Full wwPDB EM Validation Report

Nov 25, 2022 – 09:00 AM EST

PDB ID	:	7SQC
EMDB ID	:	EMD-25381
Title	:	Ciliary C1 central pair apparatus isolated from Chlamydomonas reinhardtii
Authors	:	Gui, M.; Wang, X.; Dutcher, S.K.; Brown, A.; Zhang, R.
Deposited on	:	2021-11-05
Resolution	:	3.80 Å(reported)

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

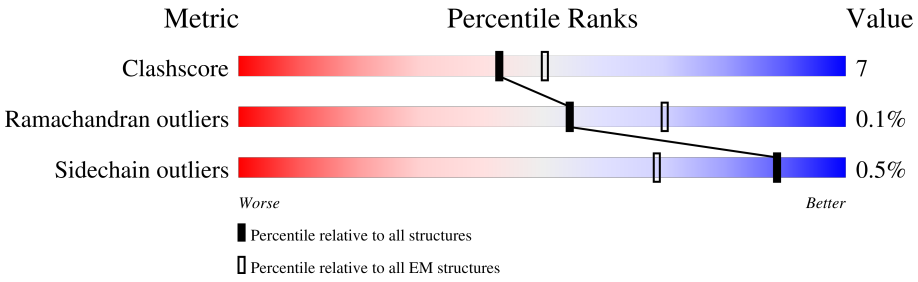
EMDB validation analysis	:	0.0.1.dev43
Mogul	:	1.8.5 (274361), CSD as541be (2020)
MolProbity	:	4.02b-467
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ	:	FAILED
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.31.3

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 3.80 Å.

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



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

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5%

Mol	Chain	Length	Quality of chain
1	0A	93	61% · 38%
1	0B	93	67% · 32%
1	0C	93	62% 38%
1	0D	93	68% 32%
1	0E	93	62% 38%
1	0F	93	68% 32%
1	0G	93	61% · 38%
1	0H	93	67% · 32%
1	0I	93	67% 33%

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Mol	Chain	Length	Quality of chain
1	0J	93	60% 40%
1	0K	93	68% 32%
1	0L	93	58% 42%
2	1A	2540	55% 9% 35%
2	1B	2540	57% 9% 35%
2	1C	2540	57% 10% 33%
2	1D	2540	56% 10% 34%
3	1F	507	44% 56%
3	1G	507	32% 68%
3	1H	507	36% 64%
3	1I	507	20% 80%
3	1J	507	66% 33%
3	1K	507	68% 32%
3	1L	507	67% 33%
3	1M	507	68% 32%
3	1N	507	66% 33%
3	1O	507	68% 32%
3	1P	507	67% 33%
3	1Q	507	68% 32%
3	1R	507	66% 33%
3	1S	507	68% 32%
3	1T	507	67% 33%
3	1U	507	68% 32%
3	1V	507	43% 57%
3	1W	507	52% 48%

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Mol	Chain	Length	Quality of chain
3	1X	507	45% 55%
3	1Y	507	52% 48%
4	2A	2215	31% 66%
4	2B	2215	31% 66%
5	2E	739	31% 69%
5	2F	739	31% 68%
6	2H	945	41% 57%
6	2I	945	42% 57%
7	2K	286	86% 13%
7	2L	286	88% 10%
7	2M	286	88% 10%
7	2N	286	91% 8%
7	2O	286	87% 12%
7	2P	286	64% 35%
7	2Q	286	14% 86%
8	3A	427	40% 59%
8	3B	427	41% 59%
8	3C	427	40% 59%
8	3D	427	39% 61%
9	3K	306	83% 16%
9	3L	306	76% 21%
9	3M	306	81% 17%
9	3N	306	79% 20%
9	3O	306	83% 16%
9	3P	306	82% 17%

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Mol	Chain	Length	Quality of chain
10	4A	163	88% 12%
10	4B	163	87% 12%
10	4C	163	88% 12%
10	4D	163	88% 12%
10	4E	163	87% 12%
10	4F	163	88% 12%
10	4G	163	88% 12%
10	4H	163	87% 12%
10	4I	163	88% 12%
10	4J	163	88% 12%
10	4K	163	88% 12%
10	4L	163	88% 12%
11	5A	835	65% 34%
11	5B	835	65% 34%
11	5C	835	65% 34%
11	5D	835	65% 34%
12	6A	304	94%
12	6B	304	94%
12	6C	304	83% 17%
12	6D	304	83% 17%
13	7A	173	65% 31%
13	7B	173	75% 24%
13	7C	173	61% 7% 32%
13	7D	173	57% 41%
13	7E	173	61% 5% 35%

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Mol	Chain	Length	Quality of chain
13	7F	173	54% 5% 40%
13	7G	173	65% 31%
13	7H	173	74% 24%
13	7I	173	64% 6% 31%
13	7J	173	74% 24%
13	7K	173	64% 5% 31%
13	7L	173	68% 32%
14	8A	287	74% 12% 13%
14	8B	287	40% 7% 53%
14	8C	287	79% 15% 6%
14	8D	287	40% 6% 53%
15	9A	2301	35% 64%
15	9B	2301	35% 64%
15	9C	2301	35% 64%
15	9D	2301	35% 64%
15	9E	2301	29% 70%
15	9F	2301	29% 70%
16	A0	276	41% 7% 51%
16	A1	276	51% 11% 37%
16	A2	276	54% 8% 37%
16	A3	276	53% 10% 37%
16	A4	276	12% 87%
17	B0	795	26% 70%
17	B1	795	50% 9% 41%
17	B2	795	25% 5% 69%

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Mol	Chain	Length	Quality of chain
18	C0	1929	48% 13% 39%
18	C1	1929	53% 14% 31%
18	C2	1929	63% 15% 22%
18	C3	1929	63% 14% 23%
18	C4	1929	11% 85%
19	D0	512	74% 16% 9%
19	D1	512	69% 21% 9%
19	D2	512	77% 14% 9%
19	D3	512	70% 21% 9%
19	D4	512	75% 15% 9%
19	D5	512	72% 19% 9%
19	D6	512	76% 15% 9%
19	D7	512	70% 21% 9%
19	G0	512	71% 19% 9%
19	G1	512	68% 23% 9%
19	G2	512	73% 18% 9%
19	G3	512	70% 21% 9%
19	G4	512	72% 19% 9%
19	G5	512	72% 18% 9%
19	H0	512	72% 18% 10%
19	H1	512	69% 18% 13%
19	H2	512	75% 14% 11%
19	H3	512	73% 17% 10%
19	H4	512	75% 16% 9%
19	H5	512	70% 20% 10%

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Mol	Chain	Length	Quality of chain
19	H6	512	71% 17% 11%
19	H7	512	68% 21% 11%
19	I0	512	70% 20% 10%
19	I1	512	71% 19% 9%
19	J0	512	66% 22% 12%
19	J1	512	69% 22% 9%
19	J2	512	71% 19% 9%
19	J3	512	66% 23% 10%
19	K0	512	71% 19% 9%
19	K1	512	74% 16% 9%
19	K2	512	70% 20% 9%
19	K3	512	71% 18% 10%
19	L0	512	69% 22% 9%
19	L1	512	66% 23% 9%
19	L2	512	69% 21% 9%
19	L3	512	64% 26% 9%
20	E0	446	43% 9% 47%
20	E1	446	43% 11% 46%
20	E2	446	43% 10% 48%
20	E3	446	43% 11% 45%
21	F0	4929	6% 94%
21	F1	4929	9% 90%
21	F2	4929	9% 90%
21	F3	4929	9% 90%
22	M0	971	18% 6% 76%

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Mol	Chain	Length	Quality of chain
22	M1	971	47% 11% 42%
23	N0	571	83% 13%
23	N1	571	83% 6% 11%
23	N2	571	81% 5% 13%
23	N3	571	83% 6% 11%
24	NB	451	78% 17% 5%
24	ND	451	75% 20% 5%
24	NF	451	76% 19% 5%
24	NH	451	75% 20% 5%
24	NJ	451	79% 16% 5%
24	NL	451	76% 19% 5%
24	NN	451	78% 17% 5%
24	OD	451	76% 20% 5%
24	OF	451	77% 18% 5%
24	OH	451	68% 27% 5%
24	OJ	451	77% 18% 5%
24	OL	451	75% 20% 5%
24	ON	451	75% 20% 5%
24	OP	451	74% 21% 5%
24	PD	451	75% 20% 5%
24	PF	451	77% 18% 5%
24	PH	451	74% 21% 5%
24	PJ	451	78% 17% 5%
24	PL	451	75% 19% 5%
24	PN	451	74% 21% 5%

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Mol	Chain	Length	Quality of chain
24	PP	451	72% 22% • 5%
24	QD	451	77% 18% 5%
24	QF	451	76% 19% 5%
24	QH	451	77% 20% •
24	QJ	451	75% 20% 5%
24	QL	451	77% 19% 5%
24	QN	451	79% 16% 5%
24	QP	451	80% 17% •
24	RD	451	72% 23% 5%
24	RF	451	76% 18% • 5%
24	RH	451	72% 23% 5%
24	RJ	451	76% 19% 5%
24	RL	451	71% 24% 5%
24	RN	451	78% 18% 5%
24	RP	451	75% 20% 5%
24	SB	451	80% 14% • 5%
24	SD	451	75% 21% 5%
24	SF	451	74% 21% • 5%
24	SH	451	79% 17% •
24	SJ	451	79% 16% 5%
24	SL	451	79% 17% 5%
24	SN	451	73% 22% 5%
24	SP	451	75% 20% •
24	TB	451	80% 15% 5%
24	TD	451	78% 17% 5%

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Mol	Chain	Length	Quality of chain
24	TF	451	76% 19% 5%
24	TH	451	75% 21%
24	TJ	451	75% 20% 5%
24	TL	451	74% 21% 5%
24	TN	451	78% 17% 5%
24	TP	451	78% 18%
24	UB	451	85% 12%
24	UD	451	75% 21%
24	UF	451	78% 19%
24	UH	451	77% 18%
24	UJ	451	82% 16%
24	UL	451	74% 21%
24	UN	451	76% 21%
24	UP	451	76% 19%
24	VB	451	75% 20% 5%
24	VD	451	76% 19% 5%
24	VF	451	78% 17% 5%
24	VH	451	77% 19%
24	VJ	451	77% 18% 5%
24	VL	451	77% 19% 5%
24	VN	451	77% 18% 5%
24	VP	451	76% 19% 5%
24	WB	451	77% 20%
24	WD	451	74% 21% 5%
24	WF	451	80% 18%

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Mol	Chain	Length	Quality of chain
24	WH	451	74% 22%
24	WJ	451	77% 19%
24	WL	451	74% 20%
24	WN	451	75% 22%
24	XB	451	75% 20% 5%
24	XD	451	74% 21% 5%
24	XF	451	76% 19% 5%
24	XH	451	81% 13% 5%
24	XJ	451	78% 17% 5%
24	XL	451	78% 17% 5%
24	XN	451	73% 22% 5%
24	YB	451	81% 14% 5%
24	YD	451	69% 26% 5%
24	YF	451	80% 15% 5%
24	YH	451	76% 19% 5%
24	YJ	451	77% 18% 5%
24	YL	451	72% 23% 5%
24	YN	451	78% 16% 5%
24	YP	451	79% 16% 5%
24	ZB	451	75% 19% 5%
24	ZD	451	75% 20% 5%
24	ZF	451	75% 20% 5%
24	ZH	451	81% 14% 5%
24	ZJ	451	78% 17% 5%
24	ZL	451	74% 21% 5%

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Mol	Chain	Length	Quality of chain
24	ZN	451	74% 21% 5%
24	ZP	451	78% 17% 5%
25	NC	443	79% 18%
25	NE	443	79% 17%
25	NG	443	75% 21%
25	NI	443	80% 16%
25	NK	443	75% 21%
25	NM	443	80% 16%
25	NO	443	73% 23%
25	OC	443	79% 17%
25	OE	443	74% 22%
25	OG	443	80% 16%
25	OI	443	70% 26%
25	OK	443	77% 19%
25	OM	443	76% 20%
25	OO	443	74% 22%
25	OQ	443	75% 22%
25	PC	443	77% 19%
25	PE	443	78% 19%
25	PG	443	77% 20%
25	PI	443	74% 22%
25	PK	443	75% 20%
25	PM	443	71% 26%
25	PO	443	72% 25%
25	PQ	443	75% 21%

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Mol	Chain	Length	Quality of chain
25	QC	443	79% 18%
25	QE	443	80% 17%
25	QG	443	76% 20%
25	QI	443	69% 27%
25	QK	443	75% 21%
25	QM	443	72% 25%
25	QO	443	72% 23%
25	QQ	443	78% 18%
25	RC	443	77% 19%
25	RE	443	72% 24%
25	RG	443	74% 23%
25	RI	443	75% 21%
25	RK	443	71% 25%
25	RM	443	73% 23%
25	RO	443	73% 23%
25	SC	443	71% 25%
25	SE	443	76% 21%
25	SG	443	77% 20%
25	SI	443	75% 21%
25	SK	443	78% 18%
25	SM	443	78% 18%
25	SO	443	76% 21%
25	TC	443	77% 19%
25	TE	443	80% 16%
25	TG	443	76% 20%

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Mol	Chain	Length	Quality of chain
25	TI	443	75% 21%
25	TK	443	75% 21%
25	TM	443	75% 21%
25	TO	443	75% 21%
25	UC	443	79% 18%
25	UE	443	74% 23%
25	UG	443	76% 20%
25	UI	443	79% 19%
25	UK	443	74% 23%
25	UM	443	76% 21%
25	UO	443	74% 22%
25	VC	443	78% 18%
25	VE	443	74% 23%
25	VG	443	78% 19%
25	VI	443	76% 21%
25	VK	443	74% 22%
25	VM	443	80% 17%
25	VO	443	75% 21%
25	WA	443	78% 19%
25	WC	443	76% 21%
25	WE	443	74% 23%
25	WG	443	72% 24%
25	WI	443	77% 20%
25	WK	443	78% 19%
25	WM	443	80% 17%

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Mol	Chain	Length	Quality of chain
25	WO	443	77% 19%
25	XA	443	81% 16%
25	XC	443	74% 23%
25	XE	443	76% 20%
25	XG	443	77% 19%
25	XI	443	78% 19%
25	XK	443	71% 25%
25	XM	443	77% 20%
25	XO	443	76% 20%
25	YC	443	78% 19%
25	YE	443	80% 16%
25	YG	443	77% 19%
25	YI	443	72% 25%
25	YK	443	78% 19%
25	YM	443	77% 20%
25	YO	443	69% 27%
25	ZC	443	78% 19%
25	ZE	443	76% 21%
25	ZG	443	78% 18%
25	ZI	443	75% 21%
25	ZK	443	77% 19%
25	ZM	443	77% 19%
25	ZO	443	74% 22%
26	O0	1940	56% 41%
26	O1	1940	32% 65%

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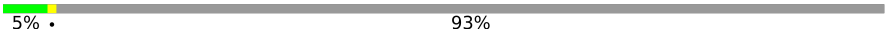
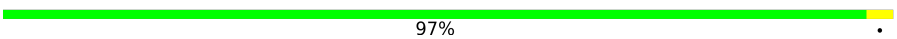
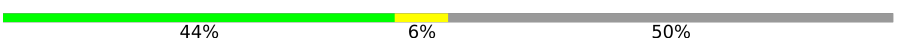
Mol	Chain	Length	Quality of chain
26	O2	1940	
27	P0	1102	
27	P1	1102	
27	P2	1102	
27	P3	1102	
28	Q0	3225	
28	Q1	3225	
29	R0	2784	
29	R1	2784	
30	S0	168	
30	S1	168	
30	S2	168	
30	S3	168	
31	S5	38	
32	T0	2939	
32	T1	2939	
32	T2	2939	
32	T3	2939	
33	U0	401	
33	U1	401	
34	V0	761	
34	V1	761	
35	W0	1638	
35	W1	1638	
36	W3	68	

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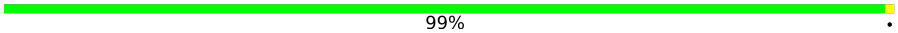
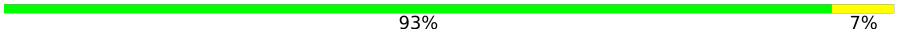
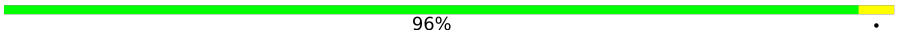
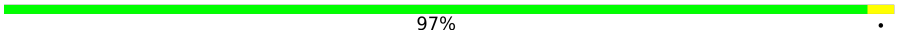
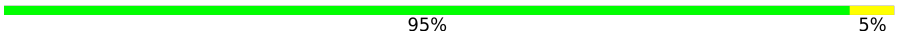
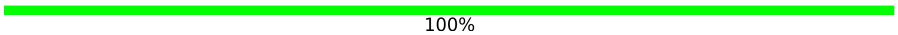
Mol	Chain	Length	Quality of chain
36	W4	68	
36	W5	68	
36	W6	68	
37	W7	149	
37	W9	149	
38	W8	51	
39	X0	1138	
39	X1	1138	
39	X2	1138	
39	X3	1138	
40	Y0	477	
40	Y1	477	
40	Y2	477	
40	Y3	477	
40	Y4	477	
40	Y5	477	
40	Y6	477	
40	Y7	477	
41	Z0	651	
41	Z1	651	
41	Z2	651	
41	Z3	651	

2 Entry composition (i)

There are 46 unique types of molecules in this entry. The entry contains 1218816 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Flagellar associated protein.

Mol	Chain	Residues	Atoms				AltConf	Trace
1	0A	58	Total 287	C 171	N 58	O 58	0	0
1	0B	63	Total 312	C 186	N 63	O 63	0	0
1	0C	58	Total 287	C 171	N 58	O 58	0	0
1	0D	63	Total 312	C 186	N 63	O 63	0	0
1	0E	58	Total 287	C 171	N 58	O 58	0	0
1	0F	63	Total 312	C 186	N 63	O 63	0	0
1	0G	58	Total 287	C 171	N 58	O 58	0	0
1	0H	63	Total 312	C 186	N 63	O 63	0	0
1	0I	62	Total 308	C 184	N 62	O 62	0	0
1	0J	56	Total 278	C 166	N 56	O 56	0	0
1	0K	63	Total 312	C 186	N 63	O 63	0	0
1	0L	54	Total 268	C 160	N 54	O 54	0	0

- Molecule 2 is a protein called FAP42.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	1A	1639	Total 10474	C 6458	N 1958	O 2021	S 37	0	0
2	1B	1660	Total 10580	C 6522	N 1979	O 2042	S 37	0	0
2	1C	1700	Total 10775	C 6637	N 2019	O 2082	S 37	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	1D	1686	Total	C	N	O	S	0	0
			10707	6597	2005	2068	37		

- Molecule 3 is a protein called FAP7.

Mol	Chain	Residues	Atoms				AltConf	Trace
3	1F	224	Total	C	N	O	0	0
			1110	662	224	224		
3	1G	162	Total	C	N	O	0	0
			800	476	162	162		
3	1H	181	Total	C	N	O	0	0
			898	536	181	181		
3	1I	99	Total	C	N	O	0	0
			489	291	99	99		
3	1J	338	Total	C	N	O	0	0
			1673	997	338	338		
3	1K	344	Total	C	N	O	0	0
			1704	1016	344	344		
3	1L	338	Total	C	N	O	0	0
			1673	997	338	338		
3	1M	344	Total	C	N	O	0	0
			1704	1016	344	344		
3	1N	338	Total	C	N	O	0	0
			1673	997	338	338		
3	1O	344	Total	C	N	O	0	0
			1704	1016	344	344		
3	1P	338	Total	C	N	O	0	0
			1673	997	338	338		
3	1Q	344	Total	C	N	O	0	0
			1704	1016	344	344		
3	1R	338	Total	C	N	O	0	0
			1673	997	338	338		
3	1S	344	Total	C	N	O	0	0
			1704	1016	344	344		
3	1T	338	Total	C	N	O	0	0
			1673	997	338	338		
3	1U	344	Total	C	N	O	0	0
			1704	1016	344	344		
3	1V	218	Total	C	N	O	0	0
			1078	642	218	218		
3	1W	266	Total	C	N	O	0	0
			1320	788	266	266		

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Mol	Chain	Residues	Atoms				AltConf	Trace
3	1X	229	Total 1133	C 675	N 229	O 229	0	0
3	1Y	263	Total 1305	C 779	N 263	O 263	0	0

- Molecule 4 is a protein called FAP81.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	2A	744	Total 4347	C 2640	N 859	O 838	S 10	0	0
4	2B	754	Total 4428	C 2692	N 874	O 852	S 10	0	0

- Molecule 5 is a protein called FAP216.

Mol	Chain	Residues	Atoms				AltConf	Trace
5	2E	231	Total 1144	C 682	N 231	O 231	0	0
5	2F	233	Total 1154	C 688	N 233	O 233	0	0

- Molecule 6 is a protein called FAP297.

Mol	Chain	Residues	Atoms				AltConf	Trace
6	2H	408	Total 2015	C 1199	N 408	O 408	0	0
6	2I	408	Total 2015	C 1199	N 408	O 408	0	0

- Molecule 7 is a protein called FAP114.

Mol	Chain	Residues	Atoms				AltConf	Trace
7	2K	248	Total 1232	C 736	N 248	O 248	0	0
7	2L	257	Total 1277	C 763	N 257	O 257	0	0
7	2M	256	Total 1272	C 760	N 256	O 256	0	0
7	2N	262	Total 1302	C 778	N 262	O 262	0	0
7	2O	251	Total 1247	C 745	N 251	O 251	0	0

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Mol	Chain	Residues	Atoms				AltConf	Trace
7	2P	185	Total 917	C 547	N 185	O 185	0	0
7	2Q	40	Total 200	C 120	N 40	O 40	0	0

- Molecule 8 is a protein called FAP305.

Mol	Chain	Residues	Atoms				AltConf	Trace
8	3A	175	Total 869	C 519	N 175	O 175	0	0
8	3B	175	Total 869	C 519	N 175	O 175	0	0
8	3C	175	Total 869	C 519	N 175	O 175	0	0
8	3D	167	Total 830	C 496	N 167	O 167	0	0

- Molecule 9 is a protein called FAP119.

Mol	Chain	Residues	Atoms				AltConf	Trace
9	3K	256	Total 1274	C 762	N 256	O 256	0	0
9	3L	241	Total 1199	C 717	N 241	O 241	0	0
9	3M	254	Total 1264	C 756	N 254	O 254	0	0
9	3N	244	Total 1214	C 726	N 244	O 244	0	0
9	3O	258	Total 1284	C 768	N 258	O 258	0	0
9	3P	254	Total 1264	C 756	N 254	O 254	0	0

- Molecule 10 is a protein called Calmodulin.

Mol	Chain	Residues	Atoms				AltConf	Trace
10	4A	143	Total 704	C 418	N 143	O 143	0	0
10	4B	143	Total 704	C 418	N 143	O 143	0	0
10	4C	143	Total 704	C 418	N 143	O 143	0	0

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Mol	Chain	Residues	Atoms				AltConf	Trace
10	4D	143	Total 704	C 418	N 143	O 143	0	0
10	4E	143	Total 704	C 418	N 143	O 143	0	0
10	4F	143	Total 704	C 418	N 143	O 143	0	0
10	4G	143	Total 704	C 418	N 143	O 143	0	0
10	4H	143	Total 704	C 418	N 143	O 143	0	0
10	4I	143	Total 704	C 418	N 143	O 143	0	0
10	4J	143	Total 704	C 418	N 143	O 143	0	0
10	4K	143	Total 704	C 418	N 143	O 143	0	0
10	4L	143	Total 704	C 418	N 143	O 143	0	0

- Molecule 11 is a protein called FAP101.

Mol	Chain	Residues	Atoms				AltConf	Trace
11	5A	551	Total 2713	C 1610	N 551	O 552	0	0
11	5B	551	Total 2713	C 1610	N 551	O 552	0	0
11	5C	551	Total 2713	C 1610	N 551	O 552	0	0
11	5D	551	Total 2713	C 1610	N 551	O 552	0	0

- Molecule 12 is a protein called FAP15.

Mol	Chain	Residues	Atoms				AltConf	Trace
12	6A	291	Total 1435	C 853	N 291	O 291	0	0
12	6B	291	Total 1435	C 853	N 291	O 291	0	0
12	6C	253	Total 1250	C 744	N 253	O 253	0	0
12	6D	253	Total 1250	C 744	N 253	O 253	0	0

- Molecule 13 is a protein called FAP227.

Mol	Chain	Residues	Atoms				AltConf	Trace
13	7A	119	Total	C	N	O	0	0
			574	336	119	119		
13	7B	132	Total	C	N	O	0	0
			637	373	132	132		
13	7C	118	Total	C	N	O	0	0
			567	331	118	118		
13	7D	102	Total	C	N	O	0	0
			491	287	102	102		
13	7E	113	Total	C	N	O	0	0
			544	318	113	113		
13	7F	103	Total	C	N	O	0	0
			496	290	103	103		
13	7G	119	Total	C	N	O	0	0
			574	336	119	119		
13	7H	132	Total	C	N	O	0	0
			637	373	132	132		
13	7I	120	Total	C	N	O	0	0
			579	339	120	120		
13	7J	132	Total	C	N	O	0	0
			637	373	132	132		
13	7K	119	Total	C	N	O	0	0
			574	336	119	119		
13	7L	117	Total	C	N	O	0	0
			564	330	117	117		

- Molecule 14 is a protein called FAP105.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	8A	250	Total	C	N	O	S	0	0
			1945	1180	385	374	6		
14	8B	134	Total	C	N	O	S	0	0
			1010	614	195	196	5		
14	8C	270	Total	C	N	O	S	0	0
			2082	1262	411	401	8		
14	8D	134	Total	C	N	O	S	0	0
			1010	614	195	196	5		

- Molecule 15 is a protein called PF6.

Mol	Chain	Residues	Atoms				AltConf	Trace
15	9A	827	Total	C	N	O	0	0
			4075	2421	827	827		

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Mol	Chain	Residues	Atoms				AltConf	Trace
15	9B	827	Total 4075	C 2421	N 827	O 827	0	0
15	9C	827	Total 4075	C 2421	N 827	O 827	0	0
15	9D	827	Total 4075	C 2421	N 827	O 827	0	0
15	9E	681	Total 3354	C 1992	N 681	O 681	0	0
15	9F	679	Total 3344	C 1986	N 679	O 679	0	0

- Molecule 16 is a protein called FAP219.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	A0	135	Total 1004	C 613	N 194	O 197		0	0
16	A1	173	Total 1295	C 796	N 248	O 250	S 1	0	0
16	A2	173	Total 1295	C 796	N 248	O 250	S 1	0	0
16	A3	173	Total 1295	C 796	N 248	O 250	S 1	0	0
16	A4	37	Total 284	C 178	N 53	O 52	S 1	0	0

- Molecule 17 is a protein called FAP99.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	B0	242	Total 1932	C 1159	N 396	O 373	S 4	0	0
17	B1	468	Total 3751	C 2269	N 761	O 713	S 8	0	0
17	B2	243	Total 1933	C 1166	N 395	O 368	S 4	0	0

- Molecule 18 is a protein called CPC1.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	C0	1184	Total 9027	C 5645	N 1643	O 1704	S 35	0	0
18	C1	1322	Total 10128	C 6312	N 1863	O 1912	S 41	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
18	C2	1498	Total 11519	C 7179	N 2117	O 2177	S 46	0	0
18	C3	1485	Total 11424	C 7121	N 2099	O 2158	S 46	0	0
18	C4	281	Total 2245	C 1385	N 425	O 425	S 10	0	0

- Molecule 19 is a protein called PF16.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	D0	465	Total 3315	C 2083	N 581	O 640	S 11	0	0
19	D1	465	Total 3312	C 2082	N 581	O 638	S 11	0	0
19	D2	468	Total 3330	C 2092	N 584	O 643	S 11	0	0
19	D3	468	Total 3327	C 2091	N 584	O 641	S 11	0	0
19	D4	465	Total 3315	C 2083	N 581	O 640	S 11	0	0
19	D5	468	Total 3327	C 2091	N 584	O 641	S 11	0	0
19	D6	468	Total 3330	C 2092	N 584	O 643	S 11	0	0
19	D7	468	Total 3327	C 2091	N 584	O 641	S 11	0	0
19	G0	464	Total 3309	C 2080	N 580	O 638	S 11	0	0
19	G1	466	Total 3317	C 2085	N 582	O 639	S 11	0	0
19	G2	467	Total 3324	C 2089	N 583	O 641	S 11	0	0
19	G3	466	Total 3317	C 2085	N 582	O 639	S 11	0	0
19	G4	467	Total 3324	C 2089	N 583	O 641	S 11	0	0
19	G5	466	Total 3317	C 2085	N 582	O 639	S 11	0	0
19	H0	463	Total 3301	C 2076	N 579	O 635	S 11	0	0
19	H1	445	Total 3204	C 2018	N 558	O 617	S 11	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
19	H2	456	Total	C	N	O	S	0	0
			3232	2032	565	624	11		
19	H3	461	Total	C	N	O	S	0	0
			3281	2064	574	632	11		
19	H4	466	Total	C	N	O	S	0	0
			3316	2085	582	638	11		
19	H5	462	Total	C	N	O	S	0	0
			3288	2069	575	633	11		
19	H6	454	Total	C	N	O	S	0	0
			3214	2020	563	620	11		
19	H7	455	Total	C	N	O	S	0	0
			3244	2041	567	625	11		
19	I0	459	Total	C	N	O	S	0	0
			3274	2061	572	630	11		
19	I1	466	Total	C	N	O	S	0	0
			3316	2085	582	638	11		
19	J0	453	Total	C	N	O	S	0	0
			3253	2047	569	626	11		
19	J1	466	Total	C	N	O	S	0	0
			3317	2085	582	639	11		
19	J2	464	Total	C	N	O	S	0	0
			3306	2079	580	636	11		
19	J3	461	Total	C	N	O	S	0	0
			3292	2070	577	634	11		
19	K0	467	Total	C	N	O	S	0	0
			3322	2088	583	640	11		
19	K1	467	Total	C	N	O	S	0	0
			3322	2088	583	640	11		
19	K2	467	Total	C	N	O	S	0	0
			3322	2088	583	640	11		
19	K3	461	Total	C	N	O	S	0	0
			3292	2071	577	633	11		
19	L0	468	Total	C	N	O	S	0	0
			3531	2231	606	679	15		
19	L1	465	Total	C	N	O	S	0	0
			3511	2219	602	675	15		
19	L2	465	Total	C	N	O	S	0	0
			3511	2219	602	675	15		
19	L3	468	Total	C	N	O	S	0	0
			3531	2231	606	679	15		

- Molecule 20 is a protein called FAP108.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	E0	236	Total	C	N	O	S	0	0
			1864	1181	330	347	6		
20	E1	243	Total	C	N	O	S	0	0
			1903	1209	331	357	6		
20	E2	234	Total	C	N	O	S	0	0
			1842	1169	322	345	6		
20	E3	244	Total	C	N	O	S	0	0
			1910	1214	332	358	6		

- Molecule 21 is a protein called Hydin.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	F0	308	Total	C	N	O		0	0
			1524	908	308	308			
21	F1	482	Total	C	N	O	S	0	0
			2924	1794	554	571	5		
21	F2	482	Total	C	N	O	S	0	0
			2924	1794	554	571	5		
21	F3	482	Total	C	N	O	S	0	0
			2924	1794	554	571	5		

- Molecule 22 is a protein called FAP221.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	M0	231	Total	C	N	O	S	0	0
			1761	1105	308	342	6		
22	M1	564	Total	C	N	O	S	0	0
			4307	2709	769	811	18		

- Molecule 23 is a protein called FAP194.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	N0	495	Total	C	N	O	S	0	0
			2737	1656	525	548	8		
23	N1	507	Total	C	N	O	S	0	0
			2815	1705	538	564	8		
23	N2	495	Total	C	N	O	S	0	0
			2737	1656	525	548	8		
23	N3	509	Total	C	N	O	S	0	0
			2829	1714	540	567	8		

- Molecule 24 is a protein called Tubulin alpha.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	NB	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	ND	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	NF	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	NH	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	NJ	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	NL	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	NN	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	OD	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	OF	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	OH	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	OJ	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	OL	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	ON	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	OP	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	PD	429	Total	C	N	O	S	0	0
			3335	2113	567	633	22		
24	PF	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	PH	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	PJ	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	PL	429	Total	C	N	O	S	0	0
			3335	2113	567	633	22		
24	PN	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	PP	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	QD	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
24	QF	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	QH	439	Total	C	N	O	S	0	0
			3399	2149	578	650	22		
24	QJ	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	QL	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	QN	429	Total	C	N	O	S	0	0
			3335	2113	567	633	22		
24	QP	439	Total	C	N	O	S	0	0
			3399	2149	578	650	22		
24	RD	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	RF	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	RH	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	RJ	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	RL	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	RN	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	RP	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	SB	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	SD	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	SF	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	SH	433	Total	C	N	O	S	0	0
			3363	2127	571	643	22		
24	SJ	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	SL	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	SN	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	SP	433	Total	C	N	O	S	0	0
			3363	2127	571	643	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
24	TB	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	TD	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	TF	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	TH	433	Total	C	N	O	S	0	0
			3363	2127	571	643	22		
24	TJ	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	TL	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	TN	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	TP	433	Total	C	N	O	S	0	0
			3363	2127	571	643	22		
24	UB	438	Total	C	N	O	S	0	0
			3393	2146	577	648	22		
24	UD	432	Total	C	N	O	S	0	0
			3355	2123	570	640	22		
24	UF	439	Total	C	N	O	S	0	0
			3399	2149	578	650	22		
24	UH	433	Total	C	N	O	S	0	0
			3359	2125	571	641	22		
24	UJ	439	Total	C	N	O	S	0	0
			3399	2149	578	650	22		
24	UL	432	Total	C	N	O	S	0	0
			3353	2122	570	639	22		
24	UN	439	Total	C	N	O	S	0	0
			3399	2149	578	650	22		
24	UP	431	Total	C	N	O	S	0	0
			3349	2120	569	638	22		
24	VB	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	VD	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	VF	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	VH	433	Total	C	N	O	S	0	0
			3363	2127	571	643	22		
24	VJ	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
24	VL	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	VN	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	VP	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	WB	439	Total	C	N	O	S	0	0
			3399	2149	578	650	22		
24	WD	430	Total	C	N	O	S	0	0
			3343	2117	568	636	22		
24	WF	439	Total	C	N	O	S	0	0
			3399	2149	578	650	22		
24	WH	434	Total	C	N	O	S	0	0
			3367	2129	572	644	22		
24	WJ	438	Total	C	N	O	S	0	0
			3393	2146	577	648	22		
24	WL	431	Total	C	N	O	S	0	0
			3349	2120	569	638	22		
24	WN	439	Total	C	N	O	S	0	0
			3399	2149	578	650	22		
24	XB	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	XD	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	XF	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	XH	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	XJ	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	XL	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	XN	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	YB	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	YD	429	Total	C	N	O	S	0	0
			3335	2113	567	633	22		
24	YF	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	YH	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
24	YJ	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	YL	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	YN	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	YP	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	ZB	429	Total	C	N	O	S	0	0
			3333	2112	567	632	22		
24	ZD	429	Total	C	N	O	S	0	0
			3333	2112	567	632	22		
24	ZF	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	ZH	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	ZJ	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	ZL	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	ZN	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		
24	ZP	430	Total	C	N	O	S	0	0
			3341	2116	568	635	22		

- Molecule 25 is a protein called Tubulin beta.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	NC	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	NE	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	NG	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	NI	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	NK	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	NM	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	NO	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		

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Mol	Chain	Residues	Atoms					AltConf	Trace
25	OC	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	OE	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	OG	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	OI	429	Total	C	N	O	S	0	0
			3365	2113	577	645	30		
25	OK	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	OM	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	OO	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	OQ	429	Total	C	N	O	S	0	0
			3365	2113	577	645	30		
25	PC	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	PE	429	Total	C	N	O	S	0	0
			3365	2113	577	645	30		
25	PG	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	PI	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	PK	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	PM	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	PO	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	PQ	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	QC	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	QE	429	Total	C	N	O	S	0	0
			3365	2113	577	645	30		
25	QG	428	Total	C	N	O	S	0	0
			3359	2110	576	643	30		
25	QI	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	QK	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		

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Mol	Chain	Residues	Atoms					AltConf	Trace
25	QM	429	Total	C	N	O	S	0	0
			3365	2113	577	645	30		
25	QO	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	QQ	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	RC	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	RE	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	RG	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	RI	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	RK	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	RM	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	RO	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	SC	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	SE	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	SG	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	SI	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	SK	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	SM	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	SO	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	TC	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	TE	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	TG	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	TI	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		

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Mol	Chain	Residues	Atoms					AltConf	Trace
25	TK	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	TM	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	TO	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	UC	432	Total	C	N	O	S	0	0
			3388	2126	580	652	30		
25	UE	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	UG	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	UI	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
25	UK	432	Total	C	N	O	S	0	0
			3388	2126	580	652	30		
25	UM	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	UO	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	VC	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	VE	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	VG	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	VI	431	Total	C	N	O	S	0	0
			3379	2121	579	649	30		
25	VK	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	VM	428	Total	C	N	O	S	0	0
			3359	2110	576	643	30		
25	VO	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	WA	430	Total	C	N	O	S	0	0
			3370	2116	578	646	30		
25	WC	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	WE	430	Total	C	N	O	S	0	0
			3370	2116	578	646	30		
25	WG	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		

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Mol	Chain	Residues	Atoms					AltConf	Trace
25	WI	430	Total	C	N	O	S	0	0
			3370	2116	578	646	30		
25	WK	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	WM	430	Total	C	N	O	S	0	0
			3370	2116	578	646	30		
25	WO	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	XA	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	XC	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	XE	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	XG	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	XI	428	Total	C	N	O	S	0	0
			3359	2110	576	643	30		
25	XK	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	XM	428	Total	C	N	O	S	0	0
			3359	2110	576	643	30		
25	XO	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	YC	428	Total	C	N	O	S	0	0
			3359	2110	576	643	30		
25	YE	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	YG	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	YI	430	Total	C	N	O	S	0	0
			3370	2116	578	646	30		
25	YK	428	Total	C	N	O	S	0	0
			3359	2110	576	643	30		
25	YM	428	Total	C	N	O	S	0	0
			3359	2110	576	643	30		
25	YO	428	Total	C	N	O	S	0	0
			3359	2110	576	643	30		
25	ZC	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	ZE	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		

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Mol	Chain	Residues	Atoms					AltConf	Trace
25	ZG	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	ZI	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	ZK	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	ZM	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		
25	ZO	427	Total	C	N	O	S	0	0
			3354	2107	575	642	30		

- Molecule 26 is a protein called FAP74.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	O0	1140	Total	C	N	O	S	0	0
			6206	3699	1262	1239	6		
26	O1	673	Total	C	N	O	S	0	0
			4290	2588	851	843	8		
26	O2	130	Total	C	N	O	S	0	0
			1002	615	185	200	2		

- Molecule 27 is a protein called FAP69.

Mol	Chain	Residues	Atoms				AltConf	Trace
27	P0	355	Total	C	N	O	0	0
			1751	1041	355	355		
27	P1	722	Total	C	N	O	0	0
			3561	2117	722	722		
27	P2	732	Total	C	N	O	0	0
			3610	2146	732	732		
27	P3	732	Total	C	N	O	0	0
			3610	2146	732	732		

- Molecule 28 is a protein called FAP54.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	Q0	2393	Total	C	N	O	S	0	0
			17935	11345	3284	3228	78		
28	Q1	2395	Total	C	N	O	S	0	0
			17945	11351	3286	3230	78		

- Molecule 29 is a protein called FAP46.

Mol	Chain	Residues	Atoms					AltConf	Trace
29	R0	2070	Total	C	N	O	S	0	0
			10914	6558	2179	2171	6		
29	R1	2080	Total	C	N	O	S	0	0
			10963	6587	2189	2181	6		

- Molecule 30 is a protein called FAP275.

Mol	Chain	Residues	Atoms					AltConf	Trace
30	S0	156	Total	C	N	O	S	0	0
			1191	736	229	222	4		
30	S1	156	Total	C	N	O	S	0	0
			1191	736	229	222	4		
30	S2	156	Total	C	N	O	S	0	0
			1191	736	229	222	4		
30	S3	153	Total	C	N	O	S	0	0
			1166	719	225	218	4		

- Molecule 31 is a protein called Unknown protein.

Mol	Chain	Residues	Atoms				AltConf	Trace
31	S5	38	Total	C	N	O	0	0
			190	114	38	38		

- Molecule 32 is a protein called FAP47.

Mol	Chain	Residues	Atoms					AltConf	Trace
32	T0	542	Total	C	N	O	S	0	0
			3339	2041	634	653	11		
32	T1	562	Total	C	N	O	S	0	0
			3434	2096	654	673	11		
32	T2	545	Total	C	N	O	S	0	0
			3355	2051	637	656	11		
32	T3	313	Total	C	N	O		0	0
			1541	915	313	313			

- Molecule 33 is a protein called FAP279.

Mol	Chain	Residues	Atoms					AltConf	Trace
33	U0	201	Total	C	N	O	S	0	0
			1643	1048	289	300	6		
33	U1	201	Total	C	N	O	S	0	0
			1643	1048	289	300	6		

- Molecule 34 is a protein called FAP266.

Mol	Chain	Residues	Atoms				AltConf	Trace
34	V0	198	Total 956	C 560	N 198	O 198	0	0
34	V1	191	Total 921	C 539	N 191	O 191	0	0

- Molecule 35 is a protein called FAP76.

Mol	Chain	Residues	Atoms				AltConf	Trace
35	W0	1056	Total 5224	C 3112	N 1056	O 1056	0	0
35	W1	962	Total 4758	C 2834	N 962	O 962	0	0

- Molecule 36 is a protein called Unknown protein.

Mol	Chain	Residues	Atoms				AltConf	Trace
36	W3	68	Total 340	C 204	N 68	O 68	0	0
36	W4	68	Total 340	C 204	N 68	O 68	0	0
36	W5	68	Total 340	C 204	N 68	O 68	0	0
36	W6	68	Total 340	C 204	N 68	O 68	0	0

- Molecule 37 is a protein called Unknown protein.

Mol	Chain	Residues	Atoms				AltConf	Trace
37	W7	149	Total 745	C 447	N 149	O 149	0	0
37	W9	149	Total 745	C 447	N 149	O 149	0	0

- Molecule 38 is a protein called Unknown protein.

Mol	Chain	Residues	Atoms				AltConf	Trace
38	W8	51	Total 255	C 153	N 51	O 51	0	0

- Molecule 39 is a protein called FAP246.

Mol	Chain	Residues	Atoms					AltConf	Trace
39	X0	813	Total	C	N	O	S	0	0
			5308	3304	1010	981	13		
39	X1	813	Total	C	N	O	S	0	0
			5308	3304	1010	981	13		
39	X2	813	Total	C	N	O	S	0	0
			5308	3304	1010	981	13		
39	X3	813	Total	C	N	O	S	0	0
			5308	3304	1010	981	13		

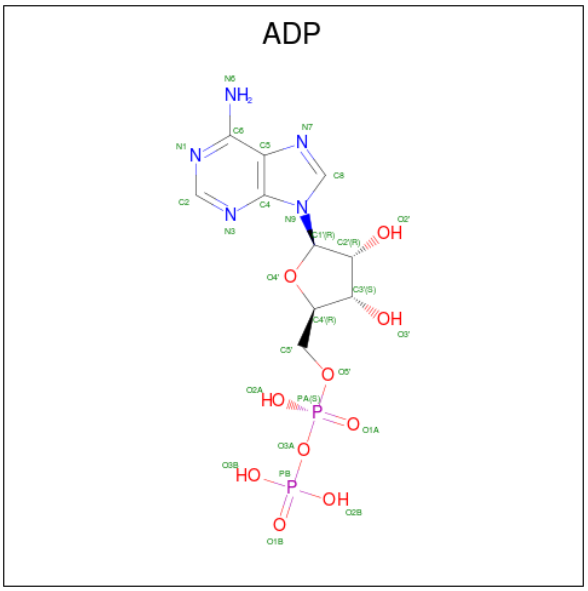
- Molecule 40 is a protein called Phosphopyruvate hydratase.

Mol	Chain	Residues	Atoms					AltConf	Trace
40	Y0	476	Total	C	N	O	S	0	0
			3607	2262	615	708	22		
40	Y1	476	Total	C	N	O	S	0	0
			3607	2262	615	708	22		
40	Y2	476	Total	C	N	O	S	0	0
			3607	2262	615	708	22		
40	Y3	476	Total	C	N	O	S	0	0
			3607	2262	615	708	22		
40	Y4	476	Total	C	N	O	S	0	0
			3607	2262	615	708	22		
40	Y5	476	Total	C	N	O	S	0	0
			3607	2262	615	708	22		
40	Y6	476	Total	C	N	O	S	0	0
			3607	2262	615	708	22		
40	Y7	476	Total	C	N	O	S	0	0
			3607	2262	615	708	22		

- Molecule 41 is a protein called Heat shock protein 70A.

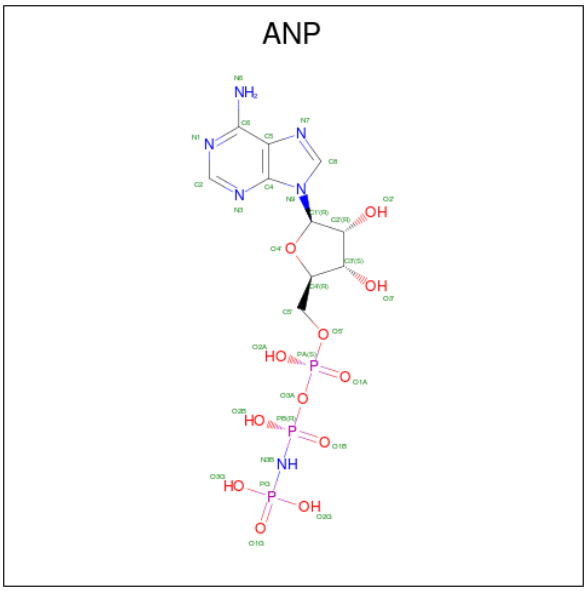
Mol	Chain	Residues	Atoms					AltConf	Trace
41	Z0	592	Total	C	N	O	S	0	0
			4599	2881	798	900	20		
41	Z1	592	Total	C	N	O	S	0	0
			4599	2881	798	900	20		
41	Z2	592	Total	C	N	O	S	0	0
			4599	2881	798	900	20		
41	Z3	592	Total	C	N	O	S	0	0
			4599	2881	798	900	20		

- Molecule 42 is ADENOSINE-5'-DIPHOSPHATE (three-letter code: ADP) (formula: $C_{10}H_{15}N_5O_{10}P_2$).



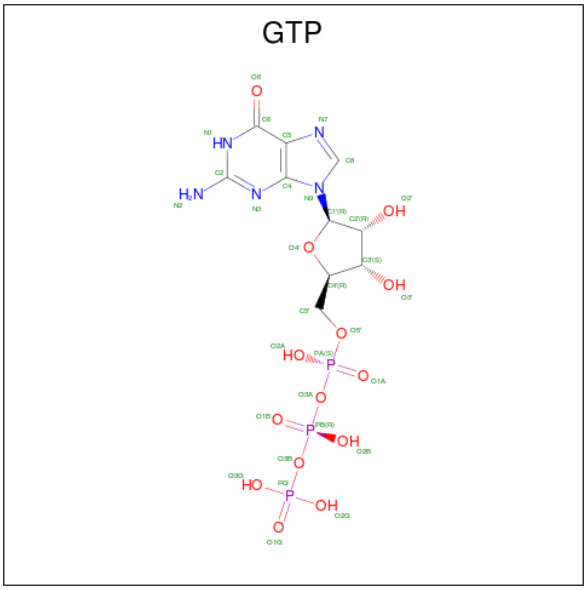
Mol	Chain	Residues	Atoms					AltConf
42	1A	1	Total	C	N	O	P	0
			27	10	5	10	2	
42	1B	1	Total	C	N	O	P	0
			27	10	5	10	2	
42	1C	1	Total	C	N	O	P	0
			27	10	5	10	2	
42	1D	1	Total	C	N	O	P	0
			27	10	5	10	2	

- Molecule 43 is PHOSPHOAMINOPHOSPHONIC ACID-ADENYLATE ESTER (three-letter code: ANP) (formula: $C_{10}H_{17}N_6O_{12}P_3$).



Mol	Chain	Residues	Atoms					AltConf
43	1A	1	Total	C	N	O	P	0
			31	10	6	12	3	
43	1B	1	Total	C	N	O	P	0
			31	10	6	12	3	
43	1C	1	Total	C	N	O	P	0
			31	10	6	12	3	
43	1D	1	Total	C	N	O	P	0
			31	10	6	12	3	
43	C0	1	Total	C	N	O	P	0
			31	10	6	12	3	
43	C1	1	Total	C	N	O	P	0
			31	10	6	12	3	
43	C2	1	Total	C	N	O	P	0
			31	10	6	12	3	
43	C3	1	Total	C	N	O	P	0
			31	10	6	12	3	

- Molecule 44 is GUANOSINE-5'-TRIPHOSPHATE (three-letter code: GTP) (formula: $C_{10}H_{16}N_5O_{14}P_3$).



Mol	Chain	Residues	Atoms					AltConf
44	NB	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	ND	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	NF	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
44	NH	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	NJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	NL	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	NN	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	OD	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	OF	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	OH	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	OJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	OL	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	ON	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	OP	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	PD	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	PF	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	PH	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	PJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	PL	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	PN	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	PP	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	QD	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	QF	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	QH	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
44	QJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	QL	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	QN	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	QP	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	RD	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	RF	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	RH	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	RJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	RL	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	RN	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	RP	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	SB	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	SD	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	SF	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	SH	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	SJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	SL	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	SN	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	SP	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	TB	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	TD	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
44	TF	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	TH	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	TJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	TL	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	TN	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	TP	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	UB	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	UD	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	UF	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	UH	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	UJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	UL	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	UN	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	UP	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	VB	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	VD	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	VF	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	VH	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	VJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	VL	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	VN	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
44	VP	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	WB	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	WD	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	WF	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	WH	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	WJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	WL	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	WN	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	XB	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	XD	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	XF	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	XH	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	XJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	XL	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	XN	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	YB	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	YD	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	YF	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	YH	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	YJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	YL	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
44	YN	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	YP	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	ZB	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	ZD	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	ZF	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	ZH	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	ZJ	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	ZL	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	ZN	1	Total	C	N	O	P	0
			32	10	5	14	3	
44	ZP	1	Total	C	N	O	P	0
			32	10	5	14	3	

- Molecule 45 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		AltConf
45	NB	1	Total	Mg	0
			1	1	
45	ND	1	Total	Mg	0
			1	1	
45	NG	1	Total	Mg	0
			1	1	
45	NH	1	Total	Mg	0
			1	1	
45	NJ	1	Total	Mg	0
			1	1	
45	NL	1	Total	Mg	0
			1	1	
45	NN	1	Total	Mg	0
			1	1	
45	OD	1	Total	Mg	0
			1	1	
45	OF	1	Total	Mg	0
			1	1	

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Mol	Chain	Residues	Atoms	AltConf
45	OH	1	Total Mg 1 1	0
45	OJ	1	Total Mg 1 1	0
45	OL	1	Total Mg 1 1	0
45	ON	1	Total Mg 1 1	0
45	OP	1	Total Mg 1 1	0
45	PD	1	Total Mg 1 1	0
45	PF	1	Total Mg 1 1	0
45	PI	1	Total Mg 1 1	0
45	PJ	1	Total Mg 1 1	0
45	PL	1	Total Mg 1 1	0
45	PN	1	Total Mg 1 1	0
45	PP	1	Total Mg 1 1	0
45	QD	1	Total Mg 1 1	0
45	QF	1	Total Mg 1 1	0
45	QH	1	Total Mg 1 1	0
45	QJ	1	Total Mg 1 1	0
45	QL	1	Total Mg 1 1	0
45	QN	1	Total Mg 1 1	0
45	QP	1	Total Mg 1 1	0
45	RD	1	Total Mg 1 1	0
45	RF	1	Total Mg 1 1	0

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Mol	Chain	Residues	Atoms	AltConf
45	RI	1	Total Mg 1 1	0
45	RJ	1	Total Mg 1 1	0
45	RL	1	Total Mg 1 1	0
45	RN	1	Total Mg 1 1	0
45	RP	1	Total Mg 1 1	0
45	SC	1	Total Mg 1 1	0
45	SD	1	Total Mg 1 1	0
45	SG	1	Total Mg 1 1	0
45	SH	1	Total Mg 1 1	0
45	SJ	1	Total Mg 1 1	0
45	SL	1	Total Mg 1 1	0
45	SO	1	Total Mg 1 1	0
45	SP	1	Total Mg 1 1	0
45	TB	1	Total Mg 1 1	0
45	TD	1	Total Mg 1 1	0
45	TG	1	Total Mg 1 1	0
45	TH	1	Total Mg 1 1	0
45	TJ	1	Total Mg 1 1	0
45	TM	1	Total Mg 1 1	0
45	TN	1	Total Mg 1 1	0
45	TP	1	Total Mg 1 1	0

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Mol	Chain	Residues	Atoms	AltConf
45	UB	1	Total Mg 1 1	0
45	UD	1	Total Mg 1 1	0
45	UF	1	Total Mg 1 1	0
45	UH	1	Total Mg 1 1	0
45	UJ	1	Total Mg 1 1	0
45	UL	1	Total Mg 1 1	0
45	UN	1	Total Mg 1 1	0
45	UP	1	Total Mg 1 1	0
45	VB	1	Total Mg 1 1	0
45	VD	1	Total Mg 1 1	0
45	VF	1	Total Mg 1 1	0
45	VH	1	Total Mg 1 1	0
45	VJ	1	Total Mg 1 1	0
45	VL	1	Total Mg 1 1	0
45	VN	1	Total Mg 1 1	0
45	VP	1	Total Mg 1 1	0
45	WB	1	Total Mg 1 1	0
45	WD	1	Total Mg 1 1	0
45	WG	1	Total Mg 1 1	0
45	WH	1	Total Mg 1 1	0
45	WJ	1	Total Mg 1 1	0

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Mol	Chain	Residues	Atoms	AltConf
45	WL	1	Total Mg 1 1	0
45	WN	1	Total Mg 1 1	0
45	XB	1	Total Mg 1 1	0
45	XD	1	Total Mg 1 1	0
45	XF	1	Total Mg 1 1	0
45	XH	1	Total Mg 1 1	0
45	XJ	1	Total Mg 1 1	0
45	XM	1	Total Mg 1 1	0
45	XN	1	Total Mg 1 1	0
45	YB	1	Total Mg 1 1	0
45	YD	1	Total Mg 1 1	0
45	YF	1	Total Mg 1 1	0
45	YH	1	Total Mg 1 1	0
45	YJ	1	Total Mg 1 1	0
45	YL	1	Total Mg 1 1	0
45	YN	1	Total Mg 1 1	0
45	YP	1	Total Mg 1 1	0
45	ZB	1	Total Mg 1 1	0
45	ZD	1	Total Mg 1 1	0
45	ZF	1	Total Mg 1 1	0
45	ZH	1	Total Mg 1 1	0

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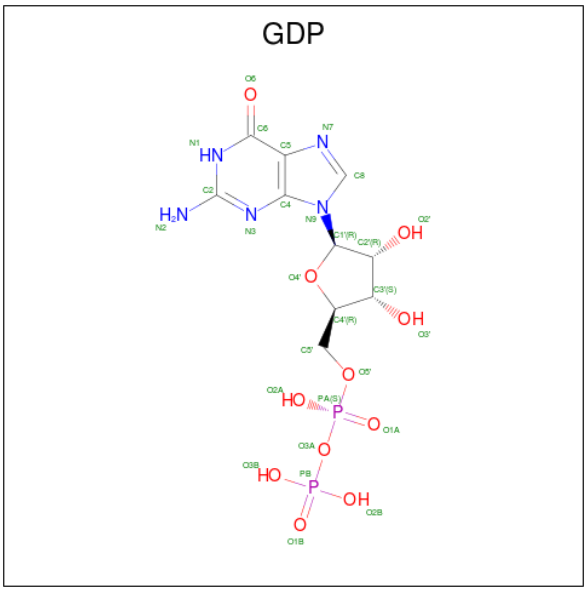
Mol	Chain	Residues	Atoms	AltConf
45	ZJ	1	Total Mg 1 1	0
45	ZL	1	Total Mg 1 1	0
45	ZN	1	Total Mg 1 1	0
45	ZP	1	Total Mg 1 1	0

- Molecule 46 is GUANOSINE-5'-DIPHOSPHATE (three-letter code: GDP) (formula: $C_{10}H_{15}N_5O_{11}P_2$).



Mol	Chain	Residues	Atoms	AltConf
46	NC	1	Total C N O P 28 10 5 11 2	0
46	NE	1	Total C N O P 28 10 5 11 2	0
46	NG	1	Total C N O P 28 10 5 11 2	0
46	NI	1	Total C N O P 28 10 5 11 2	0
46	NK	1	Total C N O P 28 10 5 11 2	0
46	NM	1	Total C N O P 28 10 5 11 2	0
46	NO	1	Total C N O P 28 10 5 11 2	0

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Mol	Chain	Residues	Atoms					AltConf
46	OC	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	OE	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	OG	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	OI	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	OK	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	OM	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	OO	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	OQ	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	PC	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	PE	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	PG	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	PI	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	PK	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	PM	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	PO	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	PQ	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	QC	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	QE	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	QG	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	QI	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	QK	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
46	QM	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	QO	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	QQ	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	RC	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	RE	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	RG	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	RI	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	RK	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	RM	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	RO	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	SC	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	SE	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	SG	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	SI	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	SK	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	SM	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	SO	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	TC	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	TE	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	TG	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	TI	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
46	TK	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	TM	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	TO	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	UC	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	UE	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	UG	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	UI	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	UK	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	UM	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	UO	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	VC	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	VE	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	VG	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	VI	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	VK	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	VM	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	VO	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	WA	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	WC	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	WE	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	WG	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
46	WI	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	WK	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	WM	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	WO	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	XA	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	XC	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	XE	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	XG	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	XI	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	XK	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	XM	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	XO	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	YC	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	YE	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	YG	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	YI	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	YK	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	YM	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	YO	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	ZC	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	ZE	1	Total	C	N	O	P	0
			28	10	5	11	2	

Continued on next page...

Continued from previous page...

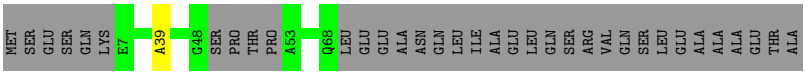
Mol	Chain	Residues	Atoms					AltConf
46	ZG	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	ZI	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	ZK	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	ZM	1	Total	C	N	O	P	0
			28	10	5	11	2	
46	ZO	1	Total	C	N	O	P	0
			28	10	5	11	2	

3 Residue-property plots (i)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

• Molecule 1: Flagellar associated protein

Chain 0A:

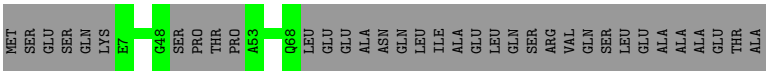


• Molecule 1: Flagellar associated protein

Chain 0B:

• Molecule 1: Flagellar associated protein

Chain 0C:

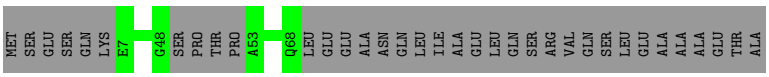


• Molecule 1: Flagellar associated protein

Chain 0D:

• Molecule 1: Flagellar associated protein

Chain 0E:

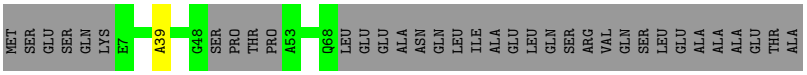


• Molecule 1: Flagellar associated protein

Chain 0F:

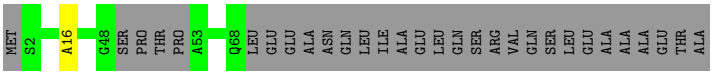
• Molecule 1: Flagellar associated protein

Chain 0G:



• Molecule 1: Flagellar associated protein

Chain 0H:



• Molecule 1: Flagellar associated protein

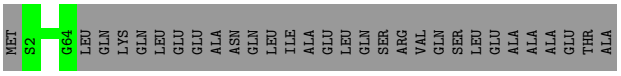
Chain 0I:

• Molecule 1: Flagellar associated protein

Chain 0J:

• Molecule 1: Flagellar associated protein

Chain 0K:

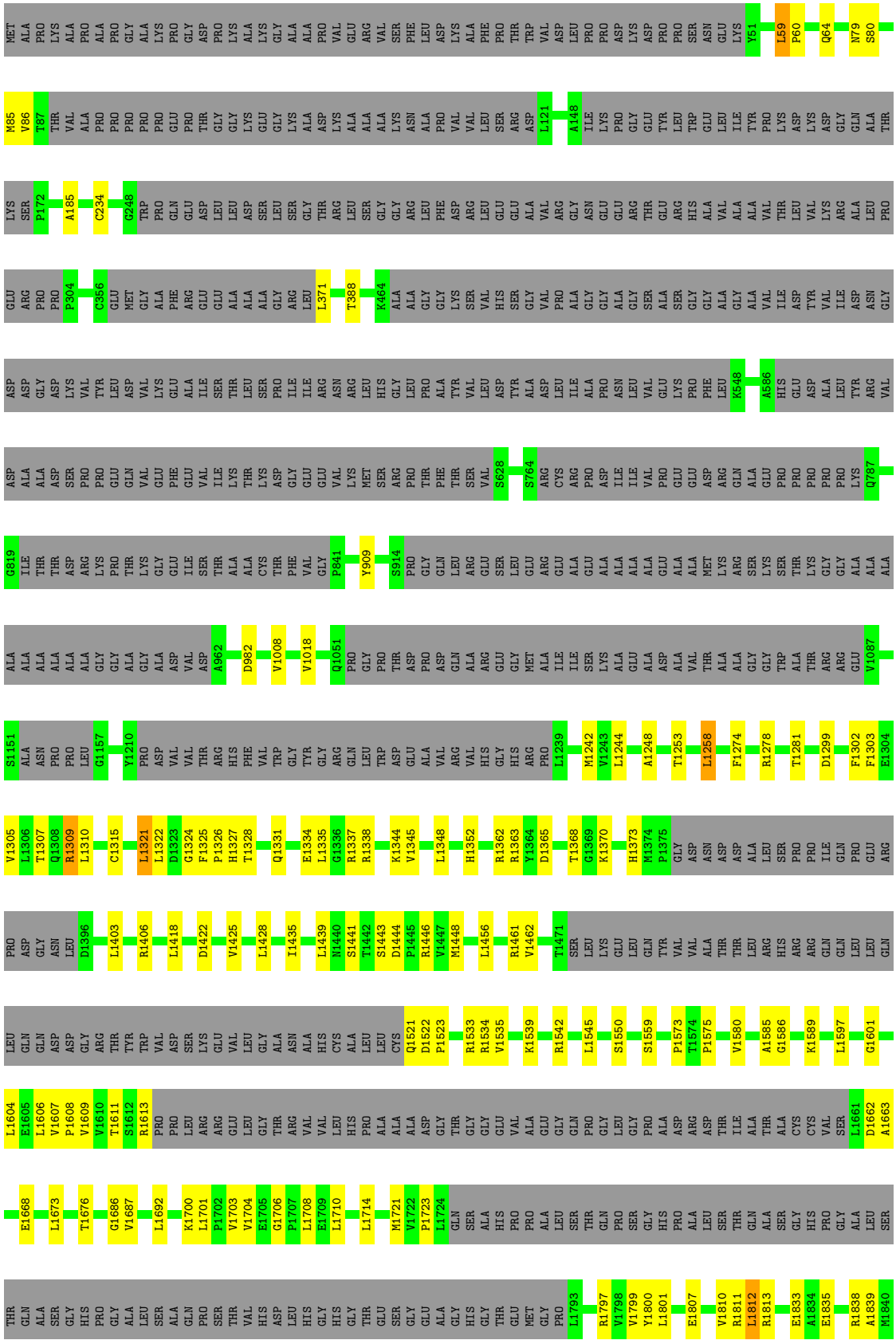


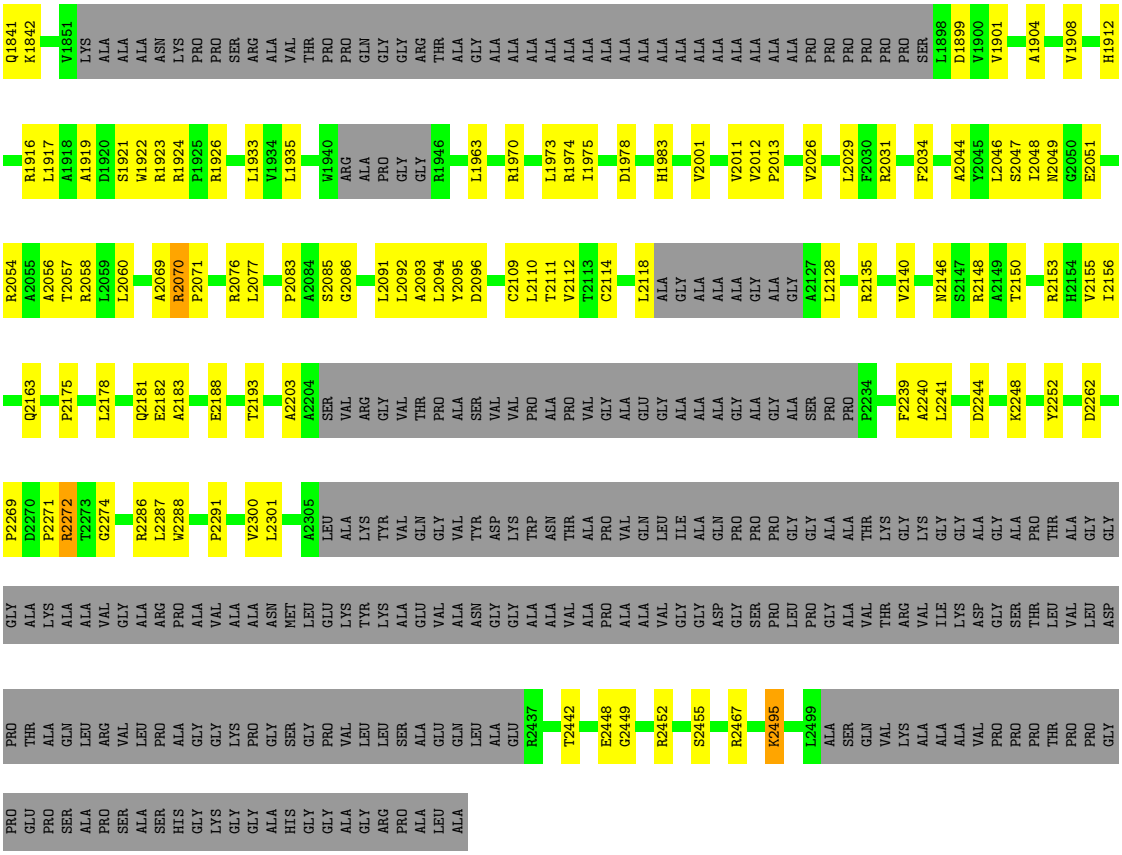
• Molecule 1: Flagellar associated protein

Chain 0L:

• Molecule 2: FAP42

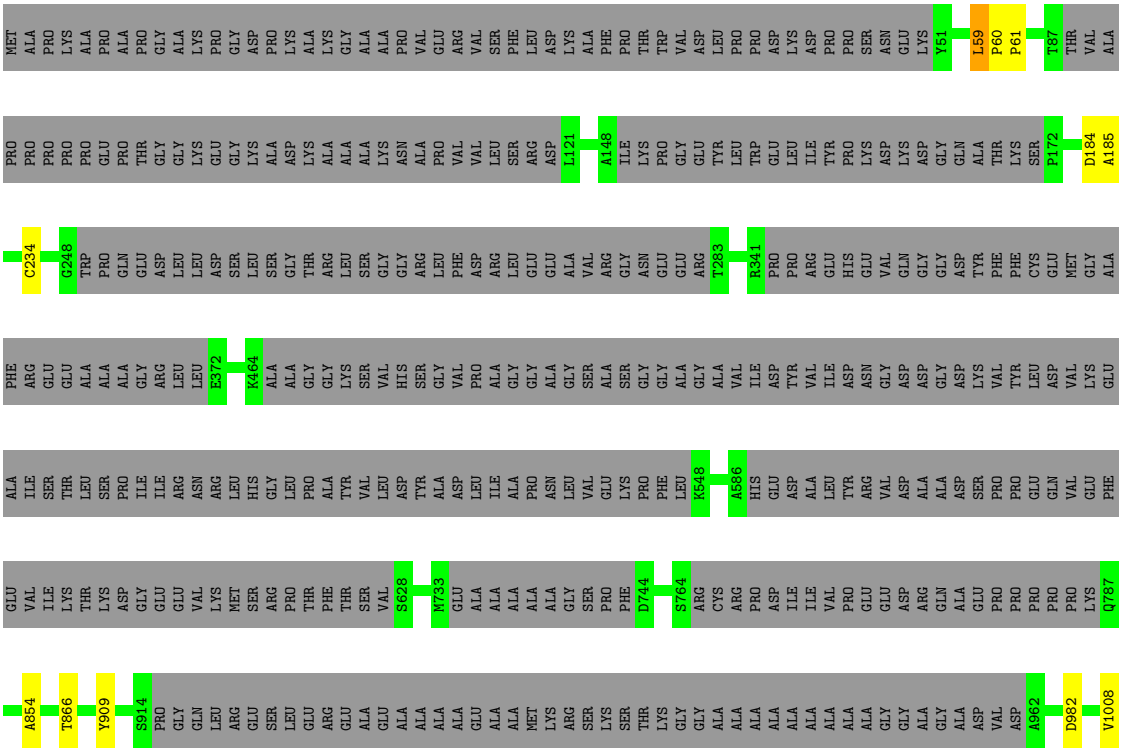
Chain 1A:

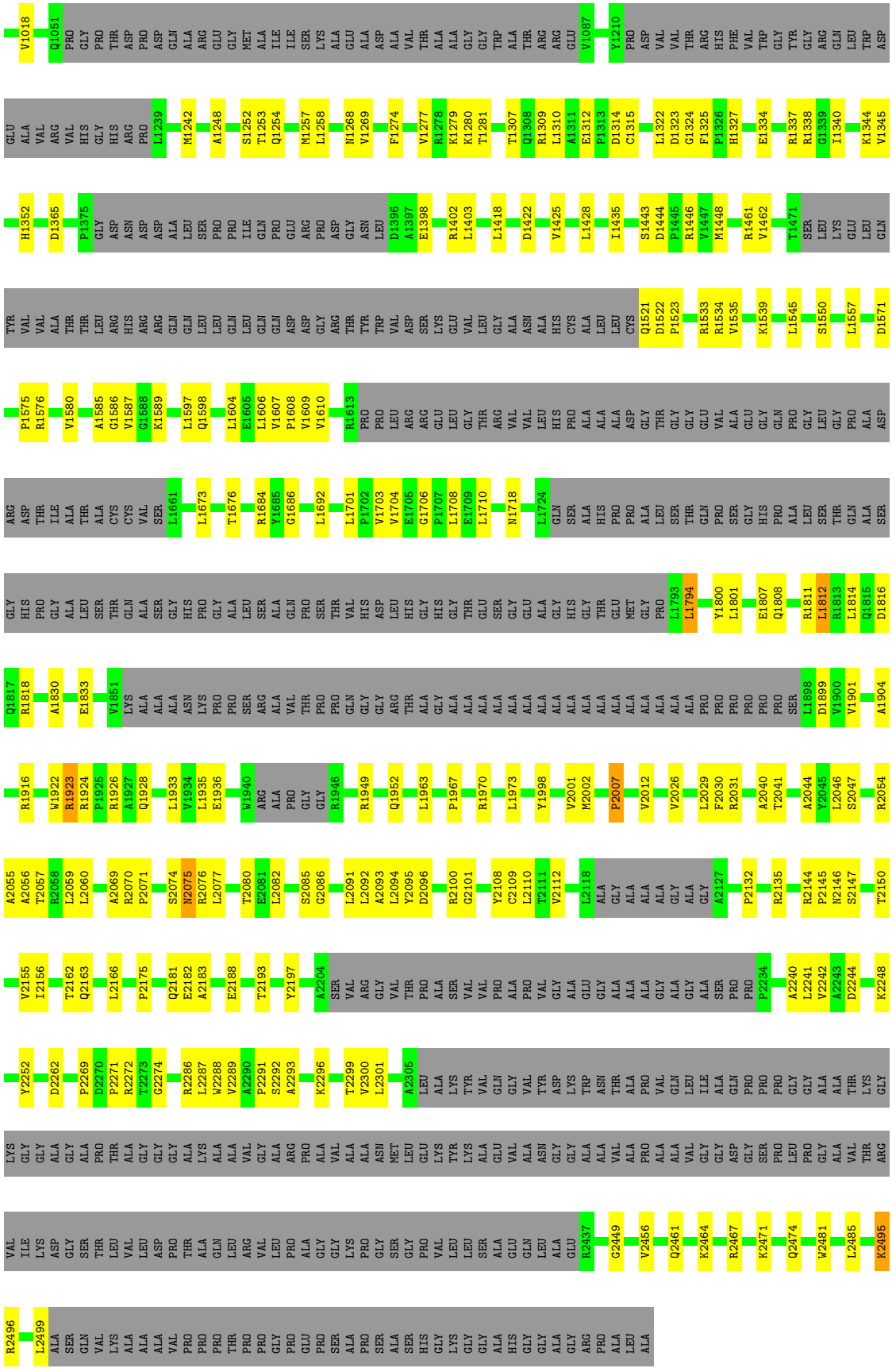




- Molecule 2: FAP42

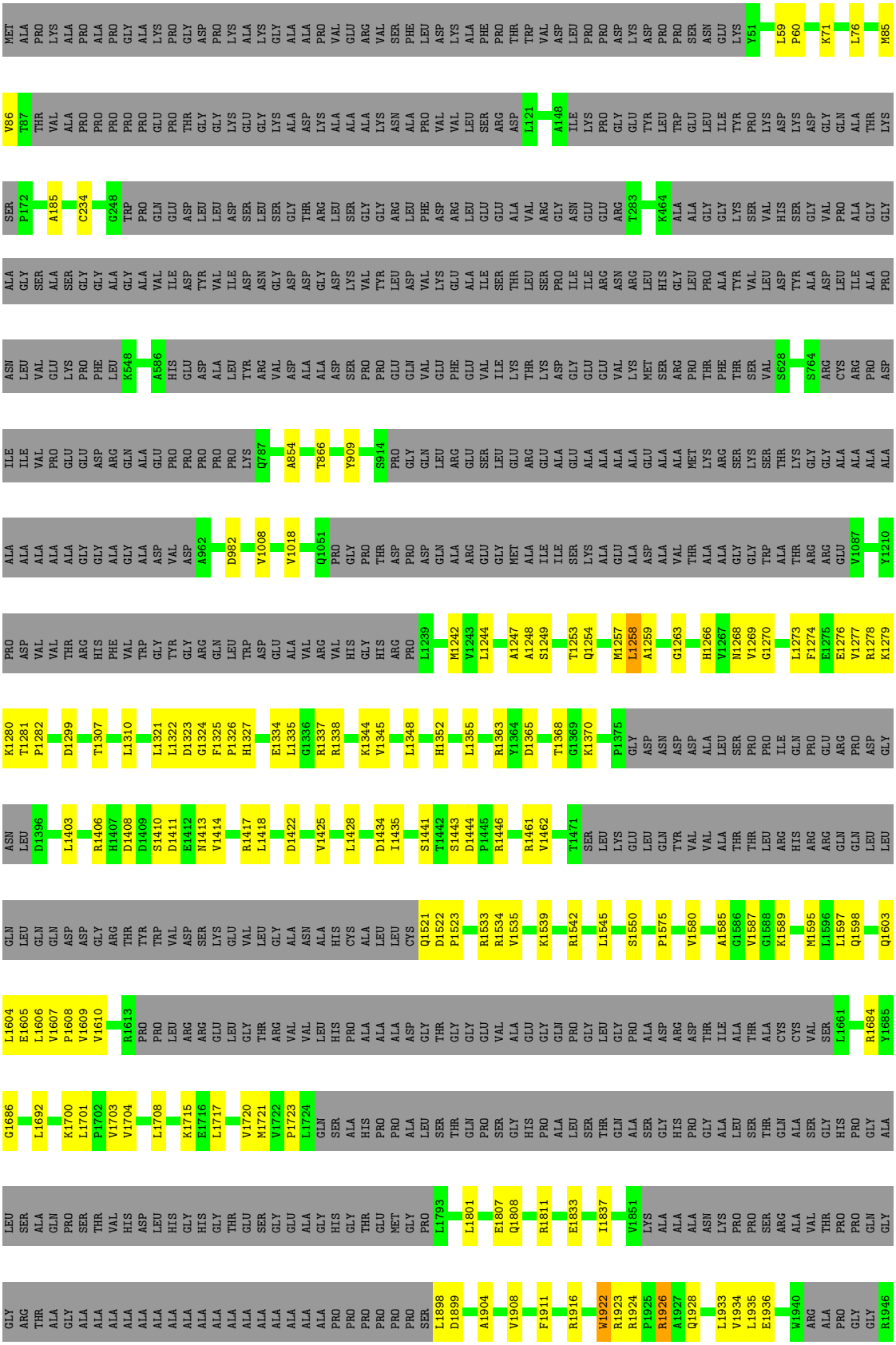
Chain 1B:

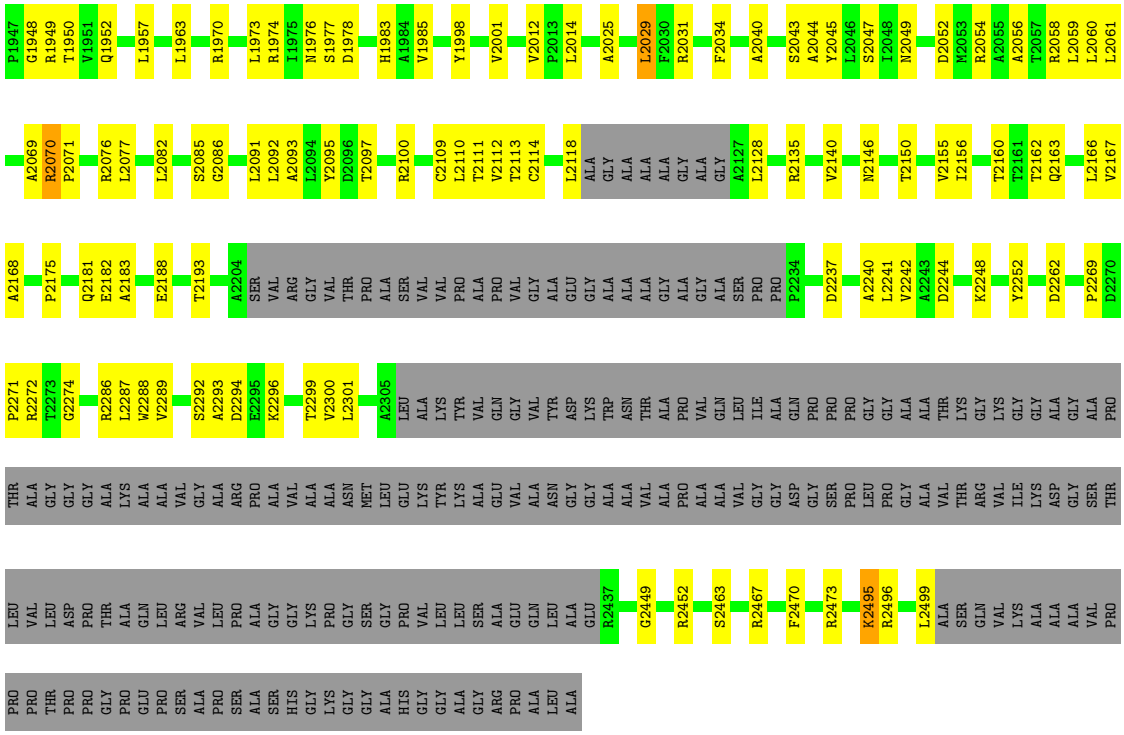




- Molecule 2: FAP42

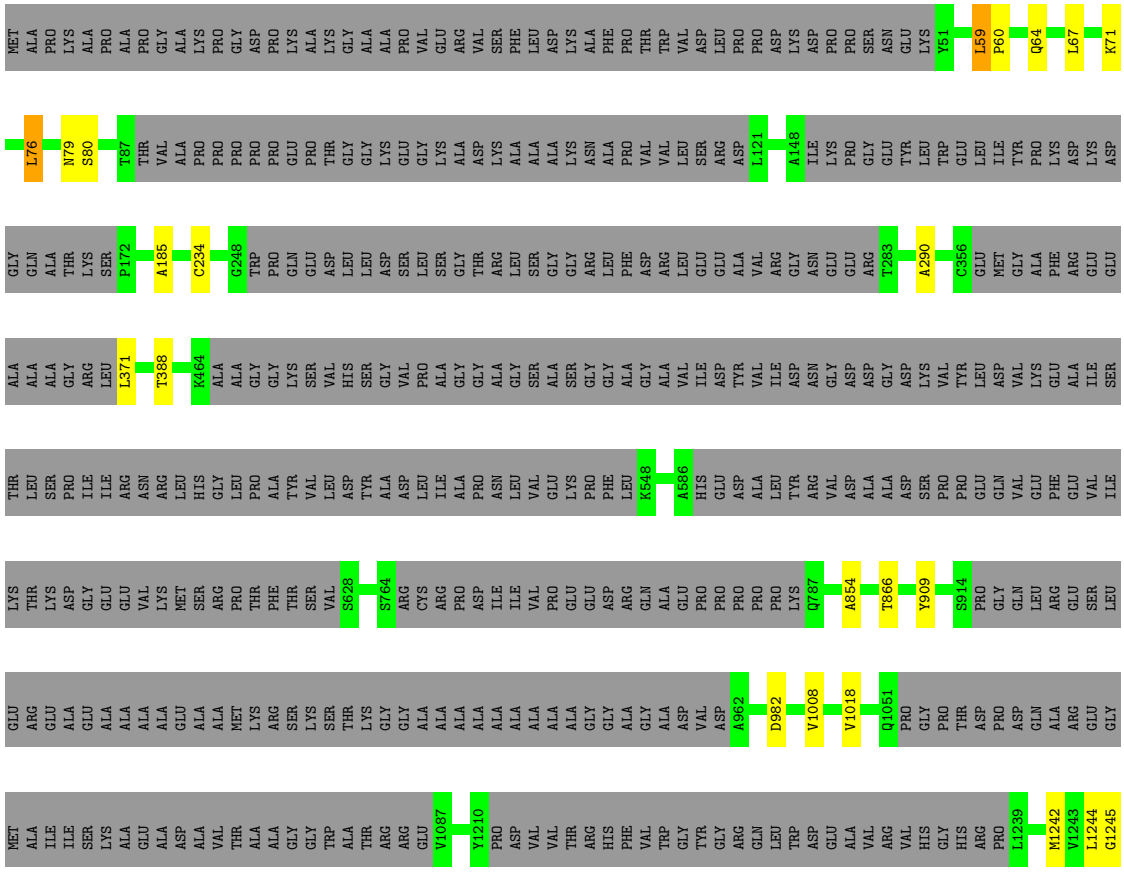
Chain 1C:

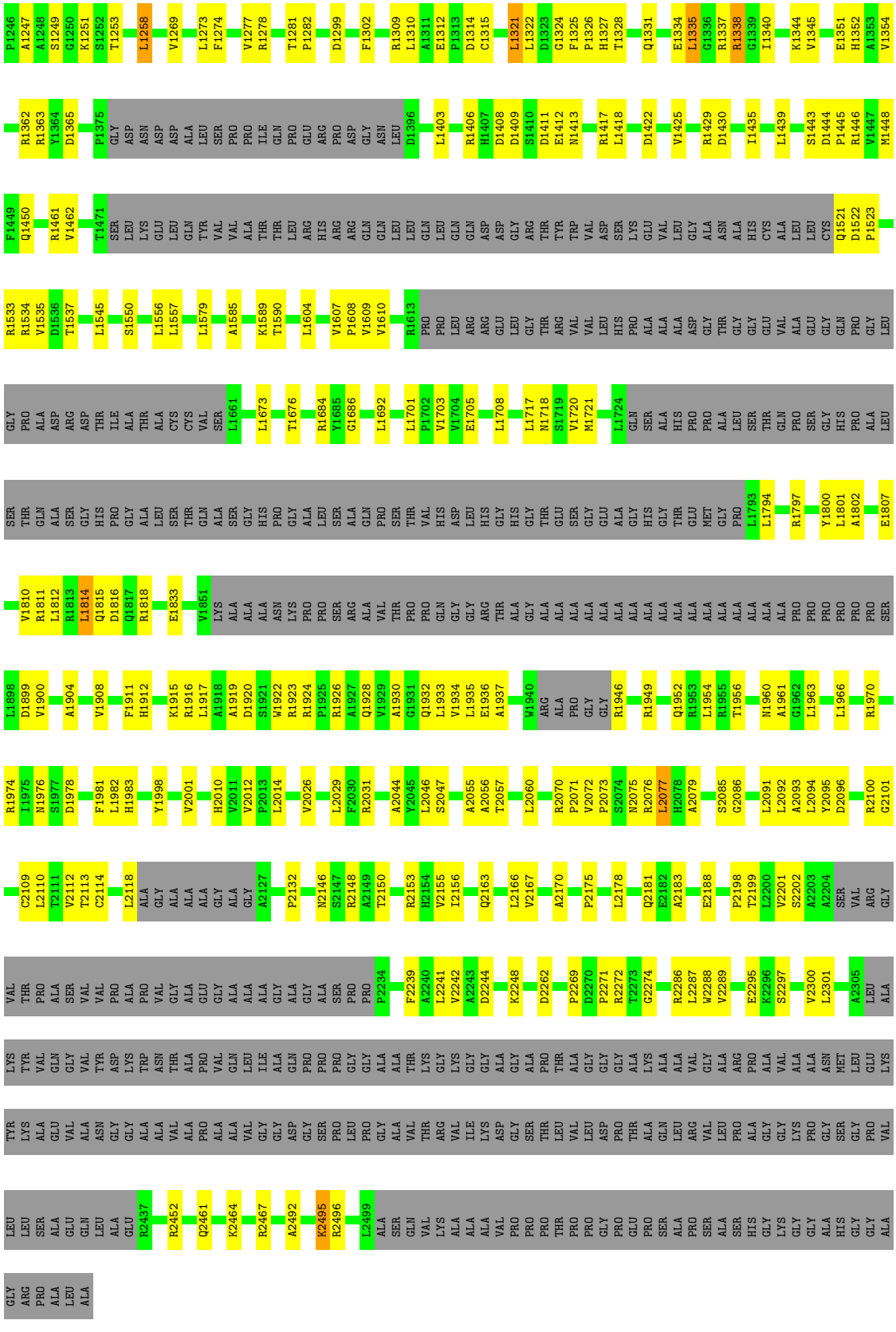




• Molecule 2: FAP42

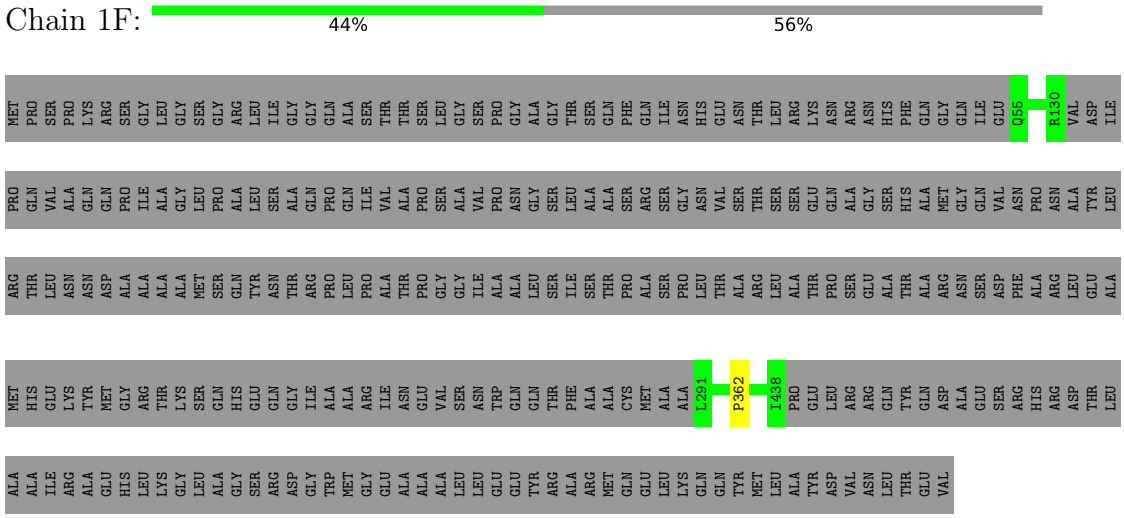
Chain 1D:





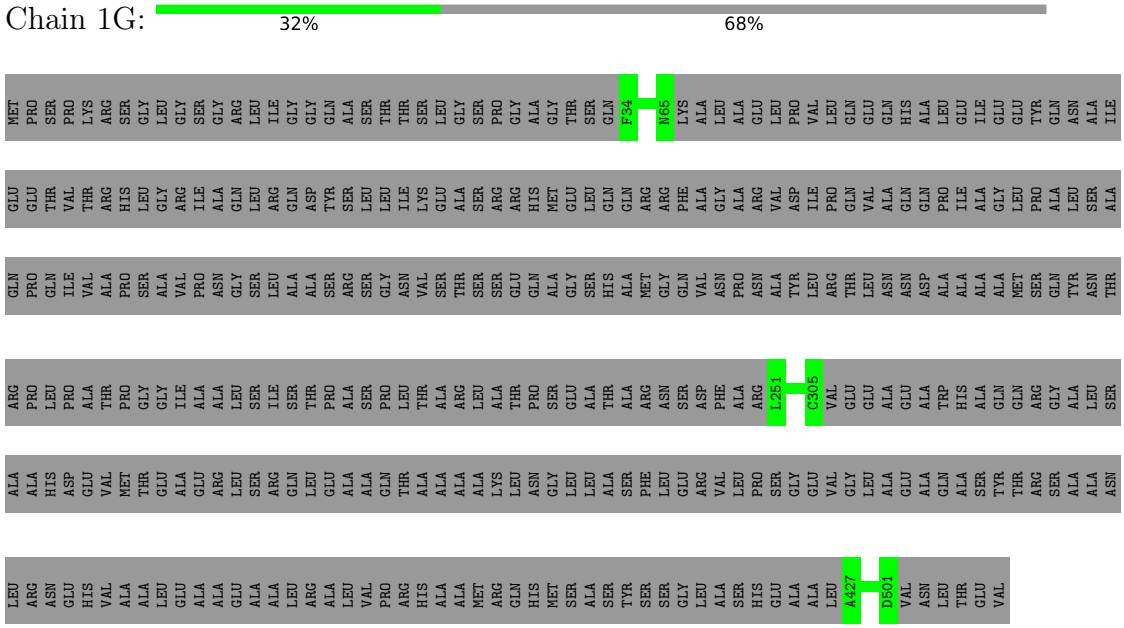
• Molecule 3: FAP7

Chain 1F:



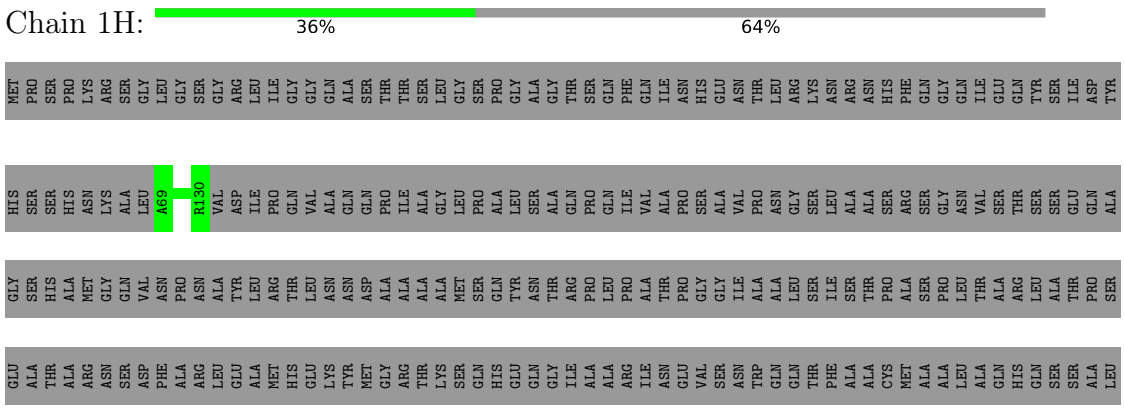
• Molecule 3: FAP7

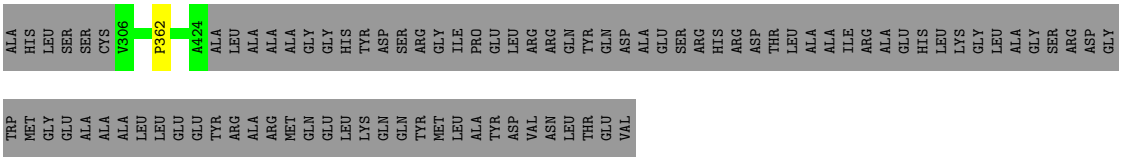
Chain 1G:



• Molecule 3: FAP7

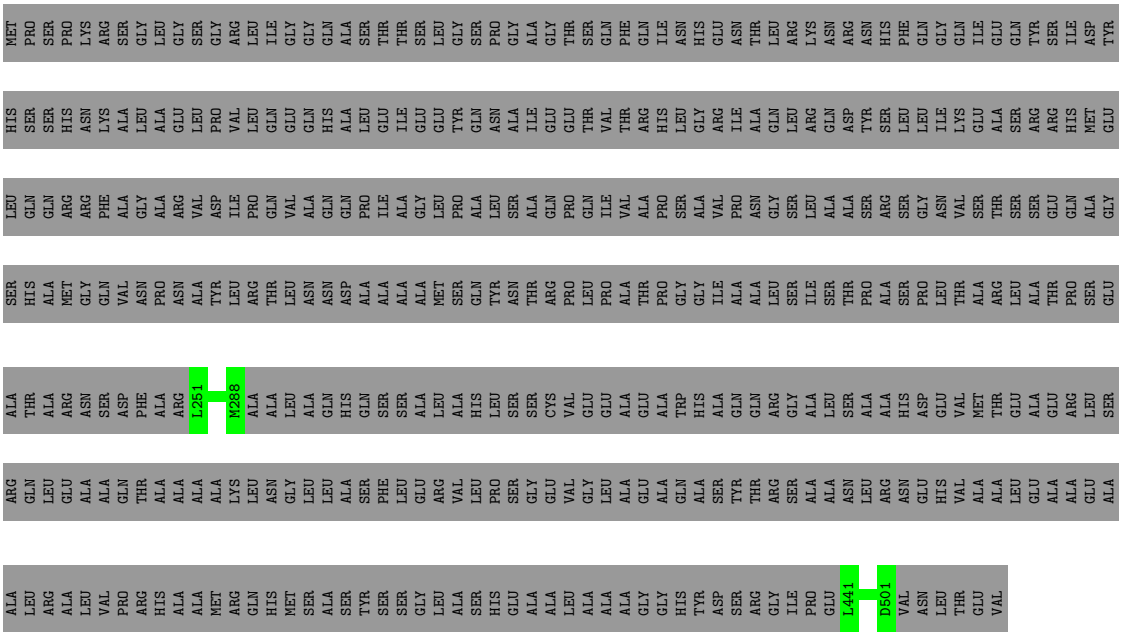
Chain 1H:





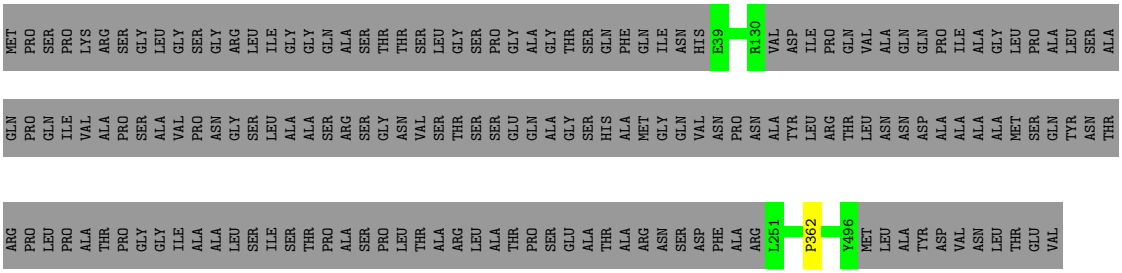
• Molecule 3: FAP7

Chain 1I:



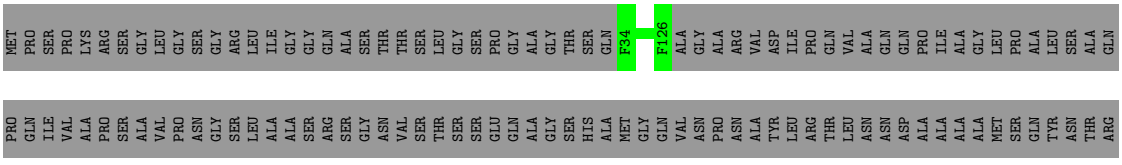
• Molecule 3: FAP7

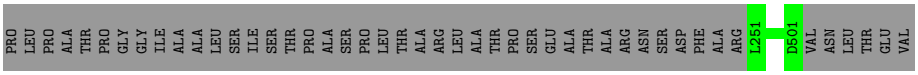
Chain 1J:



• Molecule 3: FAP7

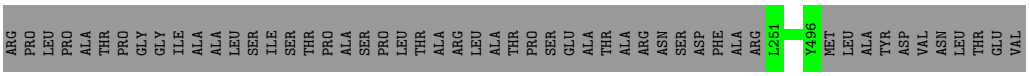
Chain 1K:





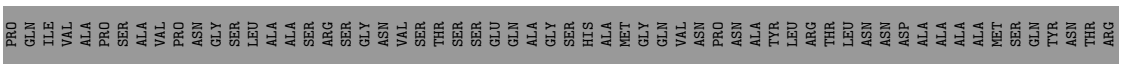
• Molecule 3: FAP7

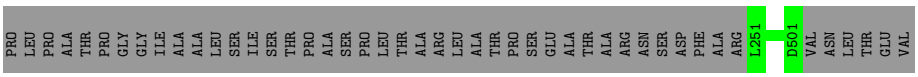
Chain 1L:



• Molecule 3: FAP7

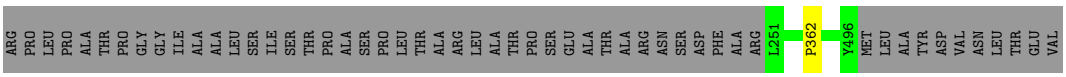
Chain 1M:





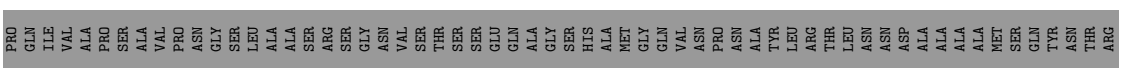
• Molecule 3: FAP7

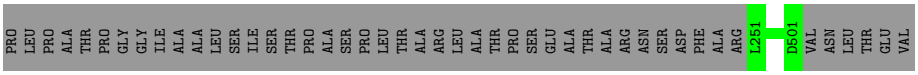
Chain 1N:



• Molecule 3: FAP7

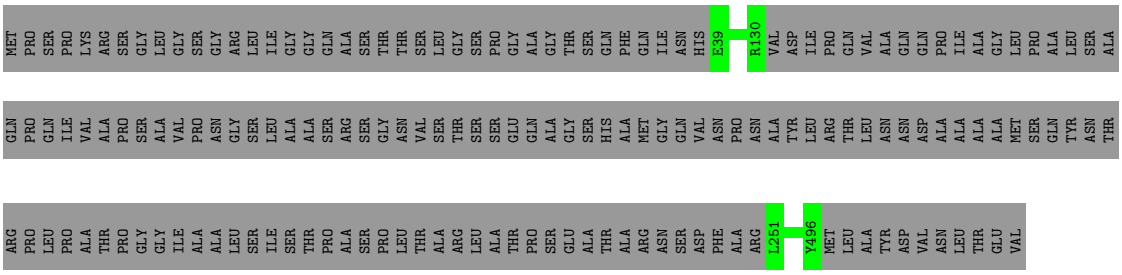
Chain 1O:





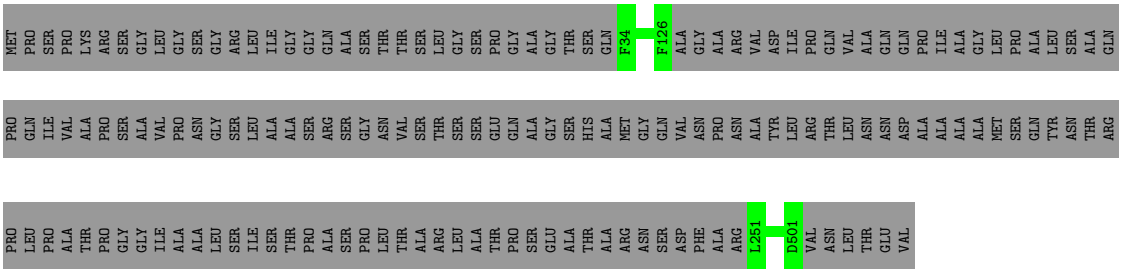
• Molecule 3: FAP7

Chain 1P:



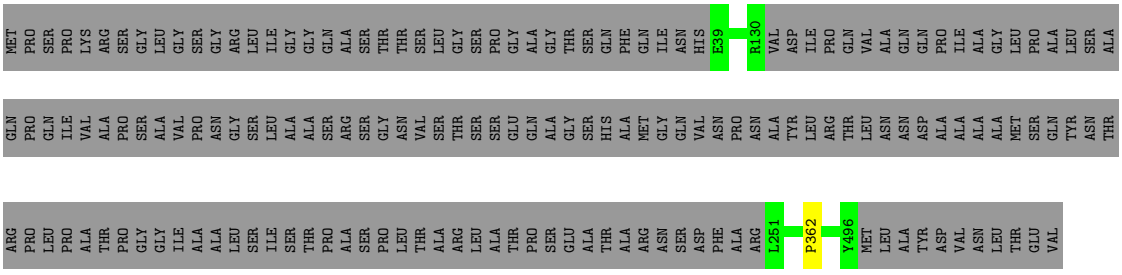
• Molecule 3: FAP7

Chain 1Q:



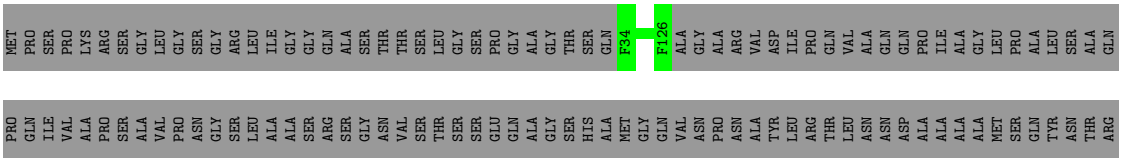
• Molecule 3: FAP7

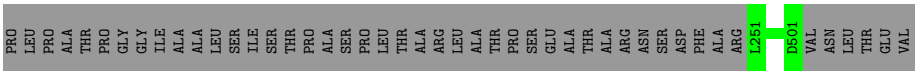
Chain 1R:



• Molecule 3: FAP7

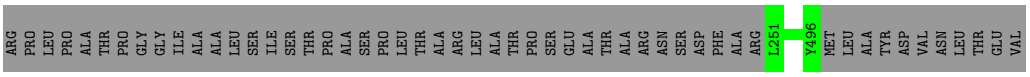
Chain 1S:





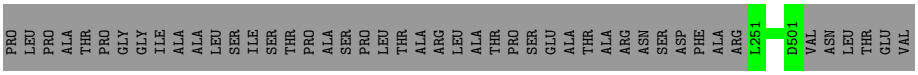
• Molecule 3: FAP7

Chain 1T:



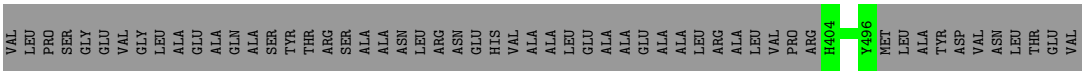
• Molecule 3: FAP7

Chain 1U:



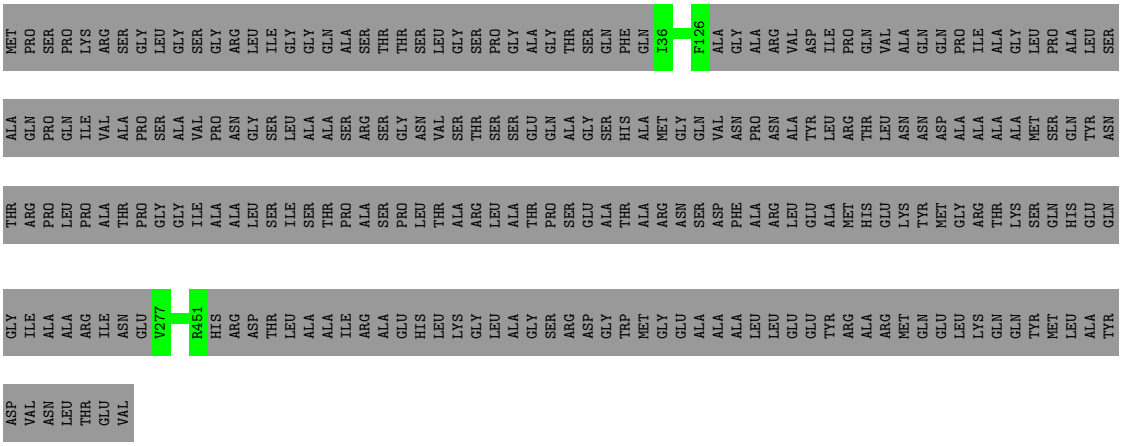
• Molecule 3: FAP7

Chain 1V:



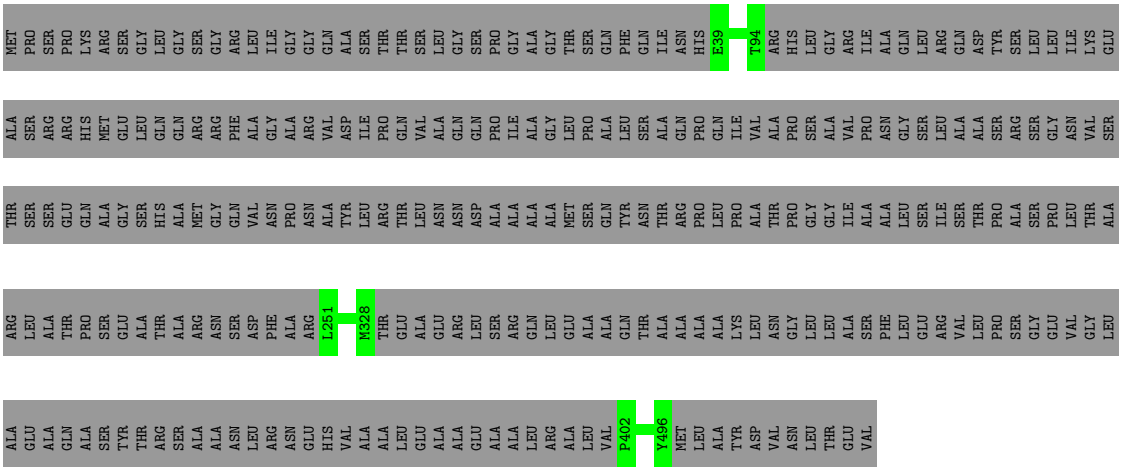
• Molecule 3: FAP7

Chain 1W:



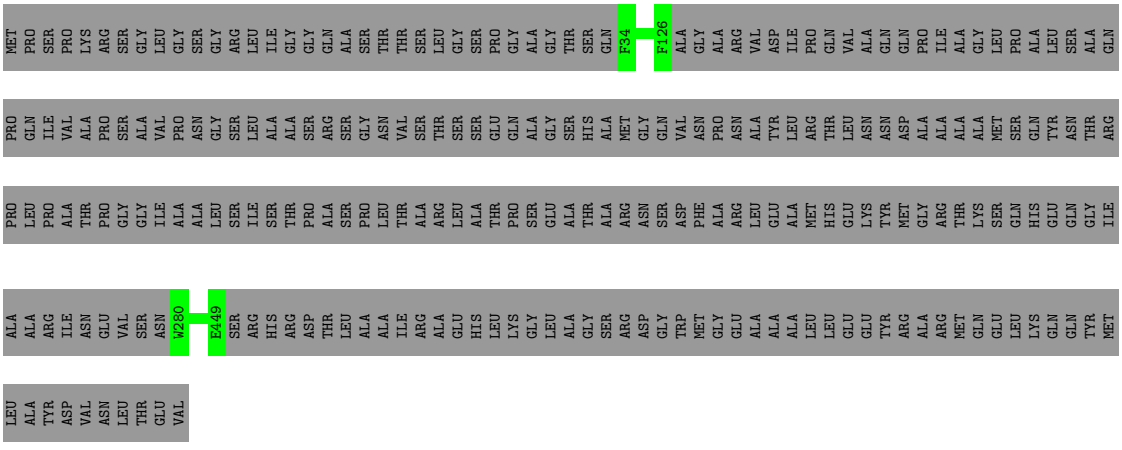
• Molecule 3: FAP7

Chain 1X:



• Molecule 3: FAP7

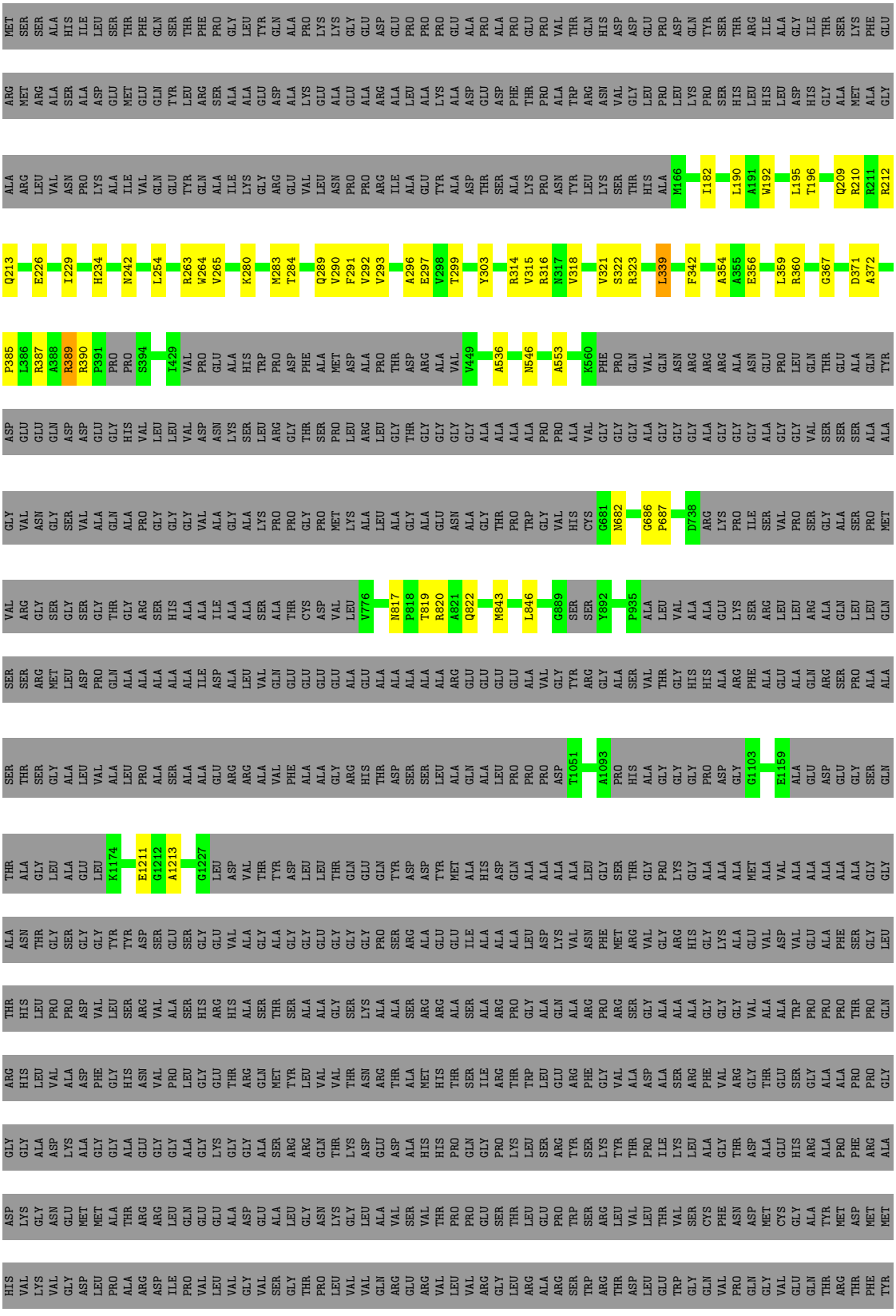
Chain 1Y:

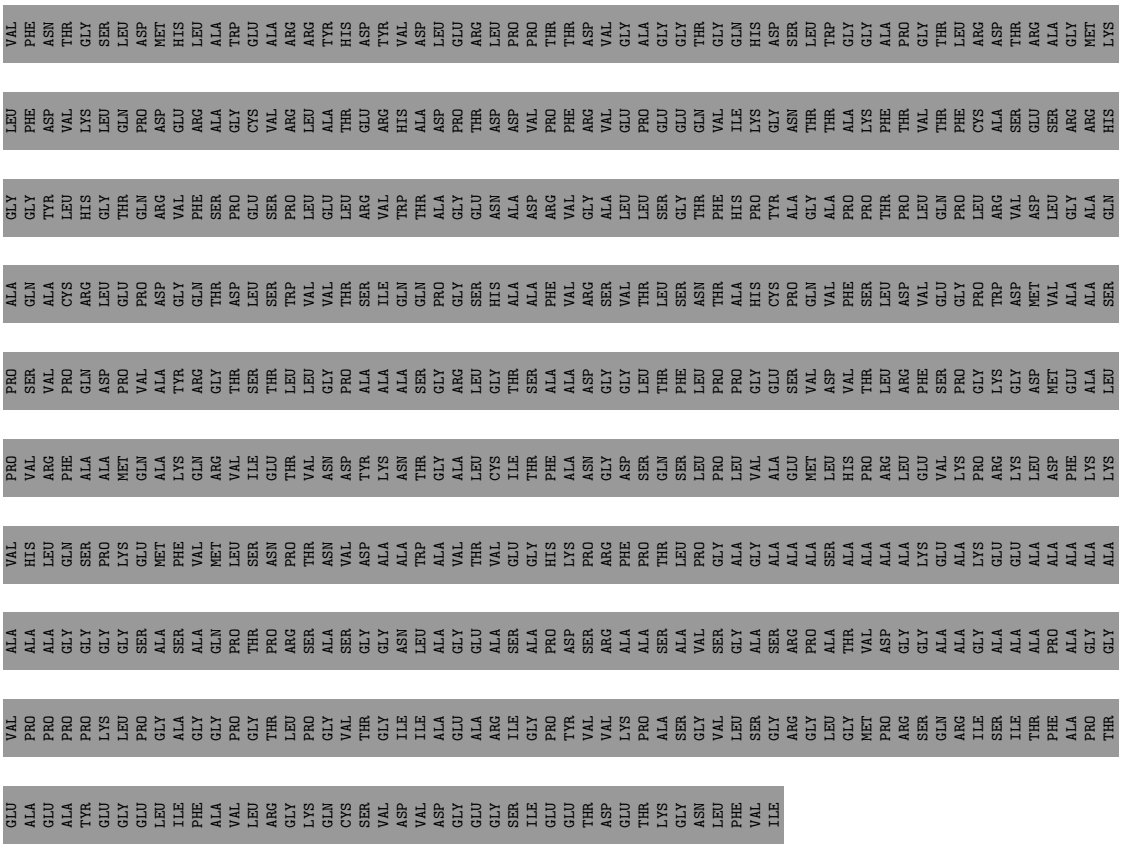


• Molecule 4: FAP81

Chain 2A:

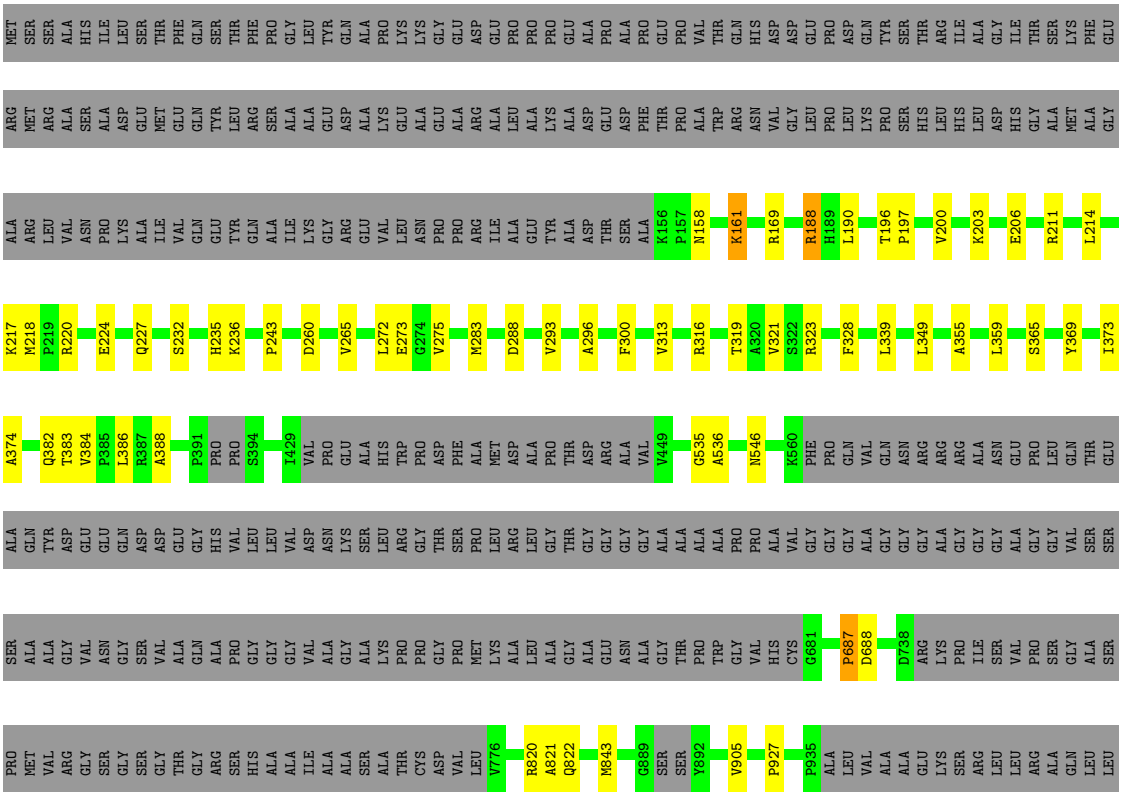
31%
66%

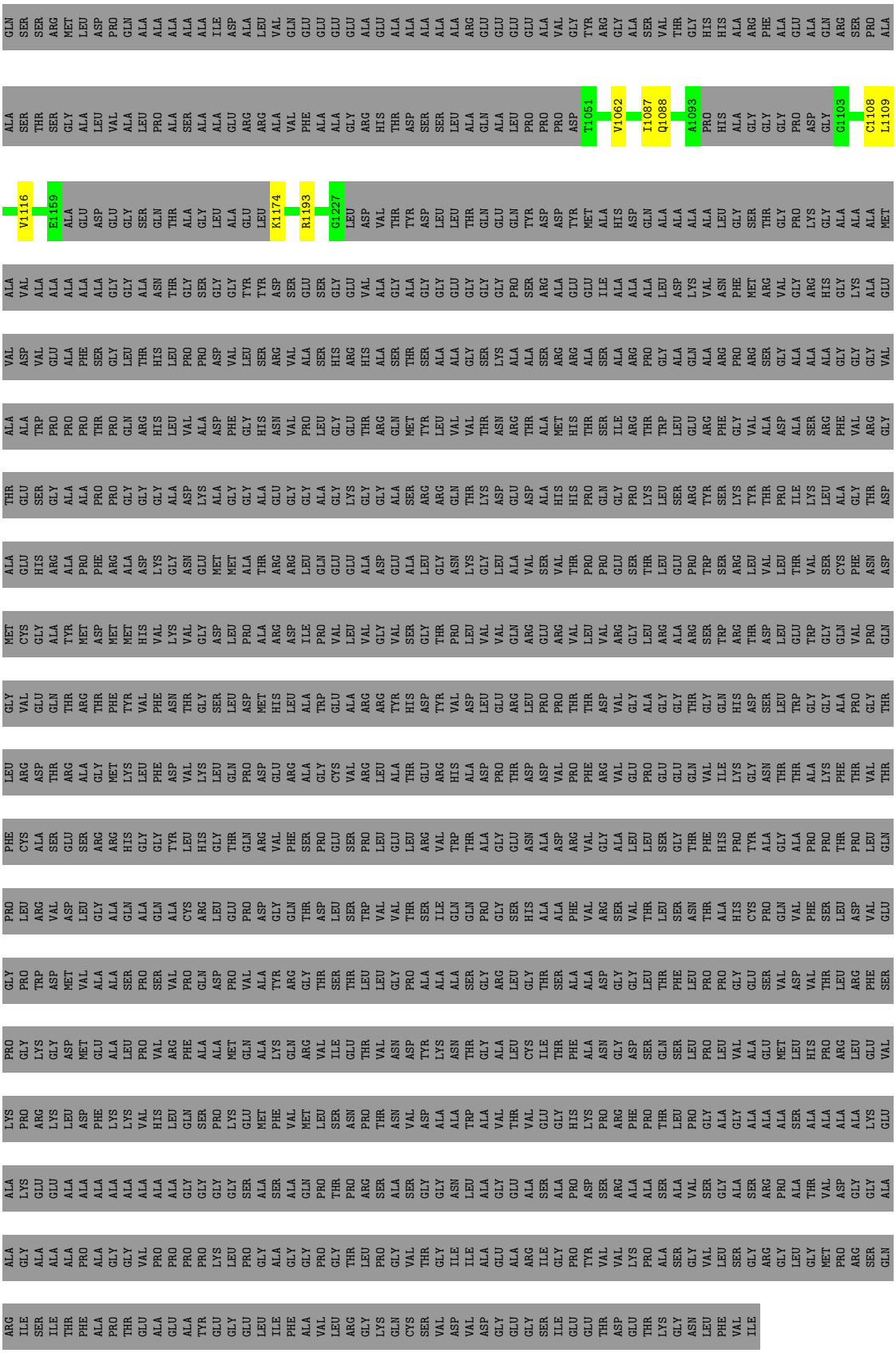

MET SER SER ALA HIS ILE LEU SER THR PHE GLN SER THR PHE PRO GLY LEU TYR GLN ALA PRO LYS LYS GLY GLU ASP GLU PRO PRO PRO GLU ALA PRO ALA PRO GLU PRO VAL THR GLN HIS ASP ASP GLU PRO ASP GLN TYR SER THR ARG ILE ALA GLY ILE THR SER LYS PHE GLU
ARG MET ARG ALA SER ALA ASP GLU MET GLU GLN TYR LEU ARG SER ALA ALA GLU ASP ALA LYS GLU ALA GLU ALA ARG ALA LEU ALA LYS ALA ASP GLU ASP PHE THR PRO ALA TRP ARG ASN VAL GLY LEU PRO LEU LYS PRO SER HIS LEU HIS LEU ASP HIS GLY ALA MET ALA GLY
ALA ARG LEU VAL ASN PRO LYS ALA ILE VAL GLN GLU TYR GLN ALA ILE LYS GLY ARG GLU VAL LEU ASN PRO PRO ARG ILE ALA GLU TYR ALA ASP THR SER ALA LYS PRO ASN TYR LEU LYS SER THR HIS ALA H166 I182 L190 A191 W192 L195 T196 Q209 R210 R211 R212
Q213 E226 I229 H234 N242 L254 R263 W264 V265 K280 M283 T284 Q289 V290 F291 V292 V293 A296 E297 V298 T299 Y303 R314 V315 R316 N317 V318 V321 S322 R323 L339 F342 A354 A355 E356 L359 R360 G367 D371 A372
P385 L386 R387 A388 R389 R390 P391 PRO PRO S394 I429 VAL PRO GLU ALA HIS TRP PRO ASP PHE ALA MET ASP ALA PRO THR ASP ARG ALA VAL V449 A536 N546 A553 K560 PHE PRO GLN VAL GLN ASN ARG ARG ARG ALA ASN GLU PRO LEU GLN THR GLU ALA GLN TYR
ASP GLU GLU GLN ASP ASP GLU GLY HIS VAL LEU LEU VAL ASP ASN LYS SER LEU ARG GLY THR SER PRO LEU ARG LEU GLY THR GLY GLY GLY GLY ALA ALA ALA ALA ALA PRO PRO ALA VAL GLY GLY GLY ALA GLY GLY GLY ALA GLY GLY GLY GLY VAL SER SER SER ALA ALA
GLY VAL ASN GLY SER VAL ALA GLN ALA PRO GLY GLY GLY VAL VAL ALA GLY ALA LYS PRO PRO GLY PRO MET LYS ALA LEU ALA GLY ALA GLU ASN ALA GLY THR PRO TRP GLY VAL HIS CYS G681 N682 G686 P687 D738 ARG LYS PRO ILE SER VAL PRO SER GLY ALA SER PRO MET
VAL ARG GLY SER GLY SER GLY THR GLY ARG SER HIS ALA ALA ILE ALA ALA SER ALA THR CYS ASP VAL LEU V776 N817 P818 T819 R820 A821 Q822 M843 L846 G889 SER SER Y892 P935 ALA LEU VAL ALA ALA GLU LYS SER ARG LEU LEU ARG ALA GLN LEU LEU GLN
SER SER ARG MET LEU ASP PRO GLN ALA ALA ALA ALA ILE ASP ALA ALA LEU VAL GLN GLU GLU GLU GLU ALA GLU ALA ALA ALA ALA ALA ARG GLU GLU GLU GLU GLU ALA VAL GLY TYR ARG GLY ALA SER VAL THR GLY HIS HIS ALA ARG PHE ALA GLU ALA GLN ARG SER PRO ALA ALA
SER THR SER GLY ALA LEU VAL ALA LEU PRO ALA SER ALA ALA GLU ARG ALA VAL PHE ALA ALA GLY ARG HIS THR ASP SER SER LEU ALA GLN ALA LEU PRO PRO PRO PRO ASP T1051 A1093 PRO HIS ALA GLY GLY GLY PRO ASP GLY G1103 E1159 ALA GLU ASP GLU GLY SER GLN
THR ALA GLY LEU ALA GLU LEU K1174 E1211 G1212 A1213 G1227 LEU ASP VAL THR TYR ASP LEU LEU THR GLN GLU GLY GLN TYR ASP ASP TYR MET ALA HIS ASP GLN ALA ALA ALA LEU GLY SER THR GLY PRO LYS GLY ALA ALA ALA MET ALA VAL ALA ALA ALA ALA ALA GLY GLY
ALA ASN THR GLY SER GLY GLY TYR TYR ASP SER GLU SER GLY GLU VAL ALA GLY GLY GLY GLY GLY PRO SER ARG ALA GLU GLU ILE ALA HIS ALA LEU ASP LYS VAL ASN PHE MET ARG VAL GLY ARG HIS GLY LYS ALA GLU VAL ASP VAL GLU ALA PHE SER GLY LEU
THR HIS LEU PRO PRO ASP VAL LEU SER ARG VAL ALA SER HIS ARG HIS ALA SER THR SER ALA ALA GLY SER LYS ALA ALA SER ARG ARG ALA SER ILE ALA ARG PRO GLY ALA GLN ALA ARG PRO ARG SER GLY ALA ALA ALA GLY GLY VAL ALA ALA TRP PRO PRO PRO THR PRO GLN
ARG HIS LEU VAL ALA ASP PHE GLY HIS ASN VAL PRO LEU GLY GLU THR ARG GLN MET TYR LEU VAL VAL THR ASN ARG THR ALA MET HIS THR SER ILE ARG THR TRP LEU GLU ARG PHE GLY VAL ALA ASP ALA SER ARG PHE VAL ARG GLY THR GLU SER GLY ALA ALA PRO PRO GLY
GLY GLY ALA ASP LYS ALA GLY GLY GLY GLY ALA GLU GLY GLY ALA SER ARG ALA GLY GLY THR LYS ASP GLU ASP ALA HIS HIS PRO GLN GLY PRO LYS LEU SER ARG TYR SER LYS TYR THR PRO ILE LYS LEU ALA GLY THR ASP ALA GLU HIS ARG ALA PRO PHE ARG ALA
ASP LYS GLY ASN GLU MET MET ALA THR ARG ARG LEU GLN GLU ALA ASP GLU ALA LEU GLY ASN LYS GLY LEU ALA VAL SER VAL THR PRO GLU SER THR LEU GLU PRO TRP SER ARG LEU VAL LEU THR VAL SER CYS PHE ASN ASP MET GLY ALA TYR MET ASP MET MET
HIS VAL LYS VAL GLY ASP LEU PRO ALA ARG ASP ILE PRO VAL LEU VAL GLY VAL SER GLY THR PRO LEU VAL VAL GLN ARG GLU ARG VAL LEU VAL ARG GLY LEU ARG ALA ARG SER TRP THR ASP LEU LEU TRP GLY GLN VAL PRO GLN GLY VAL GLU GLN THR ARG THR PHE TYR



- Molecule 4: FAP81

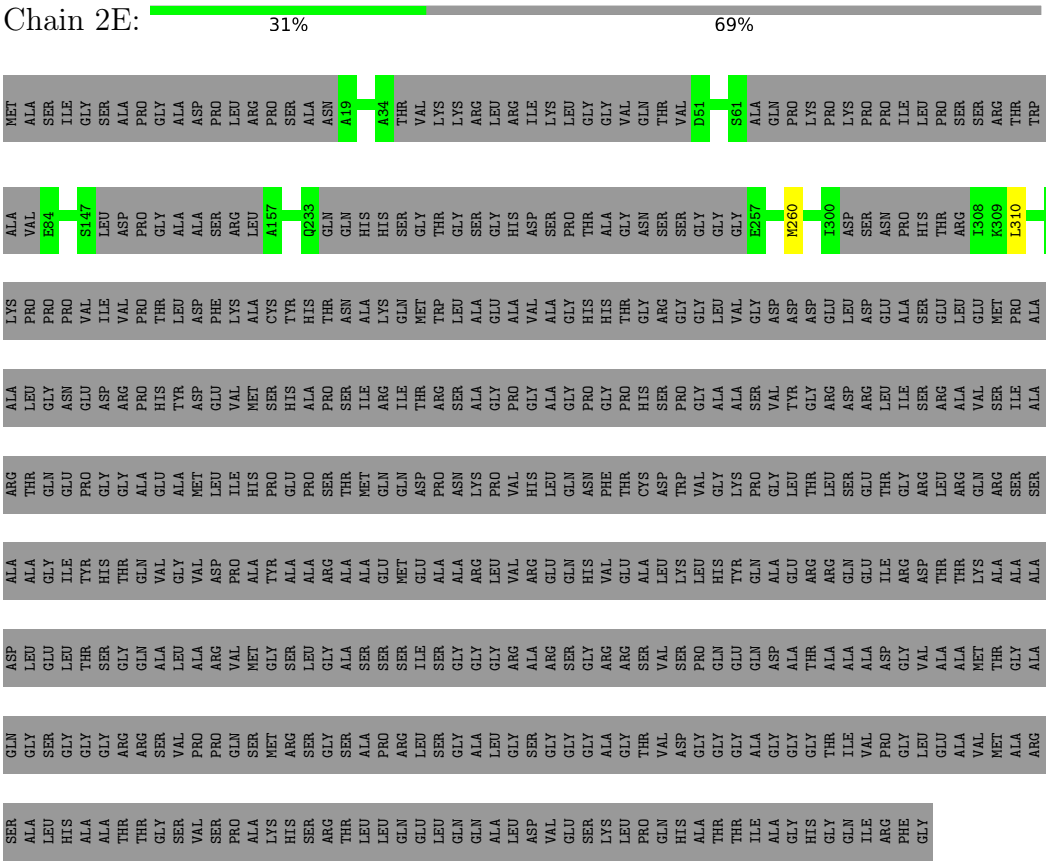
Chain 2B:





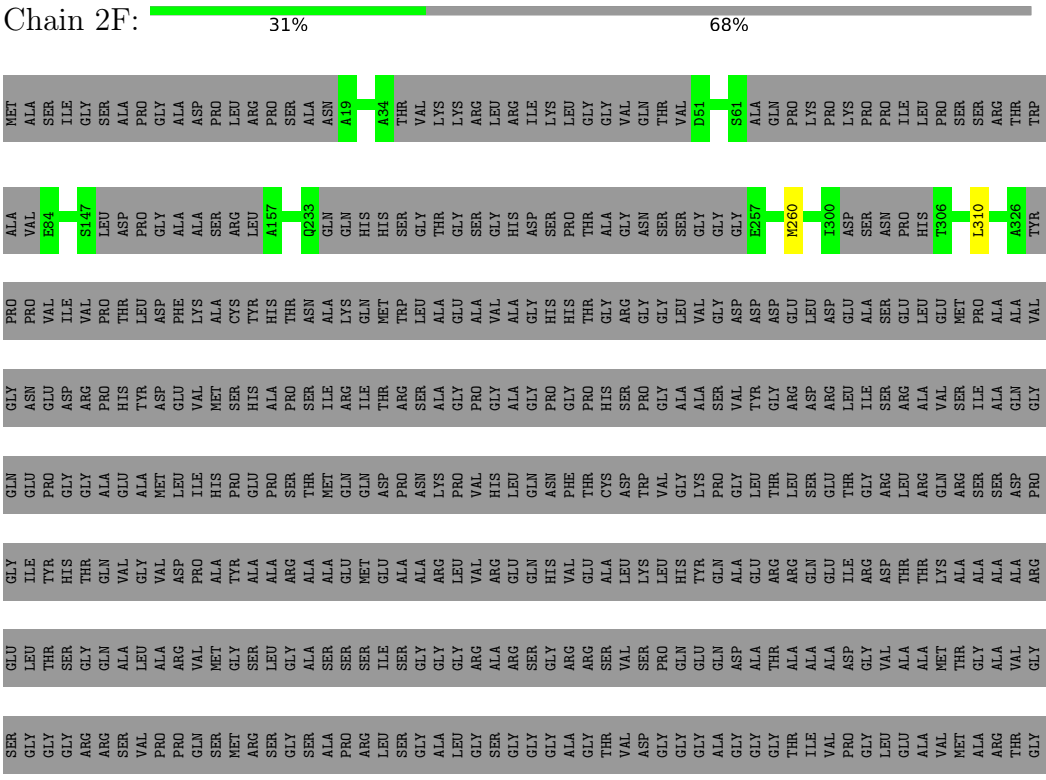
• Molecule 5: FAP216

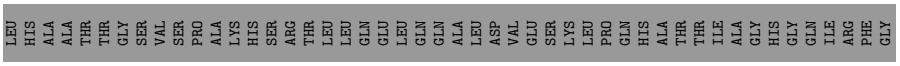
Chain 2E:



• Molecule 5: FAP216

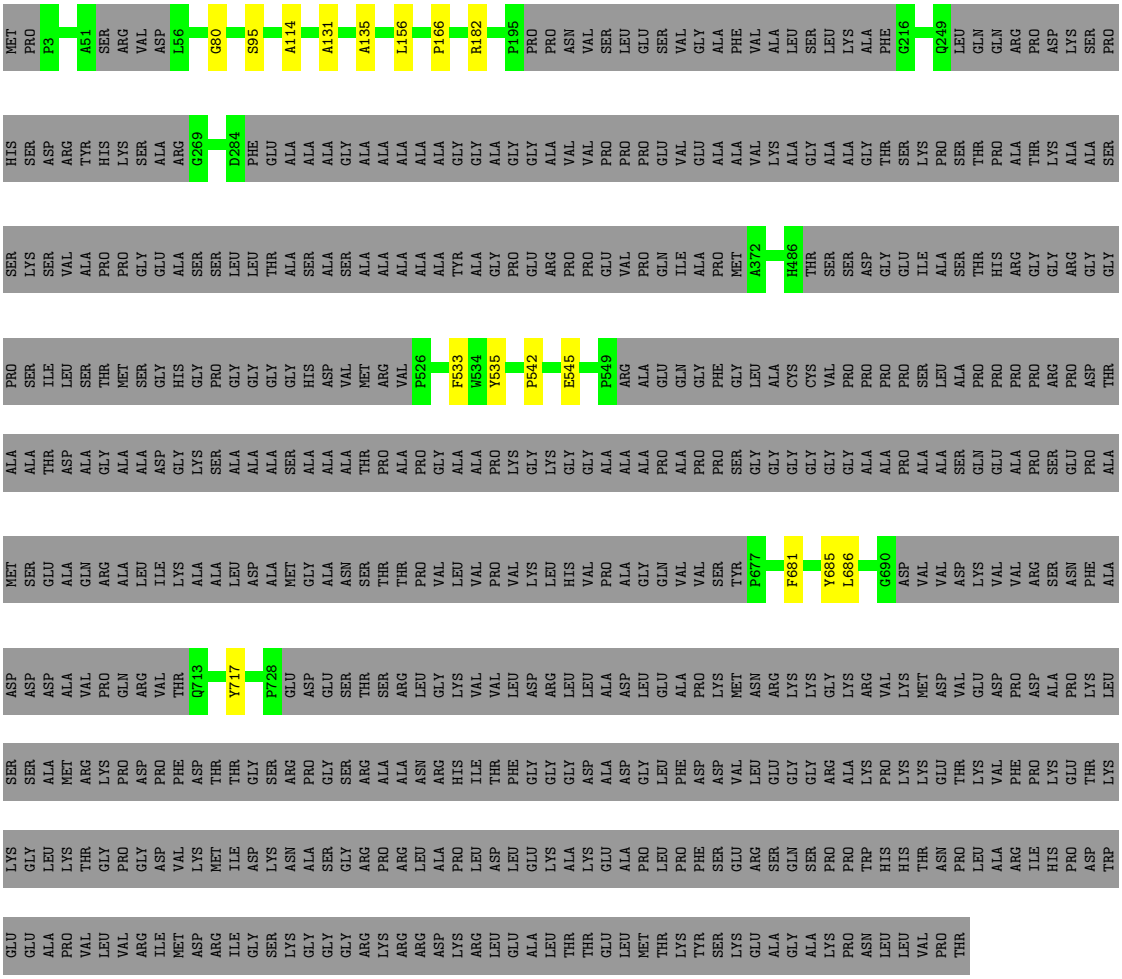
Chain 2F:





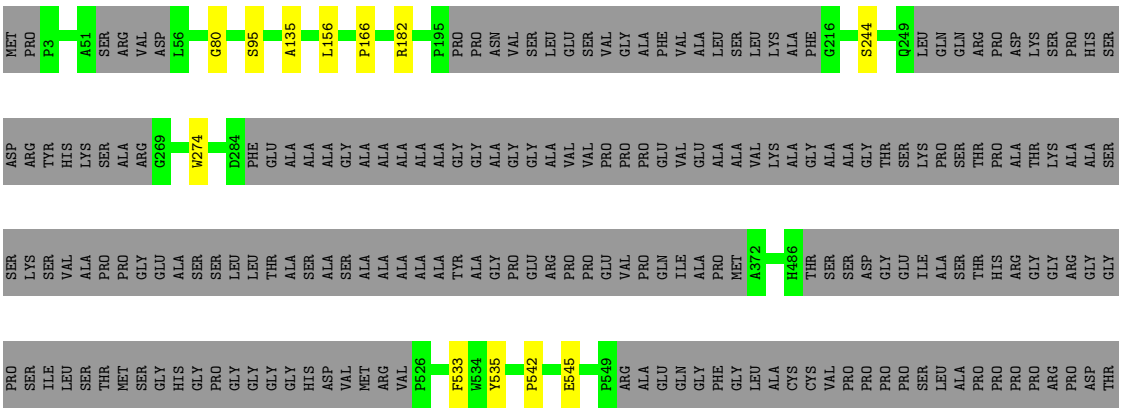
• Molecule 6: FAP297

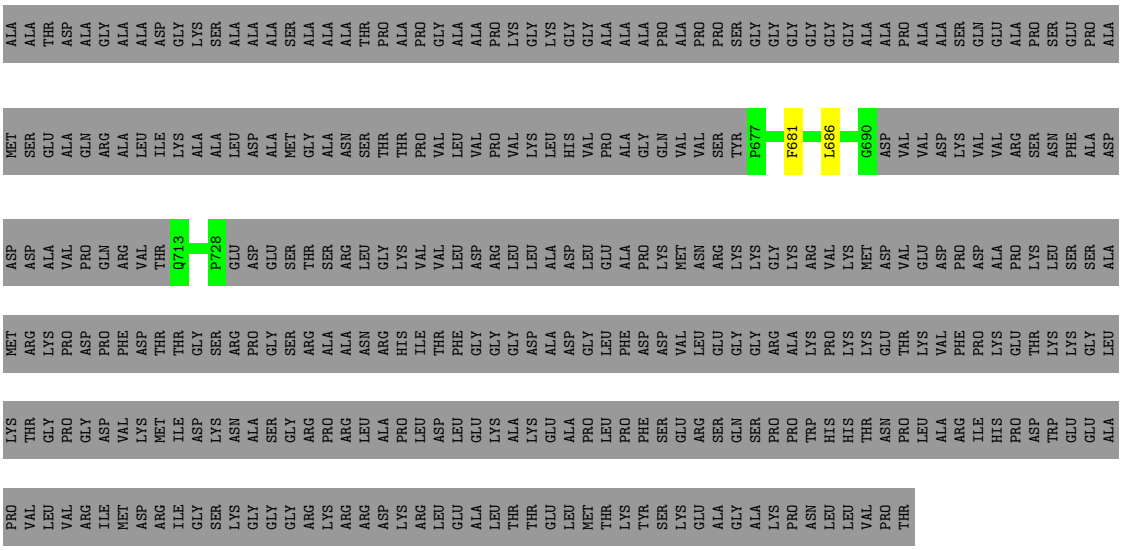
Chain 2H:



• Molecule 6: FAP297

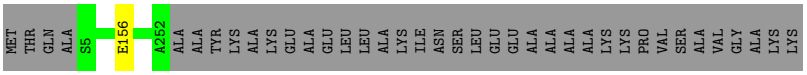
Chain 2I:





• Molecule 7: FAP114

Chain 2K:

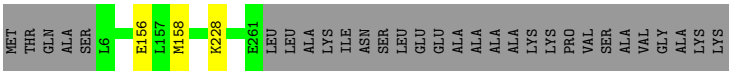


• Molecule 7: FAP114

Chain 2L:

• Molecule 7: FAP114

Chain 2M:



• Molecule 7: FAP114

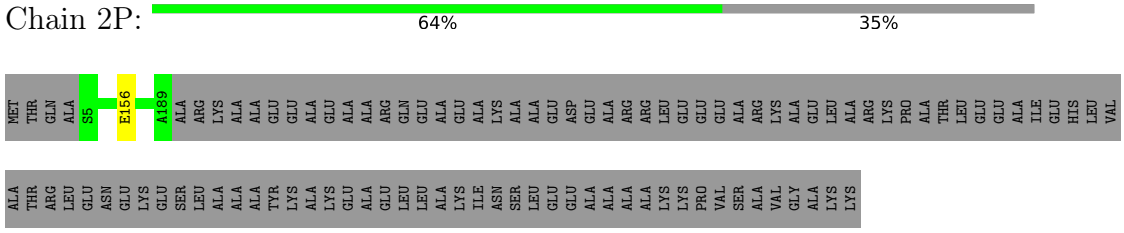
Chain 2N:

• Molecule 7: FAP114

Chain 2O:

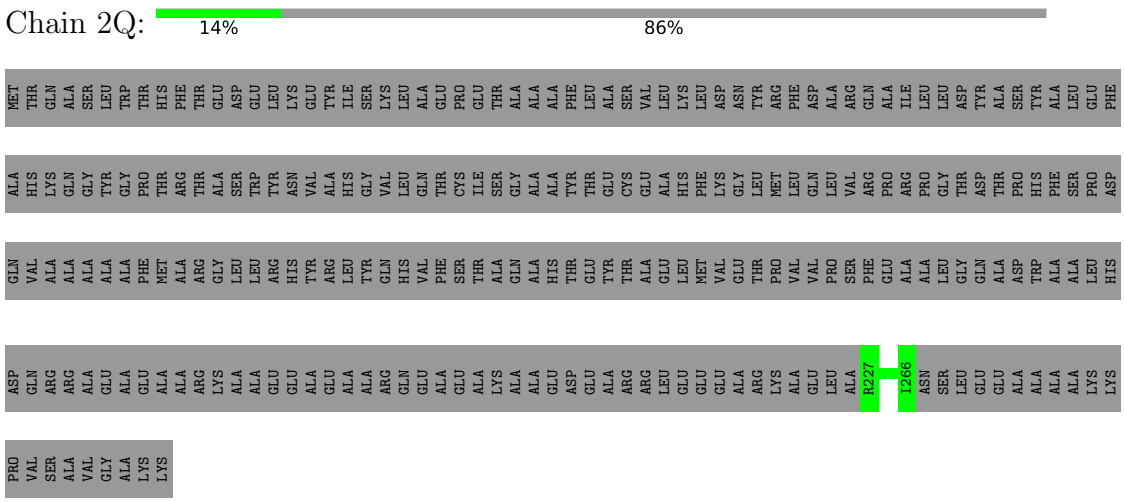
• Molecule 7: FAP114

Chain 2P:



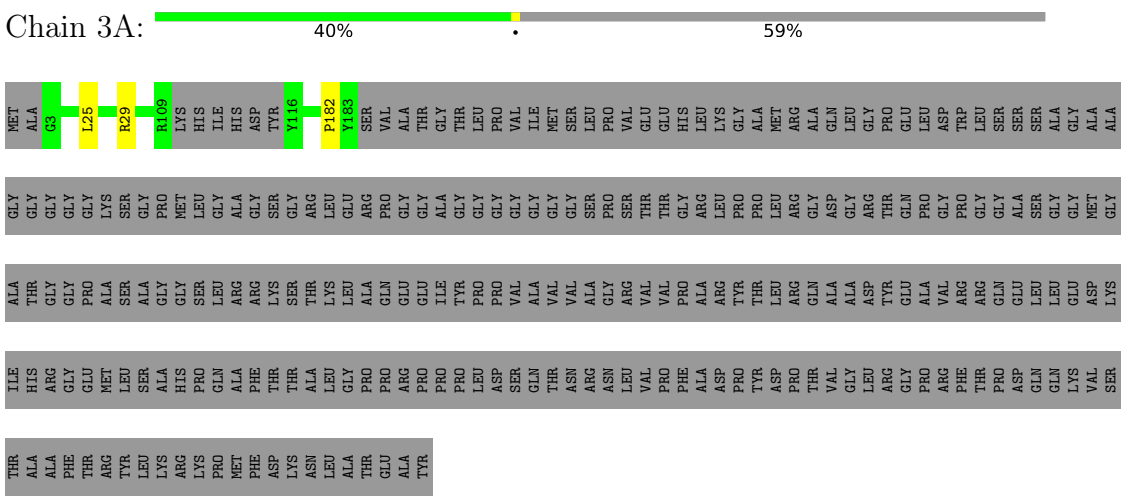
• Molecule 7: FAP114

Chain 2Q:



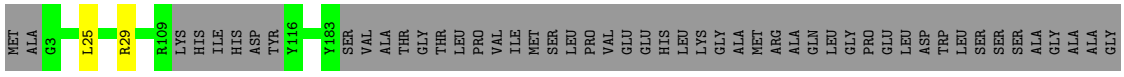
• Molecule 8: FAP305

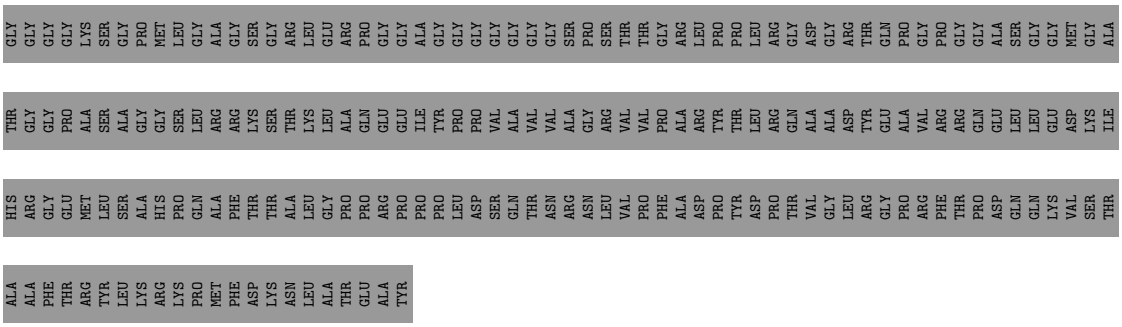
Chain 3A:



• Molecule 8: FAP305

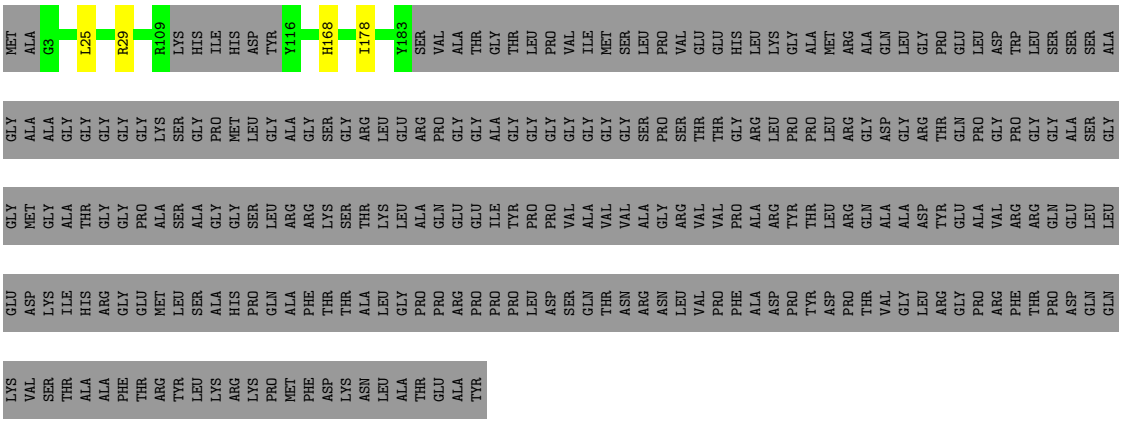
Chain 3B:





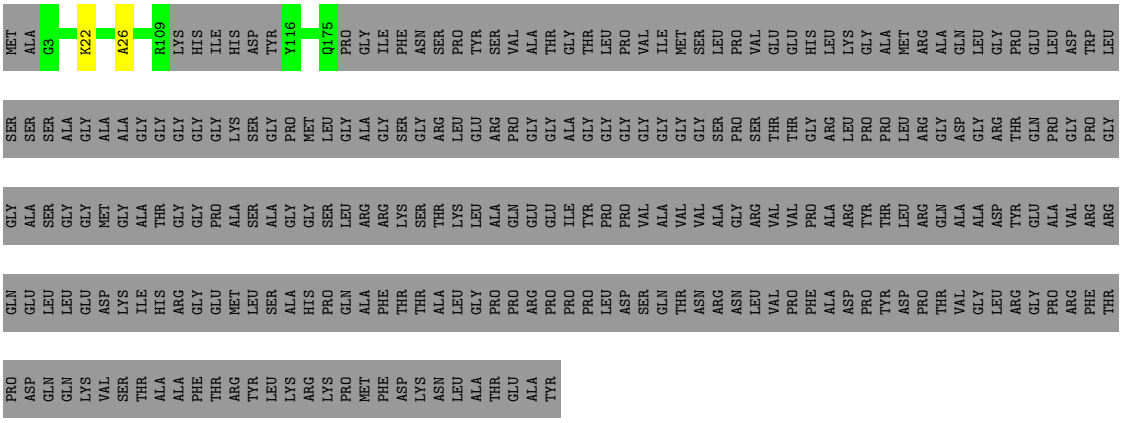
• Molecule 8: FAP305

Chain 3C:



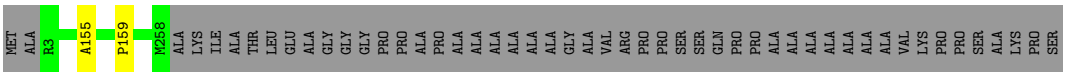
• Molecule 8: FAP305

Chain 3D:



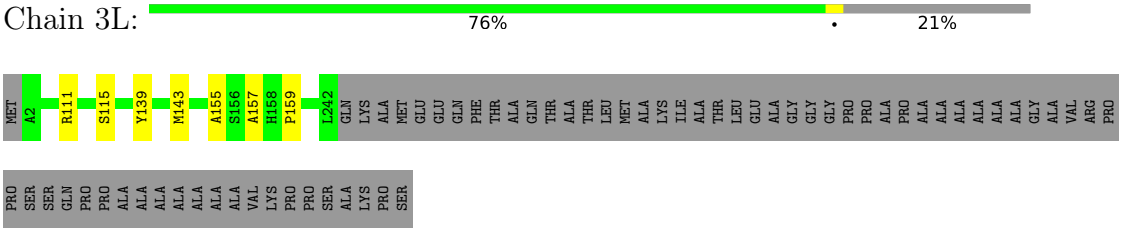
• Molecule 9: FAP119

Chain 3K:



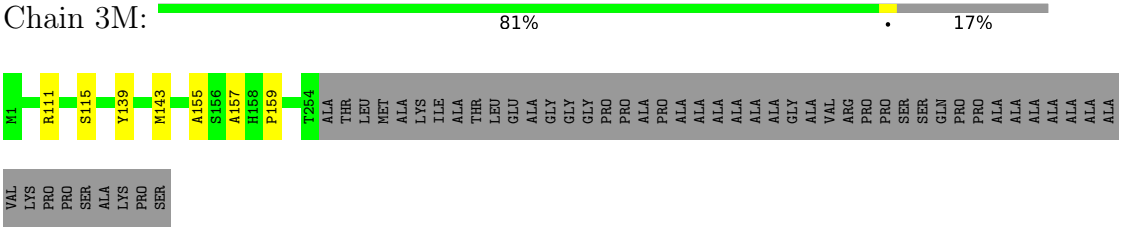
• Molecule 9: FAP119

Chain 3L:



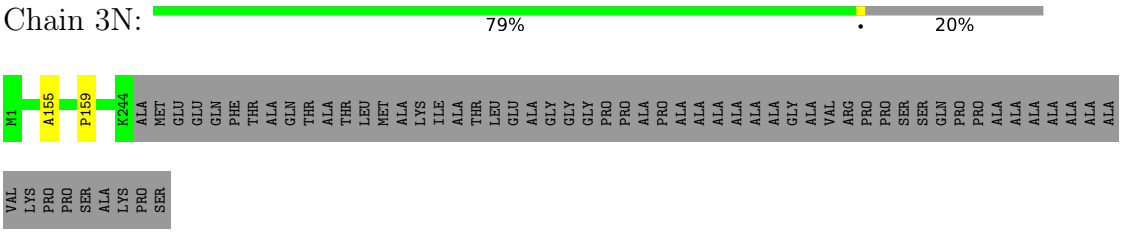
• Molecule 9: FAP119

Chain 3M:



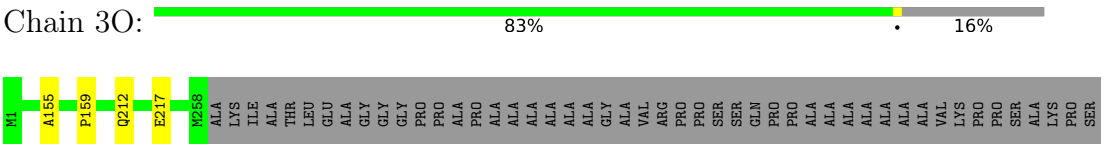
• Molecule 9: FAP119

Chain 3N:



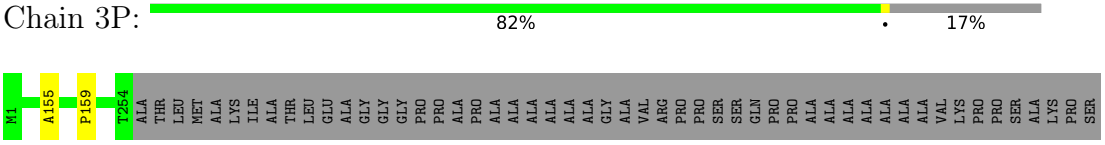
• Molecule 9: FAP119

Chain 3O:



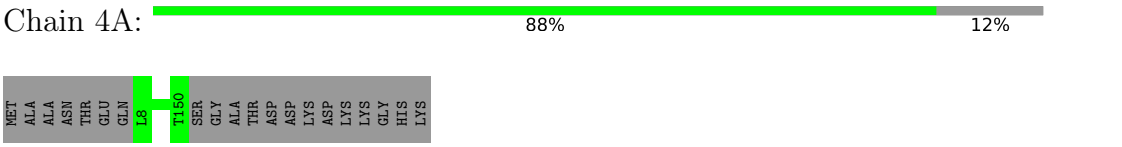
• Molecule 9: FAP119

Chain 3P:



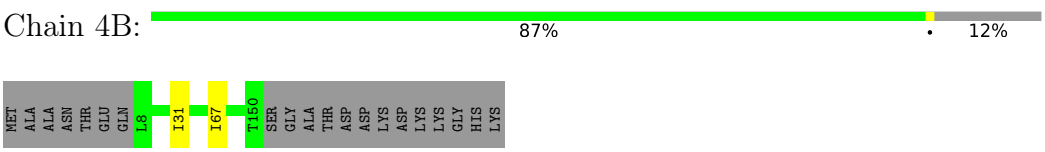
• Molecule 10: Calmodulin

Chain 4A:



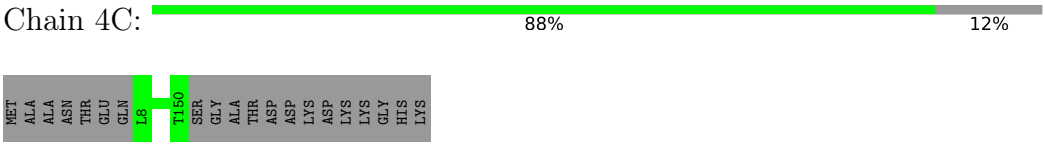
• Molecule 10: Calmodulin

Chain 4B:



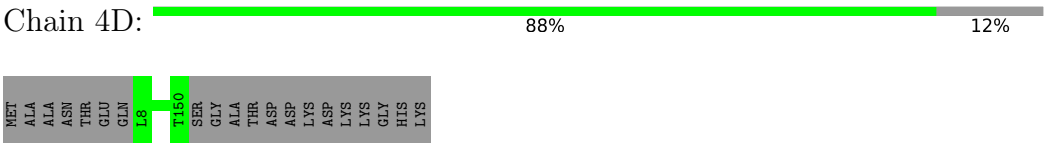
• Molecule 10: Calmodulin

Chain 4C:



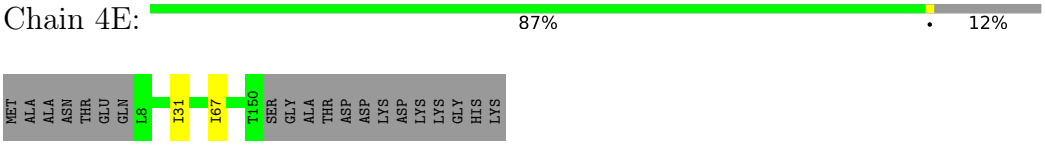
• Molecule 10: Calmodulin

Chain 4D:



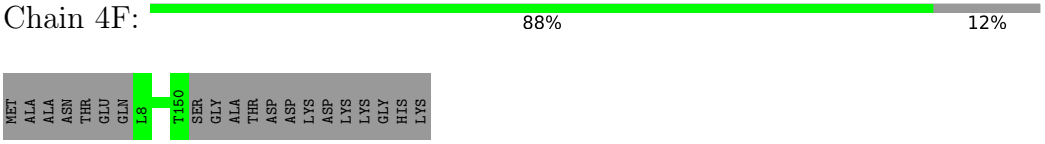
• Molecule 10: Calmodulin

Chain 4E:



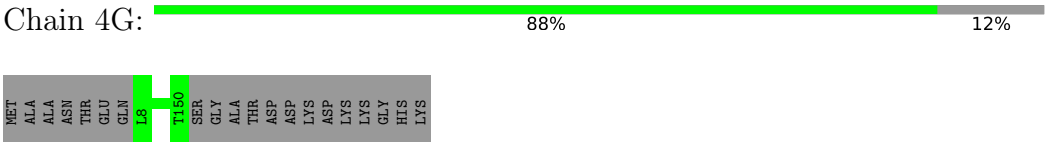
• Molecule 10: Calmodulin

Chain 4F:



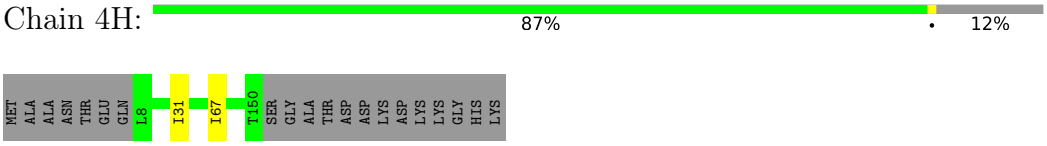
• Molecule 10: Calmodulin

Chain 4G:



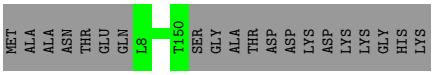
• Molecule 10: Calmodulin

Chain 4H:



• Molecule 10: Calmodulin

Chain 4I:

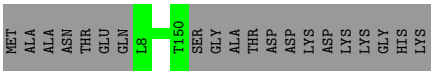


• Molecule 10: Calmodulin

Chain 4J:

• Molecule 10: Calmodulin

Chain 4K:

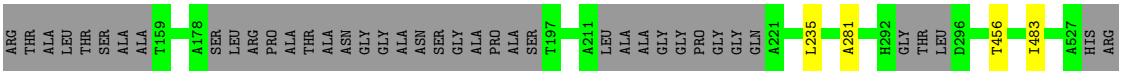


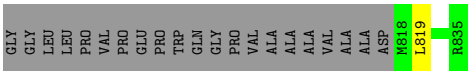
• Molecule 10: Calmodulin

Chain 4L:

• Molecule 11: FAP101

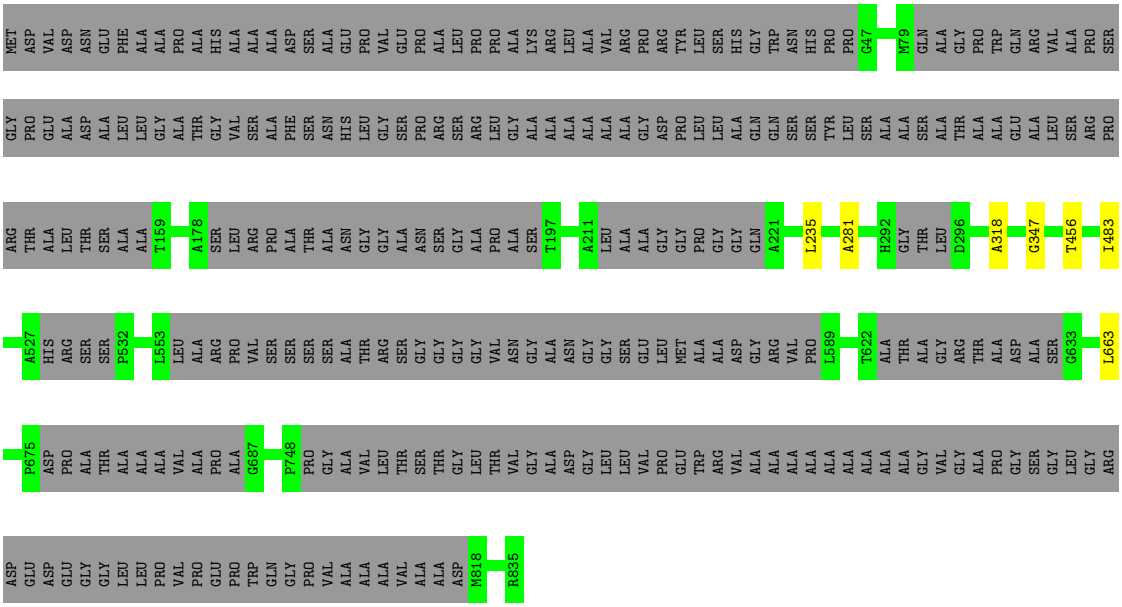
Chain 5A:





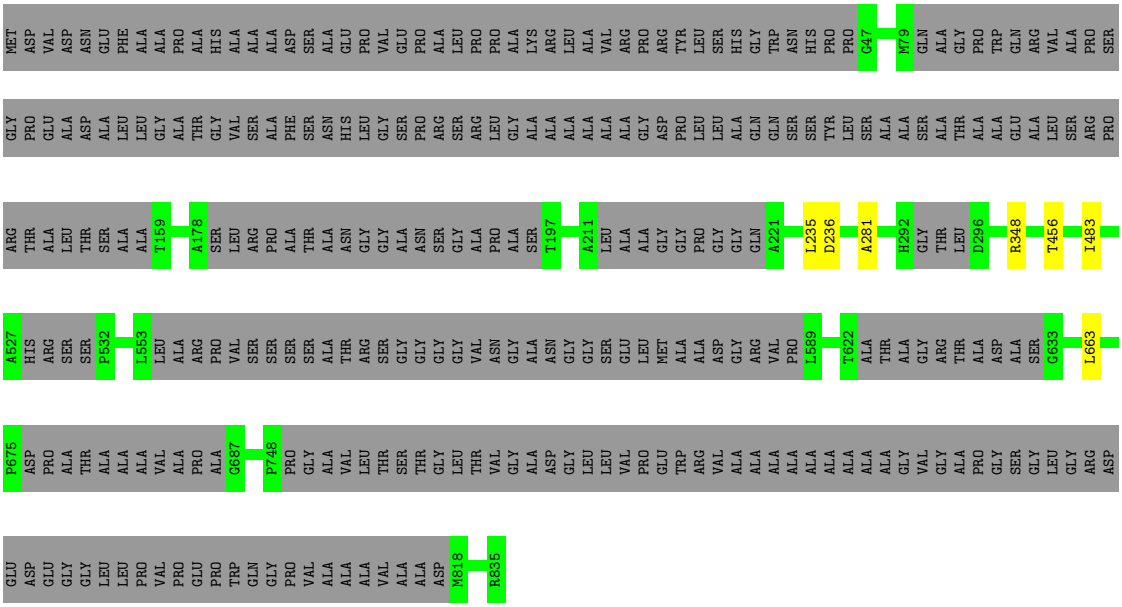
• Molecule 11: FAP101

Chain 5B:



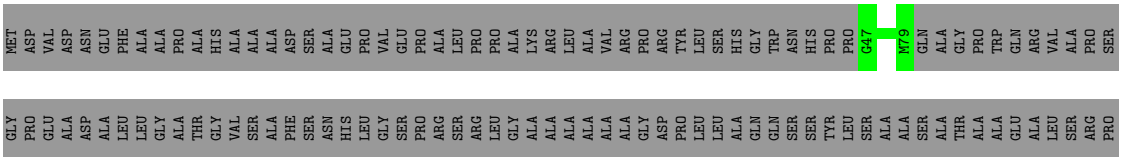
• Molecule 11: FAP101

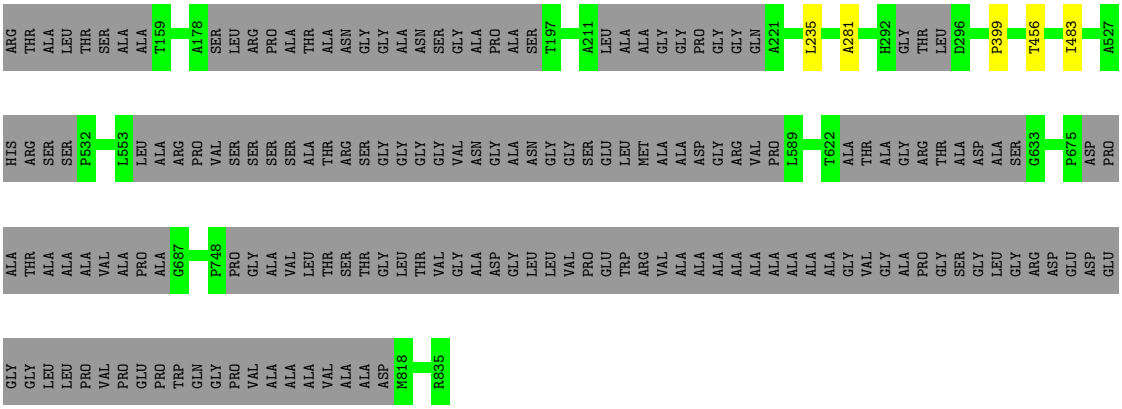
Chain 5C:



• Molecule 11: FAP101

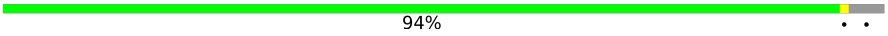
Chain 5D:





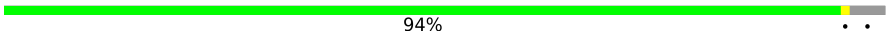
• Molecule 12: FAP15

Chain 6A:



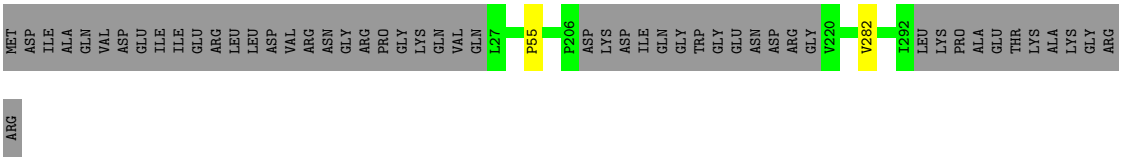
• Molecule 12: FAP15

Chain 6B:



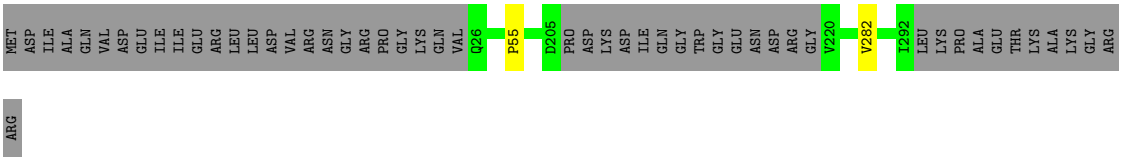
• Molecule 12: FAP15

Chain 6C:



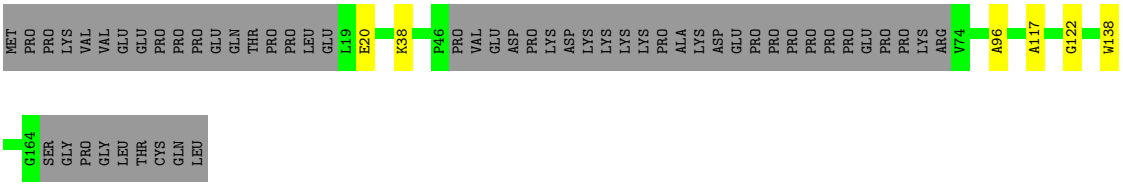
• Molecule 12: FAP15

Chain 6D:



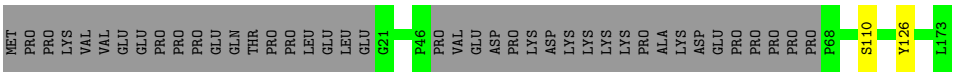
• Molecule 13: FAP227

Chain 7A:



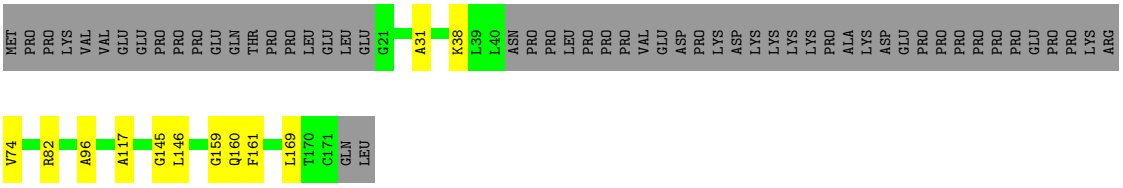
• Molecule 13: FAP227

Chain 7B:



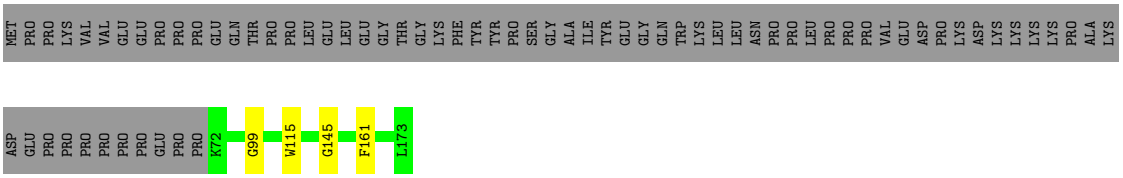
• Molecule 13: FAP227

Chain 7C:



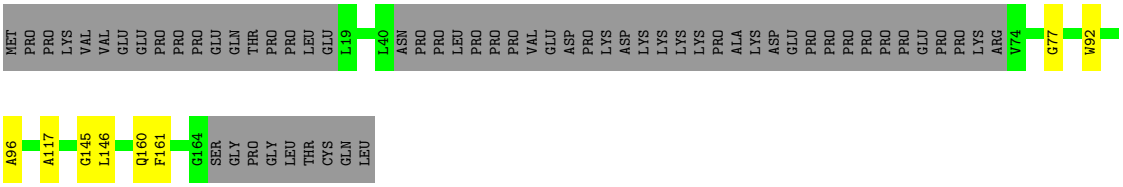
• Molecule 13: FAP227

Chain 7D:



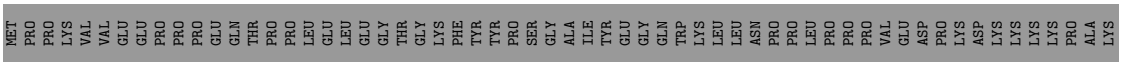
• Molecule 13: FAP227

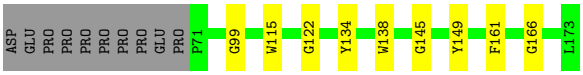
Chain 7E:



• Molecule 13: FAP227

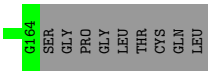
Chain 7F:





• Molecule 13: FAP227

Chain 7G:



• Molecule 13: FAP227

Chain 7H:

• Molecule 13: FAP227

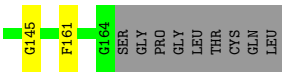
Chain 7I:

• Molecule 13: FAP227

Chain 7J:

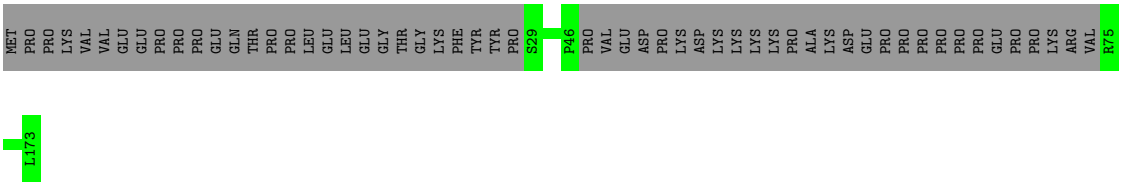
• Molecule 13: FAP227

Chain 7K:



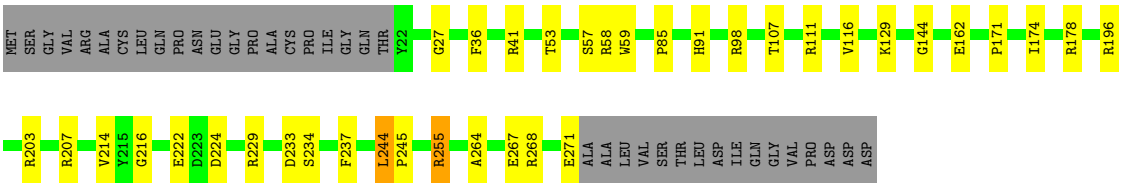
• Molecule 13: FAP227

Chain 7L:



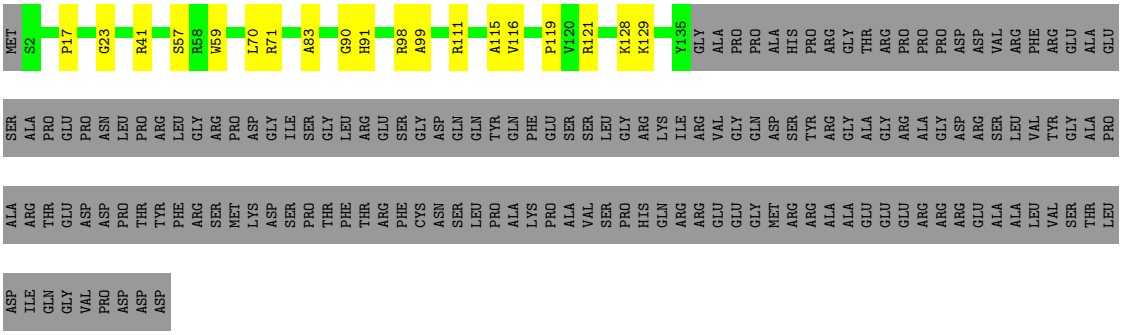
• Molecule 14: FAP105

Chain 8A:



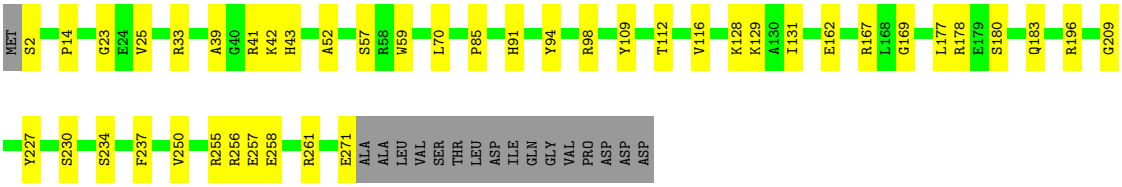
• Molecule 14: FAP105

Chain 8B:



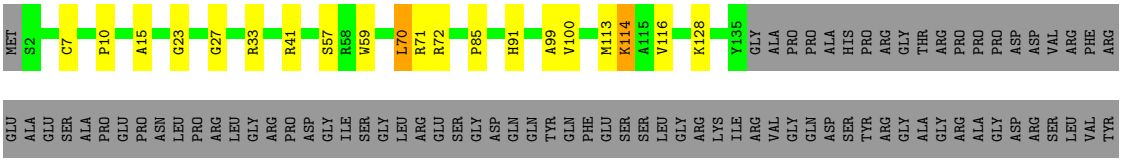
• Molecule 14: FAP105

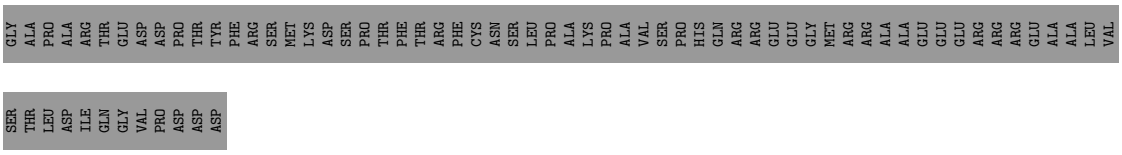
Chain 8C:



• Molecule 14: FAP105

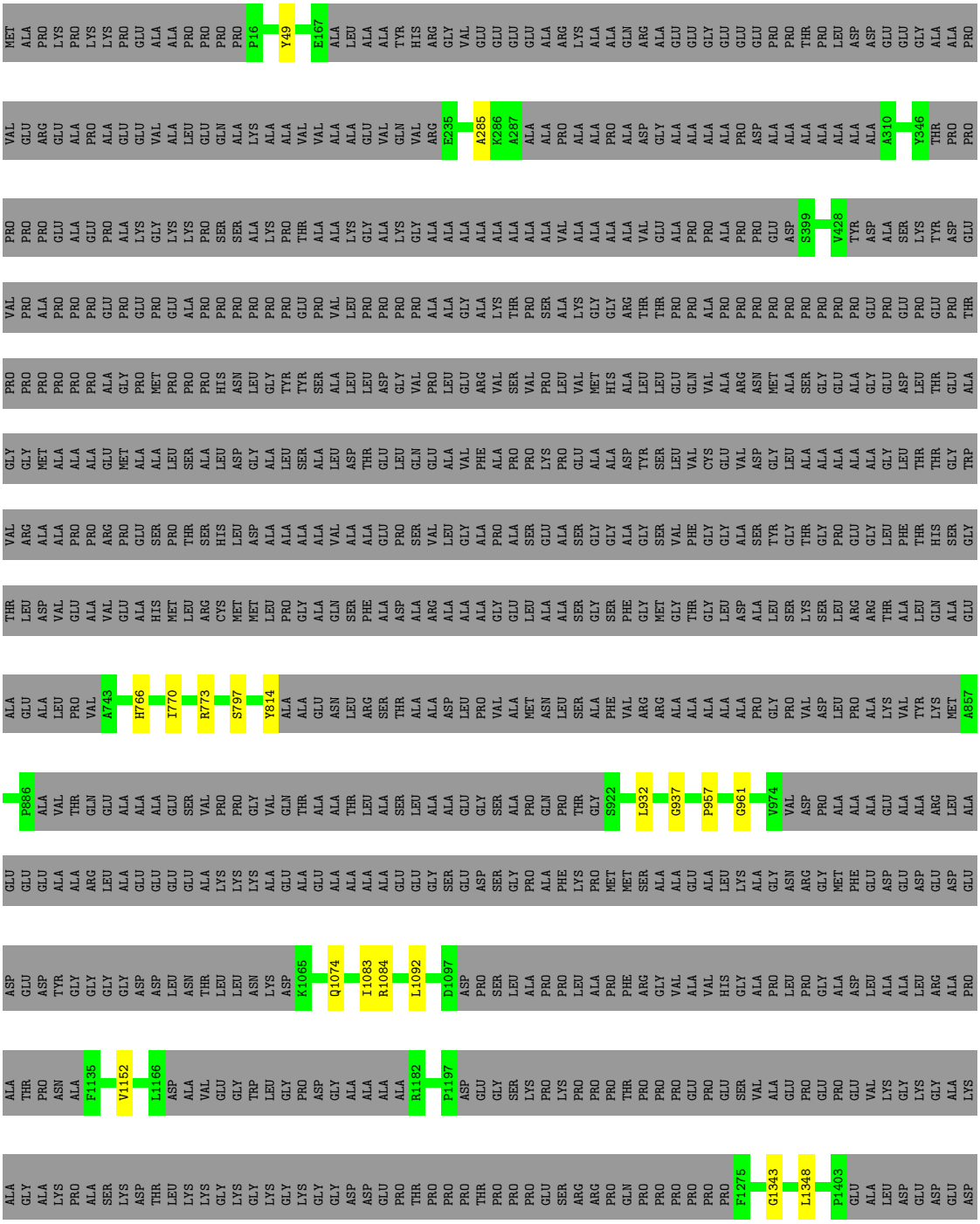
Chain 8D:

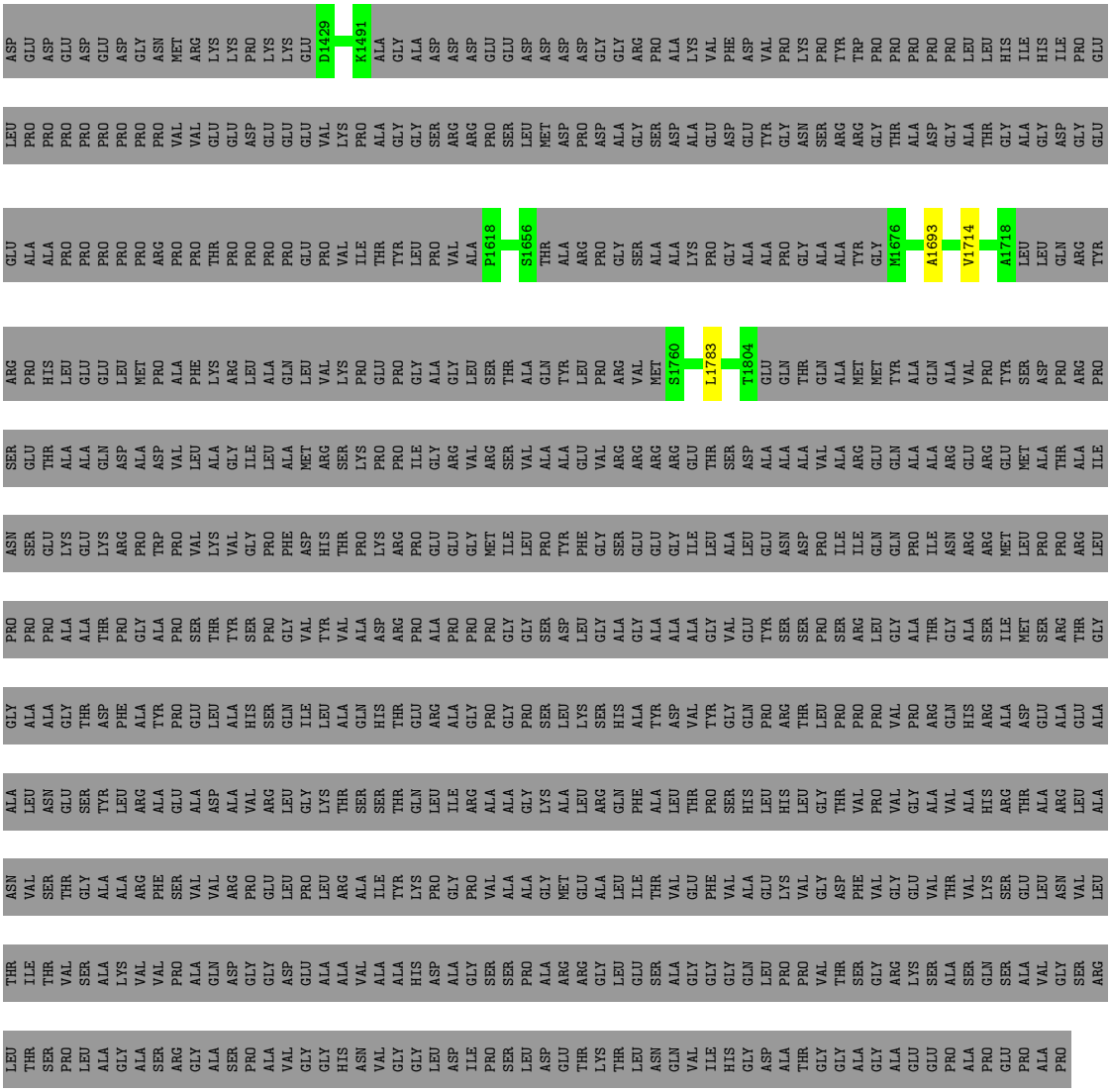




• Molecule 15: PF6

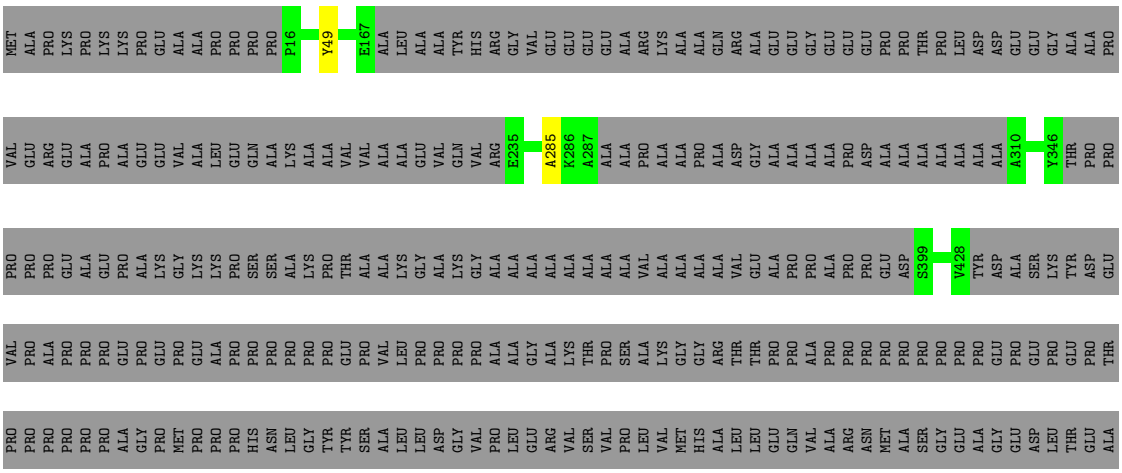
Chain 9A:

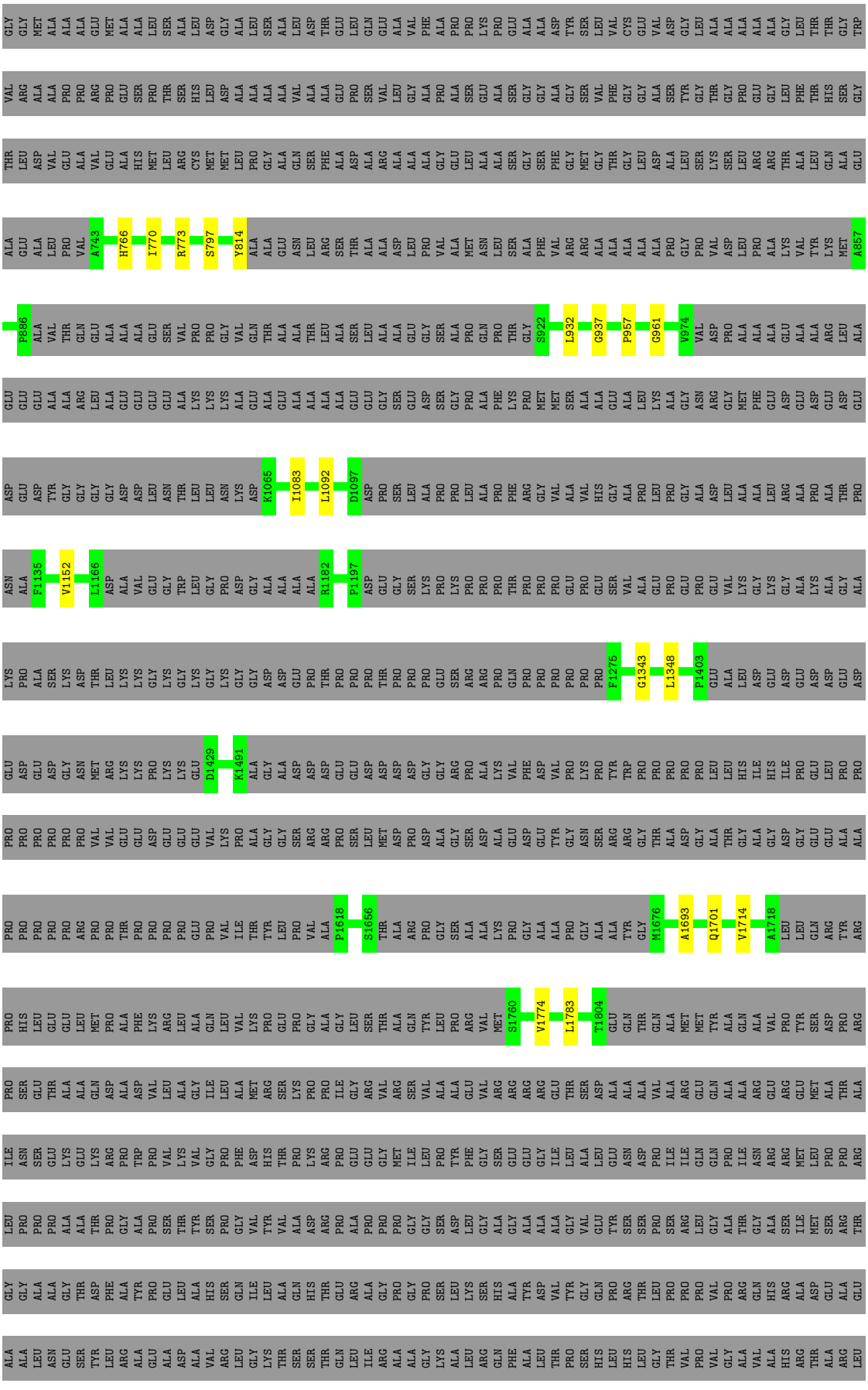




• Molecule 15: PF6

Chain 9B:

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V974
K1065
I1083
L1092
D1097
F1135
V1152
L1166
R1182
P1197
F1275
G1343
L1348
P1403
D1429
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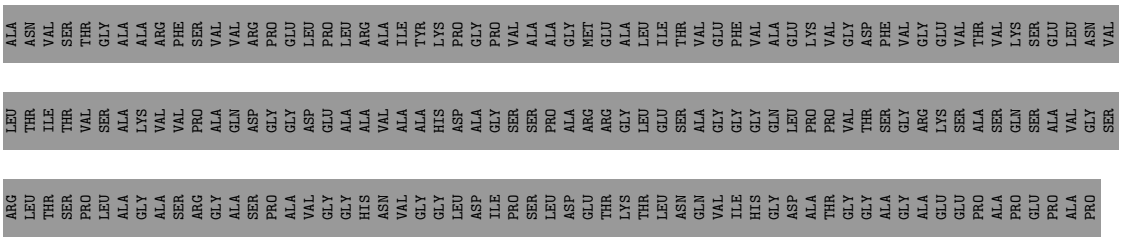
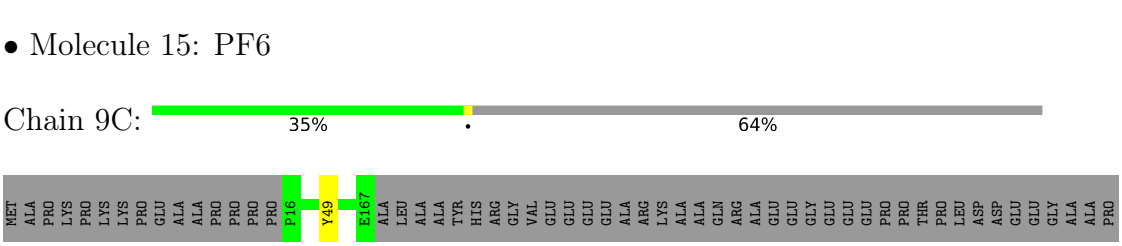
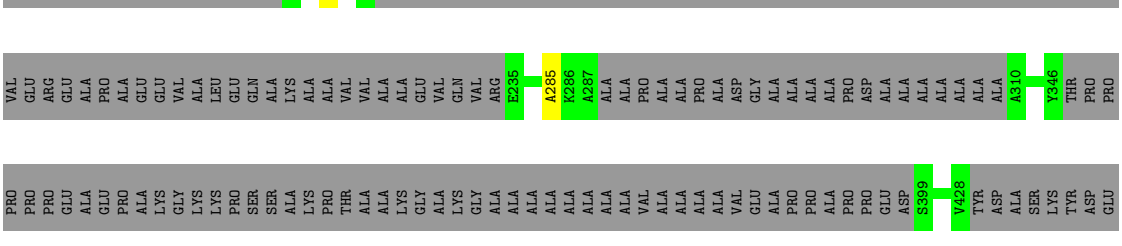
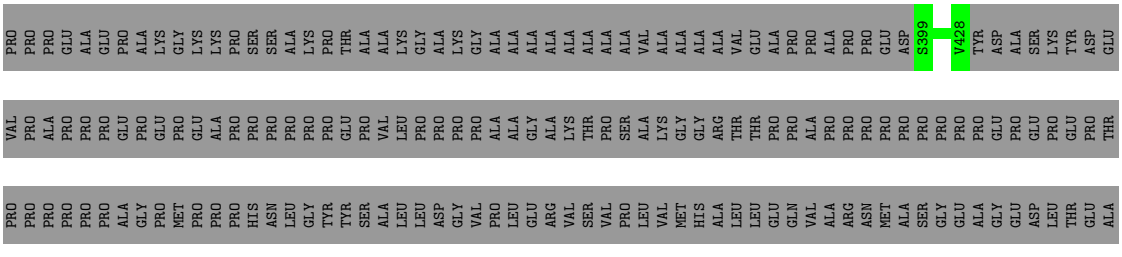


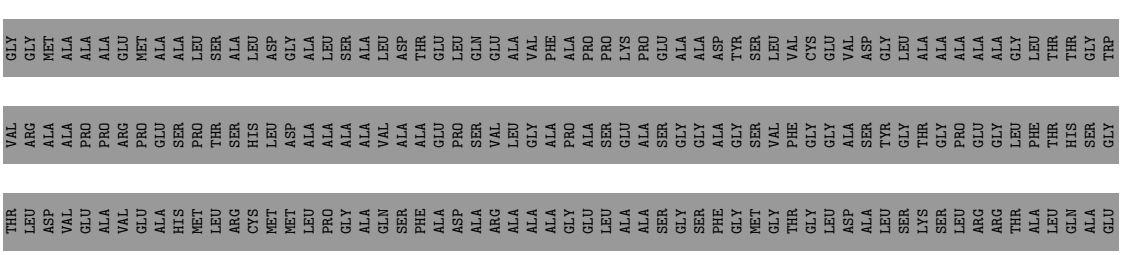


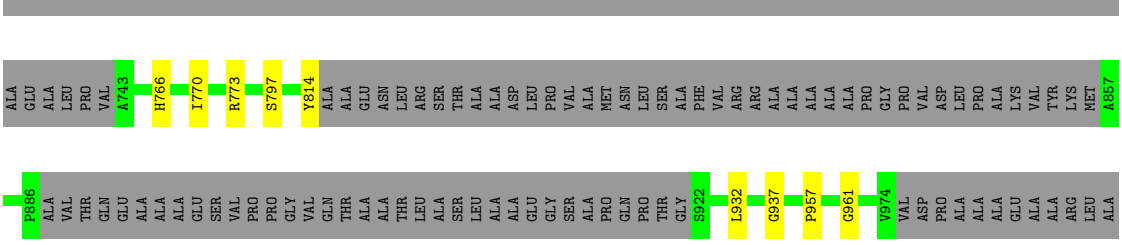


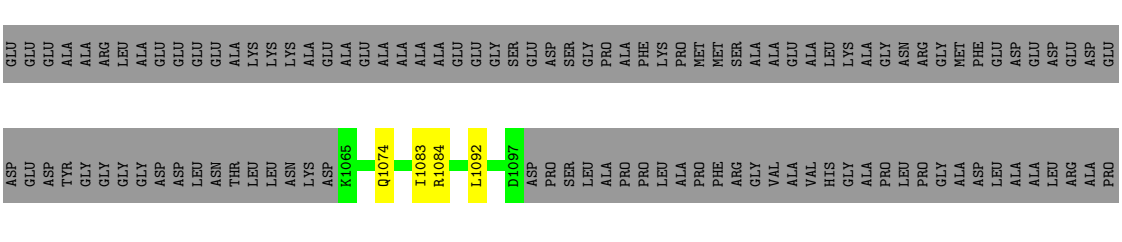
• Molecule 15: PF6

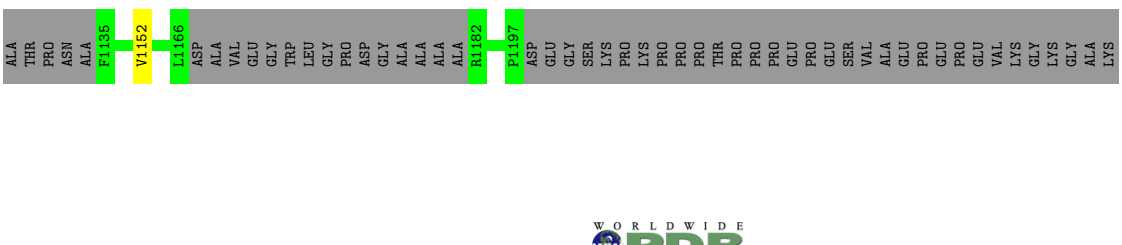
Chain 9C:

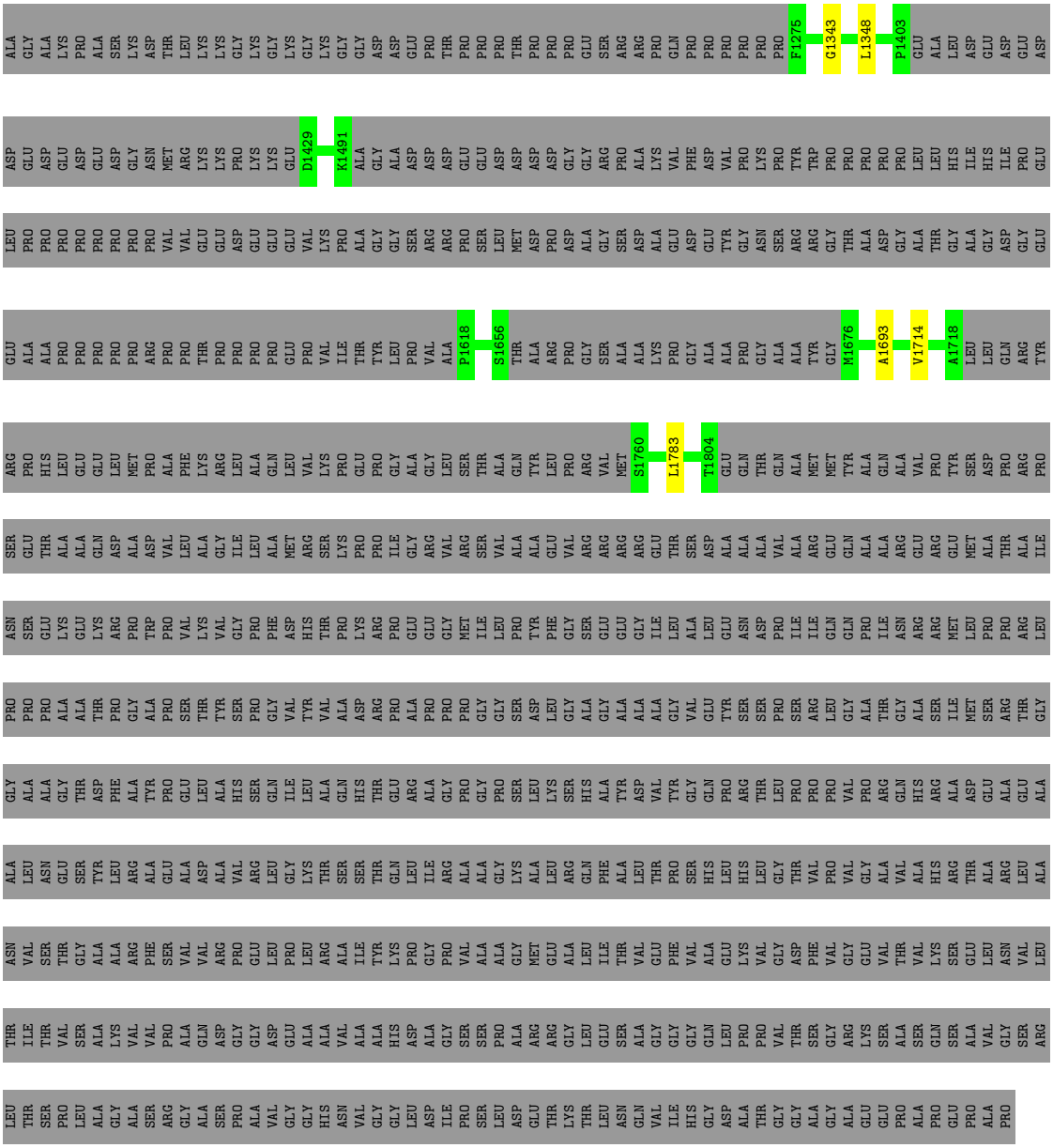






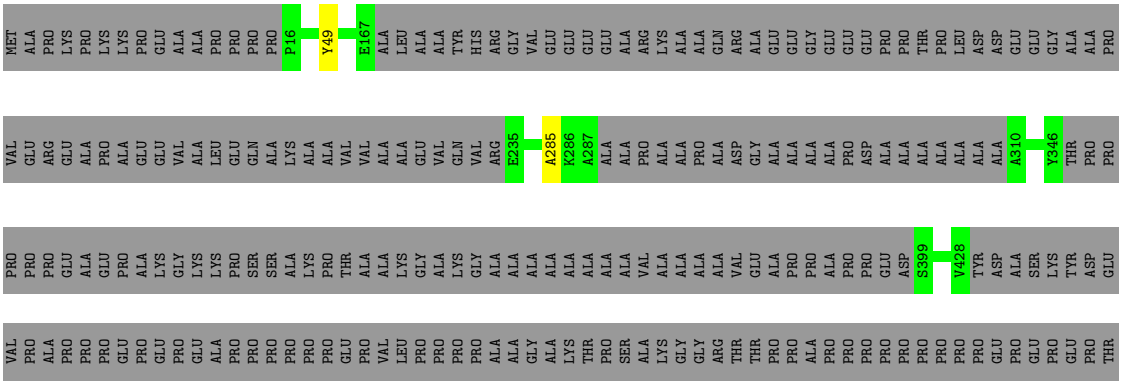


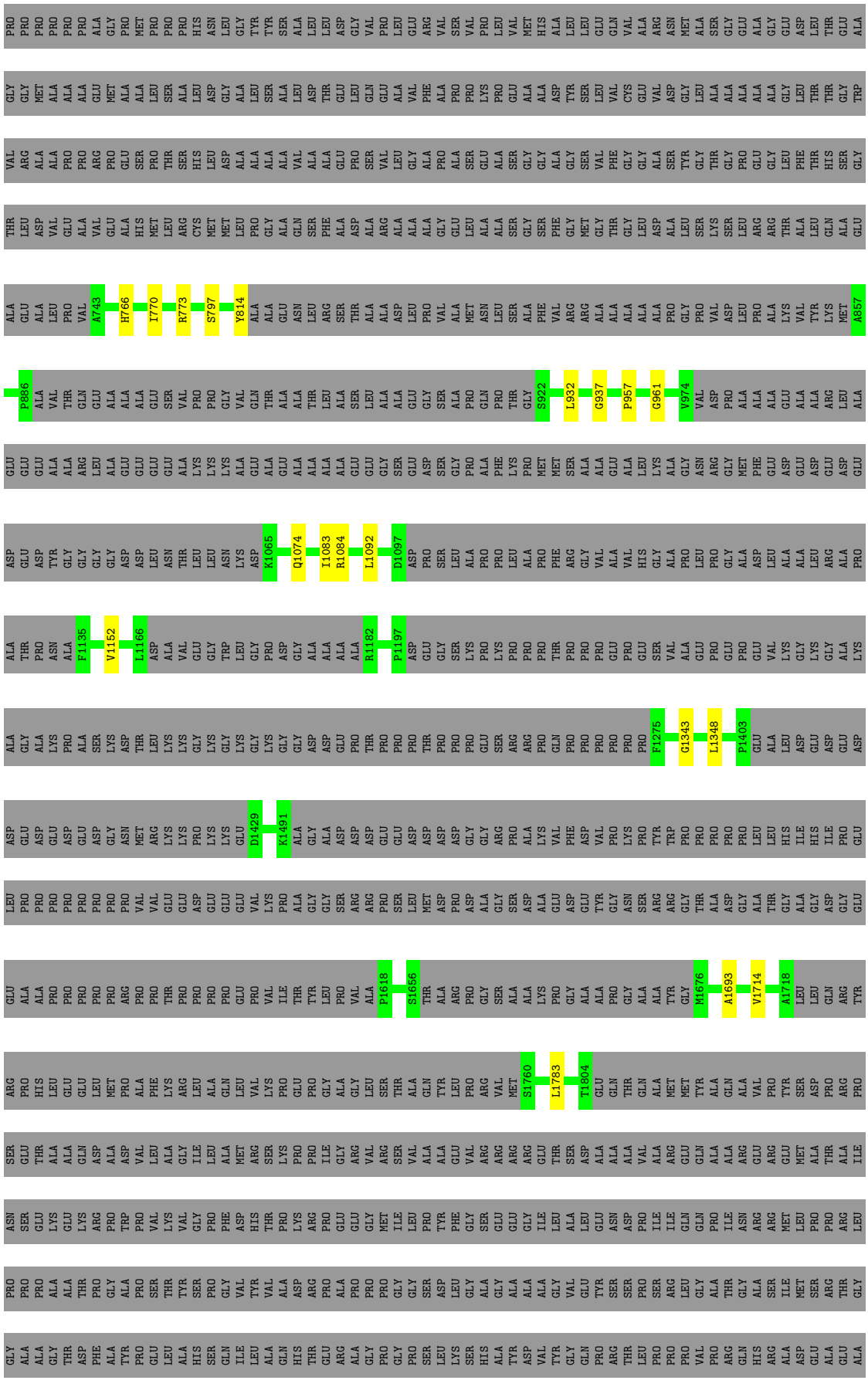




• Molecule 15: PF6

Chain 9D:

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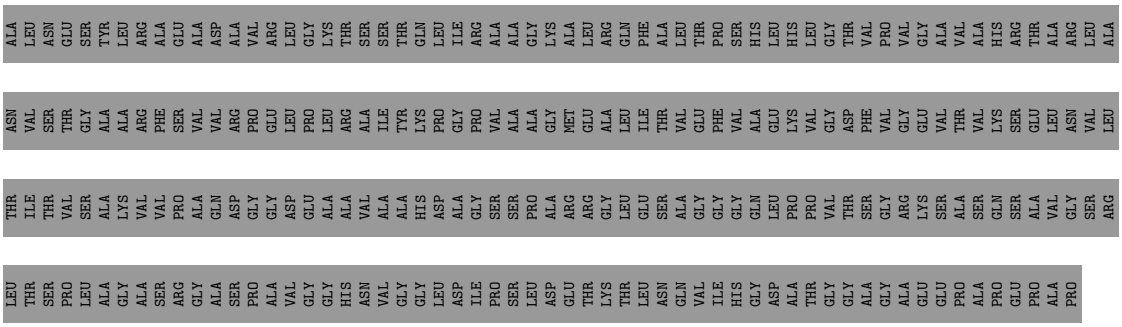
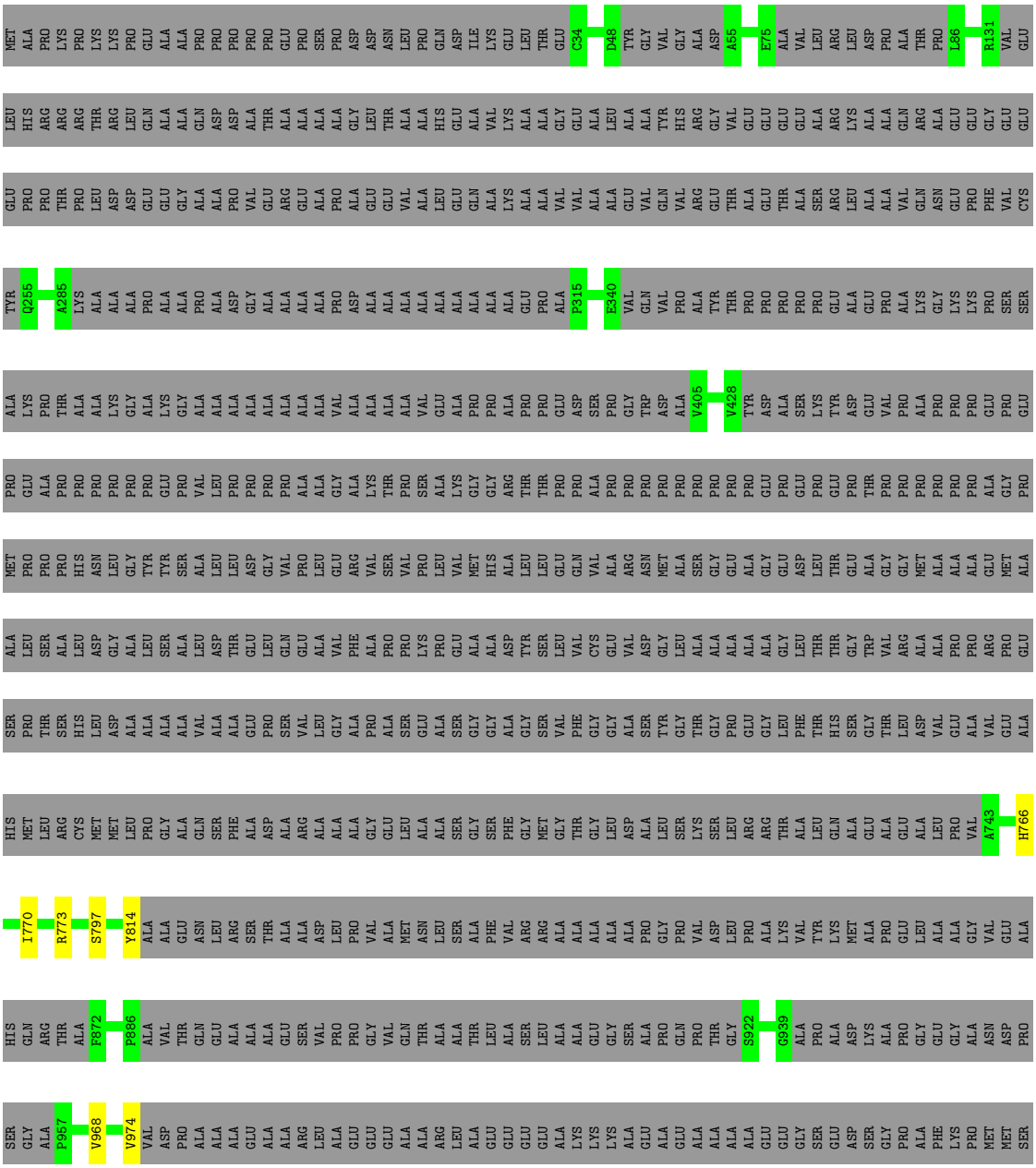
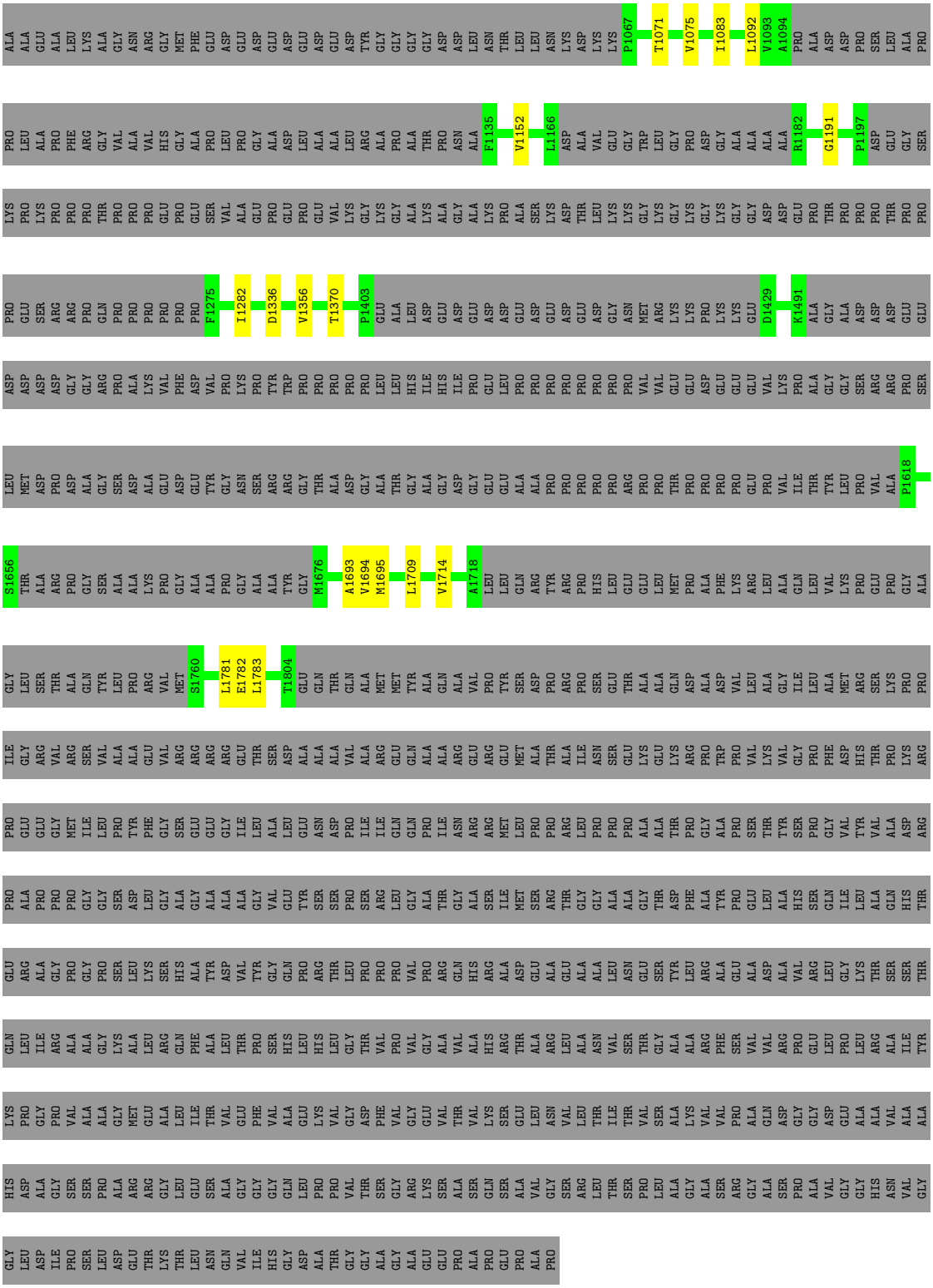


• Molecule 15: PF6

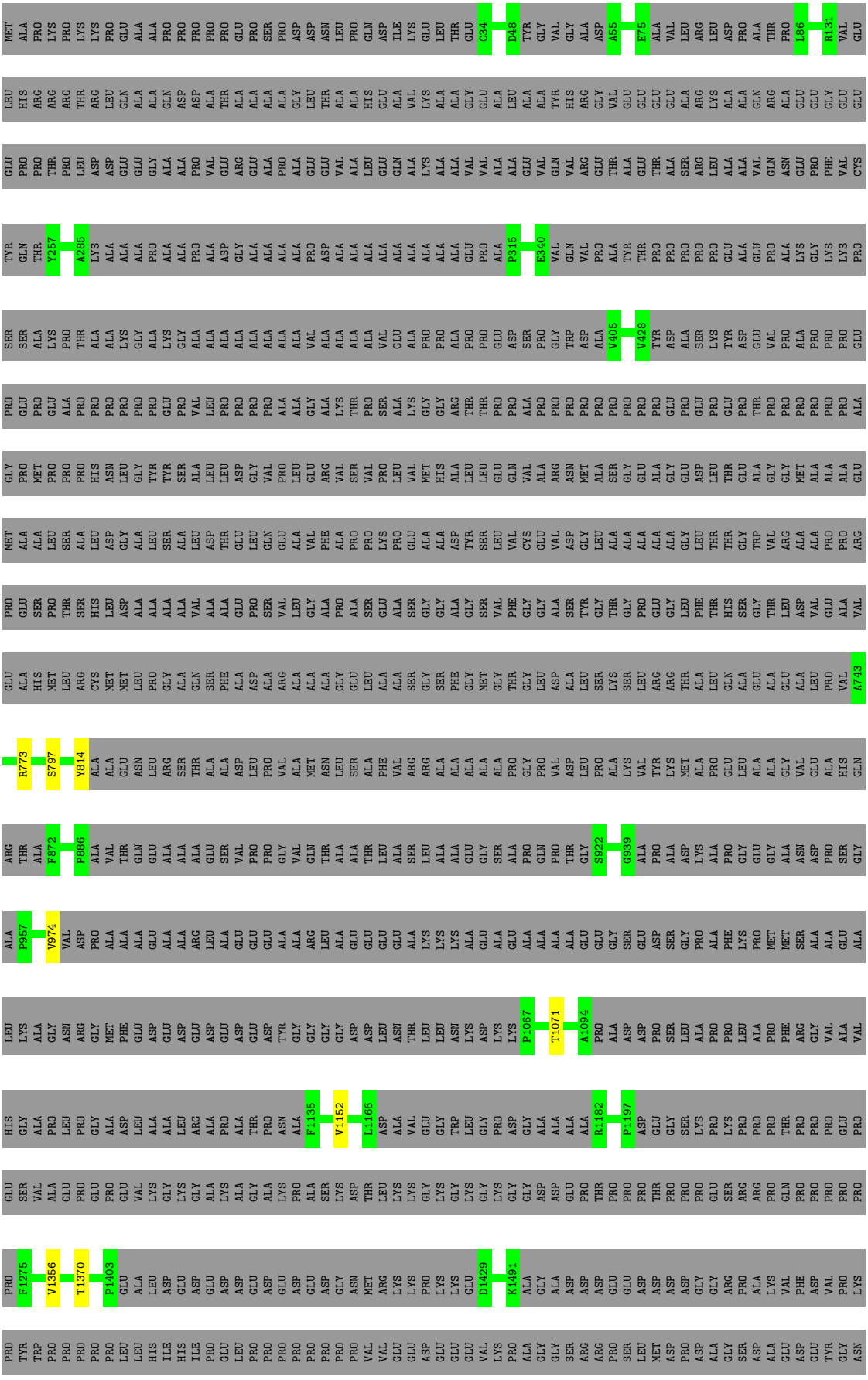
Chain 9E:





• Molecule 15: PF6

Chain 9F: 29% 70%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A743
F872
P886
S922
G939
P957
V974
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T1071
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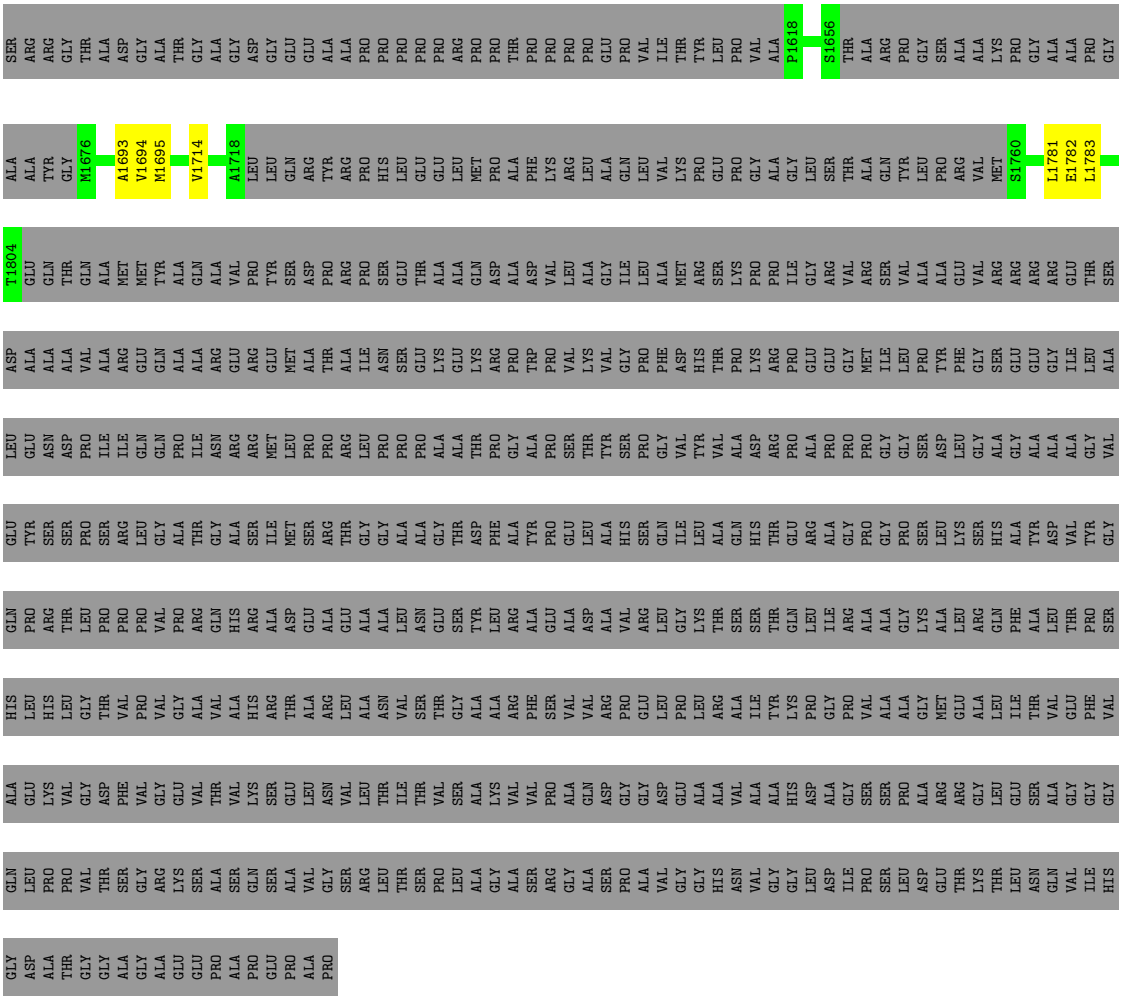
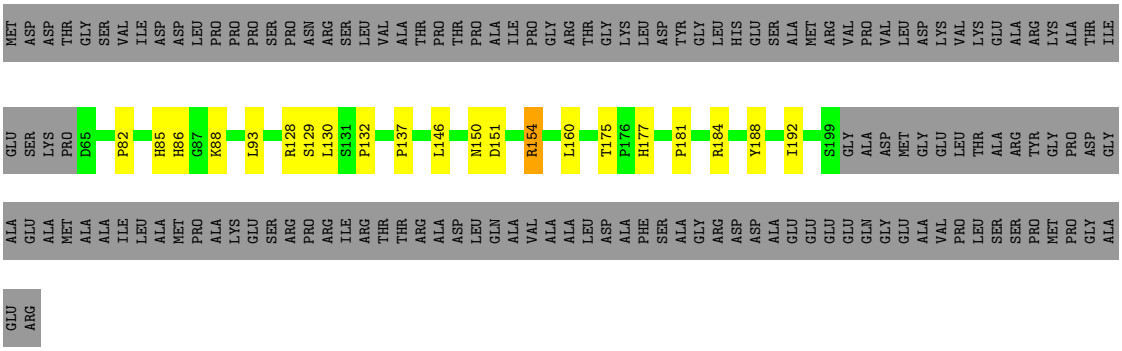


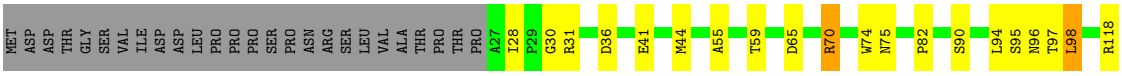
• Molecule 16: FAP219

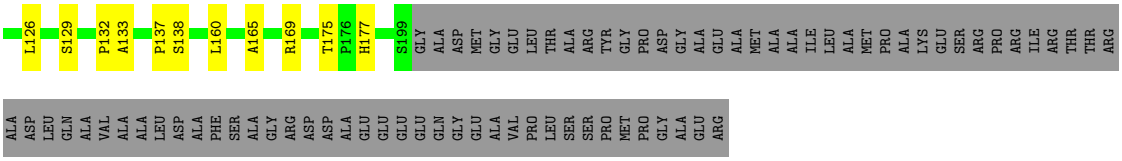
Chain A0:



• Molecule 16: FAP219

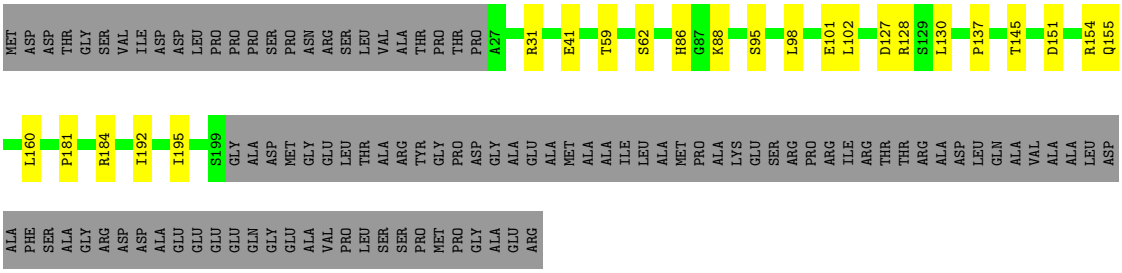
Chain A1:





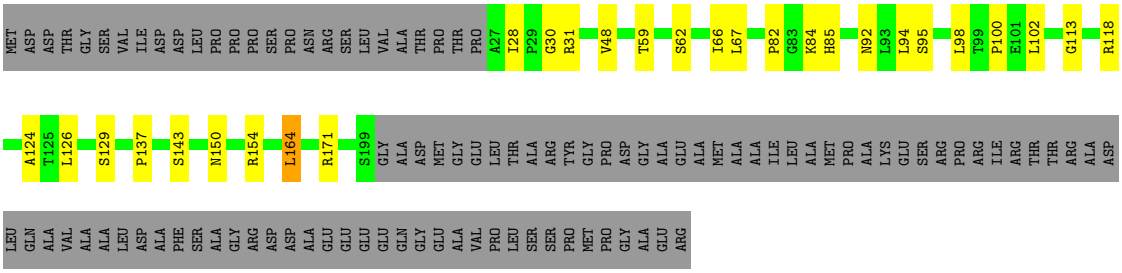
• Molecule 16: FAP219

Chain A2:



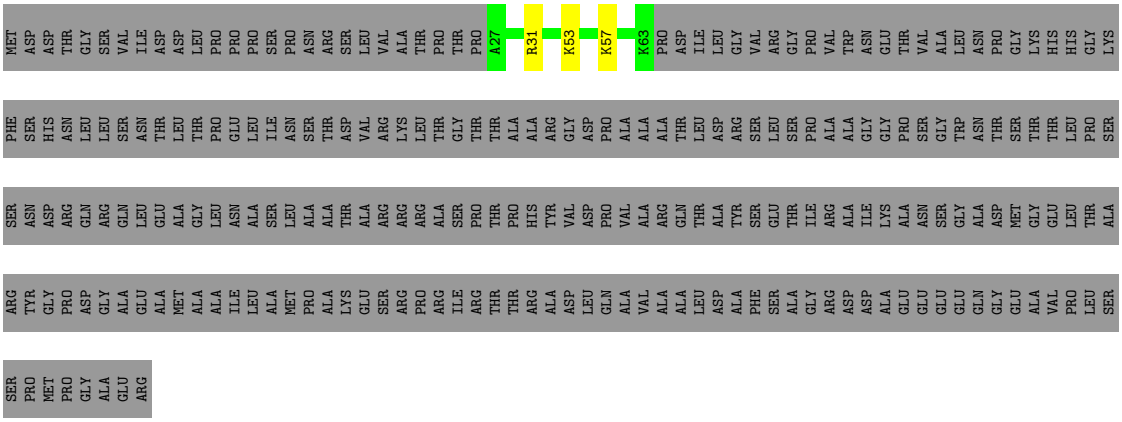
• Molecule 16: FAP219

Chain A3:



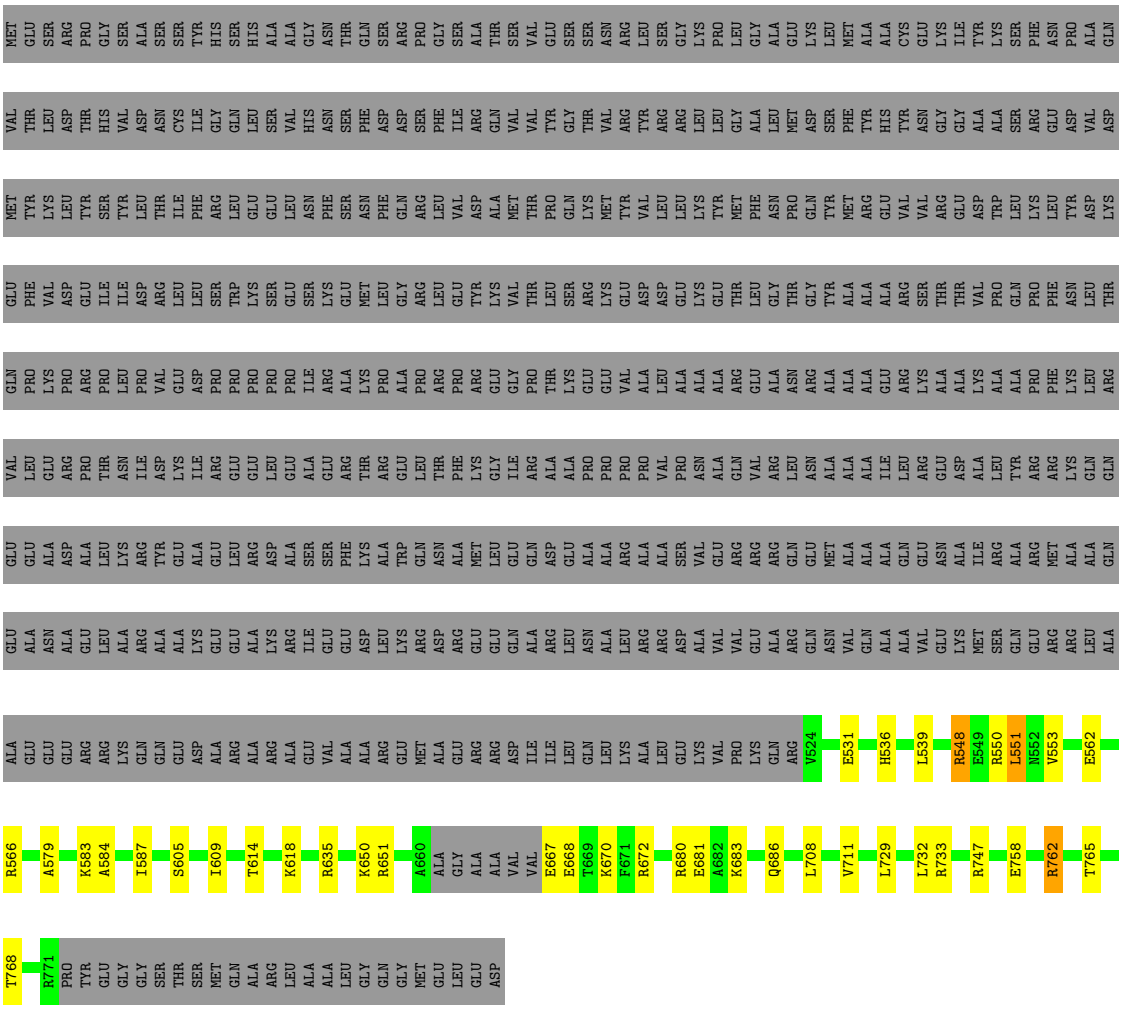
• Molecule 16: FAP219

Chain A4:



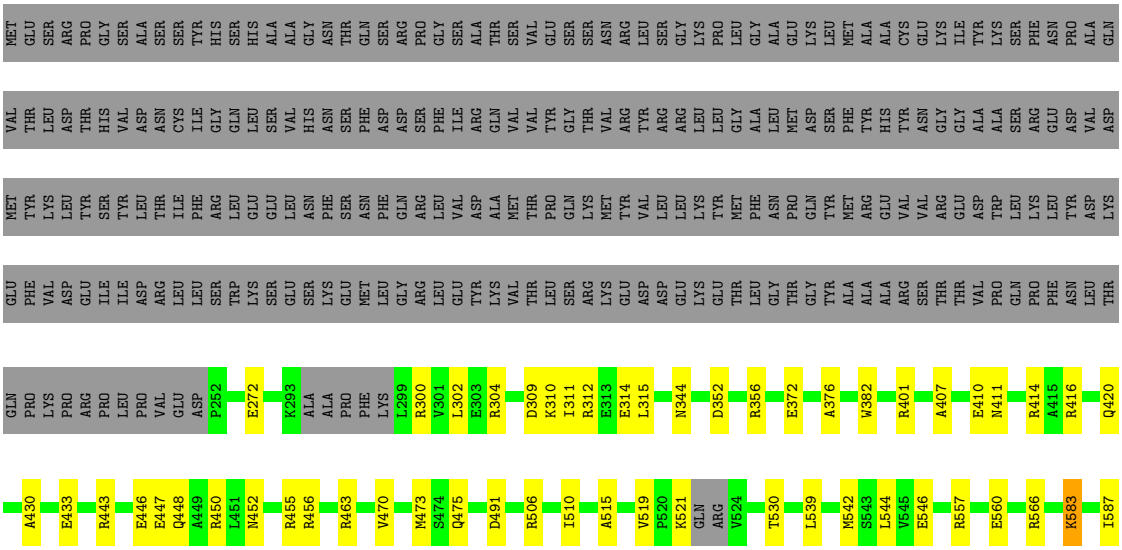
• Molecule 17: FAP99

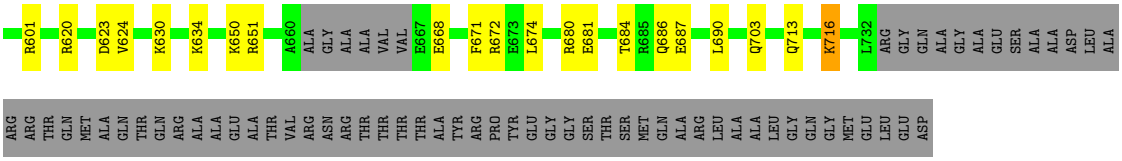
Chain B0:



• Molecule 17: FAP99

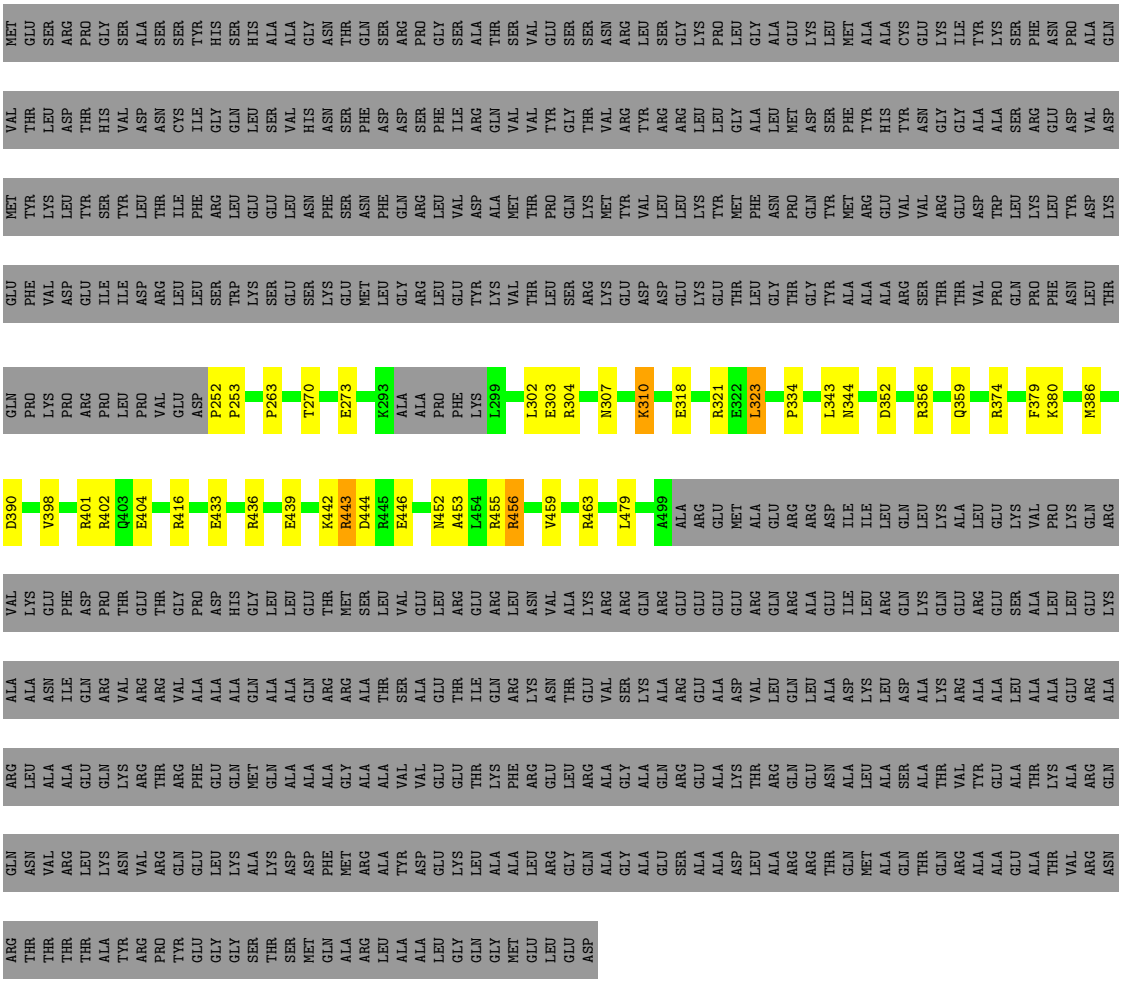
Chain B1:





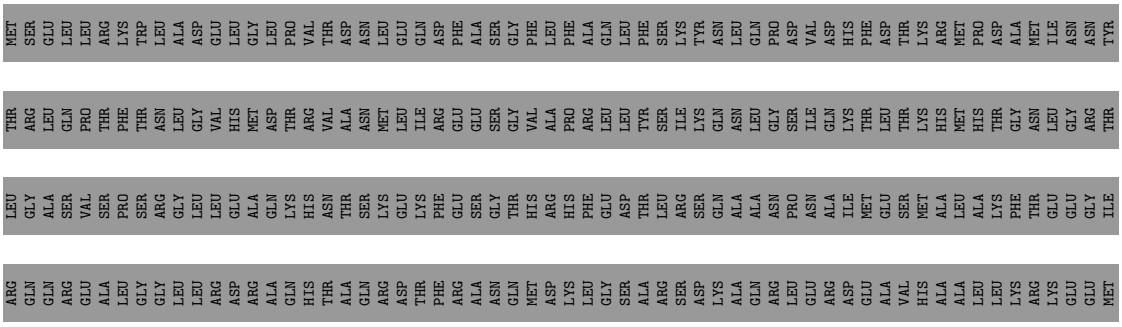
• Molecule 17: FAP99

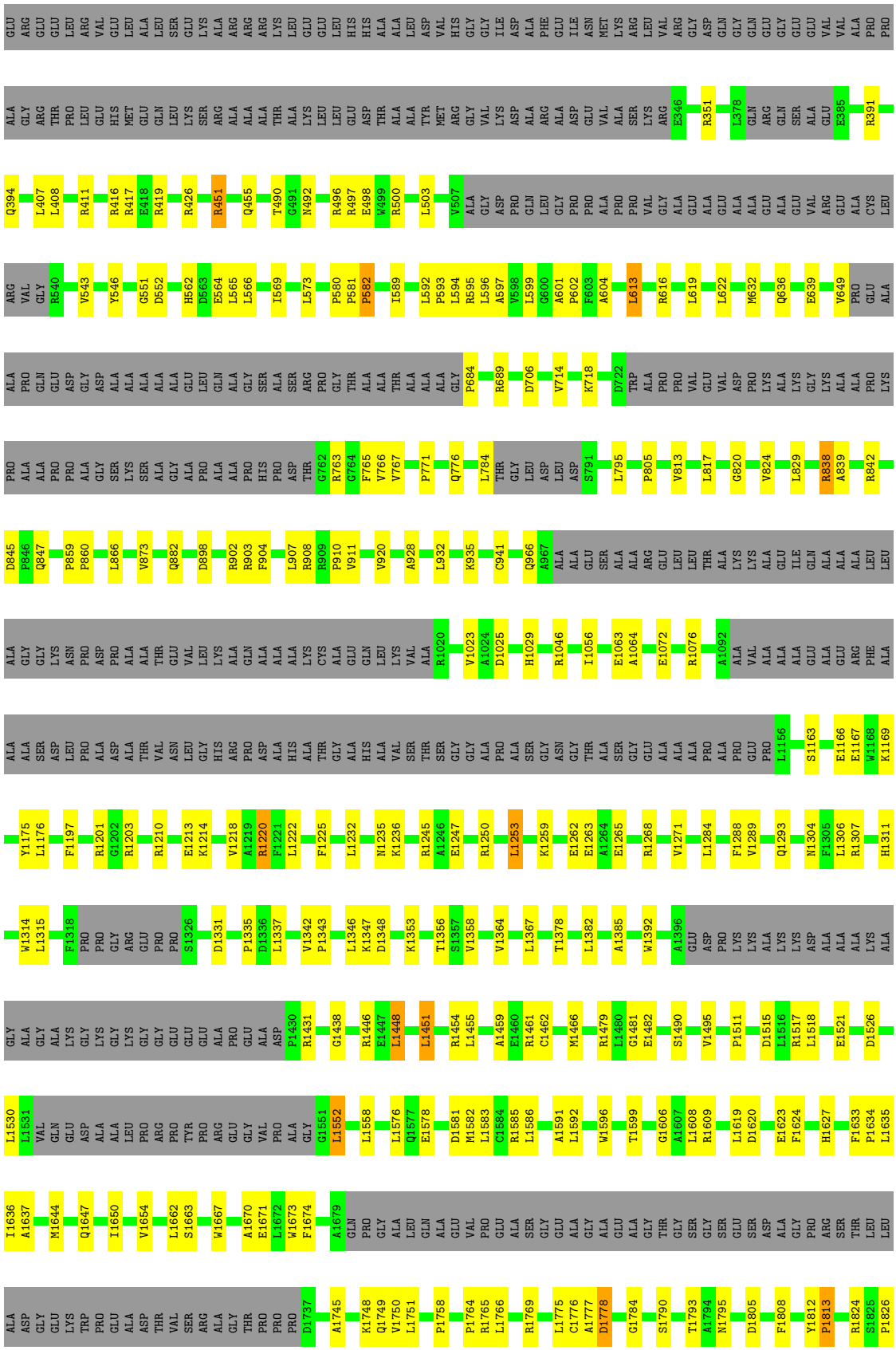
Chain B2:

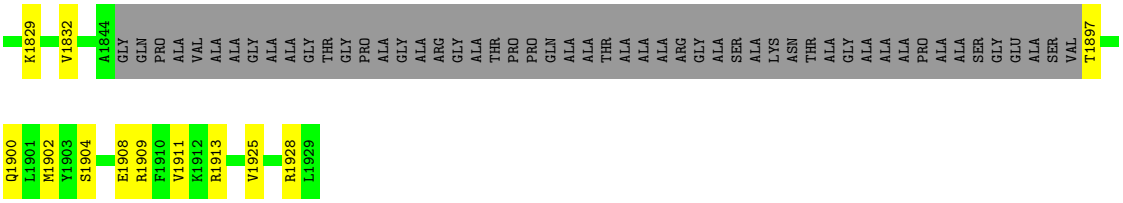


• Molecule 18: CPC1

Chain C0:

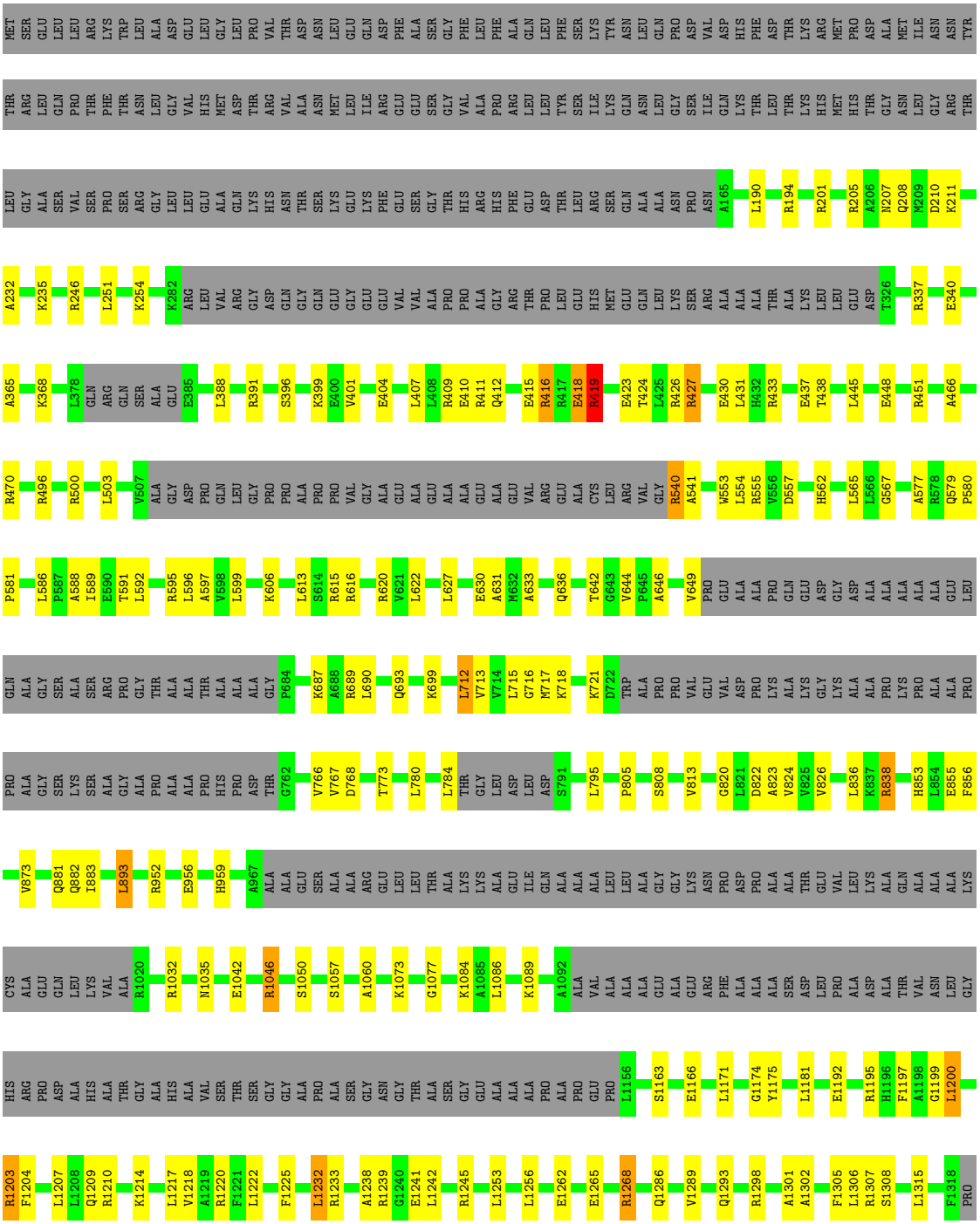


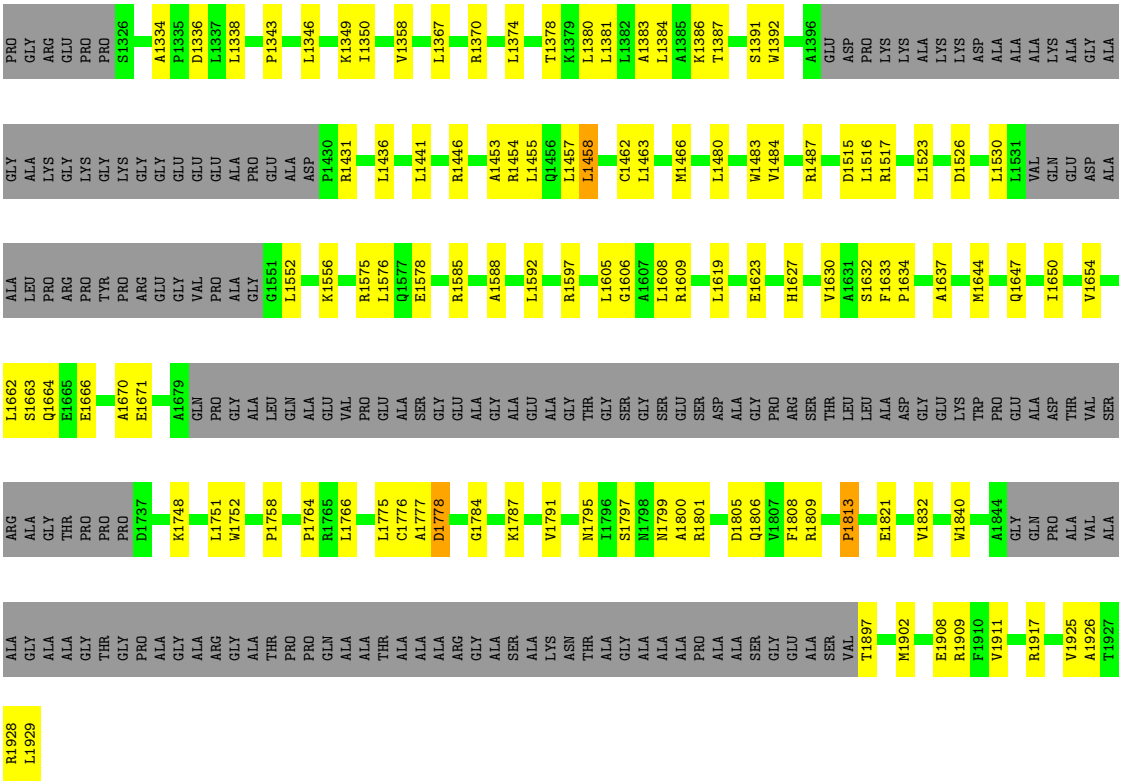




• Molecule 18: CPC1

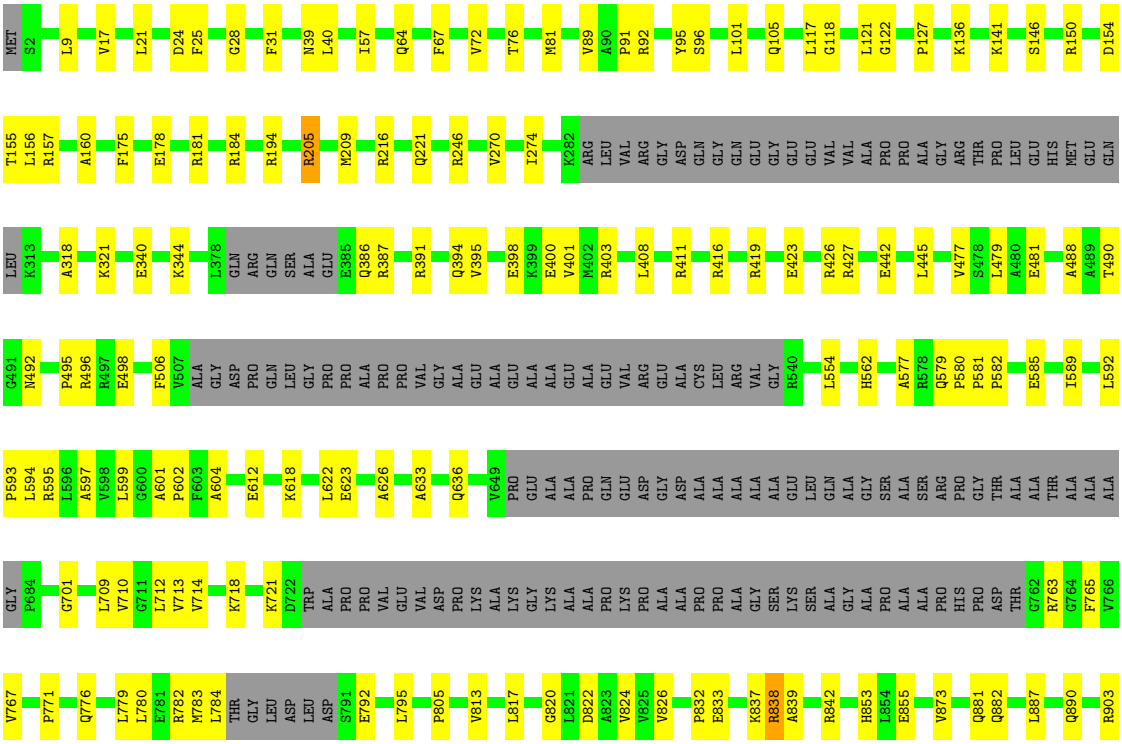
Chain C1:

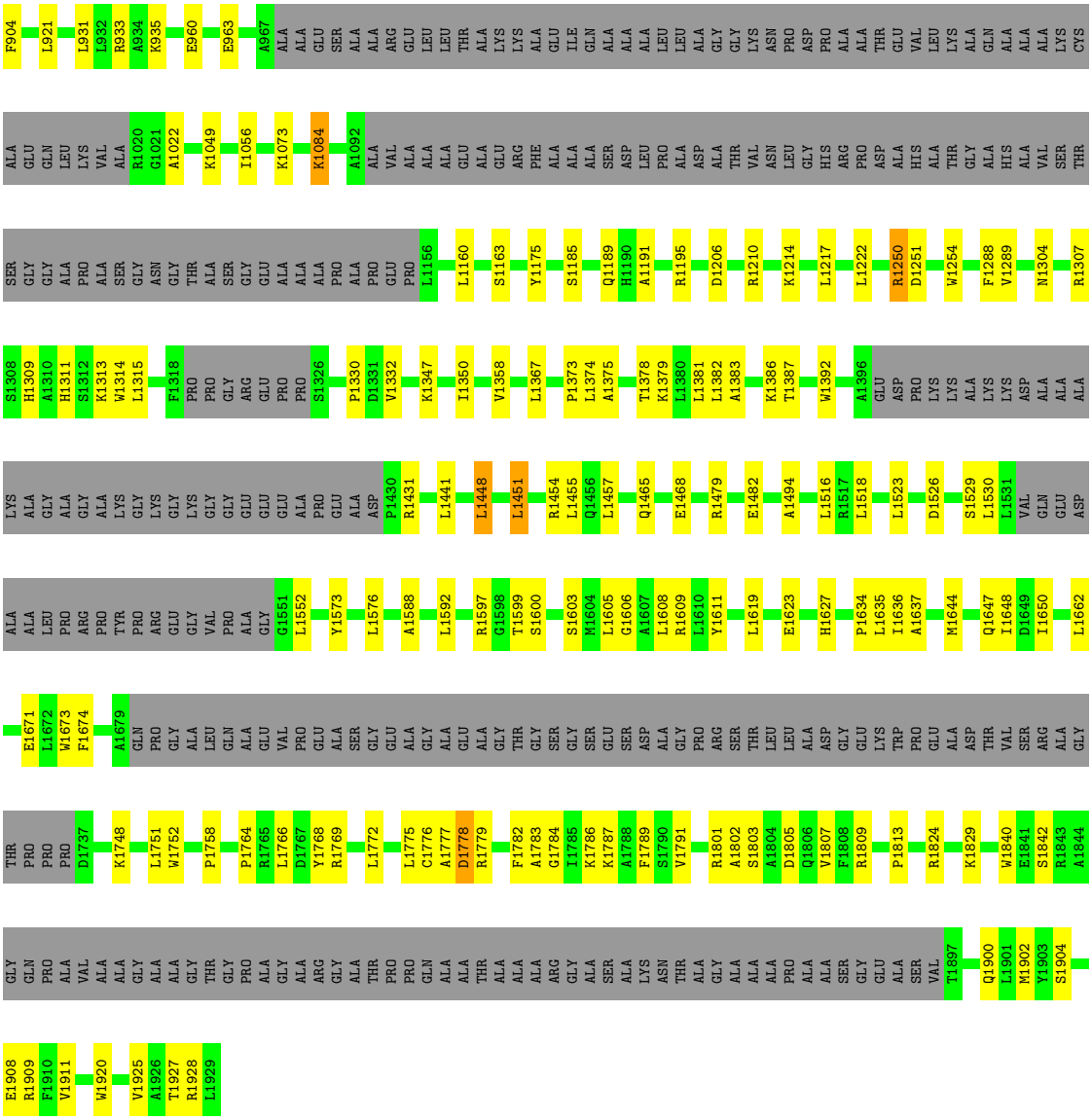




• Molecule 18: CPC1

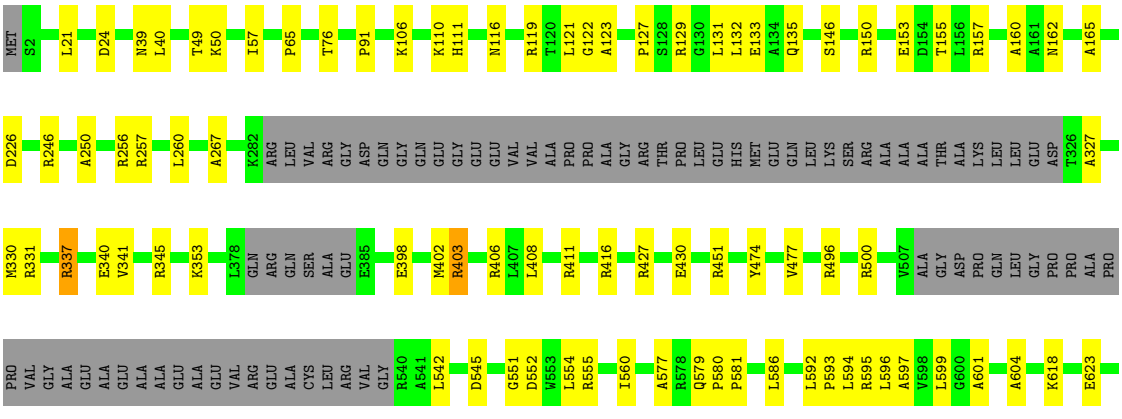
Chain C2:

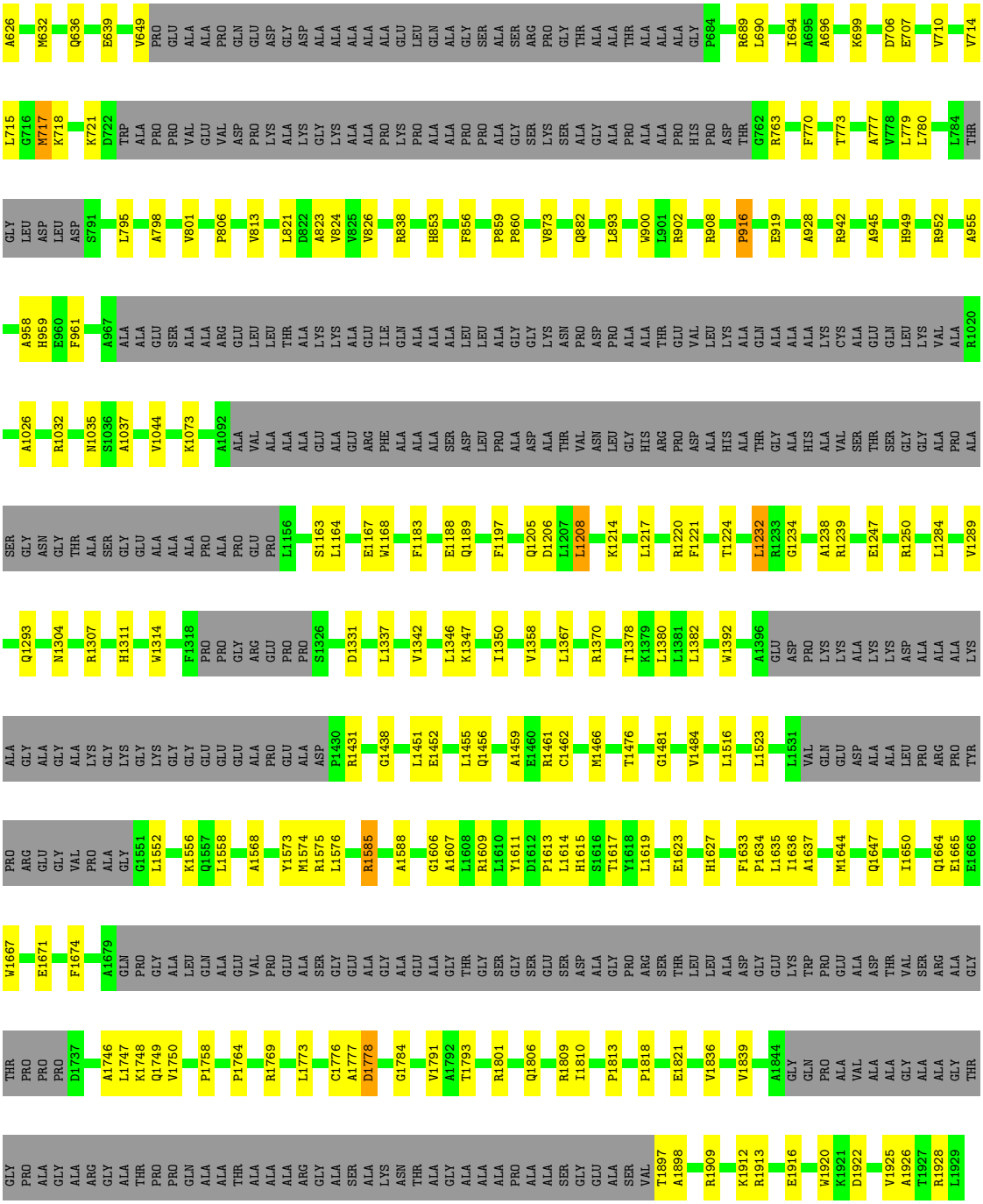




- Molecule 18: CPC1

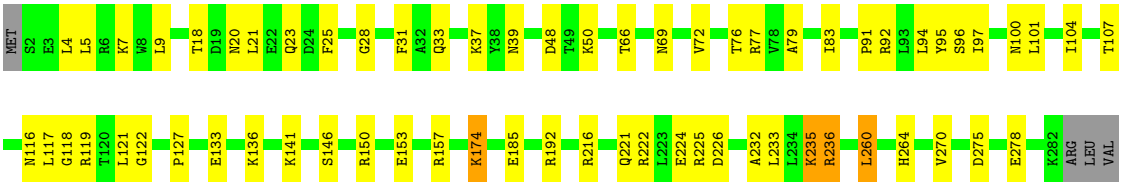
Chain C3:

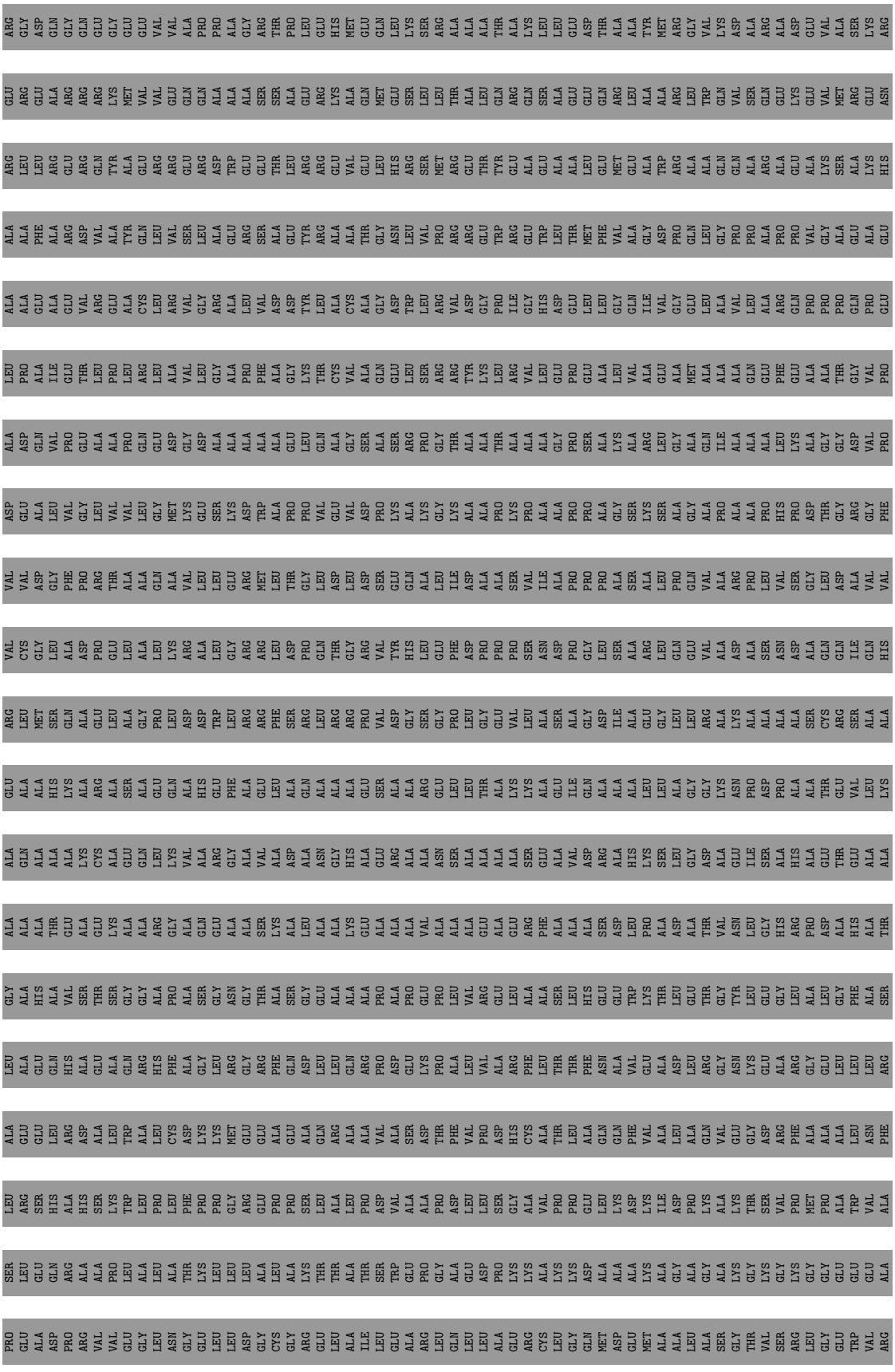


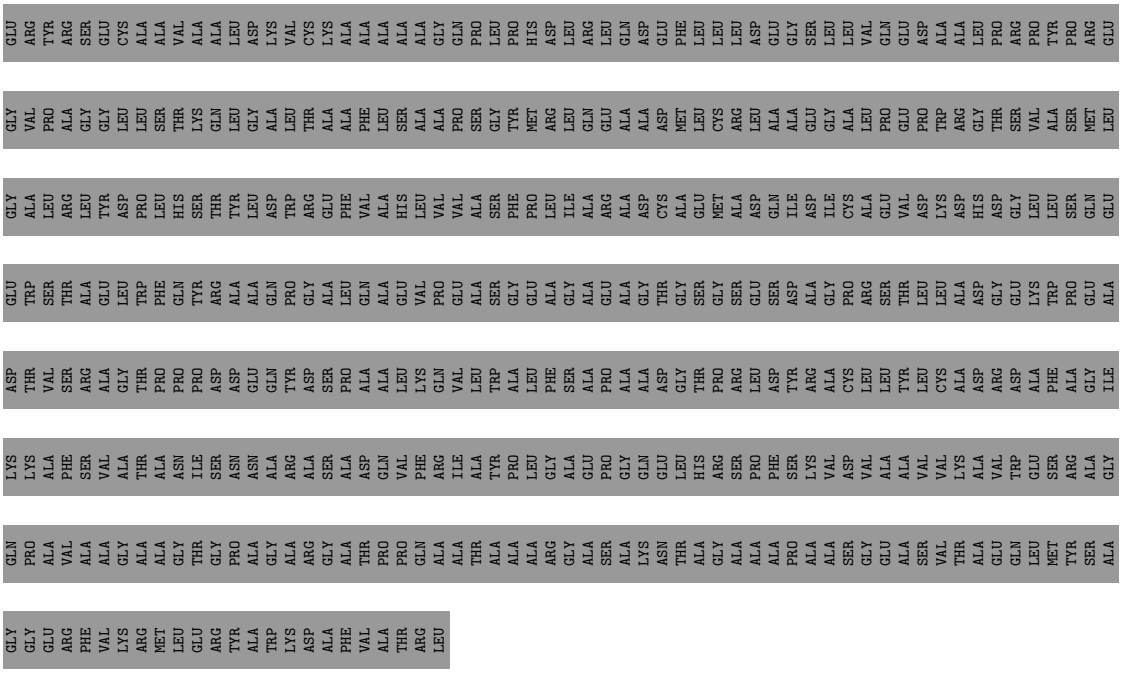


• Molecule 18: CPC1

Chain C4: 11% • 85%

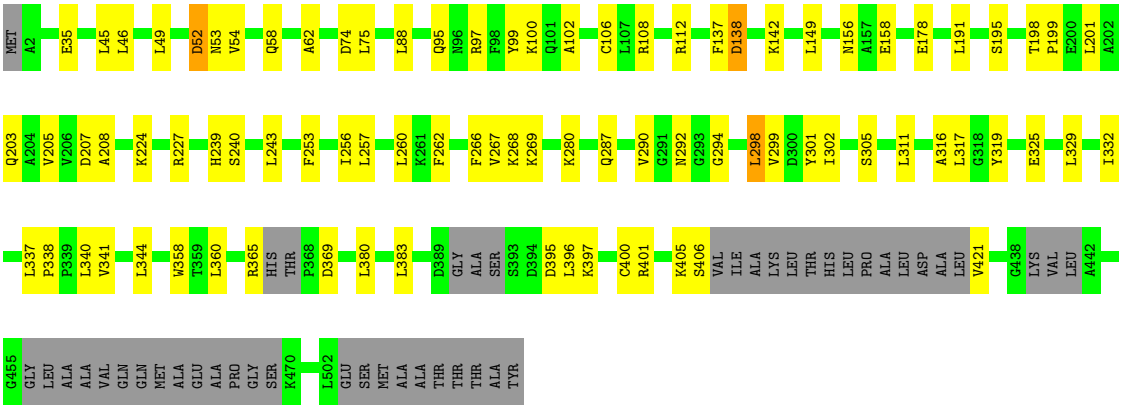






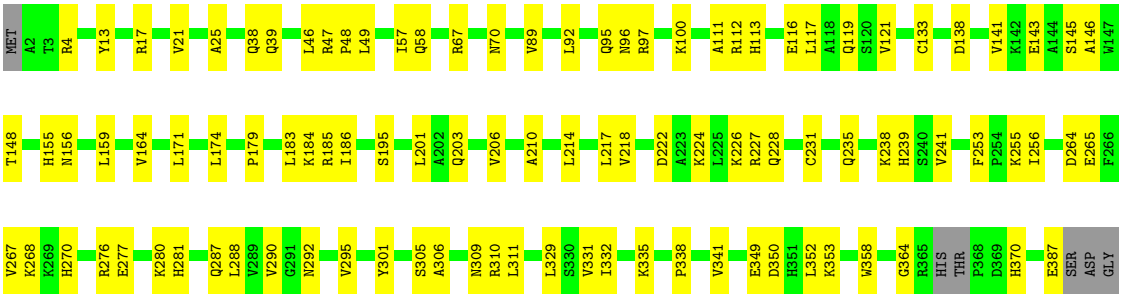
• Molecule 19: PF16

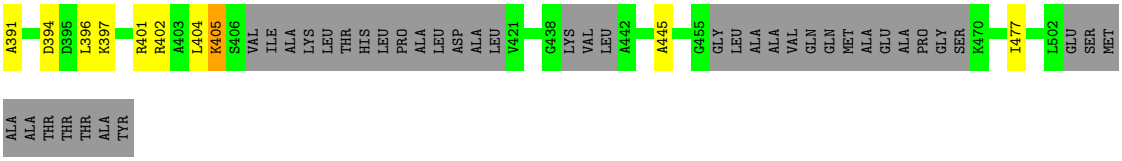
Chain D0:



• Molecule 19: PF16

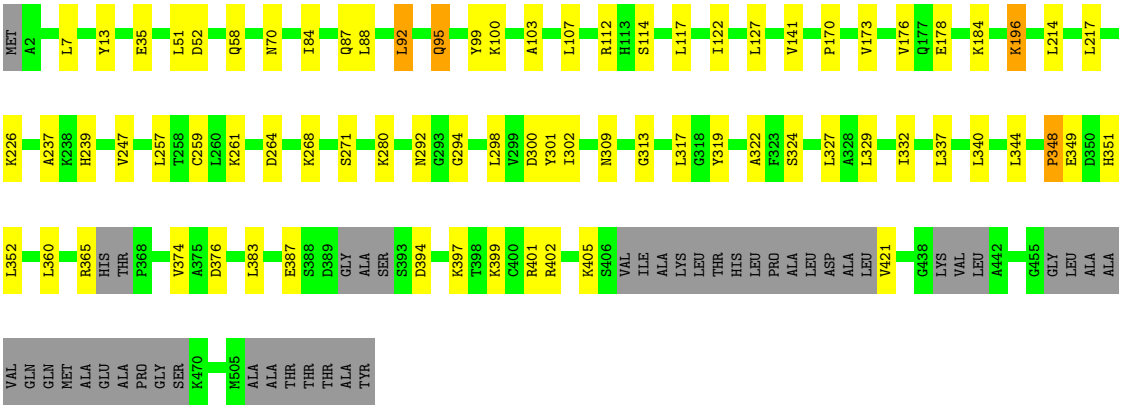
Chain D1:





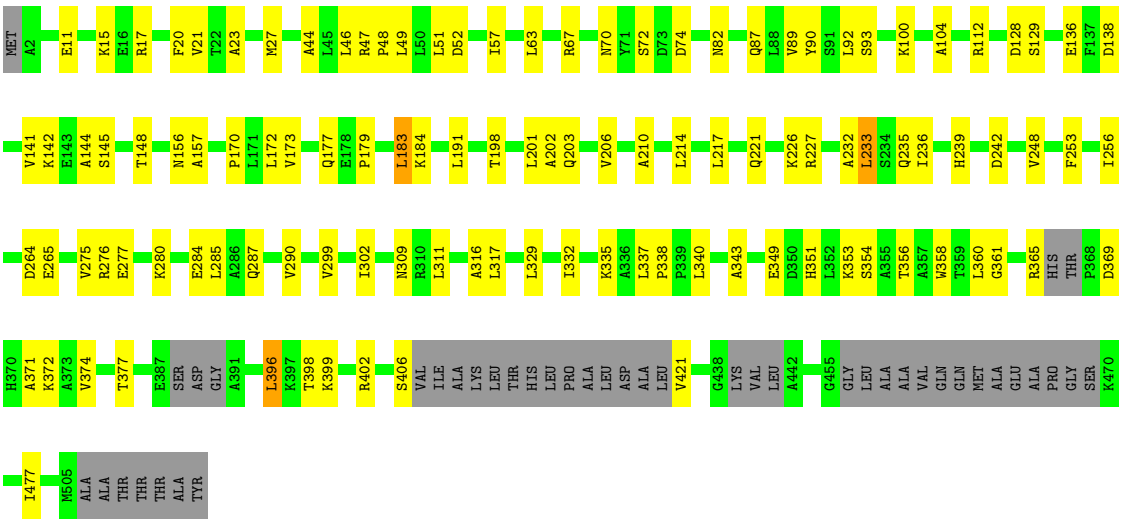
• Molecule 19: PF16

Chain D2:



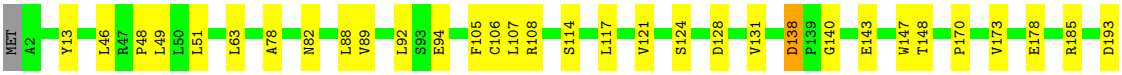
• Molecule 19: PF16

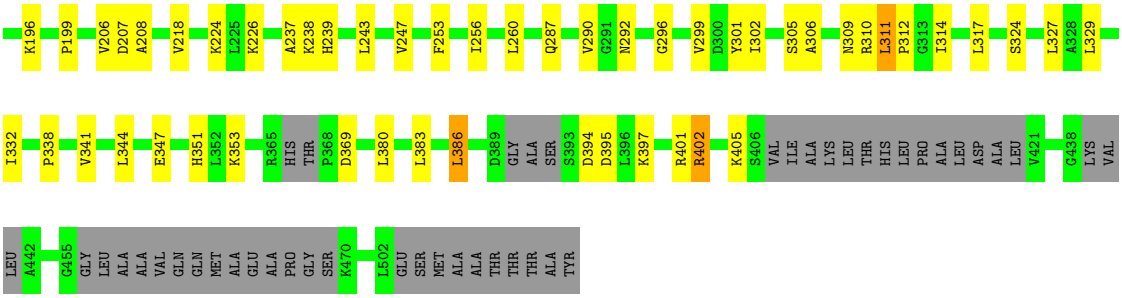
Chain D3:



• Molecule 19: PF16

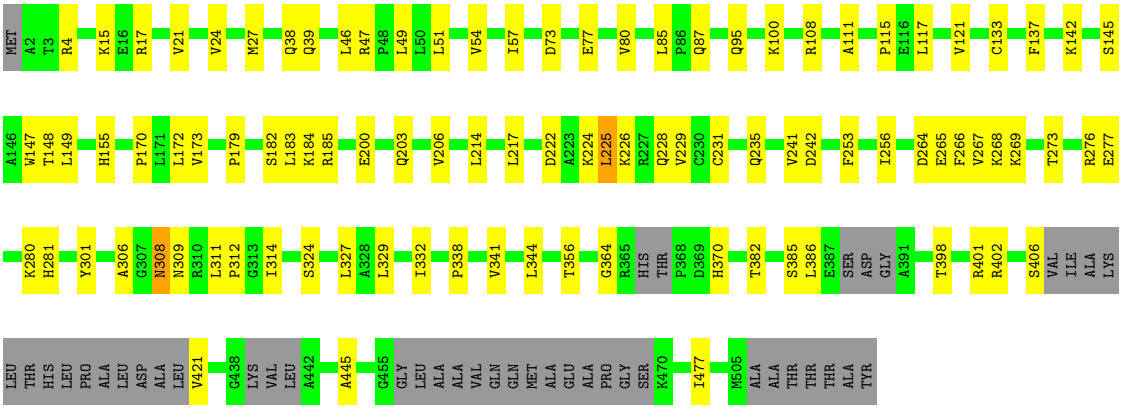
Chain D4:





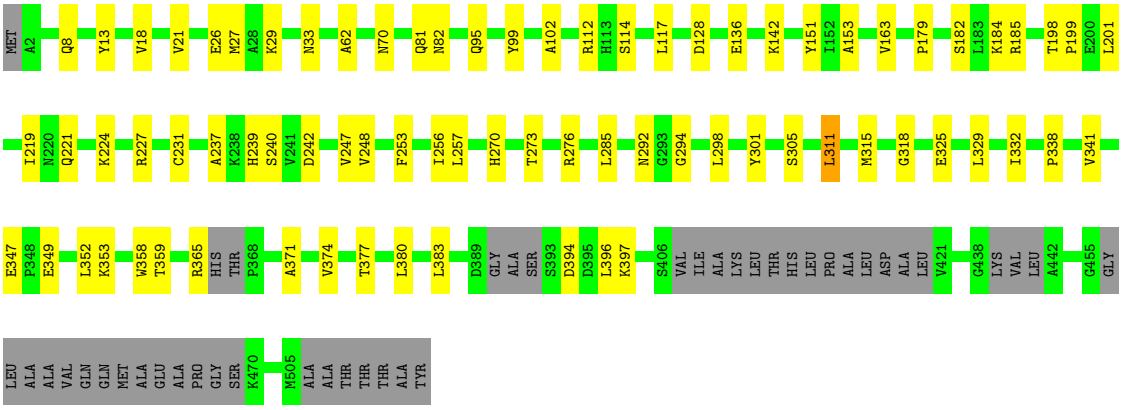
• Molecule 19: PF16

Chain D5:



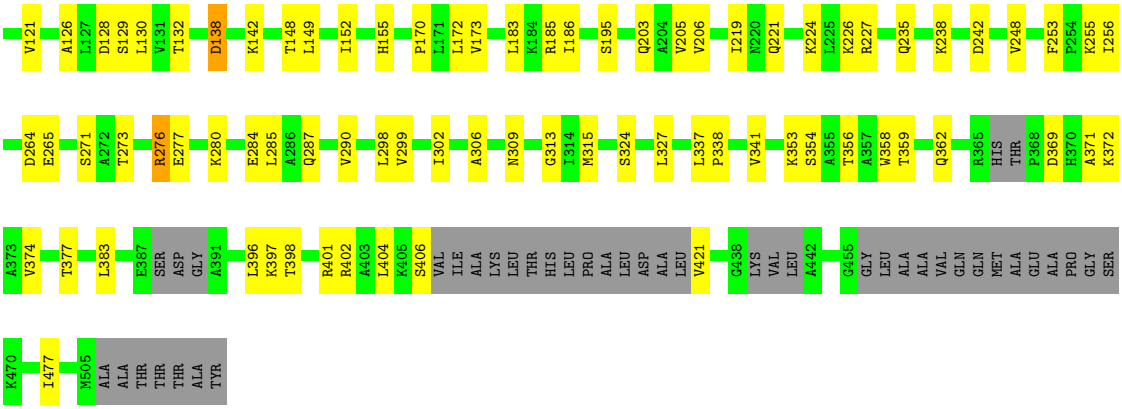
• Molecule 19: PF16

Chain D6:



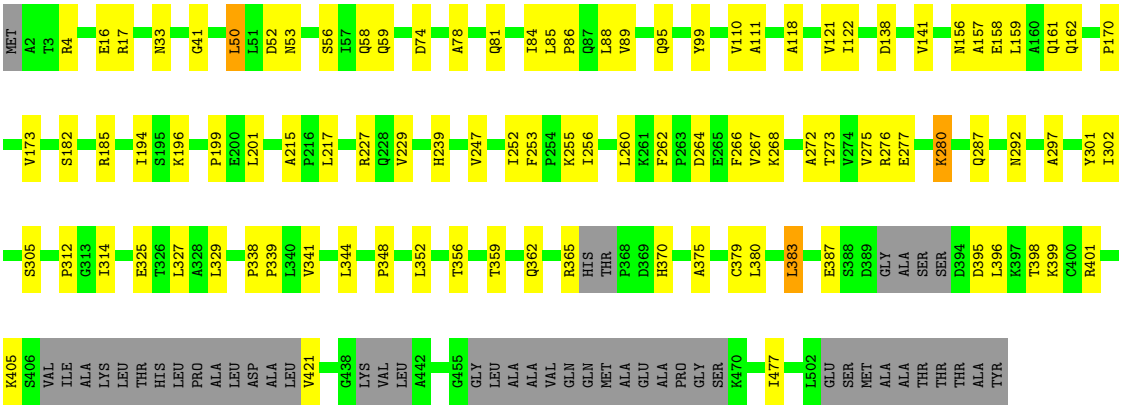
• Molecule 19: PF16

Chain D7:



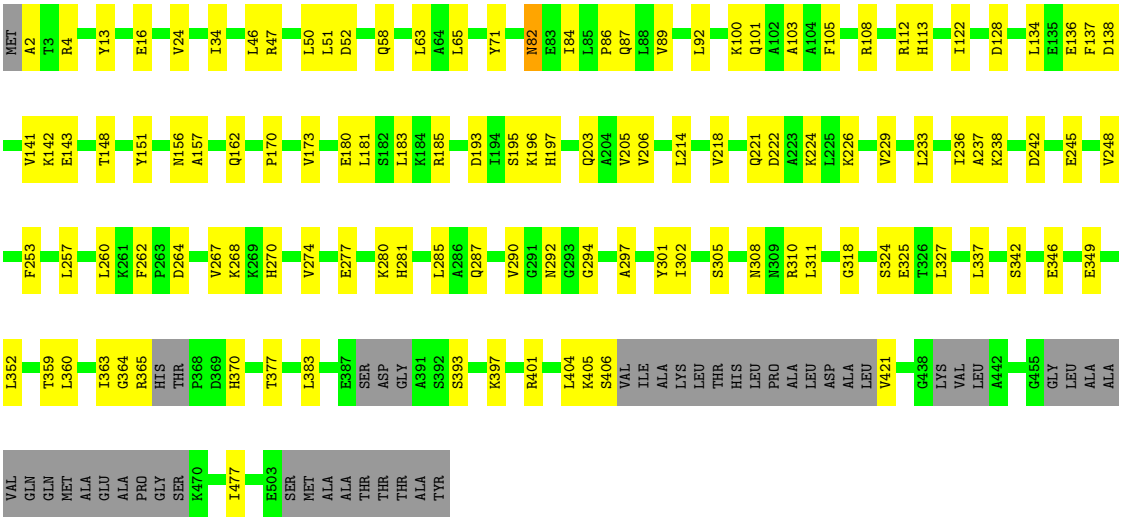
• Molecule 19: PF16

Chain G0:



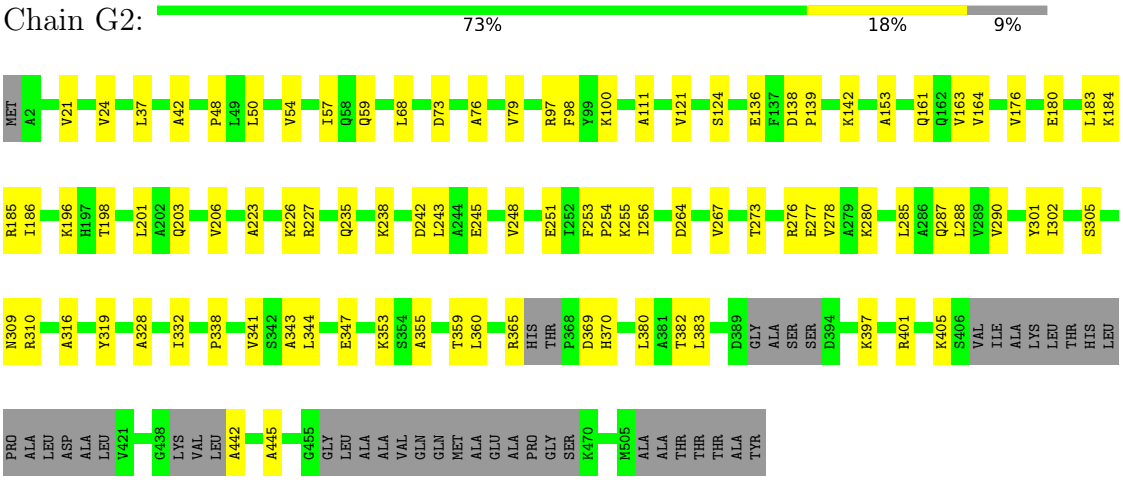
• Molecule 19: PF16

Chain G1:



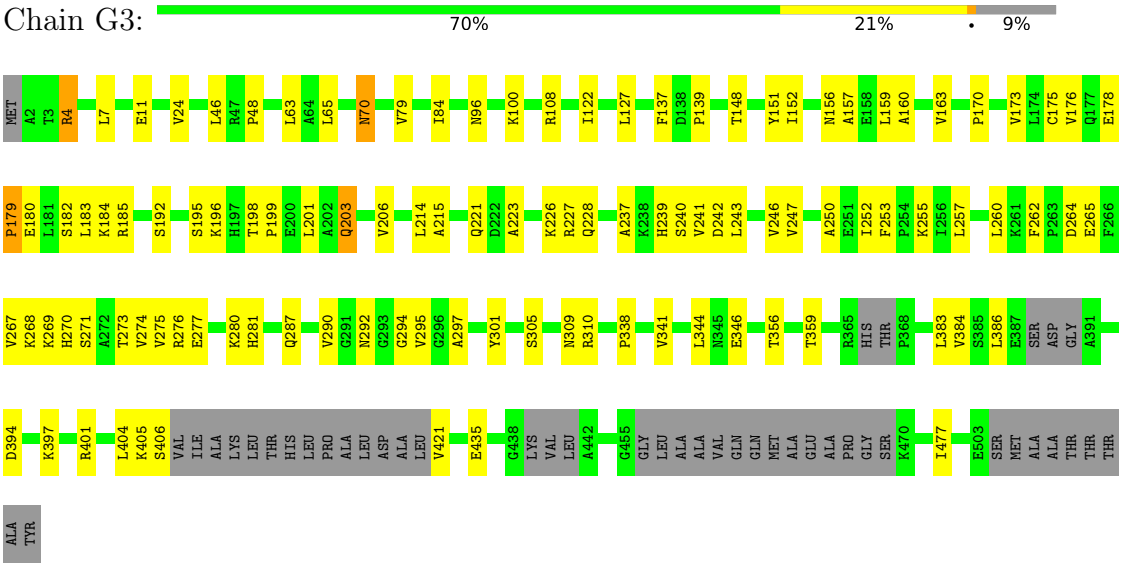
• Molecule 19: PF16

Chain G2:



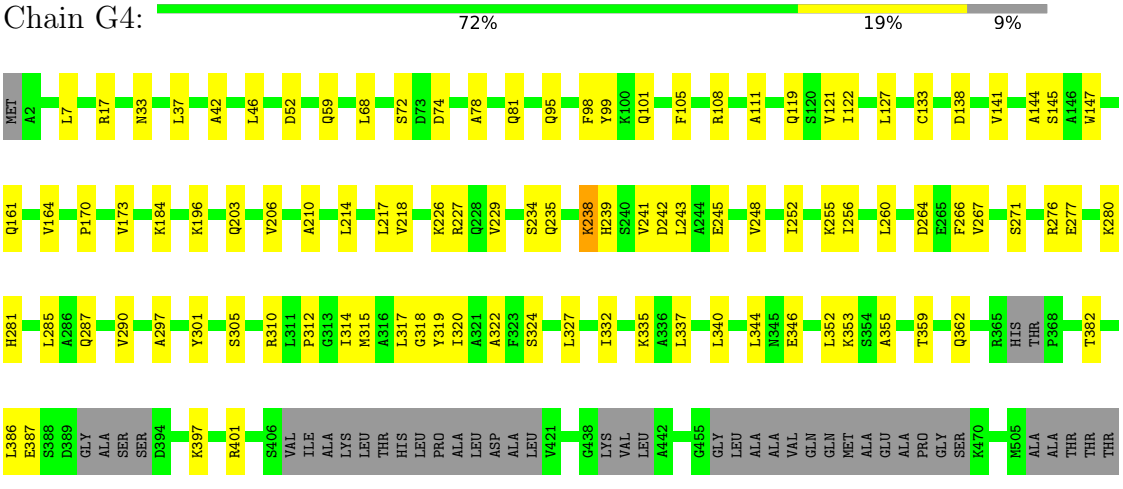
• Molecule 19: PF16

Chain G3:



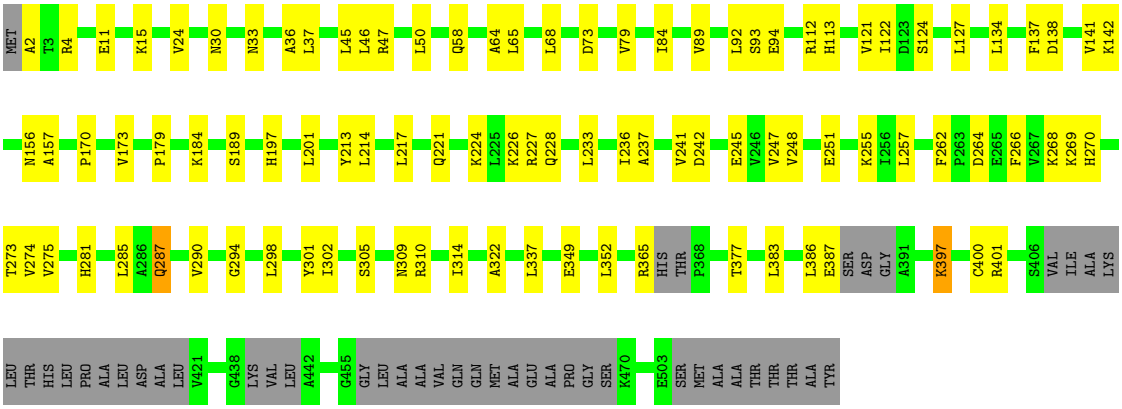
• Molecule 19: PF16

Chain G4:



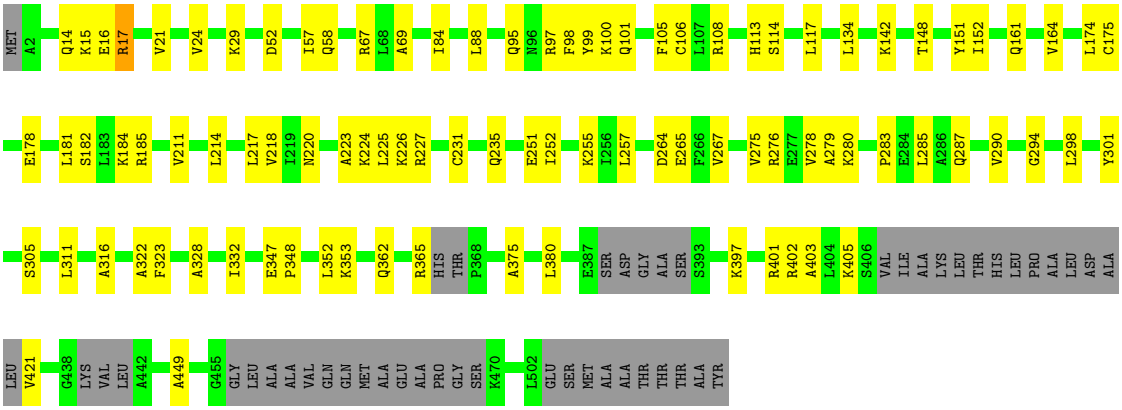
• Molecule 19: PF16

Chain G5:



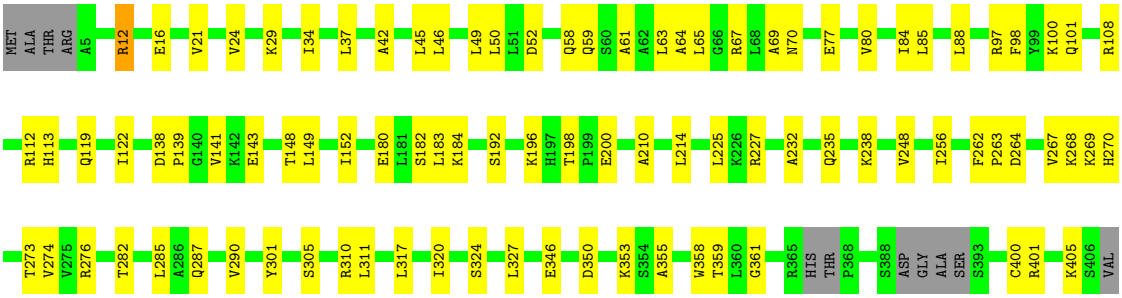
• Molecule 19: PF16

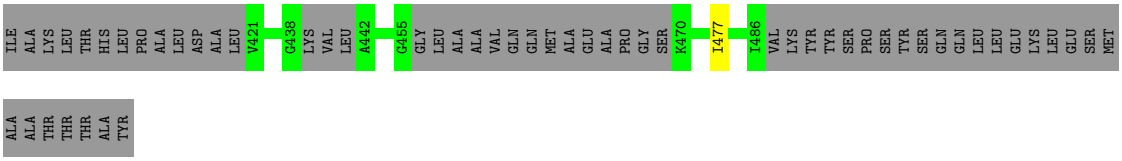
Chain H0:



• Molecule 19: PF16

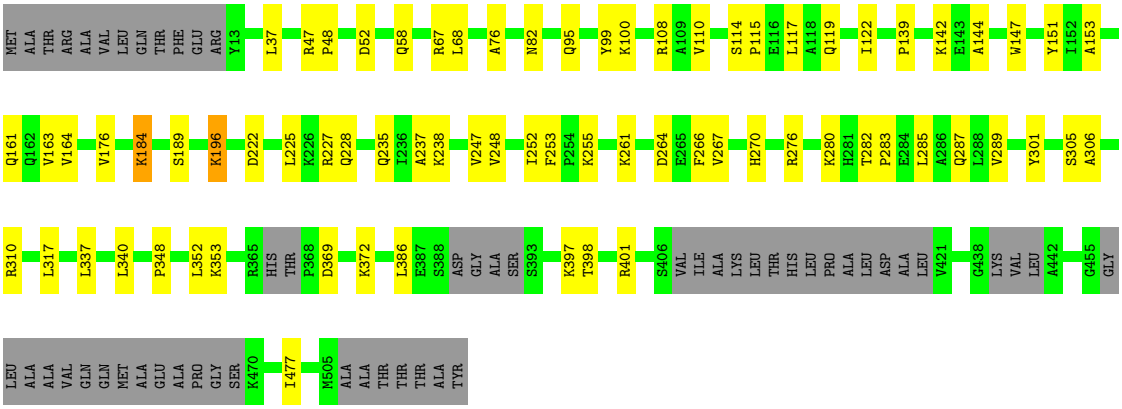
Chain H1:





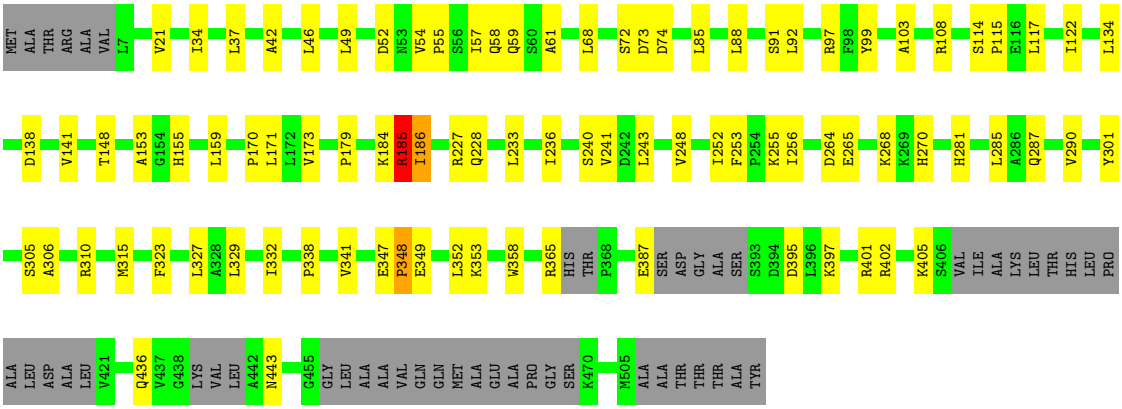
• Molecule 19: PF16

Chain H2:



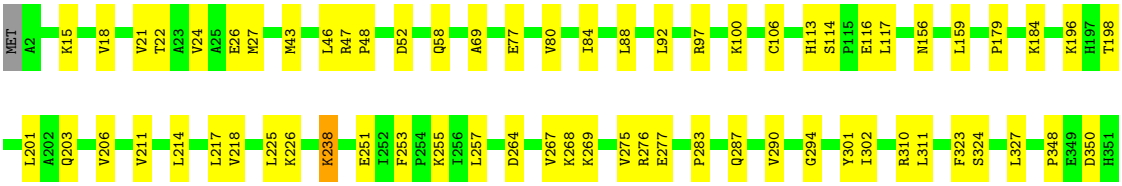
• Molecule 19: PF16

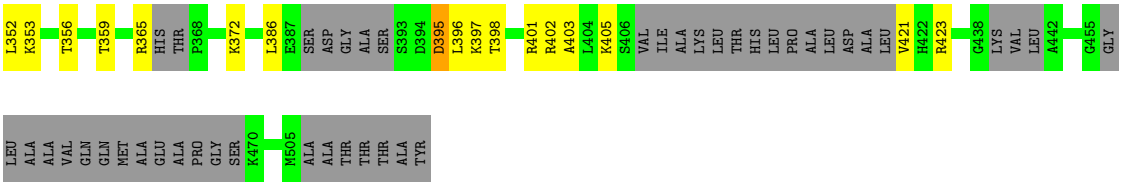
Chain H3:



• Molecule 19: PF16

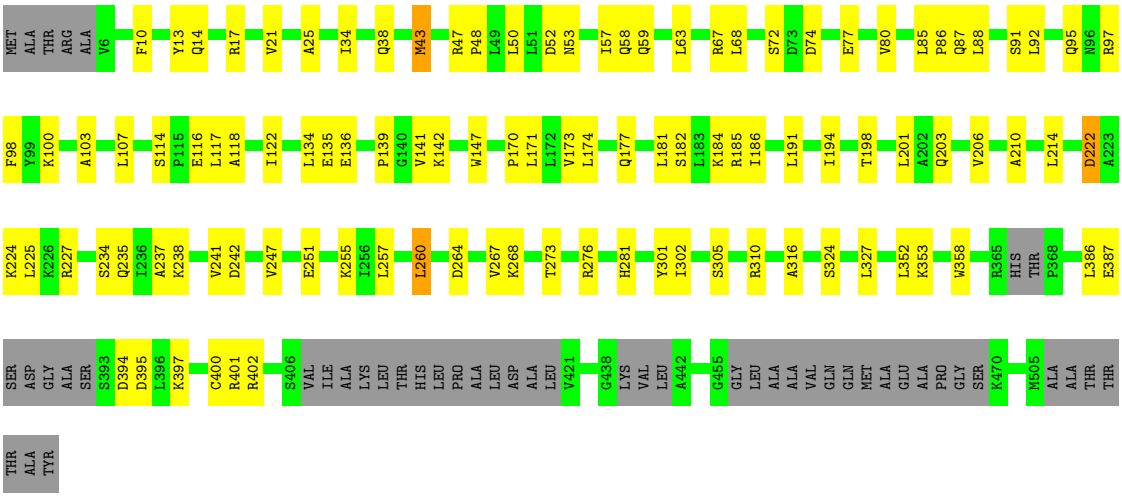
Chain H4:





• Molecule 19: PF16

Chain H5:



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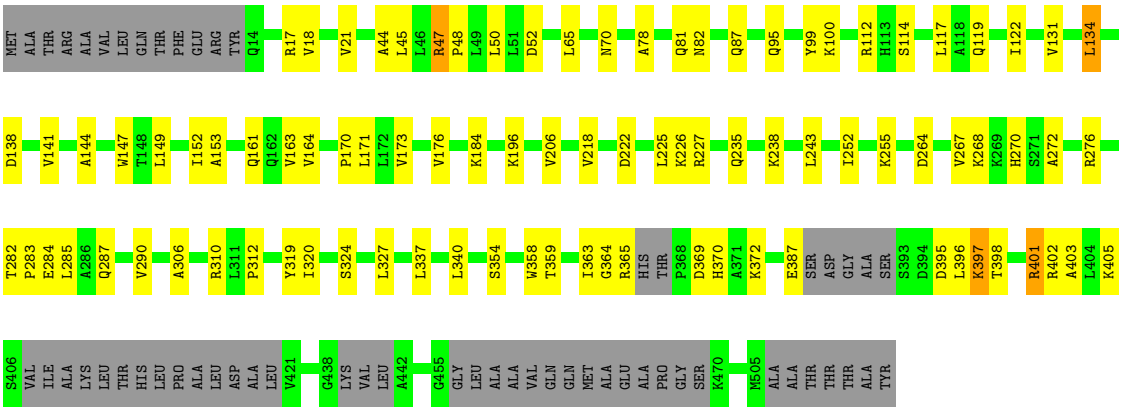
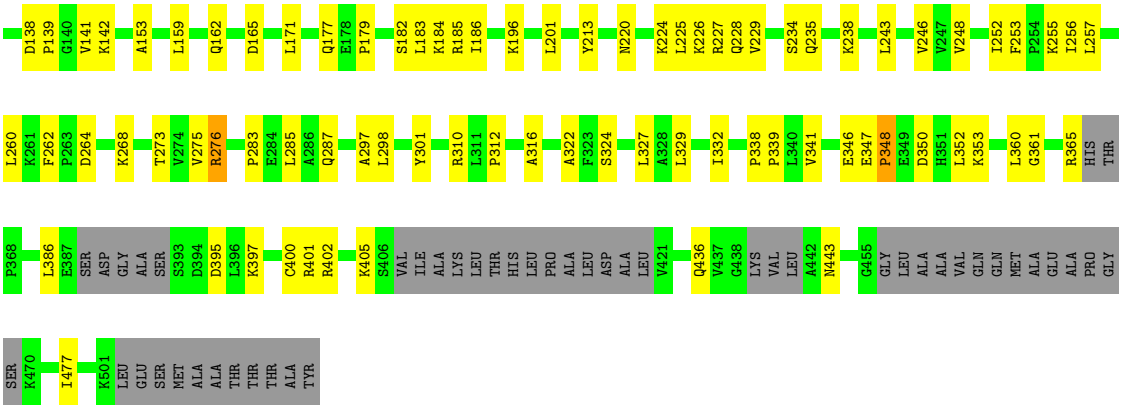


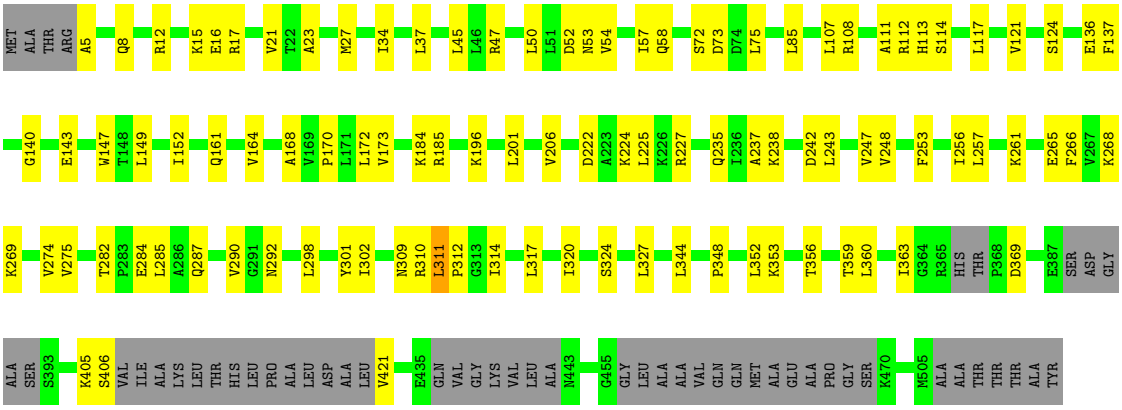
• Molecule 19: PF16

Chain H7:



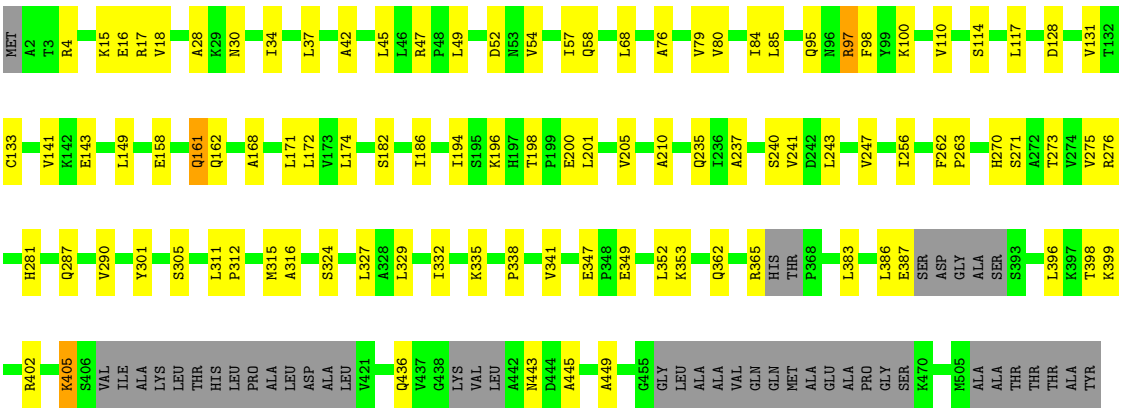
• Molecule 19: PF16

Chain I0:



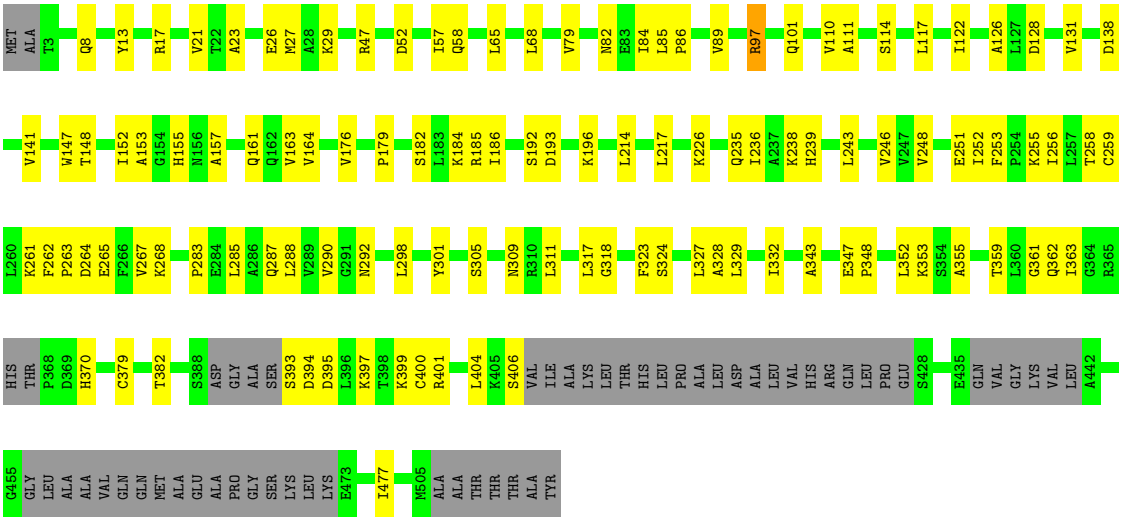
• Molecule 19: PF16

Chain I1:



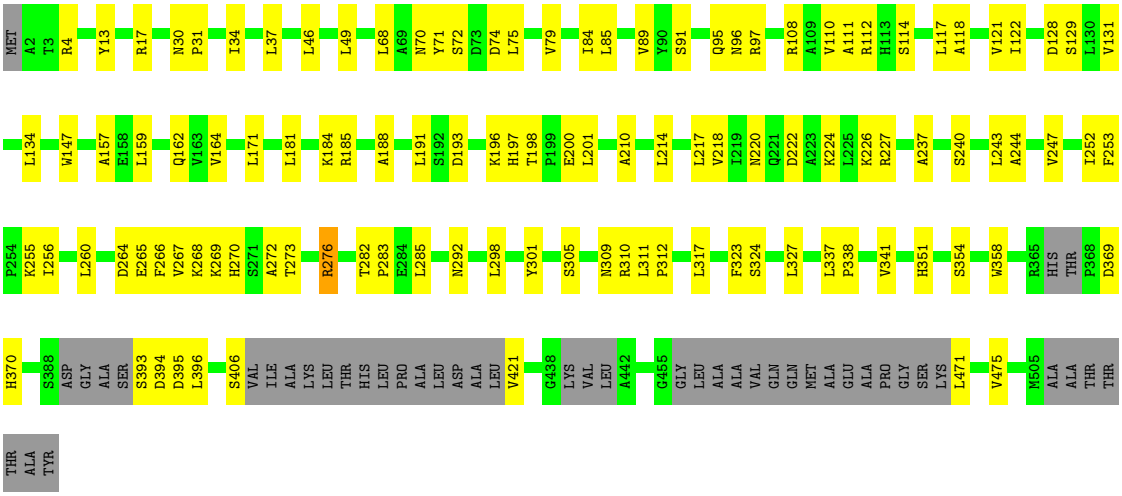
• Molecule 19: PF16

Chain J0:



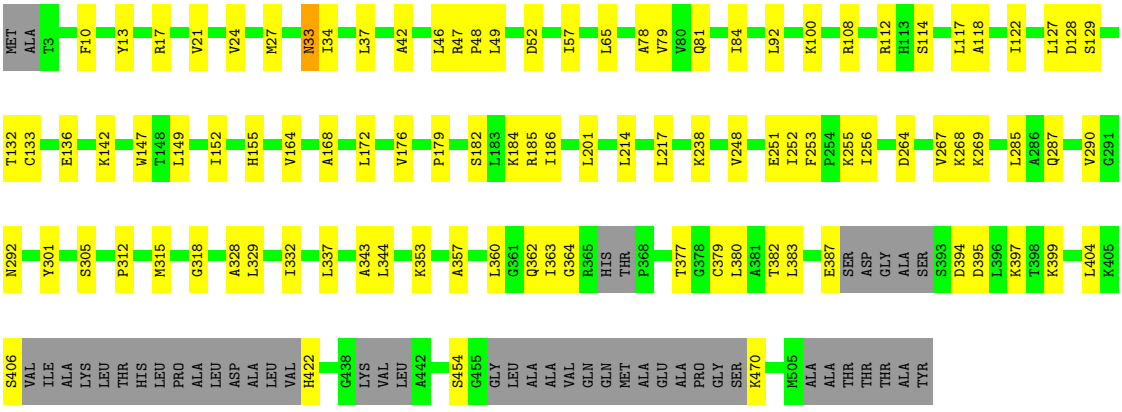
• Molecule 19: PF16

Chain J1:



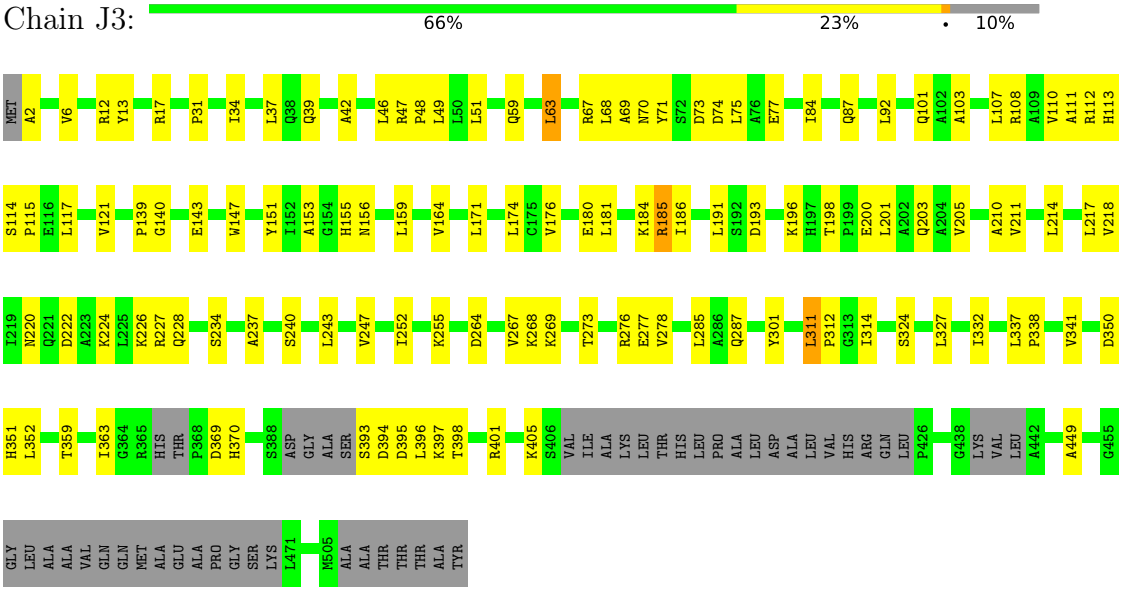
• Molecule 19: PF16

Chain J2:



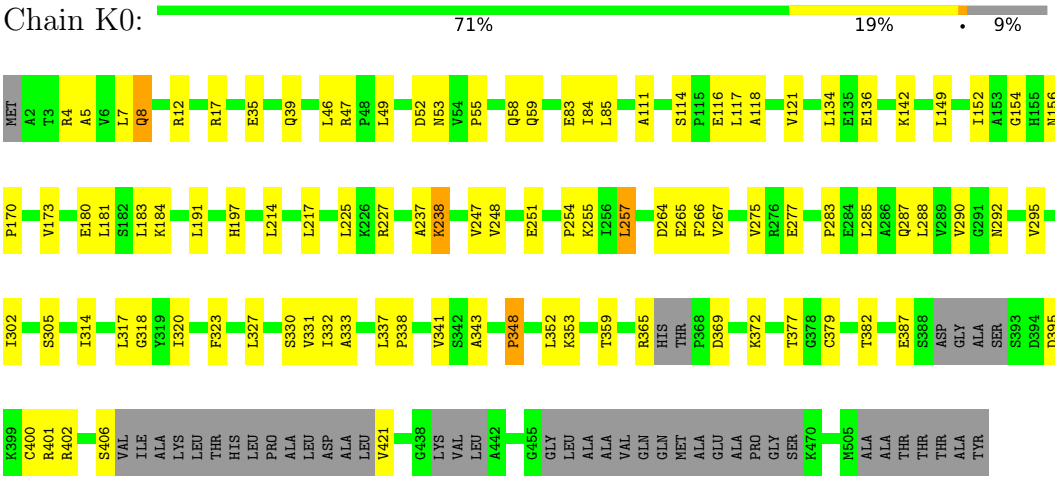
• Molecule 19: PF16

Chain J3:



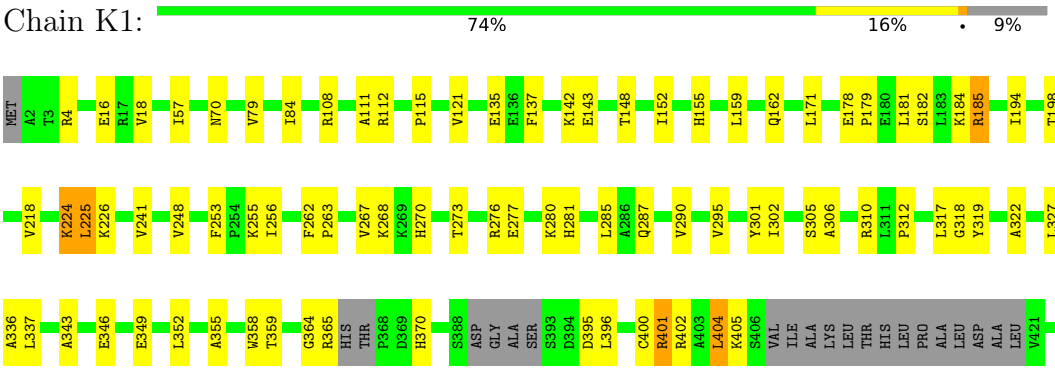
• Molecule 19: PF16

Chain K0:



• Molecule 19: PF16

Chain K1:



• Molecule 19: PF16

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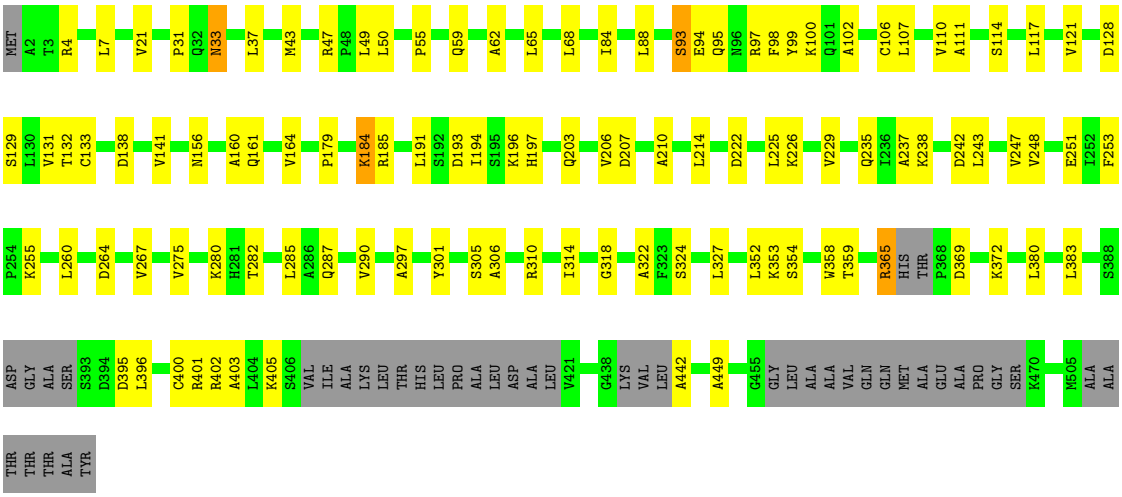

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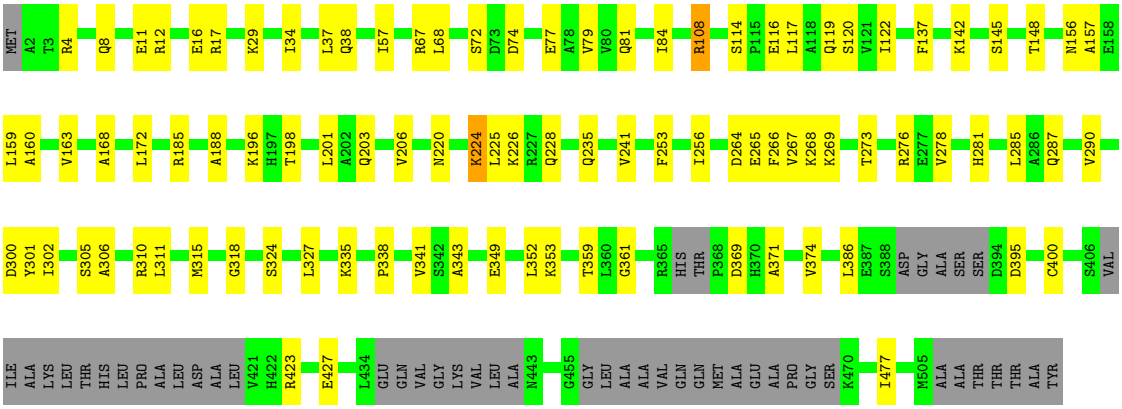

• Molecule 19: PF16

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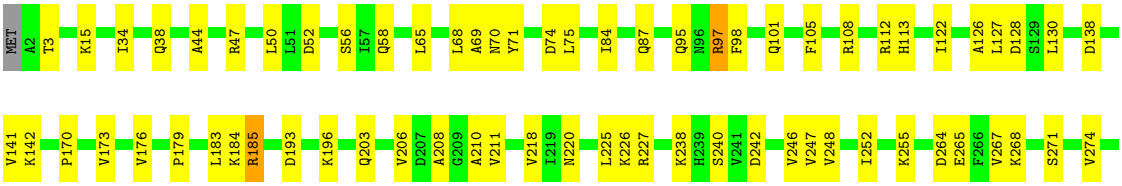
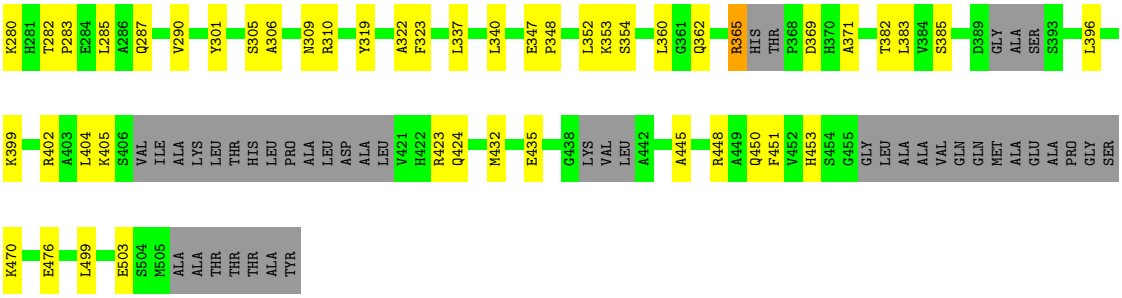
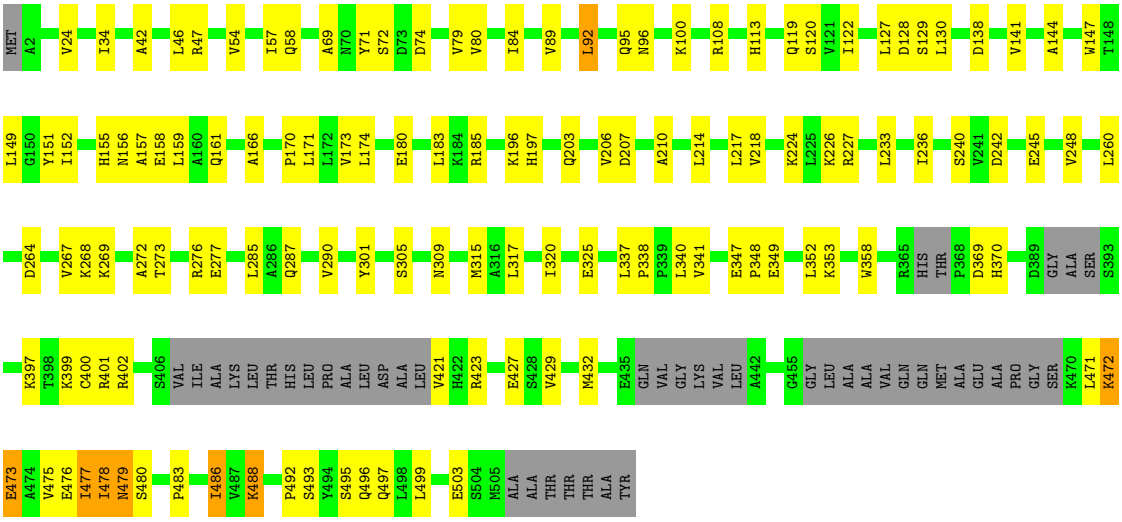




• Molecule 19: PF16

Chain L1:



• Molecule 19: PF16

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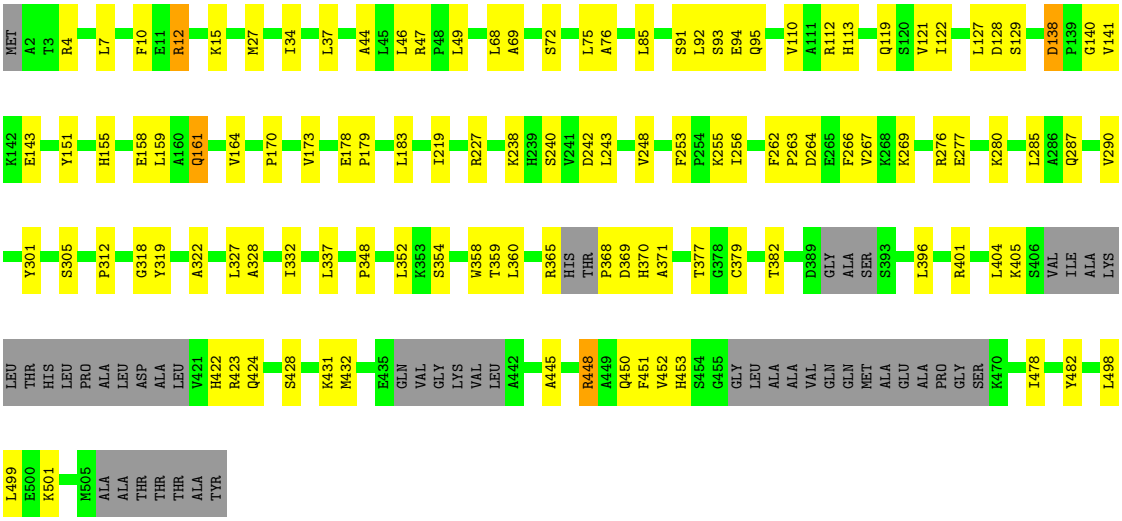
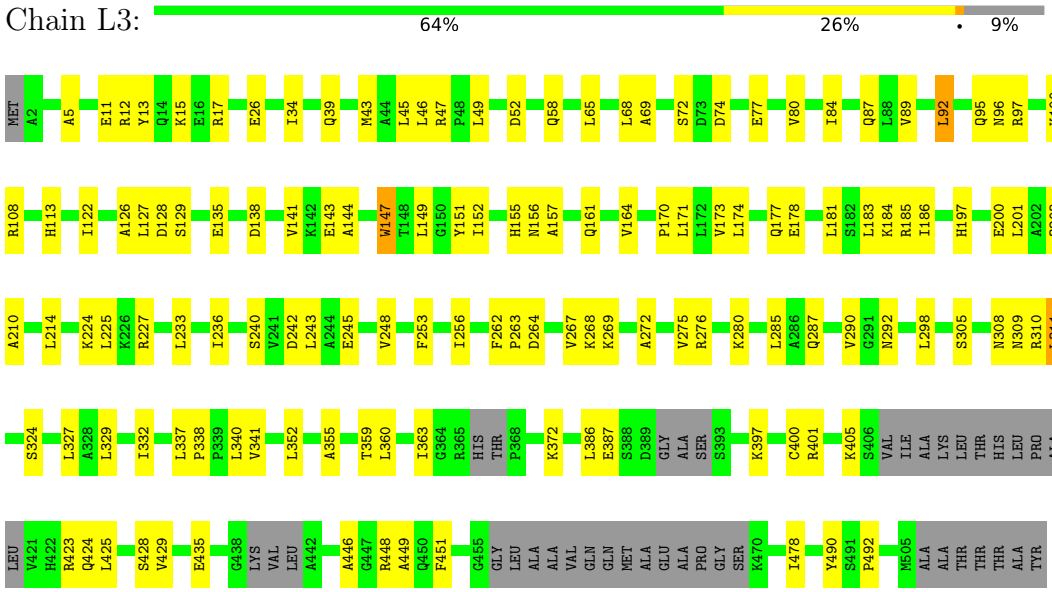


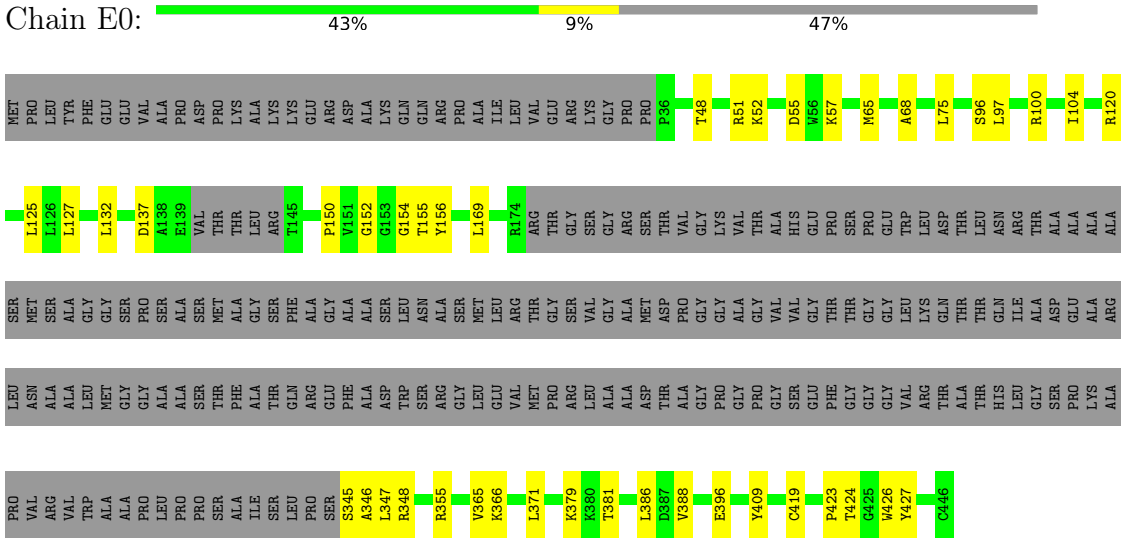
• Molecule 19: PF16

Chain L3:



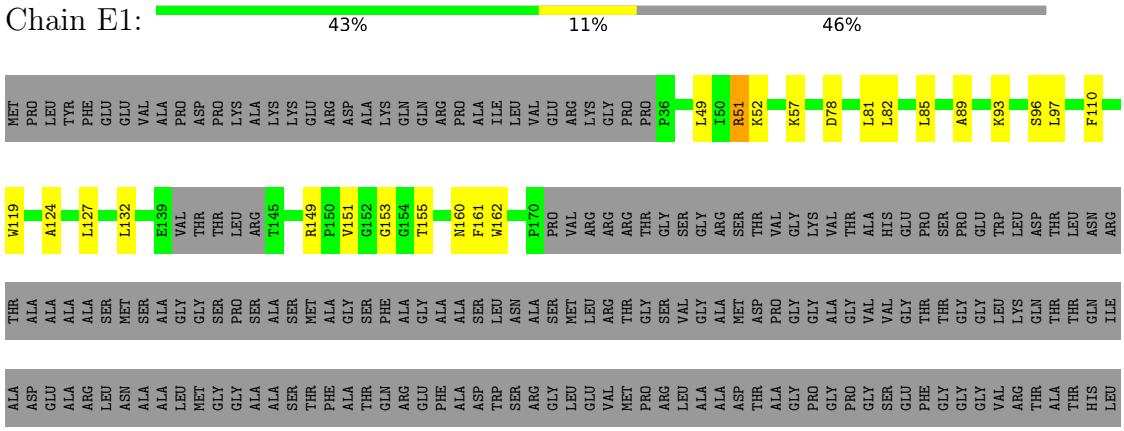
• Molecule 20: FAP108

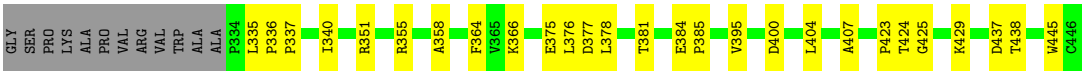
Chain E0:



• Molecule 20: FAP108

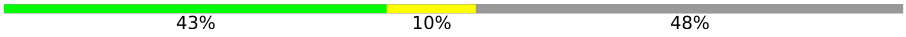
Chain E1:

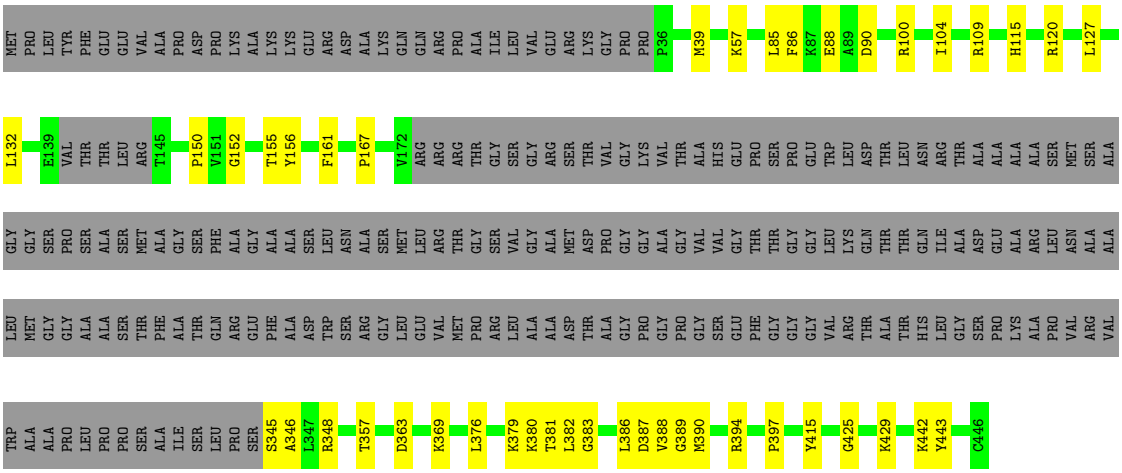




• Molecule 20: FAP108

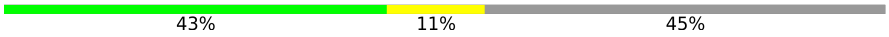
Chain E2:

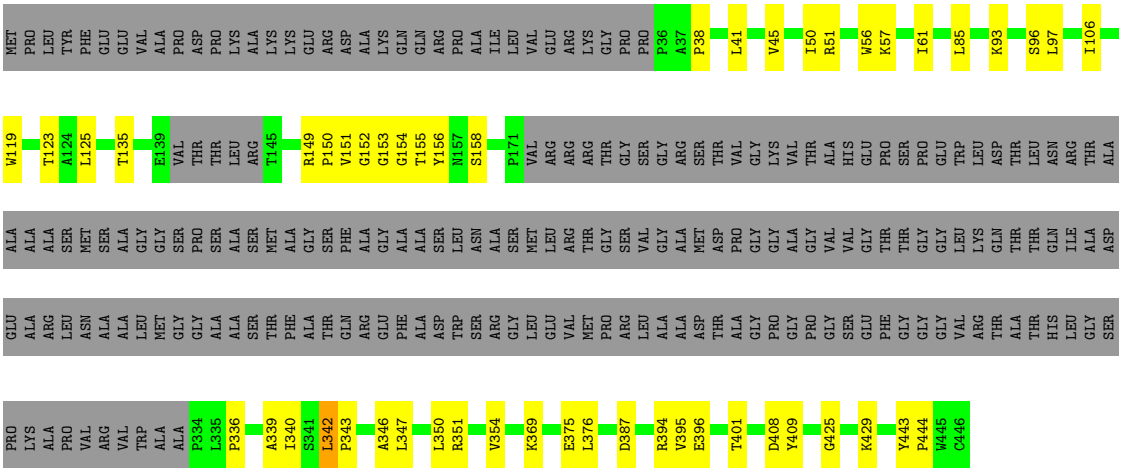




• Molecule 20: FAP108

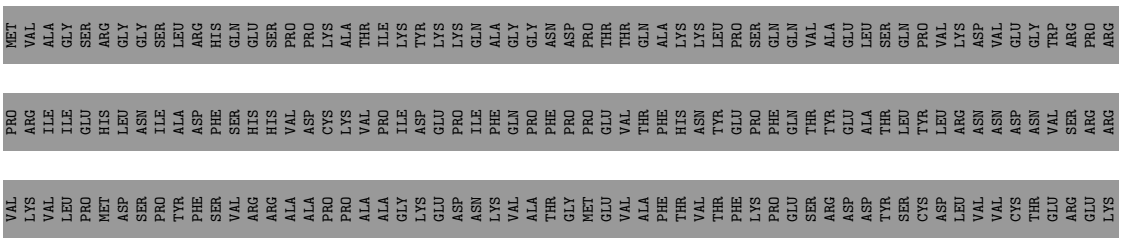
Chain E3:

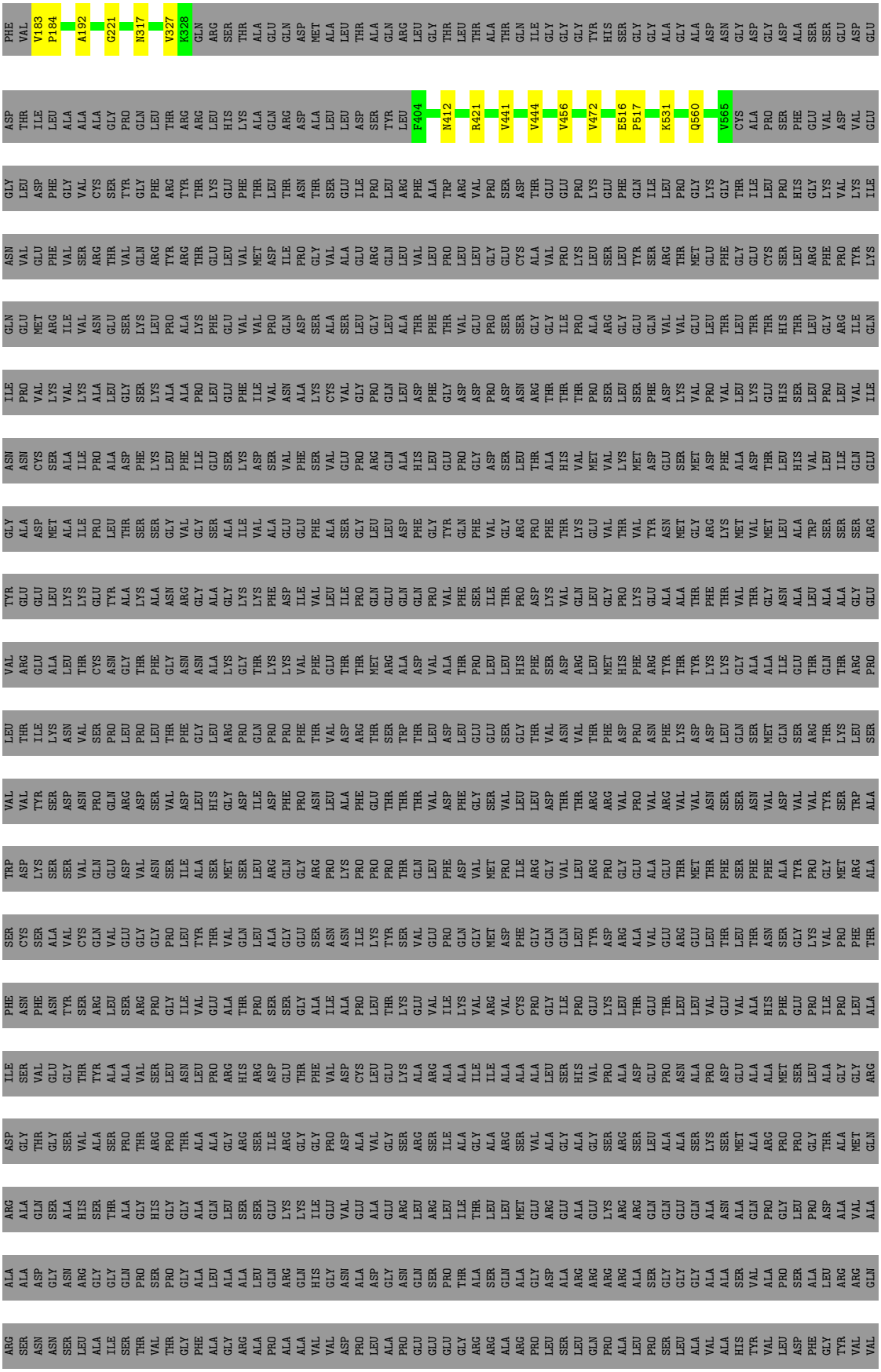




• Molecule 21: Hydin

Chain F0:




PHE VAL V183 P184 A192 G221 N317 V327 K328 GLN ARG SER THR ALA GLU GLN ASP MET ALA LEU THR ALA GLN ARG LEU GLY THR LEU THR ALA THR GLN ILE GLY GLY GLY TYR HIS SER GLY GLY ALA GLY ALA ASP ASN GLY ASP GLY ASP ALA SER SER GLU ASP
ASP THR ILE LEU ALA ALA ALA GLY PRO GLN LEU THR ARG ARG LEU HIS LYS ALA GLN ARG ASP ALA LEU LEU ASP SER TYR LEU F404 N412 R421 V441 V444 V456 V472 E516 P517 K531 Q560 V565 CYS ALA PRO SER PHE GLU VAL ASP VAL GLU
GLY LEU ASP PHE GLY VAL CYS SER TYR GLY PHE ARG TYR THR LYS GLU PHE THR LEU THR ASN THR SER GLU ILE PRO LEU ARG PHE ALA TRP ARG VAL PRO SER ASP THR GLU GLU PRO LYS GLU PHE GLN ILE LEU PRO GLY THR ILE LEU PRO HIS GLY LYS VAL LYS ILE
ASN VAL GLU PHE VAL SER ARG THR VAL GLN ARG TYR ARG THR GLU LEU VAL MET ASP ILE PRO GLY VAL ALA GLU ARG GLN LEU VAL LEU PRO LEU LEU GLY GLU GLU CYS ALA VAL PRO LYS LEU SER LEU TYR SER ARG THR MET GLU PHE GLY GLU CYS SER LEU ARG PHE PRO TYR LYS
GLN GLU MET ARG ILE VAL ASN GLU SER LYS LEU PRO ALA LYS PHE GLU VAL VAL PRO GLN ASP SER ALA SER LEU GLY LEU ALA THR PHE THR VAL GLU PRO ASP SER SER GLY GLY ILE PRO ALA ARG GLY GLU GLN VAL VAL GLU LEU THR LEU THR THR HIS SER LEU PRO ILE GLN
ILE PRO VAL LYS VAL LYS ALA LEU GLY SER LYS ALA ALA PRO LEU GLU PHE ILE VAL ASN ALA LYS CYS VAL GLY PRO GLN LEU ASP PHE GLY ASP ASP PRO ASP SER LEU SER PHE ASP LYS VAL PRO VAL LEU LYS GLU HIS SER LEU PRO VAL ILE
ASN ASN CYS SER ALA ILE PRO ALA ASP PHE LYS LEU PHE ILE GLU SER LYS ASP SER VAL PHE SER VAL GLU PRO ARG GLN ALA HIS LEU GLU PRO GLY ASP PRO SER MET VAL LYS MET ASP GLU SER MET ASP PHE ALA ASP THR LEU HIS LEU VAL LEU ILE GLN GLU
GLY ALA ASP MET ALA ILE PRO LEU THR SER SER GLY VAL GLY SER ALA ALA SER GLY LEU LEU ASP PHE GLY TYR GLN PHE VAL GLY ARG PRO PHE THR LYS GLU VAL THR VAL TYR ASN MET GLY ARG LYS MET VAL MET LEU ALA TRP SER SER SER ARG
TYR GLU GLU LEU LYS LYS GLU TYR ALA LYS ALA ASN ARG GLY ALA GLY GLN GLN PRO VAL PHE SER ILE THR PRO ASP LYS VAL GLN LEU GLY PRO LYS GLU ALA ALA THR PHE THR VAL THR GLY ASN ALA LEU ALA ALA GLY GLY GLU
VAL ARG GLU ALA LEU THR CYS ASN GLY THR PHE GLY ASN ASN ALA LYS GLY THR LYS LYS VAL PHE GLU THR THR MET ARG ALA ASP VAL ALA THR THR ARG ALA LEU MET HIS PHE ARG TYR THR TYR LYS LYS GLY ALA ALA ILE GLU THR GLN THR ARG PRO
LEU THR ILE LYS ASN VAL PRO LEU PRO LEU THR PHE GLY LEU ARG PRO GLN PRO PRO PHE THR VAL ASP ARG THR SER TRP THR THR LEU ASP LEU GLU GLU SER GLY THR VAL ASN VAL THR PHE ASP PRO ASN PHE LYS ASP ASP LEU GLN SER MET GLN SER ARG THR LYS LEU SER
VAL VAL TYR SER ASP ASN PRO GLN ARG ASP SER VAL ASP PHE GLU ILE ASP PHE PRO ASN LEU ALA PHE GLU THR THR THR VAL ASP PHE ALA ARG ARG VAL PRO VAL ARG VAL VAL ASN SER SER ASN VAL VAL ASP VAL VAL TYR SER TRP ALA
TRP ASP LYS SER SER VAL ASP VAL ASN GLU ASP GLN LEU PHE ASP PRO PRO PRO THR GLN LEU PHE ASP VAL ILE ALA SER MET PRO ILE ARG GLY VAL LEU ARG PRO ARG GLN GLU ALA GLU THR MET THR PHE SER PHE PHE ALA TYR PRO GLY MET ARG ALA
SER CYS SER ALA VAL CYS GLN GLN VAL GLU GLY GLY PRO LEU TYR THR VAL GLN LEU ALA GLY GLU SER ASN ASN ILE ILE LYS TYR SER VAL GLU PRO GLN LYS GLY MET ASP PHE GLY GLN GLN LEU TYR ASP ARG ALA VAL GLU ARG GLU LEU THR LEU THR ASN ASN SER GLY LYS VAL PHE THR
PHE ASN PHE ASN TYR SER ARG PRO GLY ILE VAL GLU ALA THR PRO SER SER GLY ALA ILE PRO LEU THR LYS GLU VAL PRO ILE LYS VAL ARG VAL CYS PRO GLY ILE PRO GLU LYS LEU THR GLU THR LEU VAL GLU VAL PRO GLY ILE PRO LEU ALA
ILE SER VAL GLU GLY THR TYR ALA ALA VAL ASP CYS LEU GLU LYS ALA ARG ALA ILE ILE ALA LEU SER HIS VAL PRO ALA ASP GLU PRO ASN ALA PRO ASP GLU ARG LEU ALA LEU GLY ARG
ASP GLY THR GLY SER VAL ALA PRO THR ARG PRO THR ARG SER ILE ALA GLY ALA ARG SER VAL ALA ALA GLY SER ARG SER LEU ALA ASN SER LYS SER MET ALA ARG PRO PRO GLY GLY THR ALA MET GLN
ARG ALA GLN SER ALA HIS SER THR ALA GLY HIS GLY GLY ALA GLN LEU SER SER GLU LYS ILE GLU VAL GLU ALA ARG LEU ILE THR LEU ARG LEU MET GLU ARG GLU ALA LYS ARG ARG GLN GLN GLN GLU GLN ALA ASN ARG GLN PRO GLY LEU PRO ASP ALA VAL GLN
ALA ALA ASP GLY ASP ASN ARG GLN LEU ALA GLN ALA ASP GLY ASP ALA ARG ARG ALA ALA SER GLY GLY GLY GLY ALA ALA ASN SER ALA PRO SER ALA LEU ARG ARG PRO ALA
ARG SER ASN ASN SER LEU ALA ILE SER THR VAL THR GLY PHE ALA GLY ARG ALA PRO ALA ALA VAL VAL ASP PRO LEU ARG GLU GLU GLY ARG ARG ALA ARG PRO LEU SER LEU GLN PRO ALA LEU PRO SER LEU ALA VAL ALA HIS TYR VAL LEU ASP PHE GLY TYR VAL VAL

GLU ALA LYS LEU ALA LEU GLU VAL LEU ASP VAL GLN GLU LEU GLN GLY VAL ALA HIS SER ILE PRO LEU PRO ILE LYS GLY GLU ALA TYR LYS ILE GLU ILE ASP ILE ASN PHE PRO GLN ALA ASN PHE PRO GLY VAL ASP TYR GLY THR LEU ARG VAL VAL ASP ASP VAL ALA LYS PRO

ILE VAL ILE LYS ASN THR GLY LYS TYR ALA ILE SER TYR ASN PHE SER MET LYS PRO LEU SER VAL LEU THR GLY LEU LEU THR ILE THR PRO ALA SER GLY ASN ILE ASP PRO GLY LYS ASP ALA ARG ILE GLU MET ALA TRP ASN LYS ASP LYS SER LEU ARG ASN GLU VAL MET LEU

MET GLY ASN SER ASP VAL THR LEU SER ILE ILE GLU PRO LEU THR THR ASN ARG GLU ASP THR ILE PRO ILE GLN ILE SER GLY HIS ALA VAL PHE SER LYS TYR ALA VAL THR PRO ALA ARG GLY ILE HIS PHE GLY PRO VAL THR TYR ASN THR ALA SER LYS PRO LYS VAL VAL GLU

ILE THR ASN LEU GLY GLN PHE GLU PHE LYS PHE ARG LEU PHE ASN HIS ALA ASN GLY PRO PRO PRO ILE PRO VAL GLU ALA PRO ALA ALA GLY LYS GLY LYS GLY GLY ALA ALA ALA ALA ALA PRO PRO PRO ALA ALA LYS GLY LYS GLY ALA PRO VAL THR ALA MET THR ILE GLY

GLN PHE THR PHE ASP PRO PRO GLU GLY SER ILE PRO PRO GLY GLY ARG ARG GLU VAL ALA VAL VAL PHE ASN ALA VAL ASN ALA SER VAL TYR SER GLU VAL LEU GLY ILE ASP ILE SER GLU ARG ASP PHE GLY ASP GLN PRO ALA GLY ILE PRO ILE GLU VAL ALA GLY GLU SER CYS

ILE PRO GLY ILE ASP ALA GLU ASN THR VAL ALA ILE PHE GLU GLU HIS THR ILE SER ALA SER LEU ASP PRO PHE ASN PRO ILE ASN ASN GLU PHE SER THR ARG GLU ARG VAL PHE ASN PHE GLY ALA VAL LEU ALA LYS LEU GLY ALA PRO GLU GLY SER ASP GLY SER ALA THR PRO

PRO ARG ALA SER THR PRO PRO LYS GLY ALA ALA LYS GLY LYS GLY LYS ASP GLU VAL GLU ALA SER PRO GLY VAL ALA ALA ALA PRO HIS ALA VAL ARG ALA ASN LEU LYS PHE ILE ASN PRO VAL LYS VAL PRO CYS VAL VAL ASN PHE SER ILE LYS PRO ARG GLY ASN LEU PRO PRO

GLY GLN ALA LEU PRO MET GLU ILE SER PRO SER GLN LEU VAL ILE PRO PRO LEU GLU TYR ARG TYR THR ALA LEU TYR PHE ALA PRO ARG ALA ILE GLN SER TYR LEU ALA THR PHE GLU ALA THR VAL GLU ASN GLY GLY ASP PRO LYS THR LYS SER PHE THR CYS GLU VAL ARG GLY

GLU GLY THR LEU PRO THR LEU THR ILE ALA GLU PRO THR VAL VAL ASP PRO GLN GLY ARG PRO LEU VAL LYS PHE ALA ARG LEU LEU ARG GLY ARG THR ALA THR ALA ARG ILE THR LEU LYS ASN ASN GLY ILE LEU PRO ALA LYS ALA ARG ILE GLU MET ALA PRO HIS GLY SER PHE

ARG LEU GLU GLY GLY GLY ALA THR GLY SER MET GLY PRO GLN GLY GLU ALA PHE THR VAL GLU SER LYS ARG SER VAL THR TYR THR VAL ALA PHE THR PRO GLU ALA VAL GLY PRO ALA ALA HIS GLU LEU LYS LEU ARG VAL ALA ASN ASN PRO PHE GLU ASP TYR ARG PHE LEU LEU

THR GLY GLU GLY TYR GLN GLU ASP VAL THR PHE ASP HIS LEU PRO ASN ASP ALA LEU ASP GLU LEU ARG LEU GLN ASP GLY PRO VAL GLY ARG PRO VAL GLN ALA VAL PHE THR LEU ARG ASN HIS SER ALA SER LYS HIS PHE ARG PHE ARG TRP PRO ALA ALA GLY ALA ALA GLY SER

ASN PRO CYS LEU ALA PHE SER PRO ALA VAL GLY HIS LEU MET ALA GLY SER SER LYS ASP VAL THR LEU THR PHE SER ALA GLU ALA PRO VAL LYS LEU SER PRO HIS ASP VAL LYS LEU THR ILE ALA GLN ILE THR HIS ALA ALA GLU ALA HIS ALA VAL ASP TRP ASP ASP ARG SER

VAL VAL VAL ASP TYR GLY LEU GLY VAL GLY PRO ASP GLY LEU PRO VAL ALA LYS PRO GLU PRO GLU PRO GLN VAL THR GLU VAL ALA GLY SER GLY ARG GLU LEU LEU LEU HIS VAL PHE ALA THR THR ALA ASP ASN ALA ARG TYR THR SER GLU ALA GLY PRO ILE MET PHE LYS PRO THR

MET MET PHE GLN THR ARG THR TYR THR PHE PRO LEU THR ASN THR SER THR ALA ARG MET ASP TYR LYS PHE THR VAL THR GLN PRO ASP GLY ASN THR ALA ASP ALA SER GLY LEU TYR THR VAL SER PRO ALA GLY GLY VAL GLU ALA GLY ALA THR ALA THR ILE THR VAL LYS

PHE SER PRO THR GLU VAL ASP ASP CYS ALA ARG VAL LEU THR CYS HIS ILE PRO HIS LEU ASP ALA SER CYS GLU PRO PHE ALA ARG PRO LEU GLY GLY ARG VAL LEU ARG PRO TRP ALA HIS PHE GLU LEU PRO ASP SER ASP TYR LEU SER GLY GLY ARG ARG SER PRO ASP MET PRO

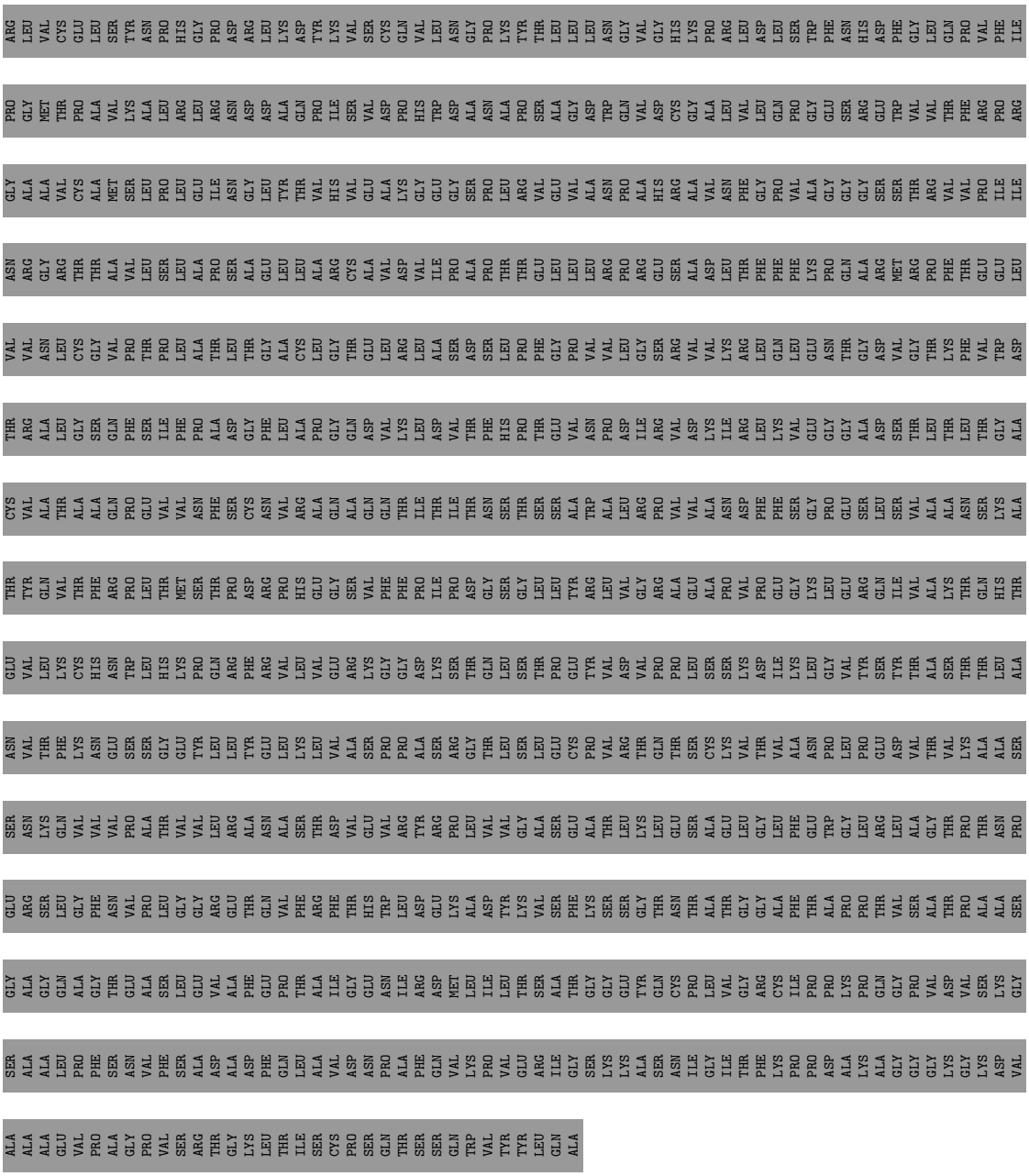
GLY PRO SER GLY ALA ILE GLU PRO LEU ASP PRO GLY THR ARG VAL LEU GLU THR ALA GLU SER LEU GLY VAL ARG VAL ARG ASN THR LYS ARG PHE PHE VAL LEU ASN PRO THR GLY ILE SER TYR GLU PHE PHE TRP THR PRO VAL ASN LYS ALA GLN GLU ALA GLY PRO PHE THR CYS THR

THR LEU ARG GLY VAL ILE GLY GLY GLY ARG ARG PHE GLU MET VAL PHE GLU TYR THR PRO ALA THR ASP ALA ALA VAL VAL GLU SER PHE TRP THR PHE ARG ILE PRO GLU GLN ASN ILE GLU VAL PRO PHE LEU LEU VAL GLY LEU VAL SER GLU PRO ARG VAL MET LEU ASP ARG PRO SER

VAL ASN PHE GLY GLN ILE LEU ILE GLY CYS LYS GLY HIS ALA THR LEU THR LEU VAL ASN ASN GLU HIS LEU PRO PHE GLN PHE ALA PHE ASP LYS ASN SER TYR ASP ALA THR GLU GLU LEU ILE LYS ALA THR GLY LEU ARG PRO VAL VAL GLU LEU GLU PRO SER SER GLY VAL VAL

PRO ALA GLN GLY SER VAL SER ILE ALA ALA THR PHE THR PRO ARG LEU GLU ARG ASP ILE ASN TYR ASN LEU LEU CYS THR VAL LYS ASN LYS PRO THR ARG LEU THR LEU ASN VAL LYS GLY GLU GLY THR ALA ILE HIS GLU ALA LEU GLN LEU GLU ASN ALA ASP GLY THR THR VAL

THR MET ALA PRO ARG GLN SER ASN THR VAL ASP PHE GLY GLN VAL LEU VAL ASN GLU ARG CYS VAL ARG ALA LEU ALA LEU VAL ASN SER GLY GLN VAL ASN PHE ASN PHE ILE TRP ASP VAL GLY THR ASN PRO ARG VAL ASN ILE SER PRO GLU GLY GLY THR VAL PRO ARG GLY GLU



• Molecule 21: Hydin

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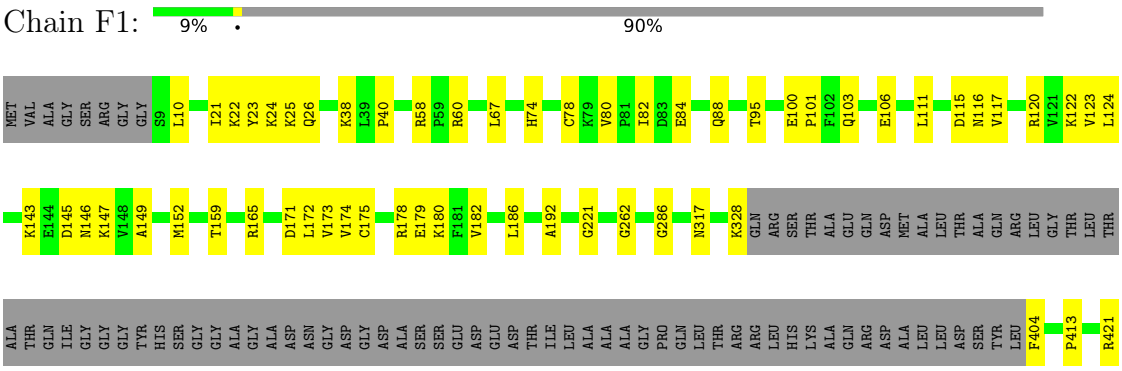
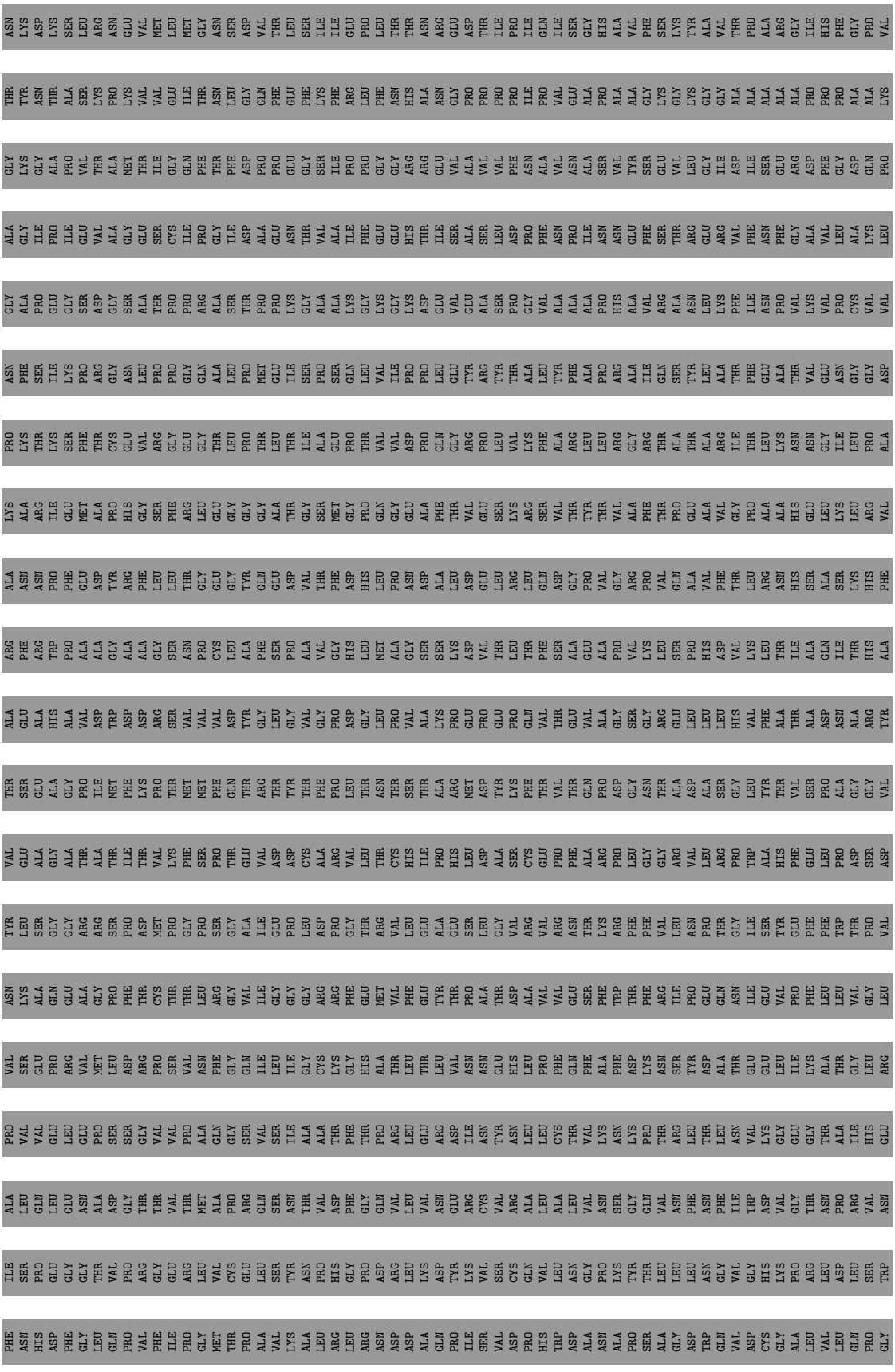
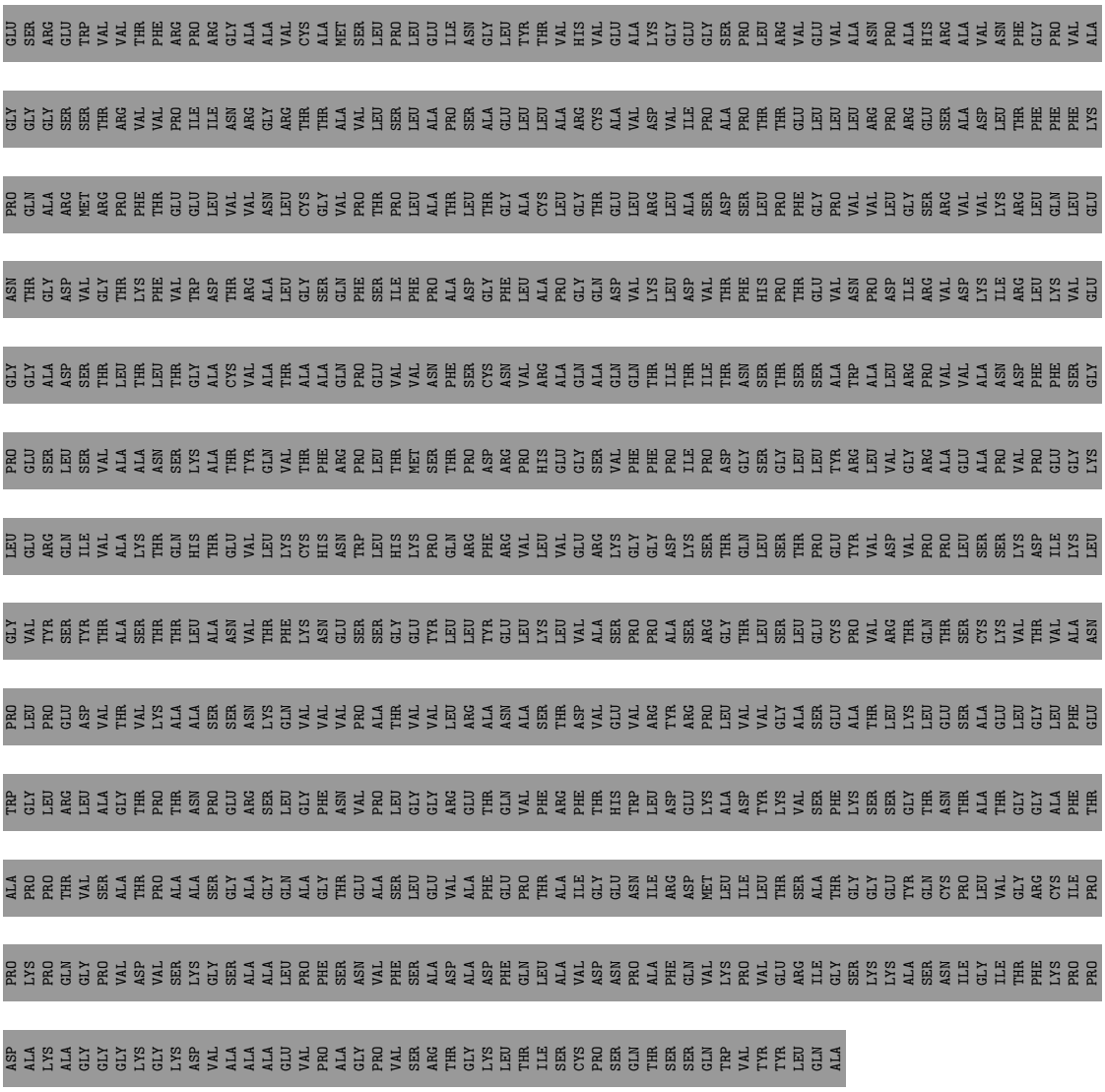


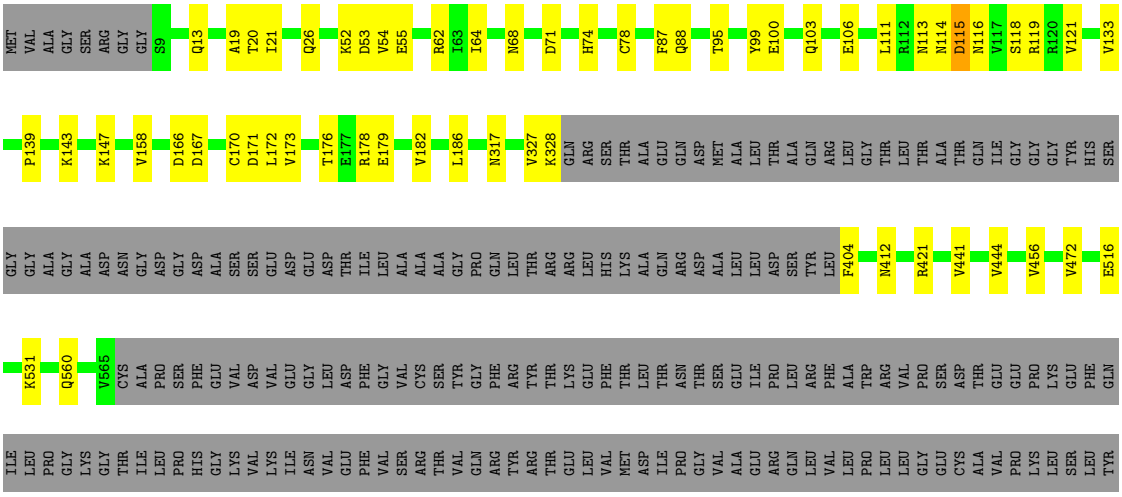
V565
CYS ALA PRO SER PHE GLU VAL ASP VAL GLU GLY LEU ASP PHE GLY VAL CYS SER TYR GLY PHE ARG TYR THR LYS GLU PHE THR LEU THR ASN THR SER GLU ILE PRO LEU ARG PHE ALA TRP ARG VAL PRO SER ASP THR GLU GLU PRO LYS GLU PHE GLN ILE LEU PRO GLY
LYS GLY THR ILE LEU PRO HIS GLY LYS VAL LYS ILE ASN VAL GLU PHE VAL SER ARG THR VAL GLN ARG TYR ARG THR GLU LEU VAL MET ASP ILE PRO GLY VAL LYS LEU SER LEU TYR SER ARG THR MET
GLU PHE GLY GLU CYS SER LEU ARG PHE PRO TYR LYS GLN GLU MET ARG ILE VAL ASN GLU SER LYS LEU PRO ALA LYS PHE GLU VAL VAL PRO GLN ILE VAL ALA SER LEU GLY LEU ALA THR PHE THR VAL GLU PRO GLY SER GLU CYS ALA VAL PRO LEU LEU LEU GLY GLU SER LEU GLN GLU VAL GLU
LEU THR LEU THR THR HIS THR LEU GLY ARG ILE GLN ILE PRO VAL LYS VAL LYS ALA ALA PRO LEU GLU PHE ILE VAL ASN ALA LYS CYS VAL GLY PRO GLN LEU ASP PHE GLY ASP ASP PRO ASP ASN ARG THR THR HIS THR PRO MET VAL LYS MET ASP GLU SER PHE ASP LYS VAL
PRO VAL LEU LYS GLU HIS SER LEU PRO LEU VAL ILE ASN ASN CYS SER ALA ILE PRO ALA ASP PHE LYS LEU PHE ILE GLU SER LYS ASP SER ASP PHE ALA HIS LEU GLU PRO GLY ASP SER LEU THR ALA HIS VAL MET VAL LYS MET ASP GLU SER MET
ASP PHE ALA ASP THR LEU HIS VAL LEU LEU ILE GLN GLU GLY ALA ASP MET ALA ILE PRO LEU THR SER SER GLY VAL GLY SER ALA ILE VAL ALA GLU GLU PHE ALA SER GLY LEU LEU ASP PHE GLY TYR GLN PHE VAL GLY ARG PRO PHE THR LYS GLU VAL GLY LEU ASP PRO SER LEU THR PRO ASP LYS VAL LYS ALA GLY VAL THR PHE GLY GLY
ARG LYS MET VAL MET LEU ALA ALA TRP SER SER SER ARG TYR GLU LEU LYS LYS GLU TYR ALA LYS ALA ASN ARG GLY ALA GLY LYS LYS PHE ASP ILE VAL LEU ILE PRO GLN GLU GLN GLN PRO VAL PHE SER ILE THR PRO THR LEU GLY LYS ALA ASP ARG THR MET ARG ALA ASP VAL ASP PHE GLU THR THR MET THR PRO LEU LEU HIS PHE SER ASP ARG LEU LEU GLY PRO LYS VAL GLU LYS ASP
PHE THR VAL THR GLY ALA ALA LEU ALA ALA GLY GLU VAL ARG GLU ALA LEU THR CYS ASN GLY THR PHE GLY ASN ASN ALA LYS GLY THR LYS LYS VAL PHE GLU THR THR MET ARG ALA ASP VAL ALA LEU THR PRO LEU LEU HIS PHE SER ASP ARG LEU LEU MET HIS PHE ARG TYR THR THR TYR
LYS LYS GLY ALA ALA ILE GLU THR ARG PRO LEU THR ILE LYS ASN VAL SER PRO LEU PRO LEU THR GLY GLN PRO PRO PHE THR VAL ASP ARG THR SER TRP THR THR LEU ASP LEU GLU GLU SER GLY THR VAL PHE ASP PRO ASN PHE LYS ASP
ASP LEU GLN SER MET GLN SER ARG THR LYS LEU SER VAL SER ASP ASN PRO GLN ARG ASP SER VAL ASP LEU HIS GLY ASP ILE ASP PHE PRO ASN LEU LEU ALA PHE GLU THR THR THR VAL ASP PHE GLY SER VAL LEU LEU LEU ASP THR ARG ARG VAL PRO VAL ARG VAL VAL
ASN SER SER ASN VAL ASP VAL VAL TYR SER TRP ASP LYS SER SER SER VAL GLN GLU ASP VAL ASN SER ILE ALA SER MET SER LEU ARG GLN GLY GLU LYS PRO PRO PRO THR GLN LEU PHE ASP VAL MET PRO ILE ARG GLY VAL LEU ARG ARG PRO GLY GLU ALA THR MET
THR PHE SER PHE PHE ALA TYR PRO GLY MET ARG ALA SER CYS SER ALA VAL CYS GLN VAL GLU GLY GLY PRO LEU TYR THR VAL GLN LEU ALA GLY GLU SER ASN ASN ILE LYS TYR SER VAL GLU PRO GLN GLY MET ASP PHE GLY GLN GLN LEU TYR ASP ARG ALA VAL GLU ARG GLU
LEU THR LEU THR ASN SER GLY LYS VAL PRO PHE THR PHE ASN PHE ASN TYR SER ARG LEU SER ARG PRO GLY ILE VAL GLU ALA THR PRO SER SER GLY ALA ILE ALA PRO LEU THR LYS GLU VAL LEU PHE ASP ILE LYS VAL ARG VAL CYS PRO GLY ILE PRO GLU LYS LEU THR THR LEU LEU LEU
VAL GLU VAL ALA HIS PHE GLU PRO LEU ILE PRO LEU GLU VAL ALA ILE SER VAL GLU GLY THR TYR ALA ALA VAL SER LEU ASN LEU PRO ARG HIS ARG ASP GLU THR PHE VAL ASP CYS LEU GLU LYS ALA ARG ALA ALA ILE ILE ALA ALA ALA LEU SER HIS VAL PRO ALA ASP GLU PRO ASN ALA
PRO ASP GLU ALA ALA MET SER LEU ALA ALA GLY ARG SER ILE ARG GLY GLY PRO ASP ALA ALA VAL GLY SER ARG SER ILE ALA GLY ALA ALA SER VAL ALA LEU ALA ALA GLY SER ARG ARG SER ALA SER
LYS SER MET ALA ARG PRO MET GLN ARG ALA GLN SER ALA HIS SER THR ALA GLY HIS GLY GLY THR ALA GLN LEU SER SER GLU LYS ARG LYS ILE GLU VAL GLU ALA GLU ARG LEU ARG LEU ILE THR LEU GLU MET GLU ARG ARG GLN GLN GLN
ALA ASN ALA GLN PRO GLY LEU PRO ASN VAL ALA ALA ASP GLY ASN GLN SER PRO THR ALA SER GLN ALA GLY ASP ASP ASP ARG ARG ARG ALA SER GLY GLY GLY
ALA ALA SER VAL ALA PRO SER ALA LEU ARG PHE ALA GLY GLU GLU PRO ALA LEU GLY ARG ARG ARG PRO LEU SER LEU GLN PRO ALA LEU PRO SER LEU ALA
VAL ALA HIS TYR VAL LEU ASP PHE GLY TYR VAL VAL LYS GLY LEU PHE LYS LEU THR GLN GLN VAL SER PHE ARG ASP LYS THR LEU LEU GLU GLU ASN ASN GLY PHE LYS VAL ASP PRO GLU VAL PRO GLU PRO ALA PRO GLU
PHE ALA SER VAL GLU VAL ALA PRO SER ALA LEU GLY PHE ALA GLY ARG ALA PRO ALA ALA VAL THR PRO PRO ILE THR ILE LYS GLY SER PRO PRO VAL LEU LEU THR LEU LYS ALA HIS VAL GLN VAL PRO ASP LEU LYS LEU VAL PRO GLY

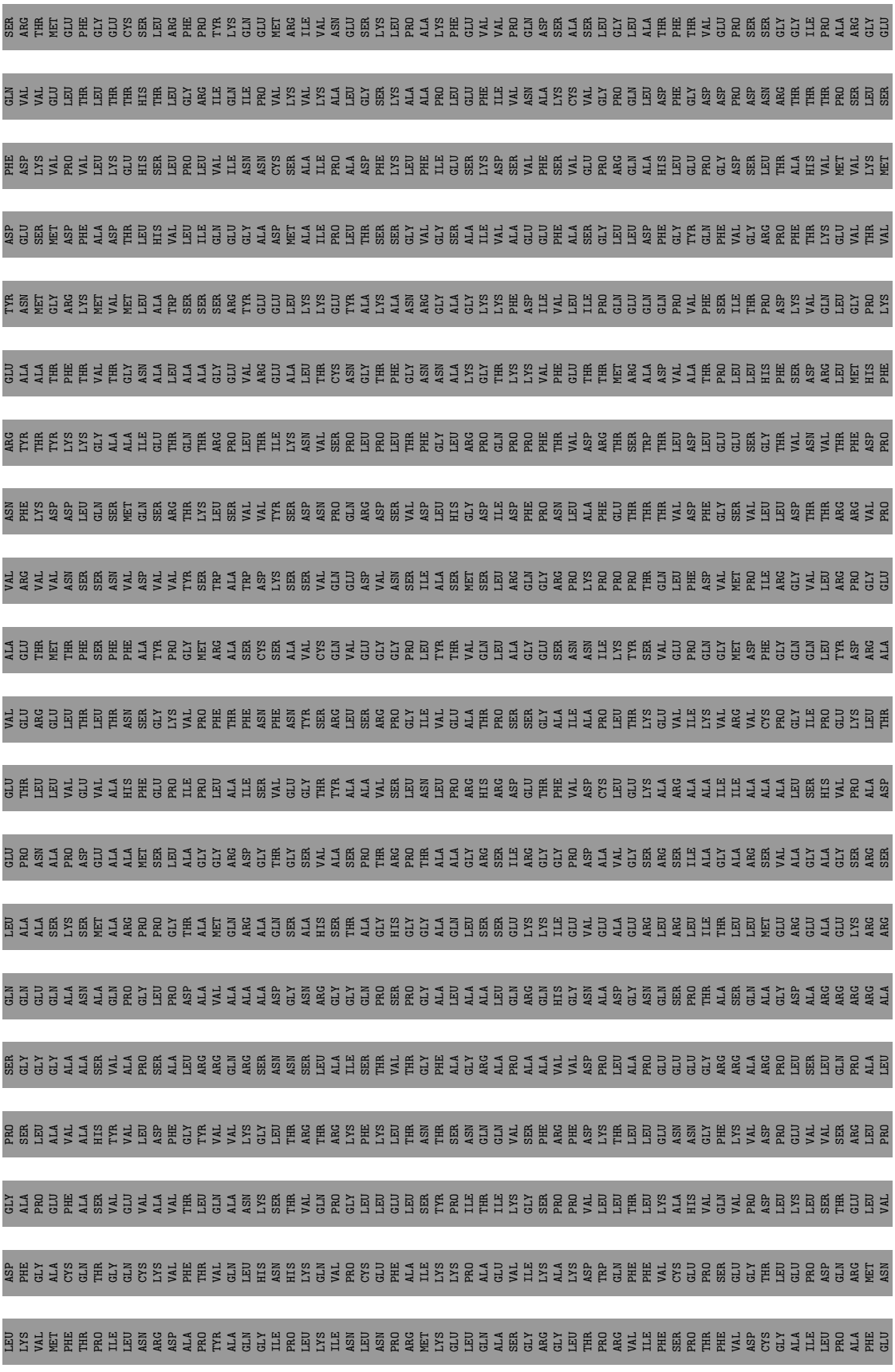

ASN LYS ASP LYS SER LEU ARG ASN GLU VAL MET LEU MET GLY ASN SER ASP VAL THR LEU SER ILE ILE GLU PRO LEU THR THR ASN ARG GLU ASP THR ILE PRO ILE GLN ILE SER GLY HIS ALA VAL PHE SER LYS TYR ALA VAL THR ASN GLY GLY GLY LYS GLY GLY ILE ASP HIS PHE GLY PRO VAL
THR TYR ASN THR ALA SER LYS PRO LYS VAL VAL GLU ILE THR ASN LEU GLY GLN PHE GLU PHE LYS PHE ARG LEU PHE GLY ASN HIS ALA ASN GLY PRO PRO PRO ILE PRO VAL GLU ALA PRO ALA PRO ALA ALA ALA ALA ALA PRO PRO PRO GLU ALA ALA ALA ALA ALA LYS
GLY LYS GLY ALA PRO ILE GLU VAL THR ALA MET THR ILE GLY GLN PHE THR PHE ASP PRO PRO GLU GLY GLY SER ILE PRO PRO GLY GLY ARG GLU VAL ALA VAL VAL PHE ASN ALA VAL ASN ALA SER VAL TYR SER GLU VAL LEU GLY ILE ASP ILE SER GLU ARG ASP PHE GLY ASP GLN PRO
ALA GLY ILE PRO ILE GLU VAL ALA GLY GLU SER CYS ILE PRO GLY ILE ASP ALA GLU ASN THR VAL ALA ALA ILE PHE GLU PRO GLU GLU HIS THR ILE SER ALA SER LEU ASP PRO ASN PHE ASN ASN GLU PHE SER THR ARG GLU ARG VAL PHE ASN PHE GLY ALA VAL LEU LEU ASP LEU
GLY ALA PRO GLU GLY SER ASP GLY SER ALA THR PRO GLY LYS GLY LYS LYS ASP GLU VAL GLU GLU ALA SER PRO GLY VAL ALA ALA PRO HIS ALA VAL ARG ALA ASN LEU LYS PHE ILE ASN PRO VAL LYS VAL VAL
ASN PHE SER ILE LYS PRO ARG GLY ASN LEU PRO PRO MET GLU ILE SER PRO SER GLN LEU VAL ILE PRO PRO LEU GLU TYR ARG THR THR ALA LEU TYR ARG PHE ALA PRO ARG ALA ILE GLN SER TYR LEU GLU ALA THR PHE GLU ALA THR VAL GLU ASP VAL ASP LEU PRO ASN
PRO LYS THR LYS SER PHE THR CYS GLU VAL ARG GLY GLU GLY THR LEU PRO THR LEU THR ILE ALA GLU PRO THR VAL VAL ASP PRO GLN GLY ARG PRO LEU VAL LYS PHE ALA ARG LEU LEU ARG GLY ALA THR ALA ALA ARG ILE THR LEU LYS ASN ASN GLY ILE LEU PRO ALA
LYS ALA ARG ILE GLU MET ALA PRO HIS GLY SER PHE ARG LEU GLU GLY GLY GLY ALA THR GLY SER MET GLY PRO GLN GLY GLU ALA PHE THR VAL GLU SER LYS ARG SER VAL THR TYR THR VAL ALA PHE THR PRO GLU ALA VAL GLY PRO LEU ALA ALA HIS GLU LEU LYS LEU ARG VAL
ALA ASN ASN PRO PHE GLU ASP TYR ARG PHE LEU LEU THR GLY GLU GLY ASP VAL THR PHE ASP HIS LEU PRO ASN ASP ALA LEU ASP GLY PRO VAL GLY ARG PRO VAL GLN ALA VAL PHE THR LEU ARG ASN HIS SER ALA SER LYS HIS PHE
ARG PHE ARG TRP PRO ALA ALA GLY GLY SER ASN PRO CYS LEU ALA PHE SER PRO ALA VAL GLY HIS LEU MET ALA GLY SER SER LYS ASP VAL THR LEU ARG PHE SER ALA GLU ALA PRO VAL LYS LEU SER PRO HIS ASP VAL LYS LEU THR ILE ALA GLN ILE THR HIS ALA
ALA GLU ALA HIS ALA VAL ASP ASP ARG SER VAL VAL VAL ASP TYR GLY LEU GLY VAL GLY PRO ASP GLY LEU PRO VAL ALA LYS PRO GLU PRO GLN VAL THR GLU VAL ALA GLY SER GLY ARG GLU LEU LEU LEU HIS VAL PHE ALA THR ILE ALA ASP ASN ALA ARG TYR
THR SER GLU ALA GLY PRO ILE MET MET PHE LYS PRO THR MET MET PHE GLN THR THR ARG THR TYR THR PHE PRO LEU THR ASN THR SER THR ALA ARG MET ASP TYR LYS PHE THR VAL THR GLN PRO ASP GLY ASN THR ALA ASP ALA SER GLY LEU TYR THR VAL SER PRO ALA GLY GLY VAL
VAL GLU ALA GLY ALA THR ALA ALA ASP PHE SER PRO THR GLU VAL ASP ALA CYS ALA ARG VAL LEU THR ASN CYS HIS ILE PRO HIS LEU ASP ALA SER CYS GLU PRO PHE ALA ARG PRO LEU GLY GLY ARG GLU LEU LEU ARG PRO TRP PHE ALA HIS PHE GLU LEU PRO ASP GLY VAL
TYR LEU SER GLY GLY ARG SER PRO ASP MET PRO GLY PRO SER GLY ALA ILE GLU PRO LEU ASP ASP PRO GLY THR ARG VAL LEU GLU ALA GLU SER LEU GLY VAL ARG VAL ARG ASN THR LYS ARG PHE PHE VAL LEU ASN PRO THR GLY ILE SER TYR GLU PHE PHE PRO LEU TRP THR PRO VAL
ASN LYS ALA GLN GLU GLY THR CYS THR THR LEU PRO PHE THR GLU ALA ARG GLY VAL ILE GLY GLY GLY PHE GLU MET VAL PHE GLU GLU TYR THR PRO ALA THR ASP ALA GLU SER PHE TRP THR PHE ARG ILE PRO GLU GLN ASN ILE GLU VAL PRO PHE LEU LEU VAL GLY LEU
VAL SER GLU PRO ARG VAL MET LEU ASP ARG PRO SER VAL ASN PHE GLY GLN ILE LEU ILE GLY CYS LYS GLY HIS ALA THR LEU THR LEU VAL ASN GLU HIS LEU PRO PHE GLN PHE ALA PHE ASP TYR ASN SER ARG LEU GLU LEU LYS ALA THR GLY LEU ARG
PRO VAL VAL GLU LEU GLU PRO SER GLY VAL VAL PRO ALA GLN GLY SER VAL SER ILE ALA ALA THR PHE THR PRO ARG LEU GLU ARG ASP ILE ASN TYR ASN LEU LEU CYS THR VAL LYS ASN LYS PRO THR ARG LEU THR LEU ASN VAL LYS GLY GLU GLY THR ILE HIS GLU
ALA LEU GLN LEU GLU THR THR VAL THR MET ALA PRO ARG GLN SER ASN THR VAL ASP PHE GLY GLN VAL THR LEU VAL ASN GLU ARG CYS VAL ARG ALA LEU ALA LEU VAL ASN SER GLY GLN VAL ASN PHE ASN PHE ILE TRP ASP VAL GLY THR ASN PRO ARG VAL ASN
ILE SER PRO GLU GLY ARG GLY LYS ASP TYR LYS VAL SER CYS GLN VAL LEU ASN LEU LEU LEU ASN GLY VAL HIS LYS PRO GLY ARG LEU
PHE ASN HIS ASP PHE GLY LEU GLN PRO VAL PHE ILE PRO GLY MET THR PRO ALA VAL LYS ALA LEU ARG LEU ARG ASN ASP ASP ALA GLN PRO ILE SER VAL ASP PRO HIS TRP ASP ALA ASN ALA PRO SER ALA GLY ASP TRP GLN VAL ASP CYS GLY ALA LEU VAL LEU GLN PRO GLY

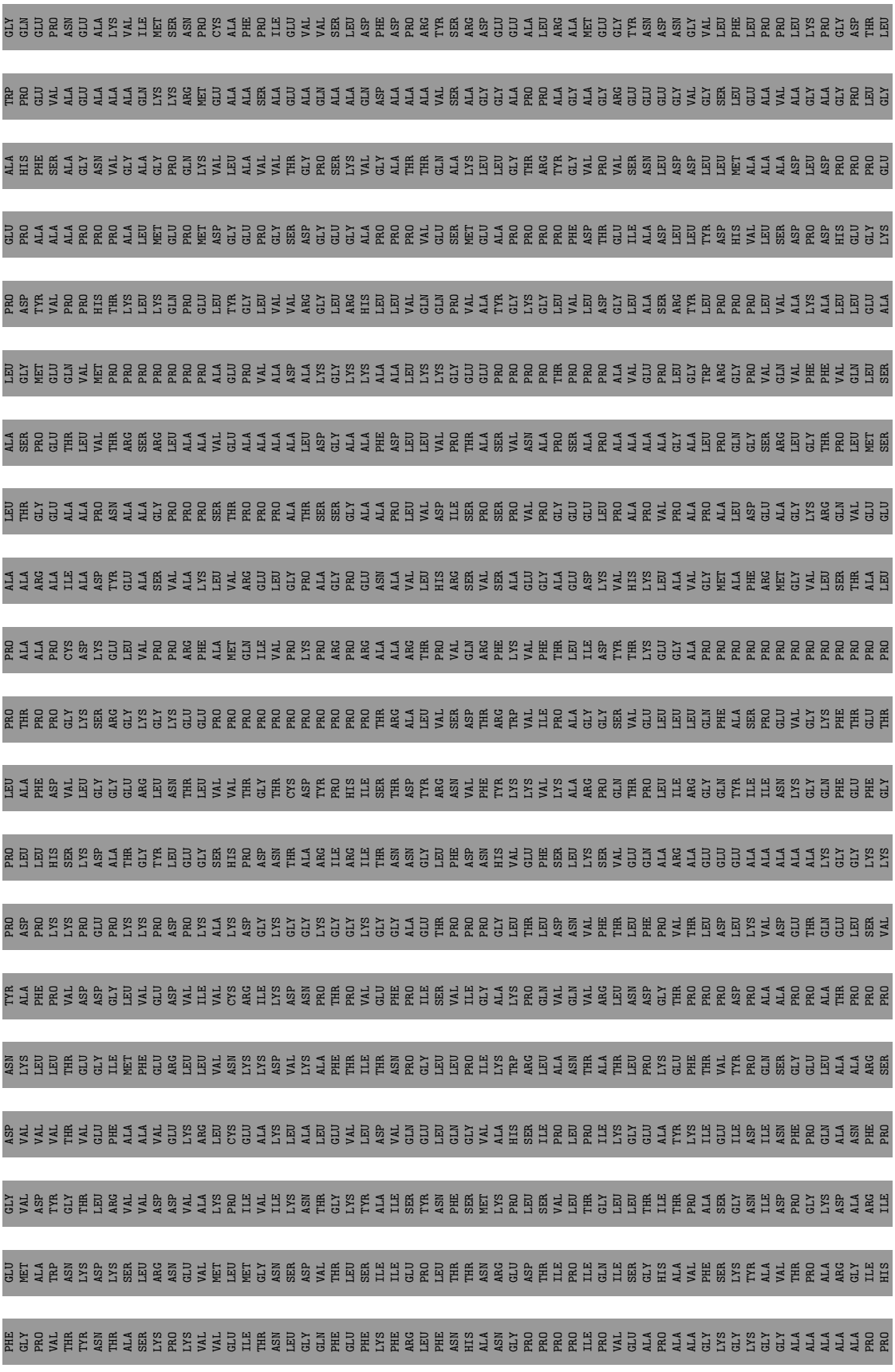


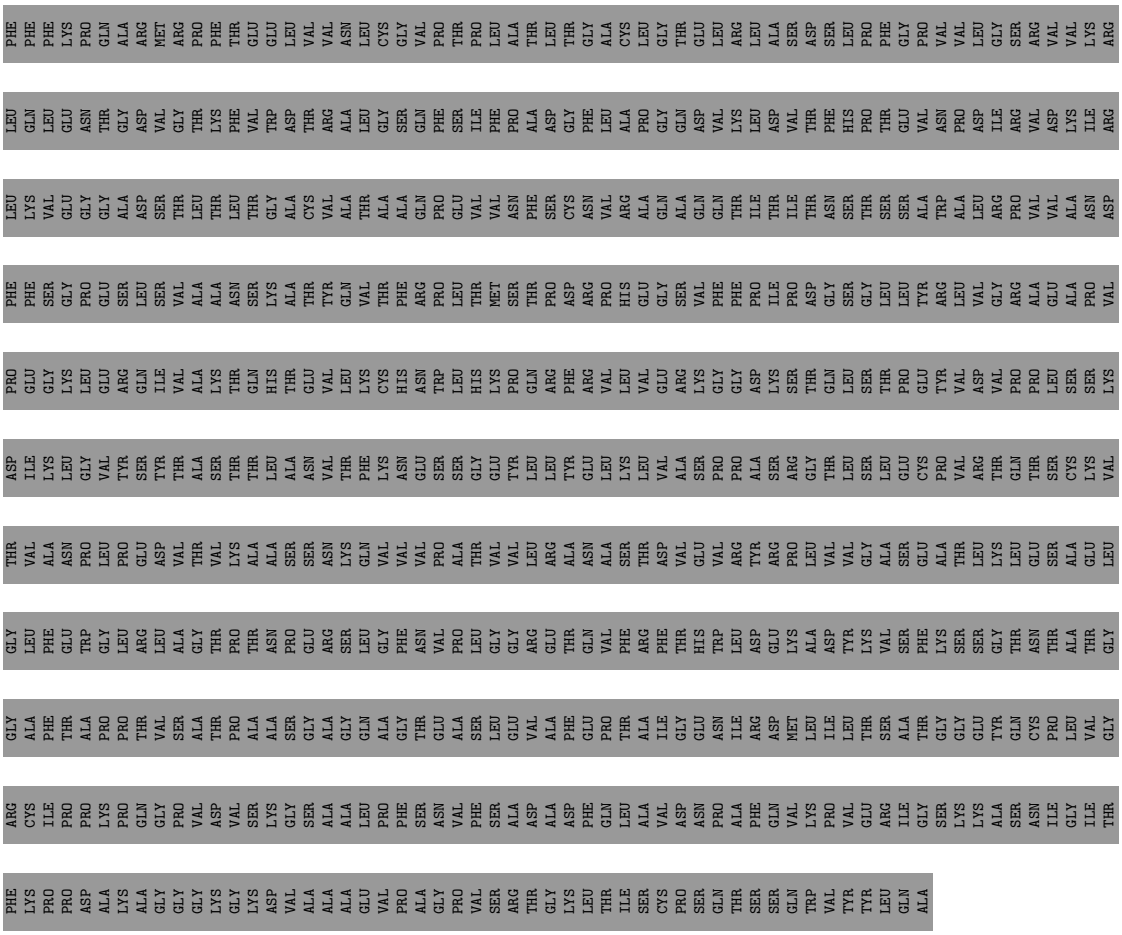
• Molecule 21: Hydin

Chain F2:



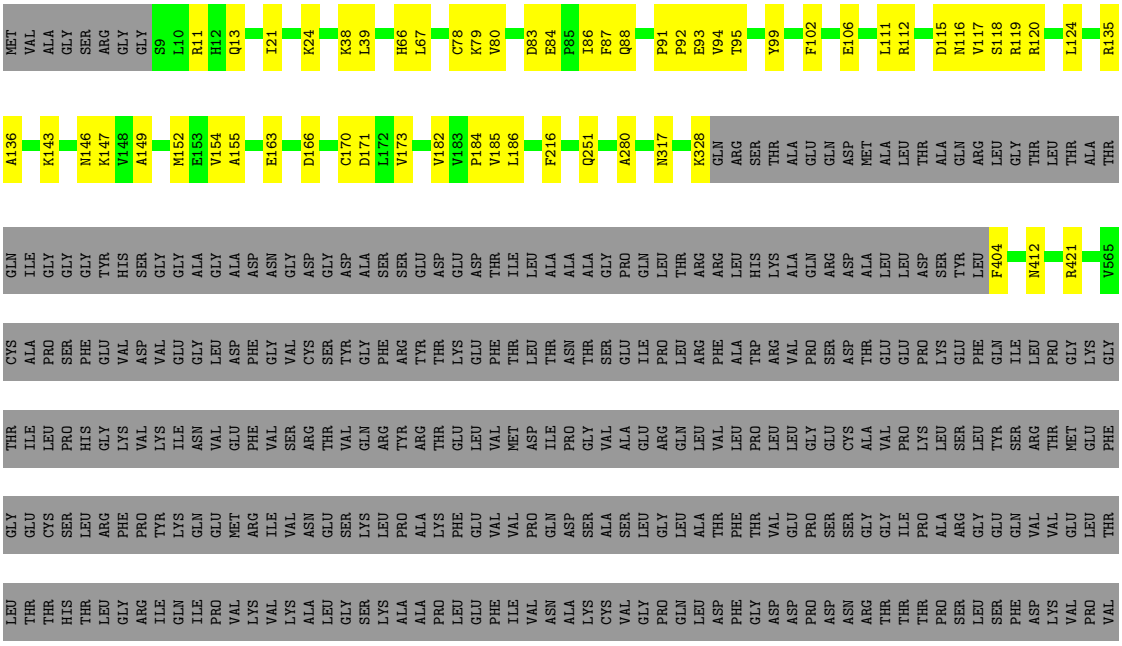

SER ARG THR MET GLU PHE GLY GLU CYS SER LEU ARG PHE PRO TYR LYS GLN GLU MET ARG ILE VAL ASN GLU SER LYS LEU PRO ALA LYS PHE GLU VAL VAL PRO GLN ASP SER ALA SER LEU GLY LEU ALA THR PHE THR VAL GLU PRO SER SER GLY GLY ILE PRO ALA ARG GLY GLU
GLN VAL VAL GLU LEU THR LEU THR THR HIS THR LEU GLY ILE GLN ILE PRO VAL LYS VAL LYS ALA LEU GLY SER LYS ALA ALA PRO LEU GLU PHE ILE VAL ASN ALA LYS CYS VAL GLY PRO GLN LEU ASP PHE GLY ASP ASP PRO ASP ASN ARG THR THR PRO SER LEU SER
PHE ASP LYS VAL PRO VAL LEU LYS GLU HIS SER LEU PRO LEU VAL ILE ASN ASN CYS SER ALA ILE PRO ALA ASP PHE LYS LEU PHE ILE GLU SER LYS ASP SER VAL PHE SER VAL GLU PRO ARG GLN LEU ALA HIS LEU GLU PRO GLY ASP PRO GLY ASP ASP PRO ASP ASN THR THR PRO THR ALA HIS VAL MET VAL LYS MET
ASP GLU SER MET ASP PHE ALA ASP THR LEU HIS VAL LEU ILE GLN GLU GLY ALA ASP MET ALA ILE PRO LEU THR SER SER GLY VAL GLY ALA GLU GLU PHE ALA SER GLY LEU GLU ASP GLY PHE ARG PRO PHE THR ALA HIS VAL LEU GLY ASP PHE GLY TYR GLN PHE VAL THR LYS SER VAL
TYR ASN MET VAL MET LEU ALA TRP SER SER ARG TYR GLU GLU LEU LYS LYS GLU TYR ALA LYS ALA ASN ARG GLY ALA GLY LYS LYS PHE ASP ILE VAL LEU ILE PRO GLN GLU GLN LEU GLY VAL ARG THR SER GLN THR PRO ASP LYS VAL GLN LEU GLY PRO LYS
GLU ALA ALA THR PHE THR VAL THR GLY ASN ALA ALA LEU THR CYS ASN GLY THR PHE GLY ASN ASN ALA LYS GLY THR LYS LYS VAL PHE GLU THR THR MET ARG ALA ASP VAL ALA THR PRO LEU LEU HIS PHE SER ASP ARG LEU MET HIS PHE
ARG TYR THR TYR LYS LYS GLY ALA ALA ILE GLU GLU THR GLN THR ARG PRO LEU THR LEU LYS ASN VAL SER PRO LEU PRO LEU THR PHE GLY LEU ARG PRO GLN PRO PHE THR THR VAL ASP ARG THR SER TRP THR LEU ASP LEU GLU GLU GLU SER GLY THR VAL ASN VAL THR PHE ASP PRO
ASN PHE LYS ASP LEU GLN SER MET GLN SER ARG THR LYS LEU SER VAL VAL TYR SER ASP ASN PRO GLN ARG ASP SER VAL ASP LEU HIS GLY ASP ILE ASP PHE PRO ASN LEU ALA PHE GLU THR THR THR VAL ASP PHE GLY SER VAL LEU LEU ASP THR THR VAL ASN VAL THR PHE ASP PRO
VAL ARG VAL VAL ASN SER SER ASN VAL ASP VAL VAL TYR SER TRP ALA TRP ASP LYS SER SER VAL GLN GLU ASP VAL ASN SER ILE ALA SER MET SER LEU ARG GLN GLY ARG PRO LYS PRO PRO PRO THR GLN LEU PHE ASP VAL MET PRO ILE ARG GLY VAL LEU LEU ARG PRO GLY GLU
ALA GLU THR MET THR PHE PHE SER ALA ALA TYR PRO GLY MET ARG ALA SER CYS SER ALA VAL CYS GLN VAL GLU GLY GLY PRO LEU TYR THR VAL GLN LEU ALA GLY GLU SER ASN ASN ILE LYS TYR SER VAL GLU PRO GLN GLY MET ASP PHE GLY GLN GLN LEU TYR ASP ARG ALA
VAL GLU ARG GLU LEU THR LEU THR ASN SER GLY LYS VAL PRO PHE THR PHE ASN PHE ASN SER ARG LEU SER ARG PRO GLY ILE VAL GLU ALA THR PRO SER SER GLY ALA ILE ALA PRO LEU THR LYS GLU VAL ILE LYS VAL ARG VAL LEU ILE PRO GLU LYS LEU THR
GLU THR LEU LEU VAL GLU VAL ALA HIS PHE GLU PRO ILE PRO LEU ASN LEU PRO ARG HIS ARG ASP GLU THR PHE VAL ASP CYS LEU GLU LYS ALA ARG ALA ALA ILE ILE GLU ALA ALA ILE ALA ALA ILE ILE ALA GLY ILE PRO VAL PRO ALA ASP
GLU PRO ASN ALA PRO ASP GLY GLY ARG ASP GLY THR GLY SER VAL ALA SER PRO THR ARG PRO THR ALA ASP ALA SER ARG SER ILE ALA GLY ALA ARG SER VAL ALA ALA GLY GLY ALA GLY SER ARG
LEU ALA ALA SER LYS SER MET ALA ARG PRO PRO GLY THR ALA MET GLN ARG ALA GLN SER SER ALA HIS SER SER THR ALA GLY HIS GLY GLY ALA GLN LEU SER SER GLU LYS LYS ILE GLU VAL GLU ALA GLU ARG LEU ARG LEU ILE THR LEU GLU ARG GLU ALA GLU LYS ARG ARG
GLN GLN GLU GLN ALA ASN ALA VAL ALA ASP GLY ASN ARG GLY GLY GLN PRO SER PRO GLY ALA LEU GLN ARG GLN HIS GLY ASN ALA ASP GLY ASN GLN SER PRO THR ALA SER ARG GLU ALA GLY ASP ALA ARG
SER GLY GLY GLY ALA ALA SER VAL ALA ILE SER THR VAL THR GLY PHE ALA GLY ARG ALA ALA PRO ALA VAL VAL ASP PRO LEU ALA PRO GLU GLU GLY ARG ARG PRO LEU SER LEU GLN LEU PRO ALA LEU
PRO SER LEU ALA VAL HIS TYR VAL LEU ASP PHE GLY TYR VAL LYS GLY LEU THR ARG THR ARG LYS PHE LYS LEU LEU THR ASN THR SER ASN GLN GLN VAL SER PHE ARG PHE ASP LYS THR LEU LEU GLU ASN ASN GLY PHE LYS VAL ASP PRO GLU VAL LEU SER LEU ARG LEU PRO
GLY ALA PRO GLU PHE ALA SER VAL ALA ALA VAL THR LEU GLN ALA ALA ASN LYS SER THR VAL GLN PRO GLY LEU LEU GLU LEU SER TYR PRO ILE THR ILE LYS GLY SER PRO PRO VAL LEU LEU THR LEU LYS ALA HIS VAL GLN VAL PRO ASP LEU LEU LYS LEU SER THR LEU VAL
ASP PHE GLY ALA ARG VAL THR ALA ILE LYS LYS PRO ALA GLU VAL ILE LYS ALA LYS ASP TRP GLN PHE PHE VAL CYS GLU PRO SER GLU GLU GLY LEU GLU ILE ILE ASP GLN ARG MET
LEU LYS VAL MET PHE THR PRO ILE LEU ASN LEU ASN PRO ARG MET LYS GLU LEU GLN ALA SER GLY ARG GLY LEU THR PRO ARG VAL ILE PHE SER PRO THR PHE VAL ASP CYS GLY ALA ILE LEU PRO ALA PHE GLU

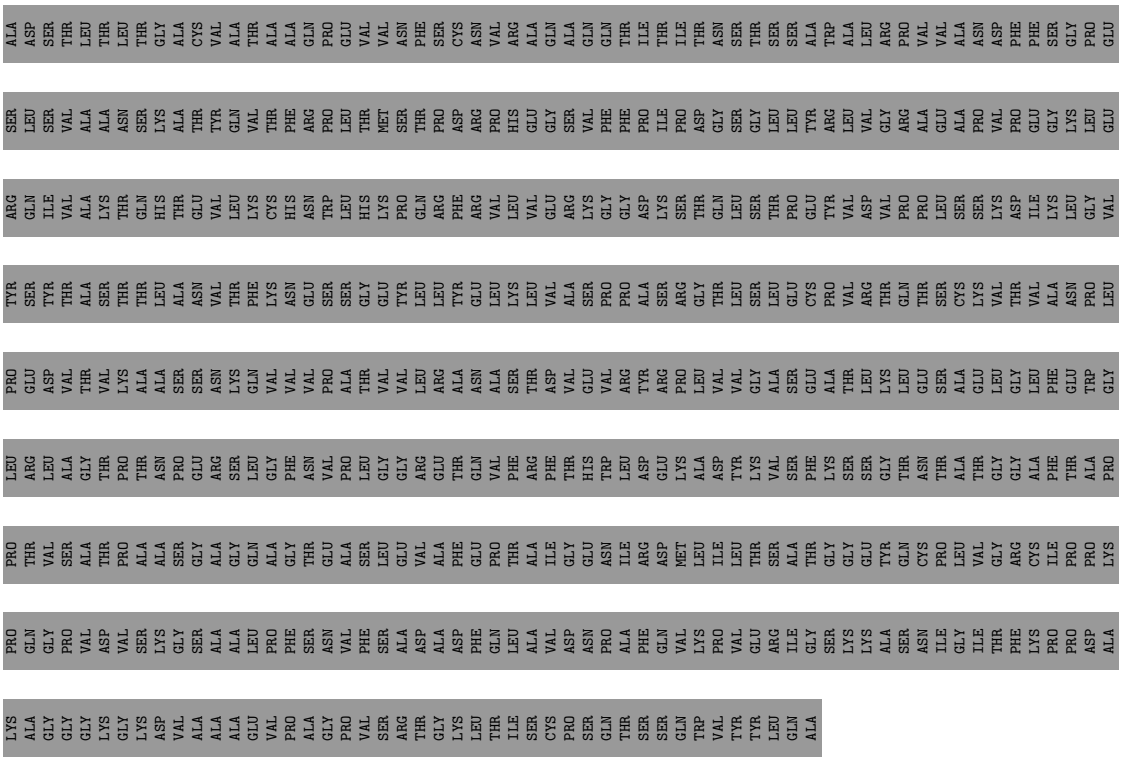

GLY GLN GLU PRO ASN GLU ALA LYS VAL ILE MET SER ASN PRO CYS ALA PHE PRO ILE GLU VAL VAL SER LEU ASP PHE ASP PRO ARG TYR SER ARG ASP GLU GLU ALA LEU ARG ALA MET GLU GLY TYR ASN ASP ASN GLY VAL LEU PHE LEU PRO PRO LEU LYS PRO GLY ASP THR LEU
TRP PRO GLU VAL ALA GLU ALA ALA ALA GLN LYS LYS ARG MET GLU ALA ALA SER ALA GLU GLN ALA ALA ALA GLN ASP ALA ALA ALA VAL SER ALA GLY GLY GLU ALA PRO PRO ALA GLY ALA ALA GLY ARG GLU GLU GLU GLY VAL GLY SER LEU GLU ALA VAL ALA ALA GLY ALA ASP PRO
ALA HIS PHE SER ALA GLY ASN VAL GLY ALA GLY PRO GLN LYS VAL LEU ALA VAL VAL THR GLY PRO SER LYS VAL GLY ALA THR THR GLN ALA LYS LEU LEU GLY THR ARG TYR GLY VAL PRO VAL SER ASN LEU ASP SER LEU LEU MET ALA ALA VAL ASP LEU ASP PRO GLU
GLU PRO ALA ALA ALA PRO PRO PRO ALA LEU MET GLU PRO MET ASP GLY GLU PRO GLY SER ASP GLY GLU GLY ALA PRO VAL GLU SER MET GLU ALA PRO PRO PRO PHE ASP THR GLU ILE ALA ASP LEU LEU TYR ASP HIS VAL LEU SER ASP PRO ASP HIS GLU GLY LYS
PRO ASP TYR VAL PRO PRO HIS THR LYS LEU LYS GLN PRO GLU LEU TYR GLY LEU VAL VAL ARG GLY LEU VAL VAL ARG GLY LEU ARG HIS LEU LEU VAL GLN GLN PRO VAL ALA ALA LEU GLY LEU ASP GLY LEU ALA SER ARG TYR LEU PRO PRO PRO LEU GLU GLU ALA
LEU GLY MET GLU GLN VAL PRO PRO PRO PRO PRO PRO ALA ALA LYS GLY LYS LYS ALA LEU LEU LYS LYS GLY GLU GLU PRO LEU GLY TRP ARG GLY PRO VAL GLN VAL PHE PHE VAL GLN LEU SER
ALA SER PRO GLU THR LEU VAL THR ARG SER LEU ALA ALA ALA ALA ALA ALA ALA ASP LEU ASP GLY ALA ALA PHE ASP SER ALA PRO ALA ALA ALA ALA GLY ALA LEU PRO GLN GLY SER ARG LEU GLY THR PRO LEU MET SER
LEU THR GLY GLU ALA ALA ALA GLY PRO PRO PRO SER THR PRO PRO PRO ALA THR SER SER GLY ALA ALA PRO LEU VAL ASP ILE SER PRO SER PRO VAL PRO GLY GLU GLU LEU PRO ALA ALA PRO VAL PRO ALA ALA PRO ALA LEU GLY ARG GLU GLU
ALA ALA ARG ALA ILE ALA TYR GLU ALA GLY PRO GLU ASN ALA ALA VAL LEU HIS ARG SER VAL SER ALA GLU ASP LYS VAL HIS LYS LEU ALA VAL GLY MET ALA PHE ARG MET GLY VAL LEU SER THR ALA LEU
PRO ALA ALA PRO CYS ASP LYS GLU LEU VAL PRO PRO ARG PRO ALA ALA ARG THR PRO VAL GLN ARG PHE LYS VAL PHE THR LEU ILE ASP TYR THR LYS GLU GLY ALA PRO PRO PRO PRO PRO PRO PRO PRO PRO PRO PRO PRO PRO PRO PRO PRO PRO PRO PRO PRO
PRO THR PRO PRO GLY LYS SER ARG GLY LYS LYS GLY GLU GLU PRO PRO PRO PRO PRO PRO THR ARG ALA LEU VAL SER ASP THR ARG TRP VAL ILE PRO ALA GLY GLY SER VAL GLU LEU LEU LEU GLN PHE ALA SER PRO GLU VAL ALA GLY LYS PHE THR GLU THR
LEU ALA PHE ASP VAL LEU GLY GLY GLU ARG GLY ASN VAL PHE TYR LYS LYS VAL LYS ALA ARG PRO GLN THR PRO LEU ILE ILE ARG GLY GLN PHE PRO GLN PHE GLU PHE GLY
PRO LEU LEU HIS SER LYS ASP ALA THR GLY TYR LEU GLU ARG ILE THR ASN ASN GLY LEU PHE ASP ASN HIS VAL GLY LEU THR LEU ASP LEU ALA ALA ALA ALA ALA ALA ALA LYS GLY GLN GLU PHE SER LEU LYS SER VAL GLU GLN ALA ARG ALA GLU GLU GLU GLU ALA ILE ASN LYS ALA ALA ALA GLU PRO LEU
PRO ASP PRO LYS LYS LYS PRO ASP PRO LYS ALA PRO GLY GLY LYS GLY GLY ALA GLU GLU THR PRO PRO PRO GLY VAL LEU THR LEU ASP ASN VAL PHE THR LEU PHE ASP LEU LYS VAL ASP ASN VAL GLU THR HIS LEU
TYR ALA PHE PRO VAL ASP ASP GLY VAL GLU ASP VAL ILE VAL ASP ASN VAL ASP PRO THR PRO VAL GLU PHE ASP PRO ILE SER VAL ILE GLY ALA LYS PRO GLN VAL GLN VAL ARG LEU ASN ASP PRO THR PRO PRO PRO PRO PRO ALA ALA ALA PRO PRO PRO ALA THR PRO PRO
ASN LYS LEU LEU THR GLU GLY ILE MET PHE GLU ARG LEU LEU VAL LYS ALA PHE THR ILE THR ASN PRO GLY LEU LEU PRO ILE LYS ALA ASN THR ALA THR LEU PRO LYS GLU PHE THR VAL TYR PRO ARG LEU ALA ASN VAL ALA ALA ALA ALA ALA ARG SER
ASP VAL VAL THR VAL GLU PHE ALA VAL GLU VAL LEU ASP LEU GLU VAL PRO ILE LYS GLY GLU ALA TYR LYS ILE GLU ILE PRO PRO GLN GLN VAL PHE
GLY VAL ASP TYR GLY THR LEU ARG VAL ASP ASP VAL LYS ASN THR GLY LYS TYR ALA ILE SER TYR ASN PHE SER MET LYS PRO LEU SER VAL LEU THR GLY LEU LEU THR ILE THR PRO ALA SER GLY ASN ILE ASP PRO GLY LYS ASP ALA ARG ILE
GLU MET ALA TRP ASN LYS ASP LYS SER ILE ILE GLU PRO LEU THR THR ASN ARG GLU ASP THR ILE PRO ILE GLN ILE SER GLY HIS ALA VAL PHE SER LYS TYR ALA VAL GLU ILE HIS
PHE GLY PRO VAL THR TYR ASN THR ALA SER LYS PHE ARG LEU PHE ASN HIS ALA ASN GLY PRO PRO PRO PRO ILE PRO VAL GLU ALA PRO ALA ALA GLY LYS GLY LYS GLY GLY ALA ALA ALA ALA ALA PRO PRO



• Molecule 21: Hydin

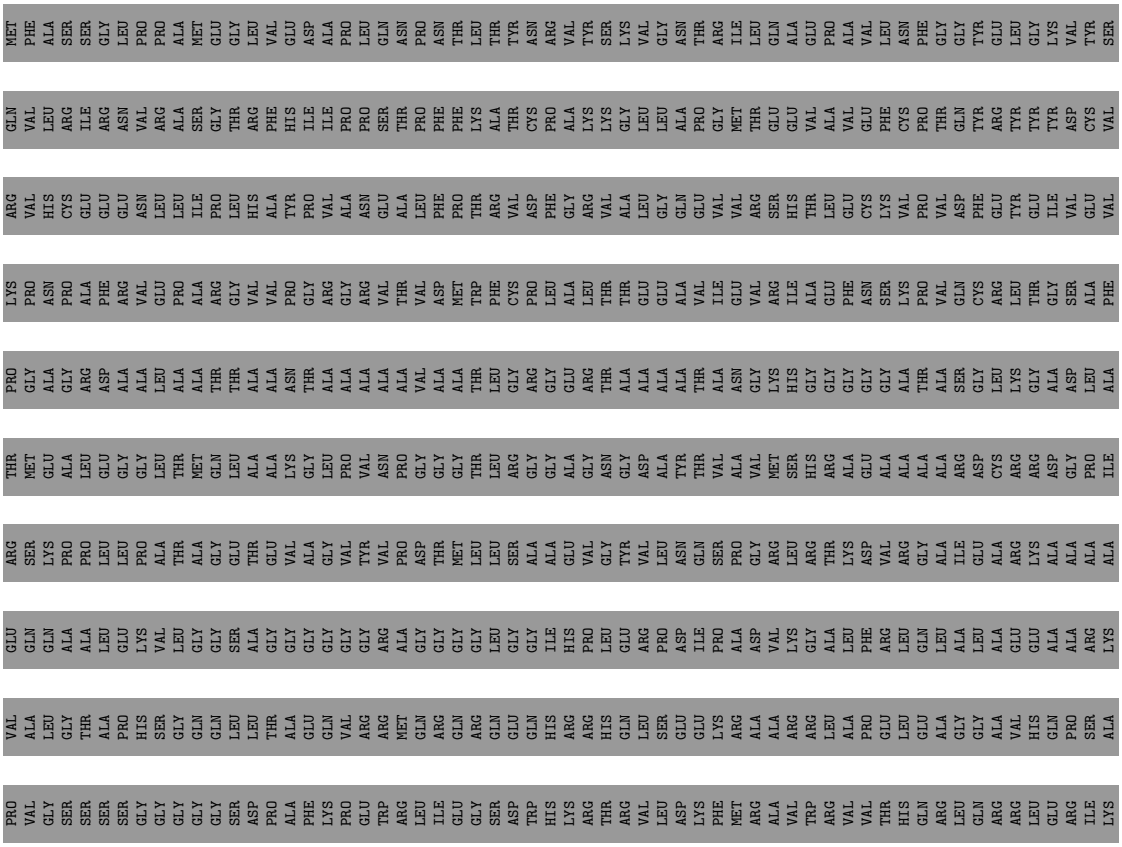
Chain F3:

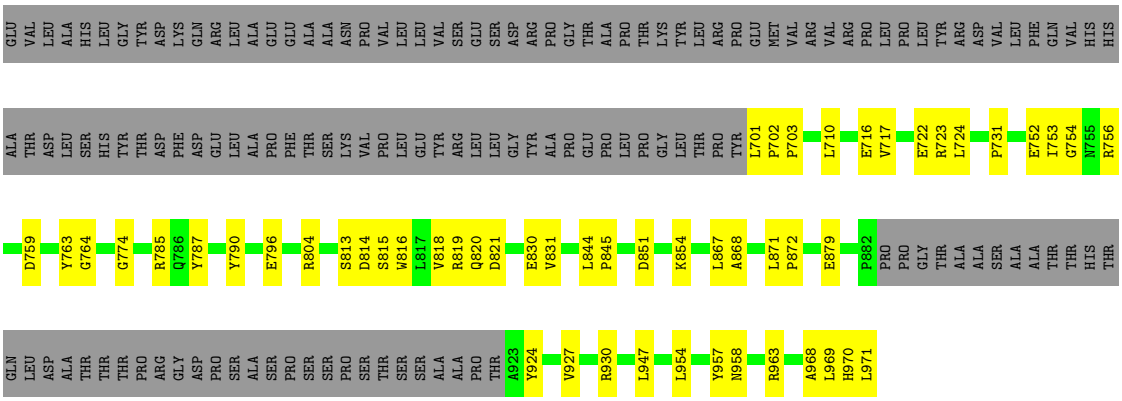




- Molecule 22: FAP221

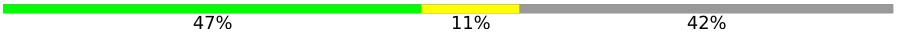
Chain M0: 18% 6% 76%

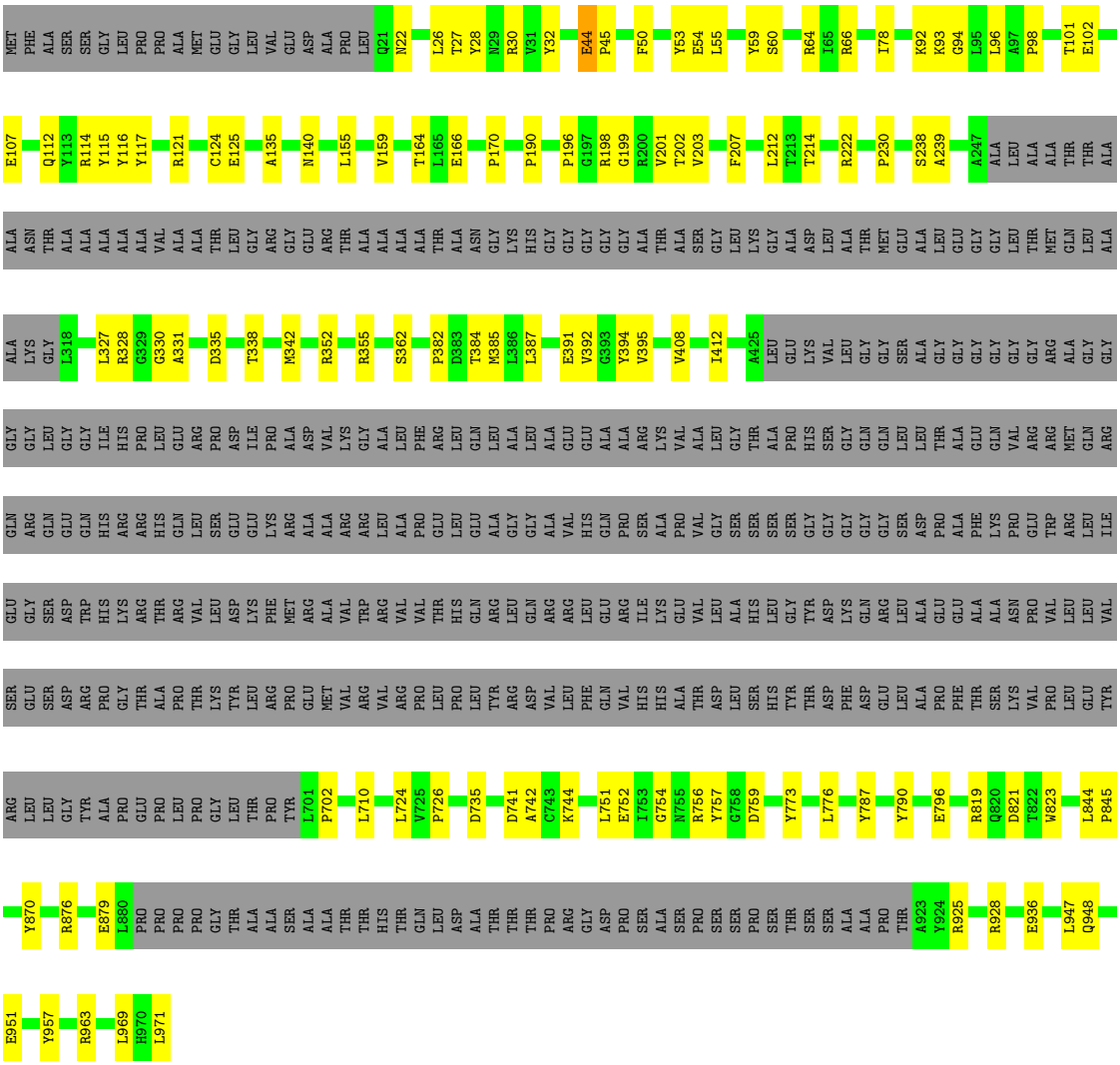




• Molecule 22: FAP221

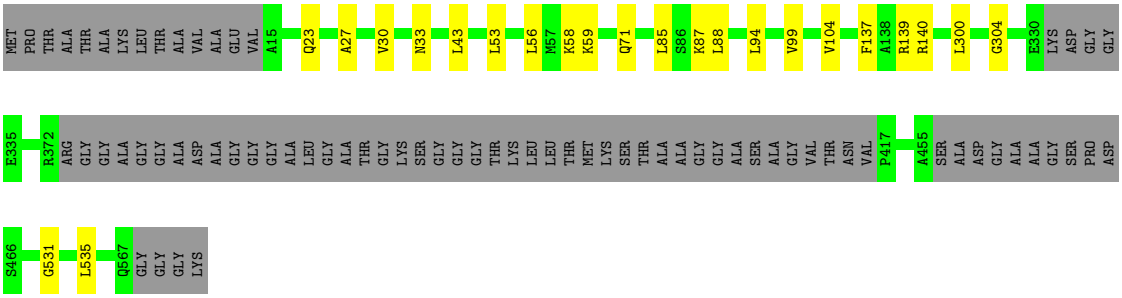
Chain M1:





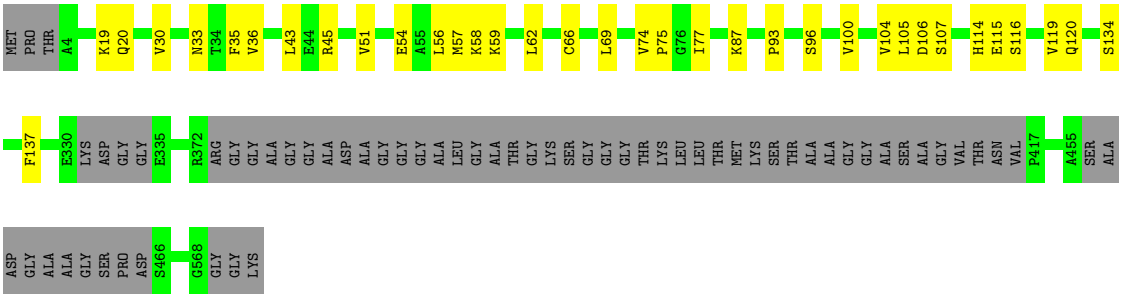
• Molecule 23: FAP194

Chain N0:



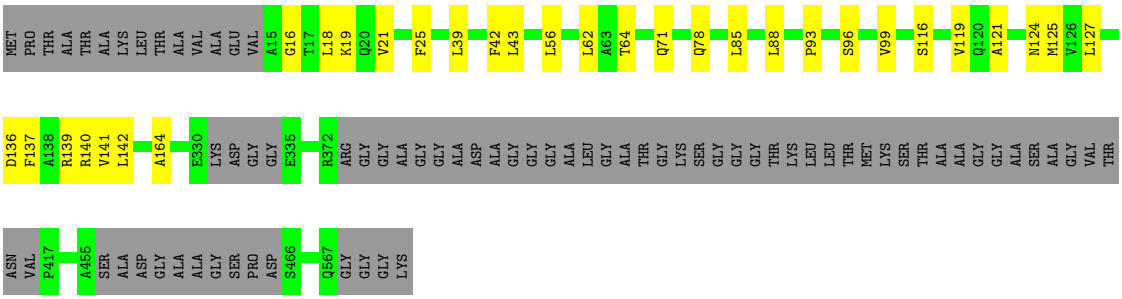
• Molecule 23: FAP194

Chain N1:



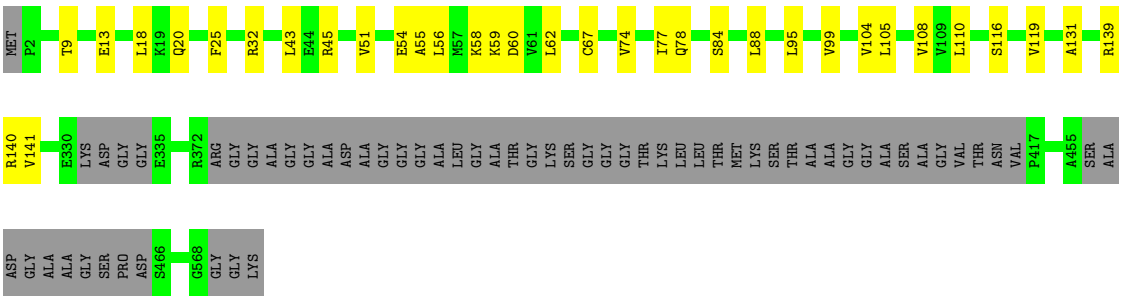
• Molecule 23: FAP194

Chain N2:



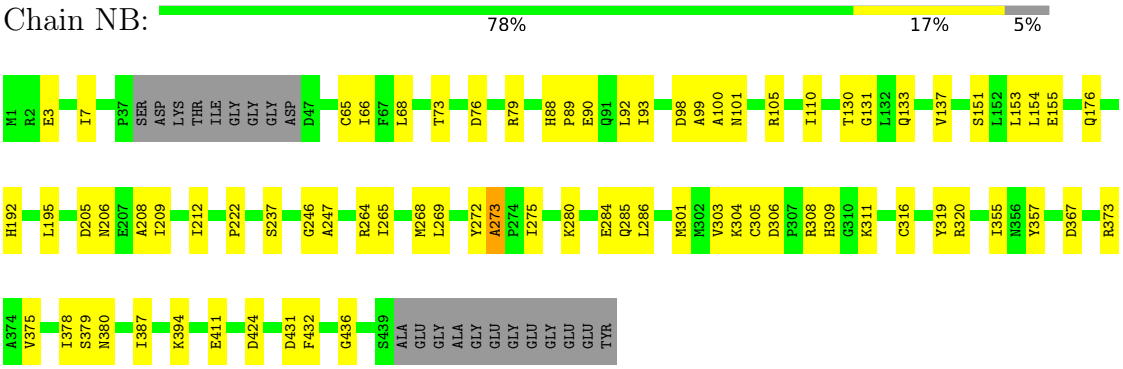
• Molecule 23: FAP194

Chain N3:



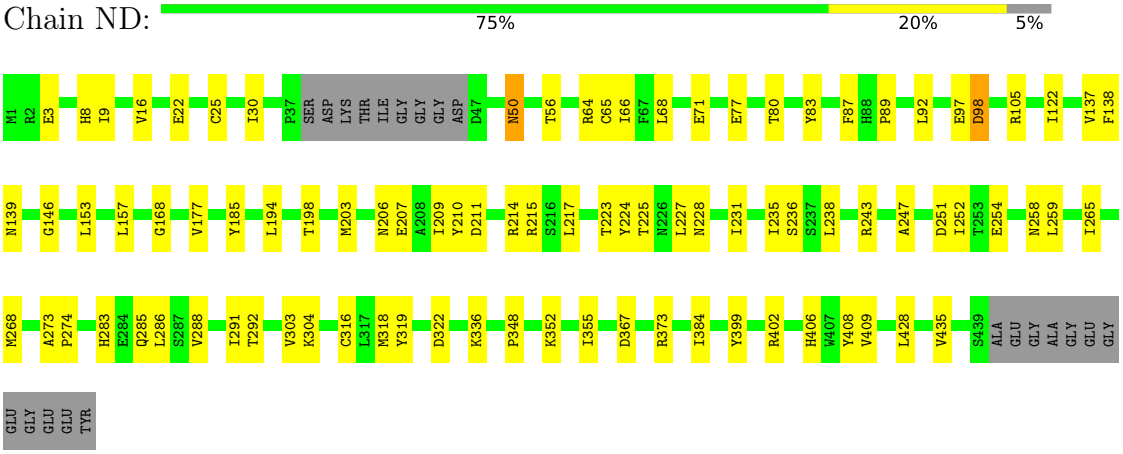
• Molecule 24: Tubulin alpha

Chain NB:



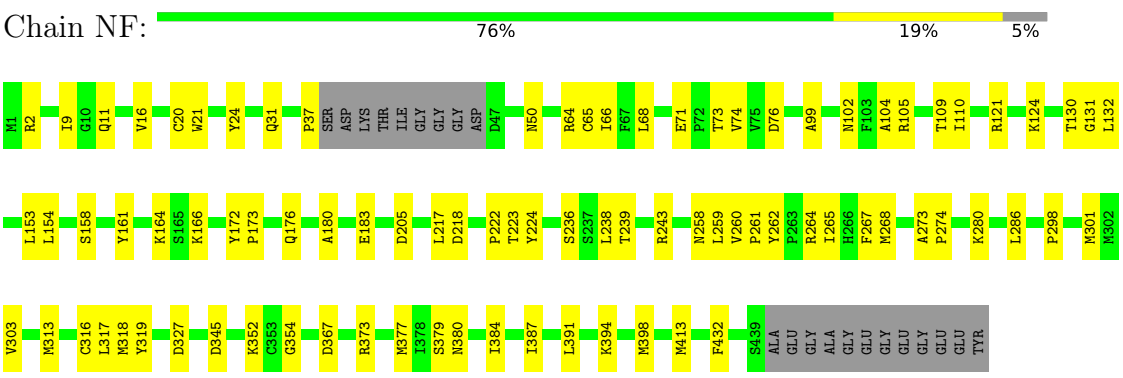
• Molecule 24: Tubulin alpha

Chain ND:



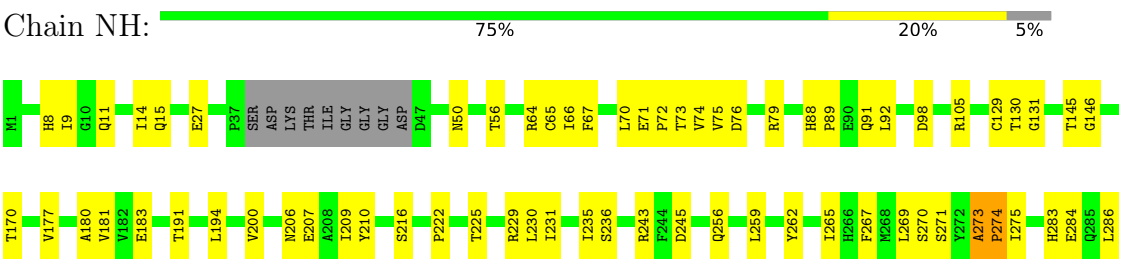
• Molecule 24: Tubulin alpha

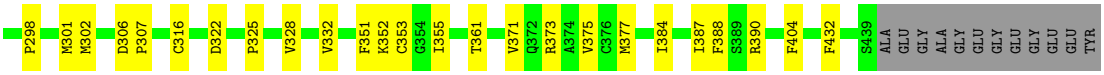
Chain NF:



• Molecule 24: Tubulin alpha

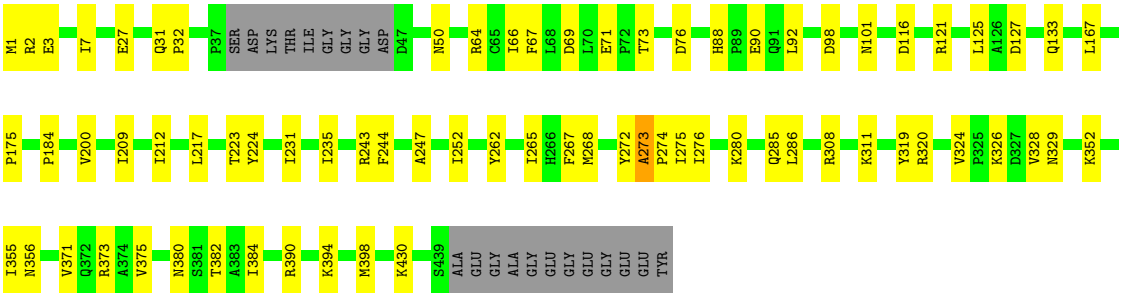
Chain NH:





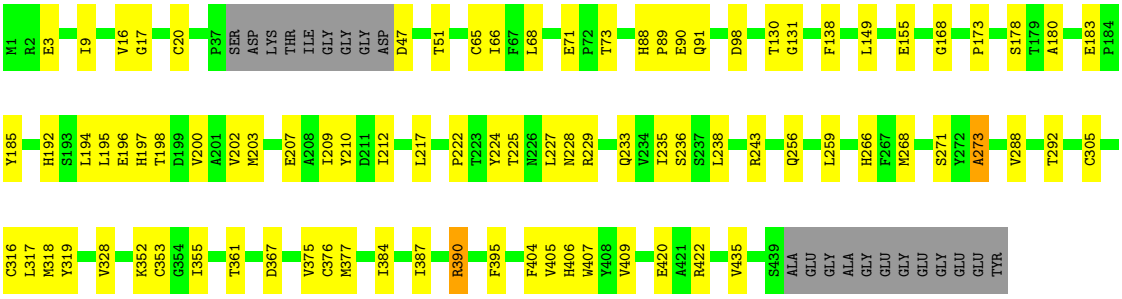
• Molecule 24: Tubulin alpha

Chain NJ:



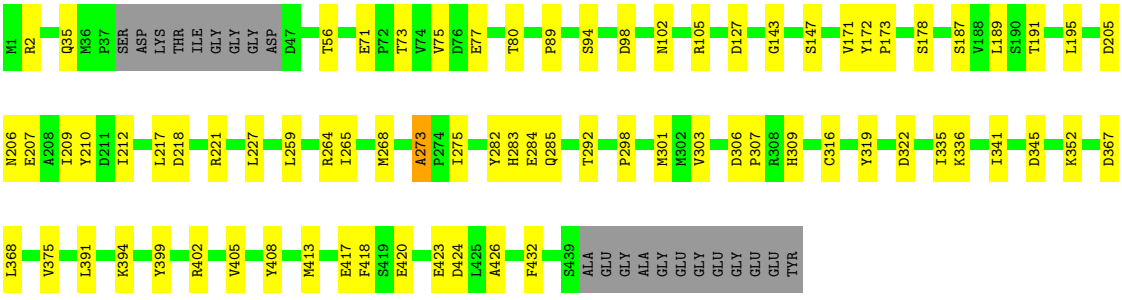
• Molecule 24: Tubulin alpha

Chain NL:



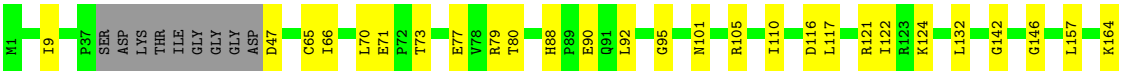
• Molecule 24: Tubulin alpha

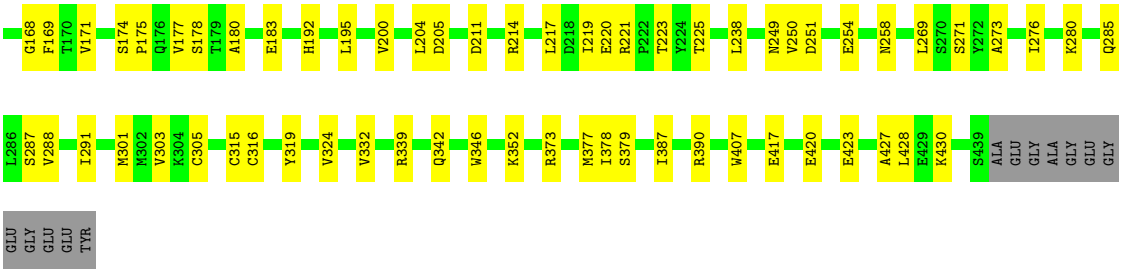
Chain NN:



• Molecule 24: Tubulin alpha

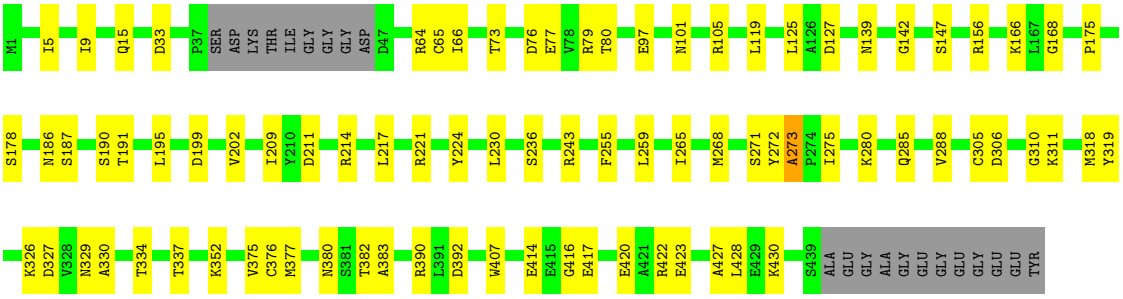
Chain OD:





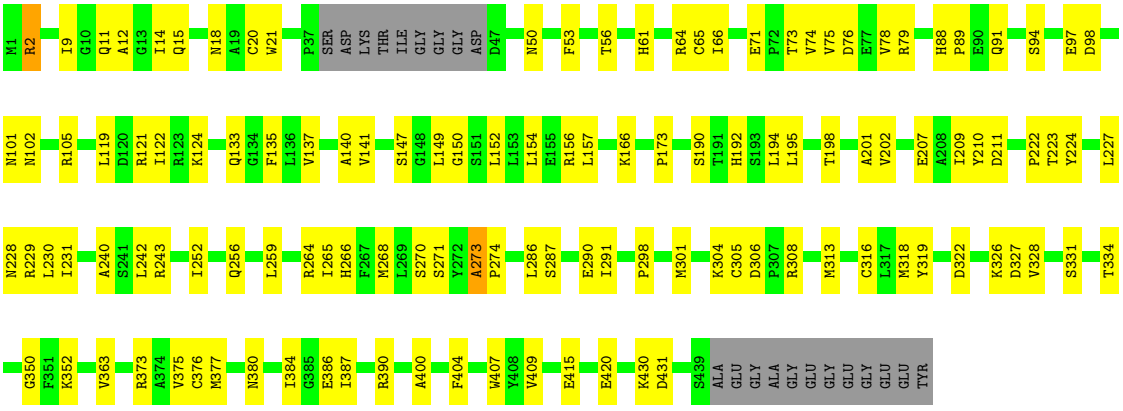
• Molecule 24: Tubulin alpha

Chain OF:



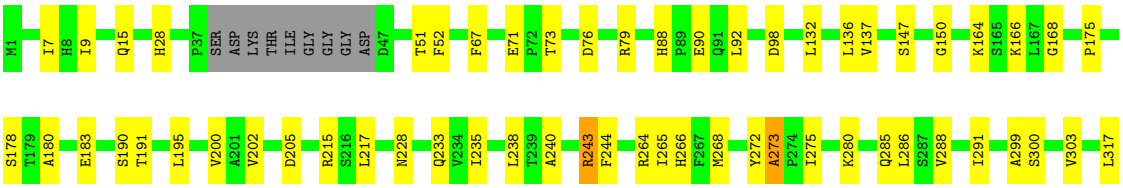
• Molecule 24: Tubulin alpha

Chain OH:



• Molecule 24: Tubulin alpha

Chain OJ:

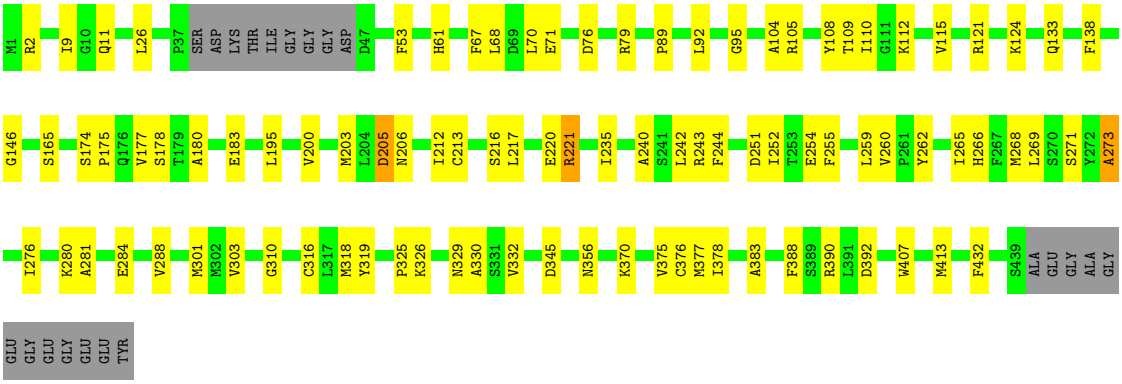


• Molecule 24: Tubulin alpha

Chain OL:

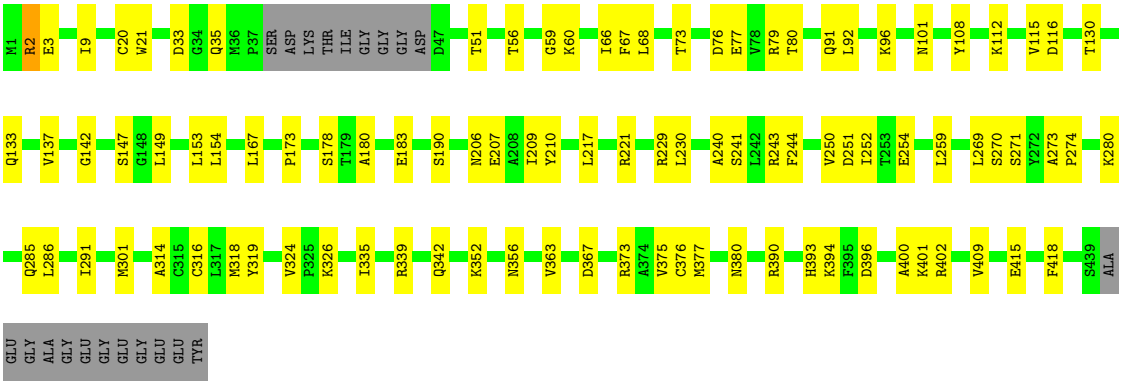
• Molecule 24: Tubulin alpha

Chain ON:



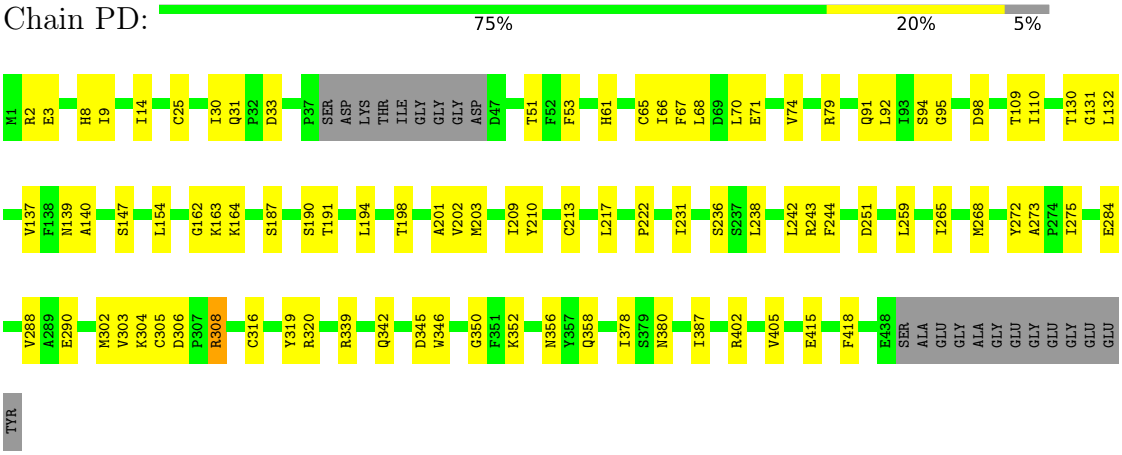
• Molecule 24: Tubulin alpha

Chain OP:



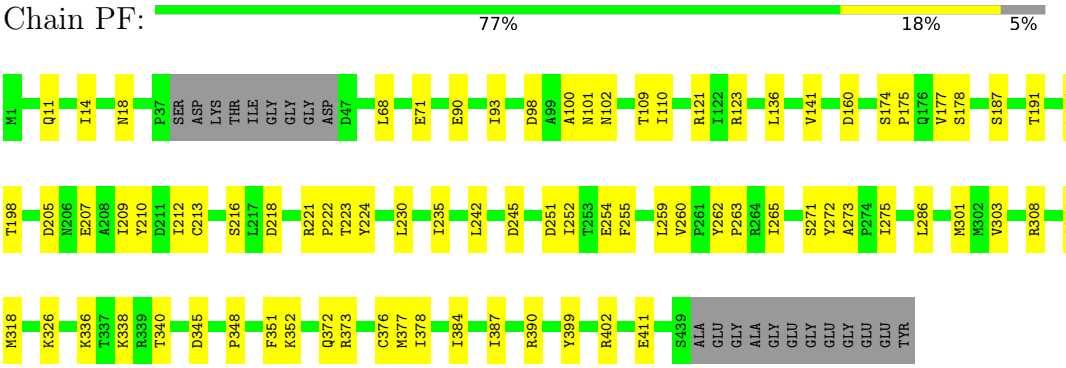
• Molecule 24: Tubulin alpha

Chain PD:



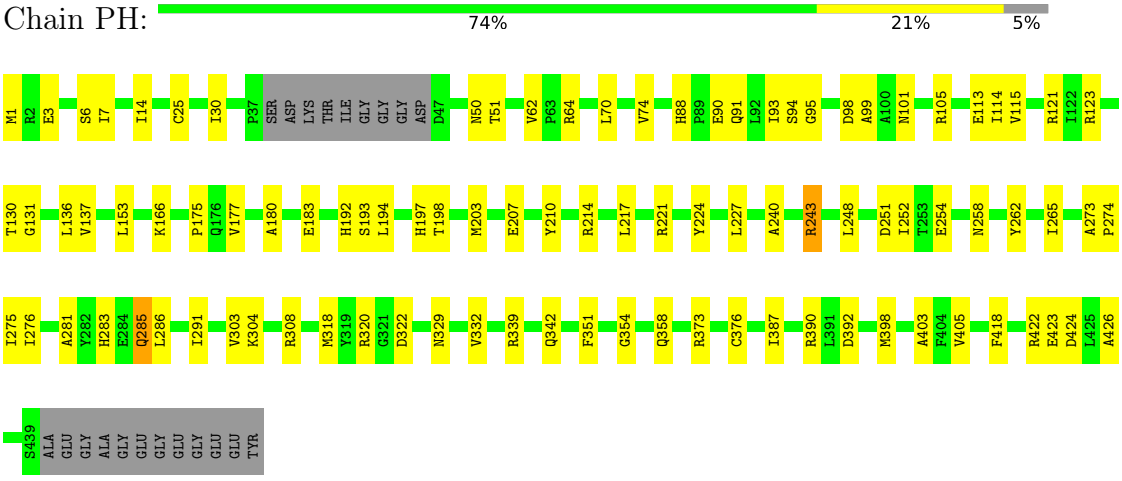
• Molecule 24: Tubulin alpha

Chain PF:



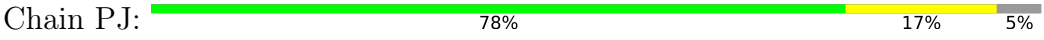
• Molecule 24: Tubulin alpha

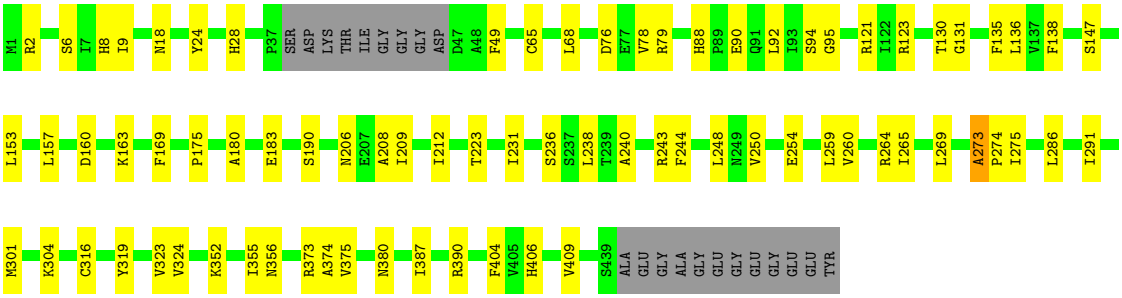
Chain PH:



• Molecule 24: Tubulin alpha

Chain PJ:



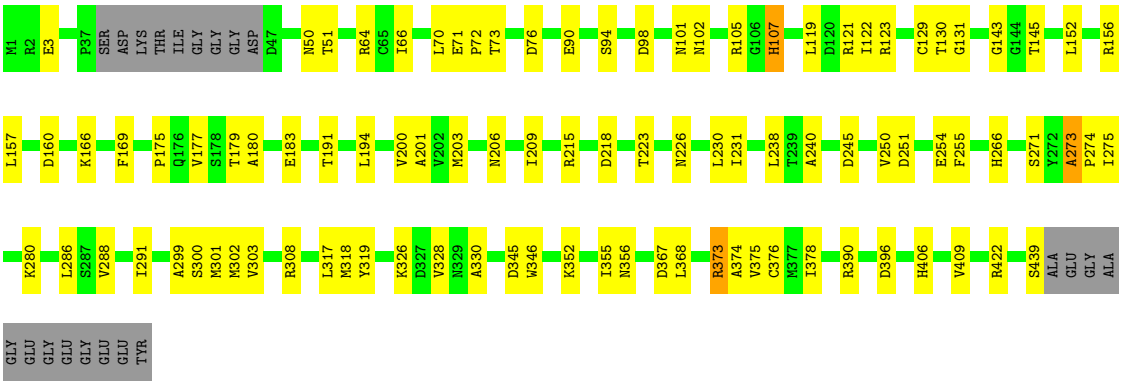


• Molecule 24: Tubulin alpha

Chain PL:

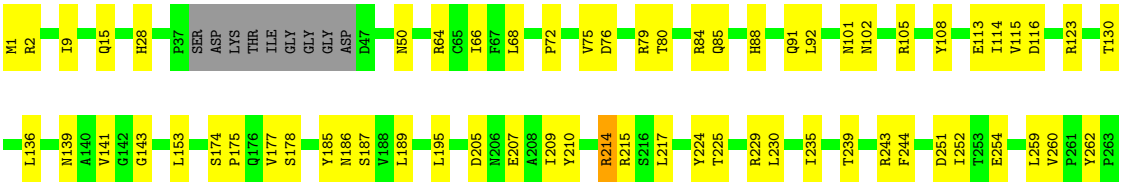
• Molecule 24: Tubulin alpha

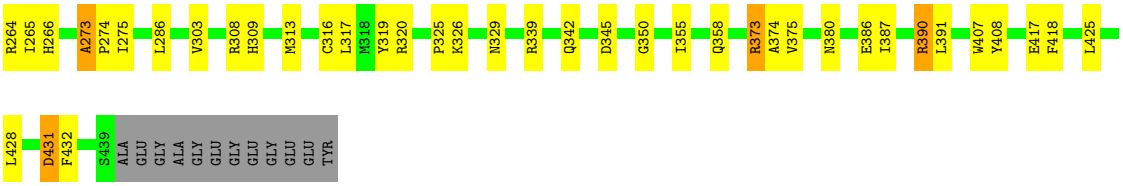
Chain PN:



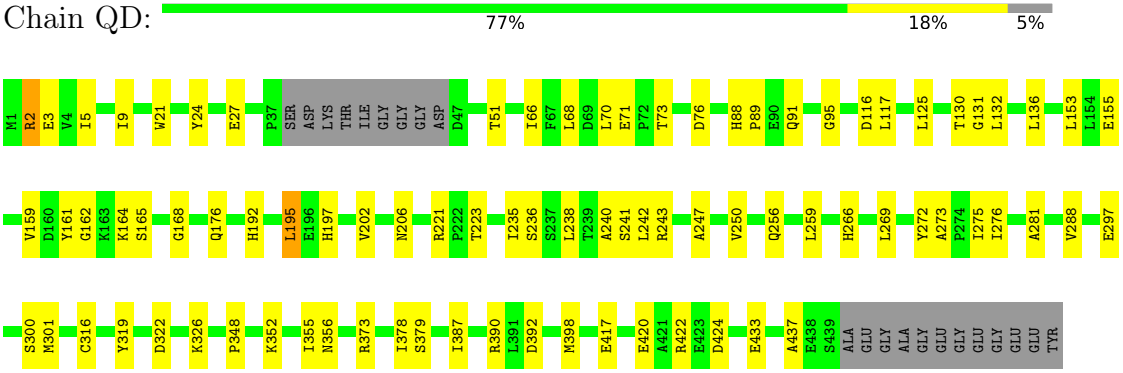
• Molecule 24: Tubulin alpha

Chain PP:

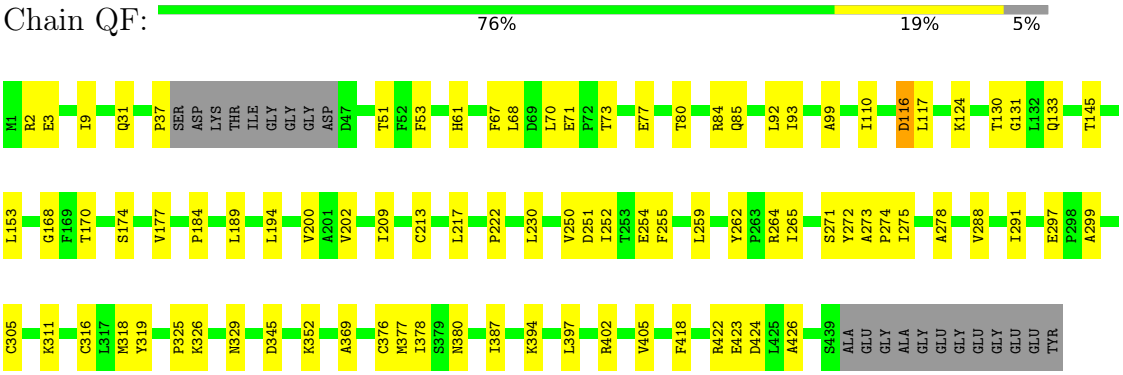




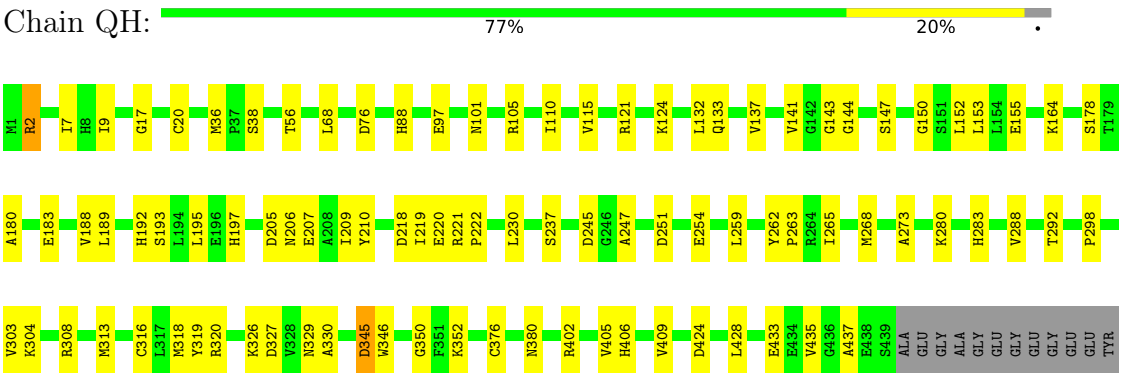
• Molecule 24: Tubulin alpha



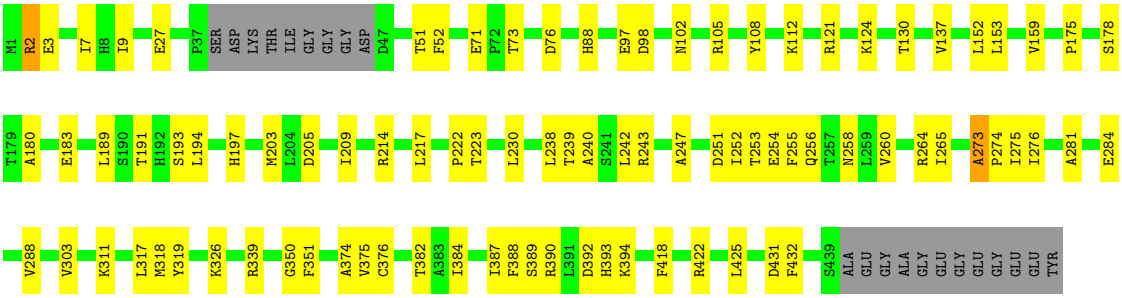
• Molecule 24: Tubulin alpha



• Molecule 24: Tubulin alpha

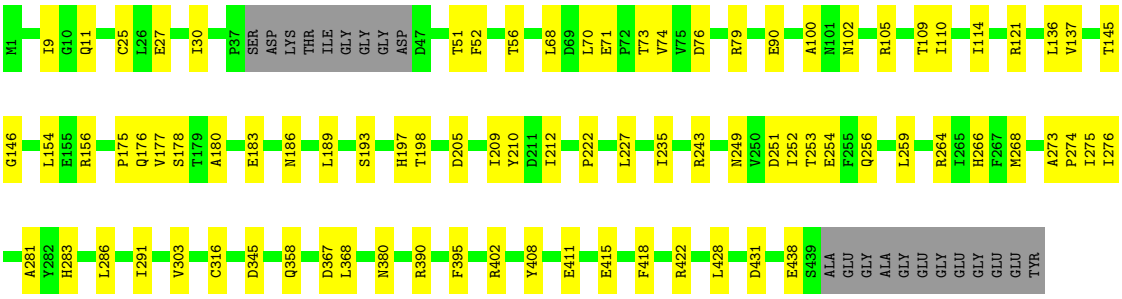


• Molecule 24: Tubulin alpha



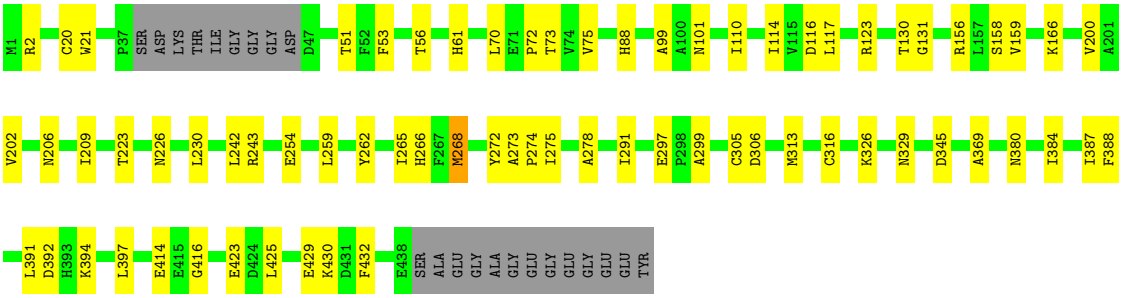
• Molecule 24: Tubulin alpha

Chain QL:



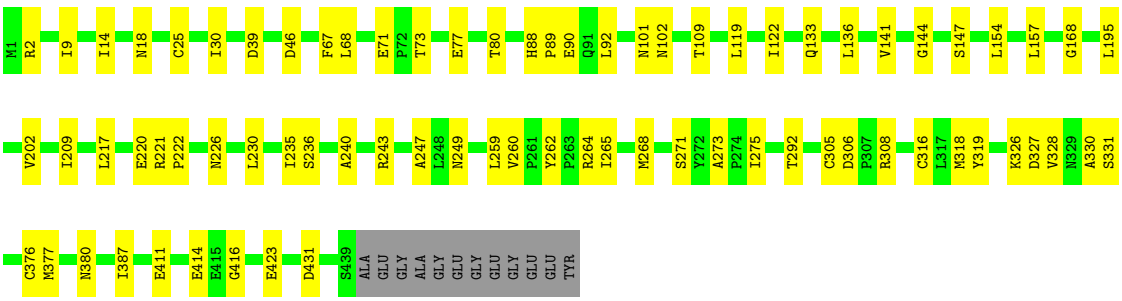
• Molecule 24: Tubulin alpha

Chain QN:



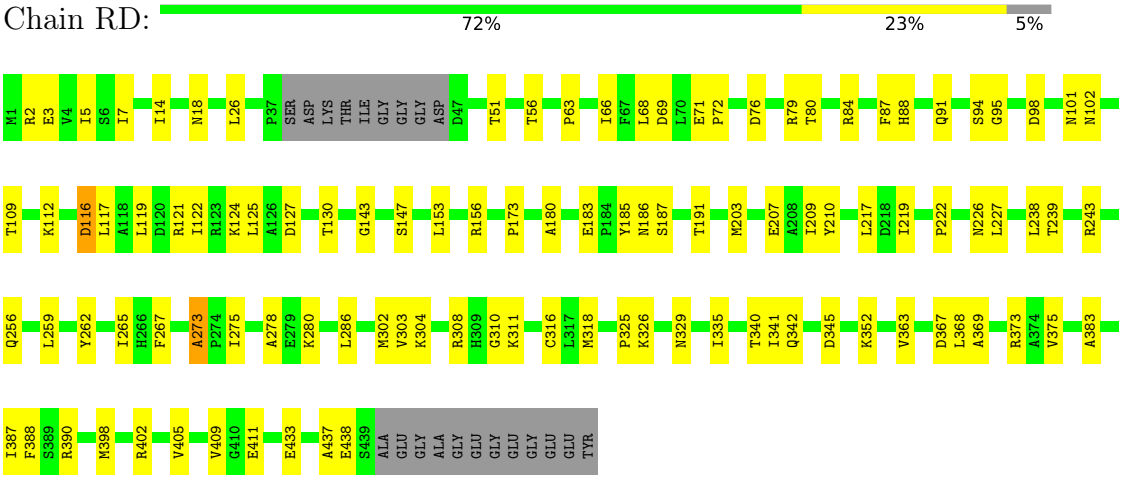
• Molecule 24: Tubulin alpha

Chain QP:



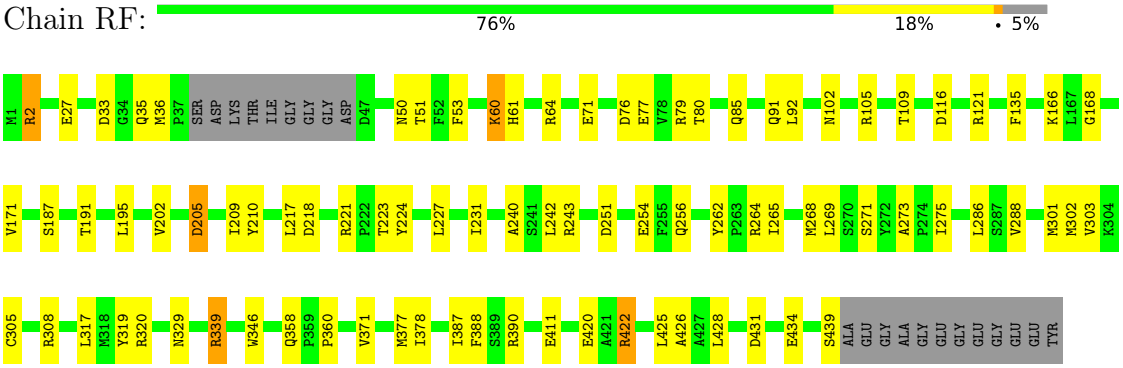
• Molecule 24: Tubulin alpha

Chain RD:



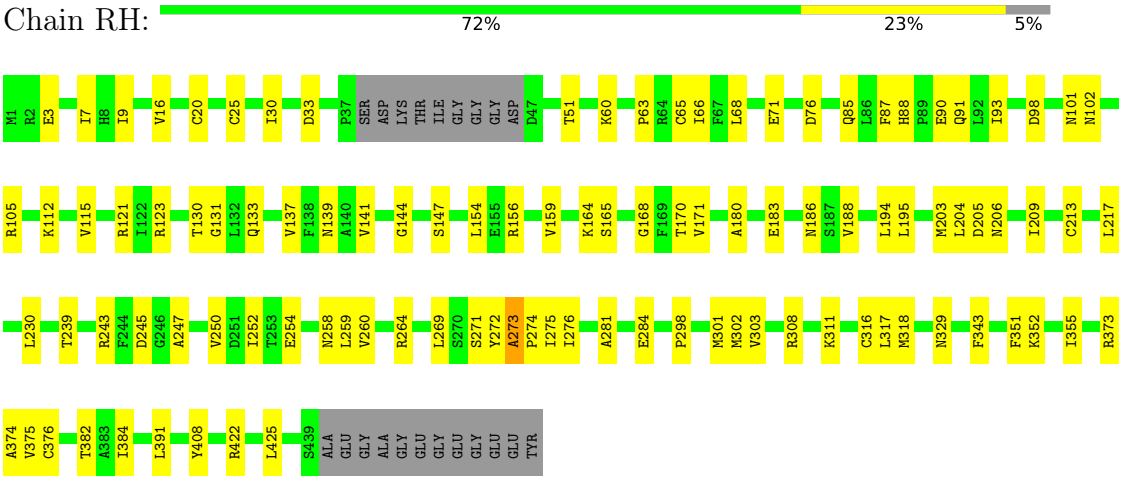
• Molecule 24: Tubulin alpha

Chain RF:



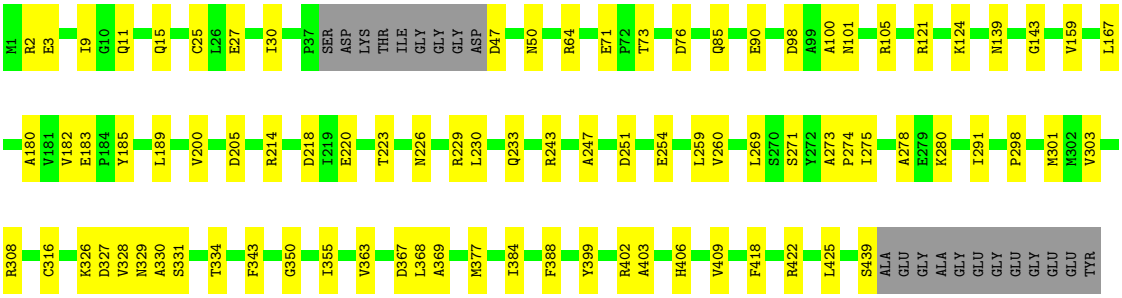
• Molecule 24: Tubulin alpha

Chain RH:



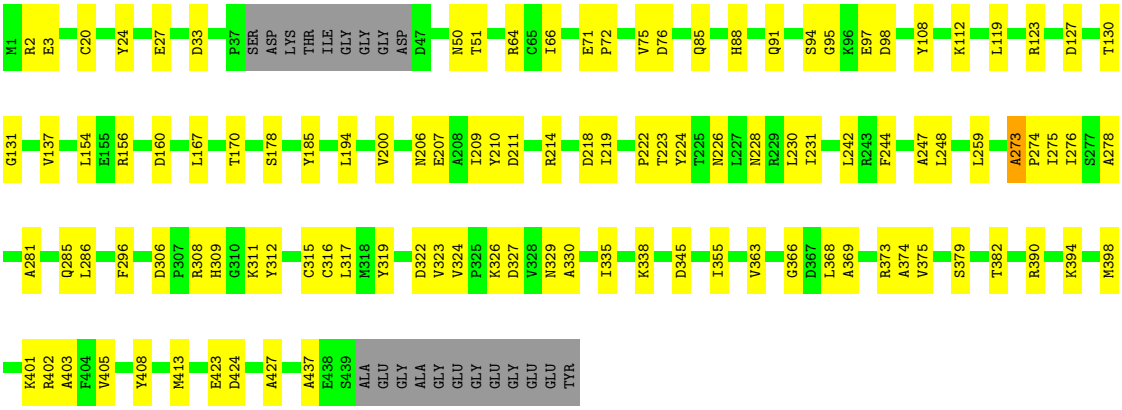
• Molecule 24: Tubulin alpha

Chain RJ:



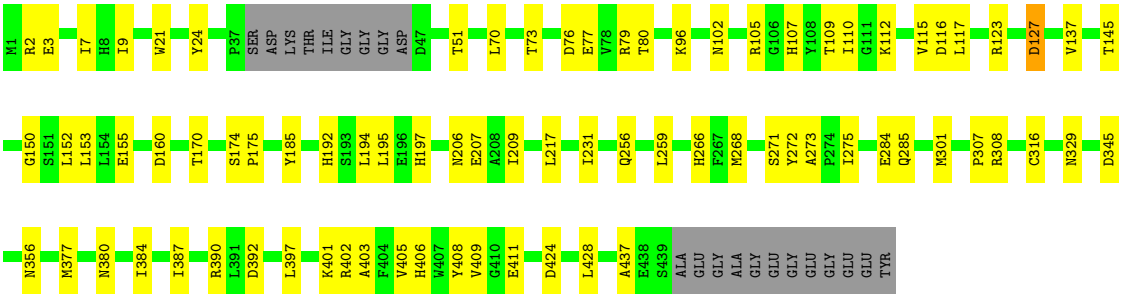
• Molecule 24: Tubulin alpha

Chain RL:



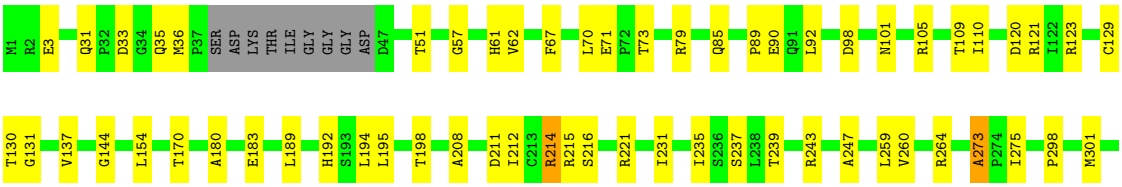
• Molecule 24: Tubulin alpha

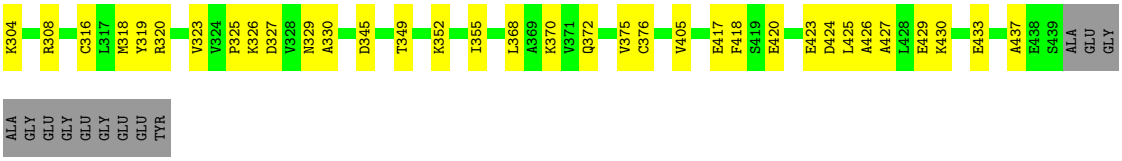
Chain RN:



• Molecule 24: Tubulin alpha

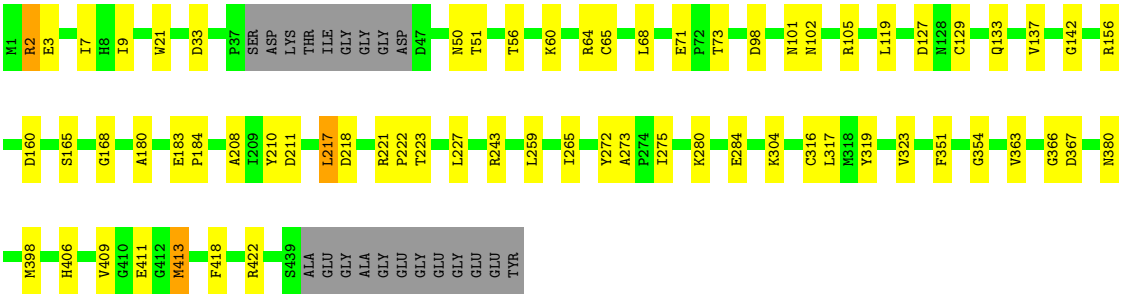
Chain RP:





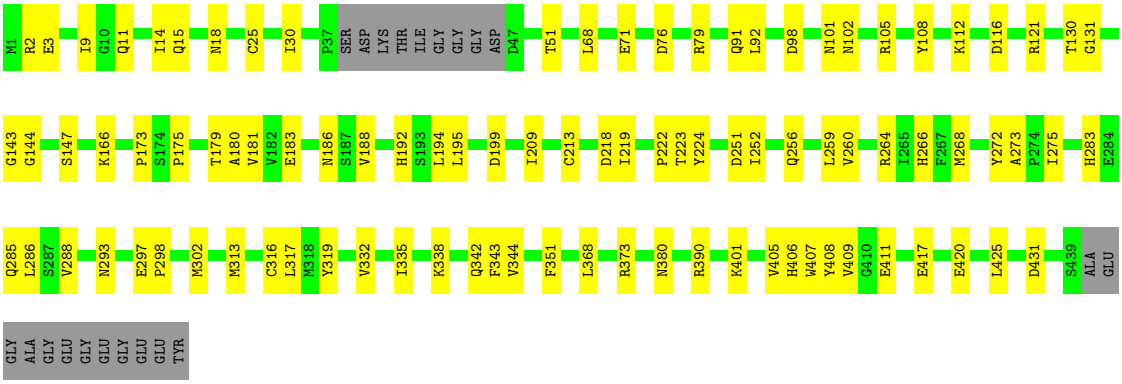
• Molecule 24: Tubulin alpha

Chain SB:



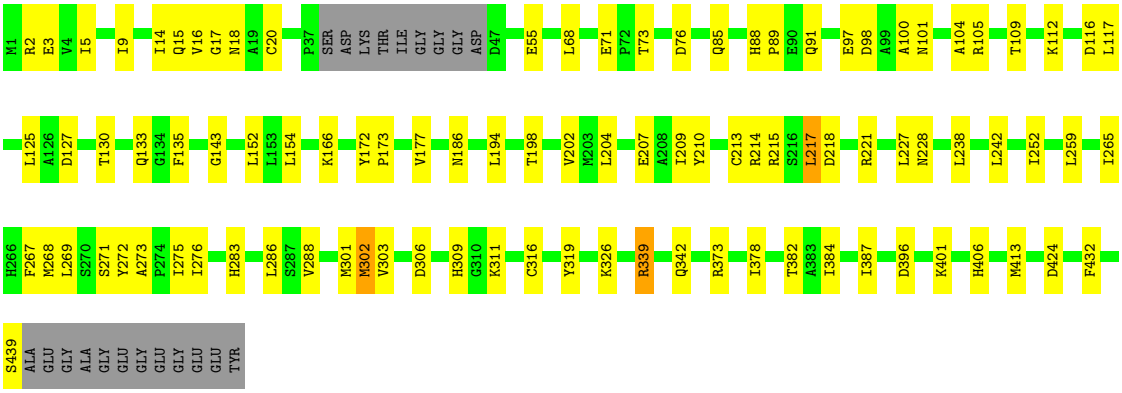
• Molecule 24: Tubulin alpha

Chain SD:



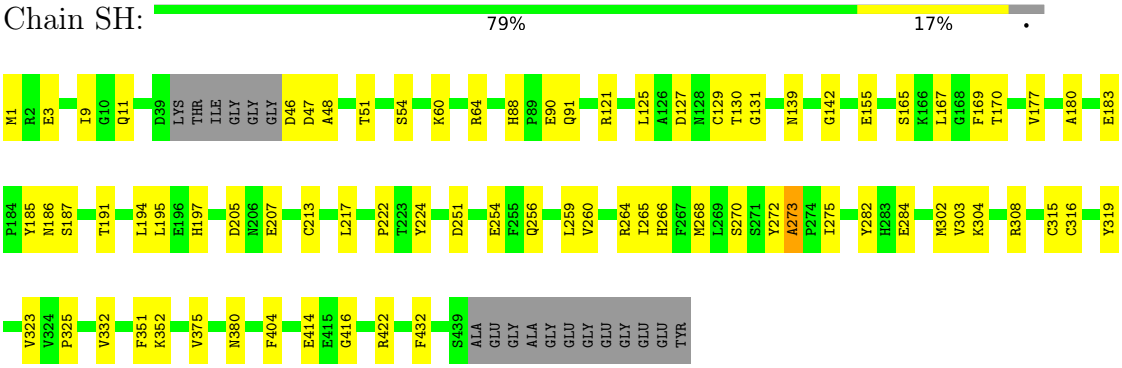
• Molecule 24: Tubulin alpha

Chain SF:



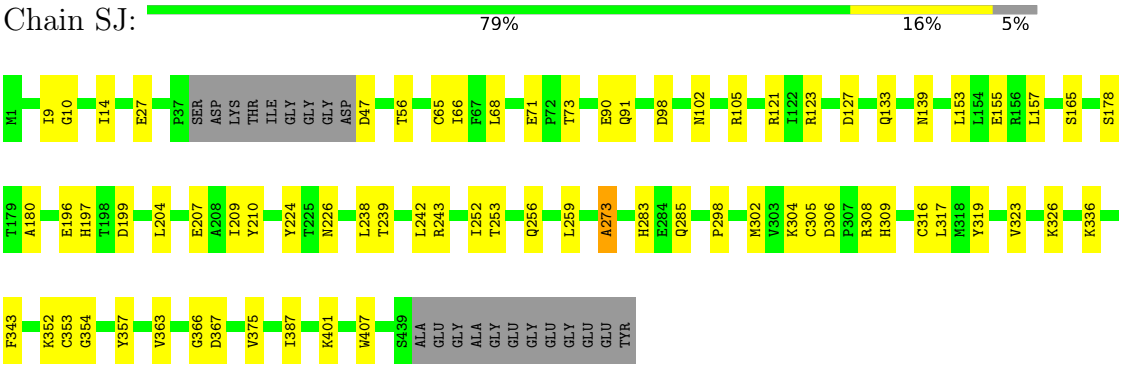
• Molecule 24: Tubulin alpha

Chain SH:



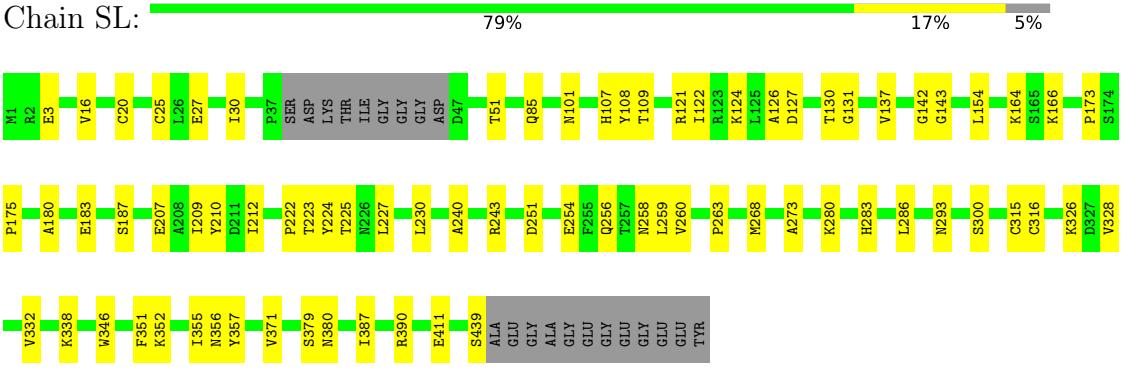
• Molecule 24: Tubulin alpha

Chain SJ:



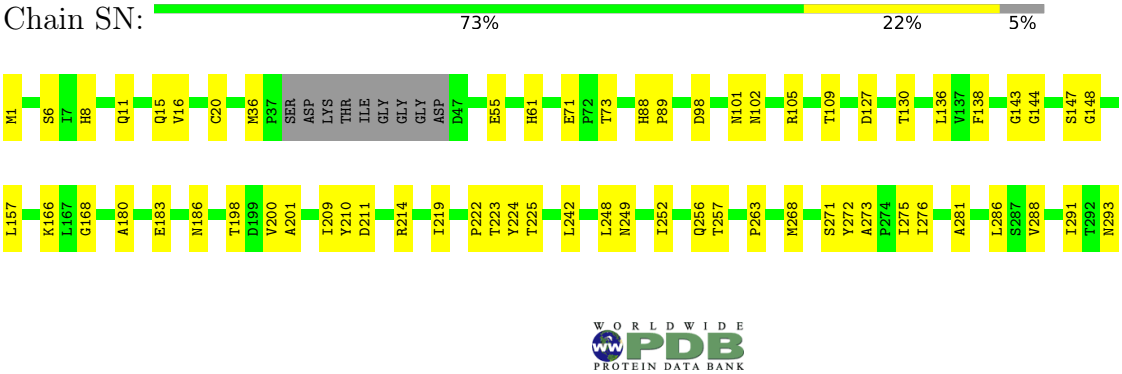
• Molecule 24: Tubulin alpha

Chain SL:



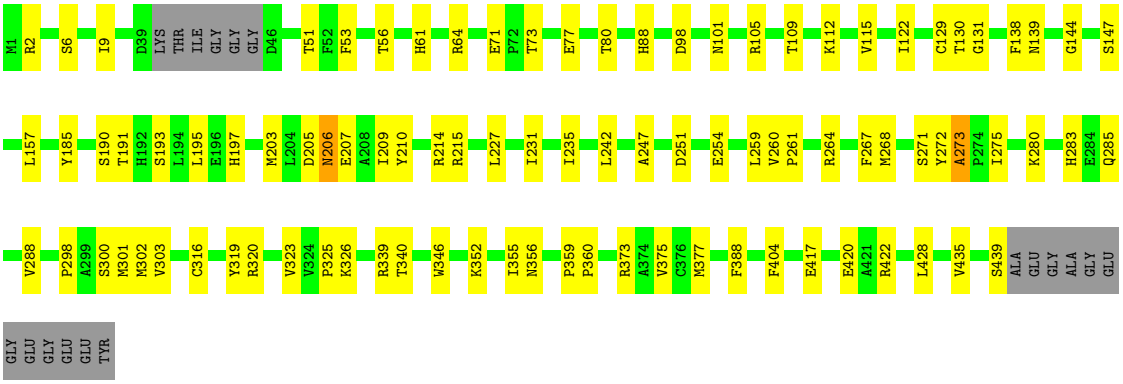
• Molecule 24: Tubulin alpha

Chain SN:



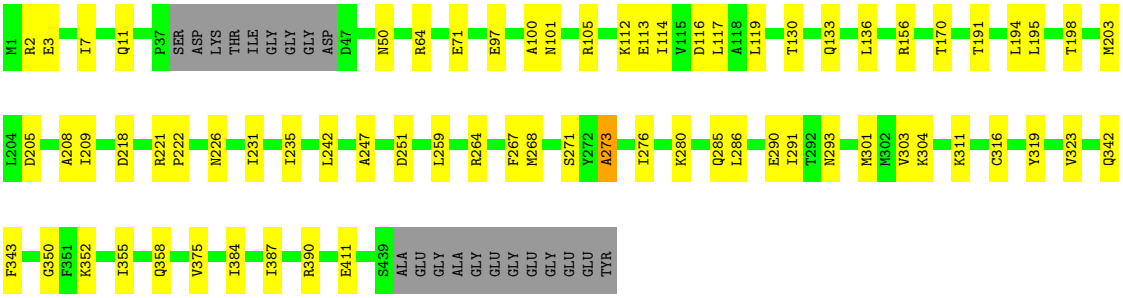
• Molecule 24: Tubulin alpha

Chain SP:



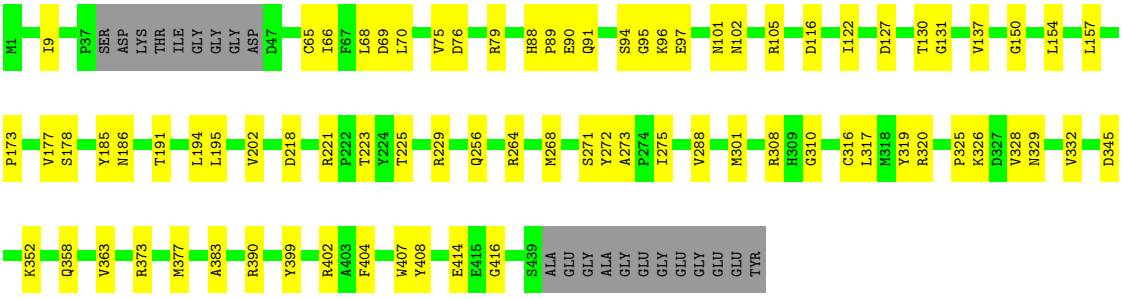
• Molecule 24: Tubulin alpha

Chain TB:



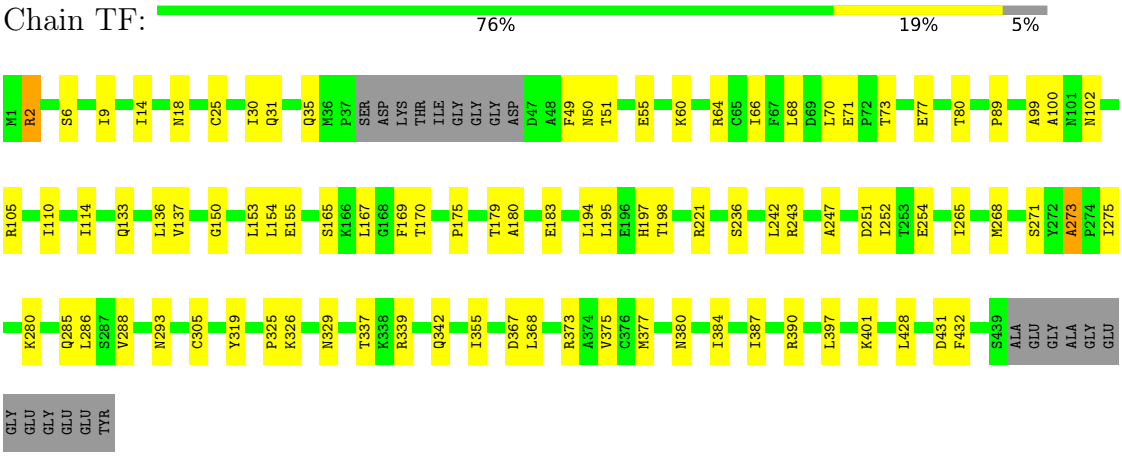
• Molecule 24: Tubulin alpha

Chain TD:



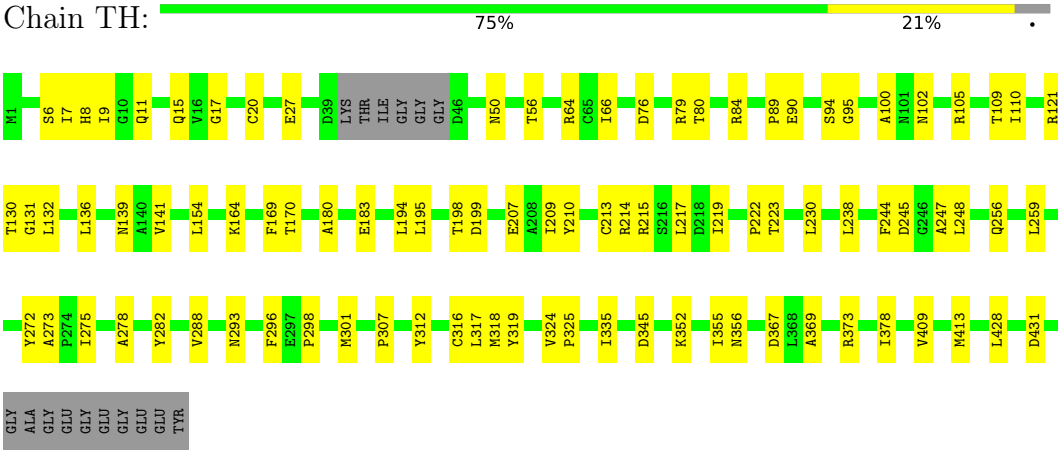
• Molecule 24: Tubulin alpha

Chain TF:



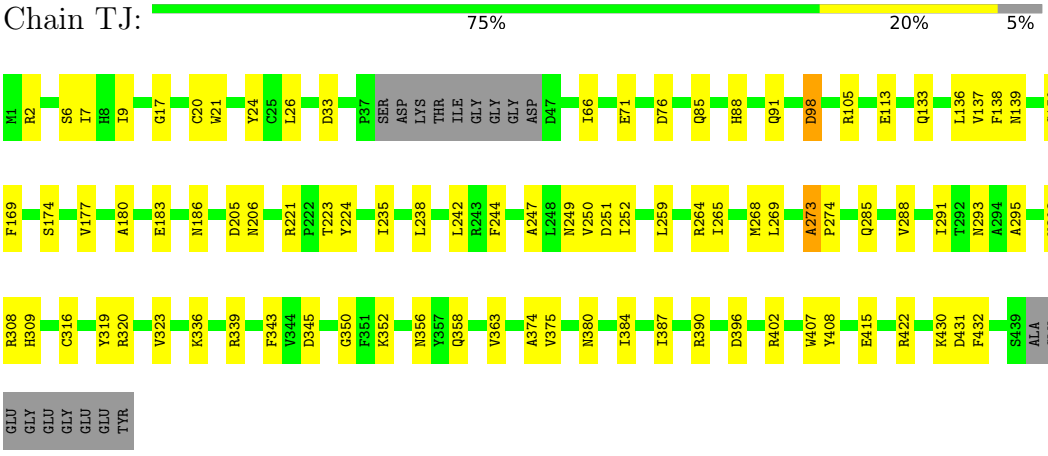
• Molecule 24: Tubulin alpha

Chain TH:



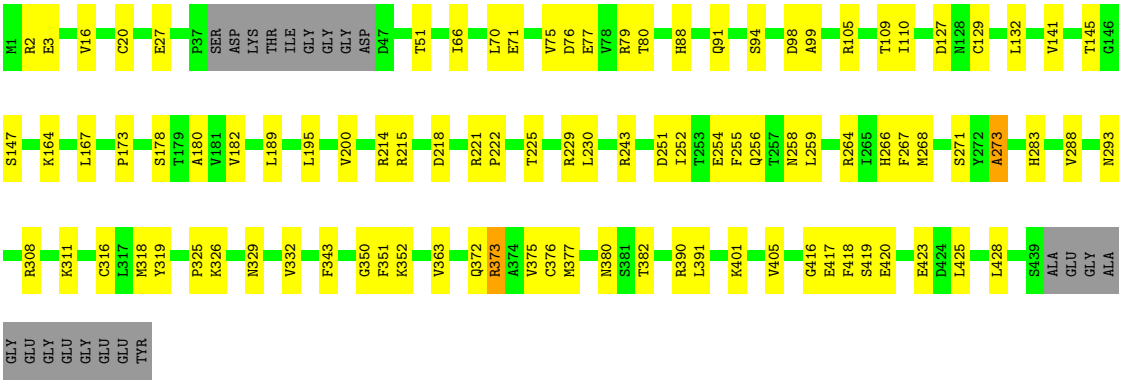
• Molecule 24: Tubulin alpha

Chain TJ:



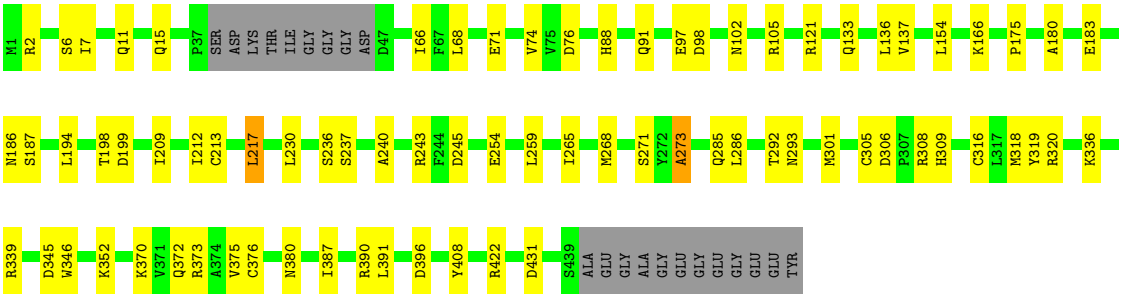
• Molecule 24: Tubulin alpha

Chain TL:



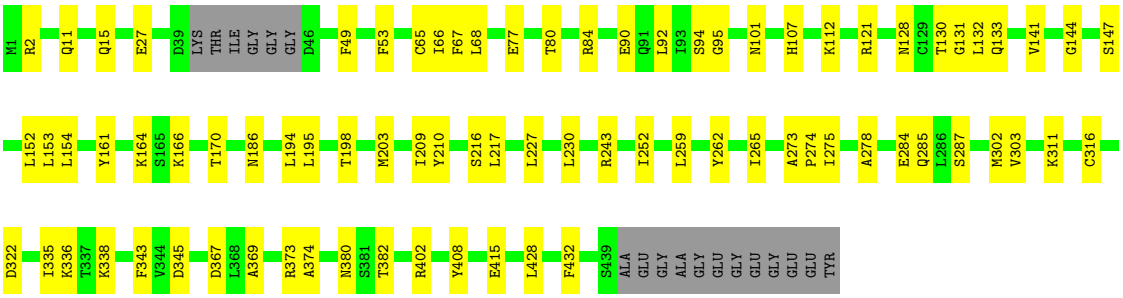
• Molecule 24: Tubulin alpha

Chain TN:



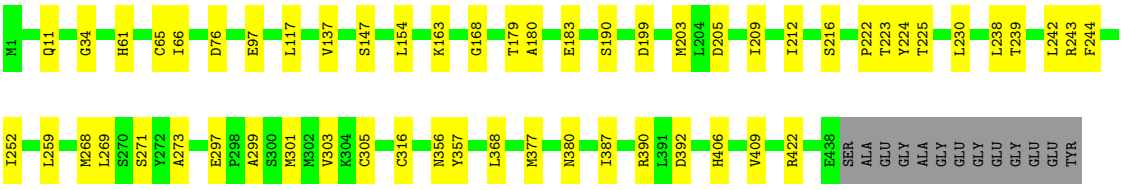
• Molecule 24: Tubulin alpha

Chain TP:



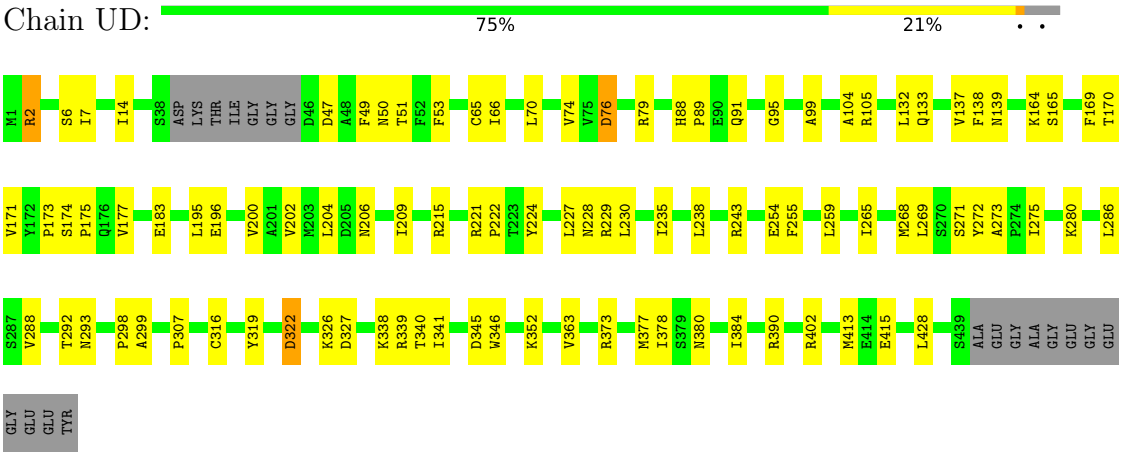
• Molecule 24: Tubulin alpha

Chain UB:



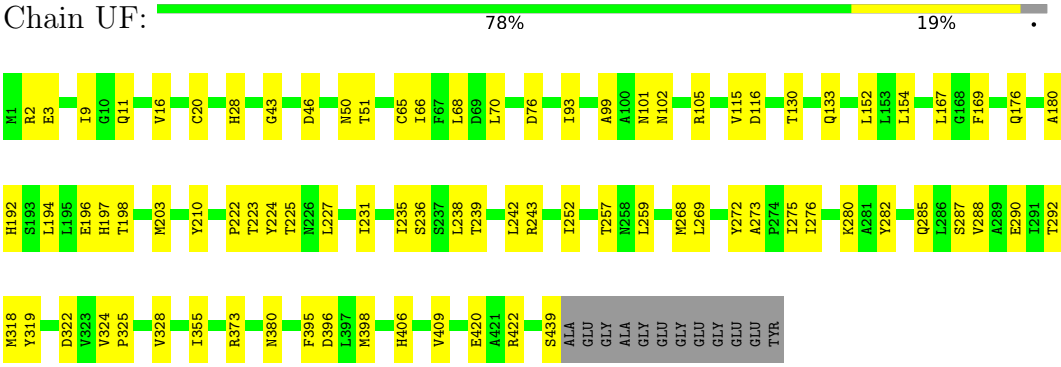
• Molecule 24: Tubulin alpha

Chain UD:



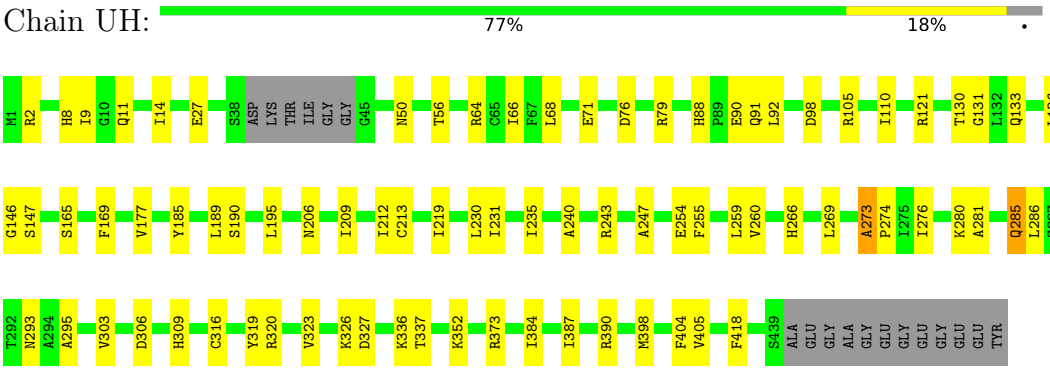
• Molecule 24: Tubulin alpha

Chain UF:



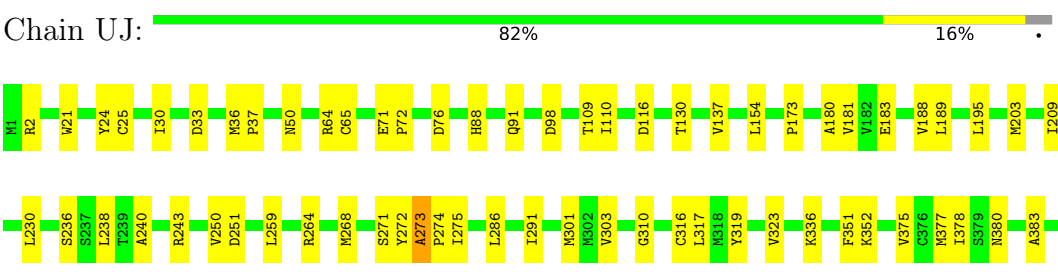
• Molecule 24: Tubulin alpha

Chain UH:



• Molecule 24: Tubulin alpha

Chain UJ:

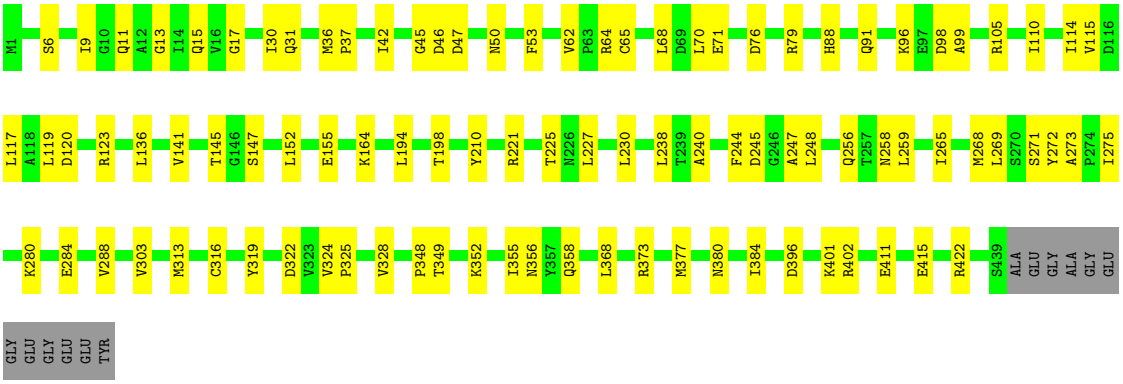


• Molecule 24: Tubulin alpha

Chain UL:

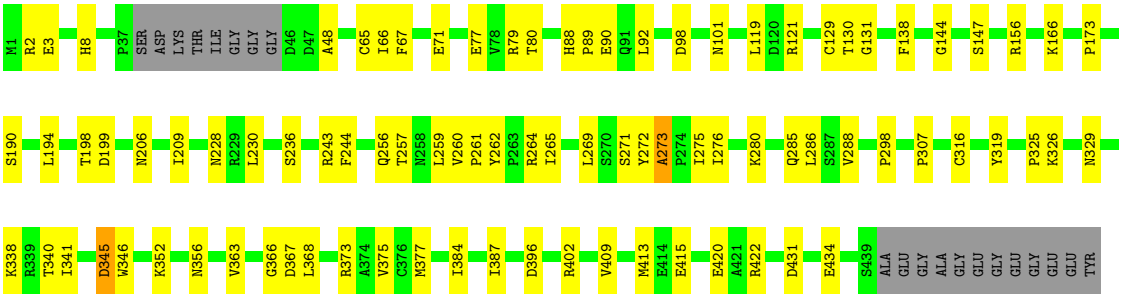
• Molecule 24: Tubulin alpha

Chain UN:



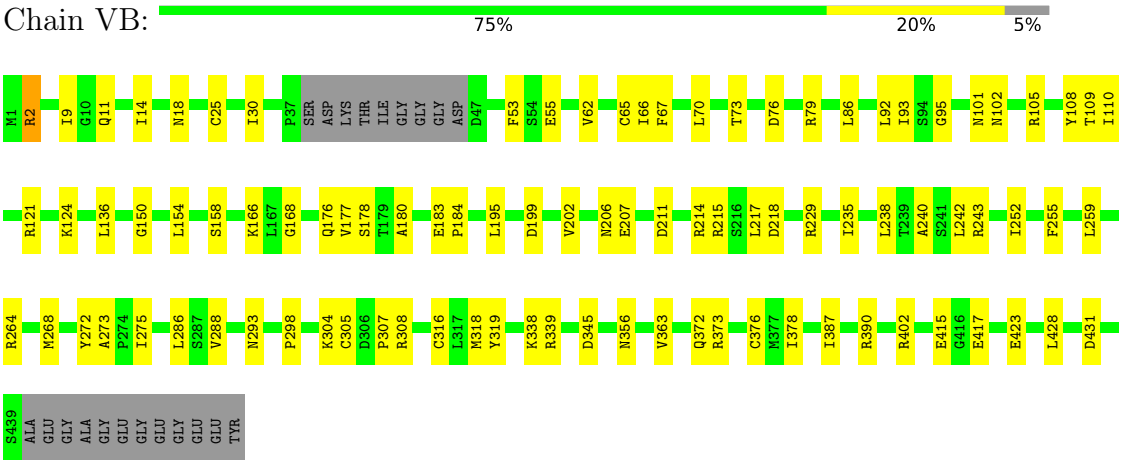
• Molecule 24: Tubulin alpha

Chain UP:



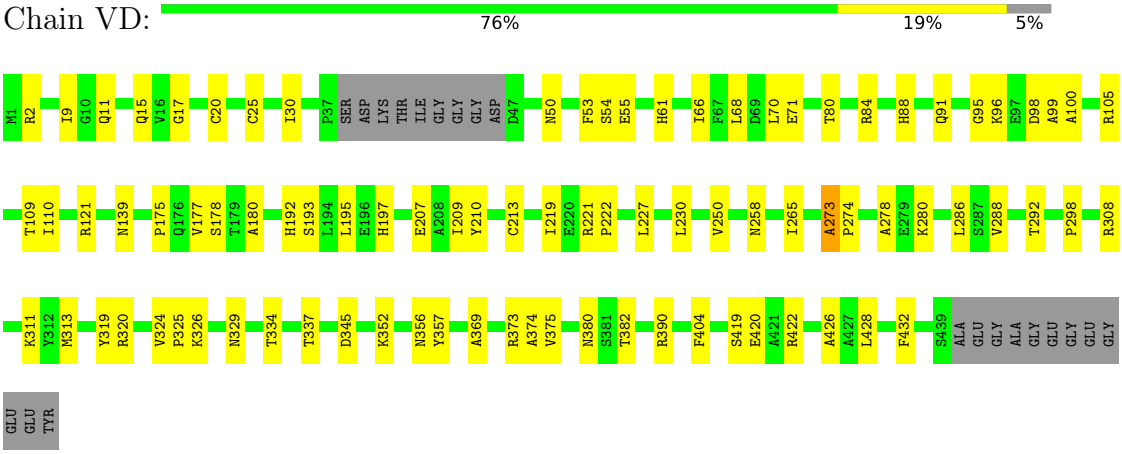
• Molecule 24: Tubulin alpha

Chain VB:



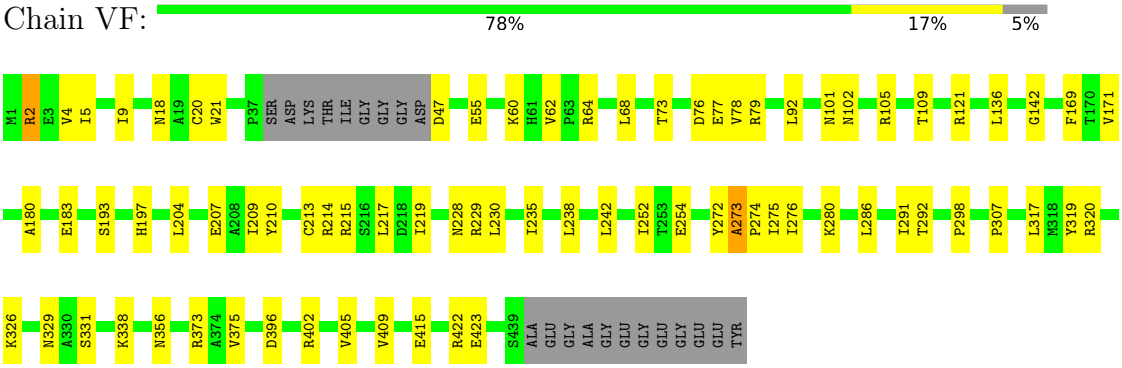
• Molecule 24: Tubulin alpha

Chain VD:



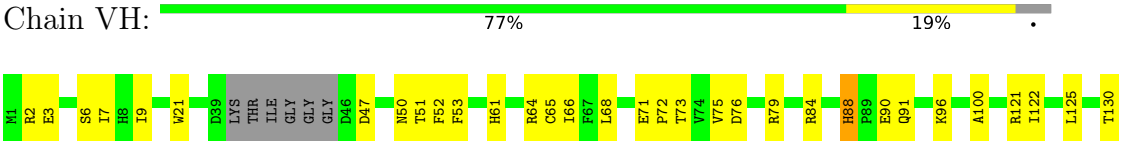
• Molecule 24: Tubulin alpha

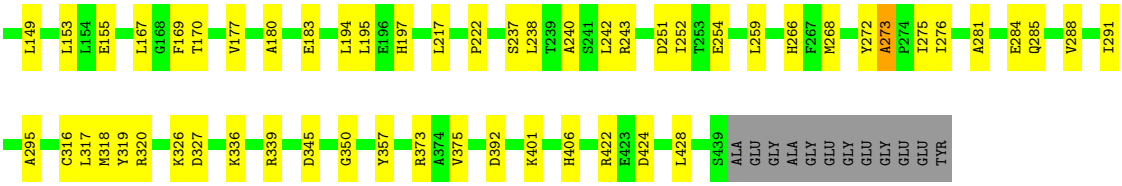
Chain VF:



• Molecule 24: Tubulin alpha

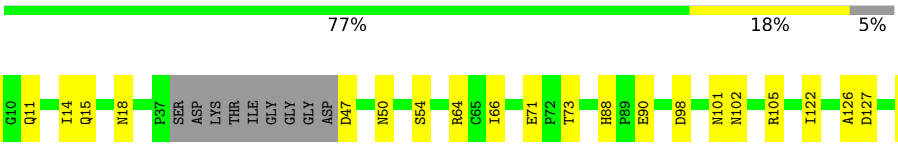
Chain VH:

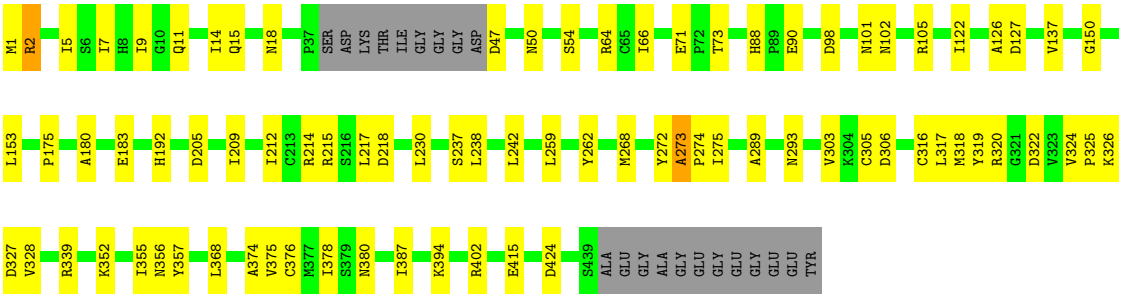




• Molecule 24: Tubulin alpha

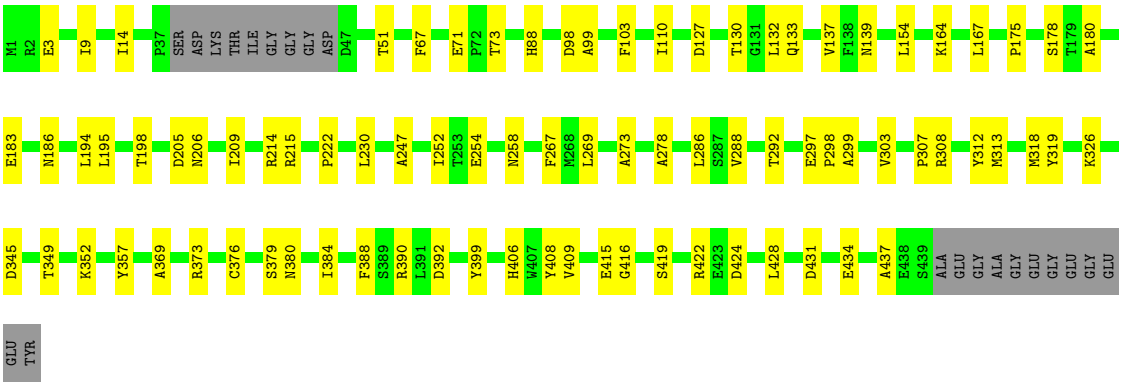
Chain VJ:





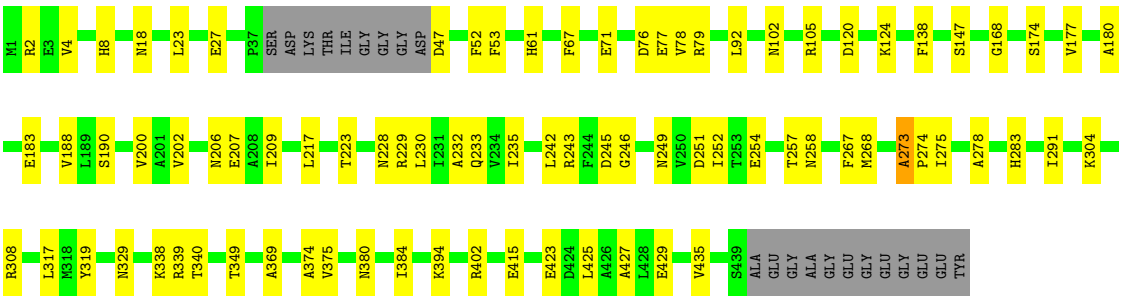
• Molecule 24: Tubulin alpha

Chain VL:



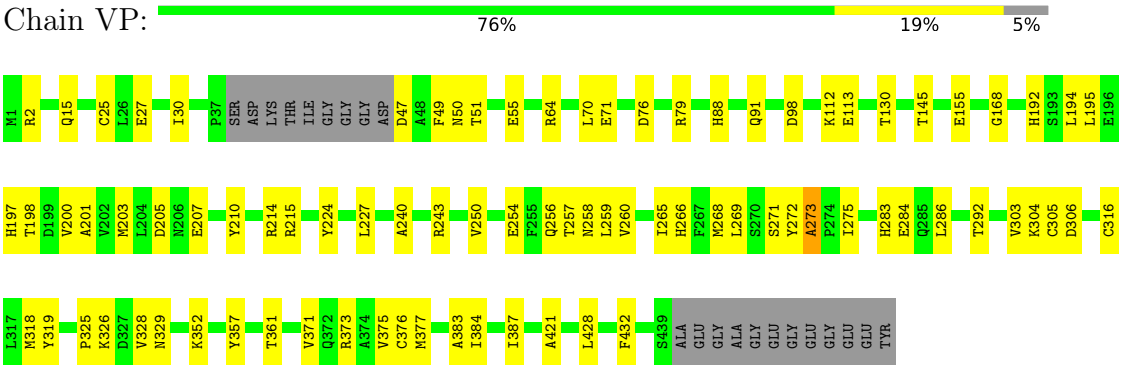
• Molecule 24: Tubulin alpha

Chain VN:



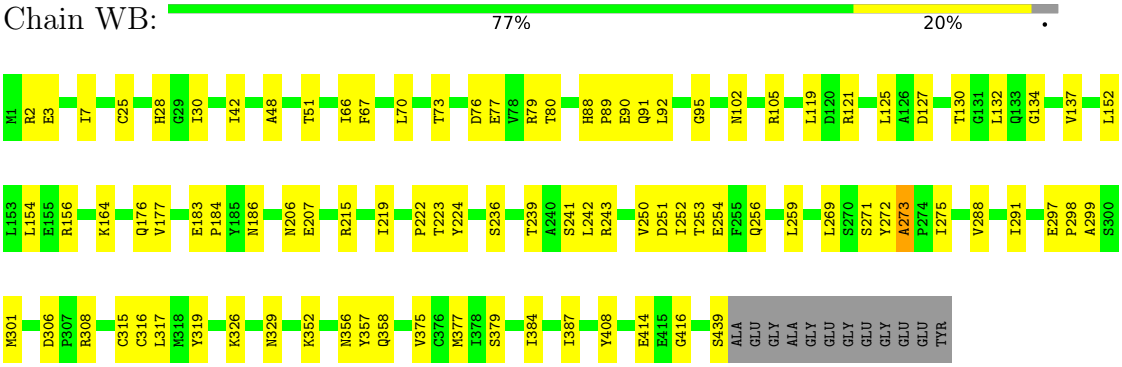
• Molecule 24: Tubulin alpha

Chain VP:



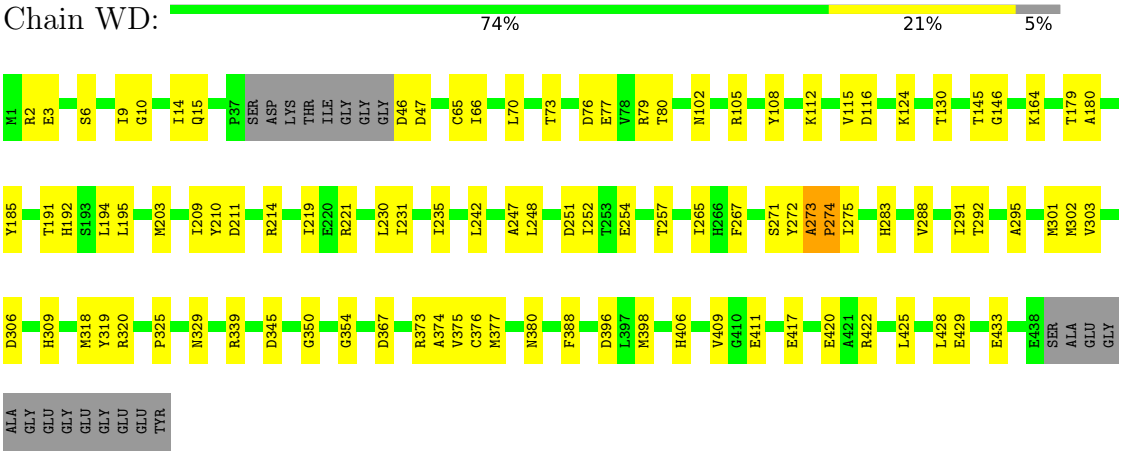
• Molecule 24: Tubulin alpha

Chain WB:



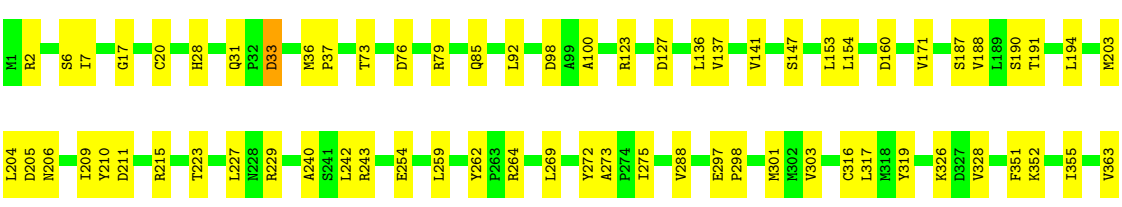
• Molecule 24: Tubulin alpha

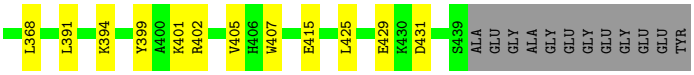
Chain WD:



• Molecule 24: Tubulin alpha

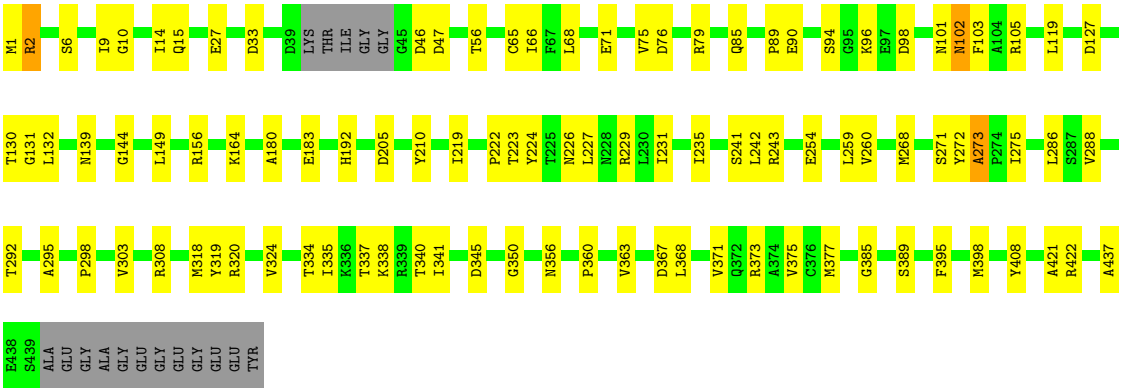
Chain WF:





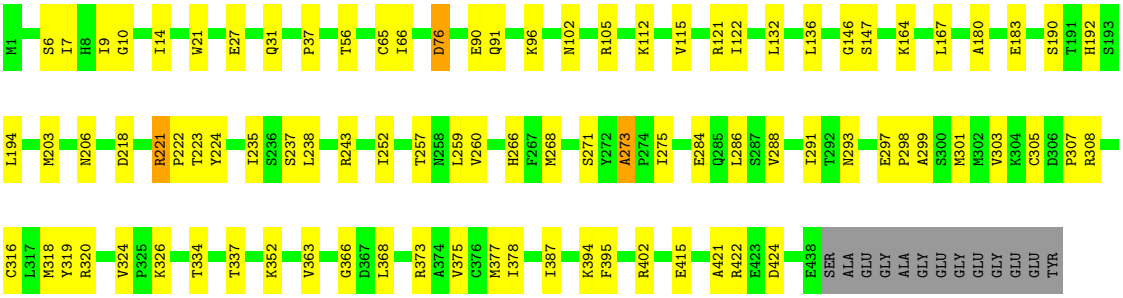
• Molecule 24: Tubulin alpha

Chain WH:



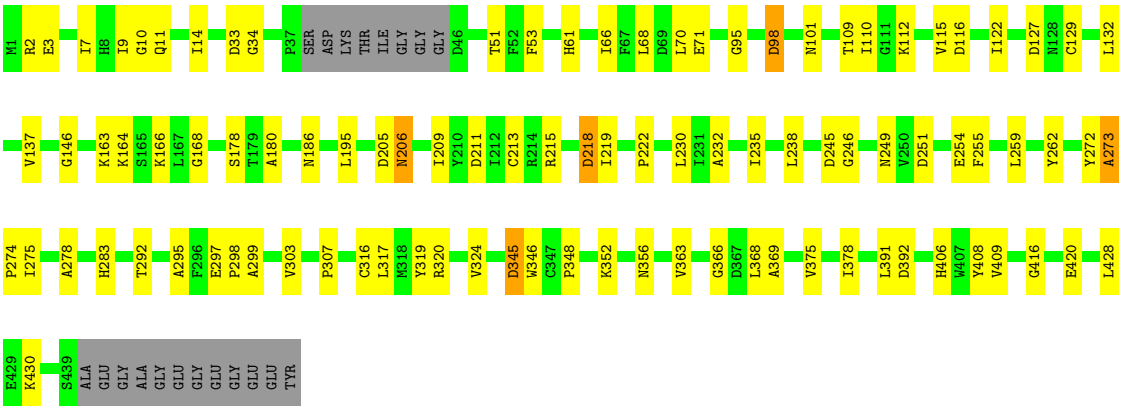
• Molecule 24: Tubulin alpha

Chain WJ:



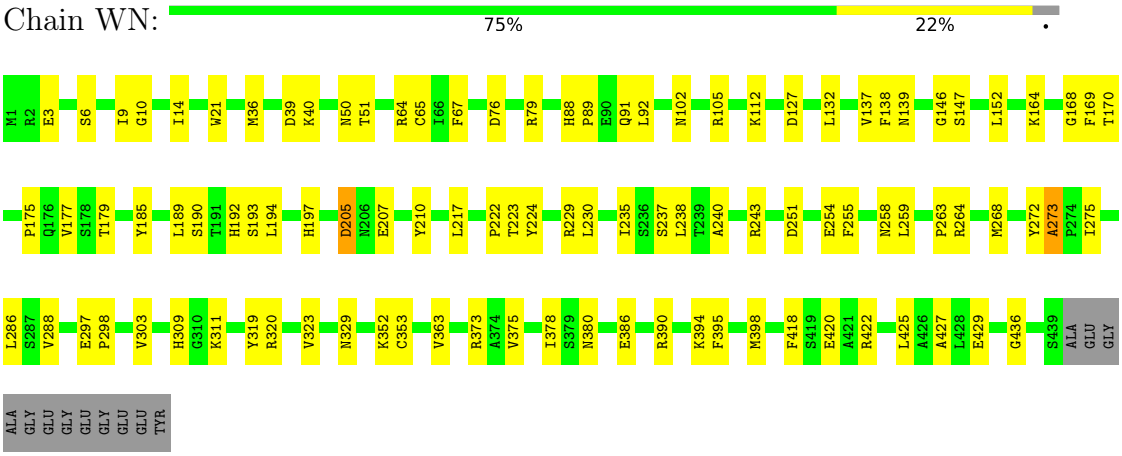
• Molecule 24: Tubulin alpha

Chain WL:



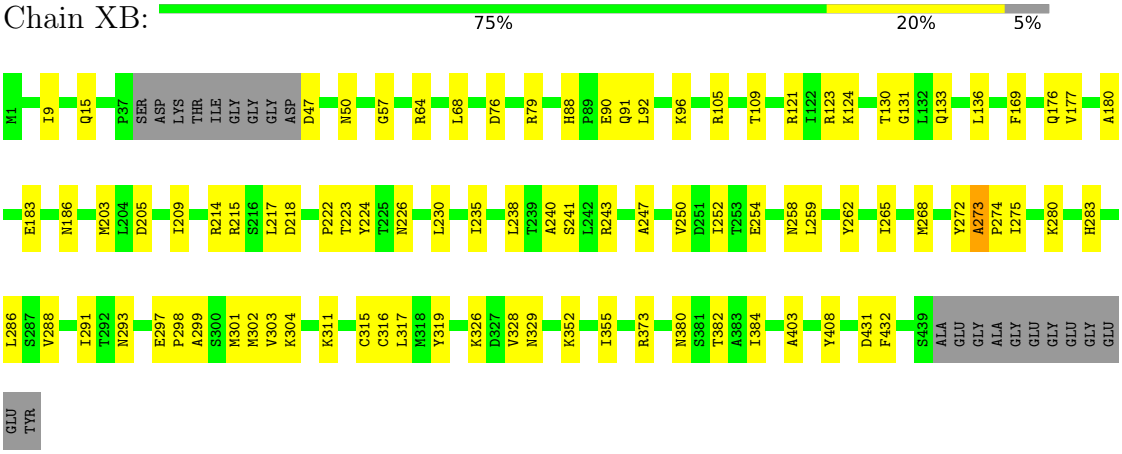
• Molecule 24: Tubulin alpha

Chain WN:



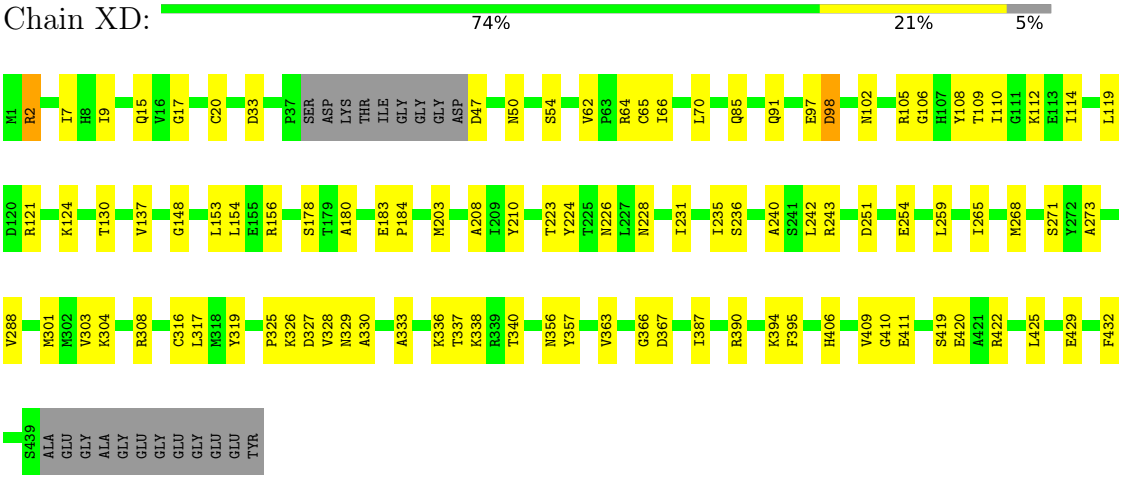
• Molecule 24: Tubulin alpha

Chain XB:



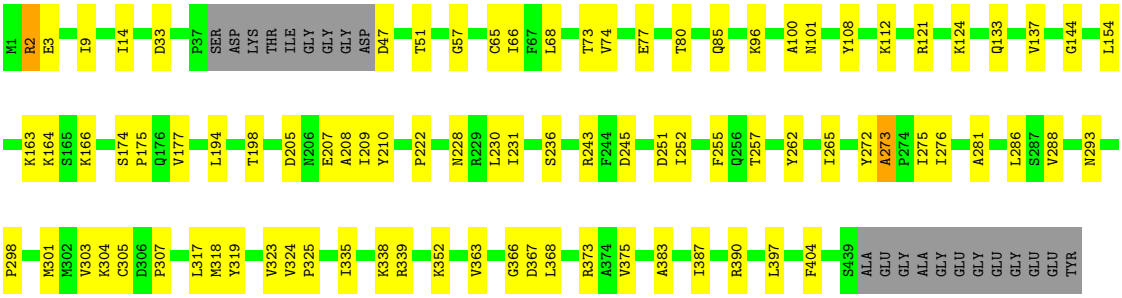
• Molecule 24: Tubulin alpha

Chain XD:



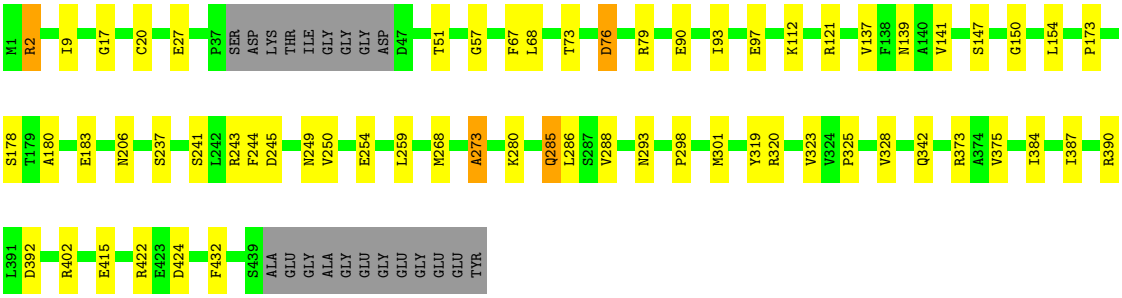
• Molecule 24: Tubulin alpha

Chain XF:



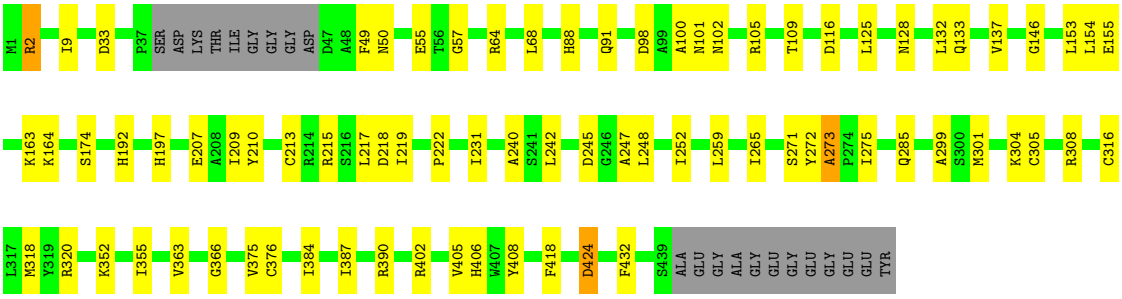
• Molecule 24: Tubulin alpha

Chain XH:



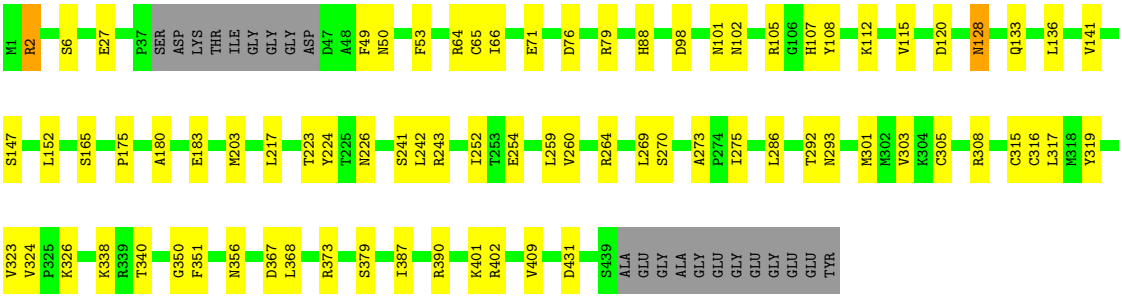
• Molecule 24: Tubulin alpha

Chain XJ:



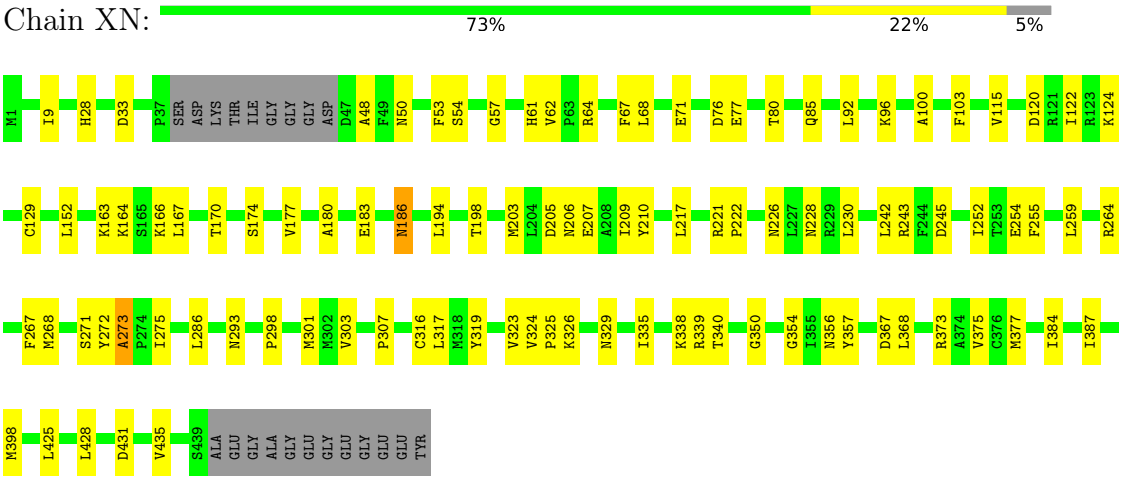
• Molecule 24: Tubulin alpha

Chain XL:



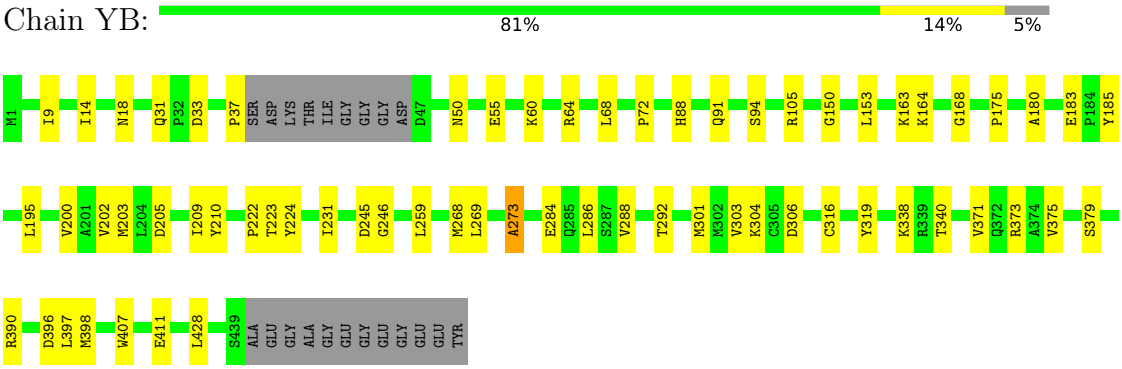
• Molecule 24: Tubulin alpha

Chain XN:



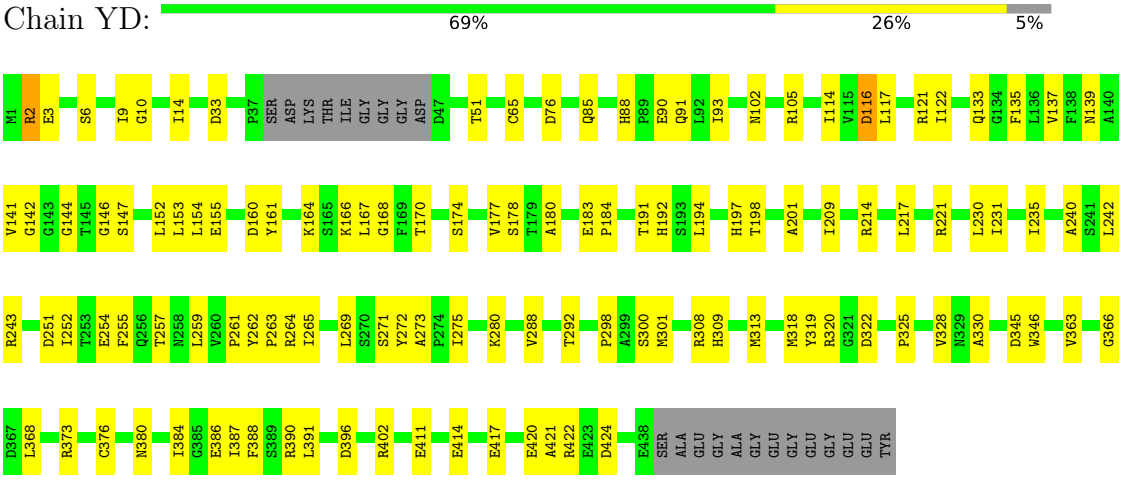
• Molecule 24: Tubulin alpha

Chain YB:



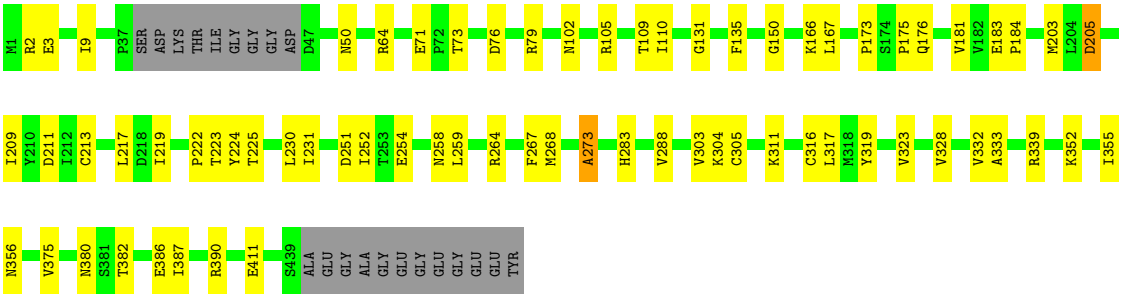
• Molecule 24: Tubulin alpha

Chain YD:



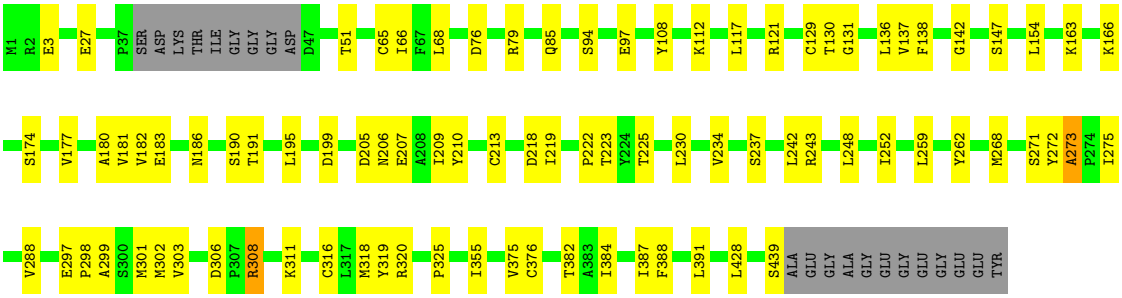
• Molecule 24: Tubulin alpha

Chain YF:



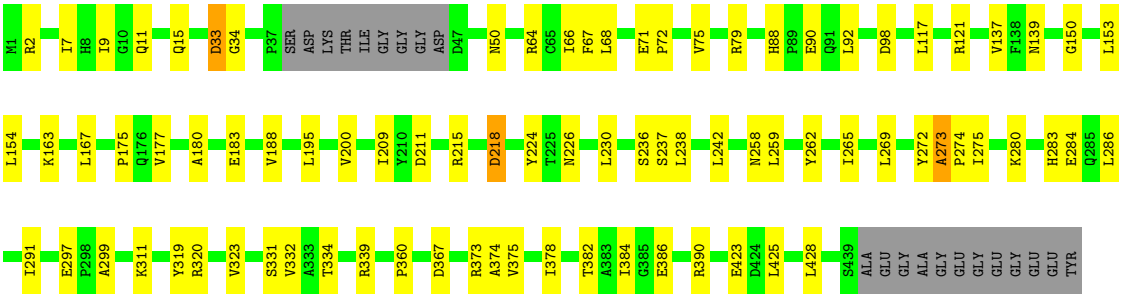
• Molecule 24: Tubulin alpha

Chain YH:



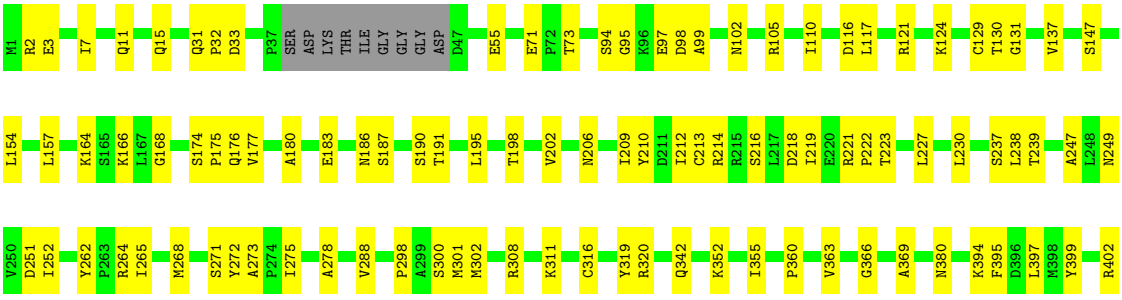
• Molecule 24: Tubulin alpha

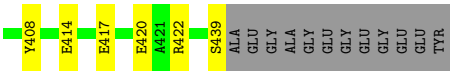
Chain YJ:



• Molecule 24: Tubulin alpha

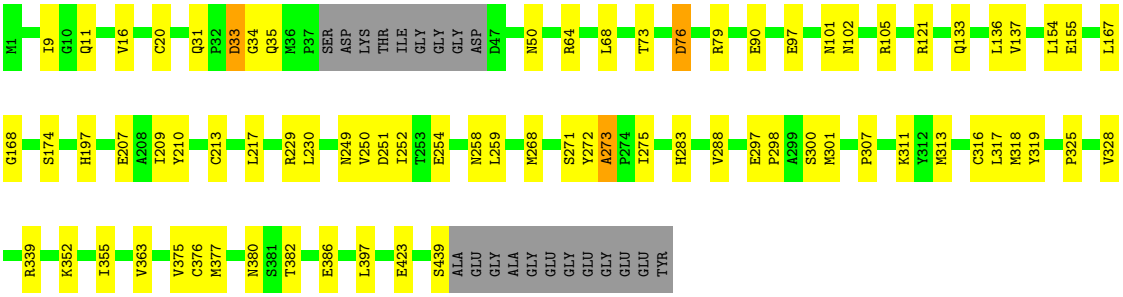
Chain YL:





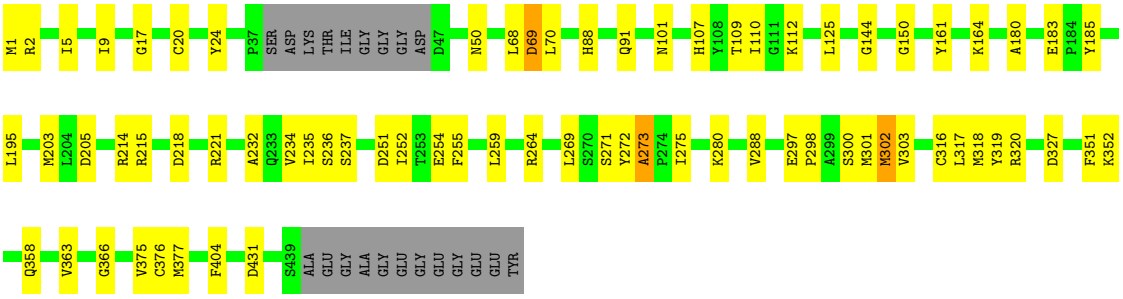
• Molecule 24: Tubulin alpha

Chain YN:



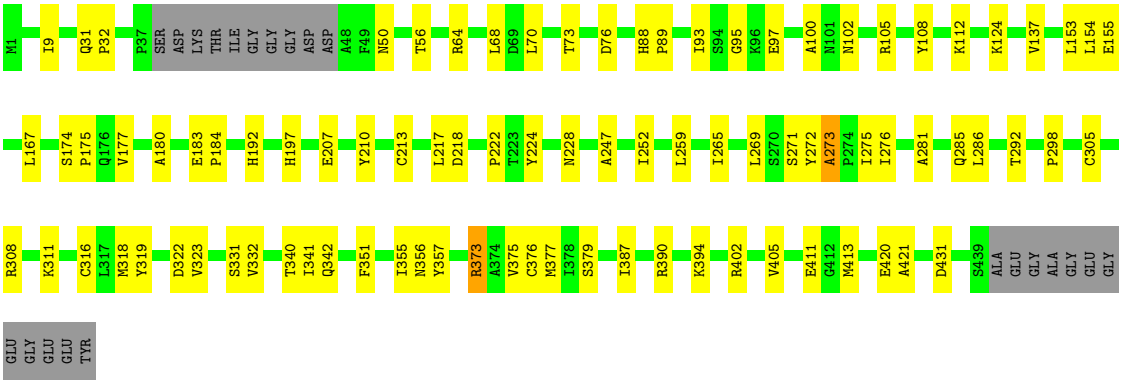
• Molecule 24: Tubulin alpha

Chain YP:



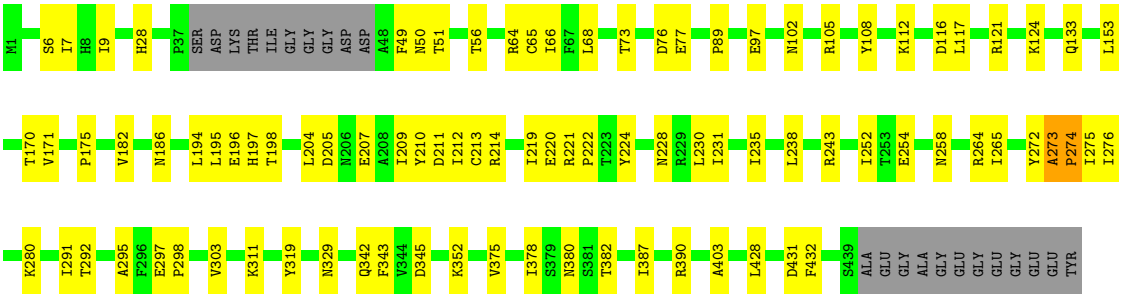
• Molecule 24: Tubulin alpha

Chain ZB:



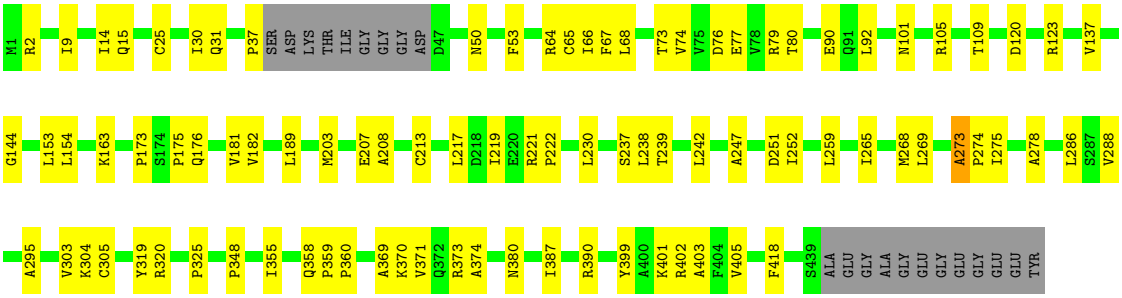
• Molecule 24: Tubulin alpha

Chain ZD:



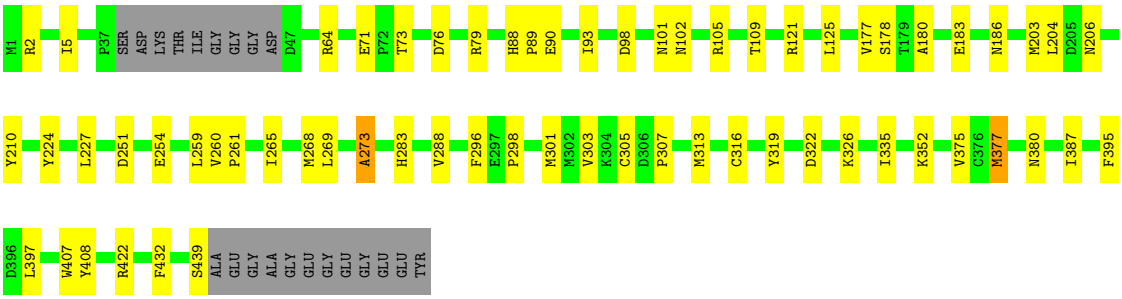
• Molecule 24: Tubulin alpha

Chain ZF:



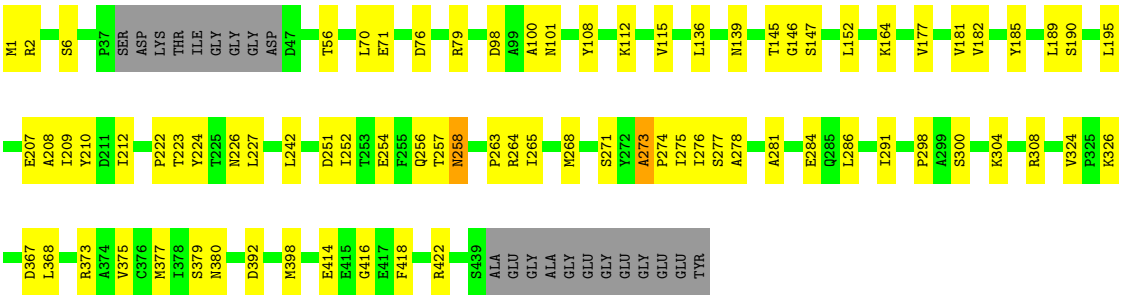
• Molecule 24: Tubulin alpha

Chain ZH:



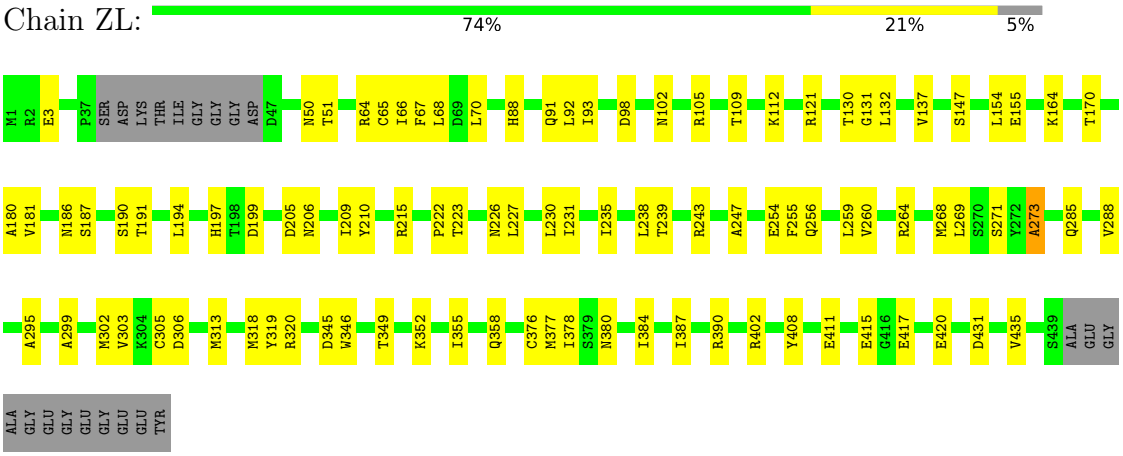
• Molecule 24: Tubulin alpha

Chain ZJ:



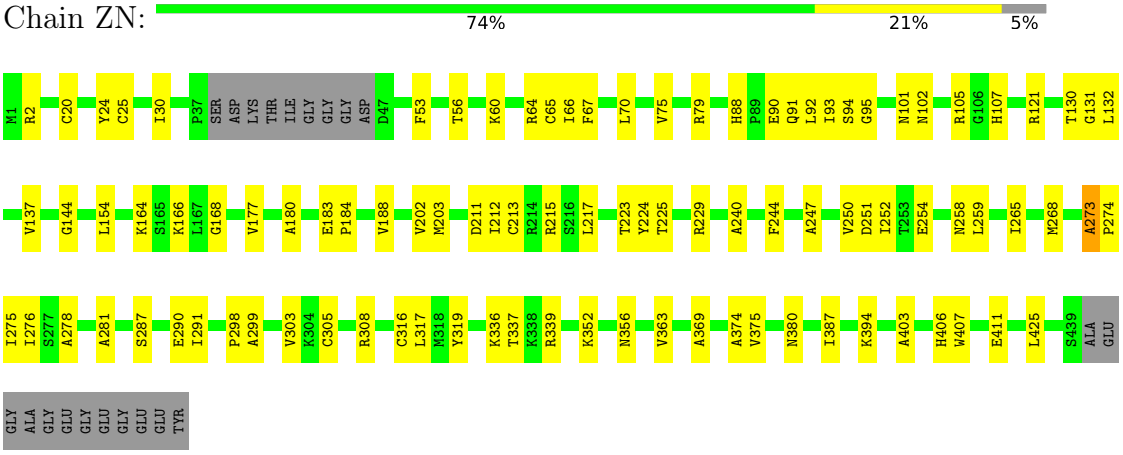
• Molecule 24: Tubulin alpha

Chain ZL:



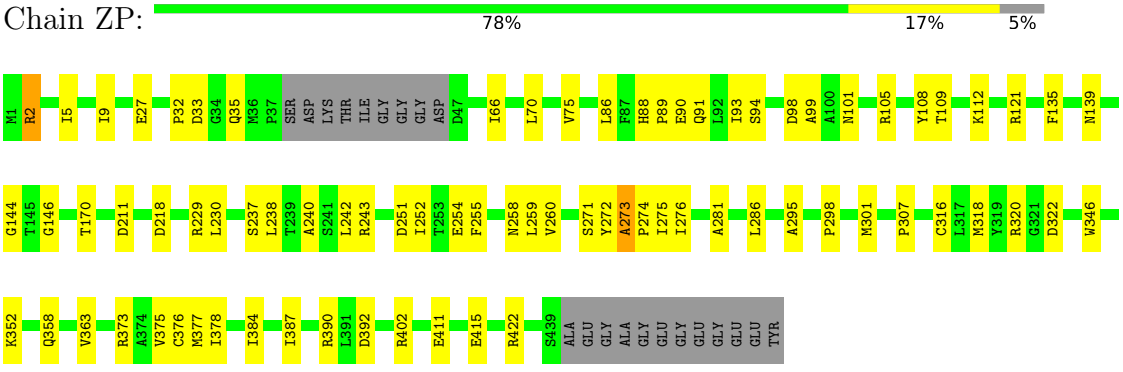
• Molecule 24: Tubulin alpha

Chain ZN:



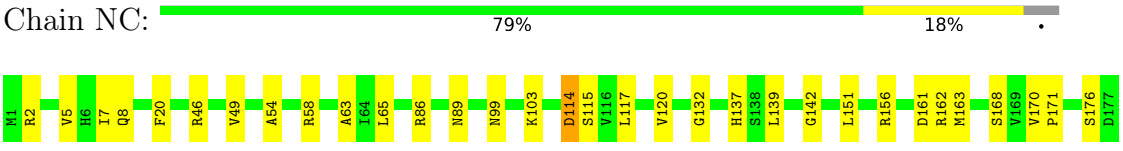
• Molecule 24: Tubulin alpha

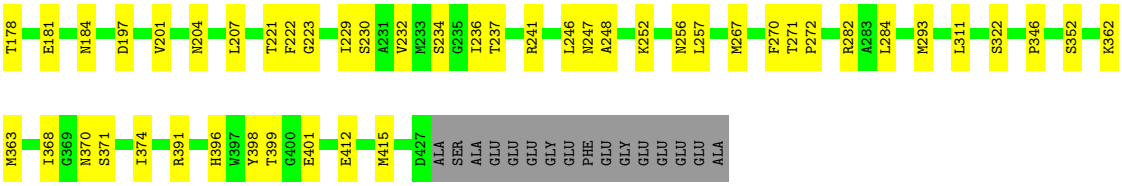
Chain ZP:



• Molecule 25: Tubulin beta

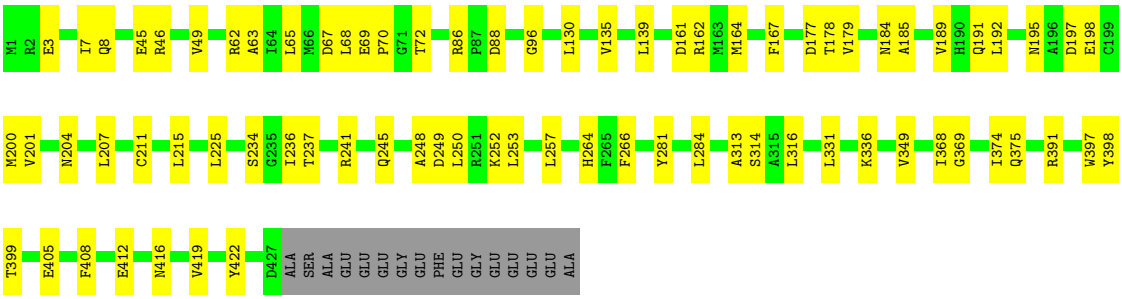
Chain NC:





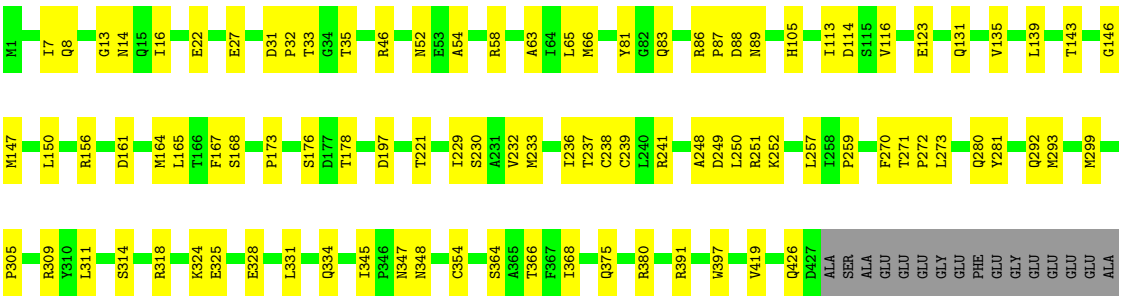
• Molecule 25: Tubulin beta

Chain NE:



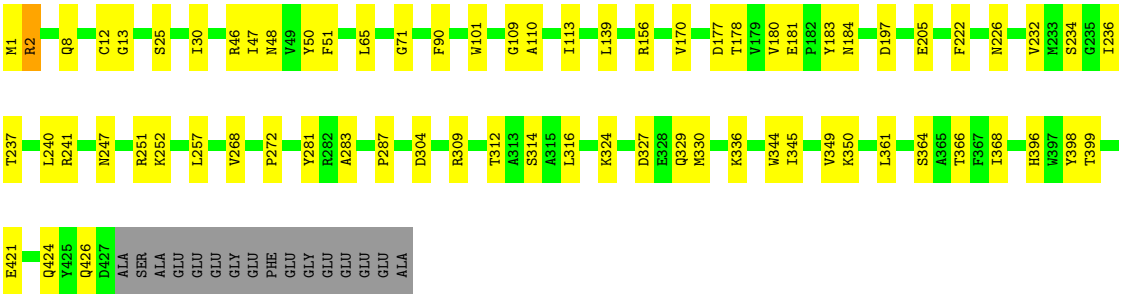
• Molecule 25: Tubulin beta

Chain NG:



• Molecule 25: Tubulin beta

Chain NI:

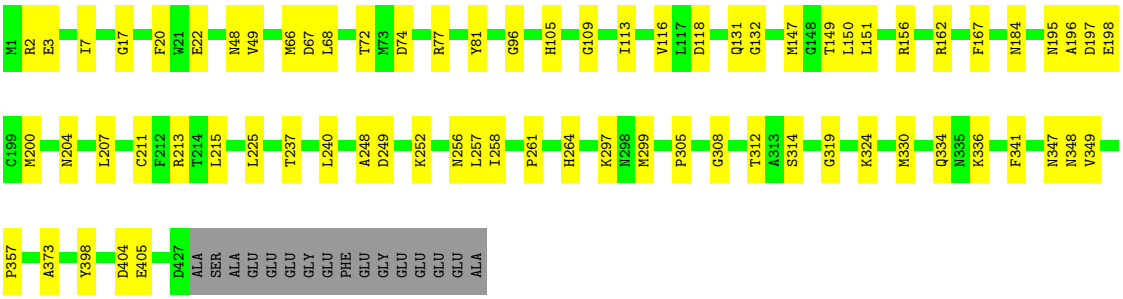


• Molecule 25: Tubulin beta

Chain NK:

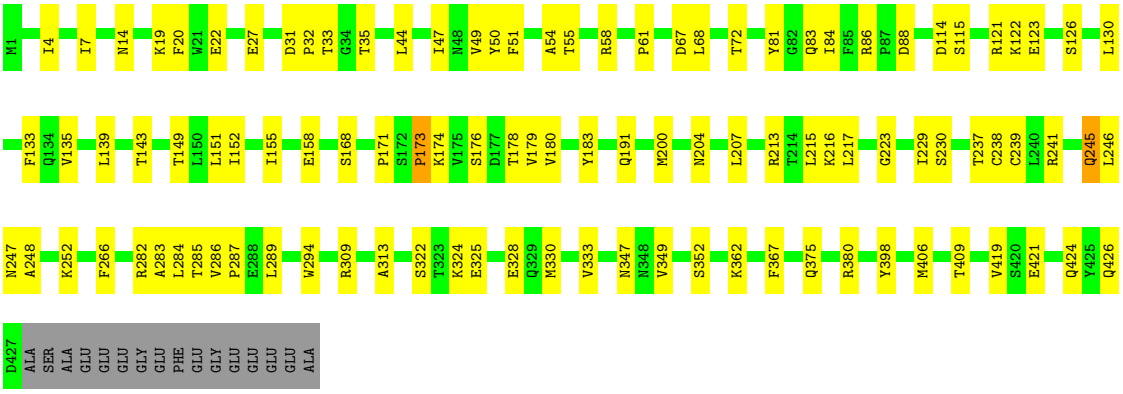
• Molecule 25: Tubulin beta

Chain NM:



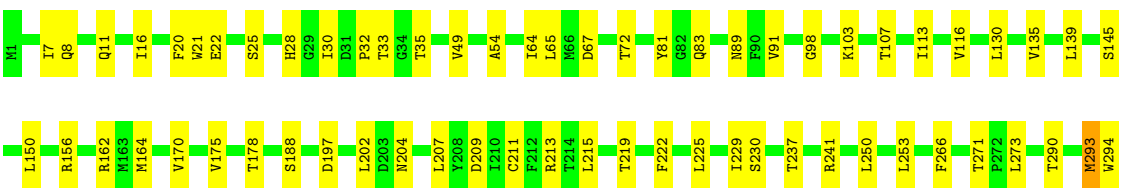
• Molecule 25: Tubulin beta

Chain NO:



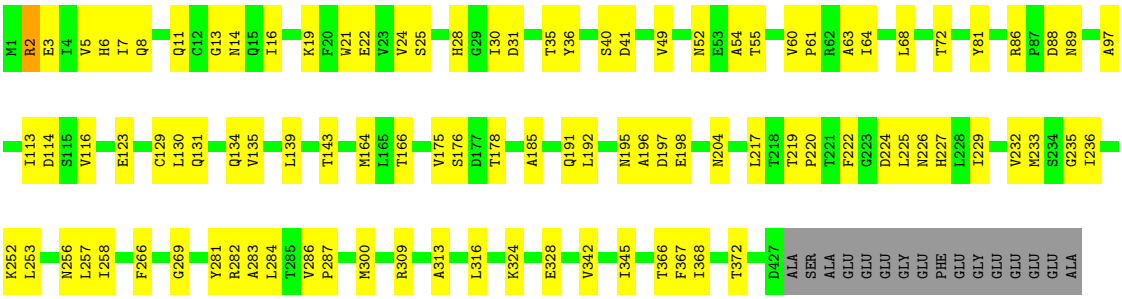
• Molecule 25: Tubulin beta

Chain OC:



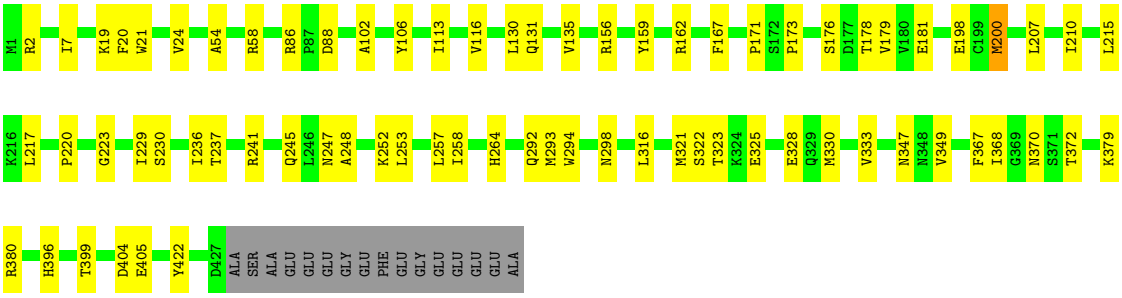
• Molecule 25: Tubulin beta

Chain OE:



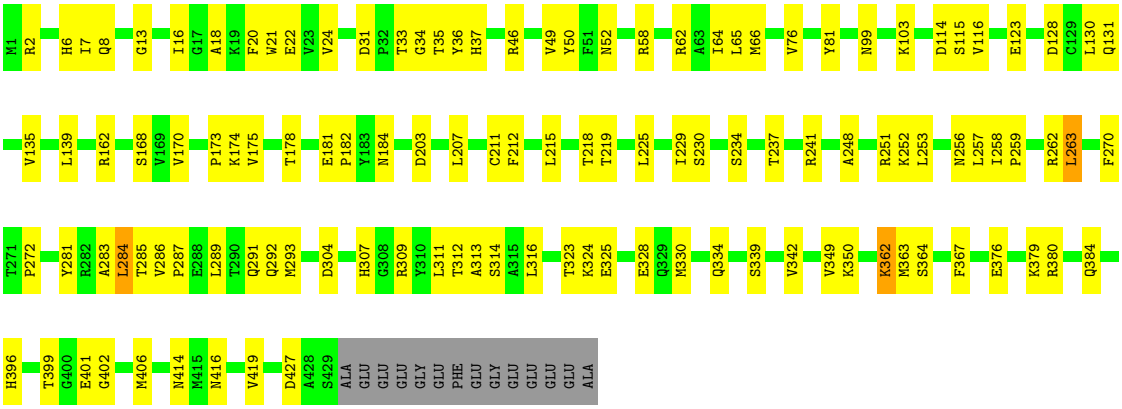
• Molecule 25: Tubulin beta

Chain OG:



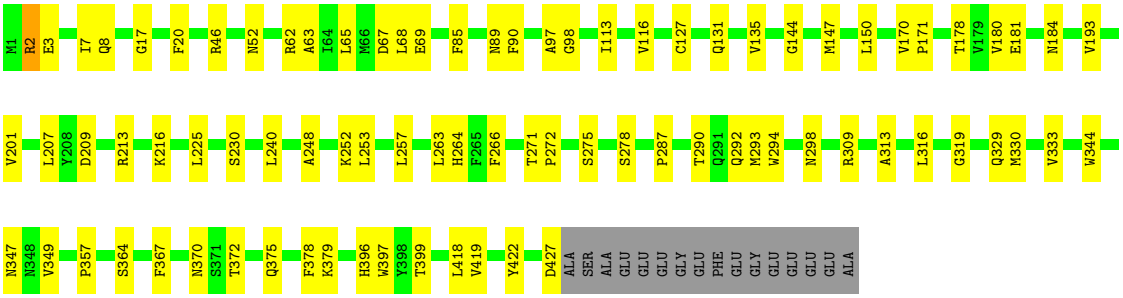
• Molecule 25: Tubulin beta

Chain OI:



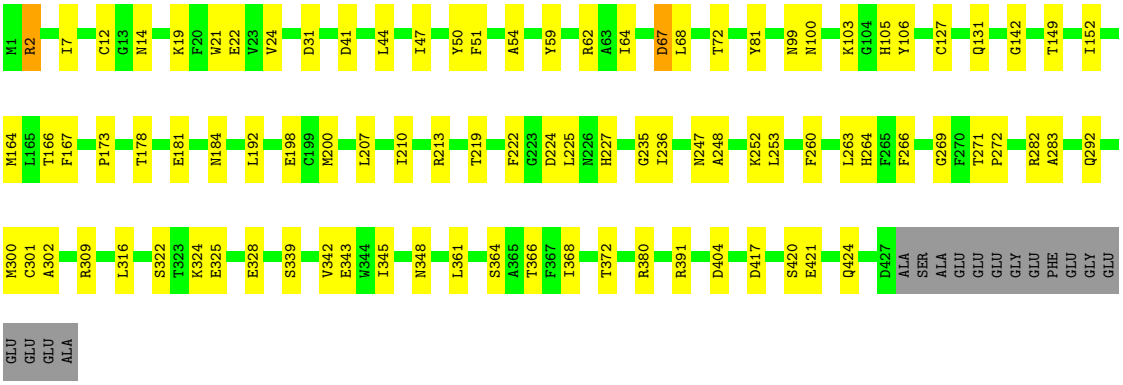
• Molecule 25: Tubulin beta

Chain OK:



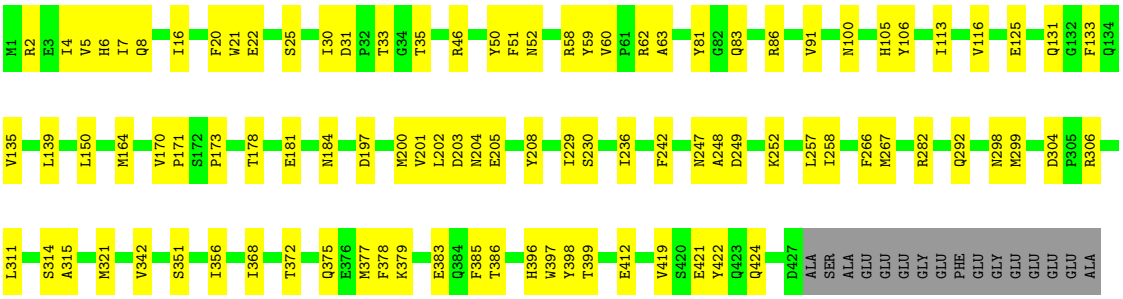
• Molecule 25: Tubulin beta

Chain OM:



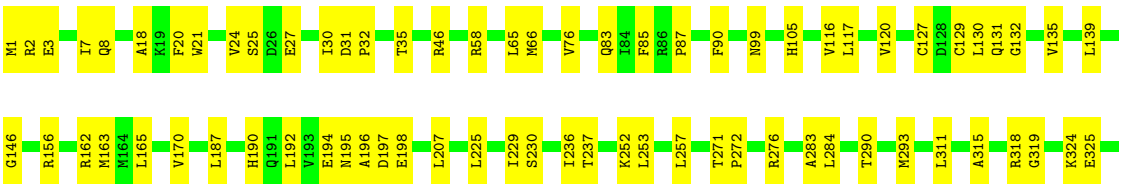
• Molecule 25: Tubulin beta

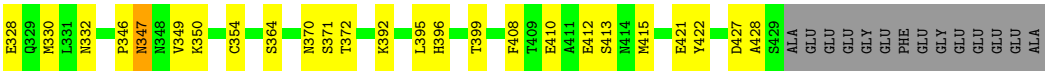
Chain OO:



• Molecule 25: Tubulin beta

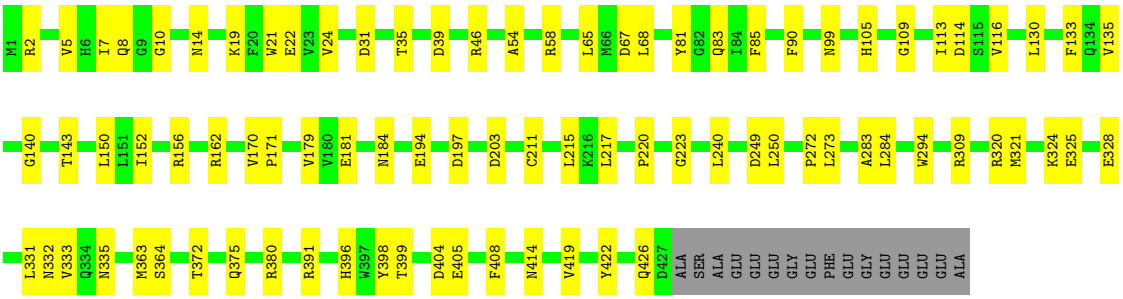
Chain OQ:





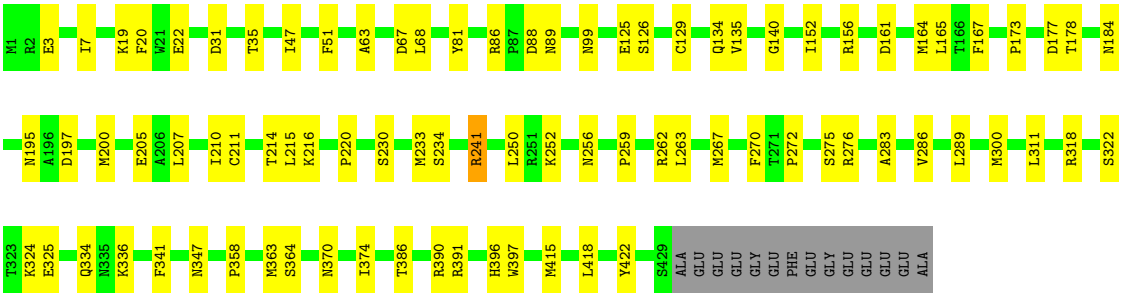
• Molecule 25: Tubulin beta

Chain PC:



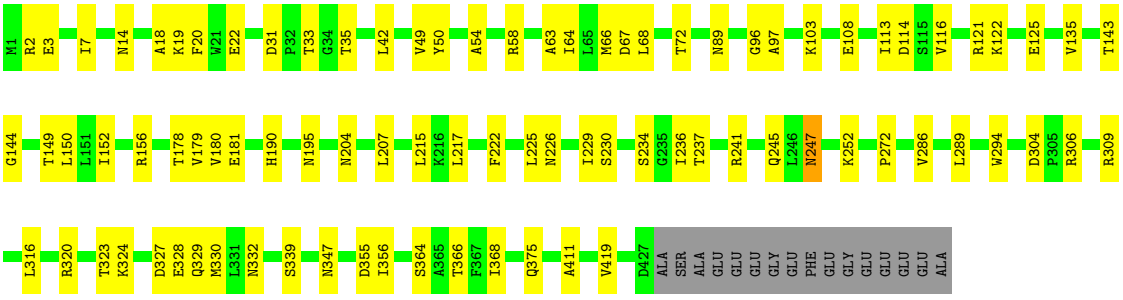
• Molecule 25: Tubulin beta

Chain PE:



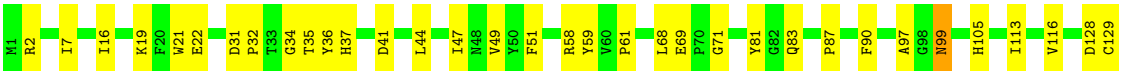
• Molecule 25: Tubulin beta

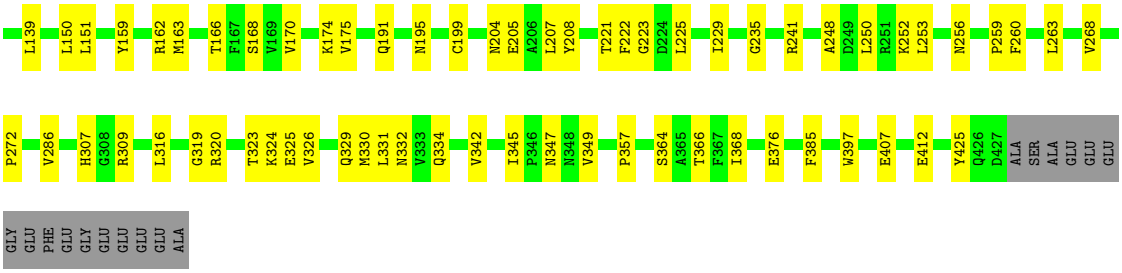
Chain PG:



• Molecule 25: Tubulin beta

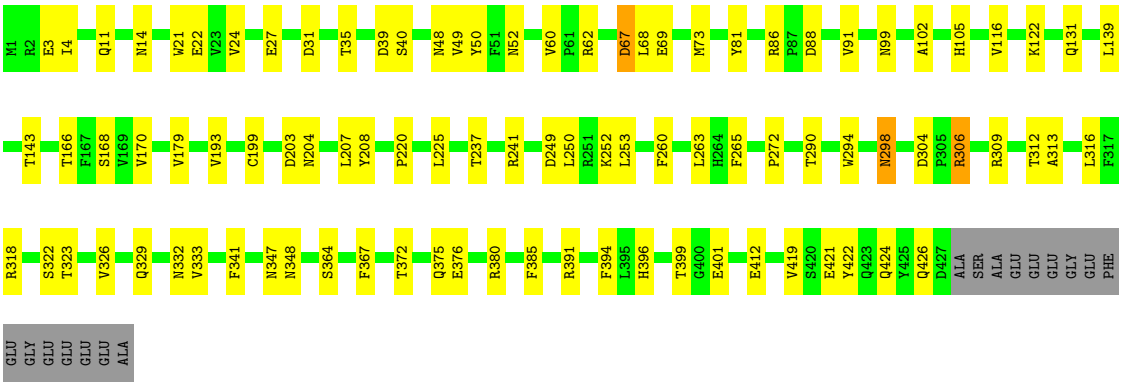
Chain PI:





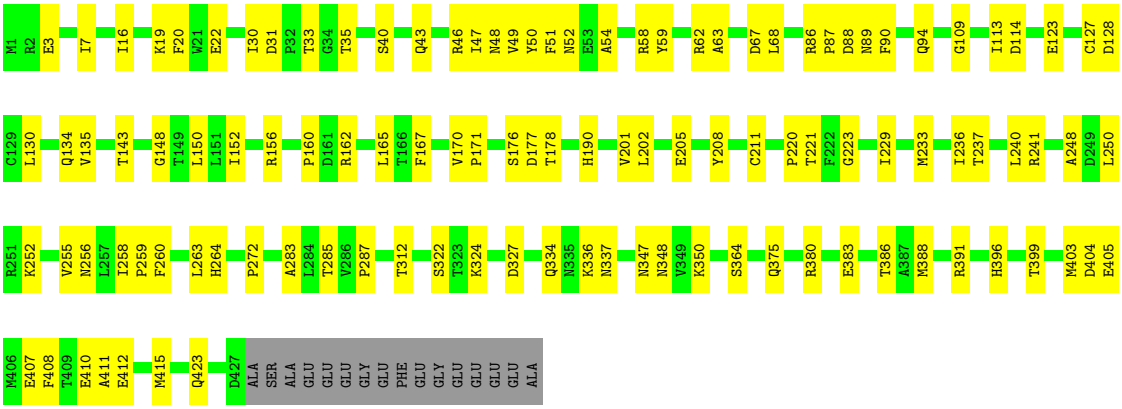
• Molecule 25: Tubulin beta

Chain PK:



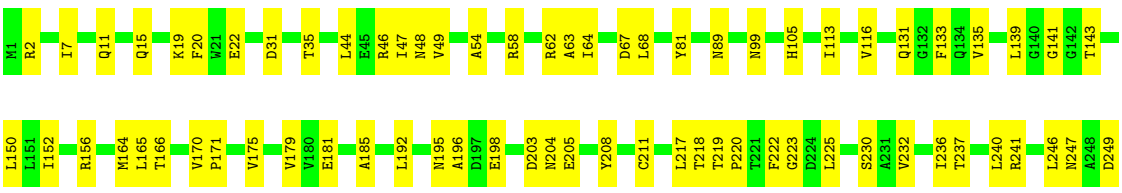
• Molecule 25: Tubulin beta

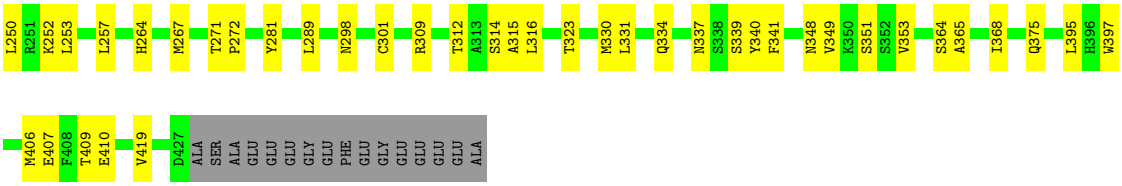
Chain PM:



• Molecule 25: Tubulin beta

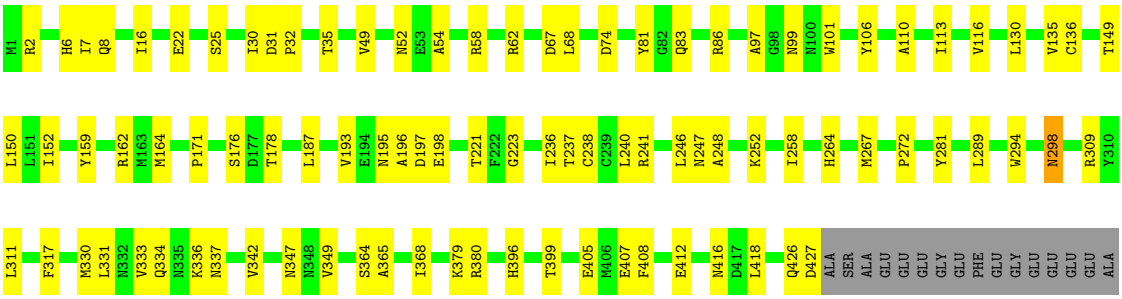
Chain PO:





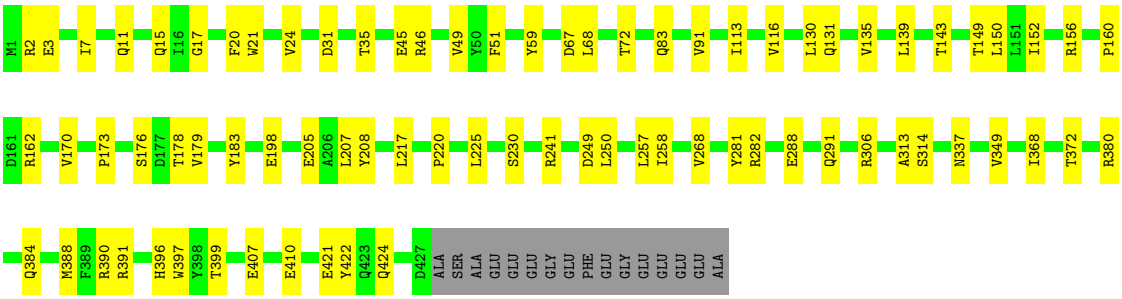
• Molecule 25: Tubulin beta

Chain PQ:



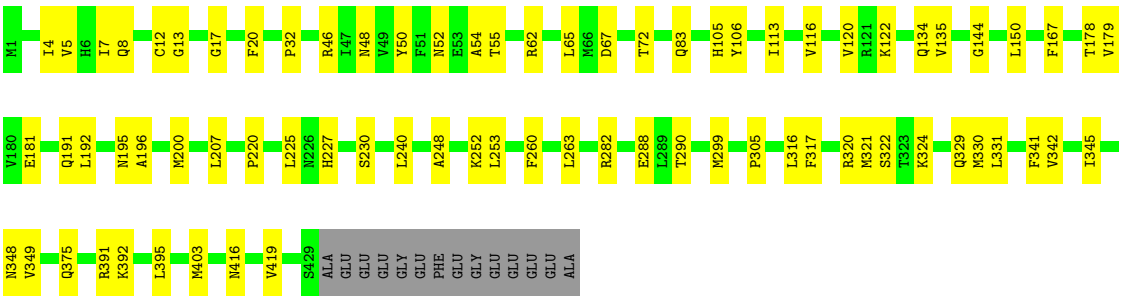
• Molecule 25: Tubulin beta

Chain QC:



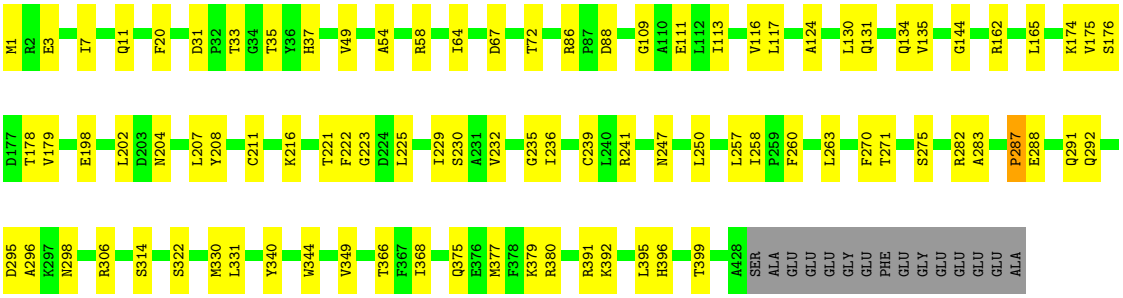
• Molecule 25: Tubulin beta

Chain QE:



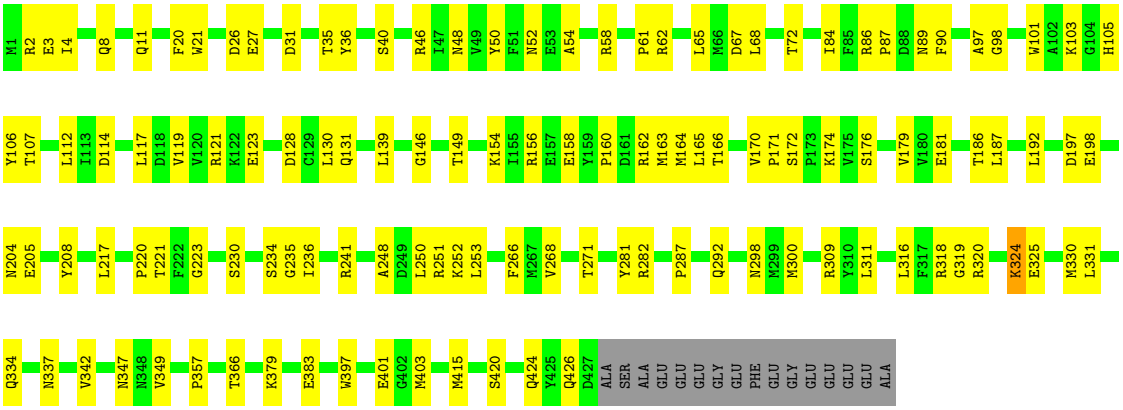
• Molecule 25: Tubulin beta

Chain QG:



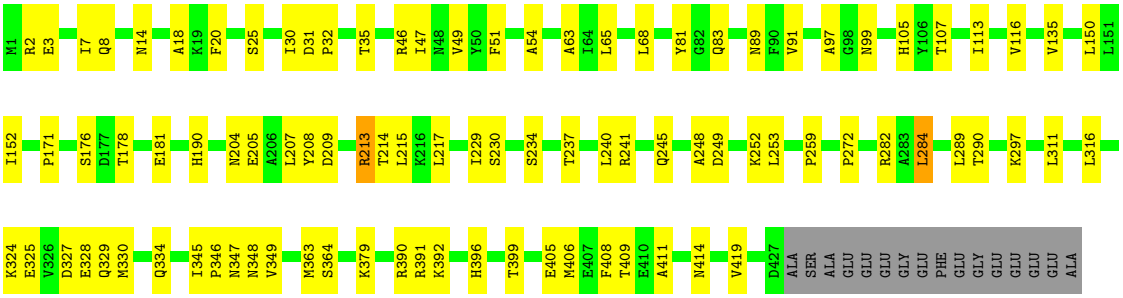
• Molecule 25: Tubulin beta

Chain QI:



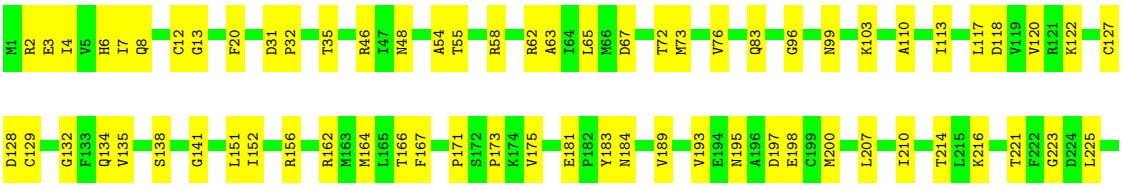
• Molecule 25: Tubulin beta

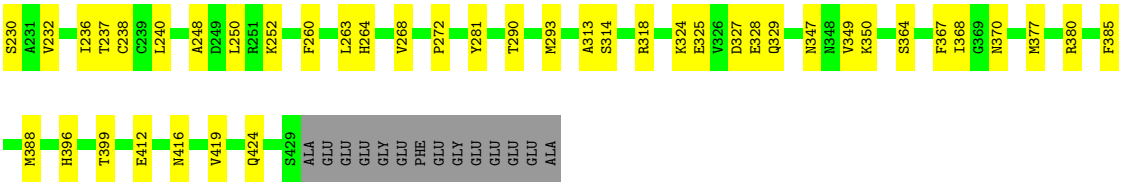
Chain QK:



• Molecule 25: Tubulin beta

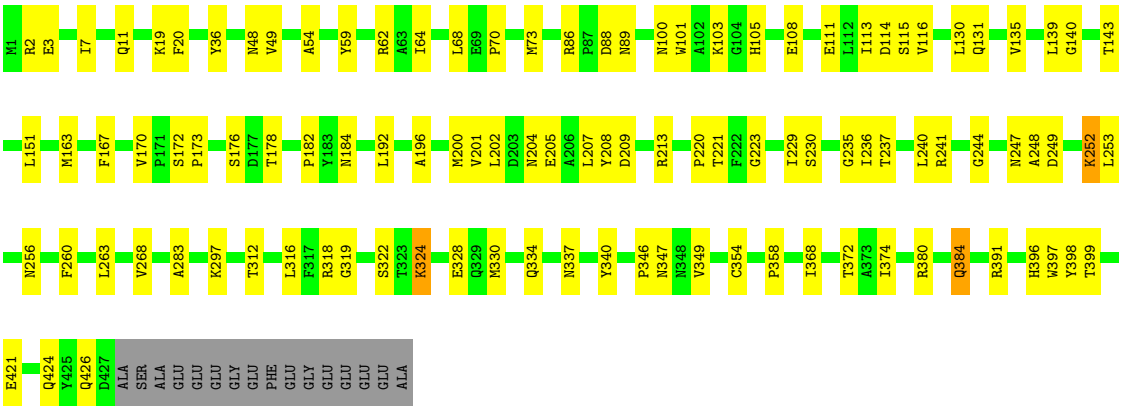
Chain QM:





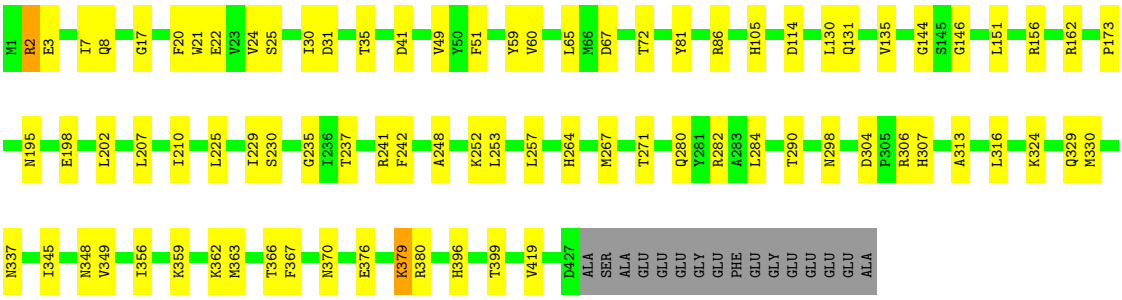
• Molecule 25: Tubulin beta

Chain QO:



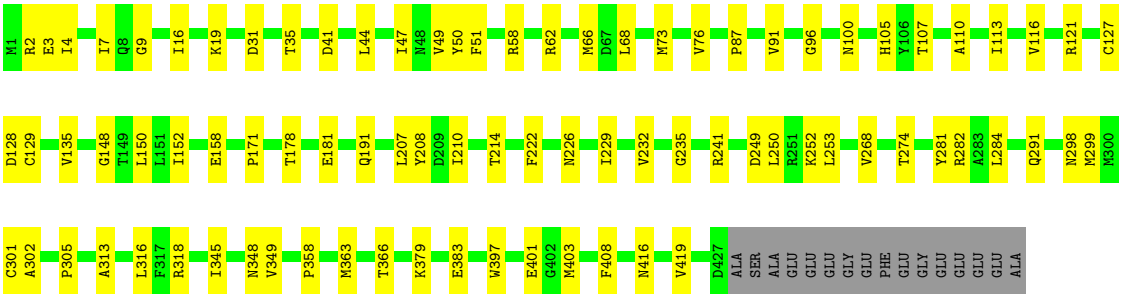
• Molecule 25: Tubulin beta

Chain QQ:



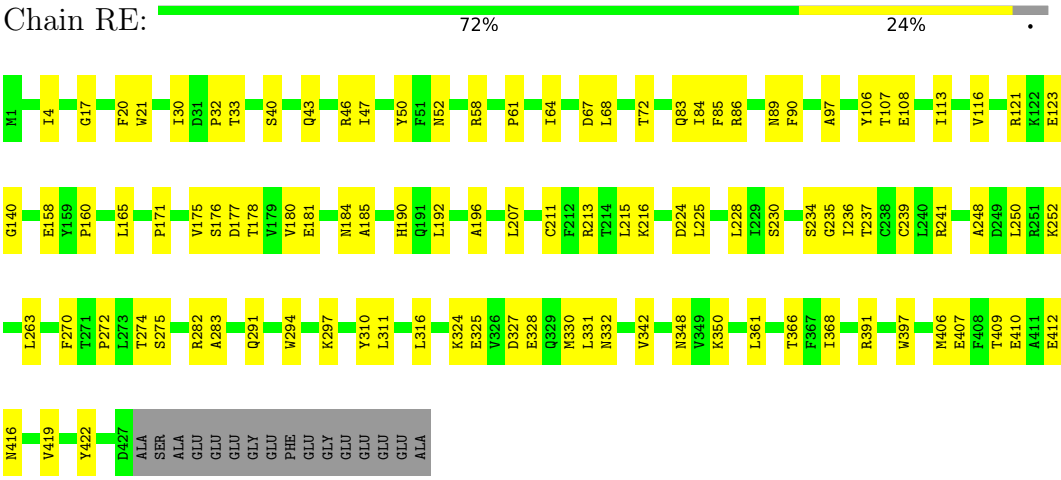
• Molecule 25: Tubulin beta

Chain RC:



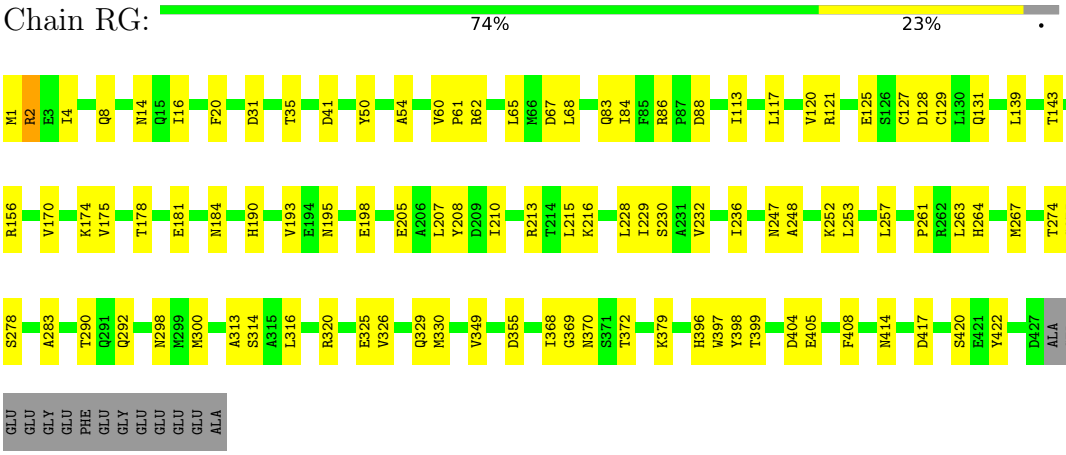
• Molecule 25: Tubulin beta

Chain RE:



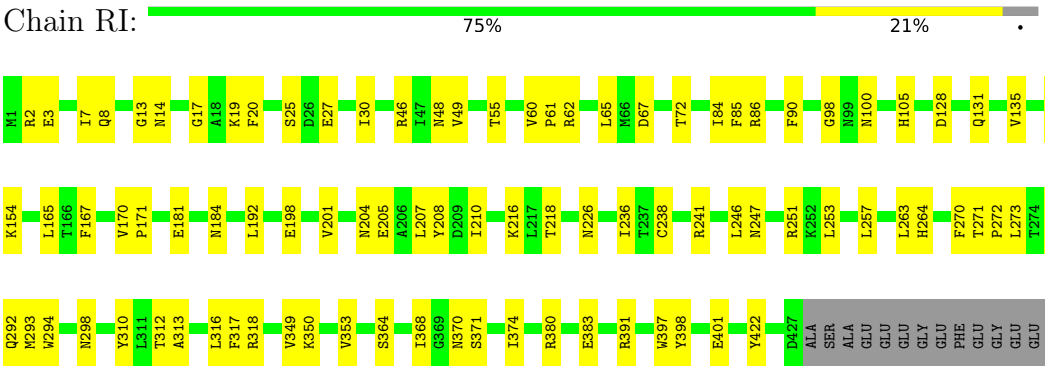
• Molecule 25: Tubulin beta

Chain RG:



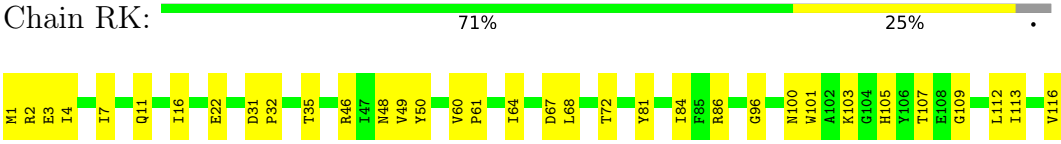
• Molecule 25: Tubulin beta

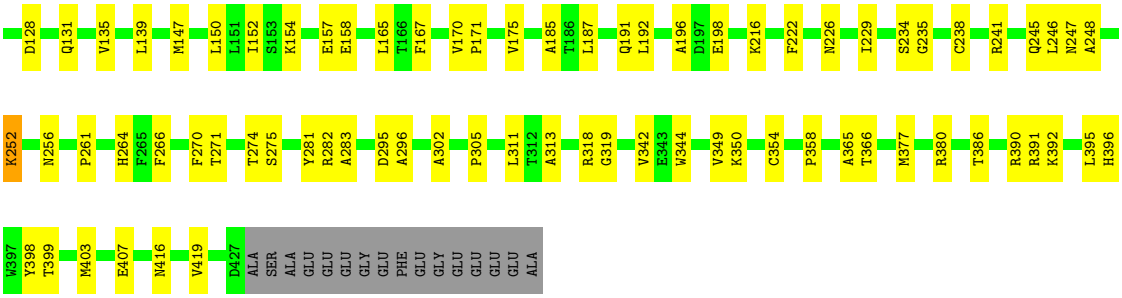
Chain RI:



• Molecule 25: Tubulin beta

Chain RK:



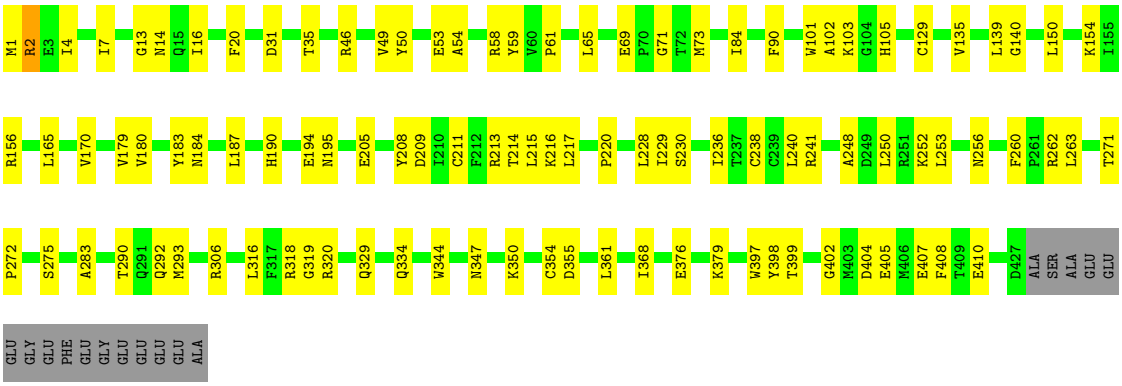


• Molecule 25: Tubulin beta

Chain RM:

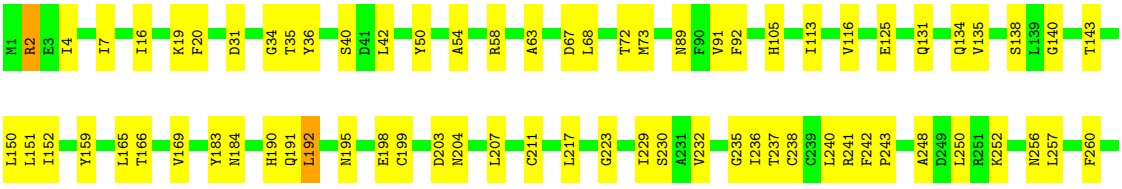
• Molecule 25: Tubulin beta

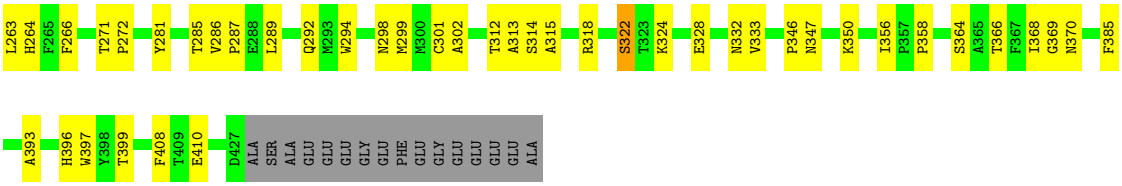
Chain RO:



• Molecule 25: Tubulin beta

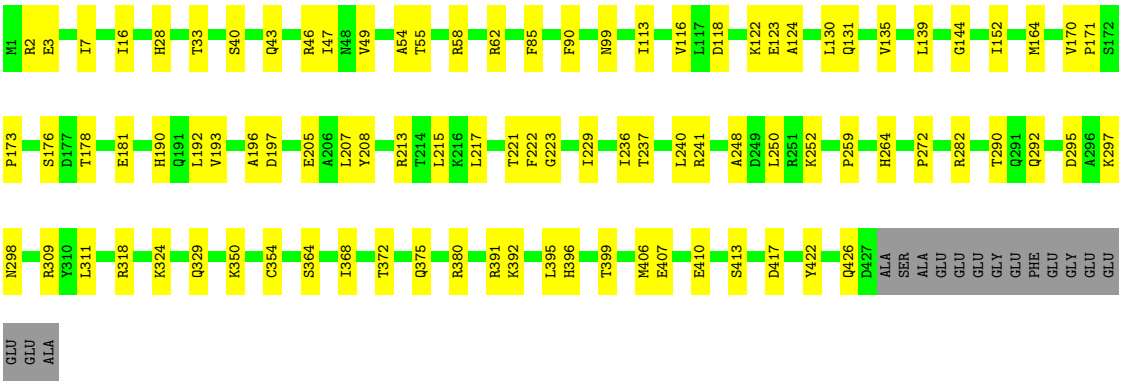
Chain SC:





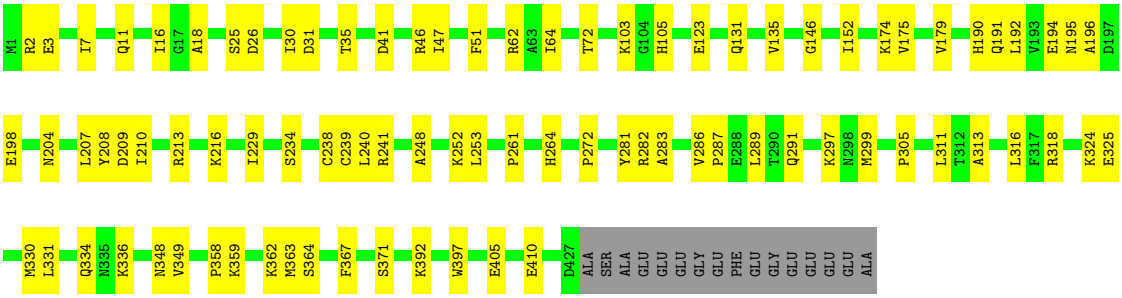
• Molecule 25: Tubulin beta

Chain SE:



• Molecule 25: Tubulin beta

Chain SG:

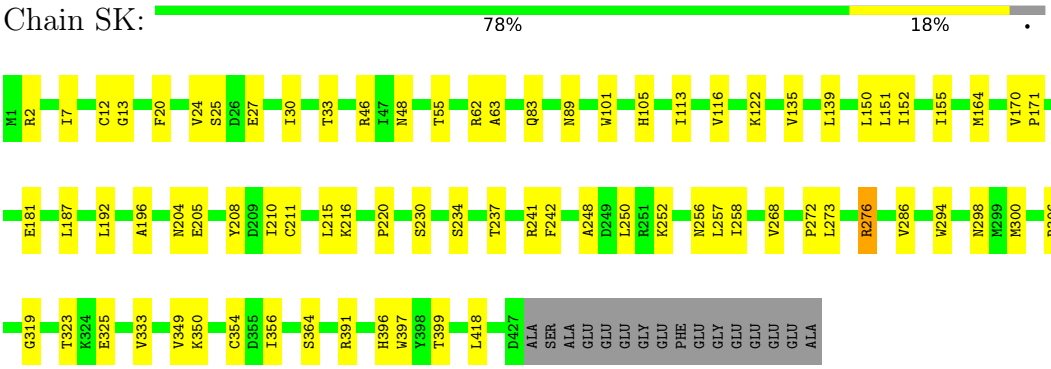


• Molecule 25: Tubulin beta

Chain SI:

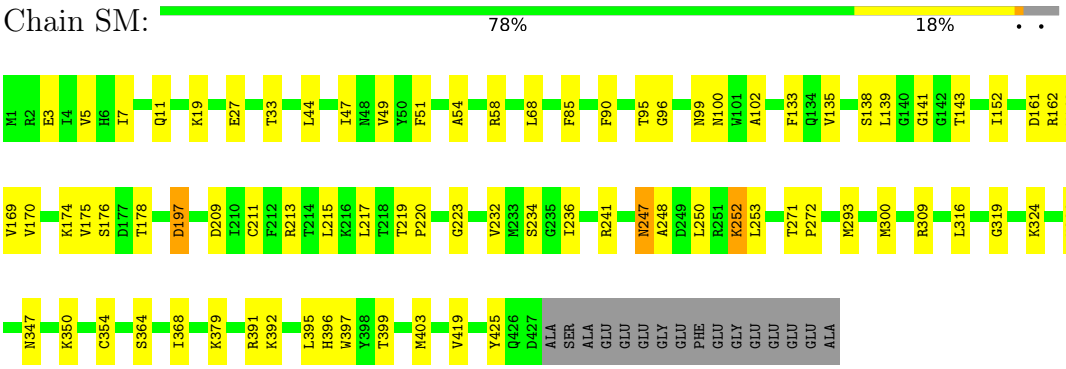
• Molecule 25: Tubulin beta

Chain SK:



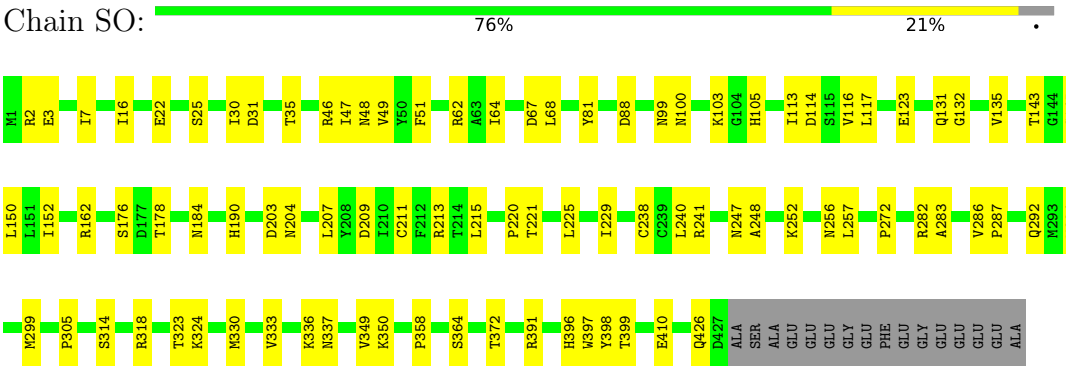
• Molecule 25: Tubulin beta

Chain SM:



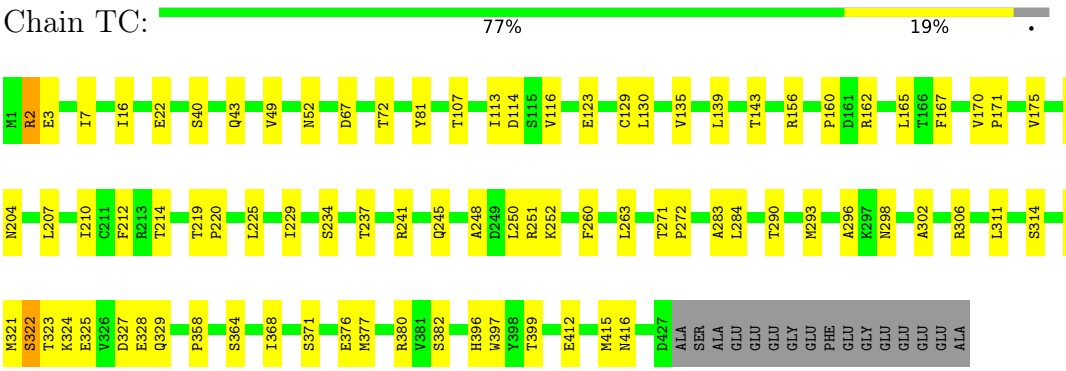
• Molecule 25: Tubulin beta

Chain SO:



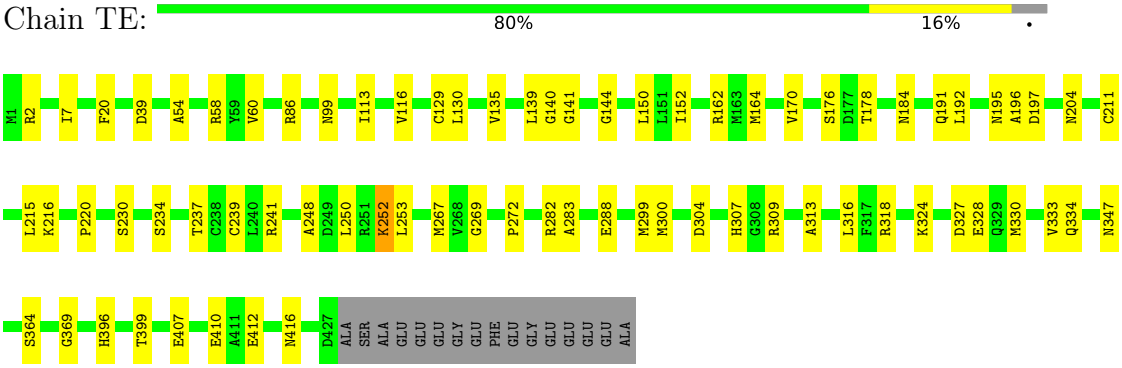
• Molecule 25: Tubulin beta

Chain TC:



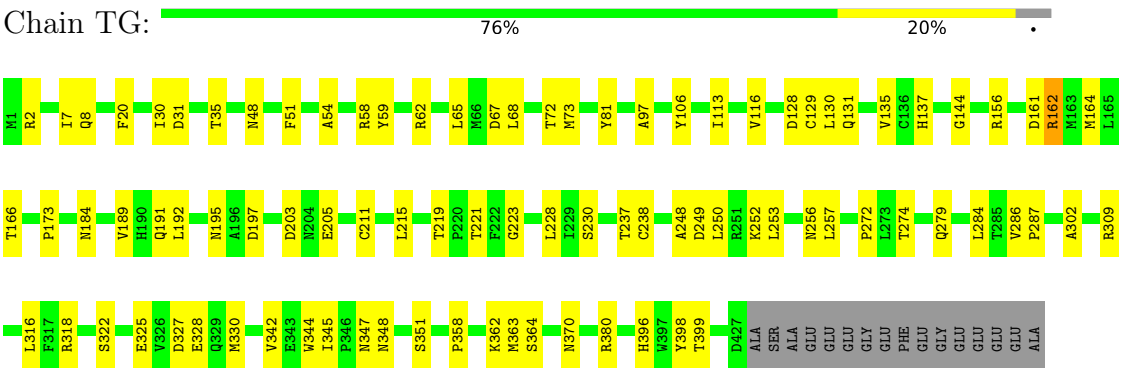
• Molecule 25: Tubulin beta

Chain TE:



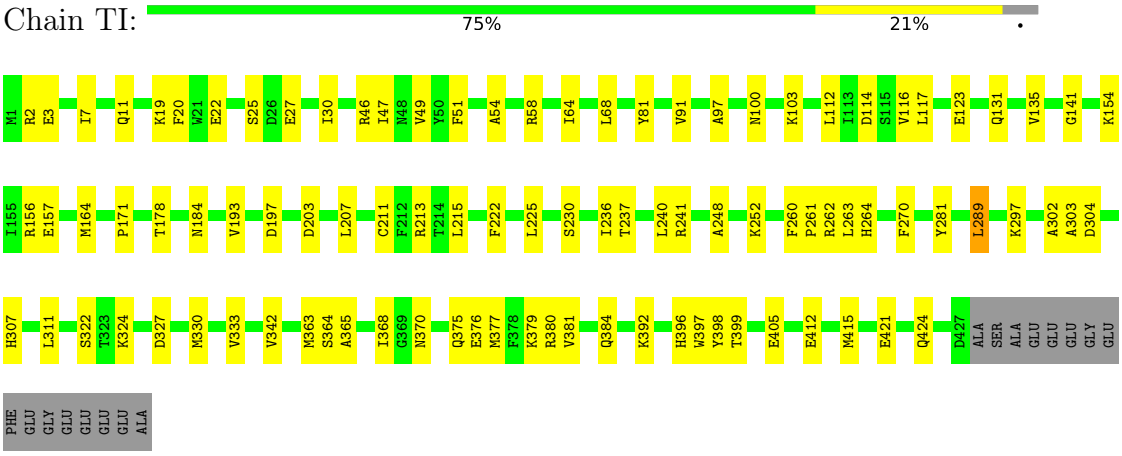
• Molecule 25: Tubulin beta

Chain TG:



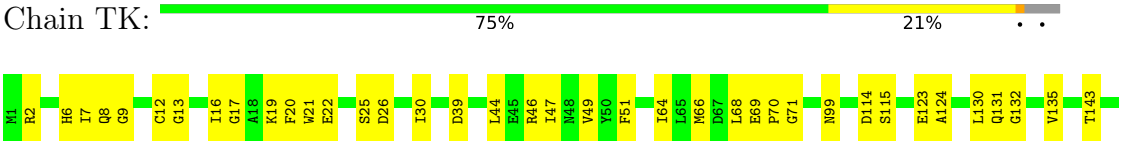
• Molecule 25: Tubulin beta

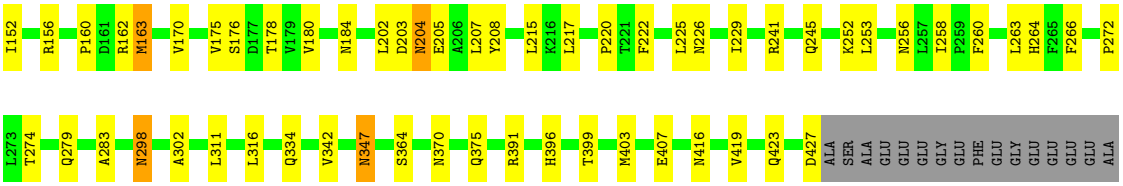
Chain TI:



• Molecule 25: Tubulin beta

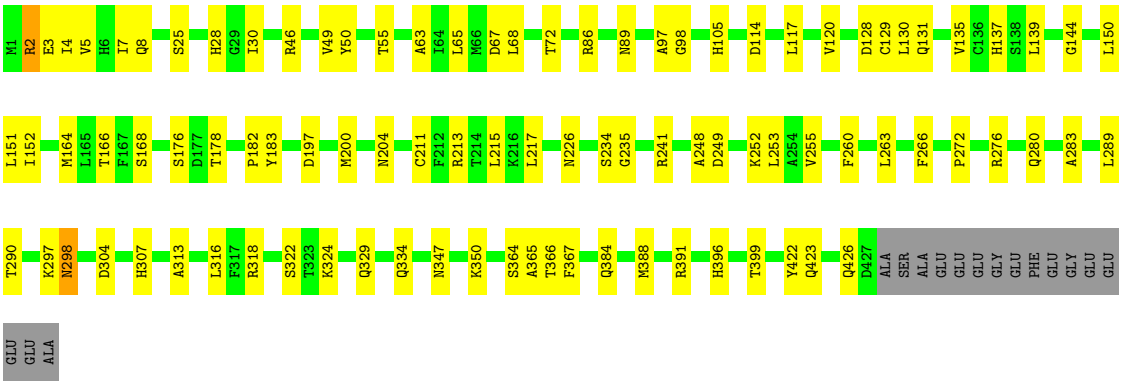
Chain TK:





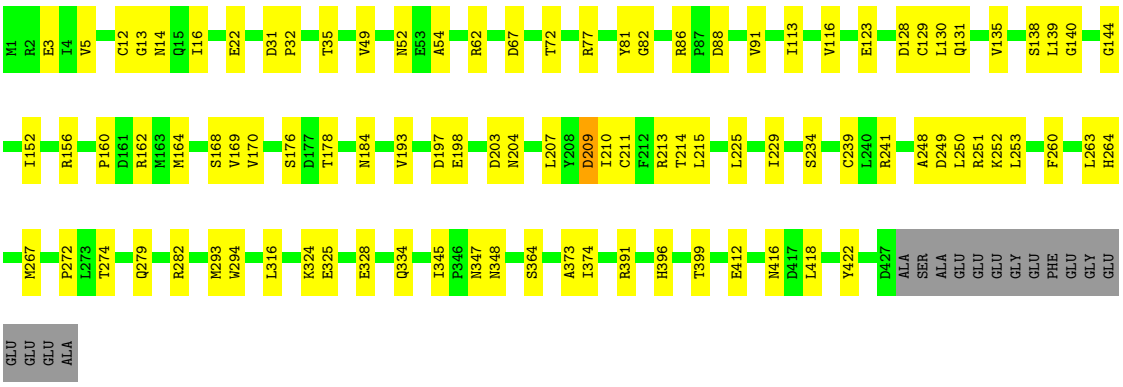
• Molecule 25: Tubulin beta

Chain TM:



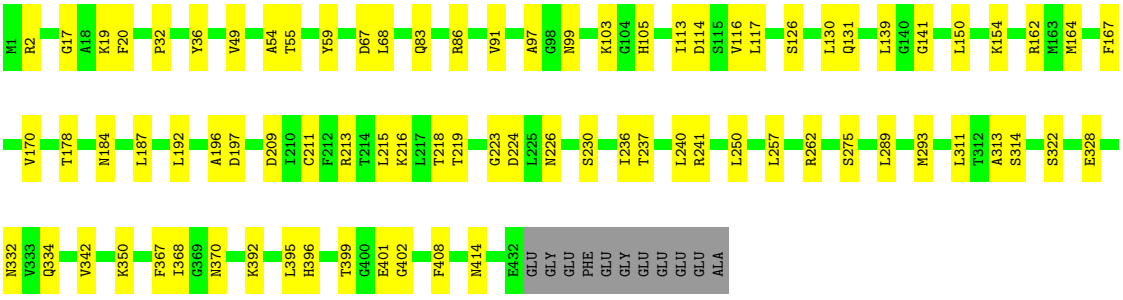
• Molecule 25: Tubulin beta

Chain TO:



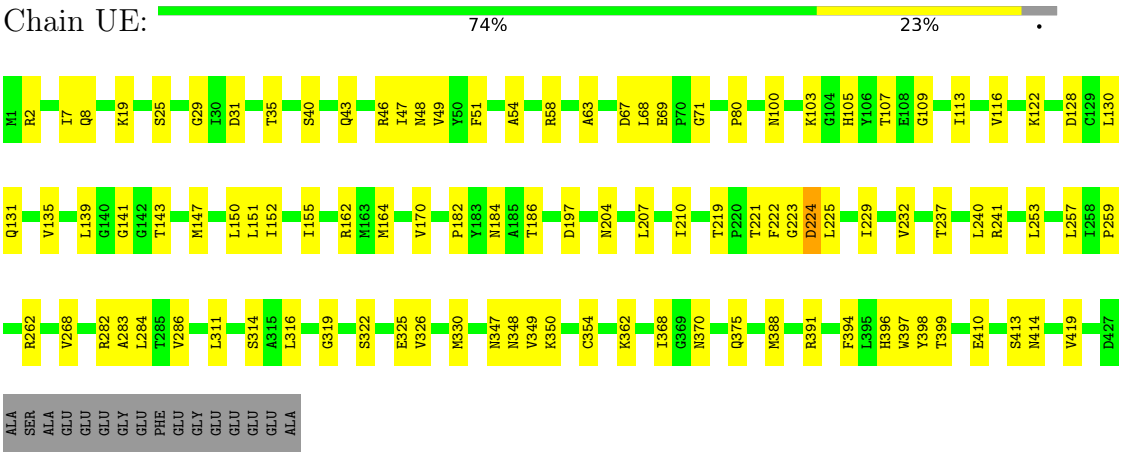
• Molecule 25: Tubulin beta

Chain UC:



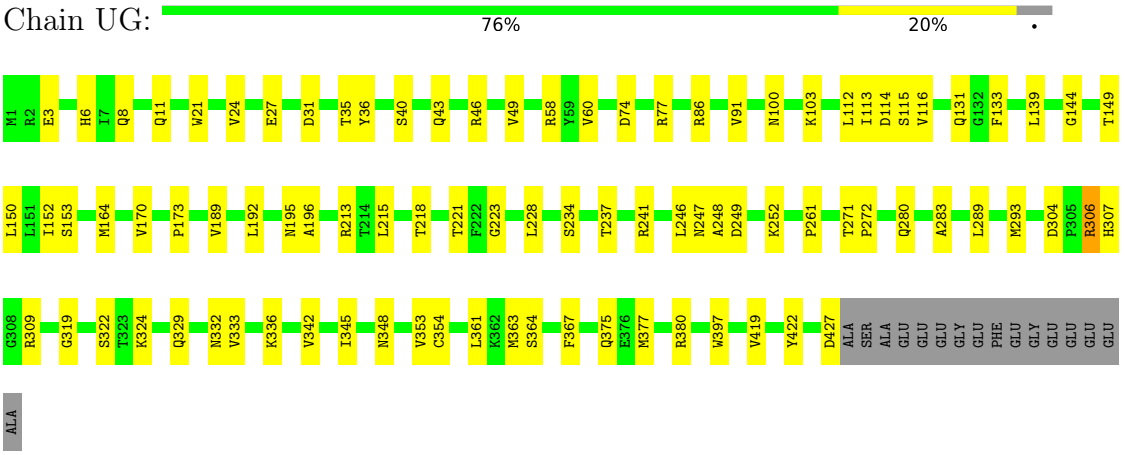
• Molecule 25: Tubulin beta

Chain UE:



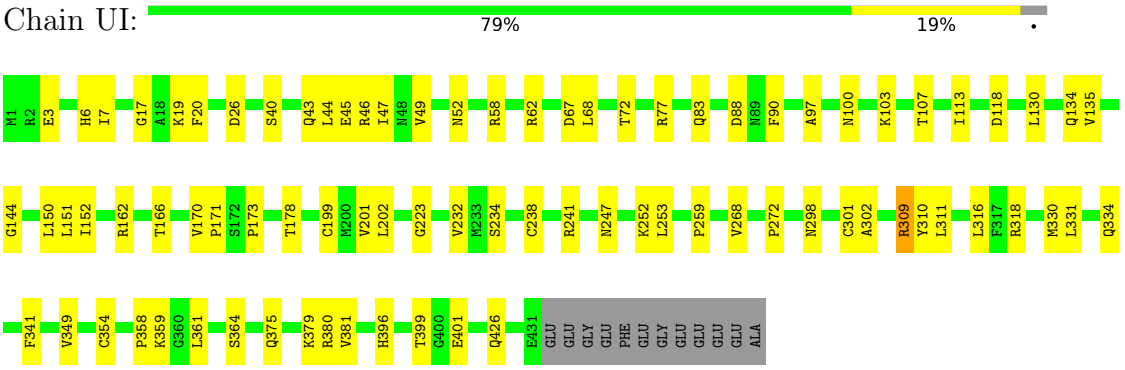
• Molecule 25: Tubulin beta

Chain UG:



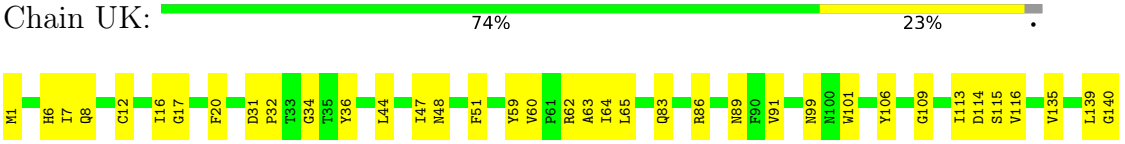
• Molecule 25: Tubulin beta

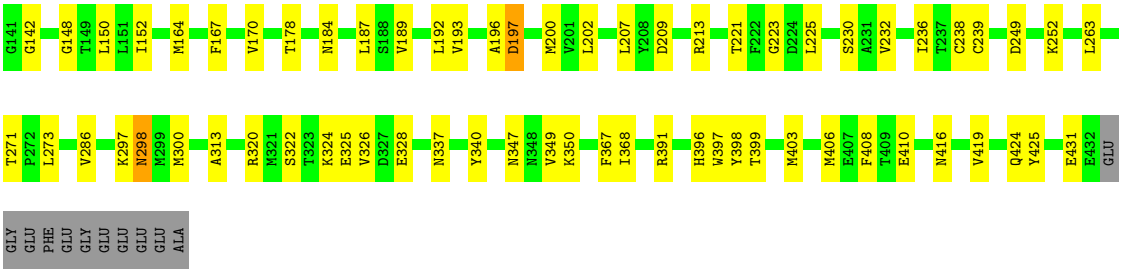
Chain UI:



• Molecule 25: Tubulin beta

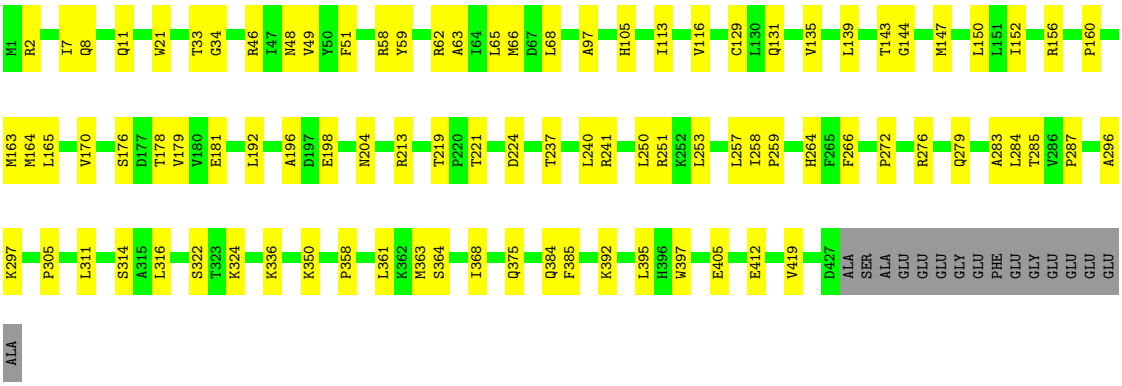
Chain UK:





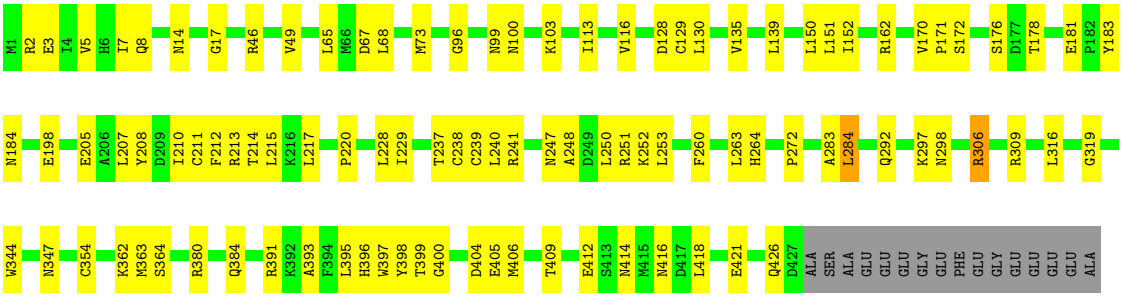
• Molecule 25: Tubulin beta

Chain UM:



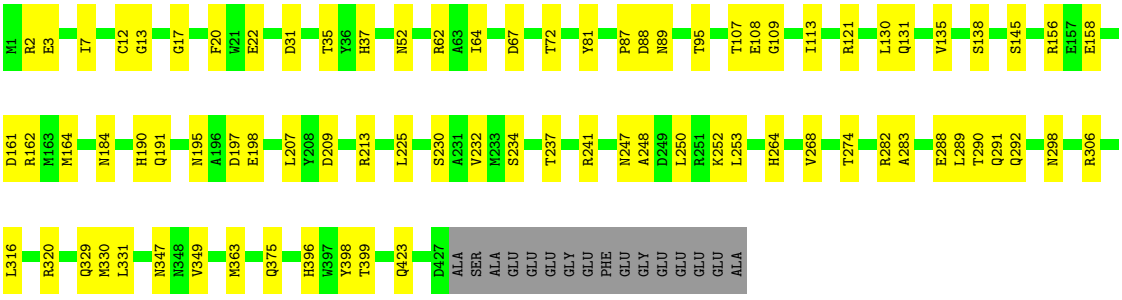
• Molecule 25: Tubulin beta

Chain UO:



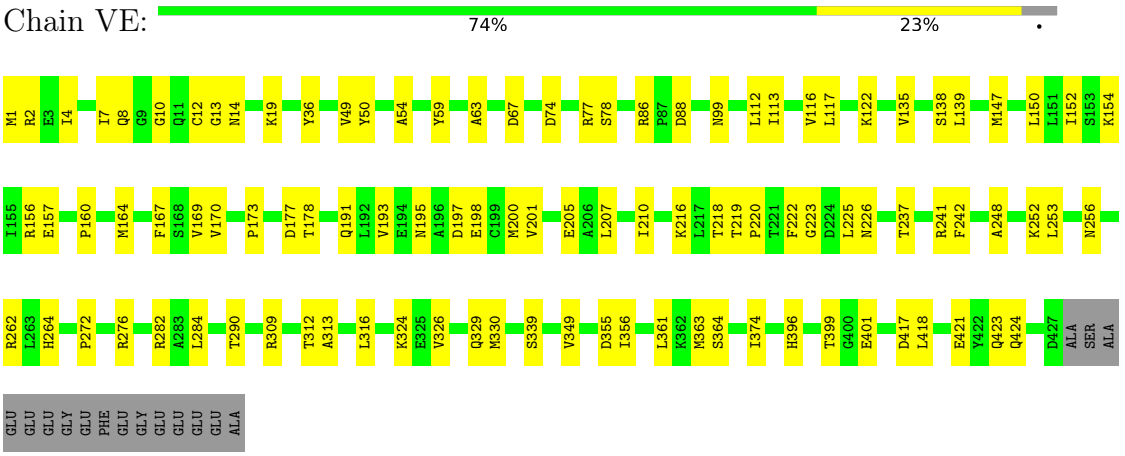
• Molecule 25: Tubulin beta

Chain VC:



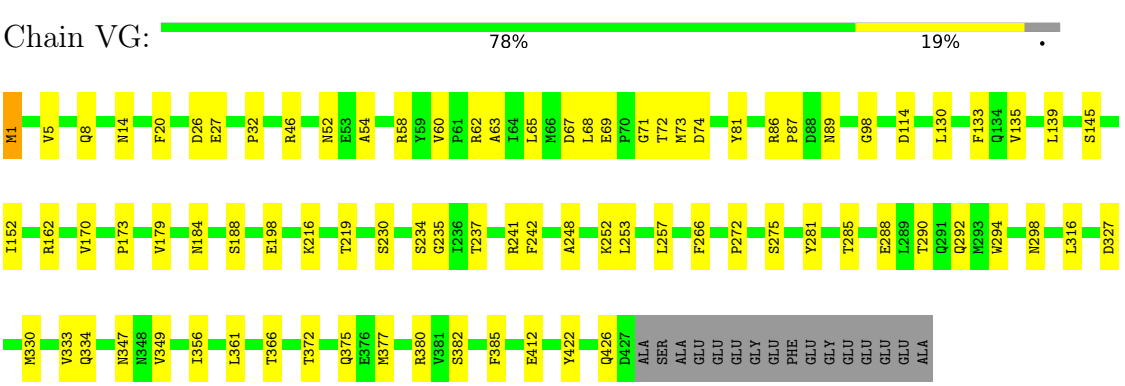
• Molecule 25: Tubulin beta

Chain VE:



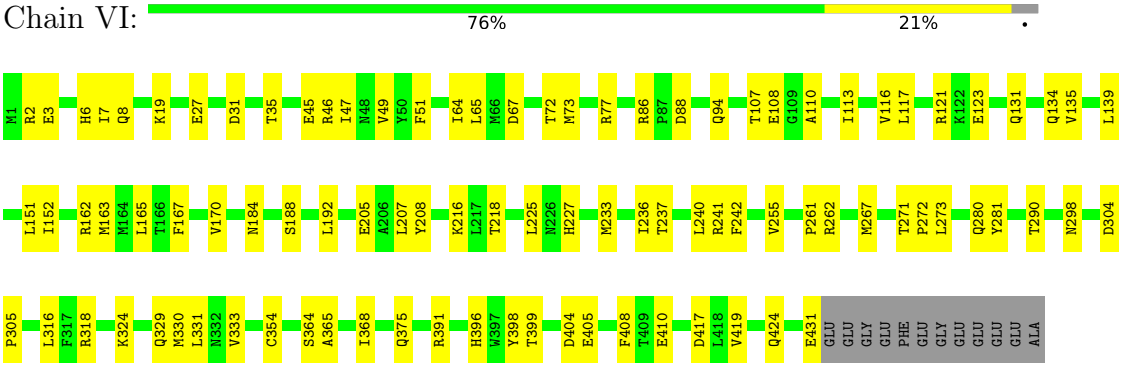
• Molecule 25: Tubulin beta

Chain VG:



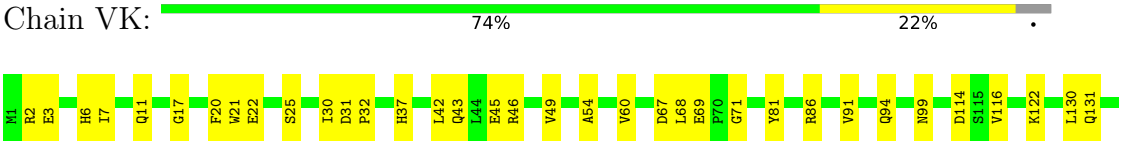
• Molecule 25: Tubulin beta

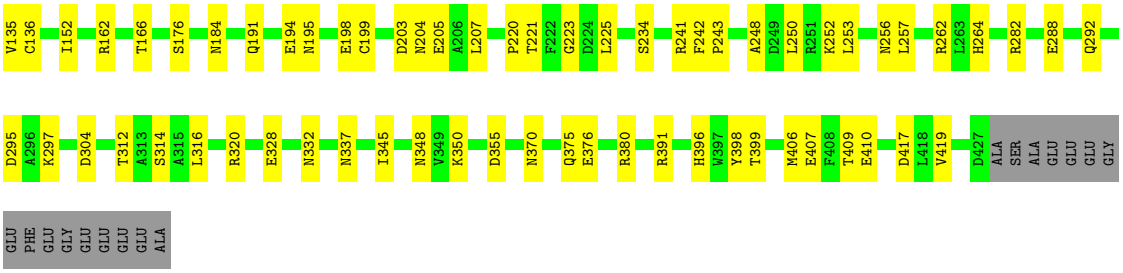
Chain VI:



• Molecule 25: Tubulin beta

Chain VK:





• Molecule 25: Tubulin beta

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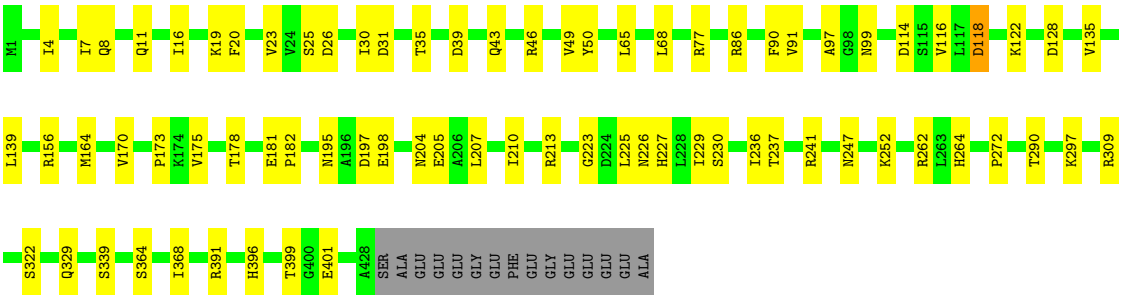
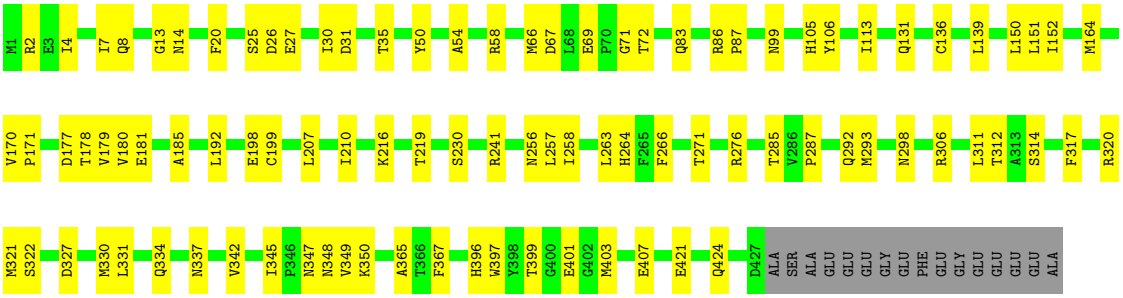


• Molecule 25: Tubulin beta

Chain VO:



• Molecule 25: Tubulin beta

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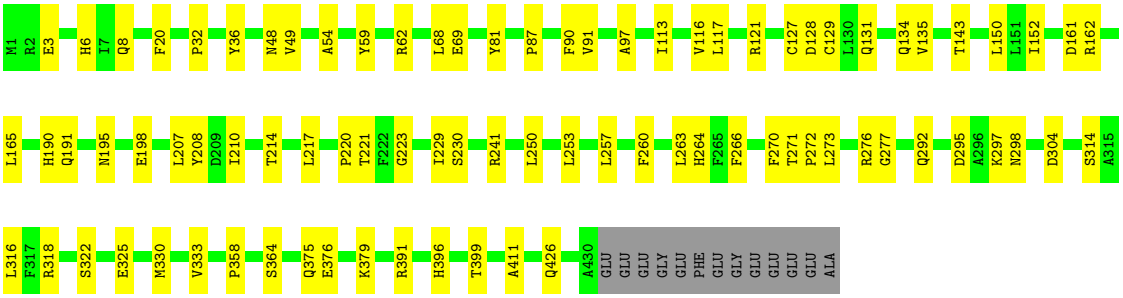
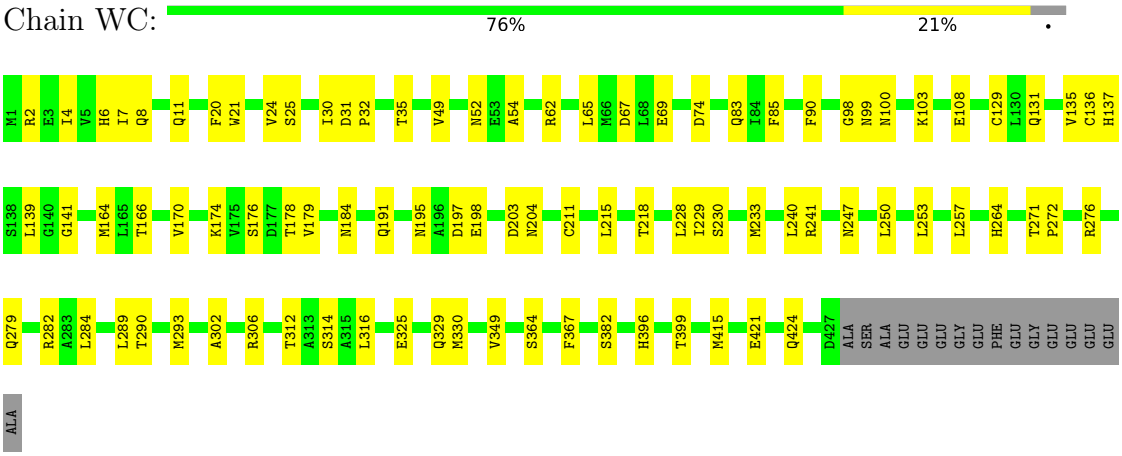


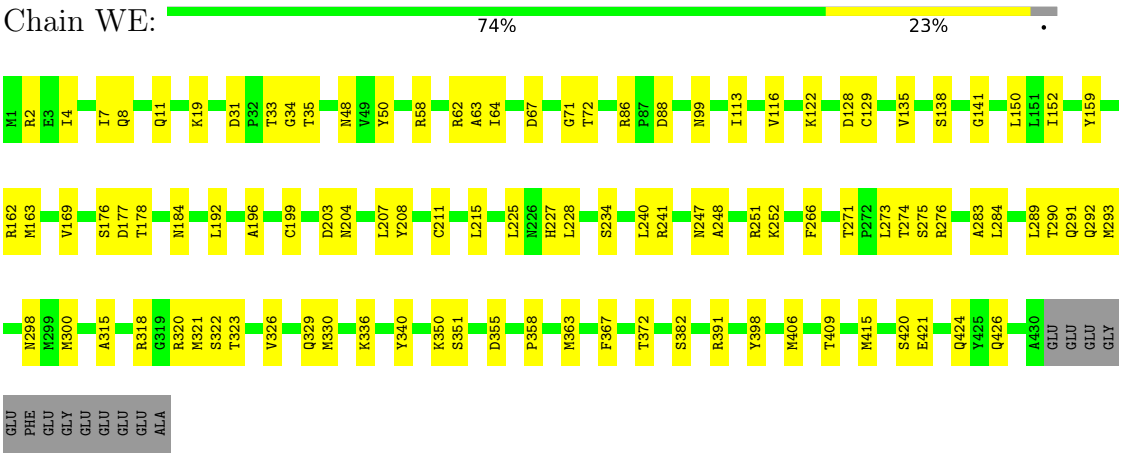
• Molecule 25: Tubulin beta

Chain WC:



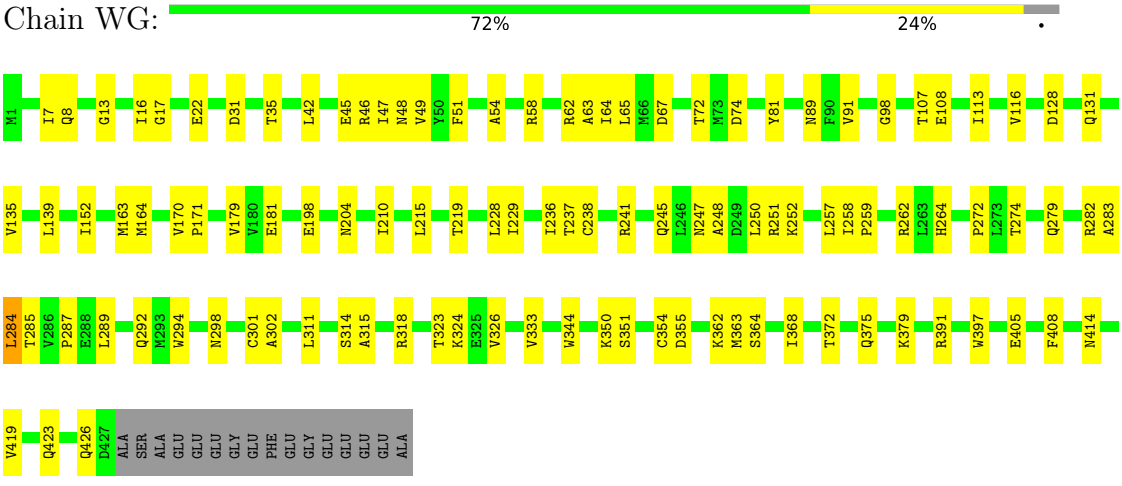
• Molecule 25: Tubulin beta

Chain WE:



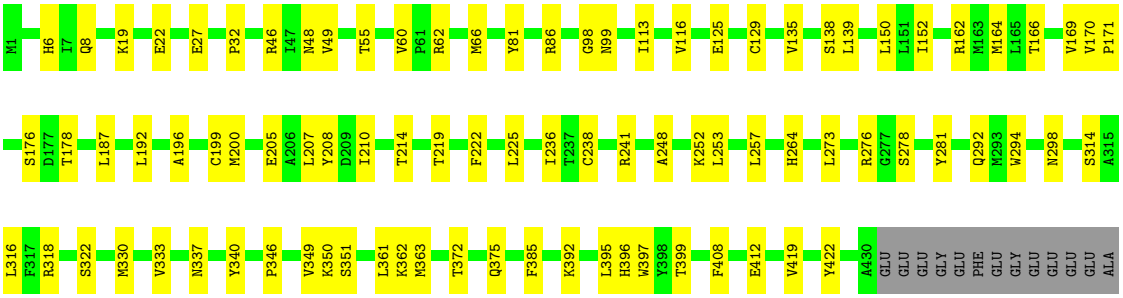
• Molecule 25: Tubulin beta

Chain WG:



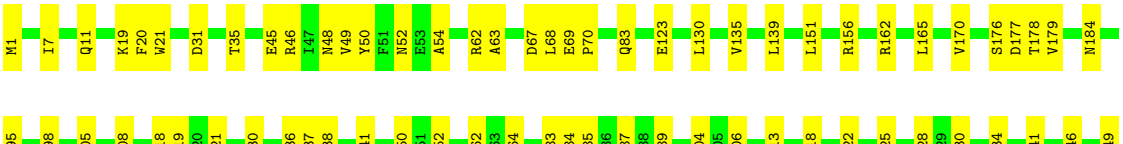
• Molecule 25: Tubulin beta

Chain WI:



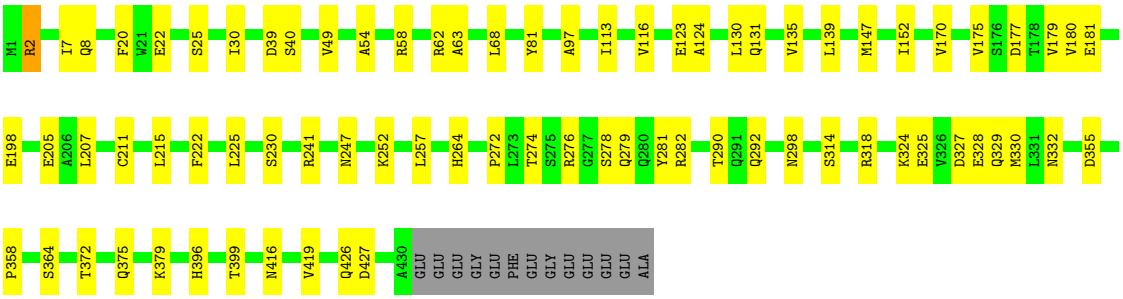
• Molecule 25: Tubulin beta

Chain WK:



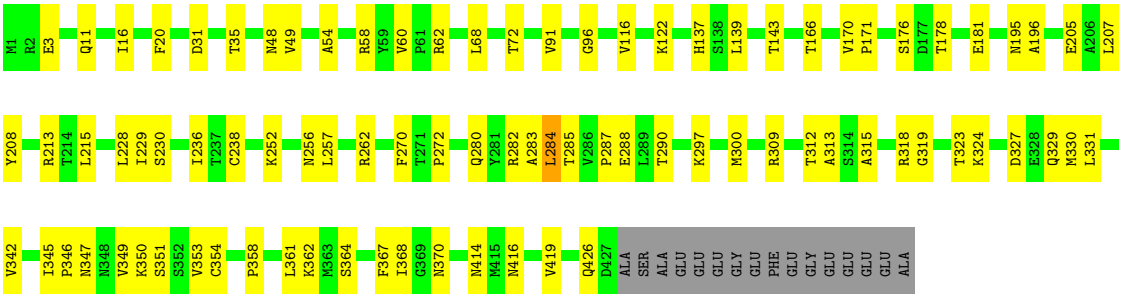
• Molecule 25: Tubulin beta

Chain WM:



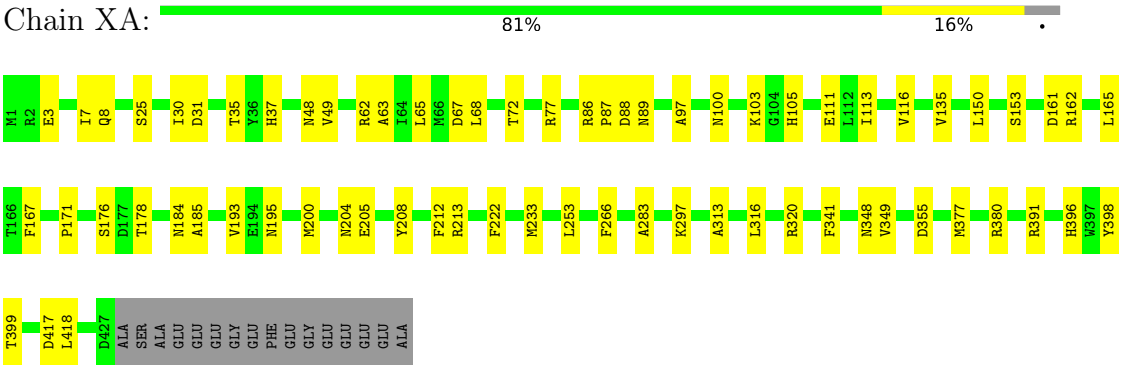
• Molecule 25: Tubulin beta

Chain WO:



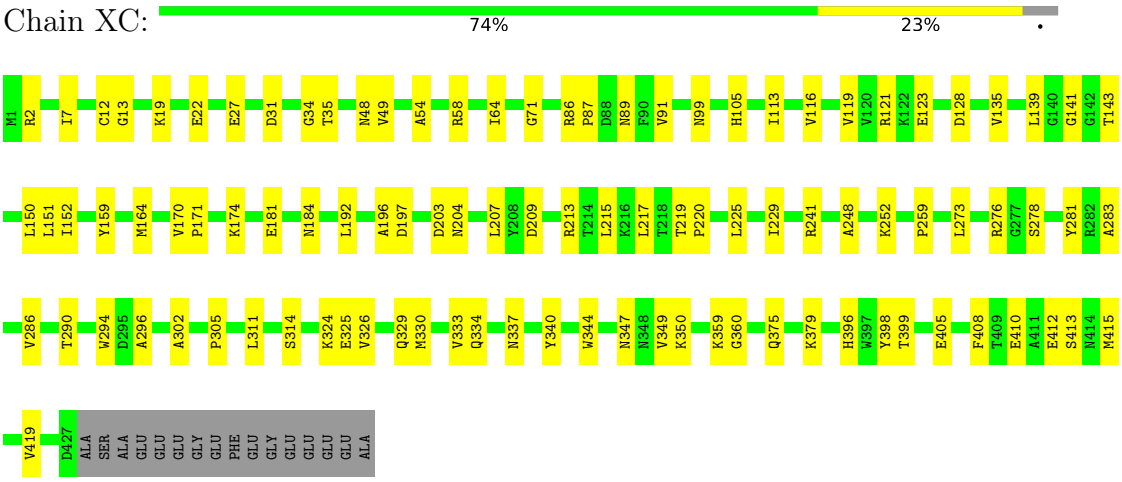
• Molecule 25: Tubulin beta

Chain XA:



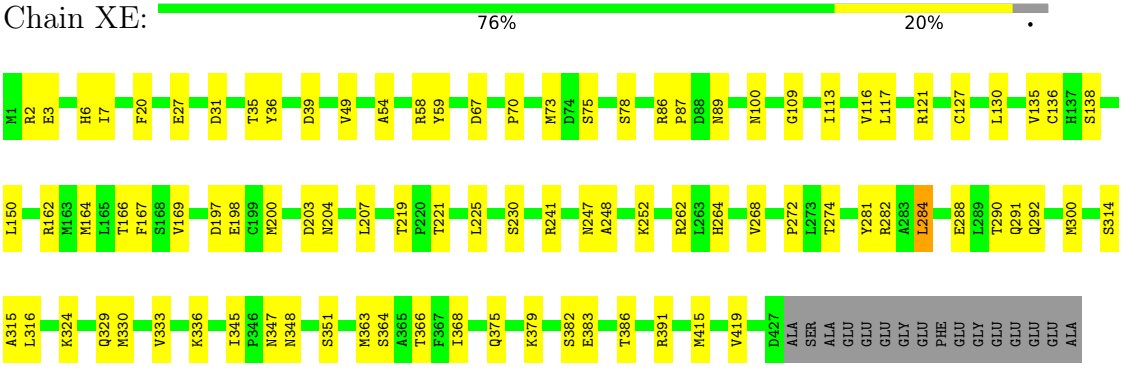
• Molecule 25: Tubulin beta

Chain XC:



• Molecule 25: Tubulin beta

Chain XE:



• Molecule 25: Tubulin beta

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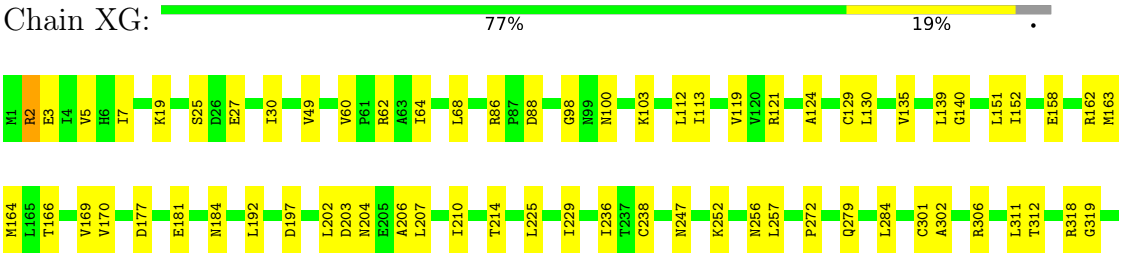
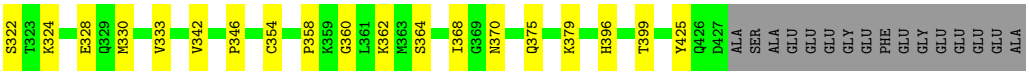
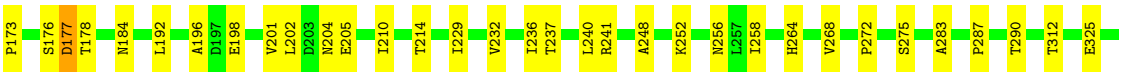




• Molecule 25: Tubulin beta

Chain XI:



• Molecule 25: Tubulin beta

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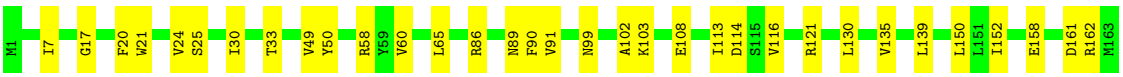
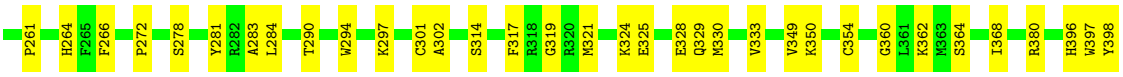
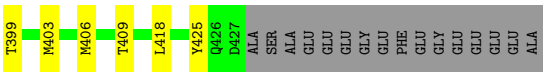
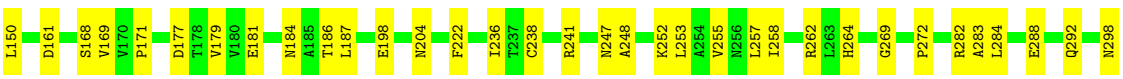


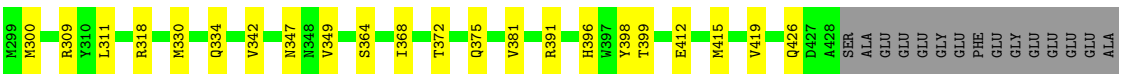




• Molecule 25: Tubulin beta

Chain XM:





• Molecule 25: Tubulin beta

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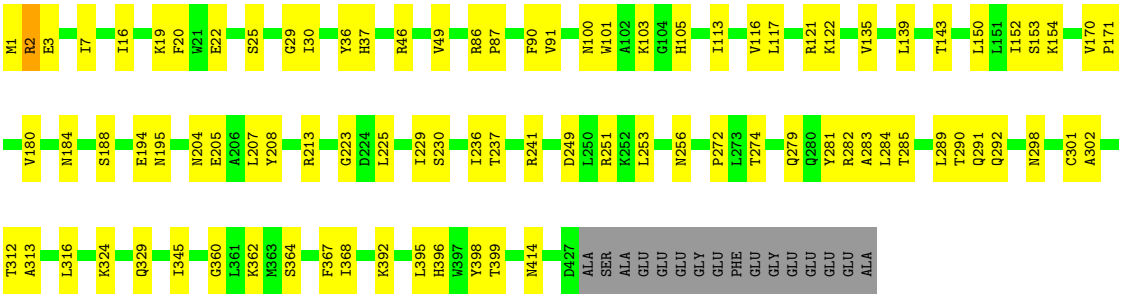
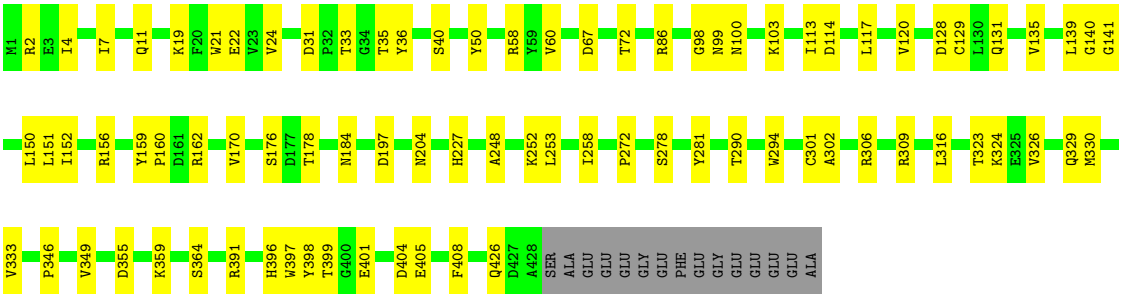


• Molecule 25: Tubulin beta

Chain YC:



• Molecule 25: Tubulin beta

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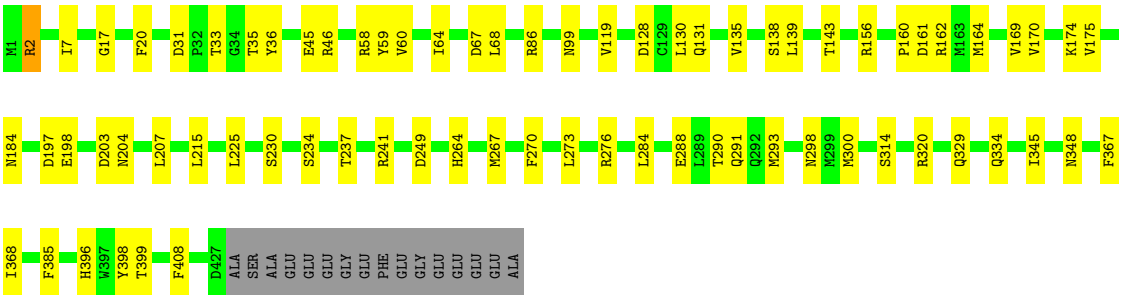
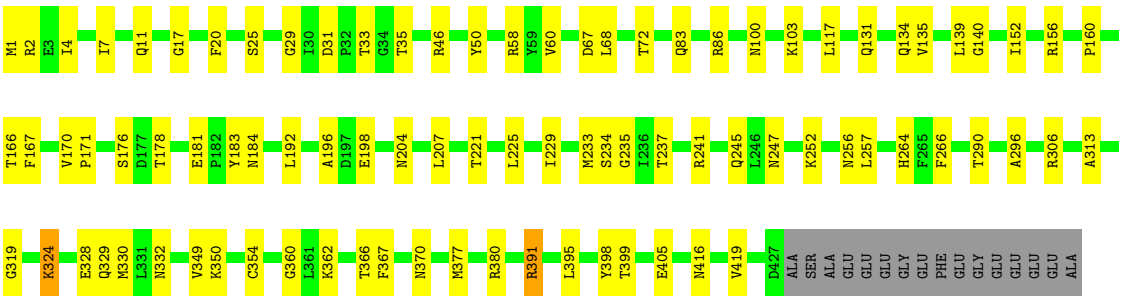


• Molecule 25: Tubulin beta

Chain YG:



• Molecule 25: Tubulin beta

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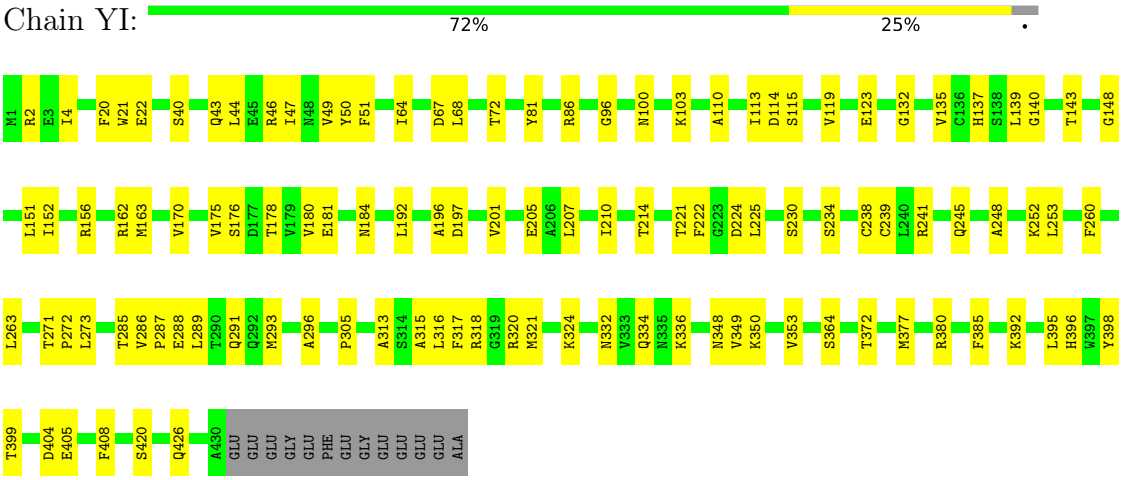

• Molecule 25: Tubulin beta

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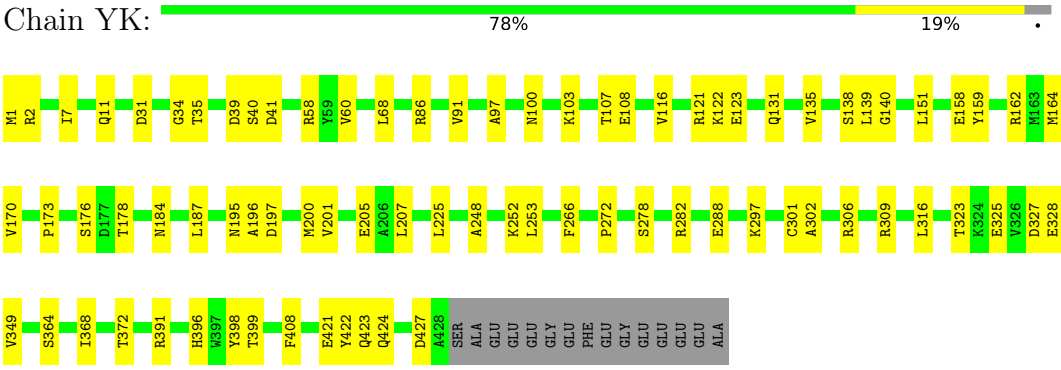
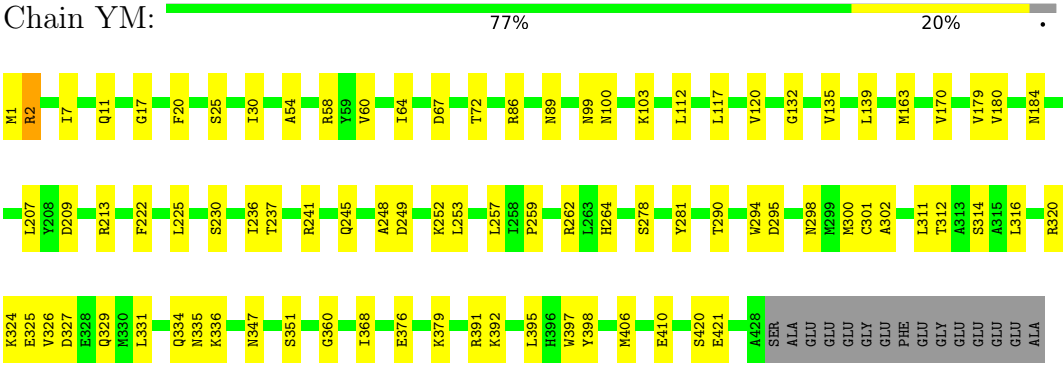


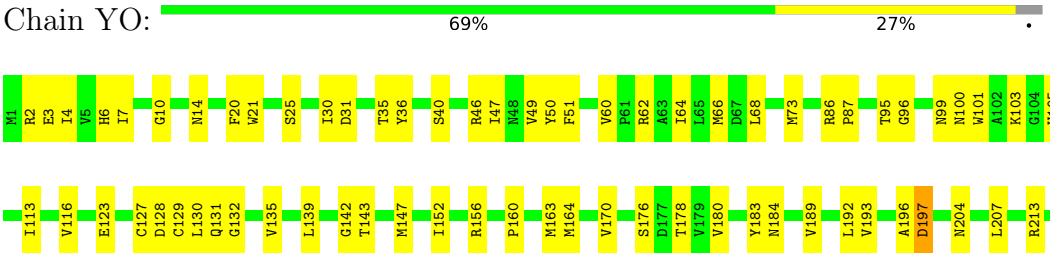
• Molecule 25: Tubulin beta

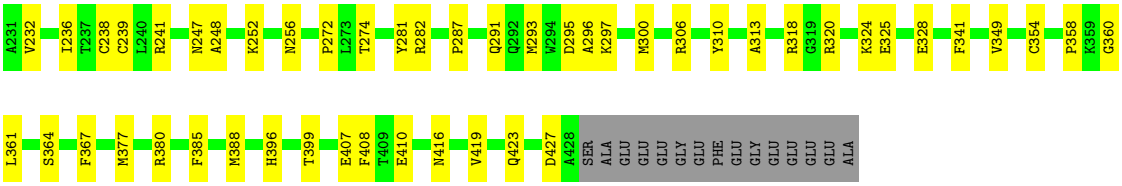
Chain YM:



• Molecule 25: Tubulin beta

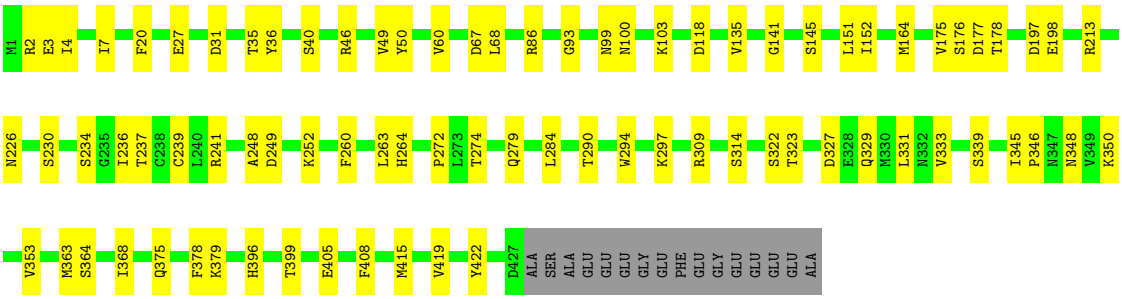
Chain YO:





• Molecule 25: Tubulin beta

Chain ZC:



• Molecule 25: Tubulin beta

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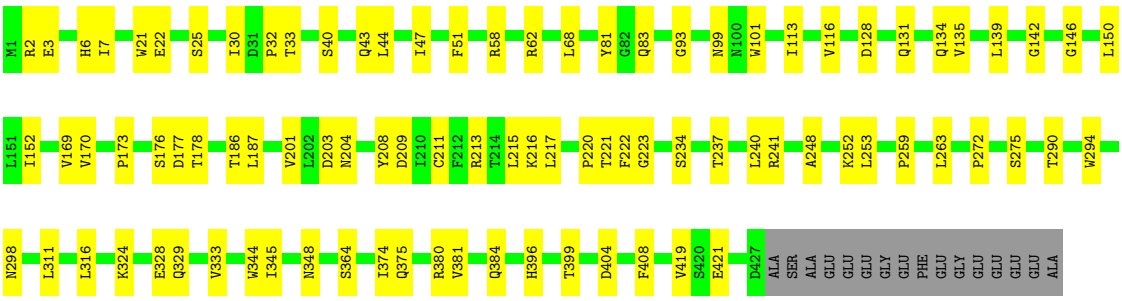
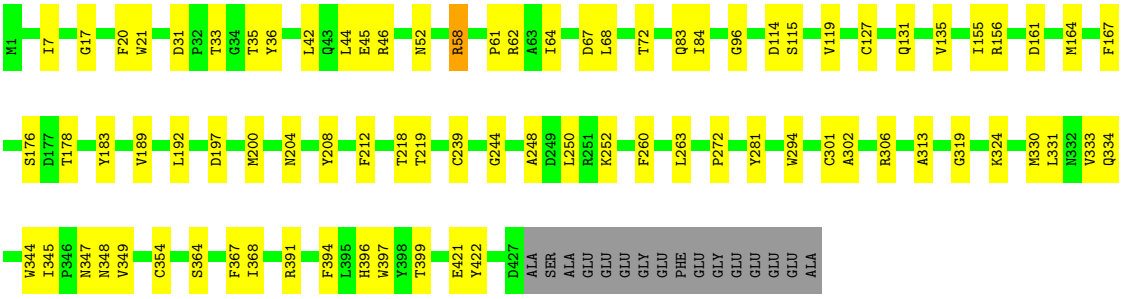


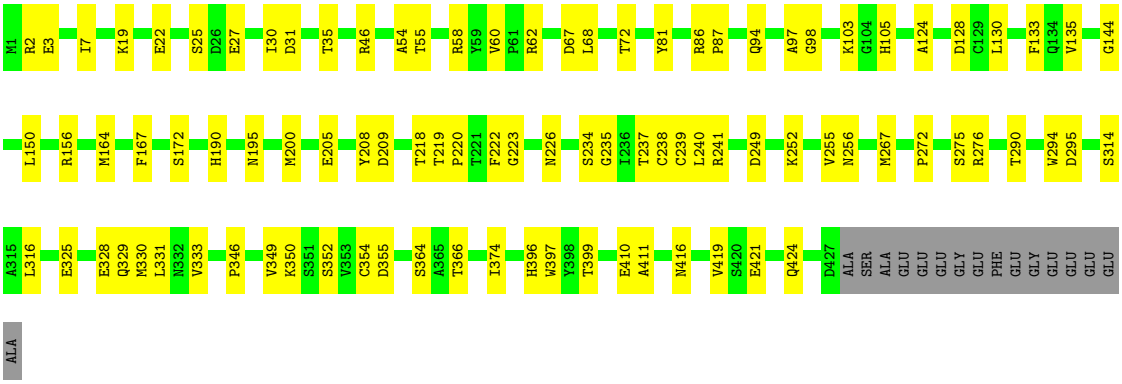
• Molecule 25: Tubulin beta

Chain ZG:



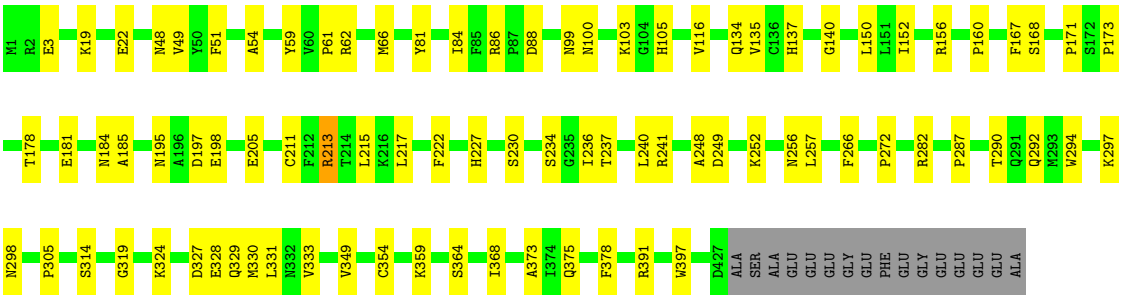
• Molecule 25: Tubulin beta

Chain ZI:



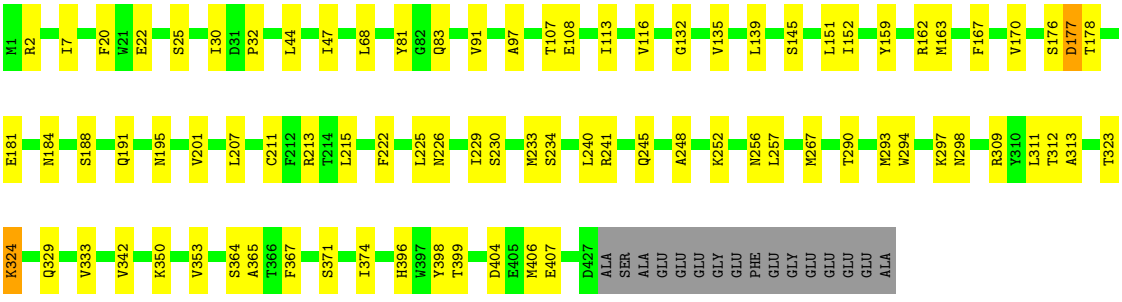
• Molecule 25: Tubulin beta

Chain ZK:



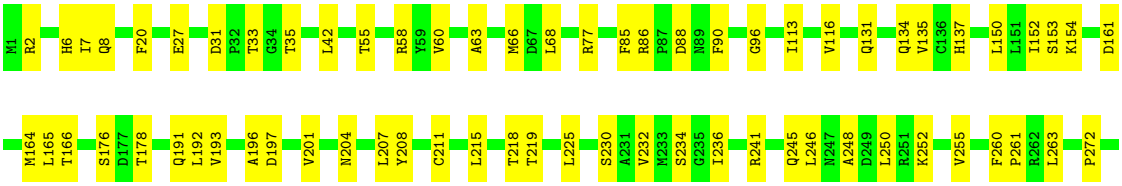
• Molecule 25: Tubulin beta

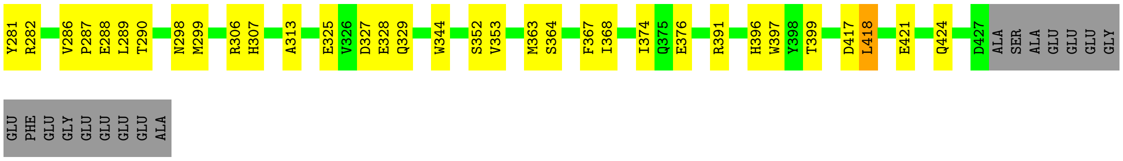
Chain ZM:



• Molecule 25: Tubulin beta

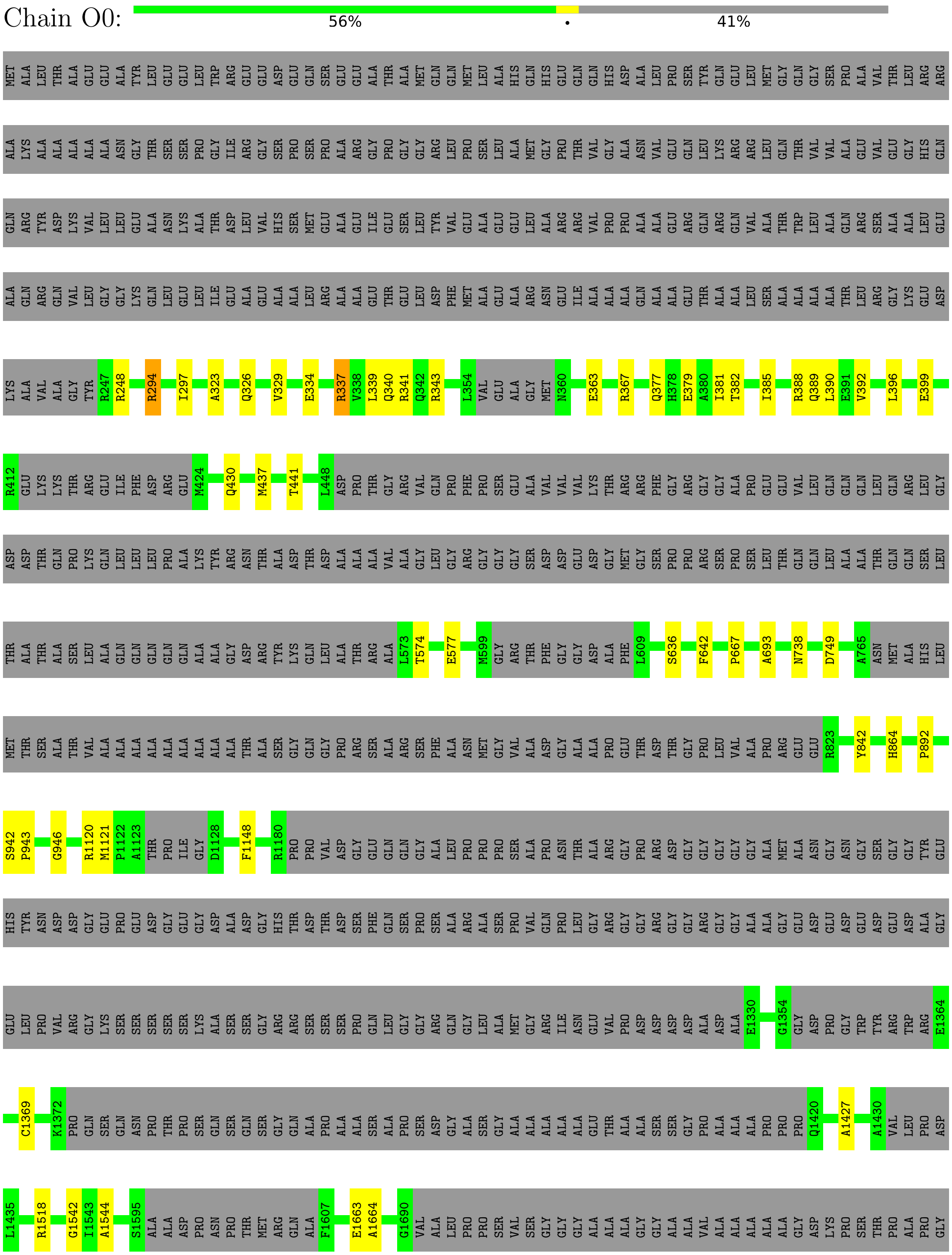
Chain ZO:

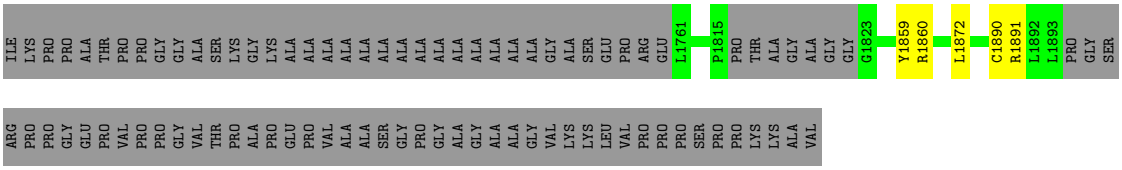




• Molecule 26: FAP74

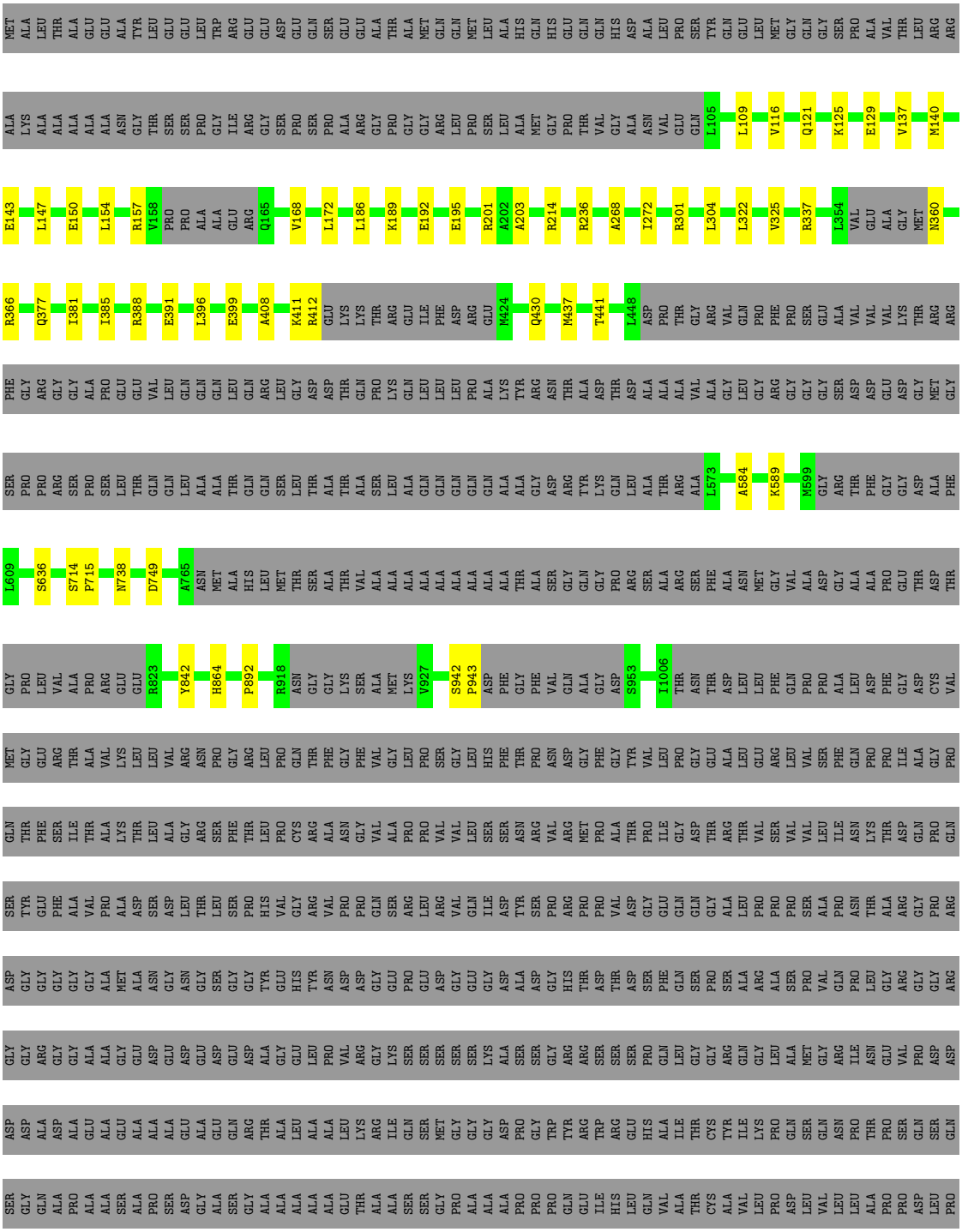
Chain O0: 56% • 41%

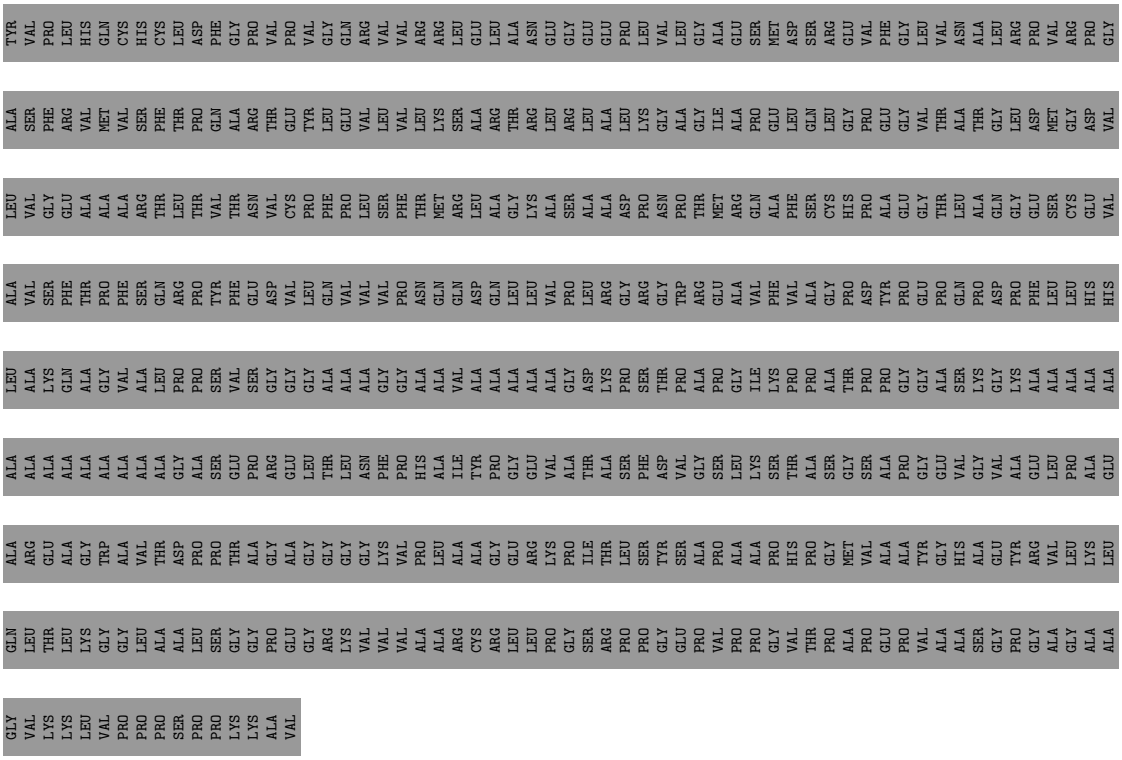




• Molecule 26: FAP74

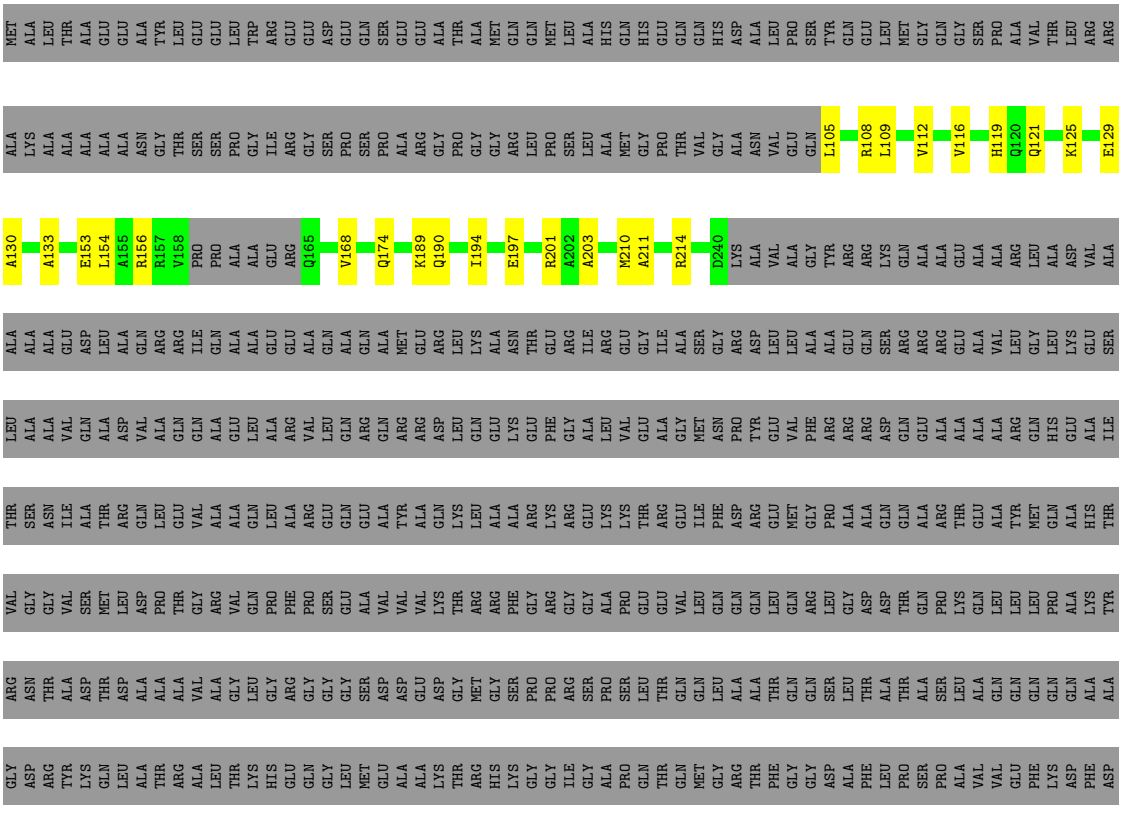
Chain O1: 32% 65%





• Molecule 26: FAP74

Chain O2: 5% 93%



VAL GLY ARG THR VAL SER ALA SER VAL GLN ILE ILE ASN ARG SER TYR LYS LYS ASN THR PHE ARG VAL THR GLY ILE PRO VAL GLU TYR CYS ASP VAL LEU ASP PHE ALA TYR LYS LEU PRO GLY TYR LEU ALA PRO GLY VAL SER GLY GLU VAL VAL ILE SER PHE THR PRO LYS ALA

PRO VAL ASP ILE ASP THR SER LEU GLN LEU LEU ALA ASP THR GLY PRO PHE GLU VAL PRO ILE ARG CYS ARG THR LYS ARG ALA ALA LEU SER VAL SER PRO SER ALA VAL ASP PHE GLY ALA GLY VAL THR LEU GLY GLU CYS ALA THR ARG THR PHE THR ILE ALA ASN ASP GLY ALA

LEU GLU VAL GLU PHE ARG LEU ASP SER PRO GLN LEU SER GLU ASP GLU ARG ALA LEU LEU LYS SER THR ALA ASN MET ALA HIS LEU MET THR SER ALA THR VAL ALA ALA ALA ALA ALA ALA ALA ALA ALA THR ALA SER GLY GLN GLY PRO ARG SER ALA ARG SER PHE ALA ASN MET

GLY VAL ALA ASP GLY ALA ALA PRO GLU THR ASP THR GLY PRO LEU VAL ALA PRO ARG GLU GLU ARG ARG LEU ALA HIS GLY GLY PHE THR VAL PHE PRO CYS VAL GLY HIS LEU LYS GLY TYR SER LYS VAL THR PHE THR VAL THR PHE ALA PRO VAL VAL ALA ALA PRO ALA LYS LEU

LEU LEU HIS ALA SER TYR LYS ALA PRO ALA MET LYS ARG LEU ALA LEU PRO HIS HIS GLU VAL THR LEU THR GLY THR GLY ARG ASP VAL PRO VAL TYR VAL GLU ARG PRO LEU ILE ASP PHE GLN CYS CYS MET LEU GLY HIS LEU TYR ARG ASP VAL LEU VAL VAL ARG ASN GLY GLY

LYS SER ALA MET LYS VAL MET VAL VAL PRO ARG PRO GLU LEU GLU GLY PHE PHE GLU PHE SER PRO ASP PHE GLY PHE VAL GLN ALA GLY ASP SER PHE PRO ILE THR ILE ARG PHE LYS PRO THR PRO ALA LEU LEU HIS ALA CYS ARG LYS HIS VAL VAL GLU PRO GLU GLU GLU GLN

ILE LEU GLU ILE GLY MET ARG LEU SER VAL PRO ASP GLN SER LEU PRO VAL PRO PHE THR LEU ARG ALA GLN ILE THR ASN THR ASP LEU LEU PHE GLN PRO PRO ALA LEU ASP PHE GLY ASP CYS VAL MET GLY GLU ARG THR ALA VAL LYS LEU LEU VAL ARG ASN PRO GLY ARG LEU

PRO GLN THR PHE GLY PHE VAL GLY LEU PRO SER GLY LEU HIS PHE THR PRO ASN ASP GLY PHE GLY TYR VAL LEU PRO GLY GLU ALA LEU GLU ARG LEU VAL SER PHE GLN PRO PRO ILE ALA GLY PRO GLN THR PHE SER ILE THR ALA LYS THR LEU ALA GLY ARG SER PHE THR LEU

PRO CYS ARG ALA ASN GLY VAL ALA PRO PRO VAL VAL LEU SER SER ASN ARG VAL ARG MET PRO ALA THR PRO ILE GLY ASP THR ARG THR VAL SER VAL VAL LEU ILE ASN LYS THR ASP GLN PRO GLN SER TYR GLU PHE ALA VAL PRO ALA ASP SER ASP LEU THR LEU SER PRO HIS

VAL GLY ARG VAL PRO PRO GLN SER ARG LEU ARG VAL GLN ILE ASP TYR SER PRO ARG PRO PRO VAL ASP GLY GLU GLN GLN GLY ALA LEU PRO PRO PRO SER ALA PRO ASN THR ALA ARG GLY PRO ARG ASP GLY GLY GLY GLY GLY ALA MET ALA ASN GLY ASN GLY SER GLY GLY TYR

GLU HIS TYR ASN ASP ASP GLY GLU PRO GLU ASP GLY GLU GLY ASP ALA ASP GLY HIS THR ASP THR ASP SER PHE GLN SER PRO SER ALA ARG ALA SER PRO VAL GLN PRO LEU GLY ARG GLY GLY ARG GLY GLY ARG GLY GLY ALA ALA GLY GLU ASP GLU ASP GLU ASP GLU ASP ALA

GLY GLU LEU PRO VAL ARG GLY LYS SER SER SER SER SER LYS ALA SER SER GLY ARG ARG SER SER SER PRO GLN LEU GLY GLY ARG GLN GLY LEU ALA MET GLY ARG ILE ASN GLU VAL PRO ASP ASP ASP ASP ALA ASP ALA GLU ALA GLU ALA ALA ALA GLU ALA GLU GLN ARG THR

ALA LEU ALA ALA LEU LYS ARG ILE GLN SER MET GLY GLY GLY ASP PRO GLY TRP TYR ARG TRP ARG GLU HIS ALA ILE THR CYS TYR ILE LYS PRO GLN SER GLN ASN PRO THR PRO SER GLN SER GLN SER GLY GLN ALA PRO ALA ALA SER ALA PRO SER ASP GLY ALA SER GLY ALA

ALA ALA ALA ALA GLU THR ALA ALA SER SER GLY PRO ALA ALA ALA PRO PRO PRO GLN GLU ILE HIS LEU GLN VAL ALA THR CYS ALA VAL LEU PRO ASP LEU VAL LEU LEU ALA PRO PRO ASP LEU PRO TYR VAL PRO LEU HIS GLN CYS HIS CYS LEU ASP PHE GLY PRO VAL PRO VAL

GLY GLN ARG VAL VAL ARG ARG LEU GLU LEU ALA ASN GLU GLY GLU GLU PRO LEU VAL LEU GLY ALA GLU SER MET ASP SER ARG GLU VAL PHE GLY LEU VAL ASN ALA LEU ARG PRO VAL ARG PRO GLY ALA SER PHE ARG VAL MET VAL SER PHE THR PRO GLN ALA ARG THR GLU TYR

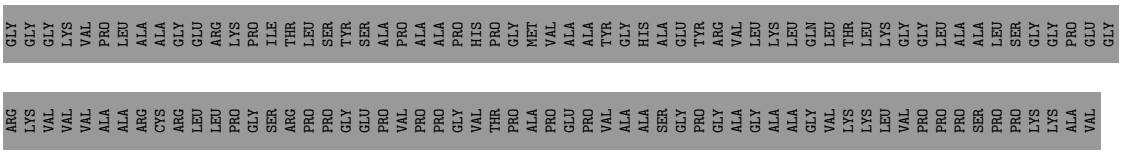
LEU GLU VAL LEU VAL LEU LYS SER ALA ARG THR ARG LEU ARG LEU ALA LEU LYS GLY ALA GLY ILE ALA PRO GLU LEU GLN LEU GLY PRO GLU GLY VAL THR ALA THR GLY LEU ASP MET GLY ASP VAL LEU VAL GLY GLU ALA ALA ALA ARG THR LEU THR VAL THR ASN VAL CYS PRO

PHE PRO LEU SER PHE THR MET ARG LEU ALA GLY LYS ALA SER ALA ALA ASP PRO ASN PRO THR MET ARG GLN ALA PHE SER CYS HIS PRO ALA GLU GLY THR LEU ALA GLN GLY GLU SER CYS GLU VAL ALA VAL SER PHE THR PRO PHE SER GLN ARG PRO TYR PHE GLU ASP VAL LEU

GLN VAL VAL VAL PRO ASN GLN GLN ASP GLN LEU LEU VAL PRO LEU ARG GLY ARG GLY TRP ARG GLU ALA VAL PHE VAL ALA GLY PRO ASP TYR PRO GLU PRO GLN PRO ASP PRO PHE LEU LEU HIS HIS LEU ALA LYS GLN ALA GLY VAL ALA LEU PRO PRO SER VAL SER GLY GLY GLY

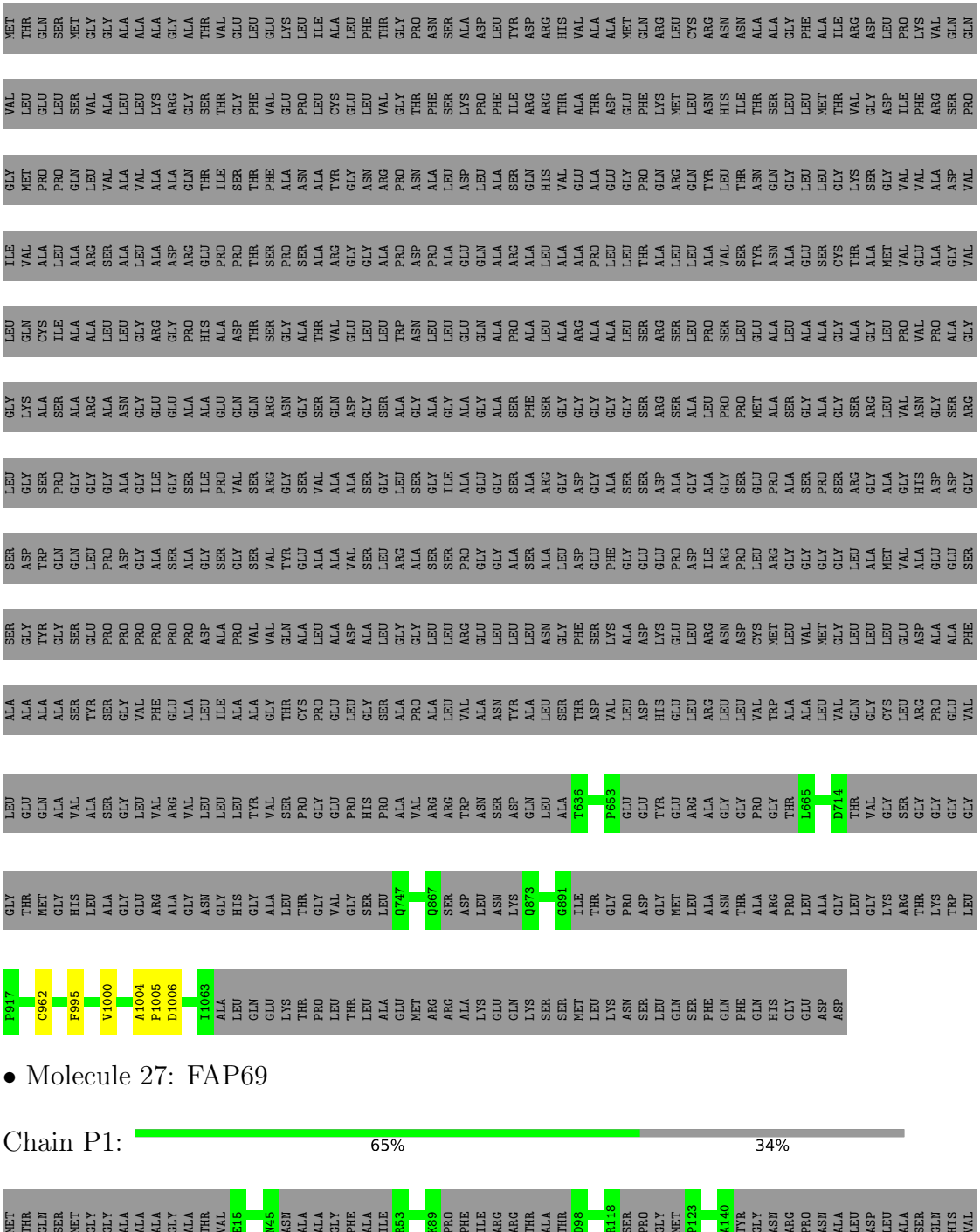
ALA ALA ALA GLY GLY ALA ALA VAL ALA ALA ALA ALA ALA GLY ASP LYS PRO SER THR PRO ALA PRO GLY ILE LYS PRO PRO ALA THR PRO PRO GLY GLY ALA SER LYS GLY LYS ALA ALA ALA ALA ALA ALA ALA ALA ALA ALA ALA ALA ALA ALA GLY ALA SER GLU PRO ARG GLU LEU

THR LEU ASN PHE PRO HIS ALA ILE TYR PRO GLY GLU VAL ALA THR ALA SER PHE ASP VAL GLY SER LEU LYS SER THR ALA SER GLY SER ALA PRO GLY GLU VAL GLY VAL ALA GLU LEU PRO ALA GLU ALA ARG GLU ALA GLY TRP ALA VAL THR ASP PRO PRO THR ALA GLY ALA GLY



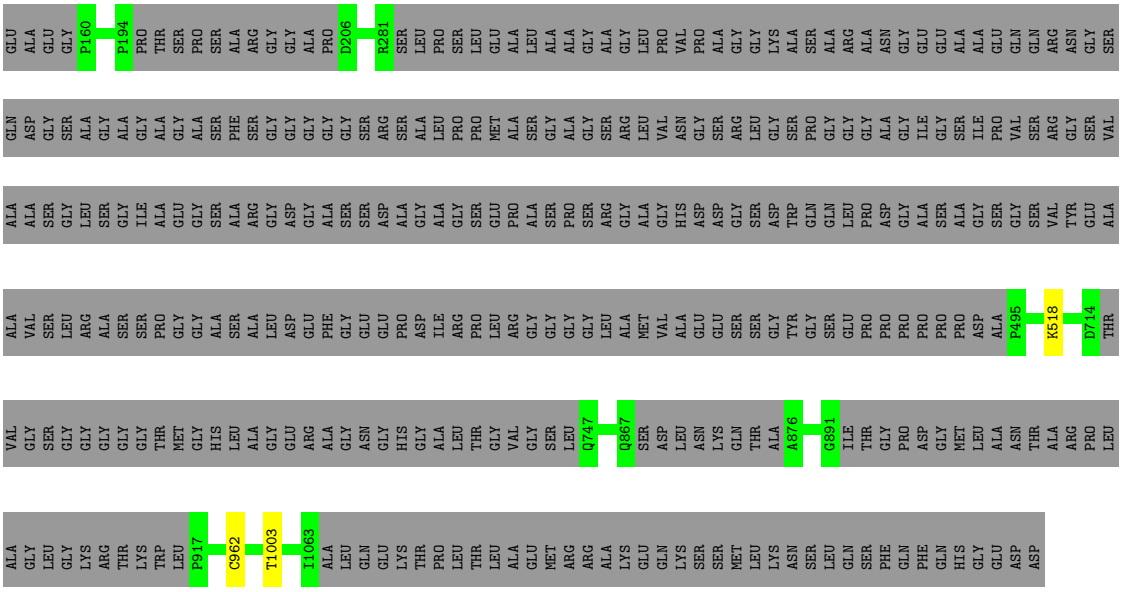
• Molecule 27: FAP69

Chain P0: 32% 68%



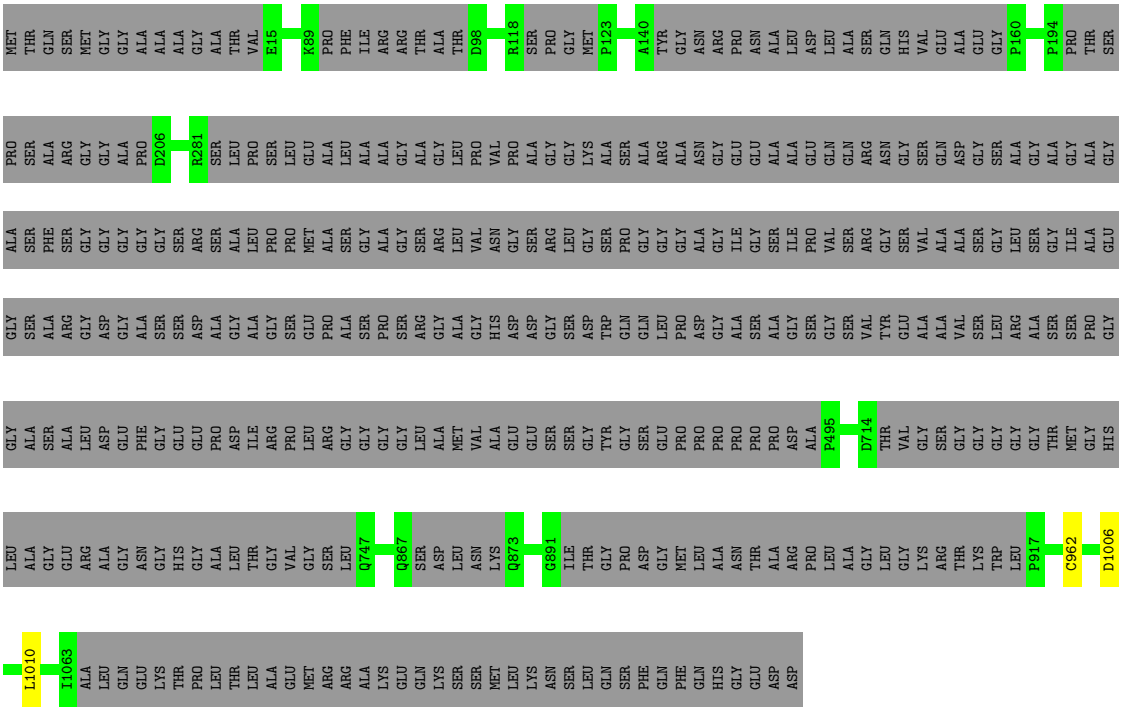
• Molecule 27: FAP69

Chain P1: 65% 34%



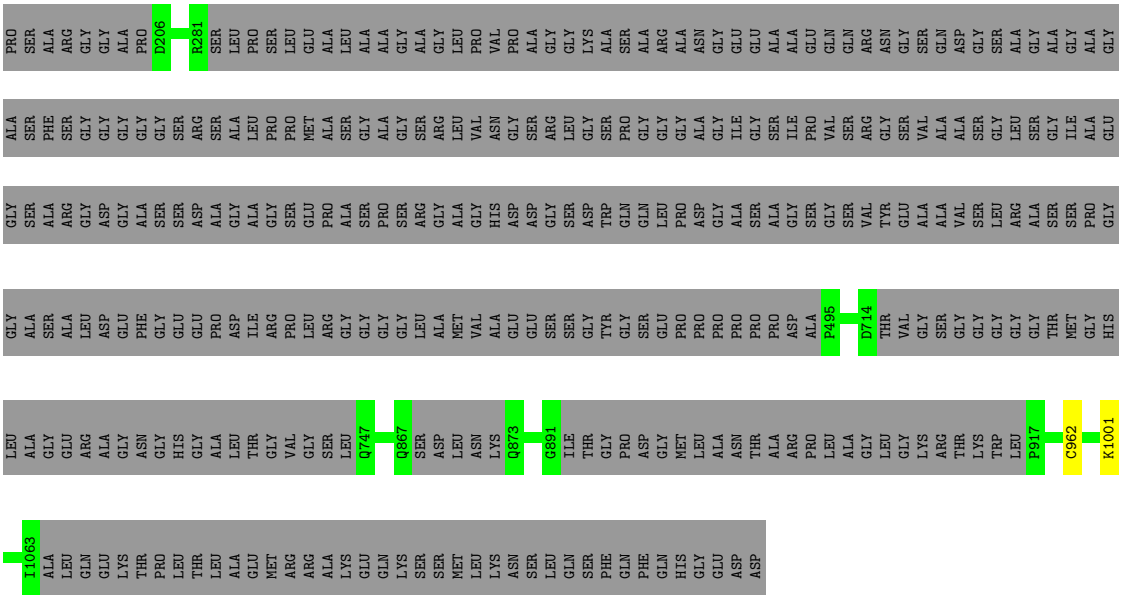
• Molecule 27: FAP69

Chain P2:



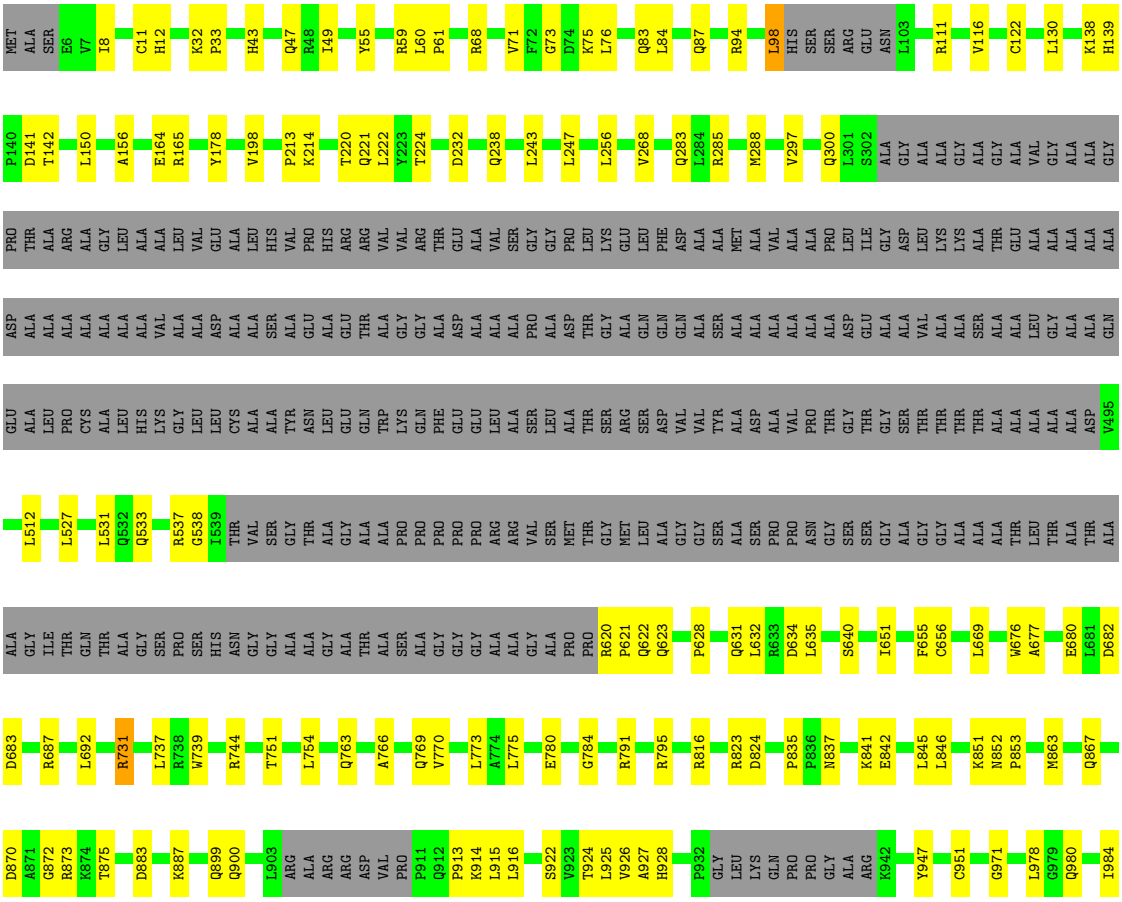
• Molecule 27: FAP69

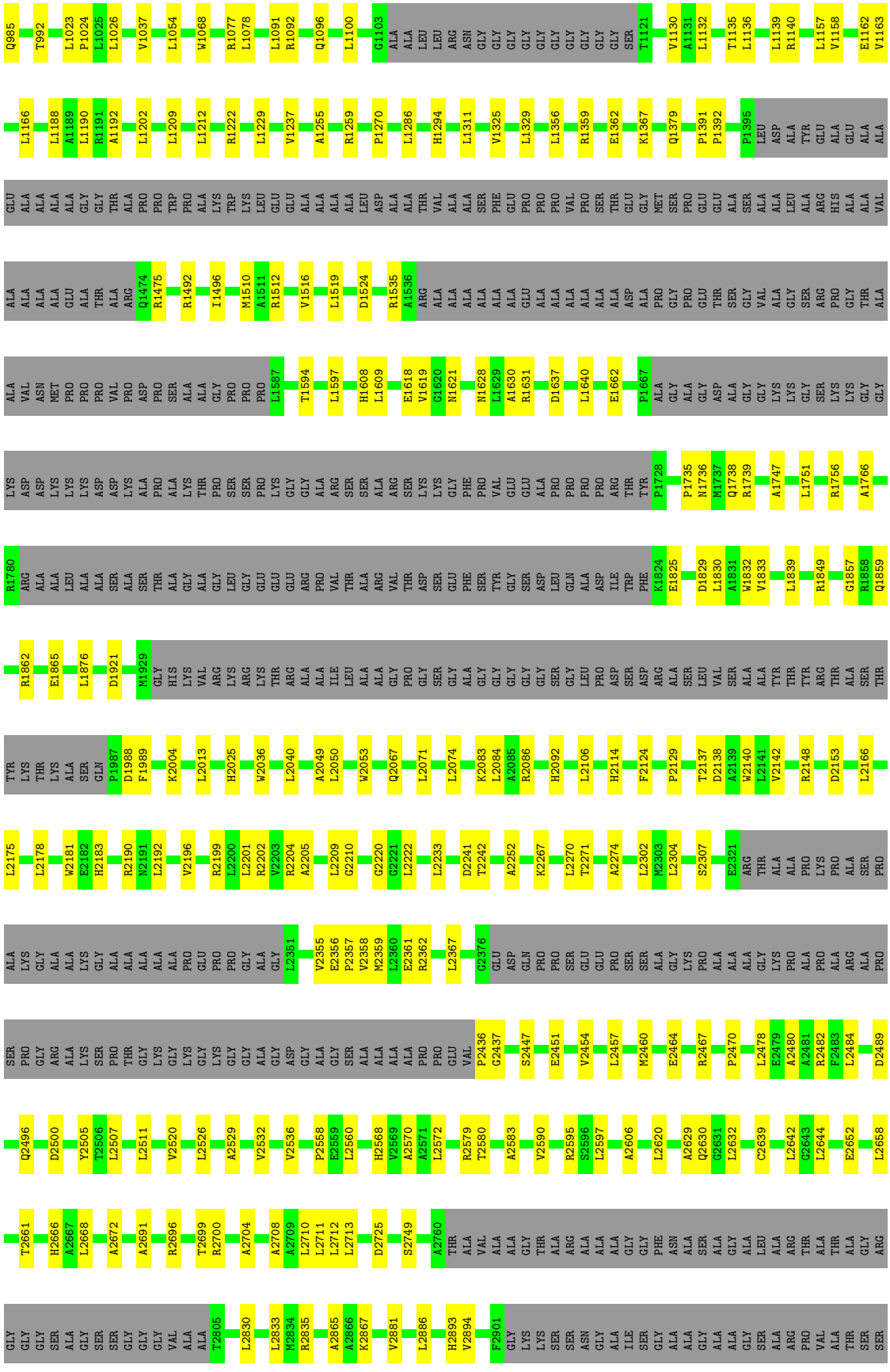
Chain P3:

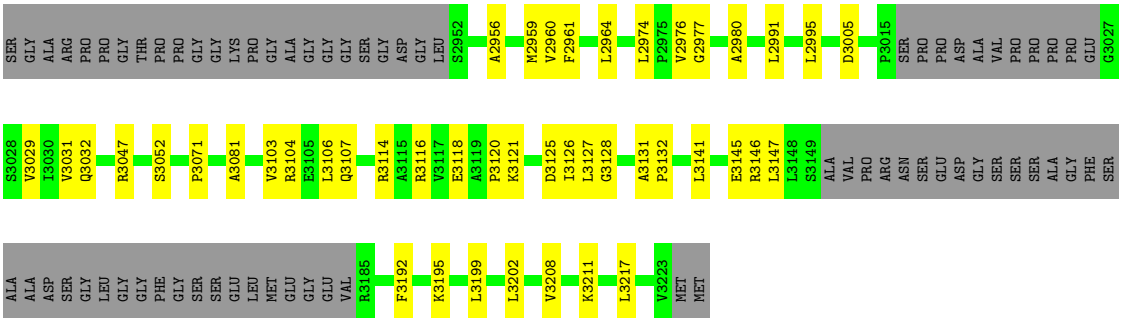


• Molecule 28: FAP54

Chain Q0:

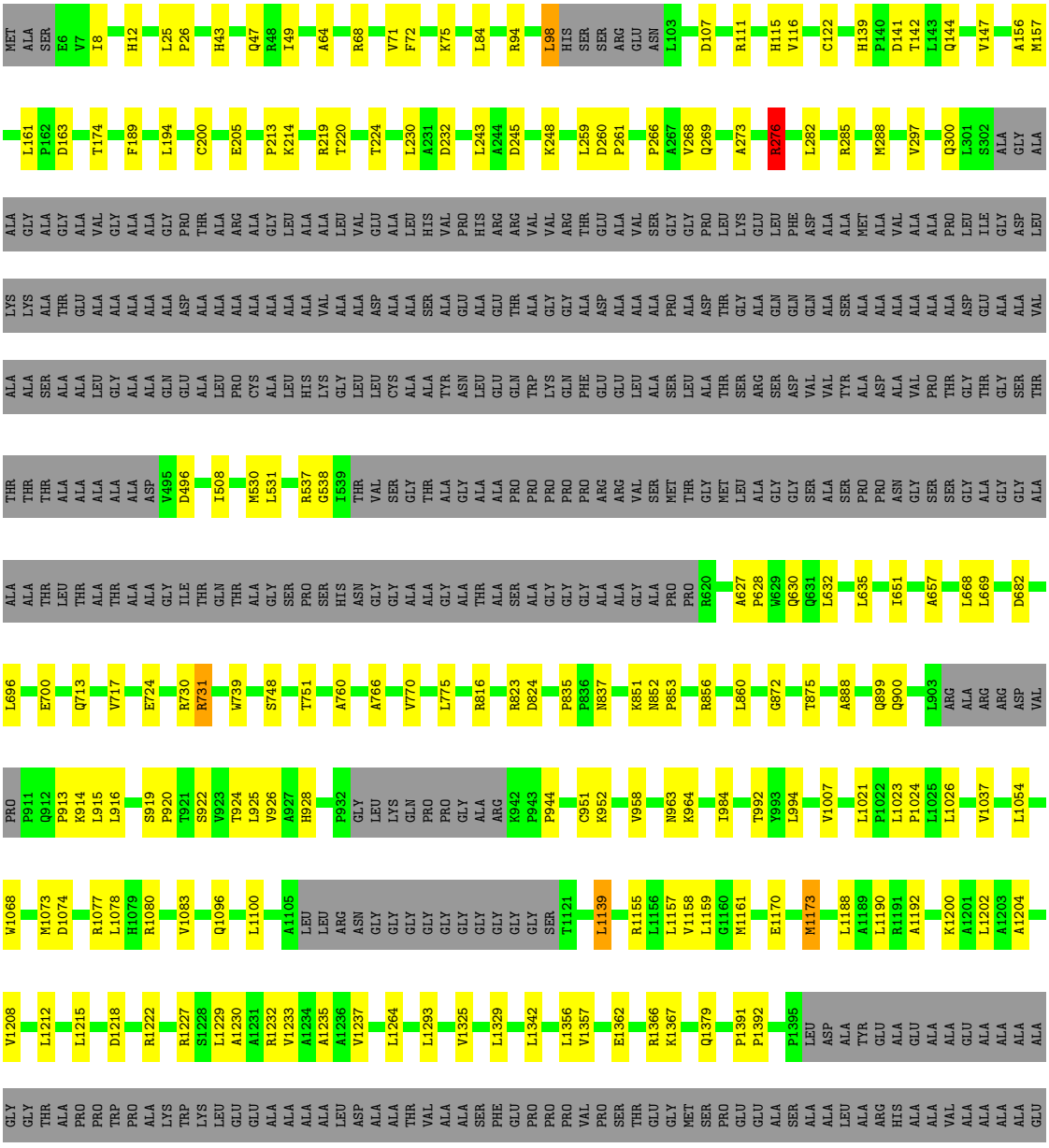


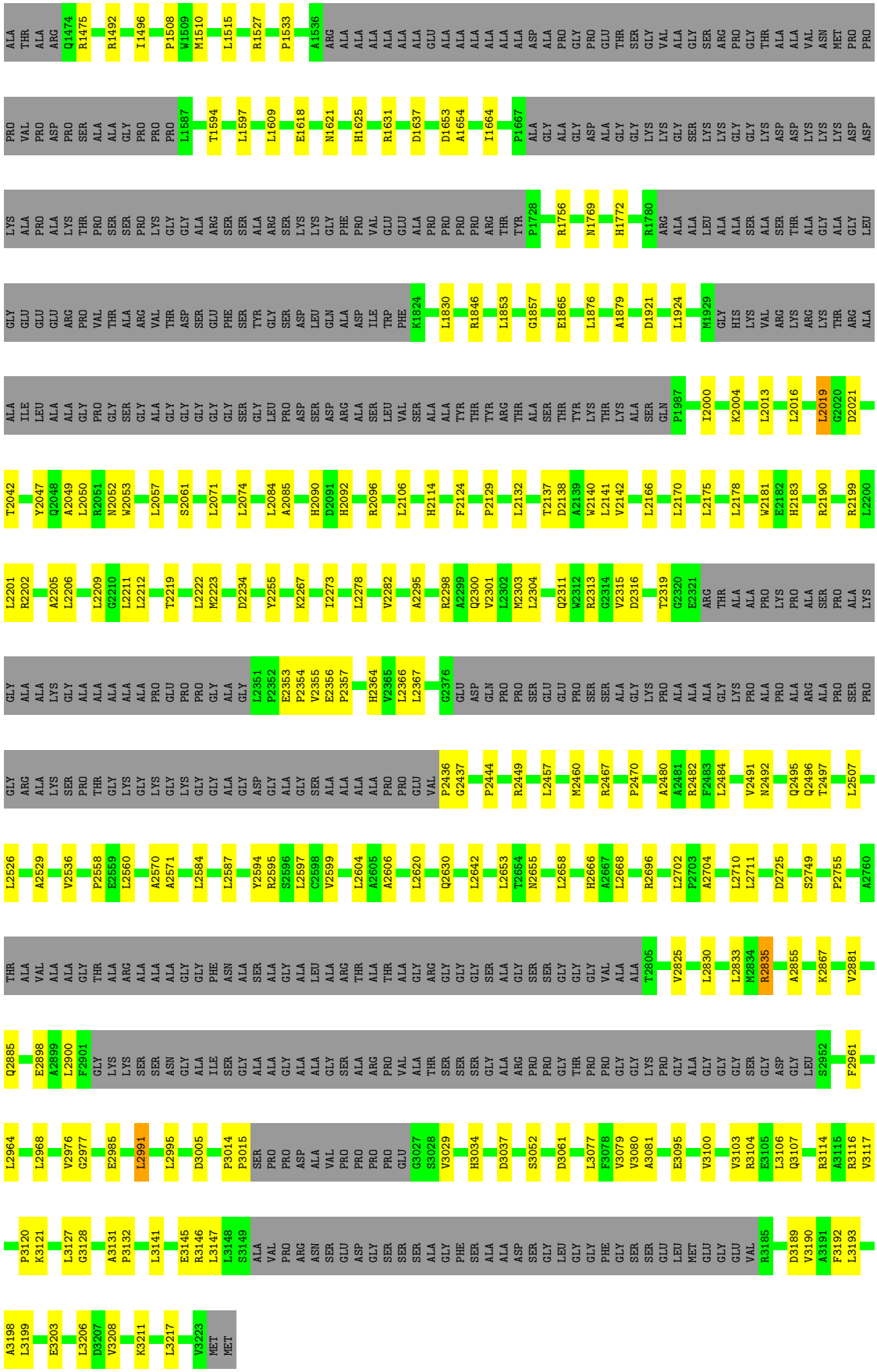

Q985 T992 L1023 P1024 L1025 L1026 V1037 L1054 W1068 R1077 L1078 L1091 R1092 Q1096 L1100 G1103 T1121 V1130 A1131 L1132 T1135 L1136 L1139 R1140 L1157 V1158 E1162 V1163
L1166 L1188 A1189 L1190 R1191 A1192 L1202 L1209 L1212 R1222 L1229 V1237 A1255 R1259 P1270 L1286 H1294 L1311 V1325 L1329 L1356 R1359 E1362 K1367 Q1379 P1391 P1392 P1395
GLU ALA ALA ALA ALA GLY GLY THR ALA PRO PRO TRP PRO ALA LYS TRP LYS LEU GLU GLU ALA ALA ALA LEU ASP PRO PRO SER ALA THR GLU GLY MET SER PRO GLU GLU ALA SER ALA ALA LEU ALA ALA ARG HIS ALA GLU ALA ALA VAL
ALA ALA ALA GLU ALA THR ALA ARG Q1474 R1475 R1492 I1496 M1510 A1511 R1512 V1516 L1519 D1524 R1535 A1536 ARG ALA ALA ALA ALA GLU ALA ALA ALA ALA ASP ALA PRO GLY PRO GLU THR SER GLY VAL ALA ALA GLY SER ARG PRO GLY THR ALA
ALA VAL ASN MET PRO PRO PRO VAL PRO ASP PRO SER ALA ALA GLY PRO PRO PRO L1587 T1594 L1597 H1608 L1609 E1618 V1619 G1620 N1621 N1628 L1629 A1630 R1631 D1637 L1640 E1662 P1667 ALA GLY ALA GLY ASP ALA GLY GLY LYS LYS GLY SER LYS LYS GLY GLY
LYS ASP ASP LYS LYS LYS ASP ASP LYS ALA PRO ALA LYS THR PRO SER SER PRO LYS GLY GLY ALA ARG SER SER ALA ARG VAL THR ALA ARG SER LYS LYS GLY PHE PRO VAL GLU GLU ALA PRO PRO PRO ARG THR TYR P1728 P1735 N1736 M1737 Q1738 R1739 A1747 L1751 R1756 A1766
R1780 ARG ALA ALA LEU ALA ALA SER ALA SER THR ALA GLY GLU GLU GLU ARG PRO VAL THR ALA ARG VAL THR ASP SER GLU PHE SER TYR GLY SER ASP LEU GLN ALA ASP ILE TRP PHE K1824 E1825 D1829 L1830 A1831 W1832 V1833 L1839 R1849 G1857 R1858 Q1859
R1862 E1865 L1876 D1921 M1929 GLY HIS LYS VAL ARG LYS ARG THR ARG ALA ALA ILE LEU ALA ALA GLY PRO GLY SER GLY ALA GLY GLY SER GLY LEU PRO ASP SER ASP ARG ALA SER LEU VAL SER ALA ALA TYR THR TYR ARG THR ALA SER THR
TYR LYS THR LYS ALA SER GLN P1987 D1988 F1989 K2004 L2013 H2025 W2036 L2040 A2049 L2050 W2053 Q2067 L2071 L2074 K2083 L2084 A2085 R2086 H2092 L2106 H2114 F2124 P2129 T2137 D2138 A2139 W2140 K2141 V2142 R2148 D2153 L2166
L2175 L2178 W2181 E2182 H2183 R2190 N2191 L2192 V2196 R2199 L2200 L2201 R2202 V2203 R2204 A2205 L2209 G2210 G2220 G2221 L2222 L2233 D2241 T2242 A2252 K2267 L2270 T2271 A2274 L2302 M2303 L2304 S2307 E2321 ARG THR ALA ALA PRO LYS PRO ALA SER PRO
ALA LYS GLY ALA ALA LYS GLY ALA ALA ALA PRO GLU PRO PRO GLY ALA GLY L2351 V2355 E2356 P2357 V2358 M2359 L2360 E2361 R2362 L2367 G2376 GLU ASP GLN PRO PRO SER GLU GLU PRO SER SER ALA GLY LYS PRO ALA ALA PRO ALA ARG ALA PRO
SER PRO GLY ARG ALA LYS SER PRO THR GLY LYS GLY LYS GLY GLY LYS ALA GLY ASP GLY ALA ALA PRO PRO GLU VAL P2436 G2437 S2447 E2451 V2454 L2457 M2460 E2464 R2467 P2470 L2478 E2479 A2480 A2481 R2482 F2483 L2484 D2489
Q2496 D2500 Y2505 T2506 L2507 L2511 V2520 L2526 A2529 V2532 V2536 P2558 E2559 L2560 H2568 V2569 A2570 A2571 L2572 R2579 T2580 A2583 V2590 R2595 S2596 L2597 A2606 L2620 A2629 Q2630 G2631 L2632 C2639 L2642 G2643 L2644 E2652 L2658
T2661 H2666 A2667 L2668 A2672 A2691 R2696 T2699 R2700 A2704 A2708 A2709 L2710 L2711 L2712 L2713 D2725 S2749 A2760 THR ALA VAL ALA ALA GLY THR ALA ARG ALA ALA ALA GLY GLY PHE ASN ALA SER ALA GLY ALA LEU ALA ARG THR ALA THR ALA ALA GLY ARG
GLY GLY GLY SER ALA GLY GLY VAL ALA ALA T2805 L2830 L2833 M2834 R2835 A2865 A2866 K2867 V2881 L2886 H2893 V2894 F2901 GLY LYS LYS SER SER ASN GLY ALA ILE SER GLY ALA ALA GLY ALA ALA GLY SER ALA ARG PRO VAL ALA THR SER SER



• Molecule 28: FAP54

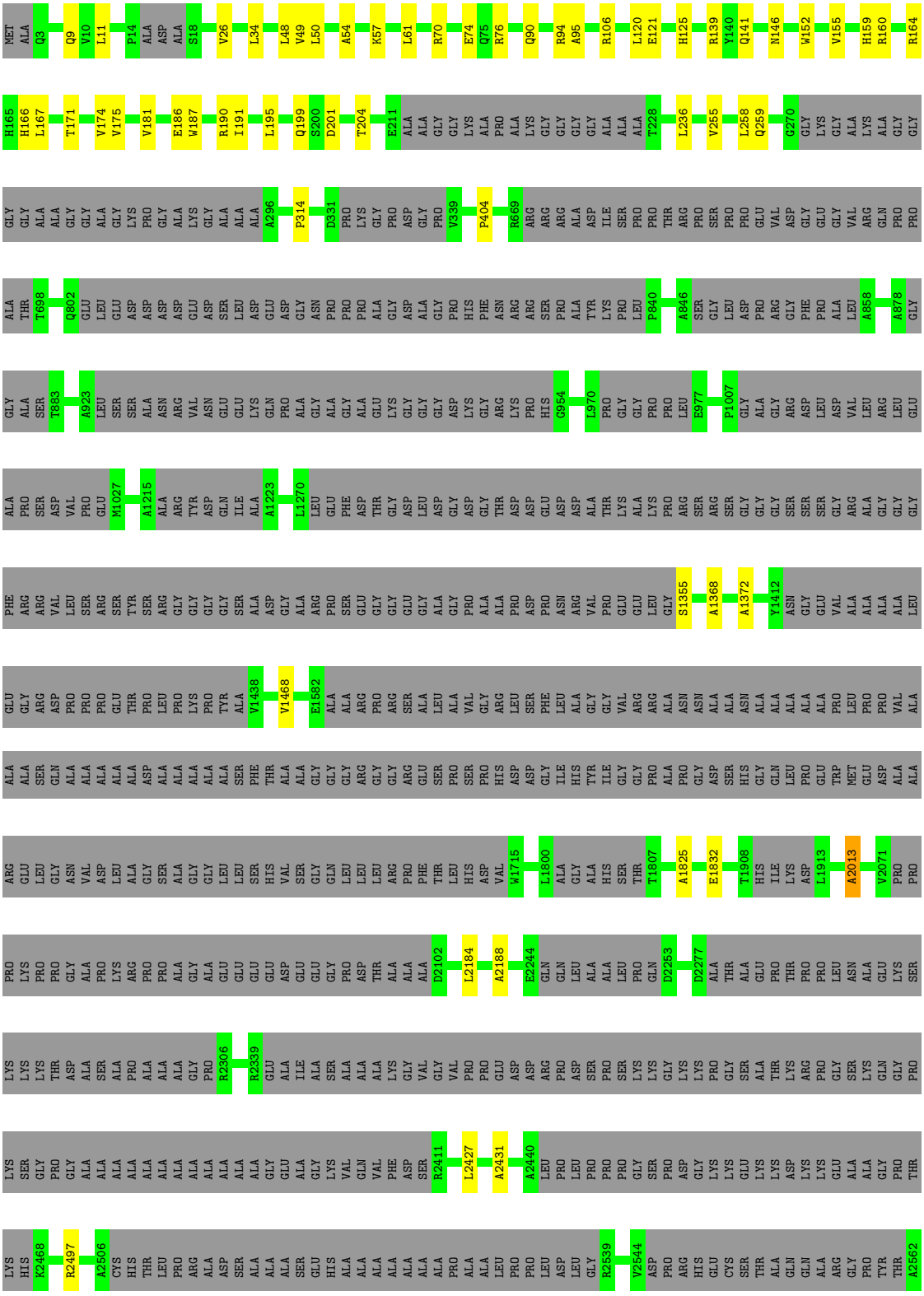
Chain Q1:

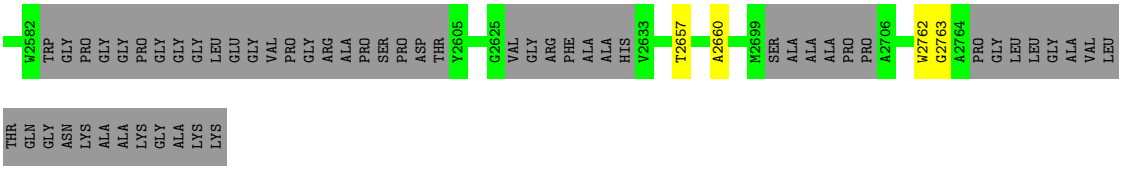




• Molecule 29: FAP46

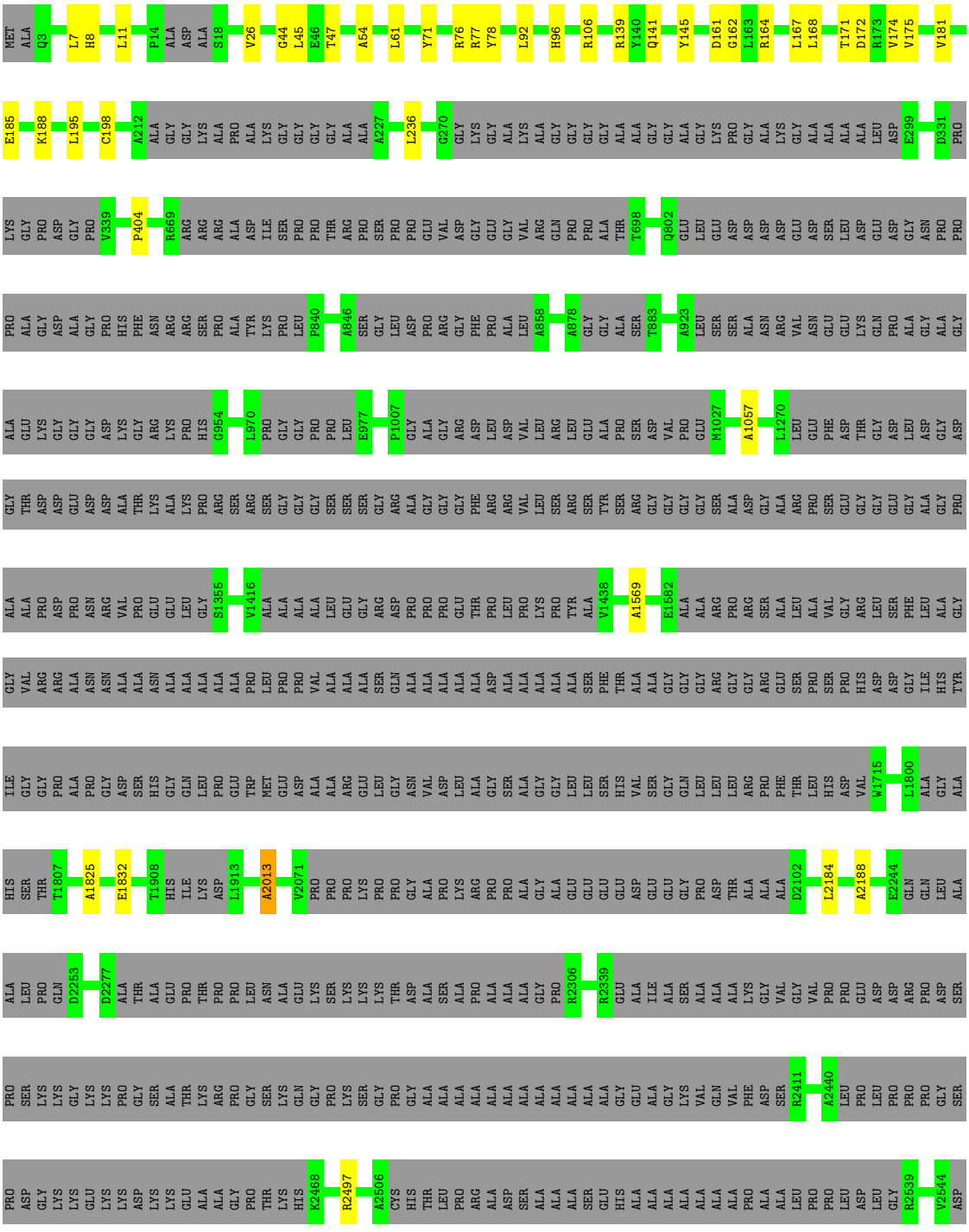
Chain R0:

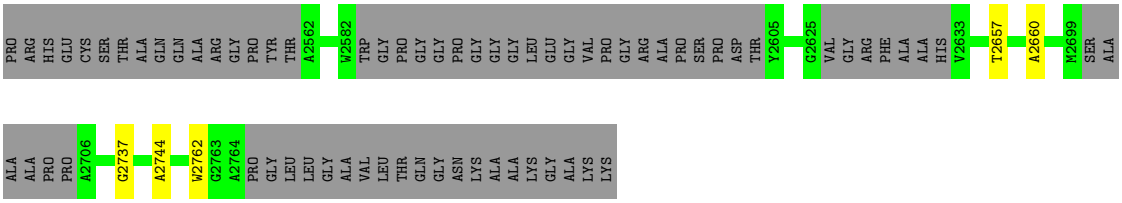




• Molecule 29: FAP46

Chain R1:



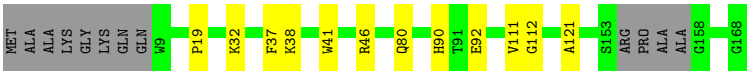


• Molecule 30: FAP275

Chain S0:

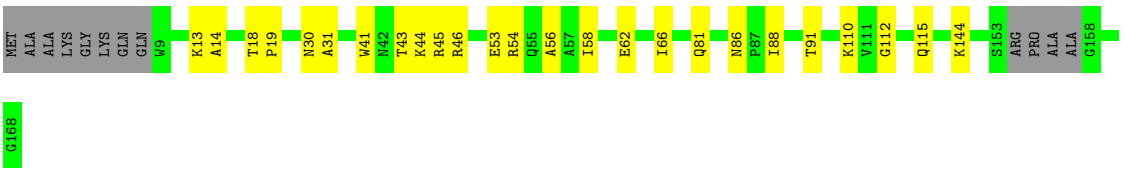
• Molecule 30: FAP275

Chain S1:



• Molecule 30: FAP275

Chain S2:

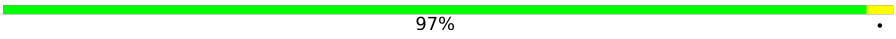


• Molecule 30: FAP275

Chain S3:

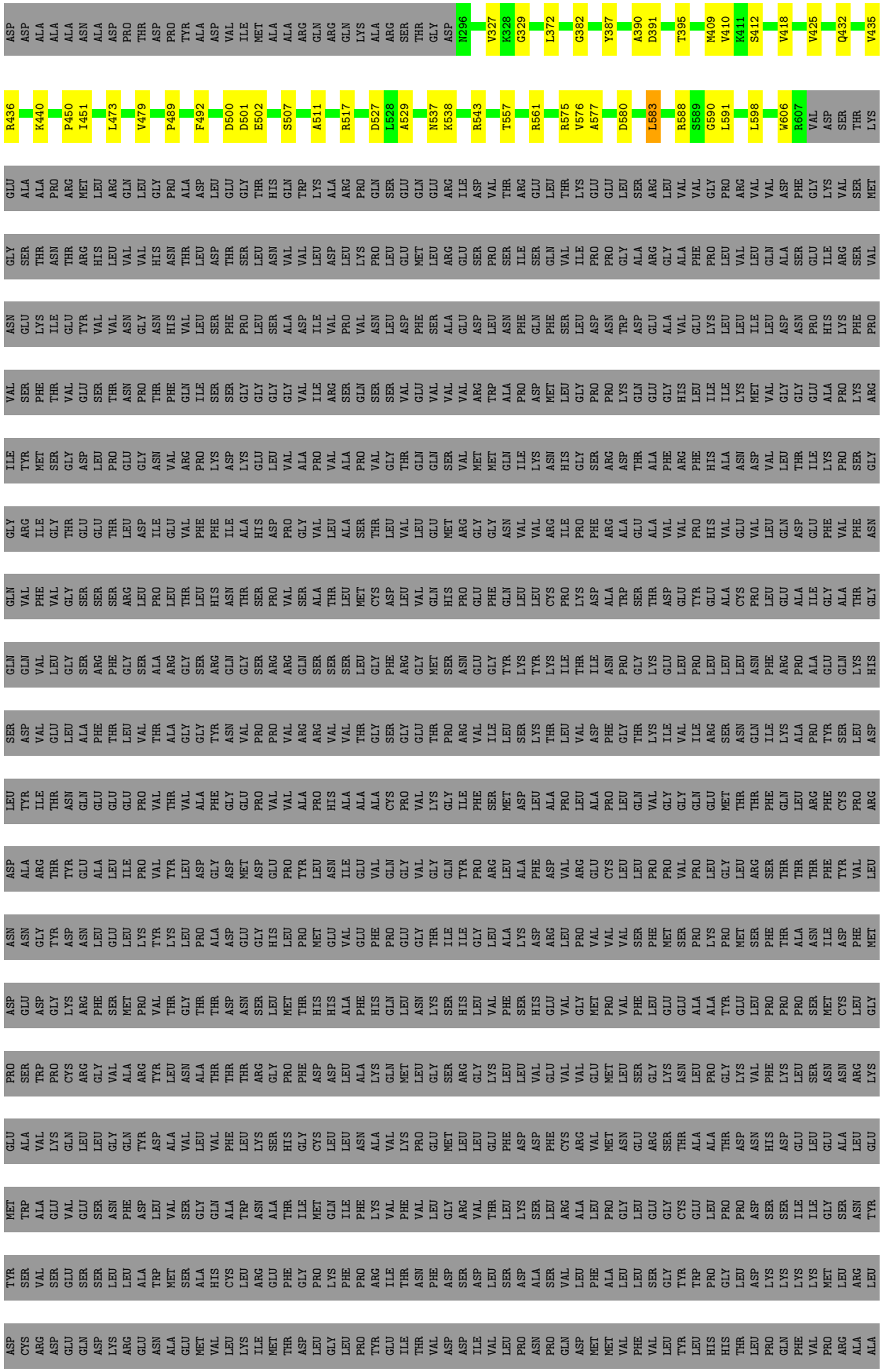
• Molecule 31: Unknown protein

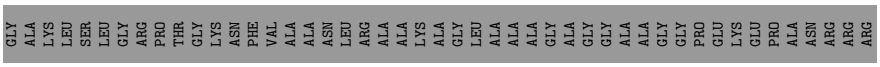
Chain S5:



• Molecule 32: FAP47

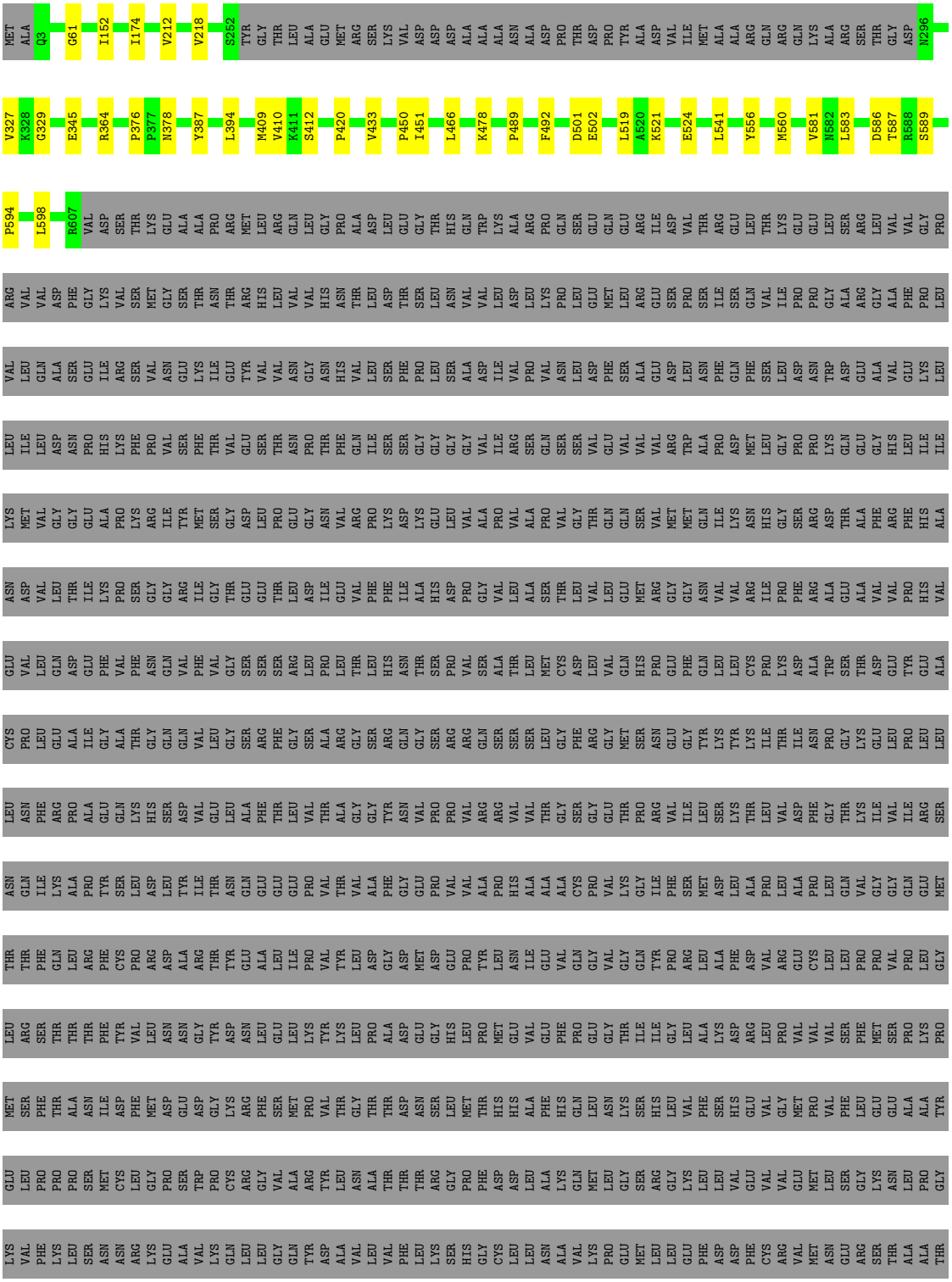
Chain T0:

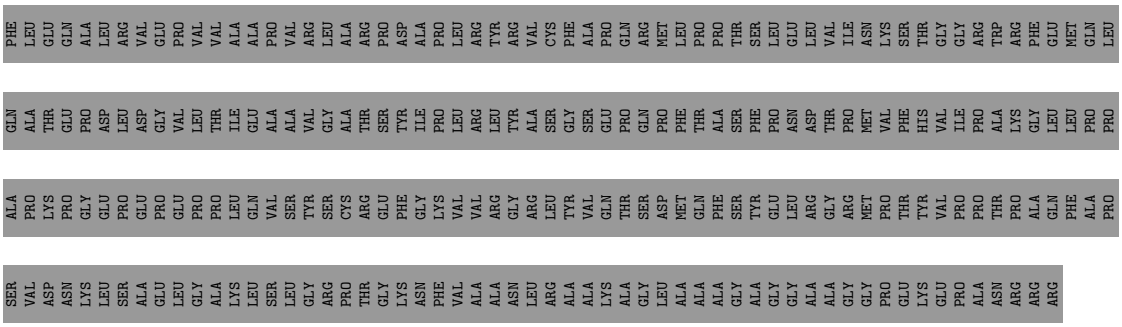

ASP ASP ALA ALA ALA ASN ALA ASP PRO THR ASP PRO TYR ALA ASP VAL ILE MET ALA ALA ARG GLN ARG GLN LYS ALA ARG SER THR GLY ASP N296 V327 K328 G329 L372 G382 Y387 A390 D391 T395 M409 V410 K411 S412 V418 V425 Q432 V435
R436 K440 P450 I451 L473 V479 P489 F492 D500 D501 E502 S507 A511 R517 D527 L528 A529 N537 K538 R543 T557 R561 R575 V576 A577 D580 L583 R588 S589 G590 L591 L598 W606 R607 VAL ASP SER THR LYS
GLU ALA ALA PRO ARG MET LEU ARG GLN LEU GLY PRO ALA ASP LEU GLU GLY THR HIS GLN TRP LYS ALA ARG PRO GLN SER GLU GLN GLU ARG ILE ASP VAL THR ARG GLU LEU THR LYS GLU GLU LEU SER ARG ASP VAL VAL GLY PRO LEU ASP PHE GLY LYS VAL SER MET
GLY SER THR ASN THR ARG HIS HIS LEU VAL VAL HIS ASN THR LEU ASP THR SER LEU ASN VAL VAL PRO LEU LYS PRO LEU GLU MET LEU ARG GLU SER PRO SER ILE SER GLN VAL ILE PRO PRO GLY ALA ARG GLY ALA PHE PRO LEU VAL LEU GLN GLN ALA SER GLU ILE ARG SER VAL
ASN GLU LYS ILE GLU TYR VAL VAL ASN GLY ASN HIS VAL LEU SER PHE PRO LEU SER ALA ASP ILE VAL PRO VAL ASN LEU ASP PHE SER ALA GLU GLU ASP LEU SER GLN PHE SER LEU ASP ASN TRP ASP GLU ALA VAL GLU LYS LEU LEU LEU ILE ILE LYS MET VAL GLY GLY PRO ASP ASN PRO HIS LYS PHE PRO
VAL SER PHE THR VAL GLU SER THR ASN PRO THR PHE GLN ILE SER SER GLY GLY GLY VAL ILE ARG SER GLN SER SER VAL GLU GLU VAL VAL ARG TRP ALA PRO ASP MET LEU GLY PRO PRO LYS GLN GLU GLY HIS LEU ILE ILE LYS MET VAL GLY GLY GLU ALA PRO LYS PHE SER GLY
ILE TYR MET SER GLY ASP LEU PRO GLU GLY GLN GLN SER VAL MET MET GLN ILE LYS ASN HIS GLY SER ARG ASP THR ALA PHE ARG PHE HIS ALA ASN ASP VAL LEU THR ILE LYS PRO SER GLY
GLY ARG ILE GLY THR GLU GLU THR LEU ASP ILE GLU VAL PHE PHE ILE ALA HIS ASP PRO GLY VAL LEU LEU ALA SER THR LEU VAL LEU GLU MET ARG GLY GLY ASN VAL VAL ARG ILE PRO PHE ARG ALA GLU ALA VAL VAL PRO HIS VAL GLU VAL LEU GLN LEU ASP GLU PHE VAL PHE ASN
GLN VAL PHE VAL GLY SER SER ARG LEU PRO LEU THR LEU HIS ASN THR SER PRO VAL SER ALA THR LEU MET CYS ASP LEU LYS VAL GLN VAL LEU LEU CYS PRO LYS ASP ALA TRP SER THR ASP GLU TYR GLU ALA CYS PRO LEU GLU LEU GLU ALA ILE GLY ALA THR GLY
GLN GLN VAL LEU GLY SER ARG PHE GLY SER ALA ARG GLY SER ARG ARG GLN SER SER SER LEU GLY PHE ARG GLY MET SER ASN GLU GLY GLY TYR LYS TYR LYS ILE THR ILE ASN PRO GLY LYS GLU LEU PRO LEU LEU ASN PHE ARG PRO ALA GLU GLN LYS HIS
SER ASP VAL GLU LEU ALA PHE THR LEU VAL THR ALA GLY GLY TYR ASN VAL PRO PRO VAL ARG ARG VAL VAL THR GLY SER GLY GLU THR PRO ARG VAL ILE LEU LEU SER LYS THR LEU VAL ASP PHE GLY THR LYS ILE VAL ILE ARG SER ASN GLN ILE LYS ALA PRO TYR SER LEU ASP
LEU TYR ILE THR ASN GLN GLU GLU GLU PRO VAL THR GLY ILE PHE SER MET ASP LEU ALA PRO LEU ALA PRO LEU GLN VAL GLY GLY GLN GLU MET THR THR PHE GLN LEU ARG PHE CYS PRO ARG
ASP ALA ARG THR TYR GLU ALA LEU ILE PRO VAL TYR LEU ASP GLY ASP MET ASP GLU PRO TYR LEU ASN ILE GLU VAL GLN LEU PRO VAL GLY VAL GLY GLN TYR ILE TYR PRO ARG VAL ALA LEU GLU CYS LEU LEU PRO PRO VAL PRO LEU GLY LEU ARG SER THR THR PHE TYR VAL LEU
ASN ASN GLY TYR ASP ASN LEU LYS LEU PRO ALA ASP GLU GLY HIS LEU PRO MET GLU VAL GLU PHE PRO GLU GLY GLY THR ILE ILE GLY LEU ALA LYS ASP ARG LEU PRO VAL VAL SER PHE MET SER PRO LYS PRO MET SER PHE THR THR ALA ASN ILE ASP PHE MET
ASP GLU ASP GLY LYS ARG PHE SER THR HIS GLN LEU ASN LYS SER HIS LEU VAL PHE SER HIS GLU VAL GLY MET PRO VAL PHE LEU GLU GLU GLU ALA ALA TYR GLU LEU PRO PRO SER GLY LYS ASN LEU PRO GLY LYS VAL PHE PRO PRO LEU SER ASN ARG LYS
PRO SER TRP PRO CYS ARG GLY VAL ALA ARG TYR LEU GLY SER ARG GLY LYS LEU VAL GLU VAL VAL GLU MET LEU SER GLY LYS ASN LEU PRO GLY LYS VAL PHE PHE LYS HIS LEU SER ASN ASN ARG LYS
GLU ALA VAL LYS GLN LEU TYR ASP ALA ALA VAL LEU GLU PHE ASP ASP PHE CYS ARG VAL MET ASN GLU ARG SER THR ALA ASP ASN HIS ASP GLU LEU LEU GLU GLU
MET TRP ALA GLU VAL GLU SER ASN PHE LYS VAL PHE VAL LEU GLY ARG VAL THR LEU LYS SER LEU ARG LEU GLU GLY GLY CYS GLU LEU PRO PRO ASP SER SER ILE ILE GLY SER ASN TYR
TYR SER VAL SER GLU SER SER LEU LEU ARG GLU PHE GLY PRO LYS PHE PRO ARG ILE THR ASN PHE ASP SER ASP LEU SER ALA SER ASP VAL LEU PHE ALA LEU LEU SER GLY TYR TRP PRO GLY LEU ASP LYS LYS MET LYS ARG LEU
ASP CYS ARG ASP LYS ARG ASP ILE THR VAL ASP ASP ILE VAL LEU ILE LEU PRO ASN PRO GLN ASP MET MET VAL PHE VAL LEU TYR TYR LEU HIS HIS THR LEU PRO PRO GLN PHE VAL PRO ARG ALA ALA



• Molecule 32: FAP47

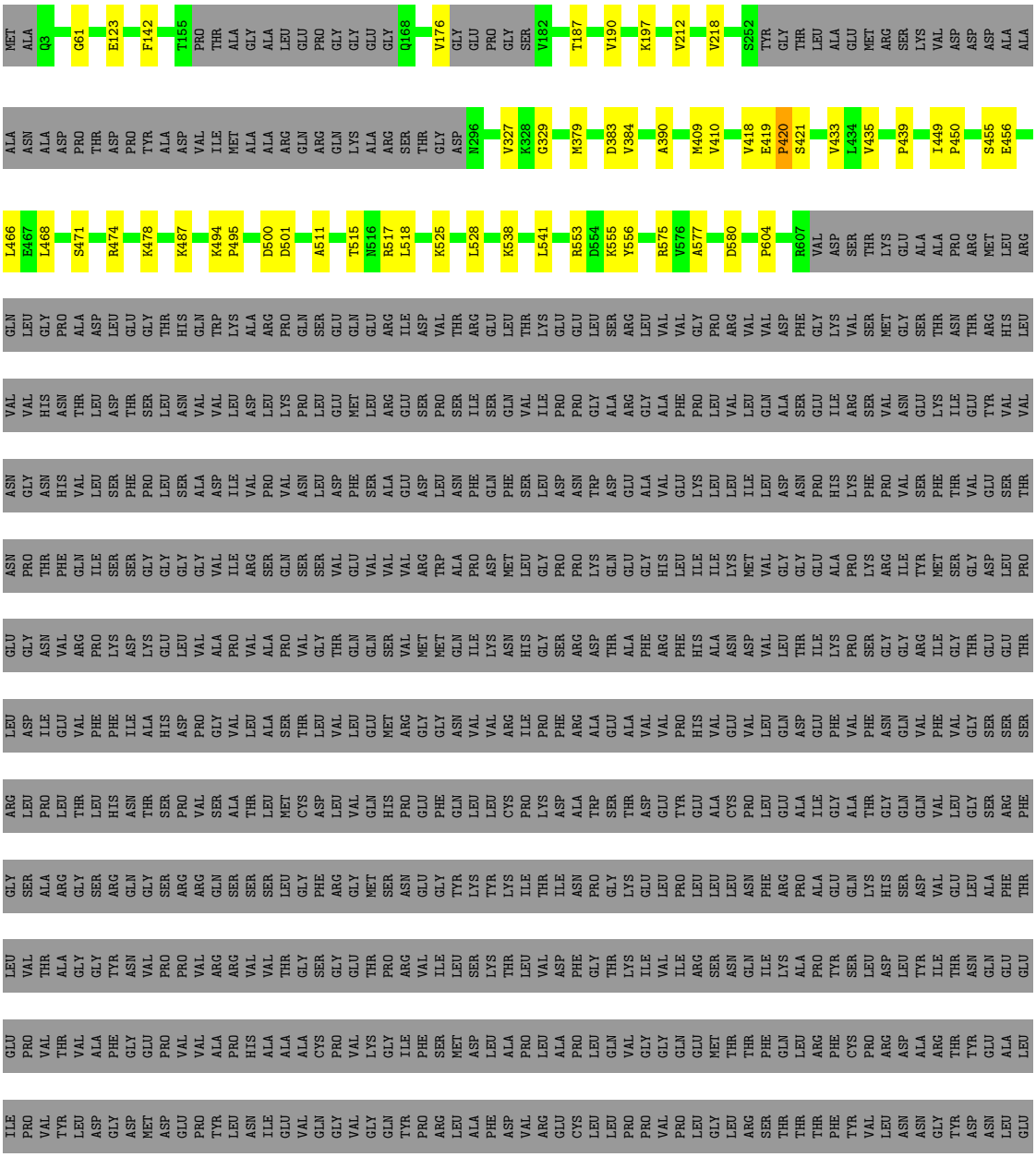
Chain T1:





• Molecule 32: FAP47

Chain T2: 17% 81%



LEU LYS TYR LYS LEU PRO ALA ASP GLU GLY HIS LEU PRO MET GLU VAL GLU PHE PRO GLU GLY THR ILE ILE GLY LEU ALA LYS ASP ARG LEU PRO VAL VAL SER PHE MET SER PRO LYS PRO MET SER PHE THR ALA ASN ILE ASP PHE MET ASP GLU ASP GLY LYS ARG PHE SER

MET PRO VAL THR GLY THR THR ASP ASN SER LEU MET THR HIS HIS ALA PHE HIS GLN LEU ASN LYS SER HIS LEU VAL PHE SER HIS GLU VAL GLY MET PRO VAL PHE LEU GLU GLU ALA ALA TYR GLU LEU PRO PRO PRO SER MET CYS LEU GLY PRO SER TRP PRO CYS ARG GLY VAL

ALA ARG TYR LEU ASN ALA THR THR THR ARG GLY PRO PHE ASP ASP LEU ALA LYS GLN MET LEU GLY SER ARG GLY LYS LEU LEU VAL GLU MET LEU SER GLY LYS ASN LEU PRO GLY LYS VAL PHE LYS LEU SER ASN ASP ARG LYS GLU ALA VAL LYS GLN LEU LEU GLY

GLN TYR ASP ALA VAL LEU VAL PHE LEU LYS SER HIS GLY CYS LEU LEU ASN ALA VAL LYS PRO GLU MET LEU LEU GLU PHE ASP ASP PHE CYS ARG VAL GLU ALA THR ASP ASN ASP SER GLU GLU ALA LEU GLU MET TRP ALA GLU VAL SER GLU

PHE ASP LEU VAL SER GLY GLN ALA TRP ASN ALA THR ILE MET GLN ILE PHE LYS VAL PHE VAL LEU GLY ARG VAL THR LEU LYS SER LEU ARG ALA LEU PRO VAL LEU LEU GLY SER VAL SER GLU

LEU ALA TRP MET SER ALA HIS CYS LEU ARG GLU PHE PRO ARG ILE THR ASN PHE ASP SER ASP LEU SER ASP ALA SER VAL LEU PRO PRO ASP SER SER ILE ILE GLY SER ASP ASP LYS LYS LYS MET LEU ARG LEU ASP CYS ARG ASP GLU

ARG GLU ASN ALA GLU MET VAL LEU LYS ILE MET THR ASP LEU GLY LEU PRO TYR GLU ILE VAL LEU PRO ASN PRO GLN ASP MET MET VAL PHE VAL LEU TYR LEU HIS HIS THR LEU PRO GLN PHE VAL PRO ARG ALA ALA VAL ASP PHE ALA CYS LYS LEU LEU

GLU THR GLN CYS LYS GLU LEU GLU LEU THR ASN PRO SER LYS LYS ALA ILE SER TYR SER ALA ARG LEU GLU GLY HIS ARG ASP PHE SER ILE GLU SER SER SER ILE ARG ILE GLU PRO LYS ALA SER ALA LYS LEU LEU ILE GLU PHE SER ALA LYS LYS LYS LEU

ARG LEU VAL LEU MET SER LYS ARG GLU GLY GLY VAL HIS ALA ALA THR LEU VAL PHE ALA LEU GLN CYS LYS VAL ASN THR ARG ALA PRO LEU LYS ARG VAL ARG THR GLU GLY PRO LEU GLN PHE GLU PHE THR VAL THR ASN PRO PHE PRO ALA ASP GLY ASP PHE

THR ILE GLN ILE LEU HIS GLU PRO ALA GLU PRO LEU PRO LYS LYS LYS GLU GLU ASP PRO ALA ALA ALA THR LYS ASN ALA LYS GLY ASN LYS SER THR ASN ARG ARG THR GLY ARG LYS SER THR GLY LEU ASP ALA THR LEU GLY HIS GLU ASP PRO ALA SER LYS LEU GLY ARG VAL TRP PRO

ASP ALA PHE GLY LEU ASP ARG ASN ARG LEU LYS LYS GLN ASN ALA SER GLU ARG ILE LYS GLY PHE PHE LEU PRO PHE SER MET THR THR ALA TYR CYS THR VAL LEU PHE ARG ASP LYS ASP GLN GLY GLU PHE CYS TYR GLU LEU VAL LEU GLY GLU PRO ARG PRO ILE

MET GLU VAL LYS GLY ASN VAL PRO LEU GLU GLU ALA ALA PRO GLN GLN VAL TYR ASP LEU MET LEU PRO PHE PRO ASN SER ALA LEU GLU GLY ALA LYS ARG ALA PHE THR GLU LYS HIS PRO LEU ALA LYS ASP LYS GLU CYS VAL ALA LEU GLU LEU PRO VAL LYS GLY MET GLU VAL

MET TYR GLU VAL THR GLN THR ASN SER LEU MET SER SER PRO GLY HIS ILE VAL LEU SER ALA ARG PRO SER MET GLY ALA ALA ALA ASP GLY ALA ASP GLY ILE TYR PRO THR ARG ALA ILE MET LEU THR SER PRO LEU ASP VAL ARG VAL SER PRO PRO GLY ASN ALA THR GLY GLY GLY LEU GLY SER THR GLN ARG PRO VAL THR THR

ARG ASN PRO ASN ALA LEU PRO PRO PRO GLU PRO ASN THR LEU THR ILE ILE ASN PRO ILE TYR PRO THR ARG ARG ILE MET LEU THR SER PRO LEU ASP VAL ARG VAL SER LEU GLU LEU THR ALA GLN THR MET THR GLN SER PHE VAL LEU GLU ARG PRO THR ASN

SER ALA ARG GLN ALA ILE ILE PRO LEU VAL ASN THR GLY ASP VAL THR ALA THR ILE ASN GLY SER ALA TRP SER GLY PRO ARG GLU VAL SER VAL SER ALA GLY ALA THR VAL GLY TYR PRO LEU GLN PHE LYS PRO LEU MET PRO GLY ASP VAL LYS

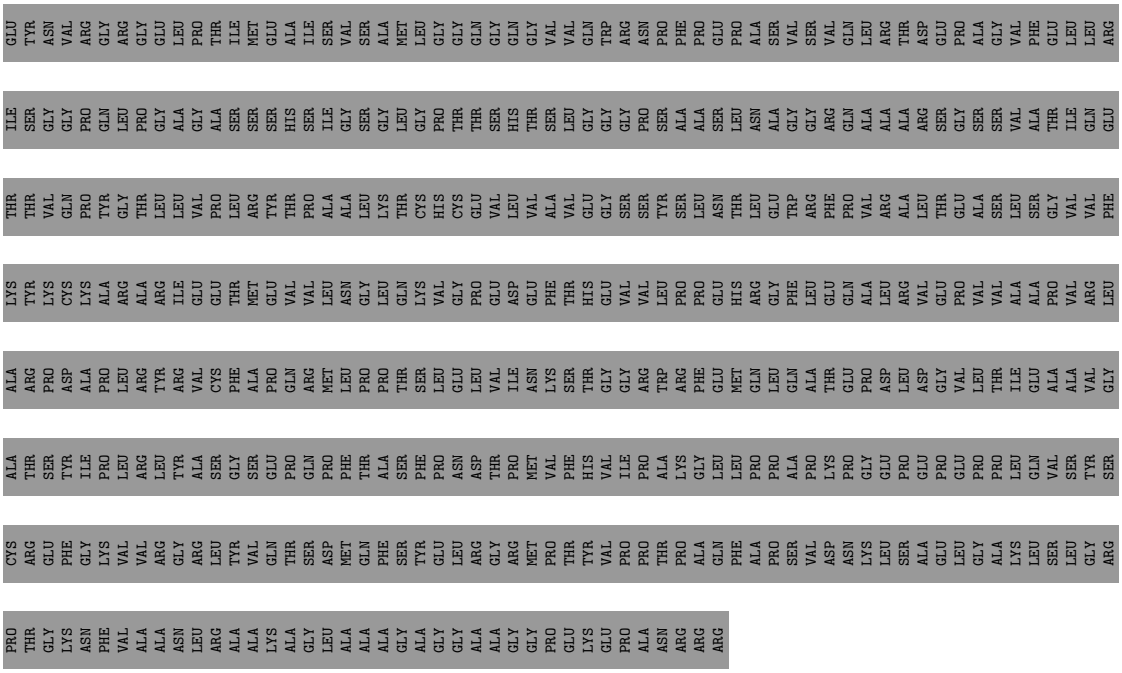
GLY SER LEU GLU LEU ALA THR GLY ILE ASN ALA THR ARG GLY GLU ARG ASN THR TYR THR LEU VAL GLY ARG ALA ALA GLU PRO THR ALA GLU GLY GLY GLN ILE ILE ILE GLU CYS GLN ALA ARG LYS PRO ALA VAL LYS GLN PHE ASN VAL PRO ASN ILE VAL PHE GLY THR GLY THR GLU VAL

CYS ASP LEU ASP PHE MET VAL PRO SER ILE LYS VAL PRO PRO GLN ARG SER GLY THR TYR ASN GLY THR ILE THR PHE THR THR ALA ASP GLY GLN PHE VAL TRP TYR THR LEU GLU GLU VAL ARG ALA SER GLU PRO PRO

GLU VAL GLY THR ILE ASP PHE ALA ARG ALA LYS ASP MET GLU LEU ALA VAL ARG TYR SER GLU VAL ALA LEU CYS GLY PRO PRO SER ILE SER LEU PRO VAL GLY SER GLN GLU PRO VAL PRO PHE PHE

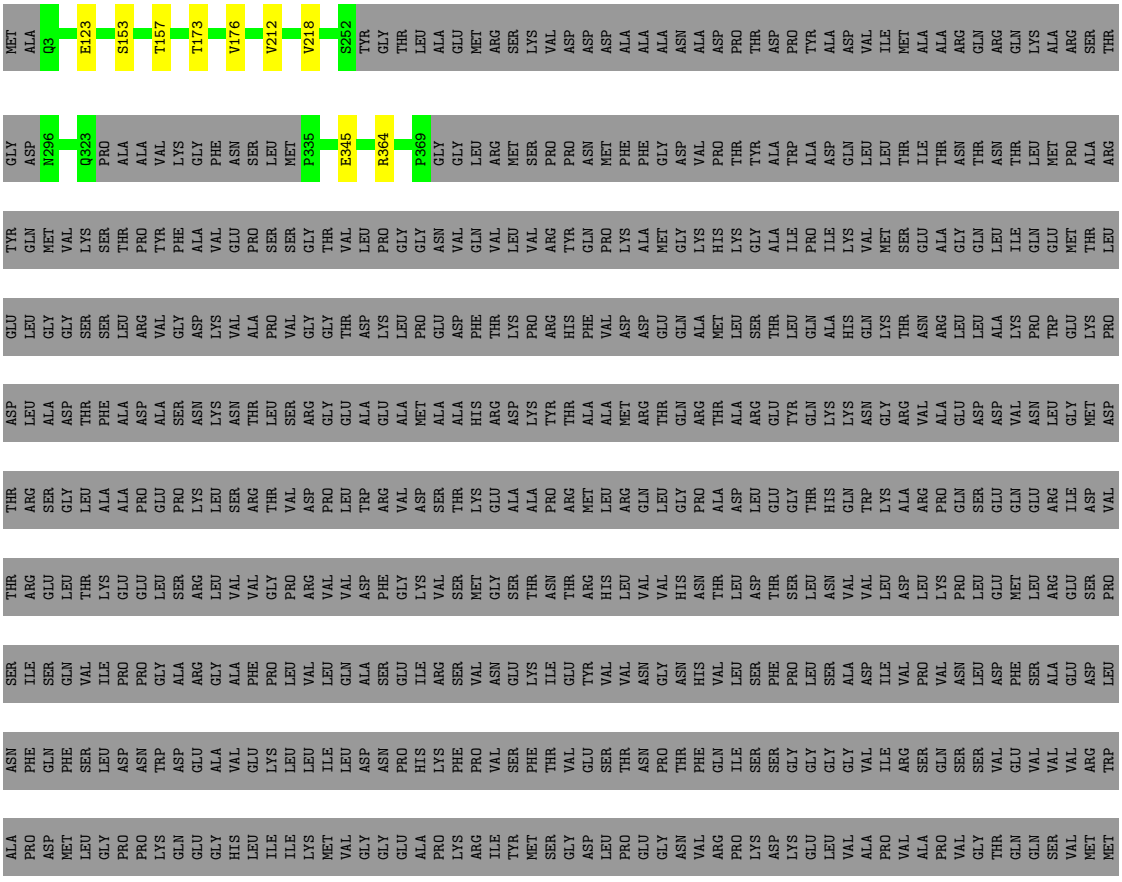
TYR ALA PRO LEU VAL PRO THR GLY SER VAL SER ASP ASP VAL GLY PHE ARG TYR LEU ILE ASN MET THR ALA ASP PRO ASP LEU PRO ALA MET THR ALA GLU LEU GLY LYS SER VAL SER GLN GLU VAL VAL GLU PRO LEU

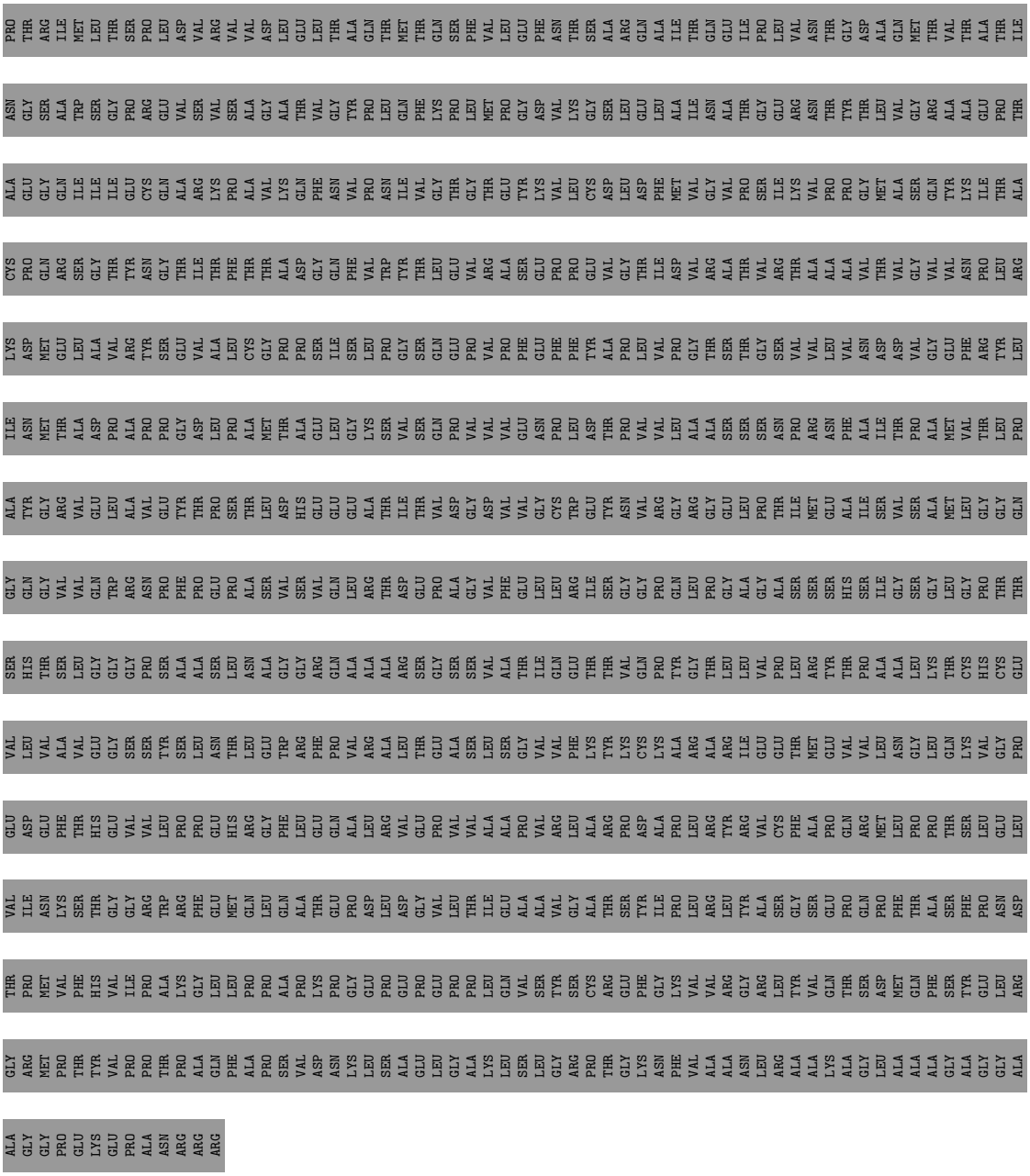
ASP THR PRO VAL VAL LEU ALA ALA SER SER ASN PRO ARG ASN PHE ALA ILE THR PRO ALA MET VAL THR LEU PRO ALA TYR GLY ARG VAL GLU LEU ASP PRO SER THR LEU ASP HIS GLU GLU ALA THR ILE THR LEU VAL ASP GLY ASP VAL VAL GLY CYS TRP



• Molecule 32: FAP47

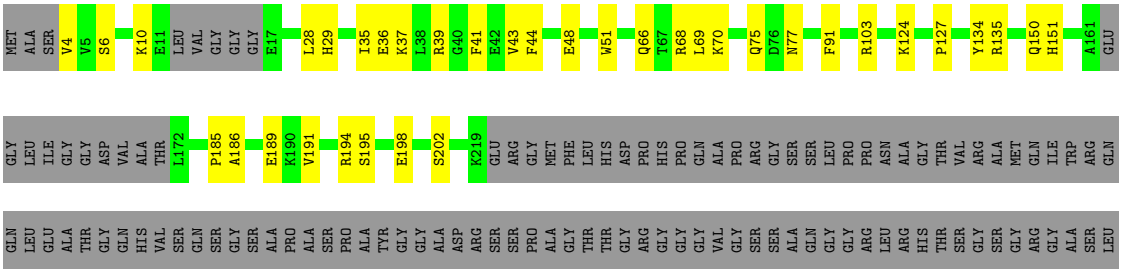
Chain T3:

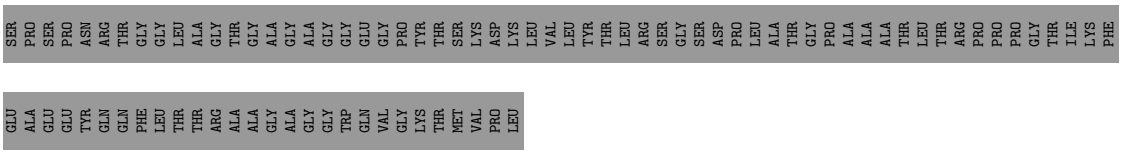




- Molecule 33: FAP279

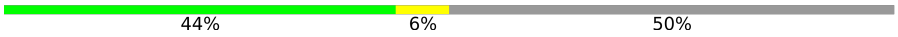
Chain U0:

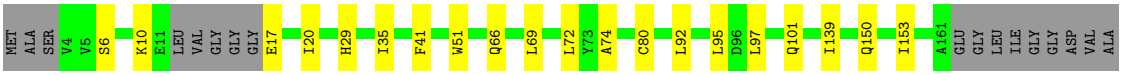


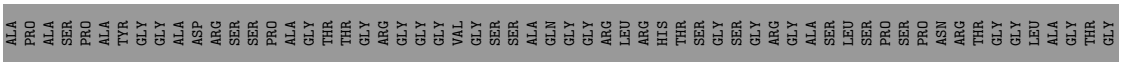


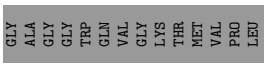
• Molecule 33: FAP279

Chain U1:



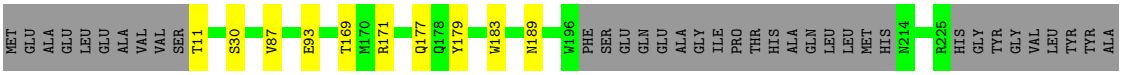


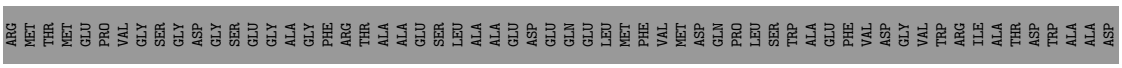




• Molecule 34: FAP266

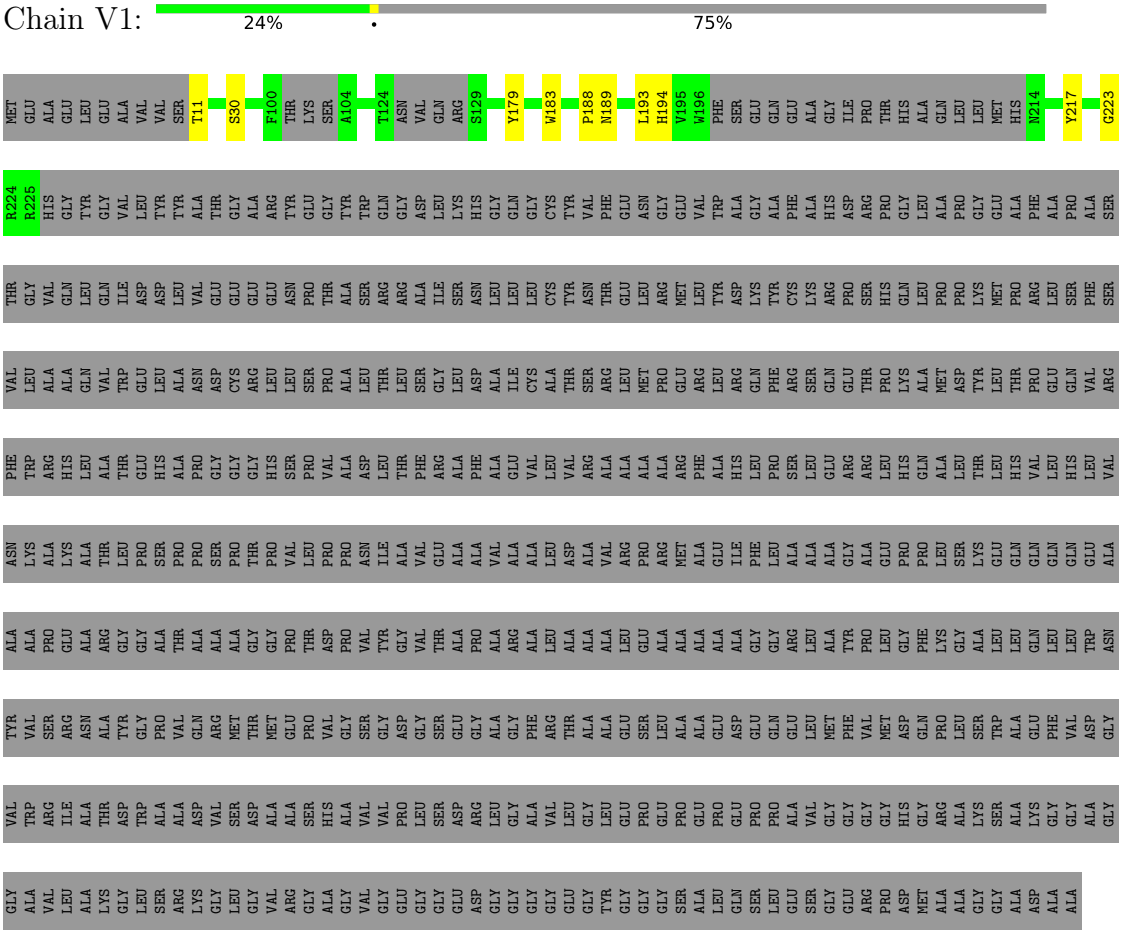
Chain V0:





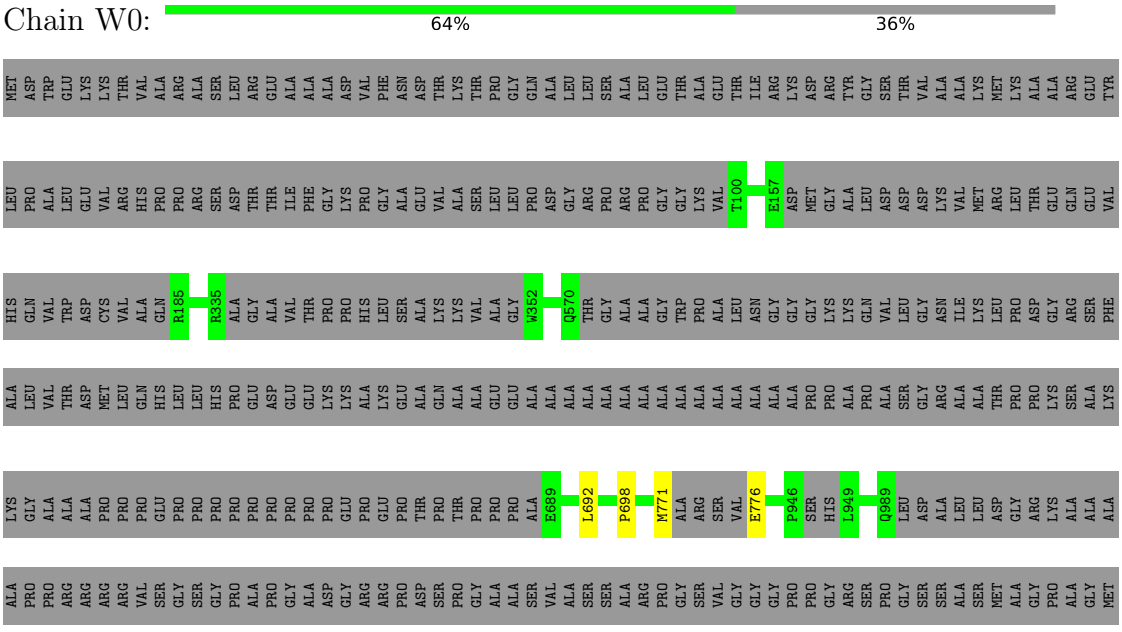
- Molecule 34: FAP266

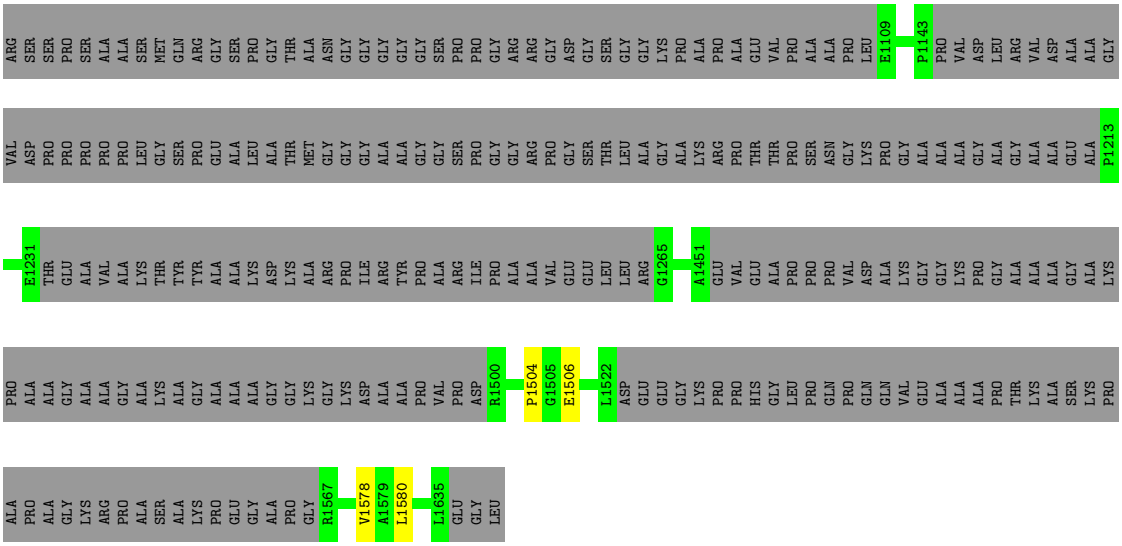
Chain V1:



- Molecule 35: FAP76

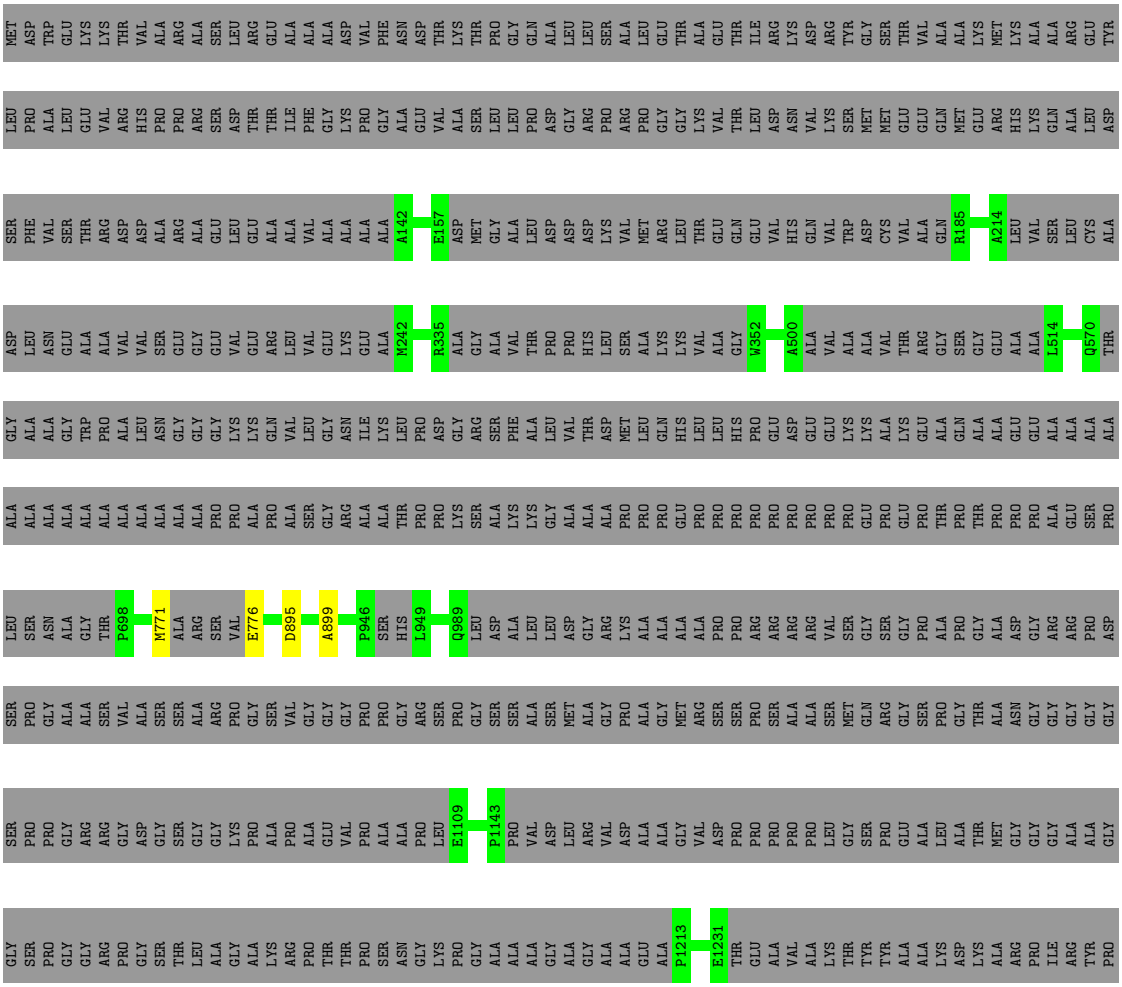
Chain W0:

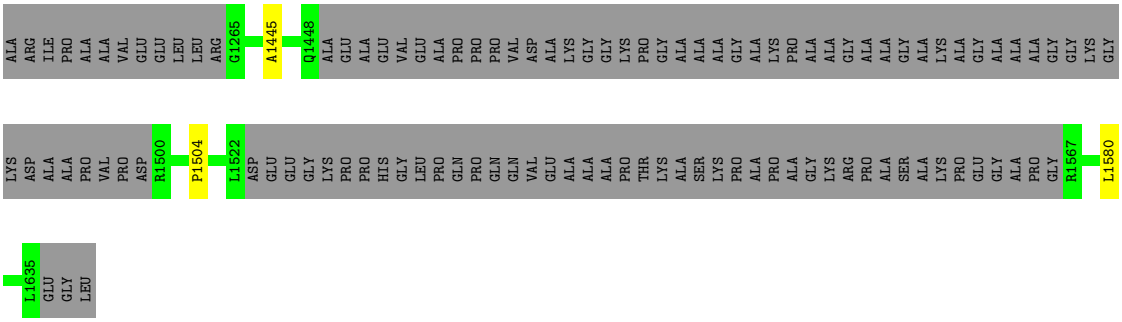




• Molecule 35: FAP76

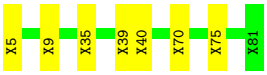
Chain W1:





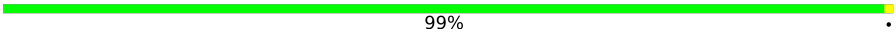
• Molecule 36: Unknown protein

Chain W3:



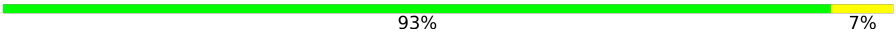
• Molecule 36: Unknown protein

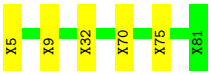
Chain W4:



• Molecule 36: Unknown protein

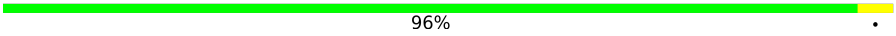
Chain W5:

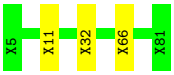




• Molecule 36: Unknown protein

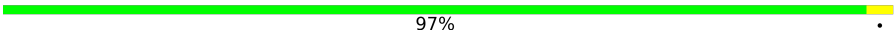
Chain W6:

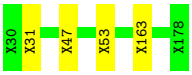




• Molecule 37: Unknown protein

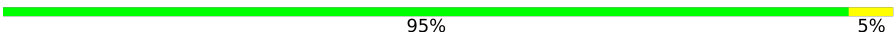
Chain W7:

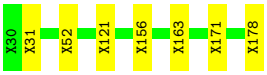




• Molecule 37: Unknown protein

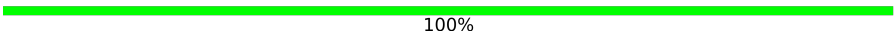
Chain W9:





• Molecule 38: Unknown protein

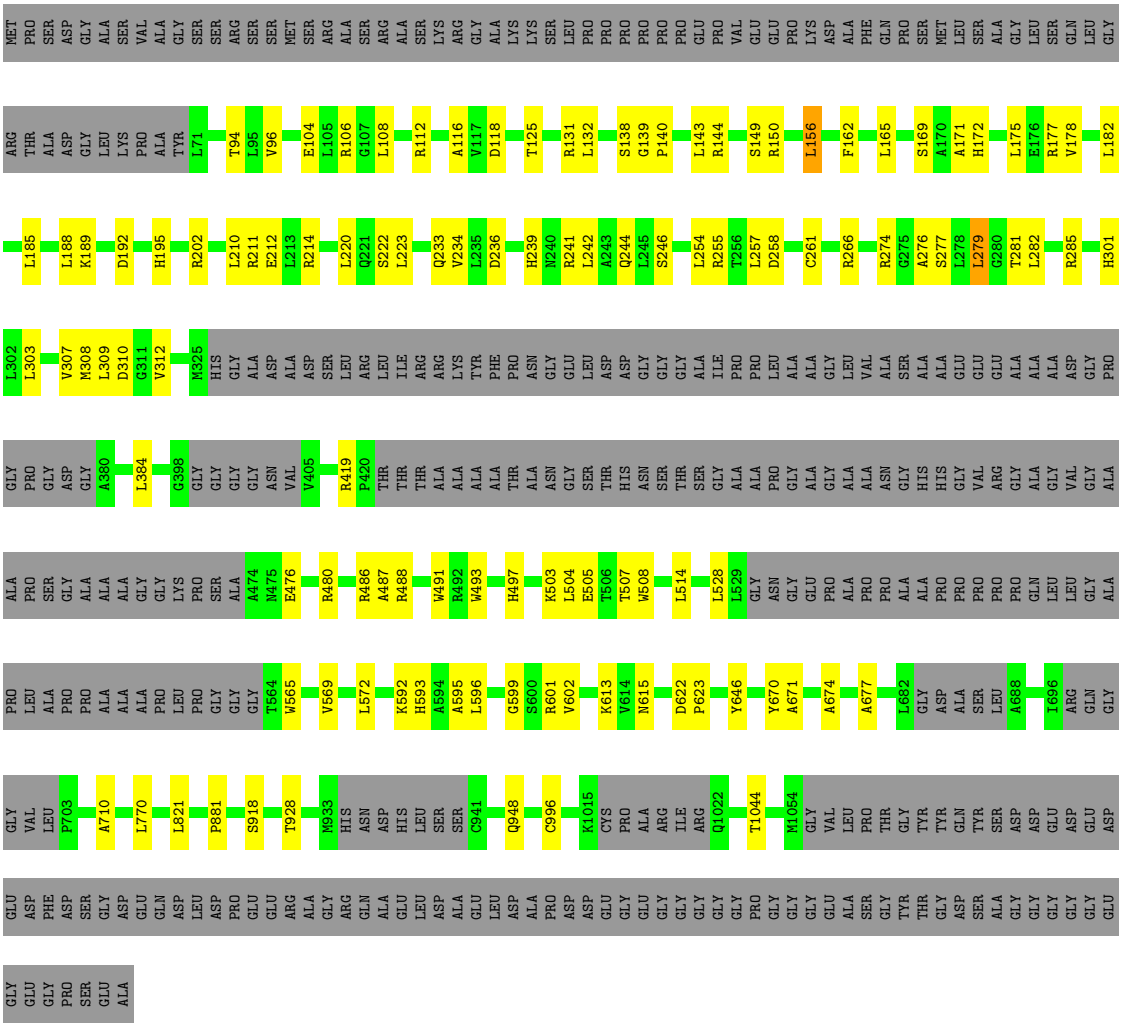
Chain W8:



There are no outlier residues recorded for this chain.

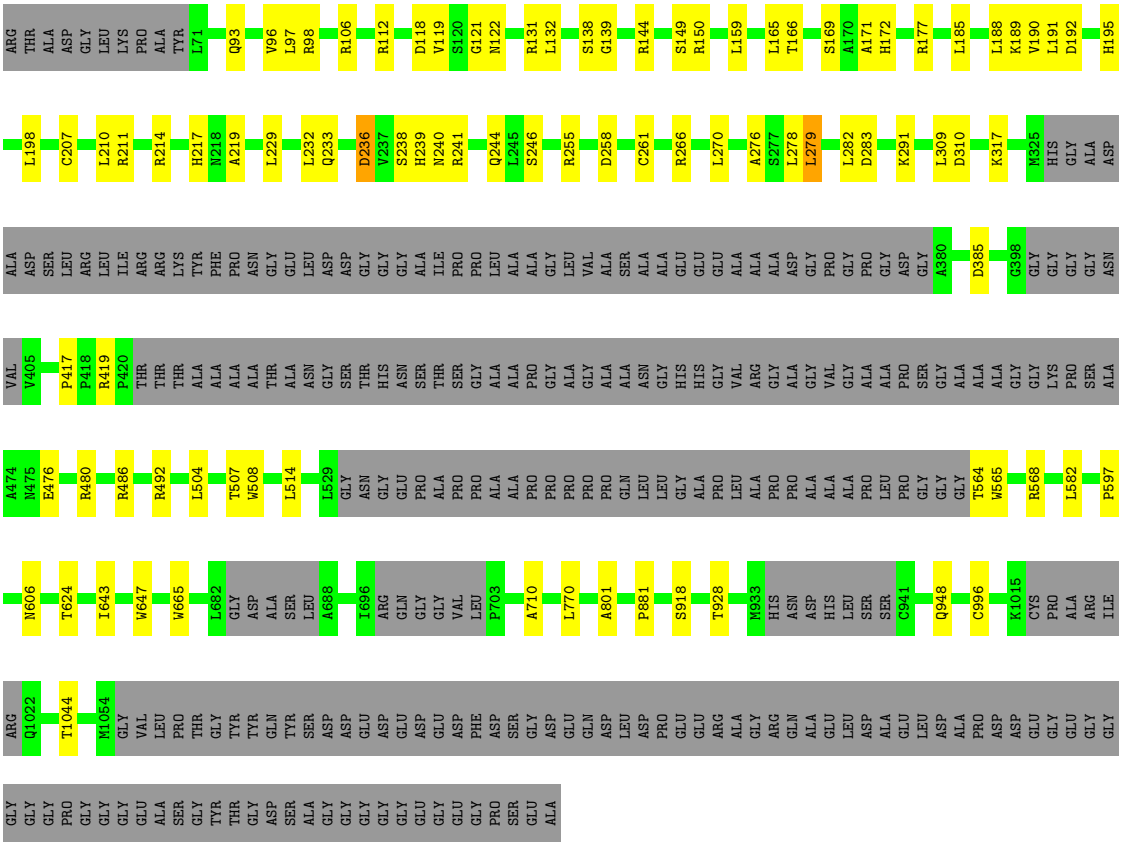
• Molecule 39: FAP246

Chain X0:



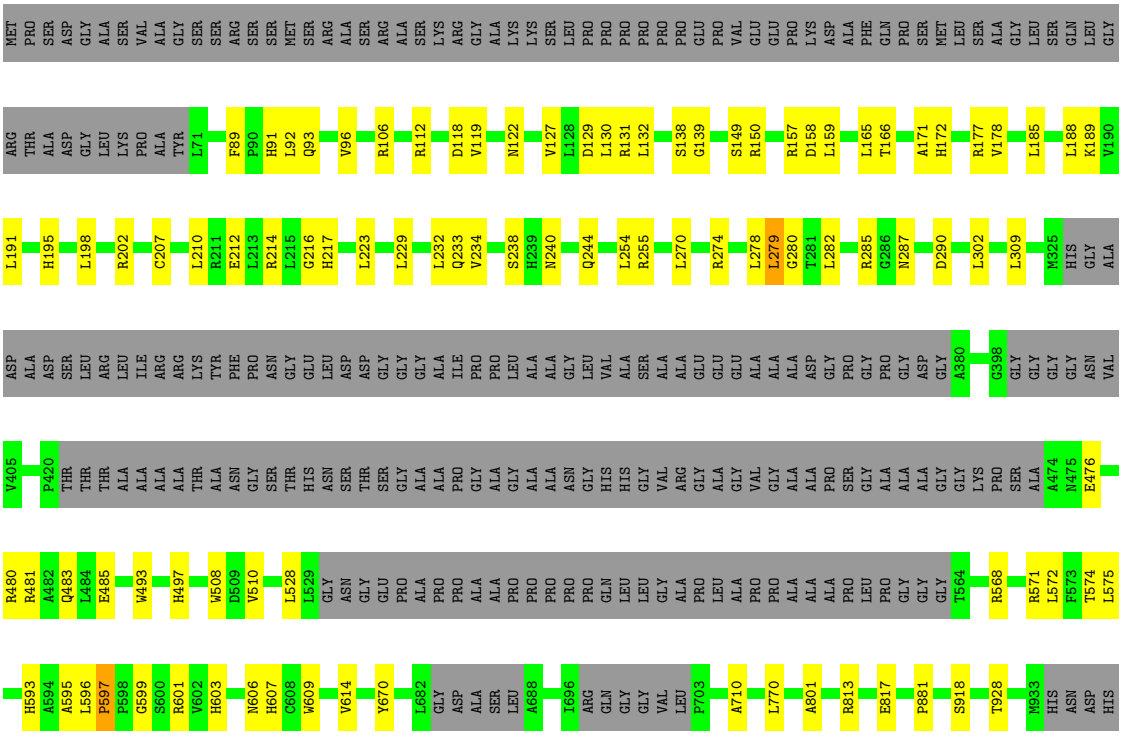
• Molecule 39: FAP246

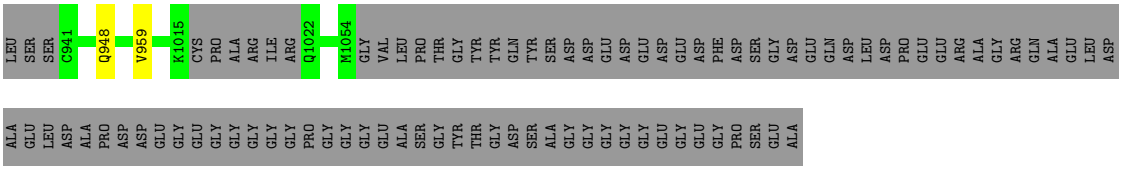
Chain X1:



• Molecule 39: FAP246

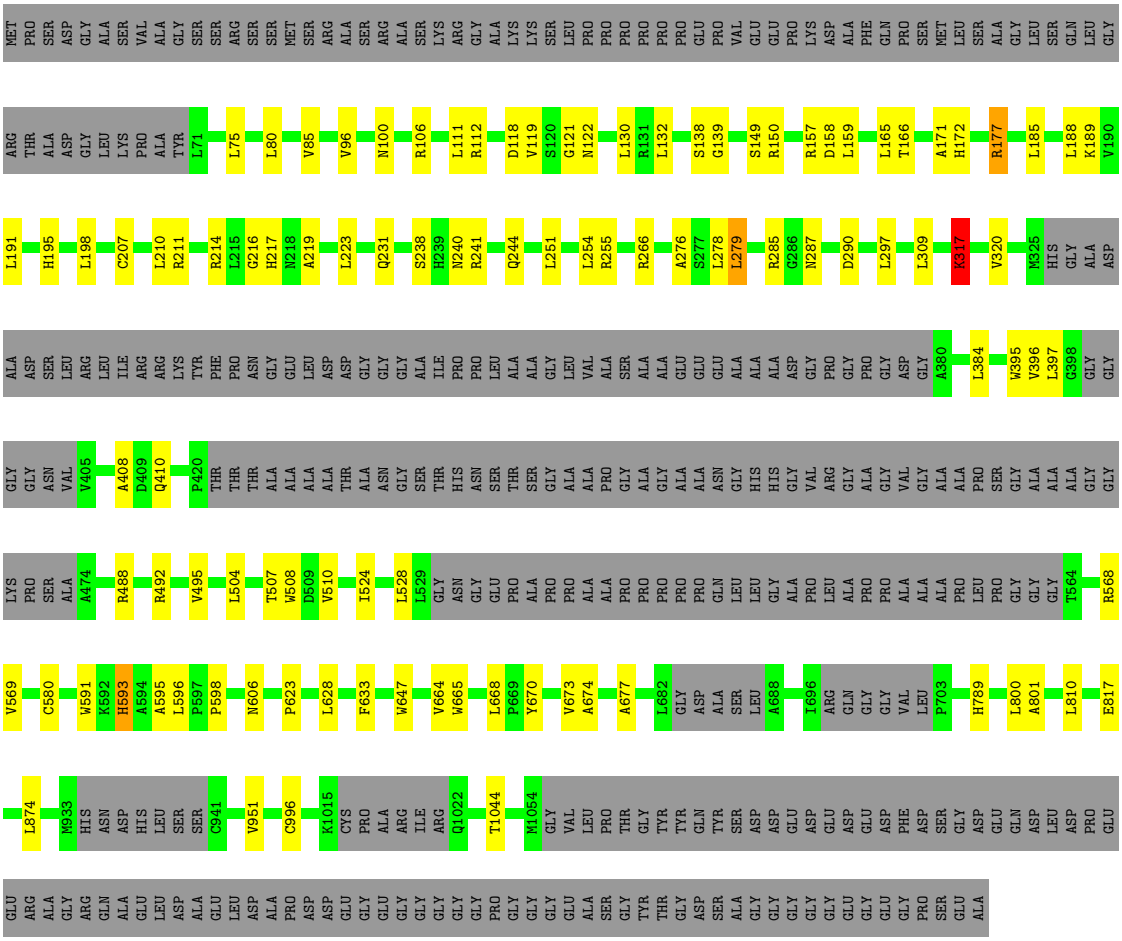
Chain X2:





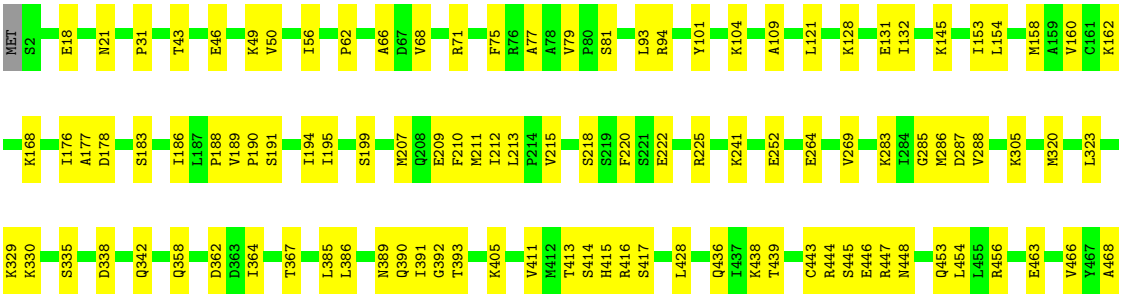
• Molecule 39: FAP246

Chain X3:



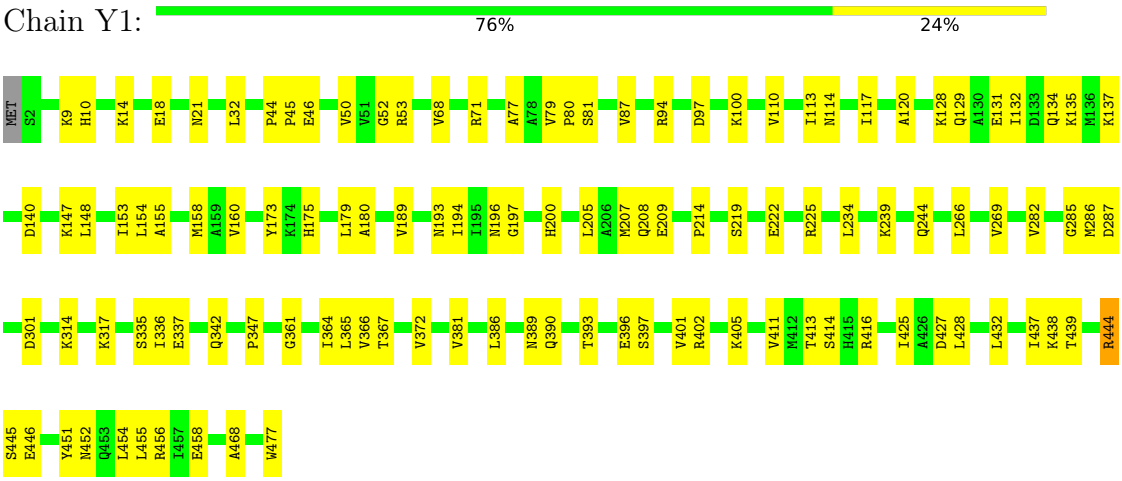
• Molecule 40: Phosphopyruvate hydratase

Chain Y0:



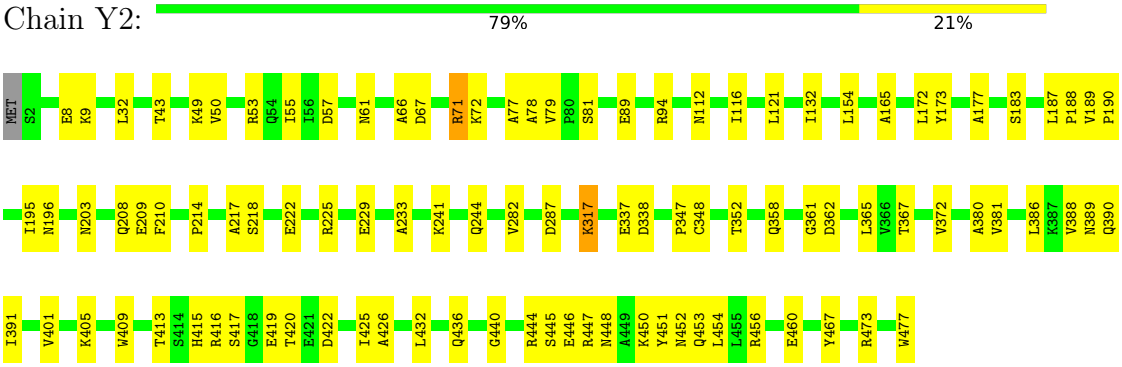
• Molecule 40: Phosphopyruvate hydratase

Chain Y1:



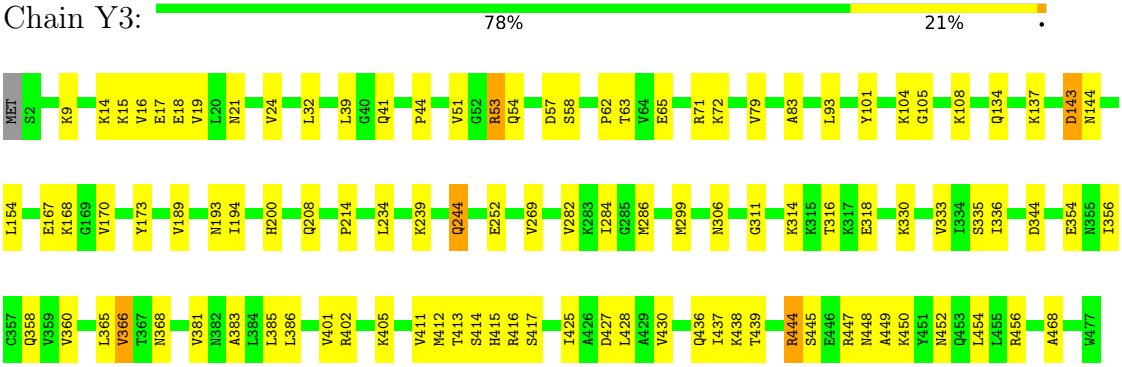
• Molecule 40: Phosphopyruvate hydratase

Chain Y2:



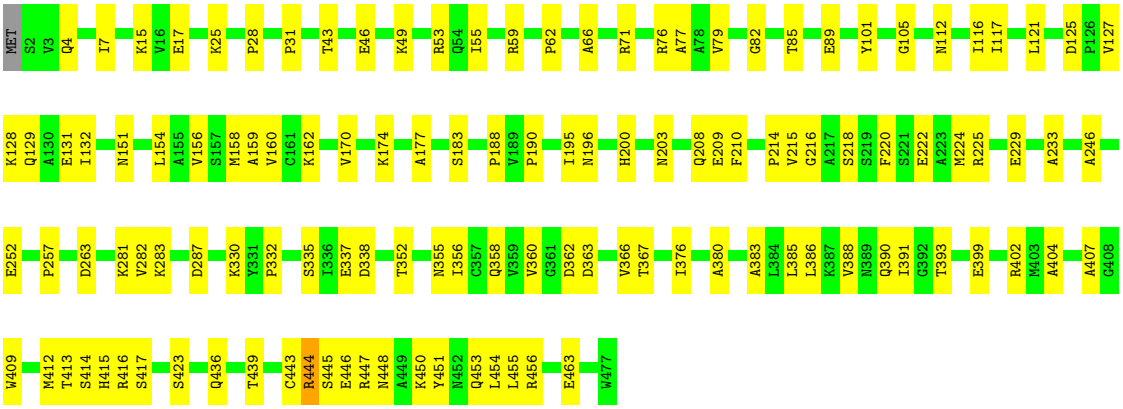
• Molecule 40: Phosphopyruvate hydratase

Chain Y3:



• Molecule 40: Phosphopyruvate hydratase

Chain Y4:



• Molecule 40: Phosphopyruvate hydratase

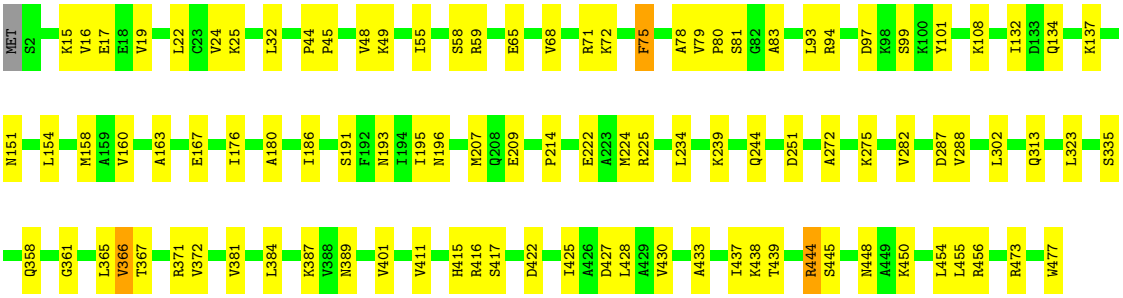
Chain Y5:

• Molecule 40: Phosphopyruvate hydratase

Chain Y6:

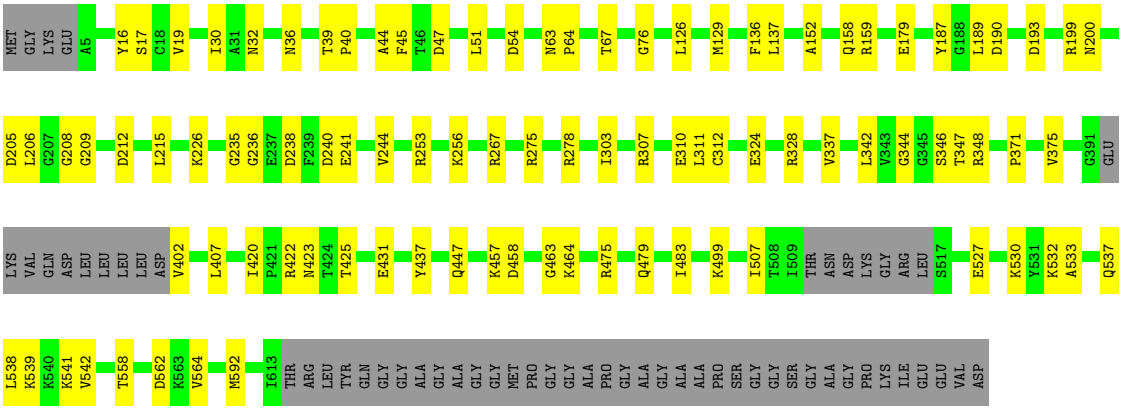
• Molecule 40: Phosphopyruvate hydratase

Chain Y7:



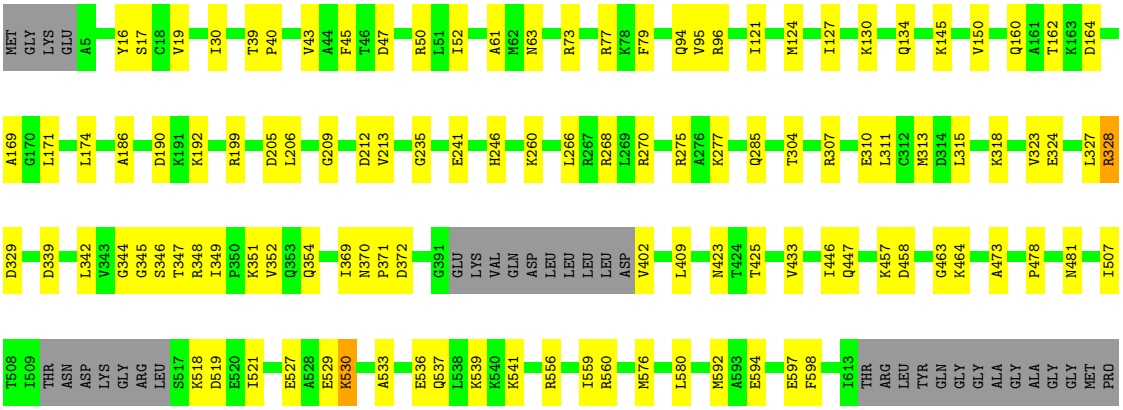
• Molecule 41: Heat shock protein 70A

Chain Z0:



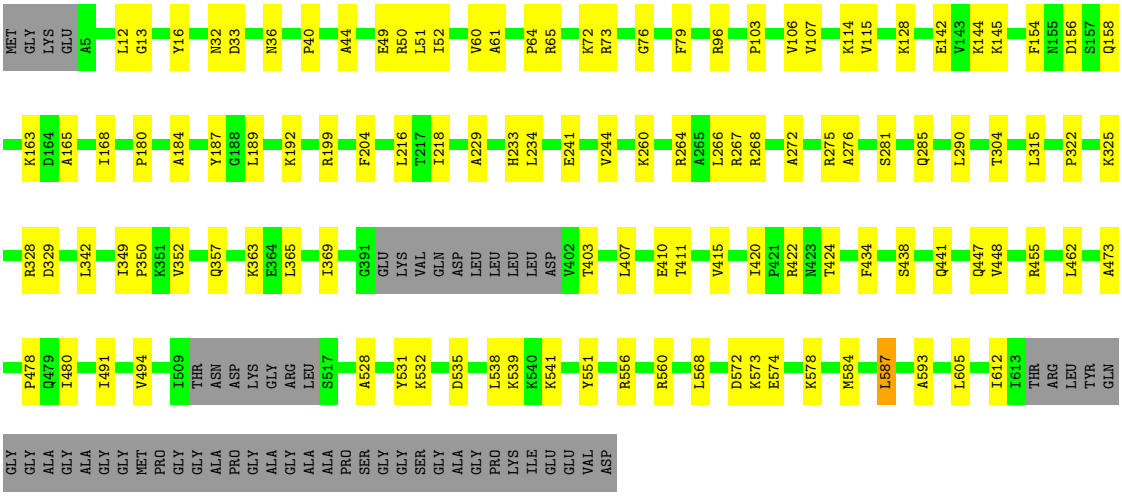
• Molecule 41: Heat shock protein 70A

Chain Z1:



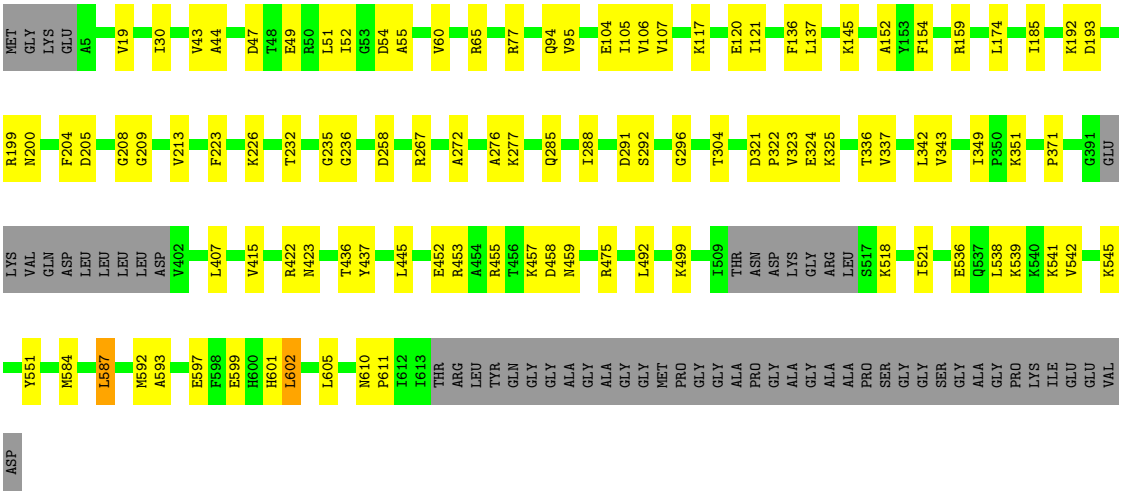
• Molecule 41: Heat shock protein 70A

Chain Z2:



• Molecule 41: Heat shock protein 70A

Chain Z3:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	80007	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	39.6	Depositor
Minimum defocus (nm)	500	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor

5 Model quality

5.1 Standard geometry

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	0A	0.23	0/285	0.31	0/394
1	0B	0.24	0/310	0.29	0/429
1	0C	0.23	0/285	0.30	0/394
1	0D	0.23	0/310	0.29	0/429
1	0E	0.24	0/285	0.31	0/394
1	0F	0.23	0/310	0.29	0/429
1	0G	0.23	0/285	0.30	0/394
1	0H	0.23	0/310	0.29	0/429
1	0I	0.23	0/307	0.30	0/427
1	0J	0.24	0/277	0.32	0/385
1	0K	0.23	0/311	0.31	0/432
1	0L	0.24	0/267	0.33	0/371
2	1A	0.30	0/10591	0.65	7/14505 (0.0%)
2	1B	0.29	0/10698	0.64	8/14657 (0.1%)
2	1C	0.29	0/10895	0.64	8/14933 (0.1%)
2	1D	0.29	0/10826	0.66	12/14836 (0.1%)
3	1F	0.26	0/1108	0.28	0/1542
3	1G	0.25	0/797	0.26	0/1105
3	1H	0.25	0/896	0.28	0/1247
3	1I	0.24	0/487	0.25	0/675
3	1J	0.26	0/1671	0.28	0/2326
3	1K	0.26	0/1702	0.27	0/2370
3	1L	0.25	0/1671	0.27	0/2326
3	1M	0.26	0/1702	0.26	0/2370
3	1N	0.26	0/1671	0.28	0/2326
3	1O	0.26	0/1702	0.27	0/2370
3	1P	0.25	0/1671	0.27	0/2326
3	1Q	0.26	0/1702	0.26	0/2370
3	1R	0.26	0/1671	0.28	0/2326
3	1S	0.26	0/1702	0.27	0/2370
3	1T	0.25	0/1671	0.26	0/2326
3	1U	0.26	0/1702	0.26	0/2370

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
3	1V	0.25	0/1075	0.27	0/1493
3	1W	0.25	0/1318	0.27	0/1836
3	1X	0.25	0/1130	0.26	0/1570
3	1Y	0.25	0/1303	0.26	0/1815
4	2A	0.28	0/4381	0.60	2/6013 (0.0%)
4	2B	0.27	0/4465	0.58	3/6127 (0.0%)
5	2E	0.23	0/1138	0.34	0/1577
5	2F	0.23	0/1148	0.33	0/1591
6	2H	0.25	0/2007	0.44	0/2782
6	2I	0.25	0/2007	0.45	0/2782
7	2K	0.24	0/1231	0.34	0/1717
7	2L	0.24	0/1276	0.33	0/1780
7	2M	0.24	0/1271	0.34	0/1773
7	2N	0.25	0/1301	0.34	0/1815
7	2O	0.24	0/1246	0.34	0/1738
7	2P	0.24	0/916	0.36	0/1276
7	2Q	0.24	0/199	0.30	0/277
8	3A	0.25	0/867	0.30	0/1207
8	3B	0.25	0/867	0.30	0/1207
8	3C	0.25	0/867	0.30	0/1207
8	3D	0.25	0/828	0.30	0/1153
9	3K	0.24	0/1273	0.35	0/1777
9	3L	0.24	0/1198	0.34	0/1672
9	3M	0.23	0/1263	0.34	0/1763
9	3N	0.24	0/1213	0.34	0/1693
9	3O	0.24	0/1283	0.34	0/1791
9	3P	0.24	0/1263	0.35	0/1763
10	4A	0.24	0/703	0.37	0/976
10	4B	0.24	0/703	0.37	0/976
10	4C	0.24	0/703	0.36	0/976
10	4D	0.24	0/703	0.37	0/976
10	4E	0.23	0/703	0.37	0/976
10	4F	0.24	0/703	0.38	0/976
10	4G	0.23	0/703	0.37	0/976
10	4H	0.24	0/703	0.37	0/976
10	4I	0.24	0/703	0.37	0/976
10	4J	0.24	0/703	0.37	0/976
10	4K	0.24	0/703	0.37	0/976
10	4L	0.24	0/703	0.37	0/976
11	5A	0.27	0/2703	0.38	0/3741
11	5B	0.24	0/2703	0.37	0/3741
11	5C	0.27	0/2703	0.39	0/3741
11	5D	0.25	0/2703	0.37	0/3741

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
12	6A	0.25	0/1434	0.44	0/1994
12	6B	0.24	0/1434	0.44	0/1994
12	6C	0.24	0/1248	0.45	0/1735
12	6D	0.25	0/1248	0.44	0/1735
13	7A	0.26	0/572	0.49	0/785
13	7B	0.26	0/635	0.49	0/872
13	7C	0.26	0/565	0.49	0/774
13	7D	0.26	0/490	0.50	0/673
13	7E	0.25	0/542	0.49	0/743
13	7F	0.26	0/495	0.50	0/680
13	7G	0.26	0/572	0.49	0/785
13	7H	0.26	0/635	0.49	0/872
13	7I	0.25	0/577	0.49	0/792
13	7J	0.26	0/635	0.49	0/872
13	7K	0.26	0/572	0.49	0/785
13	7L	0.26	0/562	0.50	0/771
14	8A	0.29	0/1996	0.72	3/2694 (0.1%)
14	8B	0.30	0/1037	0.65	0/1403
14	8C	0.31	0/2136	0.68	0/2886
14	8D	0.29	0/1037	0.69	1/1403 (0.1%)
15	9A	0.26	0/4060	0.41	0/5624
15	9B	0.26	0/4060	0.41	0/5624
15	9C	0.26	0/4060	0.40	0/5624
15	9D	0.26	0/4060	0.40	0/5624
15	9E	0.26	0/3336	0.42	0/4611
15	9F	0.26	0/3326	0.42	0/4597
16	A0	0.30	0/1024	0.74	3/1399 (0.2%)
16	A1	0.26	0/1320	0.65	1/1797 (0.1%)
16	A2	0.27	0/1320	0.65	0/1797
16	A3	0.30	0/1320	0.70	1/1797 (0.1%)
16	A4	0.30	0/287	0.65	0/383
17	B0	0.33	0/1940	0.74	2/2592 (0.1%)
17	B1	0.35	0/3778	0.76	1/5055 (0.0%)
17	B2	0.38	0/1952	0.87	3/2620 (0.1%)
18	C0	0.33	0/9180	0.72	9/12429 (0.1%)
18	C1	0.33	0/10289	0.75	19/13903 (0.1%)
18	C2	0.32	0/11707	0.73	10/15818 (0.1%)
18	C3	0.33	1/11612 (0.0%)	0.71	8/15691 (0.1%)
18	C4	0.36	0/2279	0.79	1/3058 (0.0%)
19	D0	0.30	0/3356	0.66	4/4570 (0.1%)
19	D1	0.31	0/3353	0.65	2/4566 (0.0%)
19	D2	0.32	0/3371	0.65	3/4591 (0.1%)
19	D3	0.31	0/3368	0.68	6/4587 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
19	D4	0.32	0/3356	0.71	5/4570 (0.1%)
19	D5	0.34	0/3368	0.71	4/4587 (0.1%)
19	D6	0.29	0/3371	0.63	1/4591 (0.0%)
19	D7	0.31	0/3368	0.67	2/4587 (0.0%)
19	G0	0.31	0/3350	0.66	3/4562 (0.1%)
19	G1	0.33	0/3358	0.65	1/4573 (0.0%)
19	G2	0.31	0/3365	0.64	1/4583 (0.0%)
19	G3	0.31	0/3358	0.62	2/4573 (0.0%)
19	G4	0.31	0/3365	0.66	0/4583
19	G5	0.31	0/3358	0.63	1/4573 (0.0%)
19	H0	0.28	0/3342	0.61	1/4551 (0.0%)
19	H1	0.30	0/3245	0.65	1/4416 (0.0%)
19	H2	0.28	0/3272	0.61	2/4457 (0.0%)
19	H3	0.31	0/3322	0.68	3/4524 (0.1%)
19	H4	0.28	0/3357	0.63	3/4572 (0.1%)
19	H5	0.30	0/3329	0.64	3/4534 (0.1%)
19	H6	0.30	0/3253	0.65	1/4431 (0.0%)
19	H7	0.31	0/3285	0.72	6/4473 (0.1%)
19	I0	0.32	0/3315	0.64	1/4515 (0.0%)
19	I1	0.31	0/3357	0.65	2/4572 (0.0%)
19	J0	0.31	0/3294	0.64	1/4484 (0.0%)
19	J1	0.30	0/3358	0.66	2/4573 (0.0%)
19	J2	0.29	0/3347	0.60	0/4558
19	J3	0.32	0/3333	0.68	4/4538 (0.1%)
19	K0	0.32	0/3363	0.69	2/4580 (0.0%)
19	K1	0.31	0/3363	0.65	3/4580 (0.1%)
19	K2	0.32	0/3363	0.68	2/4580 (0.0%)
19	K3	0.31	0/3333	0.68	2/4539 (0.0%)
19	L0	0.32	0/3582	0.71	2/4860 (0.0%)
19	L1	0.33	0/3562	0.70	2/4833 (0.0%)
19	L2	0.33	0/3562	0.71	4/4833 (0.1%)
19	L3	0.33	0/3582	0.72	5/4860 (0.1%)
20	E0	0.28	0/1913	0.63	1/2605 (0.0%)
20	E1	0.30	0/1955	0.67	2/2666 (0.1%)
20	E2	0.27	0/1891	0.64	0/2577
20	E3	0.30	0/1963	0.70	3/2678 (0.1%)
21	F0	0.26	0/1523	0.49	0/2114
21	F1	0.30	0/2963	0.62	0/4074
21	F2	0.28	0/2963	0.58	1/4074 (0.0%)
21	F3	0.30	0/2963	0.61	0/4074
22	M0	0.29	0/1806	0.64	0/2470
22	M1	0.30	0/4407	0.66	0/6008
23	N0	0.26	0/2744	0.48	0/3781

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
23	N1	0.28	0/2822	0.54	0/3888
23	N2	0.27	0/2744	0.52	1/3781 (0.0%)
23	N3	0.28	0/2837	0.50	0/3909
24	NB	0.29	0/3412	0.60	1/4625 (0.0%)
24	ND	0.30	0/3412	0.61	2/4625 (0.0%)
24	NF	0.29	0/3412	0.64	2/4625 (0.0%)
24	NH	0.29	0/3412	0.62	1/4625 (0.0%)
24	NJ	0.29	0/3412	0.60	1/4625 (0.0%)
24	NL	0.29	0/3412	0.61	0/4625
24	NN	0.30	0/3412	0.62	3/4625 (0.1%)
24	OD	0.30	0/3412	0.61	0/4625
24	OF	0.30	0/3412	0.64	2/4625 (0.0%)
24	OH	0.30	0/3412	0.62	1/4625 (0.0%)
24	OJ	0.29	0/3412	0.61	0/4625
24	OL	0.29	0/3412	0.63	3/4625 (0.1%)
24	ON	0.31	0/3412	0.62	1/4625 (0.0%)
24	OP	0.30	0/3412	0.62	3/4625 (0.1%)
24	PD	0.29	0/3406	0.59	0/4617
24	PF	0.30	0/3412	0.63	2/4625 (0.0%)
24	PH	0.31	0/3412	0.63	0/4625
24	PJ	0.29	0/3412	0.60	1/4625 (0.0%)
24	PL	0.30	0/3406	0.62	0/4617
24	PN	0.29	0/3412	0.61	1/4625 (0.0%)
24	PP	0.30	0/3412	0.63	1/4625 (0.0%)
24	QD	0.29	0/3412	0.60	1/4625 (0.0%)
24	QF	0.29	0/3412	0.59	1/4625 (0.0%)
24	QH	0.30	0/3471	0.61	3/4705 (0.1%)
24	QJ	0.29	0/3412	0.61	0/4625
24	QL	0.29	0/3412	0.61	4/4625 (0.1%)
24	QN	0.32	0/3406	0.66	2/4617 (0.0%)
24	QP	0.29	0/3471	0.64	2/4705 (0.0%)
24	RD	0.30	0/3412	0.63	2/4625 (0.0%)
24	RF	0.30	0/3412	0.63	3/4625 (0.1%)
24	RH	0.30	0/3412	0.61	0/4625
24	RJ	0.30	0/3412	0.62	2/4625 (0.0%)
24	RL	0.31	0/3412	0.64	2/4625 (0.0%)
24	RN	0.30	0/3412	0.63	3/4625 (0.1%)
24	RP	0.31	0/3412	0.65	2/4625 (0.0%)
24	SB	0.31	0/3412	0.63	3/4625 (0.1%)
24	SD	0.30	0/3412	0.62	3/4625 (0.1%)
24	SF	0.29	0/3412	0.62	4/4625 (0.1%)
24	SH	0.29	0/3434	0.59	0/4655
24	SJ	0.29	0/3412	0.62	2/4625 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
24	SL	0.28	0/3412	0.59	1/4625 (0.0%)
24	SN	0.29	0/3412	0.59	1/4625 (0.0%)
24	SP	0.29	0/3434	0.63	0/4655
24	TB	0.29	0/3412	0.58	1/4625 (0.0%)
24	TD	0.28	0/3412	0.59	1/4625 (0.0%)
24	TF	0.28	0/3412	0.61	1/4625 (0.0%)
24	TH	0.30	0/3434	0.62	2/4655 (0.0%)
24	TJ	0.29	0/3412	0.61	2/4625 (0.0%)
24	TL	0.29	0/3412	0.60	2/4625 (0.0%)
24	TN	0.30	0/3412	0.64	4/4625 (0.1%)
24	TP	0.29	0/3434	0.60	1/4655 (0.0%)
24	UB	0.29	0/3465	0.58	2/4697 (0.0%)
24	UD	0.32	0/3426	0.66	2/4644 (0.0%)
24	UF	0.29	0/3471	0.59	0/4705
24	UH	0.31	0/3430	0.61	0/4649
24	UJ	0.31	0/3471	0.63	2/4705 (0.0%)
24	UL	0.32	0/3424	0.65	2/4641 (0.0%)
24	UN	0.30	0/3471	0.63	2/4705 (0.0%)
24	UP	0.31	0/3420	0.64	3/4636 (0.1%)
24	VB	0.28	0/3412	0.59	1/4625 (0.0%)
24	VD	0.29	0/3412	0.58	0/4625
24	VF	0.29	0/3412	0.57	0/4625
24	VH	0.32	0/3434	0.66	2/4655 (0.0%)
24	VJ	0.30	0/3412	0.58	3/4625 (0.1%)
24	VL	0.29	0/3412	0.60	2/4625 (0.0%)
24	VN	0.29	0/3412	0.58	0/4625
24	VP	0.30	0/3412	0.60	1/4625 (0.0%)
24	WB	0.29	0/3471	0.60	1/4705 (0.0%)
24	WD	0.29	0/3414	0.63	2/4628 (0.0%)
24	WF	0.30	0/3471	0.63	4/4705 (0.1%)
24	WH	0.30	0/3438	0.59	0/4660
24	WJ	0.30	0/3465	0.61	2/4697 (0.0%)
24	WL	0.31	0/3420	0.65	5/4636 (0.1%)
24	WN	0.31	0/3471	0.64	3/4705 (0.1%)
24	XB	0.30	0/3412	0.63	4/4625 (0.1%)
24	XD	0.29	0/3412	0.60	1/4625 (0.0%)
24	XF	0.30	0/3412	0.61	2/4625 (0.0%)
24	XH	0.30	0/3412	0.59	1/4625 (0.0%)
24	XJ	0.30	0/3412	0.61	3/4625 (0.1%)
24	XL	0.30	0/3412	0.61	1/4625 (0.0%)
24	XN	0.30	0/3412	0.58	0/4625
24	YB	0.29	0/3412	0.59	2/4625 (0.0%)
24	YD	0.31	0/3406	0.68	2/4617 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
24	YF	0.28	0/3412	0.58	1/4625 (0.0%)
24	YH	0.30	0/3412	0.61	2/4625 (0.0%)
24	YJ	0.29	0/3412	0.62	4/4625 (0.1%)
24	YL	0.30	0/3412	0.62	3/4625 (0.1%)
24	YN	0.30	0/3412	0.61	3/4625 (0.1%)
24	YP	0.30	0/3412	0.65	5/4625 (0.1%)
24	ZB	0.30	0/3404	0.62	3/4614 (0.1%)
24	ZD	0.31	0/3404	0.68	3/4614 (0.1%)
24	ZF	0.30	0/3412	0.62	0/4625
24	ZH	0.29	0/3412	0.59	0/4625
24	ZJ	0.29	0/3412	0.61	0/4625
24	ZL	0.30	0/3412	0.63	1/4625 (0.0%)
24	ZN	0.28	0/3412	0.60	0/4625
24	ZP	0.30	0/3412	0.63	4/4625 (0.1%)
25	NC	0.29	0/3428	0.63	1/4639 (0.0%)
25	NE	0.29	0/3428	0.63	4/4639 (0.1%)
25	NG	0.29	0/3428	0.64	1/4639 (0.0%)
25	NI	0.29	0/3428	0.61	1/4639 (0.0%)
25	NK	0.29	0/3428	0.64	2/4639 (0.0%)
25	NM	0.30	0/3428	0.62	1/4639 (0.0%)
25	NO	0.29	0/3428	0.63	1/4639 (0.0%)
25	OC	0.30	0/3428	0.61	1/4639 (0.0%)
25	OE	0.30	0/3428	0.64	2/4639 (0.0%)
25	OG	0.30	0/3428	0.64	1/4639 (0.0%)
25	OI	0.30	0/3439	0.63	4/4654 (0.1%)
25	OK	0.29	0/3428	0.60	0/4639
25	OM	0.30	0/3428	0.68	4/4639 (0.1%)
25	OO	0.29	0/3428	0.65	1/4639 (0.0%)
25	OQ	0.29	0/3439	0.63	2/4654 (0.0%)
25	PC	0.29	0/3428	0.60	1/4639 (0.0%)
25	PE	0.28	0/3439	0.63	1/4654 (0.0%)
25	PG	0.30	0/3428	0.63	0/4639
25	PI	0.30	0/3428	0.62	1/4639 (0.0%)
25	PK	0.29	0/3428	0.60	3/4639 (0.1%)
25	PM	0.33	0/3428	0.66	1/4639 (0.0%)
25	PO	0.29	0/3428	0.61	1/4639 (0.0%)
25	PQ	0.30	0/3428	0.60	0/4639
25	QC	0.29	0/3428	0.61	0/4639
25	QE	0.29	0/3439	0.61	0/4654
25	QG	0.31	0/3433	0.65	2/4646 (0.0%)
25	QI	0.30	0/3428	0.62	3/4639 (0.1%)
25	QK	0.29	0/3428	0.62	1/4639 (0.0%)
25	QM	0.30	0/3439	0.64	2/4654 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
25	QO	0.30	0/3428	0.64	3/4639 (0.1%)
25	QQ	0.30	0/3428	0.62	1/4639 (0.0%)
25	RC	0.30	0/3428	0.62	0/4639
25	RE	0.30	0/3428	0.63	2/4639 (0.0%)
25	RG	0.30	0/3428	0.65	1/4639 (0.0%)
25	RI	0.29	0/3428	0.62	0/4639
25	RK	0.30	0/3428	0.63	2/4639 (0.0%)
25	RM	0.30	0/3428	0.61	0/4639
25	RO	0.30	0/3428	0.62	0/4639
25	SC	0.31	0/3428	0.66	1/4639 (0.0%)
25	SE	0.30	0/3428	0.64	2/4639 (0.0%)
25	SG	0.30	0/3428	0.61	0/4639
25	SI	0.29	0/3428	0.63	1/4639 (0.0%)
25	SK	0.29	0/3428	0.61	0/4639
25	SM	0.30	0/3428	0.66	2/4639 (0.0%)
25	SO	0.30	0/3428	0.62	3/4639 (0.1%)
25	TC	0.29	0/3428	0.61	2/4639 (0.0%)
25	TE	0.29	0/3428	0.63	2/4639 (0.0%)
25	TG	0.30	0/3428	0.64	1/4639 (0.0%)
25	TI	0.30	0/3428	0.62	2/4639 (0.0%)
25	TK	0.32	0/3428	0.67	3/4639 (0.1%)
25	TM	0.30	0/3428	0.62	0/4639
25	TO	0.29	0/3428	0.63	1/4639 (0.0%)
25	UC	0.29	0/3462	0.61	2/4685 (0.0%)
25	UE	0.29	0/3428	0.60	1/4639 (0.0%)
25	UG	0.31	0/3428	0.61	0/4639
25	UI	0.29	0/3453	0.61	2/4673 (0.0%)
25	UK	0.32	0/3462	0.66	1/4685 (0.0%)
25	UM	0.28	0/3428	0.59	1/4639 (0.0%)
25	UO	0.30	0/3428	0.62	1/4639 (0.0%)
25	VC	0.28	0/3428	0.62	2/4639 (0.0%)
25	VE	0.29	0/3428	0.62	1/4639 (0.0%)
25	VG	0.30	0/3428	0.59	2/4639 (0.0%)
25	VI	0.31	0/3453	0.64	2/4673 (0.0%)
25	VK	0.30	0/3428	0.60	1/4639 (0.0%)
25	VM	0.29	0/3433	0.62	2/4646 (0.0%)
25	VO	0.30	0/3428	0.62	3/4639 (0.1%)
25	WA	0.28	0/3444	0.61	2/4661 (0.0%)
25	WC	0.29	0/3428	0.59	1/4639 (0.0%)
25	WE	0.29	0/3444	0.60	0/4661
25	WG	0.29	0/3428	0.61	2/4639 (0.0%)
25	WI	0.29	0/3444	0.60	1/4661 (0.0%)
25	WK	0.29	0/3428	0.61	3/4639 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
25	WM	0.28	0/3444	0.60	2/4661 (0.0%)
25	WO	0.28	0/3428	0.60	1/4639 (0.0%)
25	XA	0.30	0/3428	0.61	0/4639
25	XC	0.29	0/3428	0.60	0/4639
25	XE	0.28	0/3428	0.60	1/4639 (0.0%)
25	XG	0.28	0/3428	0.59	1/4639 (0.0%)
25	XI	0.29	0/3433	0.59	1/4646 (0.0%)
25	XK	0.30	0/3428	0.61	0/4639
25	XM	0.29	0/3433	0.63	4/4646 (0.1%)
25	XO	0.29	0/3428	0.64	3/4639 (0.1%)
25	YC	0.29	0/3433	0.60	0/4646
25	YE	0.28	0/3428	0.59	1/4639 (0.0%)
25	YG	0.29	0/3428	0.59	2/4639 (0.0%)
25	YI	0.31	0/3444	0.63	0/4661
25	YK	0.30	0/3433	0.60	1/4646 (0.0%)
25	YM	0.31	0/3433	0.62	1/4646 (0.0%)
25	YO	0.32	0/3433	0.67	2/4646 (0.0%)
25	ZC	0.29	0/3428	0.61	1/4639 (0.0%)
25	ZE	0.30	0/3428	0.62	1/4639 (0.0%)
25	ZG	0.29	0/3428	0.62	1/4639 (0.0%)
25	ZI	0.28	0/3428	0.60	2/4639 (0.0%)
25	ZK	0.30	0/3428	0.65	1/4639 (0.0%)
25	ZM	0.29	0/3428	0.61	1/4639 (0.0%)
25	ZO	0.31	0/3428	0.67	2/4639 (0.0%)
26	O0	0.28	0/6204	0.56	1/8520 (0.0%)
26	O1	0.31	0/4301	0.62	0/5844
26	O2	0.41	0/1007	0.81	0/1356
27	P0	0.24	0/1746	0.35	0/2422
27	P1	0.24	0/3551	0.35	0/4926
27	P2	0.23	0/3601	0.34	0/4997
27	P3	0.24	0/3601	0.34	0/4997
28	Q0	0.30	0/18312	0.65	5/24965 (0.0%)
28	Q1	0.30	0/18322	0.66	13/24979 (0.1%)
29	R0	0.26	0/10920	0.42	2/15102 (0.0%)
29	R1	0.25	0/10970	0.42	3/15173 (0.0%)
30	S0	0.28	0/1218	0.56	0/1645
30	S1	0.25	0/1218	0.50	0/1645
30	S2	0.32	0/1218	0.73	1/1645 (0.1%)
30	S3	0.27	0/1191	0.55	0/1607
32	T0	0.28	0/3375	0.60	1/4623 (0.0%)
32	T1	0.28	0/3472	0.60	2/4759 (0.0%)
32	T2	0.31	1/3391 (0.0%)	0.62	1/4646 (0.0%)
32	T3	0.26	0/1538	0.48	0/2134

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
33	U0	0.29	0/1670	0.67	1/2244 (0.0%)
33	U1	0.28	0/1670	0.65	0/2244
34	V0	0.26	0/954	0.52	0/1312
34	V1	0.26	0/917	0.51	0/1257
35	W0	0.25	0/5213	0.30	0/7247
35	W1	0.25	0/4745	0.30	0/6591
39	X0	0.28	0/5381	0.64	4/7379 (0.1%)
39	X1	0.29	0/5381	0.65	6/7379 (0.1%)
39	X2	0.27	0/5381	0.64	4/7379 (0.1%)
39	X3	0.28	0/5381	0.67	4/7379 (0.1%)
40	Y0	0.29	0/3664	0.59	1/4941 (0.0%)
40	Y1	0.29	0/3664	0.60	0/4941
40	Y2	0.29	0/3664	0.59	0/4941
40	Y3	0.30	0/3664	0.65	3/4941 (0.1%)
40	Y4	0.29	0/3664	0.62	0/4941
40	Y5	0.29	0/3664	0.61	1/4941 (0.0%)
40	Y6	0.30	0/3664	0.61	2/4941 (0.0%)
40	Y7	0.32	0/3664	0.64	1/4941 (0.0%)
41	Z0	0.28	0/4665	0.60	1/6296 (0.0%)
41	Z1	0.28	0/4665	0.61	1/6296 (0.0%)
41	Z2	0.28	0/4665	0.62	2/6296 (0.0%)
41	Z3	0.31	0/4665	0.67	4/6296 (0.1%)
All	All	0.29	2/1228572 (0.0%)	0.60	555/1671880 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	1B	0	1
2	1C	0	1
2	1D	0	1
18	C0	0	1
18	C1	0	3
18	C2	0	1
18	C3	0	4
19	D2	0	1
19	D3	0	1
19	G0	0	2
19	G1	0	1
19	G4	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
19	H0	0	1
19	H3	0	1
19	H6	0	1
19	K2	0	2
19	L0	0	2
19	L3	0	1
21	F0	0	1
21	F2	0	1
21	F3	0	1
22	M1	0	1
24	NB	0	1
24	ND	0	1
24	NF	0	1
24	NH	0	1
24	NJ	0	1
24	NL	0	1
24	NN	0	1
24	OD	0	1
24	OF	0	1
24	OH	0	1
24	OJ	0	1
24	OL	0	1
24	ON	0	1
24	OP	0	1
24	PD	0	1
24	PF	0	1
24	PH	0	1
24	PJ	0	1
24	PL	0	2
24	PN	0	1
24	PP	0	2
24	QD	0	1
24	QF	0	1
24	QH	0	1
24	QJ	0	1
24	QL	0	1
24	QN	0	1
24	QP	0	1
24	RD	0	1
24	RF	0	1
24	RH	0	1
24	RJ	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
24	RL	0	1
24	RN	0	1
24	RP	0	1
24	SB	0	1
24	SD	0	1
24	SF	0	1
24	SH	0	1
24	SJ	0	1
24	SL	0	1
24	SN	0	1
24	SP	0	1
24	TB	0	1
24	TD	0	1
24	TF	0	1
24	TH	0	1
24	TJ	0	1
24	TL	0	1
24	TN	0	1
24	TP	0	1
24	UB	0	1
24	UD	0	1
24	UF	0	1
24	UH	0	1
24	UJ	0	1
24	UL	0	1
24	UN	0	1
24	UP	0	1
24	VB	0	1
24	VD	0	1
24	VF	0	1
24	VH	0	1
24	VJ	0	1
24	VL	0	1
24	VN	0	1
24	VP	0	1
24	WB	0	1
24	WD	0	1
24	WF	0	1
24	WH	0	1
24	WJ	0	1
24	WL	0	1
24	WN	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
24	XB	0	1
24	XD	0	1
24	XF	0	1
24	XH	0	1
24	XJ	0	1
24	XL	0	1
24	XN	0	1
24	YB	0	1
24	YD	0	1
24	YF	0	1
24	YH	0	1
24	YJ	0	1
24	YL	0	1
24	YN	0	1
24	YP	0	1
24	ZB	0	1
24	ZD	0	1
24	ZF	0	1
24	ZH	0	2
24	ZJ	0	1
24	ZL	0	1
24	ZN	0	1
24	ZP	0	1
25	OE	0	1
25	OI	0	1
25	PE	0	1
25	QK	0	2
25	QQ	0	1
25	RG	0	1
25	RK	0	1
25	SC	0	1
25	TC	0	2
25	TG	0	1
25	YE	0	1
25	YG	0	1
25	ZG	0	1
28	Q0	0	1
28	Q1	0	2
40	Y5	0	1
40	Y7	0	1
All	All	0	151

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
32	T2	487	LYS	C-N	5.94	1.47	1.34
18	C3	916	PRO	CG-CD	-5.36	1.32	1.50

All (555) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	K1	225	LEU	CA-CB-CG	11.44	141.61	115.30
2	1D	1814	LEU	CA-CB-CG	11.10	140.83	115.30
39	X1	597	PRO	CA-N-CD	-10.29	97.10	111.50
19	J3	63	LEU	CA-CB-CG	10.20	138.75	115.30
18	C3	916	PRO	CA-N-CD	-9.97	97.55	111.50
19	L3	311	LEU	CA-CB-CG	9.55	137.27	115.30
25	SM	197	ASP	CB-CG-OD2	8.71	126.14	118.30
19	K2	31	PRO	CA-N-CD	-8.71	99.31	111.50
29	R0	2013	ALA	C-N-CA	8.59	158.09	122.00
29	R1	2013	ALA	C-N-CA	8.57	158.00	122.00
19	L2	12	ARG	CB-CG-CD	8.53	133.77	111.60
25	UK	197	ASP	CB-CG-OD2	8.39	125.85	118.30
2	1C	1282	PRO	CA-N-CD	-8.30	99.88	111.50
25	PE	161	ASP	CB-CG-OD1	8.29	125.76	118.30
24	OH	322	ASP	CB-CG-OD2	8.19	125.67	118.30
39	X0	310	ASP	CB-CG-OD1	8.05	125.55	118.30
41	Z2	329	ASP	CB-CG-OD1	8.03	125.53	118.30
24	OP	396	ASP	CB-CG-OD1	8.00	125.50	118.30
18	C1	838	ARG	CG-CD-NE	8.00	128.59	111.80
16	A0	132	PRO	CA-N-CD	-7.93	100.40	111.50
24	VL	424	ASP	CB-CG-OD1	7.88	125.39	118.30
24	OF	127	ASP	CB-CG-OD1	7.83	125.34	118.30
25	VC	161	ASP	CB-CG-OD1	7.82	125.34	118.30
24	UL	33	ASP	CB-CG-OD2	7.76	125.29	118.30
24	WD	367	ASP	CB-CG-OD1	7.74	125.27	118.30
25	PC	114	ASP	CB-CG-OD1	7.73	125.26	118.30
24	RN	392	ASP	CB-CG-OD2	7.71	125.24	118.30
25	NE	161	ASP	CB-CG-OD1	7.65	125.18	118.30
24	WN	205	ASP	CB-CG-OD1	7.62	125.16	118.30
19	I0	311	LEU	CA-CB-CG	7.61	132.81	115.30
25	OI	203	ASP	CB-CG-OD1	7.59	125.13	118.30
25	SE	118	ASP	CB-CG-OD1	7.57	125.11	118.30
24	OF	33	ASP	CB-CG-OD1	7.55	125.10	118.30
24	PF	245	ASP	CB-CG-OD1	7.54	125.08	118.30
39	X0	223	LEU	CA-CB-CG	7.53	132.62	115.30
24	ZP	211	ASP	CB-CG-OD1	7.52	125.06	118.30
25	NC	114	ASP	CB-CG-OD2	7.51	125.06	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	X3	223	LEU	CA-CB-CG	7.50	132.54	115.30
24	TN	345	ASP	CB-CG-OD2	7.49	125.04	118.30
25	TG	161	ASP	CB-CG-OD2	7.48	125.03	118.30
24	QN	345	ASP	CB-CG-OD1	7.46	125.02	118.30
24	XJ	33	ASP	CB-CG-OD2	7.45	125.01	118.30
32	T2	487	LYS	C-N-CA	7.42	140.26	121.70
24	XD	98	ASP	CB-CG-OD1	7.42	124.98	118.30
40	Y7	323	LEU	CA-CB-CG	7.41	132.33	115.30
18	C1	712	LEU	CA-CB-CG	7.37	132.25	115.30
17	B0	551	LEU	CA-CB-CG	7.35	132.21	115.30
25	YK	41	ASP	CB-CG-OD1	7.35	124.91	118.30
18	C3	916	PRO	N-CD-CG	-7.34	92.19	103.20
24	NN	424	ASP	CB-CG-OD1	7.33	124.90	118.30
19	H3	186	ILE	CG1-CB-CG2	-7.30	95.34	111.40
25	OI	263	LEU	CA-CB-CG	7.30	132.08	115.30
24	TJ	345	ASP	CB-CG-OD2	7.27	124.84	118.30
25	ZM	177	ASP	CB-CG-OD1	7.27	124.84	118.30
25	QM	327	ASP	CB-CG-OD2	7.26	124.84	118.30
24	NB	367	ASP	CB-CG-OD1	7.25	124.83	118.30
25	UC	114	ASP	CB-CG-OD1	7.25	124.82	118.30
2	1A	2083	PRO	CA-N-CD	-7.24	101.37	111.50
25	XM	161	ASP	CB-CG-OD1	7.23	124.81	118.30
24	UJ	33	ASP	CB-CG-OD2	7.22	124.80	118.30
24	TH	345	ASP	CB-CG-OD2	7.21	124.79	118.30
24	WF	259	LEU	CA-CB-CG	7.21	131.88	115.30
24	WF	33	ASP	CB-CG-OD1	7.20	124.78	118.30
19	D4	138	ASP	CB-CG-OD2	7.19	124.77	118.30
24	QP	39	ASP	CB-CG-OD1	7.18	124.77	118.30
24	SF	396	ASP	CB-CG-OD1	7.18	124.76	118.30
24	OL	199	ASP	CB-CG-OD1	7.17	124.75	118.30
19	L1	92	LEU	CA-CB-CG	7.16	131.76	115.30
25	VC	88	ASP	CB-CG-OD1	7.15	124.73	118.30
25	QQ	41	ASP	CB-CG-OD2	7.12	124.70	118.30
28	Q0	98	LEU	CA-CB-CG	7.09	131.62	115.30
24	YJ	33	ASP	CB-CG-OD2	7.07	124.67	118.30
40	Y3	57	ASP	CB-CG-OD1	7.05	124.64	118.30
18	C1	780	LEU	CA-CB-CG	7.04	131.50	115.30
25	XM	118	ASP	CB-CG-OD1	7.02	124.61	118.30
19	L3	92	LEU	CA-CB-CG	7.01	131.43	115.30
39	X3	279	LEU	CA-CB-CG	7.01	131.43	115.30
24	XJ	424	ASP	CB-CG-OD2	7.01	124.61	118.30
25	VM	26	ASP	CB-CG-OD1	7.01	124.61	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	SI	118	ASP	CB-CG-OD2	6.99	124.59	118.30
18	C2	24	ASP	CB-CG-OD2	6.98	124.58	118.30
19	H7	48	PRO	CA-N-CD	-6.95	101.77	111.50
25	TI	289	LEU	CA-CB-CG	6.95	131.28	115.30
25	XG	284	LEU	CA-CB-CG	6.94	131.27	115.30
24	YP	431	ASP	CB-CG-OD1	6.93	124.54	118.30
18	C3	717	MET	CG-SD-CE	6.93	111.29	100.20
25	NM	118	ASP	CB-CG-OD1	6.89	124.50	118.30
25	RE	224	ASP	CB-CG-OD1	6.89	124.50	118.30
25	VE	417	ASP	CB-CG-OD1	6.89	124.50	118.30
24	NN	127	ASP	CB-CG-OD1	6.85	124.47	118.30
2	1D	2077	LEU	CA-CB-CG	6.82	130.99	115.30
19	H7	201	LEU	CA-CB-CG	6.82	130.98	115.30
19	G0	383	LEU	CA-CB-CG	6.81	130.97	115.30
25	UE	224	ASP	CB-CG-OD1	6.80	124.42	118.30
28	Q1	259	LEU	CA-CB-CG	6.78	130.89	115.30
32	T1	583	LEU	CA-CB-CG	6.77	130.88	115.30
19	G2	73	ASP	CB-CG-OD1	6.77	124.39	118.30
19	H7	257	LEU	CA-CB-CG	6.77	130.87	115.30
24	QP	46	ASP	CB-CG-OD2	6.75	124.38	118.30
25	WM	355	ASP	CB-CG-OD1	6.74	124.37	118.30
24	YP	69	ASP	CB-CG-OD1	6.74	124.37	118.30
24	VL	345	ASP	CB-CG-OD1	6.73	124.36	118.30
28	Q1	98	LEU	CA-CB-CG	6.73	130.77	115.30
25	TK	39	ASP	CB-CG-OD2	6.72	124.35	118.30
25	PK	203	ASP	CB-CG-OD2	6.71	124.34	118.30
28	Q1	3037	ASP	CB-CG-OD2	6.69	124.32	118.30
24	XL	120	ASP	CB-CG-OD1	6.69	124.32	118.30
18	C2	1451	LEU	CA-CB-CG	6.66	130.61	115.30
25	OM	31	ASP	CB-CG-OD2	6.64	124.28	118.30
25	VO	26	ASP	CB-CG-OD2	6.63	124.27	118.30
24	ZL	345	ASP	CB-CG-OD2	6.63	124.27	118.30
24	QF	116	ASP	CB-CG-OD1	6.63	124.27	118.30
19	D3	311	LEU	CA-CB-CG	6.63	130.54	115.30
19	H5	222	ASP	CB-CG-OD1	6.62	124.26	118.30
39	X2	597	PRO	CA-N-CD	-6.60	102.26	111.50
24	YD	116	ASP	CB-CG-OD1	6.59	124.23	118.30
2	1D	76	LEU	CA-CB-CG	6.59	130.45	115.30
25	ZK	197	ASP	CB-CG-OD2	6.58	124.22	118.30
24	NH	245	ASP	CB-CG-OD2	6.58	124.22	118.30
19	J1	311	LEU	CA-CB-CG	6.57	130.41	115.30
39	X2	279	LEU	CA-CB-CG	6.57	130.40	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	J3	311	LEU	CA-CB-CG	6.54	130.35	115.30
2	1B	1258	LEU	CA-CB-CG	6.54	130.34	115.30
24	TB	218	ASP	CB-CG-OD1	6.54	124.18	118.30
19	J3	337	LEU	CA-CB-CG	6.52	130.30	115.30
25	VI	404	ASP	CB-CG-OD1	6.52	124.17	118.30
24	ZB	322	ASP	CB-CG-OD1	6.52	124.16	118.30
19	J3	185	ARG	CB-CG-CD	6.50	128.50	111.60
39	X1	597	PRO	N-CD-CG	-6.50	93.45	103.20
25	TC	284	LEU	CA-CB-CG	6.50	130.25	115.30
25	YO	197	ASP	CB-CG-OD2	6.49	124.14	118.30
24	ON	205	ASP	CB-CG-OD1	6.49	124.14	118.30
24	YH	218	ASP	CB-CG-OD2	6.49	124.14	118.30
24	YP	218	ASP	CB-CG-OD1	6.49	124.14	118.30
19	D6	311	LEU	CA-CB-CG	6.47	130.19	115.30
24	XJ	218	ASP	CB-CG-OD2	6.47	124.12	118.30
19	H7	360	LEU	CB-CG-CD2	-6.46	100.01	111.00
19	L0	74	ASP	CB-CG-OD2	6.46	124.12	118.30
25	PO	395	LEU	CA-CB-CG	6.46	130.17	115.30
17	B1	352	ASP	CB-CG-OD2	6.45	124.11	118.30
24	UD	322	ASP	CB-CG-OD1	6.45	124.11	118.30
24	SF	217	LEU	CA-CB-CG	6.45	130.14	115.30
24	TN	245	ASP	CB-CG-OD2	6.45	124.11	118.30
19	D3	276	ARG	CG-CD-NE	6.45	125.34	111.80
19	D4	311	LEU	CA-CB-CG	6.45	130.13	115.30
17	B0	762	ARG	CG-CD-NE	-6.44	98.27	111.80
24	SB	218	ASP	CB-CG-OD1	6.44	124.10	118.30
25	VI	304	ASP	CB-CG-OD2	6.44	124.10	118.30
24	QH	245	ASP	CB-CG-OD2	6.44	124.09	118.30
25	PK	67	ASP	CB-CG-OD2	6.42	124.08	118.30
24	OP	33	ASP	CB-CG-OD1	6.41	124.07	118.30
19	D0	52	ASP	CB-CG-OD1	6.40	124.06	118.30
16	A1	98	LEU	CA-CB-CG	6.38	129.98	115.30
18	C1	1203	ARG	CG-CD-NE	6.38	125.20	111.80
24	UJ	76	ASP	CB-CG-OD1	6.38	124.04	118.30
19	H3	185	ARG	CG-CD-NE	6.37	125.17	111.80
24	UP	367	ASP	CB-CG-OD1	6.37	124.03	118.30
19	K2	184	LYS	CA-CB-CG	6.36	127.40	113.40
25	OQ	427	ASP	CB-CG-OD1	6.36	124.03	118.30
33	U0	185	PRO	CA-N-CD	-6.36	102.59	111.50
25	NE	284	LEU	CA-CB-CG	6.36	129.92	115.30
18	C1	416	ARG	CA-CB-CG	6.35	127.38	113.40
25	ZC	118	ASP	CB-CG-OD1	6.34	124.01	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
28	Q0	1524	ASP	CB-CG-OD1	6.33	123.99	118.30
39	X0	279	LEU	CA-CB-CG	6.31	129.81	115.30
19	L2	138	ASP	CB-CG-OD1	6.31	123.98	118.30
14	8A	244	LEU	CB-CG-CD2	-6.30	100.29	111.00
25	TK	163	MET	CA-CB-CG	6.30	124.01	113.30
25	WC	284	LEU	CA-CB-CG	6.30	129.79	115.30
19	I1	311	LEU	CA-CB-CG	6.30	129.78	115.30
24	QH	345	ASP	CB-CG-OD2	6.29	123.96	118.30
25	QG	287	PRO	CA-N-CD	-6.29	102.70	111.50
24	SD	218	ASP	CB-CG-OD1	6.28	123.96	118.30
18	C1	416	ARG	CB-CG-CD	6.28	127.92	111.60
39	X1	279	LEU	CA-CB-CG	6.27	129.72	115.30
20	E0	55	ASP	CB-CG-OD1	6.27	123.94	118.30
24	SN	322	ASP	CB-CG-OD2	6.26	123.94	118.30
19	D5	73	ASP	CB-CG-OD2	6.26	123.93	118.30
25	NE	65	LEU	CA-CB-CG	6.24	129.65	115.30
24	SB	217	LEU	CA-CB-CG	6.24	129.64	115.30
20	E3	342	LEU	CA-CB-CG	6.22	129.61	115.30
18	C0	1315	LEU	CA-CB-CG	6.21	129.59	115.30
19	D3	233	LEU	CA-CB-CG	6.20	129.57	115.30
25	NK	304	ASP	CB-CG-OD2	6.20	123.88	118.30
25	TE	39	ASP	CB-CG-OD1	6.20	123.88	118.30
24	WL	392	ASP	CB-CG-OD2	6.19	123.88	118.30
19	G1	143	GLU	CA-CB-CG	6.19	127.02	113.40
18	C3	1585	ARG	CA-CB-CG	6.19	127.01	113.40
24	WL	345	ASP	CB-CG-OD2	6.18	123.87	118.30
39	X2	159	LEU	CA-CB-CG	6.18	129.52	115.30
25	WG	128	ASP	CB-CG-OD2	6.18	123.86	118.30
25	ZI	295	ASP	CB-CG-OD2	6.18	123.86	118.30
24	YN	33	ASP	CB-CG-OD1	6.17	123.86	118.30
25	OM	41	ASP	CB-CG-OD2	6.17	123.85	118.30
25	VG	26	ASP	CB-CG-OD1	6.16	123.85	118.30
19	G0	74	ASP	CB-CG-OD2	6.15	123.84	118.30
4	2A	339	LEU	CA-CB-CG	6.15	129.45	115.30
19	J1	337	LEU	CA-CB-CG	6.15	129.45	115.30
28	Q0	1139	LEU	CA-CB-CG	6.15	129.45	115.30
24	TH	245	ASP	CB-CG-OD2	6.15	123.83	118.30
39	X1	310	ASP	CB-CG-OD2	6.14	123.83	118.30
25	SO	67	ASP	CB-CG-OD1	6.14	123.83	118.30
25	TC	171	PRO	C-N-CA	6.14	137.04	121.70
25	XO	284	LEU	CA-CB-CG	6.13	129.41	115.30
24	ZD	345	ASP	CB-CG-OD1	6.13	123.82	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
32	T0	583	LEU	CA-CB-CG	6.13	129.39	115.30
25	VO	67	ASP	CB-CG-OD2	6.12	123.81	118.30
24	RP	345	ASP	CB-CG-OD2	6.12	123.81	118.30
24	XB	431	ASP	CB-CG-OD1	6.10	123.79	118.30
2	1C	1263	GLY	C-N-CA	6.09	136.93	121.70
24	TP	345	ASP	CB-CG-OD1	6.08	123.77	118.30
24	UL	230	LEU	CA-CB-CG	6.08	129.29	115.30
24	UB	76	ASP	CB-CG-OD1	6.07	123.76	118.30
20	E1	82	LEU	CA-CB-CG	6.07	129.26	115.30
19	D0	311	LEU	CA-CB-CG	6.07	129.25	115.30
24	XH	76	ASP	CB-CG-OD1	6.06	123.75	118.30
19	L3	315	MET	CA-CB-CG	6.06	123.59	113.30
29	R1	168	LEU	CA-CB-CG	6.05	129.21	115.30
39	X1	236	ASP	CB-CG-OD2	6.03	123.73	118.30
25	OI	304	ASP	CB-CG-OD1	6.02	123.72	118.30
28	Q0	775	LEU	CA-CB-CG	6.02	129.15	115.30
28	Q1	163	ASP	CB-CG-OD1	6.02	123.72	118.30
24	XB	205	ASP	CB-CG-OD1	6.02	123.72	118.30
40	Y0	286	MET	CA-CB-CG	6.01	123.52	113.30
41	Z2	587	LEU	CA-CB-CG	6.01	129.13	115.30
19	D4	317	LEU	CA-CB-CG	6.01	129.13	115.30
14	8A	224	ASP	CB-CG-OD1	6.01	123.71	118.30
29	R0	236	LEU	CA-CB-CG	6.00	129.10	115.30
25	VM	118	ASP	CB-CG-OD1	5.99	123.69	118.30
24	RF	205	ASP	CB-CG-OD1	5.99	123.69	118.30
25	UI	88	ASP	CB-CG-OD1	5.98	123.68	118.30
19	L0	128	ASP	CB-CG-OD1	5.97	123.68	118.30
19	D5	183	LEU	CB-CG-CD1	-5.97	100.85	111.00
25	OQ	284	LEU	CA-CB-CG	5.97	129.02	115.30
19	D5	225	LEU	CA-CB-CG	5.96	129.02	115.30
40	Y3	143	ASP	CB-CG-OD1	5.96	123.66	118.30
41	Z3	445	LEU	CA-CB-CG	5.96	129.00	115.30
25	XI	177	ASP	CB-CG-OD1	5.96	123.66	118.30
25	TI	112	LEU	CA-CB-CG	5.94	128.97	115.30
19	D2	344	LEU	CB-CG-CD2	-5.94	100.91	111.00
25	WM	427	ASP	CB-CG-OD1	5.93	123.64	118.30
25	OE	41	ASP	CB-CG-OD1	5.92	123.63	118.30
25	OE	284	LEU	CA-CB-CG	5.92	128.92	115.30
16	A3	164	LEU	CA-CB-CG	5.92	128.92	115.30
24	UN	46	ASP	CB-CG-OD1	5.92	123.63	118.30
25	VG	327	ASP	CB-CG-OD1	5.92	123.63	118.30
24	YJ	259	LEU	CA-CB-CG	5.92	128.91	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	1D	1282	PRO	CA-N-CD	-5.92	103.22	111.50
24	YL	33	ASP	CB-CG-OD2	5.92	123.62	118.30
18	C1	1306	LEU	CA-CB-CG	5.91	128.90	115.30
25	PK	249	ASP	CB-CG-OD2	5.91	123.62	118.30
28	Q1	530	MET	CG-SD-CE	-5.91	90.74	100.20
25	UO	284	LEU	CA-CB-CG	5.91	128.89	115.30
18	C2	1315	LEU	CA-CB-CG	5.91	128.88	115.30
24	YP	327	ASP	CB-CG-OD1	5.89	123.61	118.30
18	C3	1208	LEU	CA-CB-CG	5.88	128.84	115.30
25	SO	88	ASP	CB-CG-OD2	5.88	123.59	118.30
19	H6	134	LEU	CA-CB-CG	5.87	128.81	115.30
24	TL	218	ASP	CB-CG-OD2	5.87	123.58	118.30
14	8A	244	LEU	CB-CG-CD1	5.84	120.94	111.00
24	QL	428	LEU	CA-CB-CG	5.84	128.73	115.30
18	C1	419	ARG	CA-CB-CG	5.83	126.23	113.40
24	RD	116	ASP	CB-CG-OD1	5.83	123.55	118.30
24	PP	431	ASP	CB-CG-OD2	5.83	123.55	118.30
24	XF	251	ASP	CB-CG-OD1	5.83	123.55	118.30
24	TF	367	ASP	CB-CG-OD1	5.82	123.54	118.30
24	VJ	327	ASP	CB-CG-OD1	5.82	123.54	118.30
24	XF	367	ASP	CB-CG-OD1	5.81	123.53	118.30
25	ZG	161	ASP	CB-CG-OD1	5.81	123.53	118.30
18	C2	1468	GLU	CA-CB-CG	5.81	126.19	113.40
24	QL	367	ASP	CB-CG-OD1	5.81	123.53	118.30
2	1A	1258	LEU	CA-CB-CG	5.80	128.65	115.30
24	ZP	322	ASP	CB-CG-OD1	5.80	123.52	118.30
24	RL	424	ASP	CB-CG-OD1	5.80	123.52	118.30
24	VH	345	ASP	CB-CG-OD2	5.80	123.52	118.30
19	G5	73	ASP	CB-CG-OD2	5.79	123.52	118.30
23	N2	142	LEU	CA-CB-CG	5.79	128.62	115.30
19	G0	50	LEU	CA-CB-CG	5.79	128.61	115.30
25	YE	284	LEU	CA-CB-CG	5.77	128.58	115.30
19	H4	311	LEU	CA-CB-CG	5.77	128.58	115.30
25	WA	304	ASP	CB-CG-OD2	5.76	123.49	118.30
25	XO	171	PRO	C-N-CA	5.76	136.11	121.70
24	WJ	218	ASP	CB-CG-OD1	5.76	123.48	118.30
2	1D	1321	LEU	CA-CB-CG	5.74	128.51	115.30
24	UN	411	GLU	CA-CB-CG	5.74	126.04	113.40
25	QM	118	ASP	CB-CG-OD2	5.74	123.46	118.30
17	B2	323	LEU	CA-CB-CG	5.74	128.50	115.30
39	X3	159	LEU	CA-CB-CG	5.74	128.49	115.30
24	VH	424	ASP	CB-CG-OD2	5.72	123.45	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	WK	395	LEU	CA-CB-CG	5.72	128.47	115.30
25	UM	164	MET	CA-CB-CG	5.72	123.03	113.30
32	T1	519	LEU	CA-CB-CG	5.72	128.45	115.30
25	ZO	161	ASP	CB-CG-OD2	5.71	123.44	118.30
25	OI	284	LEU	CA-CB-CG	5.71	128.43	115.30
19	D7	138	ASP	CB-CG-OD2	5.71	123.44	118.30
25	WG	284	LEU	CA-CB-CG	5.70	128.41	115.30
24	QL	345	ASP	CB-CG-OD1	5.70	123.43	118.30
24	WD	194	LEU	CA-CB-CG	5.70	128.41	115.30
24	ZB	413	MET	CA-CB-CG	5.69	122.98	113.30
25	QO	252	LYS	CB-CG-CD	5.69	126.40	111.60
24	ND	98	ASP	CB-CG-OD1	5.69	123.42	118.30
18	C0	838	ARG	CG-CD-NE	5.68	123.72	111.80
28	Q0	2013	LEU	CA-CB-CG	5.68	128.36	115.30
41	Z3	587	LEU	CA-CB-CG	5.68	128.36	115.30
28	Q1	496	ASP	CB-CG-OD1	5.67	123.41	118.30
25	WO	284	LEU	CA-CB-CG	5.67	128.35	115.30
19	H3	264	ASP	CB-CG-OD2	5.67	123.40	118.30
24	NF	217	LEU	CA-CB-CG	5.67	128.33	115.30
24	WJ	76	ASP	CB-CG-OD2	5.65	123.39	118.30
41	Z3	602	LEU	CA-CB-CG	5.64	128.28	115.30
28	Q1	276	ARG	CA-CB-CG	5.64	125.81	113.40
24	QH	218	ASP	CB-CG-OD1	5.64	123.38	118.30
25	QG	117	LEU	CA-CB-CG	5.64	128.27	115.30
40	Y6	207	MET	CB-CG-SD	5.63	129.30	112.40
24	YD	345	ASP	CB-CG-OD1	5.63	123.37	118.30
17	B2	456	ARG	CA-CB-CG	5.63	125.78	113.40
24	PJ	76	ASP	CB-CG-OD2	5.62	123.36	118.30
25	TO	209	ASP	CB-CG-OD2	5.62	123.36	118.30
25	ZO	418	LEU	CA-CB-CG	5.61	128.21	115.30
25	VK	304	ASP	CB-CG-OD2	5.61	123.35	118.30
20	E1	400	ASP	CB-CG-OD1	5.60	123.34	118.30
25	QI	217	LEU	CA-CB-CG	5.60	128.19	115.30
24	YN	397	LEU	CA-CB-CG	5.60	128.18	115.30
25	XE	284	LEU	CA-CB-CG	5.58	128.14	115.30
2	1C	2029	LEU	CA-CB-CG	5.58	128.13	115.30
19	H7	88	LEU	CA-CB-CG	5.57	128.11	115.30
24	WF	269	LEU	CA-CB-CG	5.56	128.10	115.30
25	UI	118	ASP	CB-CG-OD1	5.56	123.31	118.30
24	RN	345	ASP	CB-CG-OD2	5.56	123.30	118.30
2	1A	1428	LEU	CA-CB-CG	5.56	128.08	115.30
25	WK	284	LEU	CA-CB-CG	5.56	128.09	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	D0	138	ASP	CB-CG-OD1	5.55	123.30	118.30
19	J0	311	LEU	CA-CB-CG	5.55	128.06	115.30
18	C1	1436	LEU	CA-CB-CG	5.54	128.04	115.30
24	OL	327	ASP	CB-CG-OD1	5.54	123.29	118.30
21	F2	115	ASP	CB-CG-OD1	5.54	123.28	118.30
41	Z3	47	ASP	CB-CG-OD1	5.54	123.28	118.30
19	D1	276	ARG	CG-CD-NE	5.53	123.42	111.80
39	X1	159	LEU	CA-CB-CG	5.53	128.03	115.30
18	C2	1448	LEU	CA-CB-CG	5.53	128.02	115.30
2	1B	1933	LEU	CA-CB-CG	5.53	128.01	115.30
24	ZD	211	ASP	CB-CG-OD2	5.52	123.27	118.30
18	C3	780	LEU	CA-CB-CG	5.52	128.00	115.30
19	G3	179	PRO	CA-N-CD	-5.52	103.77	111.50
24	XB	218	ASP	CB-CG-OD1	5.52	123.27	118.30
2	1C	1258	LEU	CA-CB-CG	5.52	127.99	115.30
2	1D	59	LEU	CA-CB-CG	5.52	127.99	115.30
18	C4	260	LEU	CA-CB-CG	5.50	127.95	115.30
2	1B	1812	LEU	CA-CB-CG	5.50	127.95	115.30
25	QI	26	ASP	CB-CG-OD1	5.50	123.25	118.30
25	YG	117	LEU	CA-CB-CG	5.49	127.92	115.30
18	C1	1458	LEU	CA-CB-CG	5.48	127.91	115.30
25	XM	284	LEU	CA-CB-CG	5.48	127.91	115.30
25	YO	73	MET	CA-CB-CG	5.48	122.61	113.30
24	SB	413	MET	CA-CB-CG	5.48	122.61	113.30
24	SJ	199	ASP	CB-CG-OD1	5.47	123.23	118.30
18	C3	1451	LEU	CA-CB-CG	5.47	127.88	115.30
24	YP	302	MET	CB-CG-SD	5.47	128.81	112.40
2	1D	1314	ASP	CB-CG-OD1	5.46	123.22	118.30
24	RL	218	ASP	CB-CG-OD1	5.46	123.22	118.30
24	RP	424	ASP	CB-CG-OD1	5.46	123.21	118.30
24	TJ	98	ASP	CB-CG-OD1	5.46	123.21	118.30
25	RK	252	LYS	CB-CG-CD	5.45	125.78	111.60
24	XB	302	MET	CB-CG-SD	5.45	128.74	112.40
25	XO	249	ASP	CB-CG-OD1	5.45	123.20	118.30
39	X0	156	LEU	CA-CB-CG	5.45	127.83	115.30
18	C2	117	LEU	CA-CB-CG	5.45	127.82	115.30
25	WI	171	PRO	C-N-CA	5.44	135.31	121.70
24	ZP	230	LEU	CA-CB-CG	5.43	127.80	115.30
19	D2	264	ASP	CB-CG-OD1	5.43	123.19	118.30
24	OL	302	MET	CB-CG-SD	5.43	128.70	112.40
24	YL	218	ASP	CB-CG-OD2	5.43	123.19	118.30
41	Z0	47	ASP	CB-CG-OD1	5.43	123.19	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	D0	298	LEU	CA-CB-CG	5.42	127.77	115.30
24	RJ	47	ASP	CB-CG-OD2	5.42	123.18	118.30
19	H1	311	LEU	CA-CB-CG	5.42	127.77	115.30
19	H7	264	ASP	CB-CG-OD1	5.42	123.18	118.30
18	C2	1592	LEU	CA-CB-CG	5.42	127.76	115.30
24	YB	306	ASP	CB-CG-OD1	5.42	123.17	118.30
4	2B	217	LYS	C-N-CA	5.41	135.23	121.70
19	K0	257	LEU	CA-CB-CG	5.41	127.75	115.30
24	SD	194	LEU	CA-CB-CG	5.41	127.75	115.30
25	YM	295	ASP	CB-CG-OD2	5.41	123.17	118.30
24	YF	205	ASP	CB-CG-OD1	5.40	123.16	118.30
18	C2	1605	LEU	CA-CB-CG	5.40	127.72	115.30
24	WB	306	ASP	CB-CG-OD1	5.40	123.16	118.30
18	C1	1315	LEU	CA-CB-CG	5.40	127.72	115.30
24	SD	173	PRO	C-N-CA	5.40	135.20	121.70
19	D3	183	LEU	CB-CG-CD1	-5.39	101.83	111.00
19	D4	94	GLU	CA-CB-CG	5.39	125.26	113.40
25	QO	163	MET	CB-CG-SD	-5.39	96.23	112.40
2	1D	1258	LEU	CA-CB-CG	5.39	127.69	115.30
25	PM	114	ASP	CB-CG-OD2	5.39	123.15	118.30
18	C0	1253	LEU	CA-CB-CG	5.38	127.68	115.30
18	C0	1220	ARG	CA-CB-CG	5.38	125.23	113.40
24	YH	391	LEU	CA-CB-CG	5.37	127.66	115.30
20	E3	408	ASP	CB-CG-OD2	5.37	123.13	118.30
25	RK	295	ASP	CB-CG-OD1	5.37	123.13	118.30
24	SJ	357	TYR	C-N-CA	-5.37	108.28	121.70
39	X2	223	LEU	CA-CB-CG	5.37	127.65	115.30
19	K3	386	LEU	CA-CB-CG	5.37	127.64	115.30
25	NI	304	ASP	CB-CG-OD2	5.36	123.12	118.30
25	NO	173	PRO	CA-N-CD	-5.36	104.00	111.50
25	PI	41	ASP	CB-CG-OD2	5.36	123.12	118.30
24	WN	230	LEU	CA-CB-CG	5.35	127.60	115.30
2	1B	1923	ARG	CA-CB-CG	5.35	125.16	113.40
19	K1	404	LEU	CA-CB-CG	5.34	127.59	115.30
25	RG	41	ASP	CB-CG-OD1	5.34	123.11	118.30
18	C1	210	ASP	CB-CG-OD1	5.33	123.10	118.30
24	UP	173	PRO	C-N-CA	5.33	135.03	121.70
28	Q1	1218	ASP	CB-CG-OD1	5.33	123.10	118.30
40	Y6	303	ASP	CB-CG-OD1	5.33	123.09	118.30
18	C0	829	LEU	CA-CB-CG	5.32	127.54	115.30
24	PN	218	ASP	CB-CG-OD1	5.32	123.09	118.30
2	1A	2287	LEU	CA-CB-CG	5.31	127.52	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	WK	177	ASP	CB-CG-OD1	5.31	123.08	118.30
19	D3	317	LEU	CA-CB-CG	5.31	127.51	115.30
25	OO	249	ASP	CB-CG-OD2	5.31	123.08	118.30
24	TN	76	ASP	CB-CG-OD2	5.31	123.08	118.30
25	TE	252	LYS	CB-CG-CD	5.31	125.39	111.60
20	E3	125	LEU	CA-CB-CG	5.30	127.50	115.30
29	R1	236	LEU	CA-CB-CG	5.30	127.50	115.30
28	Q1	1173	MET	CA-CB-CG	5.30	122.31	113.30
25	OG	200	MET	CB-CG-SD	5.29	128.27	112.40
24	OP	116	ASP	CB-CG-OD1	5.29	123.06	118.30
18	C2	154	ASP	CB-CG-OD1	5.29	123.06	118.30
19	H4	395	ASP	CB-CG-OD2	5.29	123.06	118.30
18	C1	1200	LEU	CA-CB-CG	5.28	127.45	115.30
25	VO	327	ASP	CB-CG-OD1	5.28	123.05	118.30
2	1D	2287	LEU	CA-CB-CG	5.27	127.42	115.30
4	2B	218	MET	CB-CG-SD	5.27	128.21	112.40
25	XM	187	LEU	CA-CB-CG	5.27	127.42	115.30
24	PF	218	ASP	CB-CG-OD1	5.27	123.04	118.30
24	ZD	76	ASP	CB-CG-OD1	5.27	123.04	118.30
25	RE	252	LYS	CD-CE-NZ	-5.26	99.60	111.70
19	H2	184	LYS	CA-CB-CG	5.26	124.97	113.40
19	L3	147	TRP	CA-CB-CG	5.26	123.69	113.70
24	WN	194	LEU	CA-CB-CG	5.26	127.39	115.30
24	SL	251	ASP	CB-CG-OD2	5.26	123.03	118.30
24	YL	397	LEU	CA-CB-CG	5.25	127.39	115.30
25	ZE	177	ASP	CB-CG-OD1	5.25	123.03	118.30
24	YN	76	ASP	CB-CG-OD2	5.25	123.02	118.30
19	L3	425	LEU	CA-CB-CG	5.25	127.37	115.30
4	2A	686	GLY	C-N-CA	5.25	144.03	122.00
24	VJ	306	ASP	CB-CG-OD2	5.24	123.02	118.30
40	Y3	299	MET	CA-CB-CG	5.24	122.20	113.30
24	RF	269	LEU	CA-CB-CG	5.23	127.33	115.30
25	QK	284	LEU	CA-CB-CG	5.23	127.33	115.30
19	D4	386	LEU	CA-CB-CG	5.23	127.33	115.30
24	UD	76	ASP	CB-CG-OD2	5.23	123.00	118.30
24	UB	199	ASP	CB-CG-OD1	5.23	123.00	118.30
28	Q1	2991	LEU	CA-CB-CG	5.22	127.31	115.30
24	RF	218	ASP	CB-CG-OD1	5.22	123.00	118.30
19	H2	317	LEU	CA-CB-CG	5.22	127.30	115.30
40	Y5	154	LEU	CA-CB-CG	5.22	127.30	115.30
25	QO	209	ASP	CB-CG-OD2	5.21	122.99	118.30
18	C1	418	GLU	N-CA-CB	5.21	119.98	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	H0	311	LEU	CA-CB-CG	5.21	127.29	115.30
16	A0	154	ARG	CG-CD-NE	5.21	122.75	111.80
18	C0	1451	LEU	CA-CB-CG	5.21	127.28	115.30
26	O0	390	LEU	CA-CB-CG	5.21	127.28	115.30
24	UP	345	ASP	CB-CG-OD2	5.21	122.98	118.30
19	H5	260	LEU	CA-CB-CG	5.20	127.27	115.30
24	WF	98	ASP	CB-CG-OD1	5.20	122.98	118.30
41	Z1	47	ASP	CB-CG-OD1	5.20	122.98	118.30
24	WL	98	ASP	CB-CG-OD1	5.20	122.98	118.30
19	G3	344	LEU	CA-CB-CG	5.20	127.25	115.30
25	OM	404	ASP	CB-CG-OD2	5.19	122.97	118.30
2	1C	2052	ASP	CB-CG-OD1	5.19	122.97	118.30
24	TN	217	LEU	CA-CB-CG	5.19	127.24	115.30
2	1D	1335	LEU	CA-CB-CG	5.19	127.23	115.30
25	SC	192	LEU	CA-CB-CG	5.19	127.23	115.30
18	C1	1463	LEU	CA-CB-CG	5.18	127.22	115.30
18	C1	1592	LEU	CA-CB-CG	5.18	127.23	115.30
19	D5	311	LEU	CA-CB-CG	5.18	127.22	115.30
2	1B	1794	LEU	CA-CB-CG	5.18	127.22	115.30
18	C1	431	LEU	CA-CB-CG	5.18	127.22	115.30
28	Q1	2019	LEU	CA-CB-CG	5.18	127.22	115.30
24	YJ	117	LEU	CA-CB-CG	5.18	127.21	115.30
2	1A	1812	LEU	CA-CB-CG	5.18	127.21	115.30
19	D2	92	LEU	CA-CB-CG	5.17	127.20	115.30
19	D7	276	ARG	CG-CD-NE	5.17	122.66	111.80
30	S2	44	LYS	CA-CB-CG	5.17	124.78	113.40
24	RN	127	ASP	CB-CG-OD1	5.17	122.95	118.30
24	YJ	218	ASP	CB-CG-OD1	5.17	122.95	118.30
25	SM	252	LYS	CB-CG-CD	5.17	125.03	111.60
24	VP	306	ASP	CB-CG-OD1	5.17	122.95	118.30
24	NJ	116	ASP	CB-CG-OD2	5.17	122.95	118.30
28	Q1	1139	LEU	CA-CB-CG	5.17	127.18	115.30
2	1D	1812	LEU	CA-CB-CG	5.16	127.17	115.30
24	QD	195	LEU	CA-CB-CG	5.16	127.17	115.30
24	VB	218	ASP	CB-CG-OD1	5.16	122.94	118.30
25	NE	249	ASP	CB-CG-OD1	5.16	122.94	118.30
25	NK	331	LEU	CA-CB-CG	5.16	127.16	115.30
24	ZB	218	ASP	CB-CG-OD1	5.15	122.94	118.30
14	8D	70	LEU	CA-CB-CG	5.15	127.15	115.30
2	1C	2237	ASP	CB-CG-OD2	5.15	122.93	118.30
19	L2	92	LEU	CA-CB-CG	5.15	127.14	115.30
25	SE	295	ASP	CB-CG-OD1	5.14	122.93	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	1B	2287	LEU	CA-CB-CG	5.14	127.13	115.30
17	B2	479	LEU	CA-CB-CG	5.14	127.12	115.30
19	D3	396	LEU	CA-CB-CG	5.14	127.12	115.30
25	UC	224	ASP	CB-CG-OD1	5.14	122.92	118.30
25	QI	324	LYS	CD-CE-NZ	-5.13	99.91	111.70
18	C0	613	LEU	CA-CB-CG	5.12	127.08	115.30
2	1A	59	LEU	CA-CB-CG	5.12	127.08	115.30
24	NN	218	ASP	CB-CG-OD1	5.12	122.91	118.30
18	C2	1482	GLU	CA-CB-CG	5.12	124.66	113.40
24	VJ	218	ASP	CB-CG-OD1	5.12	122.91	118.30
19	K0	214	LEU	CA-CB-CG	5.12	127.06	115.30
19	D1	311	LEU	CA-CB-CG	5.11	127.06	115.30
2	1A	1321	LEU	CA-CB-CG	5.11	127.05	115.30
2	1D	2092	LEU	CA-CB-CG	5.10	127.04	115.30
24	WL	391	LEU	CA-CB-CG	5.10	127.04	115.30
18	C3	1558	LEU	CA-CB-CG	5.10	127.03	115.30
19	K1	185	ARG	CB-CG-CD	5.09	124.84	111.60
18	C0	1448	LEU	CB-CG-CD1	-5.09	102.35	111.00
19	I1	386	LEU	CA-CB-CG	5.08	126.99	115.30
24	TD	218	ASP	CB-CG-OD1	5.08	122.87	118.30
2	1C	1957	LEU	CA-CB-CG	5.07	126.95	115.30
24	NF	218	ASP	CB-CG-OD1	5.07	122.86	118.30
18	C1	423	GLU	CA-CB-CG	5.06	124.54	113.40
4	2B	687	PRO	C-N-CA	5.06	134.35	121.70
25	WA	295	ASP	CB-CG-OD2	5.06	122.85	118.30
24	ZP	218	ASP	CB-CG-OD1	5.06	122.85	118.30
19	L1	207	ASP	CB-CG-OD1	5.05	122.85	118.30
25	YG	324	LYS	CD-CE-NZ	-5.05	100.08	111.70
24	TL	230	LEU	CA-CB-CG	5.05	126.91	115.30
24	SF	302	MET	CB-CG-SD	5.05	127.54	112.40
25	NG	66	MET	CA-CB-CG	5.04	121.88	113.30
25	TK	26	ASP	CB-CG-OD2	5.04	122.84	118.30
2	1B	1967	PRO	CA-N-CD	-5.04	104.44	111.50
25	OC	293	MET	CA-CB-CG	5.04	121.87	113.30
16	A0	130	LEU	CA-CB-CG	5.04	126.89	115.30
18	C0	1552	LEU	CA-CB-CG	5.04	126.88	115.30
19	K3	300	ASP	CB-CG-OD2	5.04	122.83	118.30
2	1C	2061	LEU	CA-CB-CG	5.03	126.88	115.30
19	L2	360	LEU	CA-CB-CG	5.03	126.87	115.30
24	QN	268	MET	CB-CG-SD	5.03	127.49	112.40
2	1B	59	LEU	CA-CB-CG	5.03	126.86	115.30
19	H4	46	LEU	CA-CB-CG	5.03	126.86	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
24	RJ	218	ASP	CB-CG-OD2	5.02	122.82	118.30
24	RD	302	MET	CB-CG-SD	5.02	127.47	112.40
24	QL	68	LEU	CA-CB-CG	5.02	126.85	115.30
24	SF	218	ASP	CB-CG-OD1	5.02	122.81	118.30
25	ZI	209	ASP	CB-CG-OD2	5.02	122.82	118.30
25	SO	203	ASP	CB-CG-OD1	5.02	122.81	118.30
25	OM	67	ASP	CB-CG-OD1	5.01	122.81	118.30
24	WL	218	ASP	CB-CG-OD1	5.01	122.81	118.30
24	YB	396	ASP	CB-CG-OD1	5.01	122.81	118.30
24	ND	428	LEU	CA-CB-CG	5.01	126.83	115.30
28	Q1	2668	LEU	CA-CB-CG	5.01	126.83	115.30
39	X3	317	LYS	CA-CB-CG	5.01	124.42	113.40
18	C1	893	LEU	CA-CB-CG	5.01	126.82	115.30
19	H5	107	LEU	CA-CB-CG	5.01	126.82	115.30

There are no chirality outliers.

All (151) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	1B	2007	PRO	Peptide
2	1C	1922	TRP	Peptide
2	1D	1338	ARG	Sidechain
18	C0	1232	LEU	Peptide
18	C1	1232	LEU	Peptide
18	C1	1268	ARG	Sidechain
18	C1	427	ARG	Sidechain
18	C2	838	ARG	Sidechain
18	C3	1232	LEU	Peptide
18	C3	1574	MET	Peptide
18	C3	337	ARG	Sidechain
18	C3	838	ARG	Sidechain
19	D2	196	LYS	Peptide
19	D3	235	GLN	Peptide
21	F0	412	ASN	Peptide
21	F2	412	ASN	Peptide
21	F3	412	ASN	Peptide
19	G0	196	LYS	Peptide
19	G0	280	LYS	Peptide
19	G1	222	ASP	Peptide
19	G4	196	LYS	Peptide
19	G4	238	LYS	Peptide
19	H0	17	ARG	Sidechain

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Mol	Chain	Res	Type	Group
19	H3	185	ARG	Sidechain
19	H6	47	ARG	Sidechain
19	K2	280	LYS	Peptide
19	K2	93	SER	Peptide
19	L0	185	ARG	Sidechain
19	L0	95	GLN	Peptide
19	L3	26	GLU	Peptide
22	M1	44	GLU	Peptide
24	NB	273	ALA	Peptide
24	ND	273	ALA	Peptide
24	NF	273	ALA	Peptide
24	NH	273	ALA	Peptide
24	NJ	273	ALA	Peptide
24	NL	273	ALA	Peptide
24	NN	273	ALA	Peptide
24	OD	273	ALA	Peptide
25	OE	21	TRP	Peptide
24	OF	273	ALA	Peptide
24	OH	273	ALA	Peptide
25	OI	323	THR	Peptide
24	OJ	273	ALA	Peptide
24	OL	273	ALA	Peptide
24	ON	273	ALA	Peptide
24	OP	273	ALA	Peptide
24	PD	273	ALA	Peptide
25	PE	267	MET	Peptide
24	PF	273	ALA	Peptide
24	PH	273	ALA	Peptide
24	PJ	273	ALA	Peptide
24	PL	273	ALA	Peptide
24	PL	390	ARG	Sidechain
24	PN	273	ALA	Peptide
24	PP	273	ALA	Peptide
24	PP	390	ARG	Sidechain
28	Q0	900	GLN	Peptide
28	Q1	260	ASP	Peptide
28	Q1	900	GLN	Peptide
24	QD	273	ALA	Peptide
24	QF	273	ALA	Peptide
24	QH	273	ALA	Peptide
24	QJ	273	ALA	Peptide
25	QK	213	ARG	Sidechain

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Mol	Chain	Res	Type	Group
25	QK	325	GLU	Peptide
24	QL	273	ALA	Peptide
24	QN	273	ALA	Peptide
24	QP	273	ALA	Peptide
25	QQ	267	MET	Peptide
24	RD	273	ALA	Peptide
24	RF	273	ALA	Peptide
25	RG	267	MET	Peptide
24	RH	273	ALA	Peptide
24	RJ	273	ALA	Peptide
25	RK	157	GLU	Peptide
24	RL	273	ALA	Peptide
24	RN	273	ALA	Peptide
24	RP	273	ALA	Peptide
24	SB	273	ALA	Peptide
25	SC	322	SER	Peptide
24	SD	273	ALA	Peptide
24	SF	273	ALA	Peptide
24	SH	273	ALA	Peptide
24	SJ	273	ALA	Peptide
24	SL	273	ALA	Peptide
24	SN	273	ALA	Peptide
24	SP	273	ALA	Peptide
24	TB	273	ALA	Peptide
25	TC	322	SER	Peptide
25	TC	323	THR	Peptide
24	TD	273	ALA	Peptide
24	TF	273	ALA	Peptide
25	TG	162	ARG	Sidechain
24	TH	273	ALA	Peptide
24	TJ	273	ALA	Peptide
24	TL	273	ALA	Peptide
24	TN	273	ALA	Peptide
24	TP	273	ALA	Peptide
24	UB	273	ALA	Peptide
24	UD	273	ALA	Peptide
24	UF	273	ALA	Peptide
24	UH	273	ALA	Peptide
24	UJ	273	ALA	Peptide
24	UL	273	ALA	Peptide
24	UN	273	ALA	Peptide
24	UP	273	ALA	Peptide

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Mol	Chain	Res	Type	Group
24	VB	273	ALA	Peptide
24	VD	273	ALA	Peptide
24	VF	273	ALA	Peptide
24	VH	273	ALA	Peptide
24	VJ	273	ALA	Peptide
24	VL	273	ALA	Peptide
24	VN	273	ALA	Peptide
24	VP	273	ALA	Peptide
24	WB	273	ALA	Peptide
24	WD	273	ALA	Peptide
24	WF	273	ALA	Peptide
24	WH	273	ALA	Peptide
24	WJ	273	ALA	Peptide
24	WL	273	ALA	Peptide
24	WN	273	ALA	Peptide
24	XB	273	ALA	Peptide
24	XD	273	ALA	Peptide
24	XF	273	ALA	Peptide
24	XH	273	ALA	Peptide
24	XJ	273	ALA	Peptide
24	XL	273	ALA	Peptide
24	XN	273	ALA	Peptide
40	Y5	456	ARG	Sidechain
40	Y7	75	PHE	Peptide
24	YB	273	ALA	Peptide
24	YD	273	ALA	Peptide
25	YE	267	MET	Peptide
24	YF	273	ALA	Peptide
25	YG	391	ARG	Sidechain
24	YH	273	ALA	Peptide
24	YJ	273	ALA	Peptide
24	YL	273	ALA	Peptide
24	YN	273	ALA	Peptide
24	YP	273	ALA	Peptide
24	ZB	273	ALA	Peptide
24	ZD	273	ALA	Peptide
24	ZF	273	ALA	Peptide
25	ZG	58	ARG	Sidechain
24	ZH	273	ALA	Peptide
24	ZH	377	MET	Peptide
24	ZJ	273	ALA	Peptide
24	ZL	273	ALA	Peptide

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Mol	Chain	Res	Type	Group
24	ZN	273	ALA	Peptide
24	ZP	273	ALA	Peptide

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	0A	287	0	133	1	0
1	0B	312	0	143	1	0
1	0C	287	0	133	0	0
1	0D	312	0	143	0	0
1	0E	287	0	133	0	0
1	0F	312	0	143	0	0
1	0G	287	0	133	1	0
1	0H	312	0	143	1	0
1	0I	308	0	139	0	0
1	0J	278	0	124	0	0
1	0K	312	0	142	0	0
1	0L	268	0	117	0	0
2	1A	10474	0	8617	153	0
2	1B	10580	0	8660	155	0
2	1C	10775	0	8771	148	0
2	1D	10707	0	8728	163	0
3	1F	1110	0	591	0	0
3	1G	800	0	399	0	0
3	1H	898	0	478	0	0
3	1I	489	0	247	0	0
3	1J	1673	0	873	0	0
3	1K	1704	0	881	0	0
3	1L	1673	0	873	0	0
3	1M	1704	0	881	0	0
3	1N	1673	0	873	0	0
3	1O	1704	0	881	0	0
3	1P	1673	0	873	0	0
3	1Q	1704	0	881	0	0
3	1R	1673	0	873	0	0
3	1S	1704	0	881	0	0
3	1T	1673	0	873	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	1U	1704	0	881	0	0
3	1V	1078	0	557	0	0
3	1W	1320	0	683	0	0
3	1X	1133	0	579	0	0
3	1Y	1305	0	677	0	0
4	2A	4347	0	2974	44	0
4	2B	4428	0	3057	36	0
5	2E	1144	0	506	1	0
5	2F	1154	0	510	1	0
6	2H	2015	0	950	8	0
6	2I	2015	0	950	7	0
7	2K	1232	0	644	1	0
7	2L	1277	0	674	3	0
7	2M	1272	0	672	2	0
7	2N	1302	0	687	1	0
7	2O	1247	0	656	1	0
7	2P	917	0	465	1	0
7	2Q	200	0	105	0	0
8	3A	869	0	420	1	0
8	3B	869	0	420	1	0
8	3C	869	0	420	3	0
8	3D	830	0	405	1	0
9	3K	1274	0	594	1	0
9	3L	1199	0	558	4	0
9	3M	1264	0	593	4	0
9	3N	1214	0	567	1	0
9	3O	1284	0	604	2	0
9	3P	1264	0	593	1	0
10	4A	704	0	324	0	0
10	4B	704	0	324	1	0
10	4C	704	0	324	0	0
10	4D	704	0	324	0	0
10	4E	704	0	324	1	0
10	4F	704	0	324	0	0
10	4G	704	0	324	0	0
10	4H	704	0	324	1	0
10	4I	704	0	324	0	0
10	4J	704	0	324	0	0
10	4K	704	0	324	0	0
10	4L	704	0	324	0	0
11	5A	2713	0	1343	3	0
11	5B	2713	0	1343	3	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
11	5C	2713	0	1343	2	0
11	5D	2713	0	1343	2	0
12	6A	1435	0	630	2	0
12	6B	1435	0	630	2	0
12	6C	1250	0	546	1	0
12	6D	1250	0	547	1	0
13	7A	574	0	272	4	0
13	7B	637	0	297	1	0
13	7C	567	0	275	7	0
13	7D	491	0	238	2	0
13	7E	544	0	264	4	0
13	7F	496	0	240	6	0
13	7G	574	0	272	3	0
13	7H	637	0	297	2	0
13	7I	579	0	274	6	0
13	7J	637	0	297	2	0
13	7K	574	0	272	4	0
13	7L	564	0	268	0	0
14	8A	1945	0	1845	31	0
14	8B	1010	0	951	18	0
14	8C	2082	0	1979	43	0
14	8D	1010	0	951	21	0
15	9A	4075	0	2031	9	0
15	9B	4075	0	2031	9	0
15	9C	4075	0	2031	9	0
15	9D	4075	0	2031	9	0
15	9E	3354	0	1636	11	0
15	9F	3344	0	1632	6	0
16	A0	1004	0	996	17	0
16	A1	1295	0	1307	30	0
16	A2	1295	0	1307	20	0
16	A3	1295	0	1307	25	0
16	A4	284	0	303	2	0
17	B0	1932	0	1972	28	0
17	B1	3751	0	3840	61	0
17	B2	1933	0	1958	41	0
18	C0	9027	0	8982	170	0
18	C1	10128	0	10095	206	0
18	C2	11519	0	11477	181	0
18	C3	11424	0	11371	177	0
18	C4	2245	0	2237	48	0
19	D0	3315	0	3195	57	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
19	D1	3312	0	3196	72	0
19	D2	3330	0	3201	51	0
19	D3	3327	0	3202	66	0
19	D4	3315	0	3195	51	0
19	D5	3327	0	3202	62	0
19	D6	3330	0	3201	46	0
19	D7	3327	0	3202	64	0
19	G0	3309	0	3190	60	0
19	G1	3317	0	3198	77	0
19	G2	3324	0	3196	58	0
19	G3	3317	0	3198	72	0
19	G4	3324	0	3196	68	0
19	G5	3317	0	3198	59	0
19	H0	3301	0	3186	60	0
19	H1	3204	0	3135	59	0
19	H2	3232	0	3104	39	0
19	H3	3281	0	3153	57	0
19	H4	3316	0	3192	44	0
19	H5	3288	0	3162	66	0
19	H6	3214	0	3090	54	0
19	H7	3244	0	3126	67	0
19	I0	3274	0	3155	66	0
19	I1	3316	0	3192	63	0
19	J0	3253	0	3166	69	0
19	J1	3317	0	3195	78	0
19	J2	3306	0	3185	63	0
19	J3	3292	0	3186	88	0
19	K0	3322	0	3197	64	0
19	K1	3322	0	3197	55	0
19	K2	3322	0	3197	67	0
19	K3	3292	0	3178	57	0
19	L0	3531	0	3588	77	0
19	L1	3511	0	3568	73	0
19	L2	3511	0	3568	67	0
19	L3	3531	0	3588	87	0
20	E0	1864	0	1855	30	0
20	E1	1903	0	1895	36	0
20	E2	1842	0	1829	35	0
20	E3	1910	0	1902	38	0
21	F0	1524	0	721	8	0
21	F1	2924	0	2093	47	0
21	F2	2924	0	2093	33	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
21	F3	2924	0	2093	40	0
22	M0	1761	0	1708	50	0
22	M1	4307	0	4251	84	0
23	N0	2737	0	1885	16	0
23	N1	2815	0	1970	22	0
23	N2	2737	0	1885	20	0
23	N3	2829	0	1985	24	0
24	NB	3341	0	3282	51	0
24	ND	3341	0	3282	54	0
24	NF	3341	0	3282	53	0
24	NH	3341	0	3282	62	0
24	NJ	3341	0	3282	49	0
24	NL	3341	0	3282	60	0
24	NN	3341	0	3282	48	0
24	OD	3341	0	3282	59	0
24	OF	3341	0	3282	52	0
24	OH	3341	0	3282	80	0
24	OJ	3341	0	3282	57	0
24	OL	3341	0	3282	55	0
24	ON	3341	0	3282	62	0
24	OP	3341	0	3282	62	0
24	PD	3335	0	3277	57	0
24	PF	3341	0	3282	51	0
24	PH	3341	0	3282	60	0
24	PJ	3341	0	3282	47	0
24	PL	3335	0	3277	61	0
24	PN	3341	0	3282	66	0
24	PP	3341	0	3282	65	0
24	QD	3341	0	3282	59	0
24	QF	3341	0	3282	54	0
24	QH	3399	0	3336	67	0
24	QJ	3341	0	3282	63	0
24	QL	3341	0	3282	54	0
24	QN	3335	0	3277	42	0
24	QP	3399	0	3336	45	0
24	RD	3341	0	3282	68	0
24	RF	3341	0	3281	59	0
24	RH	3341	0	3282	71	0
24	RJ	3341	0	3282	55	0
24	RL	3341	0	3282	69	0
24	RN	3341	0	3282	52	0
24	RP	3341	0	3282	61	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
24	SB	3341	0	3282	46	0
24	SD	3341	0	3282	57	0
24	SF	3341	0	3282	66	0
24	SH	3363	0	3295	54	0
24	SJ	3341	0	3282	47	0
24	SL	3341	0	3282	52	0
24	SN	3341	0	3282	69	0
24	SP	3363	0	3295	63	0
24	TB	3341	0	3282	46	0
24	TD	3341	0	3282	52	0
24	TF	3341	0	3282	58	0
24	TH	3363	0	3295	65	0
24	TJ	3341	0	3282	56	0
24	TL	3341	0	3282	63	0
24	TN	3341	0	3282	47	0
24	TP	3363	0	3295	47	0
24	UB	3393	0	3331	36	0
24	UD	3355	0	3291	67	0
24	UF	3399	0	3336	57	0
24	UH	3359	0	3294	60	0
24	UJ	3399	0	3336	44	0
24	UL	3353	0	3289	65	0
24	UN	3399	0	3336	68	0
24	UP	3349	0	3286	59	0
24	VB	3341	0	3282	64	0
24	VD	3341	0	3282	52	0
24	VF	3341	0	3282	56	0
24	VH	3363	0	3295	66	0
24	VJ	3341	0	3282	53	0
24	VL	3341	0	3282	54	0
24	VN	3341	0	3282	63	0
24	VP	3341	0	3282	56	0
24	WB	3399	0	3336	61	0
24	WD	3343	0	3281	69	0
24	WF	3399	0	3336	51	0
24	WH	3367	0	3298	64	0
24	WJ	3393	0	3331	56	0
24	WL	3349	0	3286	69	0
24	WN	3399	0	3336	67	0
24	XB	3341	0	3282	62	0
24	XD	3341	0	3282	67	0
24	XF	3341	0	3282	59	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
24	XH	3341	0	3282	47	0
24	XJ	3341	0	3282	51	0
24	XL	3341	0	3282	56	0
24	XN	3341	0	3282	65	0
24	YB	3341	0	3282	41	0
24	YD	3335	0	3277	92	0
24	YF	3341	0	3282	50	0
24	YH	3341	0	3282	53	0
24	YJ	3341	0	3282	50	0
24	YL	3341	0	3282	67	0
24	YN	3341	0	3282	52	0
24	YP	3341	0	3282	42	0
24	ZB	3333	0	3278	55	0
24	ZD	3333	0	3278	56	0
24	ZF	3341	0	3282	55	0
24	ZH	3341	0	3282	45	0
24	ZJ	3341	0	3282	55	0
24	ZL	3341	0	3282	59	0
24	ZN	3341	0	3282	62	0
24	ZP	3341	0	3282	41	0
25	NC	3354	0	3244	52	0
25	NE	3354	0	3244	48	0
25	NG	3354	0	3244	65	0
25	NI	3354	0	3244	49	0
25	NK	3354	0	3244	63	0
25	NM	3354	0	3244	48	0
25	NO	3354	0	3244	68	0
25	OC	3354	0	3244	50	0
25	OE	3354	0	3244	65	0
25	OG	3354	0	3244	49	0
25	OI	3365	0	3254	83	0
25	OK	3354	0	3244	54	0
25	OM	3354	0	3244	62	0
25	OO	3354	0	3244	60	0
25	OQ	3365	0	3254	60	0
25	PC	3354	0	3244	55	0
25	PE	3365	0	3254	51	0
25	PG	3354	0	3244	55	0
25	PI	3354	0	3244	66	0
25	PK	3354	0	3244	56	0
25	PM	3354	0	3244	79	0
25	PO	3354	0	3244	72	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
25	PQ	3354	0	3244	59	0
25	QC	3354	0	3244	49	0
25	QE	3365	0	3254	51	0
25	QG	3359	0	3249	63	0
25	QI	3354	0	3244	86	0
25	QK	3354	0	3244	69	0
25	QM	3365	0	3254	66	0
25	QO	3354	0	3244	71	0
25	QQ	3354	0	3244	51	0
25	RC	3354	0	3244	52	0
25	RE	3354	0	3244	70	0
25	RG	3354	0	3244	61	0
25	RI	3354	0	3244	62	0
25	RK	3354	0	3244	74	0
25	RM	3354	0	3244	68	0
25	RO	3354	0	3244	71	0
25	SC	3354	0	3244	81	0
25	SE	3354	0	3244	57	0
25	SG	3354	0	3244	66	0
25	SI	3354	0	3244	59	0
25	SK	3354	0	3244	52	0
25	SM	3354	0	3244	55	0
25	SO	3354	0	3244	57	0
25	TC	3354	0	3244	60	0
25	TE	3354	0	3244	47	0
25	TG	3354	0	3243	59	0
25	TI	3354	0	3244	68	0
25	TK	3354	0	3244	60	0
25	TM	3354	0	3244	65	0
25	TO	3354	0	3244	59	0
25	UC	3388	0	3271	55	0
25	UE	3354	0	3244	66	0
25	UG	3354	0	3244	60	0
25	UI	3379	0	3265	52	0
25	UK	3388	0	3271	70	0
25	UM	3354	0	3244	60	0
25	UO	3354	0	3244	66	0
25	VC	3354	0	3244	53	0
25	VE	3354	0	3244	68	0
25	VG	3354	0	3244	54	0
25	VI	3379	0	3265	61	0
25	VK	3354	0	3244	64	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
25	VM	3359	0	3249	53	0
25	VO	3354	0	3244	62	0
25	WA	3370	0	3259	50	0
25	WC	3354	0	3244	56	0
25	WE	3370	0	3259	74	0
25	WG	3354	0	3244	67	0
25	WI	3370	0	3259	57	0
25	WK	3354	0	3244	55	0
25	WM	3370	0	3259	53	0
25	WO	3354	0	3244	55	0
25	XA	3354	0	3244	45	0
25	XC	3354	0	3244	70	0
25	XE	3354	0	3244	61	0
25	XG	3354	0	3244	58	0
25	XI	3359	0	3249	51	0
25	XK	3354	0	3244	78	0
25	XM	3359	0	3249	58	0
25	XO	3354	0	3244	56	0
25	YC	3359	0	3249	58	0
25	YE	3354	0	3244	46	0
25	YG	3354	0	3244	59	0
25	YI	3370	0	3259	74	0
25	YK	3359	0	3249	48	0
25	YM	3359	0	3249	59	0
25	YO	3359	0	3249	85	0
25	ZC	3354	0	3244	54	0
25	ZE	3354	0	3244	59	0
25	ZG	3354	0	3244	53	0
25	ZI	3354	0	3244	59	0
25	ZK	3354	0	3244	58	0
25	ZM	3354	0	3244	51	0
25	ZO	3354	0	3244	60	0
26	O0	6206	0	3787	33	0
26	O1	4290	0	3431	38	0
26	O2	1002	0	1006	15	0
27	P0	1751	0	861	2	0
27	P1	3561	0	1770	2	0
27	P2	3610	0	1804	1	0
27	P3	3610	0	1804	1	0
28	Q0	17935	0	18222	243	0
28	Q1	17945	0	18232	235	0
29	R0	10914	0	6788	43	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
29	R1	10963	0	6819	33	0
30	S0	1191	0	1152	20	0
30	S1	1191	0	1152	11	0
30	S2	1191	0	1152	23	0
30	S3	1166	0	1132	15	0
31	S5	190	0	44	1	0
32	T0	3339	0	2533	37	0
32	T1	3434	0	2593	27	0
32	T2	3355	0	2548	32	0
32	T3	1541	0	721	4	0
33	U0	1643	0	1691	28	0
33	U1	1643	0	1691	21	0
34	V0	956	0	452	5	0
34	V1	921	0	436	5	0
35	W0	5224	0	2718	4	0
35	W1	4758	0	2463	4	0
36	W3	340	0	77	7	0
36	W4	340	0	75	1	0
36	W5	340	0	76	5	0
36	W6	340	0	75	3	0
37	W7	745	0	163	4	0
37	W9	745	0	169	7	0
38	W8	255	0	55	0	0
39	X0	5308	0	4465	65	0
39	X1	5308	0	4465	56	0
39	X2	5308	0	4465	58	0
39	X3	5308	0	4465	60	0
40	Y0	3607	0	3611	66	0
40	Y1	3607	0	3611	75	0
40	Y2	3607	0	3611	66	0
40	Y3	3607	0	3611	73	0
40	Y4	3607	0	3611	87	0
40	Y5	3607	0	3611	75	0
40	Y6	3607	0	3611	73	0
40	Y7	3607	0	3611	66	0
41	Z0	4599	0	4615	55	0
41	Z1	4599	0	4615	62	0
41	Z2	4599	0	4615	65	0
41	Z3	4599	0	4615	57	0
42	1A	27	0	12	2	0
42	1B	27	0	12	2	0
42	1C	27	0	12	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
42	1D	27	0	12	1	0
43	1A	31	0	11	3	0
43	1B	31	0	11	4	0
43	1C	31	0	11	3	0
43	1D	31	0	11	5	0
43	C0	31	0	11	4	0
43	C1	31	0	11	2	0
43	C2	31	0	11	4	0
43	C3	31	0	10	3	0
44	NB	32	0	12	2	0
44	ND	32	0	12	0	0
44	NF	32	0	12	0	0
44	NH	32	0	12	0	0
44	NJ	32	0	12	0	0
44	NL	32	0	12	0	0
44	NN	32	0	12	4	0
44	OD	32	0	12	0	0
44	OF	32	0	12	1	0
44	OH	32	0	12	1	0
44	OJ	32	0	12	0	0
44	OL	32	0	12	3	0
44	ON	32	0	12	1	0
44	OP	32	0	12	2	0
44	PD	32	0	12	0	0
44	PF	32	0	12	2	0
44	PH	32	0	12	1	0
44	PJ	32	0	12	3	0
44	PL	32	0	12	0	0
44	PN	32	0	12	4	0
44	PP	32	0	12	0	0
44	QD	32	0	12	1	0
44	QF	32	0	12	0	0
44	QH	32	0	12	1	0
44	QJ	32	0	12	0	0
44	QL	32	0	12	1	0
44	QN	32	0	12	0	0
44	QP	32	0	12	1	0
44	RD	32	0	12	0	0
44	RF	32	0	12	1	0
44	RH	32	0	12	1	0
44	RJ	32	0	12	1	0
44	RL	32	0	12	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
44	RN	32	0	12	1	0
44	RP	32	0	12	0	0
44	SB	32	0	12	0	0
44	SD	32	0	12	1	0
44	SF	32	0	12	1	0
44	SH	32	0	12	0	0
44	SJ	32	0	12	0	0
44	SL	32	0	12	0	0
44	SN	32	0	12	0	0
44	SP	32	0	12	0	0
44	TB	32	0	12	1	0
44	TD	32	0	12	0	0
44	TF	32	0	12	0	0
44	TH	32	0	12	1	0
44	TJ	32	0	12	1	0
44	TL	32	0	12	1	0
44	TN	32	0	12	0	0
44	TP	32	0	12	0	0
44	UB	32	0	12	2	0
44	UD	32	0	12	2	0
44	UF	32	0	12	1	0
44	UH	32	0	12	2	0
44	UJ	32	0	12	0	0
44	UL	32	0	12	0	0
44	UN	32	0	12	0	0
44	UP	32	0	12	2	0
44	VB	32	0	12	1	0
44	VD	32	0	12	1	0
44	VF	32	0	12	1	0
44	VH	32	0	12	0	0
44	VJ	32	0	12	0	0
44	VL	32	0	12	1	0
44	VN	32	0	12	2	0
44	VP	32	0	12	1	0
44	WB	32	0	12	1	0
44	WD	32	0	12	2	0
44	WF	32	0	12	0	0
44	WH	32	0	12	1	0
44	WJ	32	0	12	2	0
44	WL	32	0	12	1	0
44	WN	32	0	12	2	0
44	XB	32	0	12	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
44	XD	32	0	12	1	0
44	XF	32	0	12	0	0
44	XH	32	0	12	2	0
44	XJ	32	0	12	0	0
44	XL	32	0	12	0	0
44	XN	32	0	12	2	0
44	YB	32	0	12	0	0
44	YD	32	0	12	0	0
44	YF	32	0	12	0	0
44	YH	32	0	12	1	0
44	YJ	32	0	12	0	0
44	YL	32	0	12	1	0
44	YN	32	0	12	0	0
44	YP	32	0	12	0	0
44	ZB	32	0	12	1	0
44	ZD	32	0	12	1	0
44	ZF	32	0	12	1	0
44	ZH	32	0	12	0	0
44	ZJ	32	0	12	0	0
44	ZL	32	0	12	0	0
44	ZN	32	0	12	0	0
44	ZP	32	0	12	0	0
45	NB	1	0	0	0	0
45	ND	1	0	0	0	0
45	NG	1	0	0	0	0
45	NH	1	0	0	0	0
45	NJ	1	0	0	0	0
45	NL	1	0	0	0	0
45	NN	1	0	0	0	0
45	OD	1	0	0	0	0
45	OF	1	0	0	0	0
45	OH	1	0	0	0	0
45	OJ	1	0	0	0	0
45	OL	1	0	0	0	0
45	ON	1	0	0	0	0
45	OP	1	0	0	0	0
45	PD	1	0	0	0	0
45	PF	1	0	0	0	0
45	PI	1	0	0	0	0
45	PJ	1	0	0	0	0
45	PL	1	0	0	0	0
45	PN	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
45	PP	1	0	0	0	0
45	QD	1	0	0	0	0
45	QF	1	0	0	0	0
45	QH	1	0	0	0	0
45	QJ	1	0	0	0	0
45	QL	1	0	0	0	0
45	QN	1	0	0	0	0
45	QP	1	0	0	0	0
45	RD	1	0	0	0	0
45	RF	1	0	0	0	0
45	RI	1	0	0	0	0
45	RJ	1	0	0	0	0
45	RL	1	0	0	0	0
45	RN	1	0	0	0	0
45	RP	1	0	0	0	0
45	SC	1	0	0	0	0
45	SD	1	0	0	0	0
45	SG	1	0	0	0	0
45	SH	1	0	0	0	0
45	SJ	1	0	0	0	0
45	SL	1	0	0	0	0
45	SO	1	0	0	0	0
45	SP	1	0	0	0	0
45	TB	1	0	0	0	0
45	TD	1	0	0	0	0
45	TG	1	0	0	0	0
45	TH	1	0	0	0	0
45	TJ	1	0	0	0	0
45	TM	1	0	0	0	0
45	TN	1	0	0	0	0
45	TP	1	0	0	0	0
45	UB	1	0	0	0	0
45	UD	1	0	0	0	0
45	UF	1	0	0	0	0
45	UH	1	0	0	0	0
45	UJ	1	0	0	0	0
45	UL	1	0	0	0	0
45	UN	1	0	0	0	0
45	UP	1	0	0	0	0
45	VB	1	0	0	0	0
45	VD	1	0	0	0	0
45	VF	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
45	VH	1	0	0	0	0
45	VJ	1	0	0	0	0
45	VL	1	0	0	0	0
45	VN	1	0	0	0	0
45	VP	1	0	0	0	0
45	WB	1	0	0	0	0
45	WD	1	0	0	0	0
45	WG	1	0	0	0	0
45	WH	1	0	0	0	0
45	WJ	1	0	0	0	0
45	WL	1	0	0	0	0
45	WN	1	0	0	0	0
45	XB	1	0	0	0	0
45	XD	1	0	0	0	0
45	XF	1	0	0	0	0
45	XH	1	0	0	0	0
45	XJ	1	0	0	0	0
45	XM	1	0	0	0	0
45	XN	1	0	0	0	0
45	YB	1	0	0	0	0
45	YD	1	0	0	0	0
45	YF	1	0	0	0	0
45	YH	1	0	0	0	0
45	YJ	1	0	0	0	0
45	YL	1	0	0	0	0
45	YN	1	0	0	0	0
45	YP	1	0	0	0	0
45	ZB	1	0	0	0	0
45	ZD	1	0	0	0	0
45	ZF	1	0	0	0	0
45	ZH	1	0	0	0	0
45	ZJ	1	0	0	0	0
45	ZL	1	0	0	0	0
45	ZN	1	0	0	0	0
45	ZP	1	0	0	0	0
46	NC	28	0	12	0	0
46	NE	28	0	12	1	0
46	NG	28	0	12	0	0
46	NI	28	0	12	1	0
46	NK	28	0	12	0	0
46	NM	28	0	12	1	0
46	NO	28	0	12	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
46	OC	28	0	12	1	0
46	OE	28	0	12	4	0
46	OG	28	0	12	0	0
46	OI	28	0	12	0	0
46	OK	28	0	12	1	0
46	OM	28	0	12	1	0
46	OO	28	0	12	1	0
46	OQ	28	0	12	0	0
46	PC	28	0	12	2	0
46	PE	28	0	12	0	0
46	PG	28	0	12	1	0
46	PI	28	0	12	1	0
46	PK	28	0	12	3	0
46	PM	28	0	12	0	0
46	PO	28	0	12	0	0
46	PQ	28	0	12	0	0
46	QC	28	0	12	0	0
46	QE	28	0	12	1	0
46	QG	28	0	12	2	0
46	QI	28	0	12	0	0
46	QK	28	0	12	0	0
46	QM	28	0	12	0	0
46	QO	28	0	12	1	0
46	QQ	28	0	12	1	0
46	RC	28	0	12	0	0
46	RE	28	0	12	0	0
46	RG	28	0	12	0	0
46	RI	28	0	12	0	0
46	RK	28	0	12	0	0
46	RM	28	0	12	0	0
46	RO	28	0	12	0	0
46	SC	28	0	12	0	0
46	SE	28	0	12	1	0
46	SG	28	0	12	0	0
46	SI	28	0	12	0	0
46	SK	28	0	12	0	0
46	SM	28	0	12	0	0
46	SO	28	0	12	1	0
46	TC	28	0	12	2	0
46	TE	28	0	12	2	0
46	TG	28	0	12	1	0
46	TI	28	0	12	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
46	TK	28	0	12	1	0
46	TM	28	0	12	3	0
46	TO	28	0	12	2	0
46	UC	28	0	12	0	0
46	UE	28	0	12	1	0
46	UG	28	0	12	1	0
46	UI	28	0	12	1	0
46	UK	28	0	12	0	0
46	UM	28	0	12	2	0
46	UO	28	0	12	0	0
46	VC	28	0	12	0	0
46	VE	28	0	12	1	0
46	VG	28	0	12	0	0
46	VI	28	0	12	0	0
46	VK	28	0	12	0	0
46	VM	28	0	12	2	0
46	VO	28	0	12	0	0
46	WA	28	0	12	0	0
46	WC	28	0	12	1	0
46	WE	28	0	12	2	0
46	WG	28	0	12	1	0
46	WI	28	0	12	0	0
46	WK	28	0	12	0	0
46	WM	28	0	12	0	0
46	WO	28	0	12	0	0
46	XA	28	0	12	0	0
46	XC	28	0	12	2	0
46	XE	28	0	12	1	0
46	XG	28	0	12	0	0
46	XI	28	0	12	1	0
46	XK	28	0	12	1	0
46	XM	28	0	12	1	0
46	XO	28	0	12	2	0
46	YC	28	0	12	2	0
46	YE	28	0	12	1	0
46	YG	28	0	12	1	0
46	YI	28	0	12	0	0
46	YK	28	0	12	0	0
46	YM	28	0	12	0	0
46	YO	28	0	12	2	0
46	ZC	28	0	12	0	0
46	ZE	28	0	12	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
46	ZG	28	0	12	1	0
46	ZI	28	0	12	2	0
46	ZK	28	0	12	0	0
46	ZM	28	0	12	1	0
46	ZO	28	0	12	0	0
All	All	1218816	0	1088559	16259	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 7.

All (16259) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6C:55:PRO:HA	12:6C:282:VAL:O	1.68	0.93
25:QM:166:THR:O	25:QM:200:MET:HB2	1.71	0.89
4:2A:822:GLN:HA	4:2A:843:MET:O	1.75	0.86
25:ZK:19:LYS:HZ1	25:ZK:227:HIS:HA	1.41	0.85
19:I1:168:ALA:O	19:I1:172:LEU:HB2	1.78	0.84
18:C1:1666:GLU:O	18:C1:1670:ALA:HB2	1.79	0.83
17:B0:758:GLU:OE1	17:B0:762:ARG:NH1	2.13	0.82
19:D4:78:ALA:O	19:D4:82:ASN:HB2	1.79	0.82
2:1D:2046:LEU:HB2	2:1D:2075:ASN:HA	1.62	0.81
19:D0:224:LYS:HG2	19:D0:227:ARG:HH21	1.46	0.80
18:C2:838:ARG:HD3	43:C2:2001:ANP:H1'	1.62	0.80
24:UN:152:LEU:HA	24:UN:155:GLU:HG2	1.63	0.80
2:1B:1811:ARG:NH2	42:1B:2601:ADP:N7	2.28	0.79
24:NH:387:ILE:HD12	24:NH:390:ARG:HH12	1.48	0.79
24:YN:318:MET:HB2	24:YN:376:CYS:HB3	1.64	0.79
26:O2:129:GLU:OE1	26:O2:189:LYS:NZ	2.15	0.79
12:6D:55:PRO:HA	12:6D:282:VAL:O	1.83	0.79
26:O2:133:ALA:HB3	26:O2:189:LYS:HE2	1.65	0.79
24:ZP:255:PHE:O	24:ZP:259:LEU:HB2	1.83	0.79
25:OC:11:GLN:HE22	24:OD:249:ASN:H	1.28	0.78
24:PL:102:ASN:HD21	25:PM:255:VAL:HG21	1.48	0.78
24:TN:88:HIS:HB3	24:TN:91:GLN:HE22	1.48	0.78
25:PC:19:LYS:NZ	25:PC:223:GLY:O	2.16	0.78
18:C1:396:SER:HA	18:C1:399:LYS:HE2	1.64	0.78
19:K1:194:ILE:HG22	19:K1:201:LEU:HD21	1.65	0.78
16:A1:94:LEU:HG	24:YL:298:PRO:HD3	1.65	0.78
19:H2:301:TYR:O	19:H2:305:SER:HB3	1.84	0.78
25:YK:170:VAL:HG21	25:YK:201:VAL:HG13	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:YI:332:ASN:O	25:YI:336:LYS:HB3	1.83	0.78
25:QE:8:GLN:HE22	25:QE:17:GLY:HA3	1.46	0.78
24:TB:221:ARG:HH12	25:TC:324:LYS:H	1.31	0.78
18:C3:1644:MET:HG3	18:C3:1791:VAL:HG11	1.66	0.77
19:L0:348:PRO:HD2	19:L0:352:LEU:HD11	1.65	0.77
19:G4:276:ARG:HH22	19:G4:312:PRO:HA	1.50	0.77
19:G4:322:ALA:HA	19:G4:362:GLN:HG3	1.65	0.77
17:B2:386:MET:SD	24:SF:339:ARG:NH2	2.57	0.77
19:I0:15:LYS:NZ	25:OI:399:THR:O	2.17	0.76
24:PF:175:PRO:HB3	24:PF:390:ARG:HE	1.50	0.76
18:C3:496:ARG:HH22	18:C3:554:LEU:HB2	1.50	0.76
19:D3:136:GLU:O	19:D3:142:LYS:NZ	2.18	0.76
19:H1:59:GLN:HG3	19:H1:98:PHE:HB3	1.65	0.76
22:M1:44:GLU:HB2	22:M1:64:ARG:HB2	1.64	0.76
2:1D:1811:ARG:NH2	42:1D:2601:ADP:N7	2.30	0.76
4:2B:822:GLN:HA	4:2B:843:MET:O	1.86	0.76
19:L2:405:LYS:HG3	19:L2:448:ARG:HH12	1.50	0.76
24:SB:223:THR:HB	25:SC:322:SER:HB2	1.67	0.76
19:H0:142:LYS:NZ	19:H0:175:CYS:SG	2.54	0.76
25:VG:60:VAL:HG21	25:VG:86:ARG:HG3	1.67	0.76
16:A3:84:LYS:NZ	24:YD:214:ARG:O	2.19	0.75
2:1C:1811:ARG:NH2	42:1C:2601:ADP:N7	2.29	0.75
40:Y1:209:GLU:HB2	40:Y1:287:ASP:HB3	1.67	0.75
18:C2:205:ARG:NH1	18:C2:209:MET:SD	2.57	0.75
18:C0:1671:GLU:HB3	18:C0:1748:LYS:HE3	1.67	0.75
19:K3:301:TYR:O	19:K3:305:SER:HB2	1.87	0.75
24:TP:203:MET:HG3	24:TP:303:VAL:HG21	1.67	0.75
24:ZL:239:THR:HG23	24:ZL:243:ARG:HH12	1.50	0.75
28:Q0:2049:ALA:O	28:Q0:2053:TRP:HB3	1.87	0.75
2:1A:1811:ARG:NH2	42:1A:2601:ADP:N7	2.29	0.75
24:WH:298:PRO:HG3	24:WH:308:ARG:HH12	1.52	0.74
25:XA:200:MET:HG2	25:XA:266:PHE:HB2	1.68	0.74
25:TG:325:GLU:HA	25:TG:328:GLU:HG3	1.69	0.74
25:SC:256:ASN:HD22	25:SC:350:LYS:HE3	1.53	0.74
25:VE:207:LEU:HB3	25:VE:225:LEU:HD22	1.69	0.74
14:8C:227:TYR:HA	25:RG:213:ARG:HH22	1.52	0.74
25:TG:221:THR:HG23	25:TG:223:GLY:H	1.51	0.74
24:OL:195:LEU:HD23	24:OL:264:ARG:HD2	1.70	0.74
19:G4:301:TYR:O	19:G4:305:SER:HB2	1.87	0.74
19:H5:134:LEU:HD22	19:H5:171:LEU:HB3	1.70	0.74
19:H5:210:ALA:O	19:H5:214:LEU:HB3	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:H7:402:ARG:HA	19:H7:405:LYS:HE2	1.70	0.74
24:WD:273:ALA:HB3	24:WD:375:VAL:HB	1.70	0.74
19:G1:262:PHE:O	19:G1:268:LYS:NZ	2.20	0.74
24:OL:271:SER:HB2	24:OL:377:MET:HB3	1.70	0.74
2:1C:1708:LEU:HD13	2:1C:1833:GLU:HB2	1.68	0.73
26:O0:385:ILE:HG22	26:O0:389:GLN:HE22	1.53	0.73
24:XN:54:SER:HB2	24:XN:64:ARG:HE	1.53	0.73
24:ZP:273:ALA:HB3	24:ZP:375:VAL:HB	1.70	0.73
28:Q0:2209:LEU:HD12	28:Q0:2642:LEU:HD11	1.69	0.73
24:VH:259:LEU:HD21	24:VH:316:CYS:HB2	1.71	0.73
4:2A:817:ASN:O	4:2A:846:LEU:HA	1.88	0.73
19:H5:182:SER:HA	19:H5:185:ARG:HE	1.52	0.73
22:M0:753:ILE:HG22	22:M0:756:ARG:HH21	1.53	0.73
24:QF:305:CYS:HB3	24:QF:387:ILE:HD11	1.71	0.73
25:UO:248:ALA:HA	25:UO:252:LYS:HG3	1.70	0.73
2:1D:1718:ASN:HD21	2:1D:1794:LEU:HB2	1.53	0.73
24:UJ:203:MET:HB3	24:UJ:303:VAL:HG21	1.71	0.73
25:WA:318:ARG:HE	25:WA:358:PRO:HD3	1.52	0.73
20:E2:345:SER:HB3	20:E2:348:ARG:HG2	1.71	0.73
18:C3:1613:PRO:HG2	18:C3:1916:GLU:HG2	1.71	0.73
19:G5:11:GLU:OE2	19:G5:15:LYS:NZ	2.22	0.73
25:WG:285:THR:HG22	25:WG:287:PRO:HD2	1.71	0.73
2:1B:1807:GLU:OE2	2:1B:1811:ARG:NH1	2.22	0.72
18:C1:838:ARG:HD3	43:C1:2001:ANP:H1'	1.71	0.72
24:PD:222:PRO:HD2	25:PE:324:LYS:HD3	1.70	0.72
25:QM:248:ALA:HA	25:QM:252:LYS:HD3	1.70	0.72
24:RD:308:ARG:NH1	24:RD:340:THR:O	2.22	0.72
25:UK:7:ILE:HG22	25:UK:64:ILE:HB	1.69	0.72
24:XJ:101:ASN:HD22	25:XK:256:ASN:HD21	1.35	0.72
40:Y7:209:GLU:HB3	40:Y7:287:ASP:HB3	1.71	0.72
16:A2:137:PRO:HG2	25:YG:306:ARG:HE	1.53	0.72
18:C1:496:ARG:HH22	18:C1:554:LEU:H	1.37	0.72
24:PN:206:ASN:ND2	44:PN:501:GTP:HN22	1.87	0.72
25:SG:3:GLU:HB3	25:SG:62:ARG:HH12	1.54	0.72
2:1B:2031:ARG:NH2	2:1B:2244:ASP:OD2	2.22	0.72
18:C3:599:LEU:O	18:C3:826:VAL:HA	1.88	0.72
25:WO:285:THR:HG22	25:WO:287:PRO:HD2	1.71	0.72
40:Y0:456:ARG:HA	40:Y1:53:ARG:HH22	1.55	0.72
24:VN:217:LEU:HD21	24:VN:275:ILE:HG12	1.72	0.72
25:UM:285:THR:HG22	25:UM:287:PRO:HD2	1.71	0.72
25:XK:237:THR:HG22	25:XK:250:LEU:HD11	1.69	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:ZF:137:VAL:HG21	24:ZF:154:LEU:HD21	1.71	0.72
19:H7:253:PHE:HA	19:H7:256:ILE:HD12	1.70	0.72
19:D3:361:GLY:O	19:D3:365:ARG:NH1	2.23	0.72
19:I0:34:ILE:HA	19:I0:37:LEU:HD23	1.72	0.72
24:PH:318:MET:HB2	24:PH:376:CYS:HB3	1.72	0.72
24:VD:298:PRO:HG3	24:VD:308:ARG:HH12	1.54	0.72
2:1B:2044:ALA:HB3	2:1B:2077:LEU:HD12	1.72	0.71
18:C0:1218:VAL:HG13	18:C0:1517:ARG:HH21	1.52	0.71
18:C1:599:LEU:O	18:C1:826:VAL:HA	1.89	0.71
25:VO:69:GLU:HG3	25:VO:71:GLY:H	1.55	0.71
40:Y0:252:GLU:HA	40:Y0:447:ARG:HH21	1.55	0.71
2:1D:2044:ALA:HB1	2:1D:2110:LEU:HD11	1.70	0.71
17:B1:356:ARG:HG2	26:O0:430:GLN:HG2	1.71	0.71
19:H7:350:ASP:HA	19:H7:353:LYS:HG2	1.72	0.71
25:TK:2:ARG:HB3	25:TK:131:GLN:HB2	1.71	0.71
33:U0:48:GLU:HB2	33:U0:70:LYS:HG2	1.70	0.71
21:F3:24:LYS:HE2	24:VD:419:SER:HB2	1.73	0.71
25:PG:178:THR:HB	25:PG:181:GLU:HG3	1.72	0.71
30:S3:105:ALA:HA	25:WA:277:GLY:HA3	1.70	0.71
24:OP:101:ASN:OD1	25:OQ:252:LYS:NZ	2.23	0.71
25:QO:330:MET:HB3	25:QO:349:VAL:HG21	1.72	0.71
25:RG:205:GLU:HA	25:RG:208:TYR:HB2	1.71	0.71
25:QE:207:LEU:HB3	25:QE:225:LEU:HD22	1.71	0.71
19:D0:294:GLY:O	19:D0:298:LEU:HB2	1.90	0.71
32:T0:538:LYS:O	24:YL:164:LYS:NZ	2.24	0.71
21:F3:118:SER:O	21:F3:147:LYS:NZ	2.23	0.71
19:G0:383:LEU:O	19:G0:401:ARG:NH2	2.23	0.71
25:RI:49:VAL:HG21	25:RI:241:ARG:HG2	1.72	0.71
25:VI:7:ILE:HB	25:VI:135:VAL:HG12	1.73	0.71
18:C3:1671:GLU:H	18:C3:1748:LYS:HZ1	1.39	0.71
25:PE:318:ARG:HE	25:PE:358:PRO:HD3	1.53	0.71
28:Q1:508:ILE:HG21	28:Q1:635:LEU:HD21	1.73	0.71
25:TI:7:ILE:HB	25:TI:135:VAL:HG12	1.72	0.71
25:TK:71:GLY:HA3	24:TL:2:ARG:HH22	1.56	0.71
25:WK:396:HIS:HA	25:WK:399:THR:HG22	1.72	0.71
19:G5:400:CYS:SG	19:G5:401:ARG:NH2	2.64	0.71
24:NJ:217:LEU:HD21	24:NJ:275:ILE:HG22	1.73	0.71
25:QM:207:LEU:HB3	25:QM:225:LEU:HD22	1.72	0.71
24:TL:132:LEU:HD22	24:TL:164:LYS:HD3	1.73	0.71
25:WK:11:GLN:HE22	24:WL:249:ASN:H	1.39	0.71
24:OP:318:MET:HB3	24:OP:376:CYS:HB3	1.71	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1D:2461:GLN:HA	2:1D:2464:LYS:HD2	1.72	0.70
16:A1:137:PRO:HG2	25:YK:306:ARG:HE	1.56	0.70
16:A3:118:ARG:NH2	25:XC:159:TYR:OH	2.24	0.70
19:H3:402:ARG:HA	19:H3:405:LYS:HE2	1.72	0.70
23:N3:74:VAL:O	23:N3:78:GLN:NE2	2.24	0.70
18:C1:1778:ASP:HB3	18:C1:1784:GLY:HA3	1.72	0.70
19:H5:301:TYR:O	19:H5:305:SER:HB2	1.90	0.70
28:Q1:3029:VAL:HG12	28:Q1:3080:VAL:HG23	1.73	0.70
25:SG:174:LYS:HG3	25:SG:175:VAL:HG13	1.72	0.70
25:VE:418:LEU:HA	25:VE:421:GLU:HB2	1.73	0.70
16:A2:62:SER:OG	24:XH:112:LYS:NZ	2.24	0.70
18:C1:1265:GLU:HA	18:C1:1268:ARG:HG2	1.73	0.70
25:RK:198:GLU:HA	25:RK:264:HIS:HB2	1.73	0.70
19:D6:114:SER:HB3	19:D6:117:LEU:HD23	1.73	0.70
19:H3:301:TYR:O	19:H3:305:SER:HB2	1.92	0.70
25:NC:248:ALA:HA	25:NC:252:LYS:HG3	1.72	0.70
24:PN:203:MET:HG3	24:PN:303:VAL:HG11	1.72	0.70
25:TM:2:ARG:HE	25:TM:46:ARG:HH22	1.40	0.70
25:XK:205:GLU:HA	25:XK:208:TYR:HB2	1.72	0.70
25:YK:100:ASN:HD22	25:YK:103:LYS:HG3	1.54	0.70
25:YO:291:GLN:O	25:YO:295:ASP:HB2	1.91	0.70
24:ZF:203:MET:HB3	24:ZF:303:VAL:HG21	1.74	0.70
19:D2:259:CYS:HG	19:D2:271:SER:HG	1.37	0.70
25:RM:221:THR:HG23	25:RM:223:GLY:H	1.56	0.70
24:SB:208:ALA:HA	24:SB:304:LYS:HE3	1.74	0.70
25:TC:248:ALA:HA	25:TC:252:LYS:HD3	1.72	0.70
25:ZE:248:ALA:HA	25:ZE:252:LYS:HG3	1.73	0.70
2:1A:2044:ALA:HB1	2:1A:2110:LEU:HD11	1.74	0.70
17:B2:323:LEU:HD21	24:RF:339:ARG:HH22	1.57	0.70
24:UB:392:ASP:OD1	24:UB:422:ARG:NH1	2.25	0.70
25:YK:421:GLU:HA	25:YK:424:GLN:HB3	1.73	0.70
25:ZO:193:VAL:HG11	25:ZO:418:LEU:HD21	1.73	0.70
2:1C:1605:GLU:HB2	2:1C:1700:LYS:HE2	1.74	0.70
28:Q1:224:THR:HG22	28:Q1:282:LEU:HD21	1.72	0.70
24:QP:271:SER:HB2	24:QP:377:MET:HB3	1.74	0.70
24:NB:301:MET:HG3	24:NB:303:VAL:H	1.55	0.70
25:NK:174:LYS:HG3	25:NK:175:VAL:HG13	1.74	0.70
32:T1:521:LYS:HB2	32:T1:524:GLU:HG3	1.74	0.70
25:VG:173:PRO:HG2	25:VG:380:ARG:HE	1.57	0.70
24:VL:254:GLU:HG3	24:VL:352:LYS:HZ1	1.57	0.70
2:1C:2100:ARG:HH12	18:C2:1597:ARG:HG2	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:A1:59:THR:HA	24:XL:112:LYS:HZ1	1.56	0.69
25:RK:248:ALA:HA	25:RK:252:LYS:HG3	1.74	0.69
25:RM:285:THR:HG22	25:RM:287:PRO:HD2	1.74	0.69
25:ZG:260:PHE:HB2	25:ZG:263:LEU:HD13	1.74	0.69
19:D2:376:ASP:HB3	26:O1:201:ARG:HG2	1.74	0.69
25:WG:257:LEU:HD21	25:WG:314:SER:HB2	1.74	0.69
41:Z3:43:VAL:HG23	41:Z3:52:ILE:HG12	1.74	0.69
24:ND:238:LEU:HA	24:ND:318:MET:HE1	1.73	0.69
25:NM:248:ALA:HA	25:NM:252:LYS:HG3	1.73	0.69
24:RH:213:CYS:HA	24:RH:217:LEU:HD13	1.75	0.69
25:TK:220:PRO:HG2	24:TL:326:LYS:HE3	1.74	0.69
25:YI:178:THR:HG22	24:YJ:258:ASN:HD21	1.56	0.69
2:1D:2044:ALA:H	2:1D:2077:LEU:HB3	1.57	0.69
18:C3:1773:LEU:HD21	18:C3:1810:ILE:HA	1.74	0.69
19:L1:477:ILE:HG22	19:L1:480:SER:HB3	1.74	0.69
24:NF:316:CYS:HA	24:NF:352:LYS:HB3	1.73	0.69
25:QE:178:THR:HB	25:QE:181:GLU:HB2	1.74	0.69
21:F1:84:GLU:OE2	21:F1:88:GLN:NE2	2.25	0.69
19:J0:301:TYR:O	19:J0:305:SER:HB2	1.92	0.69
25:QO:205:GLU:HA	25:QO:208:TYR:HB2	1.75	0.69
24:TP:259:LEU:HD21	24:TP:316:CYS:HB2	1.74	0.69
25:VI:131:GLN:O	25:VI:163:MET:HB3	1.93	0.69
25:WI:257:LEU:HD21	25:WI:314:SER:HB3	1.73	0.69
25:YC:248:ALA:HA	25:YC:252:LYS:HD3	1.75	0.69
24:PF:102:ASN:ND2	24:PF:411:GLU:OE2	2.24	0.69
25:PM:220:PRO:O	24:PN:326:LYS:NZ	2.26	0.69
25:YM:376:GLU:HA	25:YM:379:LYS:HG2	1.74	0.69
18:C3:1217:LEU:HD22	18:C3:1220:ARG:HH22	1.56	0.69
19:J1:46:LEU:HA	19:J1:49:LEU:HD12	1.73	0.69
19:J1:122:ILE:HD11	19:J1:159:LEU:HG	1.75	0.69
25:TG:164:MET:HB3	25:TG:197:ASP:H	1.58	0.69
25:WM:375:GLN:HE21	25:WM:419:VAL:HB	1.56	0.69
18:C1:1268:ARG:NH2	18:C1:1480:LEU:O	2.26	0.69
19:H1:101:GLN:HB3	19:H1:141:VAL:HG22	1.75	0.69
22:M1:790:TYR:HB2	28:Q1:1222:ARG:HE	1.58	0.69
28:Q0:297:VAL:HG23	28:Q0:300:GLN:HE21	1.56	0.69
25:RC:7:ILE:HB	25:RC:135:VAL:HG12	1.74	0.69
30:S2:86:ASN:H	25:WE:276:ARG:HH12	1.38	0.69
25:VK:375:GLN:HE21	25:VK:419:VAL:HB	1.58	0.69
24:VP:259:LEU:HD11	24:VP:316:CYS:HB2	1.75	0.69
24:WH:56:THR:HG22	24:XH:285:GLN:HB2	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:YM:7:ILE:HB	25:YM:135:VAL:HG12	1.74	0.69
21:F0:317:ASN:O	21:F0:421:ARG:HA	1.92	0.69
19:G3:260:LEU:HD11	19:G3:297:ALA:HB1	1.74	0.69
19:J1:240:SER:HB2	19:J1:243:LEU:HD23	1.73	0.69
19:J2:21:VAL:HG11	19:J2:57:ILE:HG23	1.75	0.69
19:J3:108:ARG:HD3	19:J3:147:TRP:HB3	1.74	0.69
24:XB:203:MET:HB3	24:XB:303:VAL:HG21	1.75	0.69
2:1C:2044:ALA:HB1	2:1C:2110:LEU:HD11	1.75	0.69
2:1D:2072:VAL:HG21	2:1D:2077:LEU:HD12	1.74	0.69
19:D2:348:PRO:HG2	19:D2:352:LEU:HD23	1.75	0.69
25:SG:286:VAL:HA	25:SG:289:LEU:HB2	1.75	0.69
24:SP:417:GLU:HA	24:SP:420:GLU:HB3	1.76	0.69
24:UJ:223:THR:HG22	25:UK:322:SER:HA	1.75	0.69
39:X3:219:ALA:HA	39:X3:241:ARG:HH12	1.57	0.69
24:XD:301:MET:HG3	24:XD:303:VAL:H	1.57	0.69
24:XL:203:MET:HB3	24:XL:303:VAL:HG21	1.74	0.69
2:1B:1708:LEU:HD13	2:1B:1833:GLU:HB2	1.75	0.68
18:C3:162:ASN:HB2	18:C3:165:ALA:HB3	1.75	0.68
19:G0:194:ILE:HG22	19:G0:201:LEU:HD21	1.74	0.68
19:L0:227:ARG:NH2	19:L0:264:ASP:OD2	2.26	0.68
24:PH:90:GLU:HG3	24:PH:121:ARG:HE	1.57	0.68
24:TF:221:ARG:NH1	25:TG:325:GLU:OE1	2.27	0.68
25:TG:131:GLN:HE22	25:TG:250:LEU:HB2	1.56	0.68
25:VM:118:ASP:OD1	25:VM:122:LYS:NZ	2.26	0.68
25:WM:257:LEU:HD21	25:WM:314:SER:HB2	1.75	0.68
19:D0:257:LEU:HD11	19:D0:294:GLY:HA2	1.74	0.68
19:L3:311:LEU:HD22	19:L3:352:LEU:HD21	1.75	0.68
24:NJ:324:VAL:HG12	24:NJ:326:LYS:H	1.58	0.68
25:XG:100:ASN:HB3	25:XG:103:LYS:HB2	1.76	0.68
19:I1:324:SER:HB3	19:I1:327:LEU:HD23	1.74	0.68
30:S0:38:LYS:HZ1	25:XM:77:ARG:HH22	1.42	0.68
25:UG:333:VAL:HA	25:UG:336:LYS:HE3	1.75	0.68
24:WJ:259:LEU:HD11	24:WJ:316:CYS:HB2	1.74	0.68
25:YM:257:LEU:HD21	25:YM:314:SER:HB2	1.74	0.68
2:1D:1930:ALA:HA	2:1D:1956:THR:O	1.93	0.68
14:8B:71:ARG:HH21	24:WL:245:ASP:HA	1.56	0.68
18:C4:72:VAL:HG11	18:C4:96:SER:HB2	1.75	0.68
19:I1:301:TYR:O	19:I1:305:SER:HB2	1.93	0.68
19:J3:156:ASN:HB2	19:J3:159:LEU:HD23	1.76	0.68
22:M1:59:TYR:O	22:M1:107:GLU:HA	1.93	0.68
25:PC:7:ILE:HB	25:PC:135:VAL:HG12	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:PN:175:PRO:HB3	24:PN:390:ARG:HE	1.57	0.68
24:TB:221:ARG:NH2	24:TB:222:PRO:O	2.27	0.68
18:C0:613:LEU:HD11	18:C0:766:VAL:HG11	1.76	0.68
19:H6:47:ARG:NH2	19:H6:82:ASN:O	2.26	0.68
24:RF:240:ALA:HB3	24:RF:320:ARG:HH12	1.58	0.68
14:8A:255:ARG:NH1	19:J3:71:TYR:O	2.27	0.68
24:QH:88:HIS:HE1	24:RH:284:GLU:HG2	1.58	0.68
25:WG:198:GLU:HA	25:WG:264:HIS:HB2	1.76	0.68
25:WK:7:ILE:HB	25:WK:135:VAL:HG12	1.74	0.68
24:WL:273:ALA:HB3	24:WL:375:VAL:HB	1.75	0.68
40:Y1:44:PRO:O	40:Y1:71:ARG:NH2	2.26	0.68
40:Y1:46:GLU:H	40:Y1:71:ARG:HH22	1.42	0.68
25:YO:131:GLN:O	25:YO:163:MET:HB2	1.93	0.68
18:C3:696:ALA:HA	18:C3:699:LYS:HE2	1.76	0.68
19:J1:268:LYS:HB3	19:J1:301:TYR:HE1	1.58	0.68
28:Q1:2267:LYS:HE3	28:Q1:2355:VAL:HG11	1.76	0.68
25:SM:309:ARG:HH22	25:SM:343:GLU:HG2	1.59	0.68
39:X2:528:LEU:HD13	39:X2:572:LEU:HD11	1.74	0.68
25:XA:7:ILE:HB	25:XA:135:VAL:HG12	1.74	0.68
18:C1:427:ARG:NH2	18:C1:430:GLU:OE2	2.26	0.68
25:QK:334:GLN:HE22	25:QK:347:ASN:HA	1.57	0.68
25:QM:221:THR:HG23	25:QM:223:GLY:H	1.59	0.68
29:R1:2497:ARG:H	29:R1:2762:TRP:HA	1.59	0.68
24:XF:272:TYR:HB3	24:XF:275:ILE:HD11	1.75	0.68
25:XG:98:GLY:HA2	24:XH:254:GLU:HG2	1.76	0.68
18:C3:902:ARG:HH22	18:C3:908:ARG:HH11	1.40	0.68
18:C4:92:ARG:NH1	21:F3:78:CYS:O	2.27	0.68
19:L3:185:ARG:HD3	19:L3:224:LYS:HB2	1.75	0.68
24:QH:101:ASN:HA	24:QH:144:GLY:H	1.59	0.68
25:QC:131:GLN:HE22	25:QC:250:LEU:HB2	1.57	0.68
25:WE:211:CYS:HB2	24:WF:326:LYS:HZ3	1.59	0.68
40:Y0:443:CYS:SG	40:Y1:444:ARG:NH2	2.67	0.68
24:ZD:273:ALA:HB3	24:ZD:375:VAL:HB	1.76	0.68
25:ZK:213:ARG:HH12	25:ZK:297:LYS:HB3	1.59	0.68
19:D2:114:SER:HB3	19:D2:117:LEU:HD23	1.75	0.67
26:O1:738:ASN:O	26:O1:842:TYR:HA	1.94	0.67
25:OG:237:THR:HG23	25:OG:241:ARG:HH12	1.58	0.67
24:QP:268:MET:SD	24:QP:380:ASN:ND2	2.67	0.67
24:VP:205:ASP:OD2	24:VP:304:LYS:NZ	2.27	0.67
25:XK:198:GLU:HA	25:XK:264:HIS:HB2	1.76	0.67
40:Y3:17:GLU:O	40:Y3:21:ASN:ND2	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:Y6:66:ALA:HB3	40:Y6:77:ALA:HB3	1.74	0.67
24:YN:102:ASN:HB3	24:YN:105:ARG:HB2	1.77	0.67
2:1D:1932:GLN:NE2	18:C3:1615:HIS:O	2.27	0.67
19:K2:43:MET:SD	19:K2:47:ARG:NH1	2.67	0.67
26:O2:112:VAL:HG11	26:O2:210:MET:HG3	1.76	0.67
25:OE:16:ILE:HD11	25:OE:229:ILE:HG21	1.76	0.67
25:OI:139:LEU:HD12	25:OI:170:VAL:HG12	1.76	0.67
24:PD:203:MET:HB3	24:PD:303:VAL:HG21	1.76	0.67
25:PO:314:SER:HB3	25:PO:368:ILE:HB	1.76	0.67
28:Q1:2129:PRO:HG2	28:Q1:2183:HIS:HB2	1.76	0.67
24:QP:220:GLU:O	25:QQ:324:LYS:NZ	2.28	0.67
2:1B:2076:ARG:HH22	18:C1:1575:ARG:HG3	1.59	0.67
19:L2:432:MET:SD	19:L2:453:HIS:NE2	2.67	0.67
25:OI:21:TRP:HA	25:OI:24:VAL:HG12	1.77	0.67
25:QG:330:MET:HB3	25:QG:349:VAL:HG21	1.75	0.67
24:RP:273:ALA:HB3	24:RP:375:VAL:H	1.59	0.67
33:U0:194:ARG:HH22	33:U0:202:SER:HB3	1.60	0.67
2:1B:1545:LEU:HD21	2:1B:2001:VAL:HG11	1.77	0.67
23:N1:58:LYS:HA	23:N1:62:LEU:HD22	1.76	0.67
24:UH:387:ILE:HG13	24:UH:390:ARG:HH12	1.58	0.67
39:X0:528:LEU:HD13	39:X0:572:LEU:HD11	1.76	0.67
25:XC:174:LYS:NZ	24:XD:329:ASN:O	2.27	0.67
2:1B:2461:GLN:HA	2:1B:2464:LYS:HD2	1.76	0.67
4:2A:303:TYR:H	4:2A:390:ARG:HH12	1.40	0.67
16:A0:137:PRO:HG2	25:YO:306:ARG:HE	1.60	0.67
17:B1:272:GLU:OE2	25:QM:424:GLN:NE2	2.26	0.67
19:H4:156:ASN:HB3	19:H4:159:LEU:HD23	1.77	0.67
19:H5:59:GLN:HG3	19:H5:98:PHE:HB3	1.75	0.67
25:NM:334:GLN:HE22	25:NM:348:ASN:H	1.41	0.67
24:QP:101:ASN:HA	24:QP:144:GLY:H	1.59	0.67
25:RK:313:ALA:HB3	25:RK:349:VAL:HG22	1.77	0.67
24:XL:71:GLU:HB2	24:XL:98:ASP:HB3	1.75	0.67
24:ZN:215:ARG:HH12	24:ZN:299:ALA:HB1	1.59	0.67
2:1A:1542:ARG:HH22	2:1A:2049:ASN:HD21	1.41	0.67
14:8C:23:GLY:O	25:YI:320:ARG:NH1	2.28	0.67
18:C1:689:ARG:HG2	18:C1:693:GLN:HE22	1.58	0.67
19:D3:70:ASN:O	19:D3:112:ARG:NH2	2.27	0.67
19:L0:184:LYS:HD2	19:L0:225:LEU:HD21	1.76	0.67
22:M0:764:GLY:H	28:Q0:1628:ASN:HD21	1.41	0.67
24:ND:56:THR:HG22	24:OF:285:GLN:HB2	1.77	0.67
24:OP:73:THR:HA	25:OQ:46:ARG:HH22	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:QJ:394:LYS:HE2	25:QK:346:PRO:HB3	1.77	0.67
24:VJ:259:LEU:HD21	24:VJ:316:CYS:HB2	1.75	0.67
20:E3:149:ARG:NH2	20:E3:153:GLY:O	2.27	0.67
19:H6:114:SER:HB3	19:H6:117:LEU:HD13	1.75	0.67
25:PM:7:ILE:HB	25:PM:135:VAL:HG12	1.77	0.67
24:WN:205:ASP:HB3	24:WN:303:VAL:HA	1.77	0.67
24:YL:212:ILE:HD11	24:YL:300:SER:HA	1.75	0.67
25:YO:313:ALA:HB3	25:YO:349:VAL:HG22	1.76	0.67
25:ZI:7:ILE:HB	25:ZI:135:VAL:HG12	1.77	0.67
2:1C:1807:GLU:OE2	2:1C:1811:ARG:NH1	2.28	0.67
18:C1:1644:MET:SD	18:C1:1647:GLN:NE2	2.67	0.67
24:OF:202:VAL:HA	24:OF:268:MET:HB2	1.76	0.67
25:VC:7:ILE:HB	25:VC:135:VAL:HG12	1.76	0.67
24:ZF:31:GLN:HE21	24:ZF:37:PRO:HG3	1.59	0.67
19:D1:185:ARG:HH11	19:D1:224:LYS:HZ2	1.43	0.67
19:D1:210:ALA:O	19:D1:214:LEU:HB2	1.94	0.67
19:D5:185:ARG:HB3	19:D5:225:LEU:HD23	1.77	0.67
21:F2:100:GLU:OE1	21:F2:103:GLN:NE2	2.27	0.67
24:TP:90:GLU:OE1	24:UP:280:LYS:NZ	2.24	0.67
24:TP:132:LEU:HD22	24:TP:164:LYS:HD3	1.76	0.67
24:UD:88:HIS:HB3	24:UD:91:GLN:HB2	1.76	0.67
24:UL:259:LEU:HD11	24:UL:316:CYS:HB2	1.77	0.67
24:YD:154:LEU:HB3	24:YD:197:HIS:HB3	1.77	0.67
24:ZB:259:LEU:HD11	24:ZB:316:CYS:HB3	1.77	0.67
25:OG:7:ILE:HB	25:OG:135:VAL:HG12	1.75	0.67
25:PO:236:ILE:HG23	25:PO:237:THR:HG23	1.77	0.67
25:PQ:412:GLU:O	25:PQ:416:ASN:ND2	2.28	0.67
28:Q1:2049:ALA:O	28:Q1:2053:TRP:HB3	1.95	0.67
25:QK:7:ILE:HB	25:QK:135:VAL:HG12	1.76	0.67
25:TM:200:MET:HG2	25:TM:266:PHE:HB2	1.76	0.67
40:Y4:376:ILE:HB	40:Y4:409:TRP:HE1	1.59	0.67
18:C0:784:LEU:HD22	18:C0:820:GLY:HA2	1.78	0.66
23:N2:71:GLN:HA	23:N2:78:GLN:HE22	1.59	0.66
24:NJ:184:PRO:HG3	24:NJ:394:LYS:HG3	1.77	0.66
25:OO:257:LEU:HD21	25:OO:314:SER:HB2	1.75	0.66
24:WD:221:ARG:NH1	25:WE:322:SER:OG	2.27	0.66
24:WD:272:TYR:HB3	24:WD:275:ILE:HD11	1.75	0.66
24:XL:71:GLU:OE1	25:XM:247:ASN:ND2	2.29	0.66
24:ZB:184:PRO:HG3	24:ZB:394:LYS:HG3	1.78	0.66
18:C0:838:ARG:HD3	43:C0:2001:ANP:H1'	1.77	0.66
18:C2:1778:ASP:HB3	18:C2:1784:GLY:HA3	1.75	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:F1:82:ILE:HA	21:F1:178:ARG:HH12	1.59	0.66
28:Q1:43:HIS:O	28:Q1:47:GLN:NE2	2.29	0.66
25:QC:268:VAL:HG22	25:QC:368:ILE:HA	1.76	0.66
24:RL:402:ARG:HD3	24:RL:405:VAL:HG21	1.77	0.66
25:RM:207:LEU:HD11	25:RM:229:ILE:HD11	1.78	0.66
32:T2:123:GLU:HA	32:T2:176:VAL:O	1.95	0.66
24:TL:271:SER:HB2	24:TL:377:MET:HB3	1.77	0.66
40:Y1:286:MET:HB2	40:Y1:336:ILE:HA	1.78	0.66
25:YK:248:ALA:HA	25:YK:252:LYS:HD3	1.77	0.66
25:ZC:164:MET:HB3	25:ZC:197:ASP:H	1.59	0.66
2:1A:1573:PRO:O	2:1A:1924:ARG:NH2	2.28	0.66
2:1A:2044:ALA:H	2:1A:2077:LEU:HB3	1.59	0.66
19:L3:253:PHE:HA	19:L3:256:ILE:HD12	1.75	0.66
25:PI:49:VAL:HG21	25:PI:241:ARG:HG2	1.77	0.66
25:RM:237:THR:HG23	25:RM:241:ARG:HH12	1.60	0.66
24:WJ:65:CYS:O	24:WJ:91:GLN:NE2	2.29	0.66
25:WM:325:GLU:HA	25:WM:328:GLU:HG3	1.77	0.66
4:2A:283:MET:HA	24:OP:409:VAL:HG11	1.77	0.66
19:L3:108:ARG:HD3	19:L3:147:TRP:HB3	1.77	0.66
26:O2:119:HIS:HD2	26:O2:203:ALA:HB2	1.60	0.66
25:QI:248:ALA:HA	25:QI:252:LYS:HD3	1.76	0.66
25:RC:318:ARG:HE	25:RC:358:PRO:HD3	1.59	0.66
24:RH:272:TYR:HB3	24:RH:275:ILE:HD11	1.77	0.66
24:WJ:394:LYS:HZ3	25:WK:346:PRO:HB2	1.60	0.66
25:WM:54:ALA:HA	25:XM:283:ALA:HB2	1.75	0.66
25:XK:170:VAL:HG21	25:XK:201:VAL:HG13	1.78	0.66
17:B0:668:GLU:O	33:U1:150:GLN:NE2	2.28	0.66
18:C0:1392:TRP:HE1	18:C0:1438:GLY:HA2	1.60	0.66
18:C4:185:GLU:OE1	24:WD:339:ARG:NH2	2.27	0.66
19:J1:185:ARG:HH12	19:J1:224:LYS:HE2	1.60	0.66
24:NF:261:PRO:HG3	24:NF:313:MET:HG2	1.77	0.66
28:Q0:32:LYS:HD3	28:Q0:33:PRO:HD2	1.78	0.66
29:R0:2657:THR:H	29:R0:2660:ALA:HB3	1.60	0.66
25:UC:99:ASN:ND2	24:UD:254:GLU:OE2	2.29	0.66
25:VK:253:LEU:HD21	25:VK:316:LEU:HD21	1.78	0.66
39:X0:601:ARG:NH1	39:X0:602:VAL:O	2.29	0.66
25:XI:170:VAL:HG21	25:XI:201:VAL:HG13	1.78	0.66
41:Z0:431:GLU:HG3	41:Z0:483:ILE:HG12	1.77	0.66
18:C1:1217:LEU:HD22	18:C1:1220:ARG:HH22	1.60	0.66
21:F3:317:ASN:O	21:F3:421:ARG:HA	1.95	0.66
19:H7:225:LEU:HD22	19:H7:226:LYS:HZ2	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:J3:34:ILE:HA	19:J3:37:LEU:HD23	1.77	0.66
25:NC:54:ALA:HA	25:OE:283:ALA:HB2	1.77	0.66
24:PH:203:MET:HB3	24:PH:303:VAL:HG21	1.78	0.66
29:R1:164:ARG:HG2	29:R1:167:LEU:HD12	1.77	0.66
25:SO:207:LEU:HB3	25:SO:225:LEU:HD22	1.77	0.66
25:UI:45:GLU:HG2	25:UI:46:ARG:HG2	1.76	0.66
25:WG:219:THR:HB	24:WH:324:VAL:HG11	1.77	0.66
2:1A:1328:THR:O	2:1A:1331:GLN:NE2	2.28	0.66
19:D1:138:ASP:HB3	19:D1:141:VAL:HG12	1.78	0.66
19:H0:84:ILE:O	19:H0:88:LEU:HB2	1.96	0.66
25:OM:309:ARG:NH1	25:OM:339:SER:O	2.29	0.66
24:PF:318:MET:HB2	24:PF:376:CYS:HB3	1.76	0.66
24:PN:73:THR:OG1	25:PO:247:ASN:ND2	2.29	0.66
28:Q1:1594:THR:H	28:Q1:1597:LEU:HD12	1.60	0.66
24:TN:273:ALA:HB3	24:TN:375:VAL:H	1.60	0.66
24:UN:271:SER:HB2	24:UN:377:MET:HB3	1.76	0.66
25:VE:156:ARG:HH22	25:VE:197:ASP:HB2	1.61	0.66
25:VI:262:ARG:NH2	25:VI:417:ASP:OD2	2.29	0.66
24:YP:318:MET:HB2	24:YP:376:CYS:HB3	1.77	0.66
24:RL:137:VAL:HG21	24:RL:154:LEU:HD11	1.76	0.66
24:TF:271:SER:HB2	24:TF:377:MET:HB3	1.77	0.66
25:XG:60:VAL:HG21	25:XG:86:ARG:HG3	1.76	0.66
18:C2:1606:GLY:HA2	18:C2:1609:ARG:HD3	1.76	0.66
18:C3:496:ARG:NH2	18:C3:551:GLY:O	2.29	0.66
19:L0:97:ARG:NH2	25:UK:410:GLU:OE1	2.29	0.66
25:NI:237:THR:HG23	25:NI:240:LEU:HD12	1.78	0.66
24:NJ:71:GLU:HB3	24:NJ:98:ASP:HB3	1.77	0.66
24:OD:276:ILE:HG23	24:OD:280:LYS:HB3	1.77	0.66
24:OH:71:GLU:HB3	24:OH:98:ASP:HB3	1.78	0.66
25:QM:67:ASP:OD2	25:QM:72:THR:OG1	2.14	0.66
24:RJ:271:SER:HB2	24:RJ:377:MET:HB3	1.76	0.66
24:TH:272:TYR:HB3	24:TH:275:ILE:HD11	1.78	0.66
25:XK:60:VAL:HG11	25:XK:86:ARG:HG3	1.77	0.66
25:ZM:234:SER:O	25:ZM:241:ARG:NH1	2.28	0.66
19:D6:273:THR:HA	19:D6:276:ARG:HD3	1.78	0.66
21:F3:115:ASP:OD2	21:F3:119:ARG:NH1	2.29	0.66
19:J0:17:ARG:NH2	19:J0:52:ASP:OD2	2.28	0.66
19:L1:479:ASN:O	19:L1:483:PRO:HD2	1.96	0.66
24:OH:259:LEU:HD21	24:OH:316:CYS:HB3	1.78	0.66
24:SH:54:SER:HB3	24:SH:64:ARG:HE	1.60	0.66
25:SM:54:ALA:HB3	25:SM:58:ARG:HB2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:XA:113:ILE:HG13	25:XA:150:LEU:HD22	1.77	0.66
24:XB:96:LYS:HZ1	25:XC:128:ASP:HB3	1.61	0.66
17:B1:401:ARG:NH1	25:RM:106:TYR:O	2.27	0.65
18:C1:1046:ARG:NH2	18:C1:1060:ALA:O	2.28	0.65
19:D4:13:TYR:OH	19:D5:17:ARG:NH1	2.28	0.65
19:J2:168:ALA:O	19:J2:172:LEU:HB2	1.95	0.65
24:ND:292:THR:HG1	24:ND:319:TYR:HH	1.43	0.65
25:OI:8:GLN:NE2	25:OI:13:GLY:O	2.29	0.65
25:OM:166:THR:HG21	25:OM:192:LEU:HD11	1.78	0.65
25:PO:220:PRO:O	24:PP:326:LYS:NZ	2.29	0.65
25:PQ:330:MET:HB3	25:PQ:349:VAL:HG21	1.77	0.65
24:QL:176:GLN:HG2	24:QL:177:VAL:HG23	1.78	0.65
25:QM:260:PHE:HB2	25:QM:263:LEU:HD13	1.78	0.65
24:RF:286:LEU:HD13	24:RF:371:VAL:HG23	1.77	0.65
25:RK:318:ARG:HE	25:RK:358:PRO:HD3	1.61	0.65
25:TG:238:CYS:HB2	25:TG:318:ARG:HH11	1.61	0.65
24:UN:88:HIS:HB3	24:UN:91:GLN:HB2	1.78	0.65
24:WD:271:SER:OG	24:WD:301:MET:SD	2.53	0.65
39:X0:96:VAL:HG23	39:X0:118:ASP:HB3	1.79	0.65
24:NJ:90:GLU:OE1	24:NJ:121:ARG:NH1	2.27	0.65
24:RN:206:ASN:ND2	44:RN:501:GTP:O2'	2.30	0.65
25:SC:271:THR:HA	25:SC:298:ASN:HD21	1.61	0.65
24:TD:96:LYS:NZ	25:TE:129:CYS:SG	2.69	0.65
25:WG:171:PRO:HG3	25:WG:181:GLU:HG2	1.77	0.65
2:1B:2456:VAL:HG13	18:C1:1203:ARG:HH21	1.60	0.65
18:C0:1644:MET:SD	18:C0:1647:GLN:NE2	2.68	0.65
18:C3:1205:GLN:HA	18:C3:1208:LEU:HG	1.76	0.65
20:E3:396:GLU:O	24:VN:338:LYS:NZ	2.27	0.65
19:J1:79:VAL:HG13	19:J1:84:ILE:HD12	1.78	0.65
25:NG:314:SER:HB3	25:NG:368:ILE:HB	1.78	0.65
25:PM:236:ILE:HG23	25:PM:237:THR:HG23	1.77	0.65
24:QJ:121:ARG:HH12	24:QJ:124:LYS:HE2	1.61	0.65
25:QK:213:ARG:NH2	25:QK:297:LYS:O	2.29	0.65
25:VE:122:LYS:NZ	25:WE:291:GLN:OE1	2.24	0.65
25:VM:7:ILE:HB	25:VM:135:VAL:HG12	1.77	0.65
39:X1:106:ARG:HE	39:X1:131:ARG:HB2	1.61	0.65
40:Y0:445:SER:HA	40:Y0:448:ASN:HB2	1.77	0.65
24:ZB:298:PRO:HG3	24:ZB:308:ARG:HH12	1.61	0.65
20:E3:339:ALA:HB1	23:N0:71:GLN:HE22	1.62	0.65
24:OL:316:CYS:HA	24:OL:352:LYS:HB3	1.78	0.65
24:PF:71:GLU:HB3	24:PF:98:ASP:HB3	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:PF:222:PRO:O	25:PG:324:LYS:NZ	2.30	0.65
24:PF:271:SER:HB2	24:PF:377:MET:HB3	1.77	0.65
24:PH:240:ALA:HA	24:PH:243:ARG:HE	1.61	0.65
25:TK:16:ILE:HD12	25:TK:229:ILE:HG21	1.78	0.65
25:UM:48:ASN:O	25:UM:62:ARG:NH1	2.30	0.65
24:WN:258:ASN:HD21	24:WN:352:LYS:HD3	1.61	0.65
25:NE:7:ILE:HB	25:NE:135:VAL:HG12	1.77	0.65
25:PI:309:ARG:NH2	25:PI:425:TYR:O	2.30	0.65
25:TI:178:THR:HG22	24:TJ:352:LYS:HZ3	1.61	0.65
25:TO:131:GLN:HE22	25:TO:250:LEU:HB2	1.62	0.65
25:VO:152:ILE:HD12	25:VO:164:MET:HE1	1.79	0.65
25:ZK:248:ALA:HA	25:ZK:252:LYS:HG3	1.77	0.65
21:F1:178:ARG:NH1	21:F1:179:GLU:OE2	2.29	0.65
19:L3:448:ARG:HA	19:L3:451:PHE:HD2	1.61	0.65
22:M1:928:ARG:NH2	28:Q1:724:GLU:OE2	2.29	0.65
28:Q1:3116:ARG:HD3	28:Q1:3131:ALA:HB3	1.79	0.65
24:UF:222:PRO:HG2	25:UG:324:LYS:HE2	1.79	0.65
40:Y7:361:GLY:HA3	40:Y7:365:LEU:HD23	1.77	0.65
24:YB:407:TRP:HE1	25:YC:258:ILE:HB	1.61	0.65
41:Z3:226:LYS:O	41:Z3:423:ASN:ND2	2.29	0.65
25:ZM:2:ARG:HD2	25:ZM:240:LEU:HD22	1.78	0.65
19:G3:264:ASP:HB3	19:G3:267:VAL:HG12	1.79	0.65
24:NF:31:GLN:HE22	24:NF:37:PRO:HG3	1.62	0.65
24:NH:71:GLU:HB2	24:NH:98:ASP:HB3	1.78	0.65
25:PM:221:THR:HG23	25:PM:223:GLY:H	1.62	0.65
25:RG:397:TRP:HE1	24:RH:260:VAL:HG23	1.61	0.65
32:T2:577:ALA:HB3	32:T2:580:ASP:HB2	1.76	0.65
24:TJ:269:LEU:HD22	24:TJ:303:VAL:HG11	1.78	0.65
24:UD:104:ALA:HB2	24:UD:413:MET:HE2	1.78	0.65
25:XE:268:VAL:HG12	25:XE:368:ILE:HA	1.77	0.65
40:Y0:188:PRO:HD2	40:Y0:454:LEU:HD21	1.78	0.65
19:G2:142:LYS:HG3	19:G2:183:LEU:HD11	1.79	0.65
19:H7:138:ASP:HB3	19:H7:141:VAL:HG12	1.79	0.65
19:K0:251:GLU:O	19:K0:255:LYS:NZ	2.29	0.65
19:L0:432:MET:SD	19:L0:453:HIS:NE2	2.70	0.65
23:N1:43:LEU:HB3	23:N1:87:LYS:HE2	1.77	0.65
26:O0:738:ASN:O	26:O0:842:TYR:HA	1.97	0.65
24:OP:56:THR:HB	24:OP:60:LYS:HB3	1.79	0.65
24:PJ:88:HIS:HE1	24:QJ:284:GLU:HG2	1.61	0.65
24:SL:175:PRO:HB3	24:SL:390:ARG:HD2	1.77	0.65
24:UF:203:MET:HG3	24:UF:303:VAL:HG21	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:C0:564:GLU:HG3	18:C0:1446:ARG:HH12	1.62	0.65
19:J1:193:ASP:OD1	19:J1:196:LYS:NZ	2.26	0.65
19:K3:361:GLY:HA3	19:K3:400:CYS:HB3	1.79	0.65
25:QM:12:CYS:SG	25:QM:138:SER:OG	2.55	0.65
24:SF:73:THR:HA	25:SG:46:ARG:HH22	1.62	0.65
24:UL:105:ARG:HH11	24:UL:110:ILE:HG13	1.61	0.65
25:WG:7:ILE:HG22	25:WG:64:ILE:HB	1.78	0.65
40:Y5:32:LEU:HA	40:Y5:35:MET:HB2	1.79	0.65
25:YE:7:ILE:HB	25:YE:135:VAL:HG12	1.77	0.65
24:YL:97:GLU:OE1	24:YL:105:ARG:NH2	2.30	0.65
41:Z2:407:LEU:HB2	41:Z2:420:ILE:HB	1.79	0.65
18:C2:386:GLN:HG2	18:C2:387:ARG:HE	1.61	0.65
19:D4:92:LEU:HD11	19:D4:107:LEU:HD11	1.77	0.65
20:E3:425:GLY:HA2	20:E3:429:LYS:HB3	1.78	0.65
19:G5:268:LYS:HB3	19:G5:301:TYR:HE1	1.62	0.65
19:J3:185:ARG:HH21	19:J3:224:LYS:HB2	1.62	0.65
19:K3:225:LEU:HD12	19:K3:228:GLN:HE21	1.61	0.65
24:OL:206:ASN:ND2	44:OL:501:GTP:HN22	1.94	0.65
24:OP:101:ASN:ND2	24:OP:142:GLY:O	2.30	0.65
25:RC:313:ALA:HB3	25:RC:349:VAL:HG22	1.79	0.65
25:UE:2:ARG:HD2	25:UE:240:LEU:HD22	1.78	0.65
24:VB:259:LEU:HD21	24:VB:316:CYS:HB2	1.78	0.65
24:YF:305:CYS:HB3	24:YF:387:ILE:HD11	1.79	0.65
24:ZL:238:LEU:HA	24:ZL:318:MET:HG3	1.78	0.65
24:ZL:259:LEU:HD23	24:ZL:268:MET:HG2	1.79	0.65
24:ZP:272:TYR:HB3	24:ZP:275:ILE:HD11	1.79	0.65
18:C3:1623:GLU:O	18:C3:1627:HIS:HB3	1.97	0.64
19:H0:52:ASP:O	19:H0:58:GLN:NE2	2.29	0.64
19:K3:168:ALA:O	19:K3:172:LEU:HB2	1.96	0.64
24:ON:273:ALA:HB3	24:ON:375:VAL:H	1.62	0.64
28:Q0:43:HIS:O	28:Q0:47:GLN:NE2	2.30	0.64
25:QI:221:THR:HG22	25:QI:223:GLY:H	1.60	0.64
30:S0:107:MET:SD	25:WM:276:ARG:NH1	2.70	0.64
24:SJ:259:LEU:HD11	24:SJ:316:CYS:HB2	1.79	0.64
24:TJ:259:LEU:HD11	24:TJ:316:CYS:HB2	1.78	0.64
44:TL:501:GTP:O3G	25:TM:252:LYS:NZ	2.28	0.64
25:UC:103:LYS:HG2	25:UC:401:GLU:HG3	1.79	0.64
25:UC:218:THR:O	24:UD:326:LYS:NZ	2.30	0.64
24:UL:271:SER:HB2	24:UL:377:MET:HB3	1.79	0.64
24:WL:127:ASP:OD2	24:XL:293:ASN:ND2	2.30	0.64
24:XH:319:TYR:HB3	24:XH:323:VAL:HG21	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:B2:334:PRO:HD2	24:RF:422:ARG:HH22	1.62	0.64
18:C0:490:THR:HG23	18:C0:492:ASN:H	1.61	0.64
19:D5:4:ARG:NH1	24:VF:423:GLU:OE1	2.30	0.64
19:H5:324:SER:HB3	19:H5:327:LEU:HG	1.78	0.64
24:NN:282:TYR:HB3	24:ZN:60:LYS:HZ2	1.60	0.64
26:O1:121:GLN:OE1	26:O1:125:LYS:NZ	2.29	0.64
25:PM:170:VAL:HG11	25:PM:201:VAL:HG13	1.78	0.64
24:PN:206:ASN:HD21	44:PN:501:GTP:HN22	1.43	0.64
24:TB:222:PRO:HA	24:TB:226:ASN:HD22	1.61	0.64
24:UD:271:SER:HB2	24:UD:377:MET:HB3	1.78	0.64
25:UO:237:THR:HG22	25:UO:250:LEU:HD21	1.78	0.64
24:VD:175:PRO:HB3	24:VD:390:ARG:HD2	1.80	0.64
40:Y3:286:MET:HB3	40:Y3:336:ILE:HA	1.78	0.64
40:Y6:225:ARG:NH2	40:Y7:99:SER:O	2.29	0.64
25:ZG:33:THR:O	25:ZG:58:ARG:NH1	2.27	0.64
2:1B:1248:ALA:HA	43:1B:2602:ANP:HNB1	1.63	0.64
19:J0:193:ASP:HA	19:J0:196:LYS:HD3	1.80	0.64
24:PF:338:LYS:HZ2	24:PF:340:THR:H	1.44	0.64
24:QF:213:CYS:HA	24:QF:217:LEU:HD23	1.80	0.64
24:QN:414:GLU:HG2	24:QN:416:GLY:H	1.63	0.64
25:TE:248:ALA:HA	25:TE:252:LYS:HG3	1.78	0.64
25:UM:375:GLN:HB2	25:UM:419:VAL:HG23	1.79	0.64
24:XF:100:ALA:HA	25:XG:252:LYS:HE2	1.79	0.64
24:XN:272:TYR:HB3	24:XN:275:ILE:HD11	1.78	0.64
25:XO:113:ILE:HG12	25:XO:150:LEU:HD22	1.79	0.64
25:YK:11:GLN:HE22	24:YL:249:ASN:H	1.45	0.64
16:A3:98:LEU:HD11	19:G4:7:LEU:HD13	1.79	0.64
18:C3:595:ARG:HH12	18:C3:821:LEU:HA	1.63	0.64
18:C3:1614:LEU:HD11	18:C3:1913:ARG:HH21	1.62	0.64
19:K1:273:THR:HG22	19:K1:276:ARG:HH21	1.61	0.64
19:K2:114:SER:HB2	19:K2:117:LEU:HD23	1.78	0.64
25:NE:178:THR:OG1	24:NF:258:ASN:ND2	2.31	0.64
25:PM:48:ASN:O	25:PM:62:ARG:NH2	2.30	0.64
24:QL:264:ARG:NH1	24:QL:431:ASP:OD1	2.30	0.64
25:RO:215:LEU:HB3	25:RO:217:LEU:HD23	1.77	0.64
32:T2:538:LYS:O	24:YD:164:LYS:NZ	2.27	0.64
24:UP:88:HIS:HE1	24:VP:284:GLU:HG2	1.62	0.64
25:YO:248:ALA:HA	25:YO:252:LYS:HD2	1.80	0.64
2:1C:2495:LYS:NZ	18:C2:1163:SER:OG	2.29	0.64
2:1D:2202:SER:OG	18:C3:1749:GLN:NE2	2.30	0.64
16:A2:151:ASP:OD1	16:A2:154:ARG:NH1	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:F1:317:ASN:O	21:F1:421:ARG:HA	1.96	0.64
19:I1:256:ILE:HG23	19:I1:271:SER:HB2	1.79	0.64
25:OE:224:ASP:HA	25:OE:227:HIS:HD2	1.62	0.64
24:OP:173:PRO:O	24:OP:390:ARG:NH2	2.29	0.64
25:PO:257:LEU:HD11	25:PO:314:SER:HB2	1.80	0.64
25:QI:319:GLY:HA2	25:QI:357:PRO:HG3	1.78	0.64
25:UE:19:LYS:NZ	25:UE:223:GLY:O	2.31	0.64
25:VK:25:SER:HB2	25:VK:30:ILE:HB	1.80	0.64
25:WM:179:VAL:HG13	25:WM:180:VAL:HG13	1.80	0.64
25:XE:138:SER:HA	25:XE:169:VAL:H	1.62	0.64
40:Y4:416:ARG:HE	40:Y4:417:SER:H	1.45	0.64
18:C4:121:LEU:HD13	19:D5:87:GLN:HE21	1.62	0.64
19:H3:54:VAL:HG13	19:H3:57:ILE:HG12	1.79	0.64
19:K1:401:ARG:HA	19:K1:404:LEU:HG	1.79	0.64
22:M0:790:TYR:HB2	28:Q0:1222:ARG:HE	1.62	0.64
25:RE:260:PHE:HB2	25:RE:263:LEU:HD13	1.78	0.64
30:S0:44:LYS:NZ	24:XN:245:ASP:OD2	2.30	0.64
24:SF:104:ALA:HB2	24:SF:413:MET:HG2	1.80	0.64
25:SM:347:ASN:O	25:SM:350:LYS:NZ	2.28	0.64
24:TN:91:GLN:OE1	24:TN:121:ARG:NH2	2.21	0.64
39:X0:106:ARG:O	39:X0:106:ARG:NH1	2.30	0.64
24:YB:180:ALA:HB3	24:YB:183:GLU:HB2	1.79	0.64
16:A0:181:PRO:HA	16:A0:184:ARG:HG2	1.78	0.64
20:E0:396:GLU:HB2	24:VJ:339:ARG:HH12	1.62	0.64
19:J0:114:SER:HB3	19:J0:117:LEU:HD23	1.79	0.64
24:NL:196:GLU:HG2	24:NL:197:HIS:HD2	1.61	0.64
25:NO:179:VAL:HG13	25:NO:180:VAL:HG13	1.80	0.64
25:NO:245:GLN:HA	25:NO:245:GLN:HE21	1.63	0.64
24:QD:161:TYR:HB3	24:QD:164:LYS:HD2	1.80	0.64
25:TG:58:ARG:HH22	25:UG:280:GLN:HB2	1.61	0.64
25:WK:83:GLN:NE2	25:XK:281:TYR:OH	2.26	0.64
40:Y4:209:GLU:HB2	40:Y4:287:ASP:HB3	1.80	0.64
40:Y4:444:ARG:HG2	40:Y5:444:ARG:HG2	1.79	0.64
25:YO:192:LEU:HD22	25:YO:196:ALA:HB2	1.80	0.64
18:C1:208:GLN:HA	18:C1:211:LYS:HZ3	1.62	0.64
19:D4:89:VAL:HA	19:D4:92:LEU:HD12	1.80	0.64
19:G4:260:LEU:HD22	19:G4:297:ALA:HB1	1.80	0.64
19:H2:176:VAL:O	19:H2:184:LYS:NZ	2.23	0.64
19:L3:429:VAL:HG11	19:L3:478:ILE:HG23	1.78	0.64
25:NE:198:GLU:HA	25:NE:264:HIS:HB2	1.79	0.64
25:OI:311:LEU:HD12	25:OI:342:VAL:HG21	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:OL:70:LEU:HA	24:OL:95:GLY:HA3	1.80	0.64
24:PP:178:SER:OG	25:PQ:347:ASN:ND2	2.31	0.64
28:Q0:3120:PRO:HB2	28:Q0:3127:LEU:HB3	1.79	0.64
25:QG:314:SER:HB3	25:QG:368:ILE:HB	1.80	0.64
24:RD:325:PRO:O	24:RD:329:ASN:ND2	2.31	0.64
30:S0:46:ARG:HH22	25:XM:75:SER:HA	1.63	0.64
25:VK:256:ASN:HD22	25:VK:350:LYS:HD3	1.61	0.64
25:XE:113:ILE:HG13	25:XE:150:LEU:HD22	1.79	0.64
25:ZM:7:ILE:HB	25:ZM:135:VAL:HG12	1.79	0.64
2:1B:1352:HIS:HB2	2:1B:1418:LEU:HD21	1.80	0.64
16:A3:137:PRO:HG2	25:YC:306:ARG:HE	1.63	0.64
19:D3:335:LYS:HE2	19:D3:338:PRO:HG2	1.80	0.64
21:F1:88:GLN:O	21:F1:111:LEU:HA	1.98	0.64
19:G0:338:PRO:HA	19:G0:341:VAL:HG22	1.78	0.64
19:L3:95:GLN:HG2	19:L3:96:ASN:H	1.63	0.64
25:OG:21:TRP:HA	25:OG:24:VAL:HG12	1.79	0.64
25:QO:202:LEU:HD13	25:QO:229:ILE:HD12	1.80	0.64
24:RH:276:ILE:HD12	24:RH:281:ALA:HA	1.80	0.64
25:WI:129:CYS:HB3	25:WI:162:ARG:HH22	1.62	0.64
24:XJ:272:TYR:HB3	24:XJ:275:ILE:HD11	1.80	0.64
24:XL:133:GLN:HE21	24:XL:252:ILE:H	1.46	0.64
40:Y2:188:PRO:HD2	40:Y2:454:LEU:HD21	1.80	0.64
41:Z1:310:GLU:HA	41:Z1:313:MET:HG3	1.80	0.64
2:1B:2026:VAL:HA	2:1B:2095:TYR:O	1.98	0.64
17:B1:650:LYS:HD3	17:B1:651:ARG:HH21	1.63	0.64
18:C1:622:LEU:HB2	18:C1:767:VAL:HG22	1.79	0.64
18:C2:101:LEU:O	18:C2:105:GLN:NE2	2.32	0.64
21:F1:100:GLU:HA	21:F1:165:ARG:HH12	1.63	0.64
22:M0:831:VAL:H	28:Q0:221:GLN:HE22	1.46	0.64
25:OK:330:MET:HB3	25:OK:349:VAL:HG21	1.79	0.64
25:QI:282:ARG:NH2	25:QI:292:GLN:OE1	2.30	0.64
25:RI:8:GLN:HB2	25:RI:65:LEU:HA	1.80	0.64
24:TH:259:LEU:HD11	24:TH:316:CYS:HB2	1.80	0.64
25:WA:198:GLU:HA	25:WA:264:HIS:HB2	1.80	0.64
40:Y4:453:GLN:HA	40:Y4:456:ARG:HD2	1.79	0.64
17:B2:443:ARG:HA	17:B2:446:GLU:HG3	1.80	0.63
19:G0:379:CYS:O	19:G0:383:LEU:HB2	1.98	0.63
19:K0:17:ARG:NH1	19:K0:52:ASP:OD2	2.31	0.63
24:RL:259:LEU:HD21	24:RL:316:CYS:HB2	1.80	0.63
25:SG:198:GLU:HA	25:SG:264:HIS:HB2	1.80	0.63
25:SO:372:THR:HG21	25:SO:426:GLN:HB2	1.78	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:U1:80:CYS:SG	33:U1:101:GLN:NE2	2.71	0.63
24:XH:387:ILE:HG13	24:XH:390:ARG:HE	1.63	0.63
24:YN:97:GLU:OE1	24:YN:105:ARG:NH2	2.30	0.63
41:Z0:533:ALA:O	41:Z0:537:GLN:NE2	2.31	0.63
24:ZD:264:ARG:NH1	24:ZD:431:ASP:OD2	2.32	0.63
18:C2:427:ARG:HB2	39:X2:278:LEU:HD22	1.80	0.63
19:H2:47:ARG:HD2	19:H2:82:ASN:HD21	1.63	0.63
22:M1:66:ARG:HB3	22:M1:101:THR:HG22	1.79	0.63
25:NO:61:PRO:HD3	25:NO:84:ILE:HG22	1.79	0.63
26:O2:130:ALA:HA	26:O2:189:LYS:HE3	1.80	0.63
25:OQ:7:ILE:HB	25:OQ:135:VAL:HG12	1.79	0.63
25:RO:405:GLU:HA	25:RO:408:PHE:HD2	1.62	0.63
30:S3:75:ARG:HH22	24:WB:358:GLN:HG3	1.62	0.63
24:SF:272:TYR:HB3	24:SF:275:ILE:HD11	1.79	0.63
25:SM:102:ALA:HB2	25:SM:403:MET:HE2	1.78	0.63
24:UB:271:SER:HB2	24:UB:377:MET:HB3	1.80	0.63
24:VJ:238:LEU:HD22	24:VJ:378:ILE:HD11	1.78	0.63
25:XE:375:GLN:HB2	25:XE:419:VAL:HG23	1.80	0.63
24:YD:105:ARG:HG3	24:YD:411:GLU:HG3	1.80	0.63
24:ZB:207:GLU:HA	24:ZB:210:TYR:HB2	1.80	0.63
25:ZC:314:SER:HA	25:ZC:350:LYS:HB3	1.80	0.63
24:ZJ:273:ALA:HB3	24:ZJ:375:VAL:H	1.64	0.63
2:1A:2058:ARG:HH12	2:1A:2096:ASP:HB2	1.62	0.63
2:1B:2496:ARG:HE	18:C1:1308:SER:HB3	1.64	0.63
18:C2:597:ALA:HB3	18:C2:824:VAL:HG22	1.80	0.63
19:D2:261:LYS:NZ	19:D2:300:ASP:OD2	2.32	0.63
20:E0:423:PRO:O	20:E0:427:TYR:HB2	1.97	0.63
24:NH:67:PHE:HB2	24:NH:92:LEU:HD22	1.81	0.63
25:OG:198:GLU:HA	25:OG:264:HIS:HB2	1.81	0.63
25:OO:248:ALA:HA	25:OO:252:LYS:HG2	1.80	0.63
29:R0:160:ARG:HD2	29:R0:164:ARG:HH22	1.63	0.63
32:T1:376:PRO:HD2	32:T1:394:LEU:HG	1.80	0.63
24:TJ:169:PHE:HZ	24:TJ:238:LEU:HD21	1.61	0.63
39:X0:162:PHE:HB3	39:X0:165:LEU:HD23	1.80	0.63
24:XN:271:SER:OG	24:XN:301:MET:SD	2.56	0.63
25:YI:47:ILE:HG22	25:YI:51:PHE:HB2	1.80	0.63
24:ZJ:226:ASN:ND2	24:ZJ:367:ASP:OD2	2.31	0.63
24:ZJ:324:VAL:HG12	24:ZJ:326:LYS:H	1.64	0.63
2:1A:1328:THR:H	2:1A:1331:GLN:HE21	1.46	0.63
19:G0:138:ASP:HB3	19:G0:141:VAL:HG12	1.78	0.63
19:H3:138:ASP:HB3	19:H3:141:VAL:HG22	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:J0:47:ARG:NH1	19:J0:82:ASN:O	2.31	0.63
24:NJ:127:ASP:OD2	24:OL:293:ASN:ND2	2.32	0.63
25:OE:166:THR:HG21	25:OE:192:LEU:HD11	1.80	0.63
25:OM:345:ILE:O	25:OM:348:ASN:ND2	2.31	0.63
28:Q0:867:GLN:OE1	28:Q0:873:ARG:NH2	2.28	0.63
28:Q1:766:ALA:HB1	28:Q1:1024:PRO:HD3	1.79	0.63
24:RL:66:ILE:HG22	24:RL:91:GLN:HB3	1.79	0.63
25:RM:8:GLN:NE2	25:RM:136:CYS:SG	2.72	0.63
25:SO:16:ILE:HD11	25:SO:229:ILE:HB	1.79	0.63
39:X1:106:ARG:O	39:X1:106:ARG:NH1	2.30	0.63
41:Z1:50:ARG:HH12	41:Z1:124:MET:HG3	1.64	0.63
18:C1:1358:VAL:HG13	18:C1:1386:LYS:HE3	1.81	0.63
18:C2:784:LEU:HD22	18:C2:820:GLY:HA2	1.81	0.63
18:C3:632:MET:O	18:C3:636:GLN:NE2	2.32	0.63
19:D6:257:LEU:HD11	19:D6:294:GLY:HA2	1.80	0.63
19:D7:277:GLU:OE1	19:D7:280:LYS:NZ	2.27	0.63
19:H4:350:ASP:HA	19:H4:353:LYS:HD2	1.81	0.63
25:OQ:330:MET:HB3	25:OQ:349:VAL:HG11	1.79	0.63
25:PC:171:PRO:O	25:PC:380:ARG:NH2	2.29	0.63
25:QC:113:ILE:HD13	25:QC:150:LEU:HD22	1.79	0.63
25:QQ:284:LEU:HD21	25:QQ:363:MET:HB3	1.81	0.63
24:RF:102:ASN:ND2	24:RF:411:GLU:OE2	2.32	0.63
24:RP:212:ILE:O	24:RP:216:SER:OG	2.16	0.63
24:SF:71:GLU:OE2	25:SG:2:ARG:NH1	2.32	0.63
24:SP:2:ARG:HB2	24:SP:51:THR:HG22	1.80	0.63
33:U1:194:ARG:NH1	33:U1:199:GLN:OE1	2.25	0.63
24:WH:2:ARG:NH2	24:WH:242:LEU:O	2.28	0.63
24:XF:14:ILE:HD11	24:XF:74:VAL:HG13	1.80	0.63
40:Y0:446:GLU:HG2	40:Y0:447:ARG:HD2	1.81	0.63
40:Y3:405:LYS:HE3	40:Y3:411:VAL:HG23	1.79	0.63
21:F3:135:ARG:NH2	21:F3:155:ALA:O	2.32	0.63
19:G4:276:ARG:HH21	19:G4:315:MET:HB3	1.63	0.63
25:NG:273:LEU:O	25:NG:292:GLN:NE2	2.32	0.63
24:NH:76:ASP:HA	24:NH:79:ARG:HB2	1.81	0.63
25:NK:61:PRO:HD3	25:NK:84:ILE:HG22	1.81	0.63
26:O1:116:VAL:HG12	26:O1:203:ALA:HB1	1.80	0.63
25:PC:396:HIS:HA	25:PC:399:THR:HG22	1.80	0.63
25:PE:7:ILE:HB	25:PE:135:VAL:HG12	1.79	0.63
24:PP:9:ILE:HB	24:PP:139:ASN:HB3	1.81	0.63
24:RD:180:ALA:HB3	24:RD:183:GLU:HG3	1.81	0.63
25:SE:164:MET:HB2	25:SE:197:ASP:H	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:UJ:180:ALA:HB3	24:UJ:183:GLU:HB2	1.80	0.63
24:VL:399:TYR:OH	24:VL:415:GLU:OE1	2.16	0.63
25:XO:19:LYS:NZ	25:XO:223:GLY:O	2.32	0.63
24:YF:219:ILE:HG23	24:YF:222:PRO:HG3	1.81	0.63
25:ZC:248:ALA:HA	25:ZC:252:LYS:HG3	1.80	0.63
16:A0:150:ASN:HB3	16:A0:154:ARG:HH12	1.63	0.63
19:G2:310:ARG:HH21	19:G2:343:ALA:HB2	1.63	0.63
19:J2:108:ARG:O	19:J2:112:ARG:HB2	1.99	0.63
24:NB:269:LEU:HB3	24:NB:301:MET:HE1	1.81	0.63
26:O0:339:LEU:HB3	26:O0:343:ARG:HH12	1.64	0.63
24:OD:316:CYS:HA	24:OD:352:LYS:HB3	1.80	0.63
24:ON:53:PHE:HB3	24:ON:61:HIS:HB3	1.80	0.63
25:PE:134:GLN:NE2	25:PE:233:MET:SD	2.72	0.63
25:PI:286:VAL:HG11	25:PI:326:VAL:HA	1.81	0.63
24:QD:155:GLU:OE1	24:QD:197:HIS:NE2	2.32	0.63
25:QI:334:GLN:HE22	25:QI:347:ASN:HA	1.63	0.63
25:QQ:7:ILE:HB	25:QQ:135:VAL:HG12	1.80	0.63
24:RD:102:ASN:ND2	24:RD:411:GLU:OE1	2.31	0.63
24:SH:1:MET:N	24:SH:130:THR:OG1	2.32	0.63
24:SP:64:ARG:HH12	24:SP:129:CYS:HB3	1.64	0.63
25:UI:3:GLU:HG3	25:UI:62:ARG:HH12	1.64	0.63
24:VL:431:ASP:HA	24:VL:434:GLU:HB3	1.80	0.63
24:WD:271:SER:HB2	24:WD:377:MET:HB3	1.81	0.63
24:WF:264:ARG:NH1	24:WF:431:ASP:OD2	2.32	0.63
24:WH:259:LEU:HD23	24:WH:268:MET:HG2	1.80	0.63
40:Y2:358:GLN:HB2	40:Y2:473:ARG:HH22	1.64	0.63
2:1A:1309:ARG:NH1	2:1A:1315:CYS:SG	2.71	0.63
18:C2:1644:MET:SD	18:C2:1647:GLN:NE2	2.71	0.63
18:C3:110:LYS:HG3	19:D2:51:LEU:HD12	1.81	0.63
18:C3:427:ARG:HD2	39:X3:278:LEU:HD22	1.81	0.63
19:D1:350:ASP:HA	19:D1:353:LYS:HD2	1.81	0.63
19:G5:383:LEU:HA	19:G5:386:LEU:HG	1.79	0.63
19:J0:21:VAL:HG11	19:J0:57:ILE:HG23	1.81	0.63
25:NE:191:GLN:OE1	25:NE:195:ASN:ND2	2.32	0.63
24:OJ:71:GLU:HB2	24:OJ:98:ASP:HB3	1.80	0.63
25:OK:375:GLN:HB2	25:OK:419:VAL:HG23	1.81	0.63
24:ON:109:THR:HG23	24:ON:110:ILE:HG12	1.81	0.63
25:SG:2:ARG:HB3	25:SG:131:GLN:HB2	1.81	0.63
25:SK:397:TRP:HE1	24:SL:260:VAL:HB	1.64	0.63
24:UL:212:ILE:O	24:UL:216:SER:HB3	1.97	0.63
24:VH:222:PRO:HD2	25:VI:324:LYS:HD3	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:XA:86:ARG:NH1	24:YB:284:GLU:OE1	2.32	0.63
25:XI:86:ARG:NH1	24:YJ:284:GLU:OE2	2.31	0.63
40:Y0:154:LEU:HD12	40:Y0:392:GLY:HA2	1.81	0.63
25:YG:252:LYS:O	25:YG:256:ASN:ND2	2.32	0.63
25:ZE:33:THR:O	25:ZE:58:ARG:NH1	2.31	0.63
24:ZN:180:ALA:HB3	24:ZN:183:GLU:HG3	1.81	0.63
2:1B:2495:LYS:NZ	18:C1:1163:SER:OG	2.31	0.63
18:C0:1606:GLY:HA2	18:C0:1609:ARG:HD3	1.81	0.63
18:C1:646:ALA:HB1	18:C1:693:GLN:HE21	1.64	0.63
18:C3:226:ASP:HB3	24:VF:402:ARG:HH22	1.64	0.63
18:C4:222:ARG:HD3	18:C4:225:ARG:HH21	1.64	0.63
19:J1:222:ASP:H	19:J1:226:LYS:HZ3	1.47	0.63
24:OD:175:PRO:HB3	24:OD:390:ARG:HD2	1.79	0.63
24:OH:207:GLU:HA	24:OH:210:TYR:HB2	1.80	0.63
25:PE:220:PRO:O	24:PF:326:LYS:NZ	2.32	0.63
25:QC:179:VAL:HG23	24:QD:352:LYS:HB2	1.81	0.63
25:QQ:237:THR:HG23	25:QQ:241:ARG:HH12	1.64	0.63
24:RN:301:MET:HG3	24:RN:307:PRO:HG3	1.81	0.63
25:SI:213:ARG:HE	25:SI:297:LYS:HG2	1.63	0.63
25:SK:7:ILE:HB	25:SK:135:VAL:HG12	1.81	0.63
24:TP:27:GLU:OE1	24:TP:243:ARG:NH2	2.32	0.63
25:VE:54:ALA:HA	25:WE:283:ALA:HB2	1.79	0.63
24:WB:176:GLN:HG2	24:WB:177:VAL:HG23	1.81	0.63
24:WJ:6:SER:O	24:WJ:65:CYS:HA	1.99	0.63
39:X0:493:TRP:O	39:X0:497:HIS:ND1	2.32	0.63
24:ZB:271:SER:HB2	24:ZB:377:MET:HB3	1.80	0.63
24:ZD:175:PRO:HB3	24:ZD:390:ARG:HE	1.64	0.63
24:ZF:213:CYS:HA	24:ZF:217:LEU:HB2	1.81	0.63
25:ZK:236:ILE:HD12	25:ZK:368:ILE:HD11	1.81	0.63
4:2A:316:ARG:NH1	24:OP:400:ALA:O	2.32	0.62
16:A1:31:ARG:HH12	25:XM:262:ARG:HD2	1.63	0.62
19:D6:179:PRO:HA	19:D6:184:LYS:HE2	1.81	0.62
20:E1:366:LYS:NZ	25:VG:290:THR:O	2.29	0.62
19:G1:203:GLN:HA	19:G1:206:VAL:HG22	1.79	0.62
19:K1:185:ARG:HG2	19:K1:224:LYS:HD2	1.81	0.62
25:OE:63:ALA:O	25:OE:89:ASN:ND2	2.32	0.62
25:OM:99:ASN:HA	25:OM:142:GLY:HA3	1.80	0.62
24:RF:109:THR:HG21	24:RF:411:GLU:HB2	1.81	0.62
24:RH:76:ASP:OD2	25:RI:46:ARG:NH2	2.32	0.62
24:TL:127:ASP:OD2	24:UL:293:ASN:ND2	2.32	0.62
24:UJ:195:LEU:HD13	24:UJ:264:ARG:HE	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:WG:48:ASN:O	25:WG:62:ARG:NH2	2.31	0.62
24:WJ:203:MET:HB3	24:WJ:303:VAL:HG21	1.81	0.62
39:X2:157:ARG:NH1	39:X2:158:ASP:O	2.31	0.62
2:1B:2012:VAL:HB	2:1B:2112:VAL:HB	1.81	0.62
4:2A:242:ASN:ND2	25:OQ:413:SER:OG	2.32	0.62
18:C0:1778:ASP:HB3	18:C0:1784:GLY:HA3	1.80	0.62
19:D1:218:VAL:O	19:D1:226:LYS:NZ	2.29	0.62
19:D3:233:LEU:HA	19:D3:236:ILE:HG12	1.81	0.62
21:F1:175:CYS:SG	21:F1:180:LYS:NZ	2.71	0.62
19:K1:115:PRO:HA	19:K1:155:HIS:HD2	1.64	0.62
22:M1:752:GLU:OE2	28:Q1:2496:GLN:NE2	2.33	0.62
24:NH:88:HIS:HB3	24:NH:91:GLN:HB2	1.79	0.62
25:NK:198:GLU:HA	25:NK:264:HIS:HB2	1.79	0.62
24:OD:90:GLU:OE2	24:OD:121:ARG:NH1	2.30	0.62
25:OK:113:ILE:HG13	25:OK:150:LEU:HD23	1.81	0.62
25:OK:253:LEU:HD21	25:OK:316:LEU:HD21	1.81	0.62
25:PQ:58:ARG:NH1	25:QQ:280:GLN:OE1	2.33	0.62
25:QC:7:ILE:HB	25:QC:135:VAL:HG12	1.81	0.62
25:RG:178:THR:HG22	24:RH:352:LYS:HE2	1.80	0.62
24:SF:97:GLU:OE1	24:SF:105:ARG:NH2	2.32	0.62
24:SP:298:PRO:HA	24:SP:301:MET:HG2	1.80	0.62
25:TK:252:LYS:O	25:TK:256:ASN:ND2	2.32	0.62
24:UP:276:ILE:HG23	24:UP:280:LYS:HB3	1.80	0.62
25:VM:173:PRO:HD2	25:VM:205:GLU:HG3	1.81	0.62
24:XH:241:SER:OG	24:XH:250:VAL:O	2.17	0.62
2:1A:2070:ARG:NH1	2:1A:2071:PRO:O	2.32	0.62
19:D0:95:GLN:O	19:D0:100:LYS:NZ	2.31	0.62
19:D5:133:CYS:SG	19:D5:145:SER:OG	2.57	0.62
21:F1:95:THR:HA	21:F1:186:LEU:O	1.98	0.62
19:G3:277:GLU:HA	19:G3:280:LYS:HG2	1.82	0.62
25:NK:139:LEU:HD12	25:NK:170:VAL:HG12	1.80	0.62
25:OE:281:TYR:HB3	25:OE:282:ARG:HH21	1.63	0.62
24:OJ:178:SER:OG	25:OK:347:ASN:ND2	2.33	0.62
25:QG:3:GLU:HB3	25:QG:130:LEU:HA	1.81	0.62
25:SI:248:ALA:HA	25:SI:252:LYS:HG2	1.80	0.62
25:TO:198:GLU:HA	25:TO:264:HIS:HB2	1.80	0.62
25:WC:164:MET:HB2	25:WC:197:ASP:H	1.63	0.62
25:WC:198:GLU:HA	25:WC:264:HIS:HB2	1.81	0.62
24:WH:102:ASN:HB3	24:WH:105:ARG:HB2	1.81	0.62
24:WL:132:LEU:HD22	24:WL:164:LYS:HD3	1.81	0.62
25:YO:7:ILE:HB	25:YO:135:VAL:HG12	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:ZN:259:LEU:HD23	24:ZN:268:MET:HG2	1.81	0.62
2:1C:2070:ARG:NH1	2:1C:2071:PRO:O	2.32	0.62
17:B1:557:ARG:HH22	26:O1:399:GLU:HB3	1.65	0.62
19:H3:92:LEU:HD21	19:H3:103:ALA:HB3	1.81	0.62
19:J1:108:ARG:O	19:J1:112:ARG:HB2	1.98	0.62
19:K0:290:VAL:HG21	19:K0:327:LEU:HD22	1.81	0.62
19:L2:450:GLN:HA	19:L2:453:HIS:HD2	1.64	0.62
24:NH:209:ILE:HG23	24:NH:230:LEU:HD11	1.80	0.62
24:NJ:101:ASN:OD1	25:NK:252:LYS:NZ	2.31	0.62
25:NK:163:MET:HG2	25:NK:251:ARG:HH21	1.64	0.62
44:PJ:501:GTP:O2G	25:PK:252:LYS:NZ	2.32	0.62
24:QH:259:LEU:HD21	24:QH:316:CYS:HB2	1.81	0.62
24:RH:203:MET:HB3	24:RH:303:VAL:HG21	1.82	0.62
24:SD:259:LEU:HD21	24:SD:316:CYS:HB2	1.80	0.62
25:TC:271:THR:HG21	25:TC:293:MET:HE2	1.80	0.62
24:VN:174:SER:HB3	24:VN:177:VAL:HB	1.81	0.62
24:WH:27:GLU:OE1	24:WH:243:ARG:NH1	2.32	0.62
25:XK:49:VAL:HG21	25:XK:241:ARG:HG2	1.81	0.62
24:YJ:90:GLU:O	24:YJ:121:ARG:NH1	2.32	0.62
41:Z2:156:ASP:HB2	41:Z2:462:LEU:HD11	1.81	0.62
24:ZD:7:ILE:HG22	24:ZD:66:ILE:HB	1.81	0.62
25:ZI:27:GLU:OE2	25:ZI:241:ARG:NH1	2.32	0.62
19:D2:399:LYS:HD3	19:D2:402:ARG:HH21	1.64	0.62
20:E1:381:THR:HG22	24:VF:215:ARG:HH22	1.64	0.62
21:F3:117:VAL:HG12	25:VE:262:ARG:HD2	1.81	0.62
19:G3:65:LEU:HD11	19:G3:84:ILE:HD13	1.81	0.62
19:H3:21:VAL:HG13	19:H3:61:ALA:HB2	1.81	0.62
25:NI:257:LEU:HD11	25:NI:314:SER:HB2	1.82	0.62
24:PN:251:ASP:HB3	24:PN:254:GLU:H	1.64	0.62
25:QK:99:ASN:ND2	24:QL:254:GLU:OE1	2.32	0.62
25:SE:7:ILE:HB	25:SE:135:VAL:HG12	1.81	0.62
24:SF:269:LEU:HD22	24:SF:303:VAL:HG11	1.82	0.62
25:SO:190:HIS:HE1	25:SO:410:GLU:HG3	1.65	0.62
24:TH:247:ALA:HB3	24:TH:355:ILE:HD11	1.81	0.62
25:TI:237:THR:HB	25:TI:240:LEU:HD12	1.80	0.62
24:TJ:264:ARG:NH1	24:TJ:431:ASP:OD2	2.33	0.62
25:UC:17:GLY:HA2	25:UC:20:PHE:HB3	1.81	0.62
24:WN:222:PRO:O	25:WO:324:LYS:NZ	2.32	0.62
24:YH:237:SER:HA	24:YH:320:ARG:HH11	1.63	0.62
24:ZN:188:VAL:HG23	24:ZN:425:LEU:HD12	1.81	0.62
2:1A:1807:GLU:OE2	2:1A:1811:ARG:NH1	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1A:2163:GLN:HB2	2:1A:2244:ASP:HB2	1.80	0.62
2:1B:1309:ARG:NH1	2:1B:1312:GLU:OE2	2.33	0.62
2:1C:1334:GLU:HG2	2:1C:1337:ARG:HH21	1.62	0.62
18:C1:433:ARG:NH1	18:C1:437:GLU:OE1	2.33	0.62
19:G2:37:LEU:HD23	19:G2:68:LEU:HD21	1.81	0.62
25:NG:176:SER:OG	25:NG:178:THR:O	2.16	0.62
25:OE:222:PHE:HA	25:OE:225:LEU:HD23	1.81	0.62
25:PK:139:LEU:HD12	25:PK:170:VAL:HG12	1.80	0.62
25:PM:380:ARG:HA	25:PM:383:GLU:HG3	1.81	0.62
25:QO:167:PHE:HA	25:QO:200:MET:HB2	1.81	0.62
24:TB:113:GLU:HG2	24:TB:114:ILE:HG13	1.80	0.62
24:TN:102:ASN:HB3	24:TN:105:ARG:HB2	1.82	0.62
25:VG:69:GLU:HG2	25:VG:71:GLY:H	1.64	0.62
25:VO:113:ILE:HG13	25:VO:150:LEU:HD23	1.80	0.62
24:WB:177:VAL:HB	24:WB:207:GLU:HG2	1.82	0.62
24:XL:305:CYS:HB3	24:XL:387:ILE:HD11	1.80	0.62
25:XM:311:LEU:HD23	25:XM:342:VAL:HG21	1.81	0.62
24:YN:155:GLU:OE1	24:YN:197:HIS:NE2	2.32	0.62
2:1A:1668:GLU:HG3	2:1A:1673:LEU:HG	1.81	0.62
18:C2:57:ILE:HD11	18:C2:160:ALA:HB3	1.82	0.62
19:D4:380:LEU:HA	19:D4:383:LEU:HD12	1.81	0.62
19:G3:179:PRO:O	32:T1:378:ASN:ND2	2.33	0.62
19:K3:77:GLU:O	19:K3:81:GLN:NE2	2.32	0.62
25:OM:325:GLU:HA	25:OM:328:GLU:HG3	1.82	0.62
28:Q1:8:ILE:O	28:Q1:12:HIS:ND1	2.32	0.62
24:QH:178:SER:O	25:QI:347:ASN:ND2	2.33	0.62
24:RL:108:TYR:O	24:RL:112:LYS:NZ	2.30	0.62
25:SG:318:ARG:HE	25:SG:358:PRO:HD3	1.64	0.62
25:SI:49:VAL:HG21	25:SI:241:ARG:HG2	1.81	0.62
25:SK:205:GLU:HA	25:SK:208:TYR:HB2	1.81	0.62
25:SM:392:LYS:HG3	25:SM:395:LEU:HD13	1.81	0.62
24:TF:397:LEU:O	24:TF:401:LYS:NZ	2.31	0.62
25:WA:322:SER:HB2	25:WA:325:GLU:HG3	1.82	0.62
24:WJ:318:MET:O	24:WJ:375:VAL:HA	2.00	0.62
24:XD:271:SER:OG	24:XD:301:MET:SD	2.58	0.62
40:Y4:445:SER:HA	40:Y4:448:ASN:HB2	1.82	0.62
41:Z1:213:VAL:HG11	41:Z1:323:VAL:HA	1.82	0.62
18:C3:122:GLY:O	19:D3:47:ARG:NH1	2.32	0.62
18:C3:1623:GLU:O	18:C3:1627:HIS:CB	2.48	0.62
18:C3:1778:ASP:HB3	18:C3:1784:GLY:HA3	1.82	0.62
19:H0:231:CYS:O	19:H0:235:GLN:NE2	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:I0:8:GLN:HE21	19:I0:12:ARG:HH21	1.45	0.62
19:K3:196:LYS:HA	19:K3:235:GLN:HG2	1.82	0.62
19:L3:397:LYS:HG3	19:L3:401:ARG:HH22	1.64	0.62
24:OP:316:CYS:HA	24:OP:352:LYS:HB3	1.80	0.62
28:Q0:164:GLU:HG2	28:Q0:165:ARG:HG3	1.82	0.62
24:QN:73:THR:HG23	25:QO:2:ARG:HH22	1.65	0.62
24:QN:202:VAL:HA	24:QN:268:MET:HB2	1.82	0.62
25:QO:318:ARG:HD2	25:QO:358:PRO:HD3	1.82	0.62
29:R0:175:VAL:HG12	29:R0:191:ILE:HG22	1.82	0.62
25:RK:234:SER:OG	25:RK:241:ARG:NH2	2.33	0.62
25:TC:318:ARG:HE	25:TC:358:PRO:HD3	1.63	0.62
24:TD:90:GLU:OE1	24:UD:280:LYS:NZ	2.25	0.62
24:UJ:2:ARG:NH2	24:UJ:251:ASP:OD1	2.32	0.62
25:UK:397:TRP:HE1	24:UL:260:VAL:HB	1.65	0.62
24:WD:318:MET:HB2	24:WD:376:CYS:HB3	1.82	0.62
40:Y4:15:LYS:HD3	40:Y5:32:LEU:HD13	1.82	0.62
41:Z0:407:LEU:HB2	41:Z0:420:ILE:HB	1.80	0.62
17:B1:304:ARG:HH12	24:QN:423:GLU:HG3	1.65	0.62
17:B1:686:GLN:HG2	33:U0:29:HIS:HD2	1.65	0.62
17:B2:455:ARG:NH2	25:RC:107:THR:O	2.32	0.62
18:C1:438:THR:HG22	39:X1:211:ARG:HH21	1.65	0.62
18:C1:1623:GLU:O	18:C1:1627:HIS:HB3	2.00	0.62
18:C1:1902:MET:HA	18:C1:1911:VAL:HG21	1.82	0.62
18:C2:146:SER:HG	18:C2:150:ARG:HH12	1.48	0.62
19:G0:387:GLU:HG2	19:G0:401:ARG:HH21	1.65	0.62
19:H6:44:ALA:HA	19:H6:47:ARG:HG2	1.82	0.62
25:OI:99:ASN:OD1	25:OI:184:ASN:ND2	2.32	0.62
24:OL:206:ASN:HD21	44:OL:501:GTP:HN22	1.48	0.62
25:RM:292:GLN:OE1	25:RM:298:ASN:ND2	2.33	0.62
25:VG:8:GLN:HE21	25:VG:65:LEU:HD23	1.65	0.62
24:VP:155:GLU:OE1	24:VP:197:HIS:NE2	2.33	0.62
25:WG:49:VAL:HG21	25:WG:241:ARG:HG2	1.82	0.62
24:XL:259:LEU:HD11	24:XL:316:CYS:HB2	1.82	0.62
24:XN:226:ASN:ND2	24:XN:367:ASP:OD2	2.33	0.62
40:Y5:440:GLY:O	40:Y5:451:TYR:OH	2.17	0.62
25:YI:135:VAL:HG11	25:YI:152:ILE:HD11	1.81	0.62
25:YO:156:ARG:HH22	25:YO:197:ASP:HB2	1.64	0.62
14:8C:255:ARG:HH11	19:J1:72:SER:HB2	1.65	0.62
18:C0:543:VAL:HG11	18:C0:1176:LEU:HG	1.82	0.62
18:C0:1925:VAL:HA	18:C0:1928:ARG:HG2	1.82	0.62
19:D3:173:VAL:O	19:D3:177:GLN:NE2	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:K0:248:VAL:HG21	19:K0:285:LEU:HD22	1.80	0.62
26:O2:121:GLN:OE1	26:O2:125:LYS:NZ	2.33	0.62
24:OF:195:LEU:HD11	24:OF:428:LEU:HD13	1.82	0.62
24:ON:269:LEU:HB3	24:ON:301:MET:HE1	1.81	0.62
24:RH:71:GLU:HB2	24:RH:98:ASP:HB3	1.81	0.62
24:RN:209:ILE:HD13	24:RN:231:ILE:HD11	1.82	0.62
25:SC:166:THR:OG1	25:SC:199:CYS:SG	2.58	0.62
24:UD:2:ARG:NH2	24:UD:47:ASP:O	2.31	0.62
24:UJ:268:MET:SD	24:UJ:380:ASN:ND2	2.73	0.62
25:WK:285:THR:HG22	25:WK:287:PRO:HD2	1.81	0.62
25:WO:54:ALA:HA	25:XO:283:ALA:HB2	1.81	0.62
24:XD:124:LYS:HE3	25:YE:291:GLN:HG2	1.80	0.62
40:Y0:18:GLU:HA	40:Y0:21:ASN:HB2	1.82	0.62
40:Y3:173:TYR:HB3	40:Y3:427:ASP:HB2	1.82	0.62
40:Y7:401:VAL:HG23	40:Y7:411:VAL:HG21	1.82	0.62
24:YJ:71:GLU:HB2	24:YJ:98:ASP:HB3	1.81	0.62
25:YO:87:PRO:HD3	25:ZO:281:TYR:HD2	1.65	0.62
41:Z3:19:VAL:HG13	41:Z3:30:ILE:HB	1.82	0.62
24:ZB:286:LEU:O	24:ZB:373:ARG:NH2	2.33	0.62
24:ZJ:207:GLU:HA	24:ZJ:210:TYR:HB2	1.81	0.62
2:1A:2026:VAL:HA	2:1A:2095:TYR:O	2.00	0.61
19:G0:287:GLN:HG3	19:G0:327:LEU:HD21	1.81	0.61
19:J3:153:ALA:O	19:J3:196:LYS:NZ	2.32	0.61
22:M1:222:ARG:HG2	22:M1:230:PRO:HB3	1.81	0.61
24:NN:73:THR:OG1	25:NO:247:ASN:ND2	2.33	0.61
24:OH:135:PHE:HB2	24:OH:166:LYS:HG3	1.82	0.61
24:PH:329:ASN:HA	24:PH:332:VAL:HG12	1.82	0.61
25:PI:47:ILE:HG22	25:PI:51:PHE:HB2	1.81	0.61
25:PM:127:CYS:SG	25:PM:128:ASP:N	2.73	0.61
28:Q0:2267:LYS:HE3	28:Q0:2355:VAL:HG11	1.81	0.61
24:QD:132:LEU:HD22	24:QD:164:LYS:HD3	1.80	0.61
25:QE:7:ILE:HB	25:QE:135:VAL:HG12	1.81	0.61
24:QJ:191:THR:HG21	24:QJ:425:LEU:HD13	1.81	0.61
25:QQ:304:ASP:HB3	25:QQ:307:HIS:CE1	2.35	0.61
29:R1:164:ARG:NH2	29:R1:198:CYS:SG	2.72	0.61
24:RJ:269:LEU:HD12	24:RJ:301:MET:HG2	1.81	0.61
24:RN:76:ASP:OD1	25:RO:46:ARG:NH2	2.32	0.61
24:SB:102:ASN:HB2	24:SB:105:ARG:HB2	1.82	0.61
24:VN:251:ASP:H	24:VN:254:GLU:HB2	1.63	0.61
24:WD:210:TYR:OH	25:WE:323:THR:OG1	2.17	0.61
25:WM:205:GLU:OE1	24:WN:329:ASN:ND2	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:X2:132:LEU:HD11	39:X2:139:GLY:HA3	1.82	0.61
25:XE:316:LEU:HB2	25:XE:366:THR:HB	1.81	0.61
40:Y4:252:GLU:HA	40:Y4:447:ARG:HH21	1.63	0.61
25:ZO:397:TRP:HE1	24:ZP:260:VAL:HB	1.64	0.61
2:1B:1928:GLN:OE1	18:C1:1609:ARG:NH2	2.32	0.61
2:1C:1928:GLN:OE1	18:C2:1609:ARG:NH2	2.32	0.61
2:1D:2163:GLN:HB2	2:1D:2244:ASP:HB2	1.81	0.61
17:B2:390:ASP:OD2	24:SF:339:ARG:NH2	2.32	0.61
18:C2:839:ALA:O	18:C2:842:ARG:NH1	2.33	0.61
20:E2:100:ARG:NH2	25:TC:107:THR:O	2.33	0.61
19:H7:95:GLN:O	19:H7:100:LYS:NZ	2.25	0.61
19:H7:322:ALA:O	19:H7:365:ARG:NH2	2.32	0.61
19:J0:343:ALA:O	19:J0:353:LYS:NZ	2.32	0.61
19:K2:43:MET:O	19:K2:47:ARG:NH1	2.32	0.61
24:NB:206:ASN:ND2	44:NB:501:GTP:O2'	2.33	0.61
28:Q1:3189:ASP:OD1	28:Q1:3190:VAL:N	2.32	0.61
25:QG:257:LEU:HD21	25:QG:314:SER:HB2	1.82	0.61
25:TM:7:ILE:HB	25:TM:135:VAL:HG12	1.82	0.61
25:UE:330:MET:HB3	25:UE:349:VAL:HG11	1.80	0.61
25:UG:306:ARG:NH1	36:W5:70:UNK:O	2.33	0.61
24:WH:318:MET:O	24:WH:375:VAL:HA	2.00	0.61
39:X0:233:GLN:HB2	39:X0:255:ARG:HG3	1.81	0.61
14:8D:7:CYS:HA	25:YE:276:ARG:HH22	1.64	0.61
16:A1:165:ALA:O	16:A1:169:ARG:NH1	2.33	0.61
18:C2:1599:THR:HG21	18:C2:1927:THR:HB	1.81	0.61
20:E2:387:ASP:OD1	24:VB:308:ARG:NH1	2.34	0.61
19:H0:178:GLU:O	19:H0:184:LYS:NZ	2.33	0.61
19:I1:79:VAL:HG23	19:I1:84:ILE:HD12	1.81	0.61
19:J3:269:LYS:HG2	19:J3:312:PRO:HG2	1.83	0.61
19:K3:185:ARG:HD2	19:K3:225:LEU:HD13	1.82	0.61
26:O0:294:ARG:HA	26:O0:297:ILE:HG22	1.81	0.61
25:OC:7:ILE:HB	25:OC:135:VAL:HG12	1.83	0.61
24:OH:88:HIS:HB3	24:OH:91:GLN:HG2	1.82	0.61
28:Q0:1859:GLN:OE1	28:Q0:1862:ARG:NH2	2.32	0.61
24:RH:273:ALA:HB3	24:RH:375:VAL:H	1.65	0.61
24:SD:102:ASN:ND2	24:SD:411:GLU:OE2	2.31	0.61
24:TD:127:ASP:OD1	24:UD:293:ASN:ND2	2.34	0.61
24:UP:316:CYS:HA	24:UP:352:LYS:HB3	1.82	0.61
24:XN:259:LEU:HD11	24:XN:316:CYS:HB2	1.82	0.61
25:XO:139:LEU:HD12	25:XO:170:VAL:HG12	1.81	0.61
24:YP:88:HIS:HB3	24:YP:91:GLN:HG2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:ZL:50:ASN:O	24:ZL:64:ARG:NH1	2.33	0.61
25:ZM:32:PRO:O	25:ZM:83:GLN:NE2	2.33	0.61
2:1C:1606:LEU:HA	2:1C:1703:VAL:HB	1.82	0.61
2:1C:2163:GLN:HE21	2:1C:2292:SER:HB3	1.63	0.61
18:C0:1619:LEU:HD11	18:C0:1624:PHE:HB2	1.81	0.61
18:C4:141:LYS:NZ	25:VE:401:GLU:O	2.33	0.61
19:D0:344:LEU:HD11	19:D0:360:LEU:HD11	1.82	0.61
19:I0:302:ILE:O	19:I0:310:ARG:NH1	2.33	0.61
24:OD:169:PHE:HZ	24:OD:238:LEU:HD21	1.66	0.61
24:OP:77:GLU:HA	24:OP:80:THR:HG22	1.82	0.61
24:PF:259:LEU:HD11	24:PF:316:CYS:HB2	1.81	0.61
25:PK:88:ASP:OD1	25:PK:122:LYS:NZ	2.33	0.61
25:PO:217:LEU:HB2	25:PO:220:PRO:HG3	1.82	0.61
28:Q0:60:LEU:HD12	28:Q0:61:PRO:HD2	1.81	0.61
24:TB:273:ALA:HB3	24:TB:375:VAL:H	1.65	0.61
40:Y1:132:ILE:HG21	40:Y1:160:VAL:HG11	1.81	0.61
40:Y2:53:ARG:NH2	40:Y2:67:ASP:OD2	2.33	0.61
24:YD:271:SER:OG	24:YD:301:MET:SD	2.58	0.61
41:Z3:422:ARG:HH22	41:Z3:452:GLU:HA	1.64	0.61
14:8D:57:SER:HA	25:XC:360:GLY:HA3	1.81	0.61
18:C2:612:GLU:HG2	18:C2:921:LEU:HD22	1.82	0.61
19:D5:338:PRO:HA	19:D5:341:VAL:HG22	1.80	0.61
24:OD:238:LEU:HD22	24:OD:378:ILE:HD11	1.81	0.61
25:OG:330:MET:HB3	25:OG:349:VAL:HG11	1.82	0.61
25:OQ:139:LEU:HD12	25:OQ:170:VAL:HG12	1.82	0.61
25:PC:2:ARG:HE	25:PC:240:LEU:HD22	1.65	0.61
28:Q0:3116:ARG:HD3	28:Q0:3131:ALA:HB3	1.82	0.61
24:QJ:76:ASP:OD2	25:QK:46:ARG:NH2	2.34	0.61
24:QJ:180:ALA:HB3	24:QJ:183:GLU:HG3	1.83	0.61
24:RN:195:LEU:HD21	24:RN:428:LEU:HD22	1.82	0.61
25:SK:220:PRO:HD2	24:SL:326:LYS:HD3	1.81	0.61
24:SN:55:GLU:O	24:TN:285:GLN:NE2	2.33	0.61
25:TE:7:ILE:HB	25:TE:135:VAL:HG12	1.81	0.61
24:TJ:76:ASP:OD1	25:TK:46:ARG:NH2	2.34	0.61
25:TK:68:LEU:HD23	25:TK:143:THR:HG23	1.83	0.61
25:UI:130:LEU:HB2	25:UI:162:ARG:HH11	1.66	0.61
25:UI:170:VAL:HG11	25:UI:201:VAL:HG13	1.81	0.61
25:WG:262:ARG:NH2	25:WG:414:ASN:OD1	2.33	0.61
40:Y7:224:MET:HG3	40:Y7:455:LEU:HD21	1.81	0.61
25:YK:7:ILE:HB	25:YK:135:VAL:HG12	1.82	0.61
41:Z3:407:LEU:HD13	41:Z3:492:LEU:HD22	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1D:1310:LEU:HD22	2:1D:1340:ILE:HD13	1.81	0.61
18:C0:1634:PRO:HB2	18:C0:1637:ALA:HB2	1.82	0.61
18:C3:406:ARG:NH1	27:P3:1001:LYS:O	2.33	0.61
18:C4:39:ASN:HD22	18:C4:127:PRO:HG2	1.66	0.61
19:J3:70:ASN:OD1	19:J3:112:ARG:NH2	2.32	0.61
25:OM:198:GLU:HA	25:OM:264:HIS:HB2	1.81	0.61
25:PG:50:TYR:HH	25:PG:237:THR:HG1	1.47	0.61
28:Q0:2711:LEU:HD22	28:Q0:2833:LEU:HG	1.83	0.61
28:Q1:730:ARG:HD2	28:Q1:731:ARG:HH11	1.65	0.61
25:QK:209:ASP:HB3	25:QK:213:ARG:HH12	1.65	0.61
29:R1:44:GLY:O	29:R1:47:THR:OG1	2.14	0.61
24:RD:71:GLU:HG2	24:RD:98:ASP:HB3	1.82	0.61
24:RF:60:LYS:HZ3	24:SF:283:HIS:HA	1.66	0.61
24:RJ:50:ASN:O	24:RJ:64:ARG:NH2	2.31	0.61
25:SC:260:PHE:HB2	25:SC:263:LEU:HD13	1.83	0.61
25:SI:328:GLU:HA	25:SI:331:LEU:HD13	1.82	0.61
25:UO:184:ASN:OD1	25:UO:398:TYR:OH	2.18	0.61
25:XE:315:ALA:HB3	25:XE:351:SER:HA	1.83	0.61
40:Y2:445:SER:HA	40:Y2:448:ASN:HB2	1.83	0.61
24:YF:224:TYR:HB2	25:YG:245:GLN:HE21	1.65	0.61
24:YN:271:SER:HB2	24:YN:377:MET:HB3	1.81	0.61
24:YN:272:TYR:HB3	24:YN:275:ILE:HD11	1.82	0.61
19:D0:178:GLU:OE1	21:F1:146:ASN:ND2	2.33	0.61
19:L0:354:SER:HB2	19:L0:396:LEU:HD21	1.81	0.61
19:L3:203:GLN:HA	19:L3:206:VAL:HG22	1.83	0.61
25:PG:68:LEU:HD11	25:PG:108:GLU:HG3	1.81	0.61
24:PL:193:SER:O	24:PL:197:HIS:ND1	2.33	0.61
25:PO:19:LYS:NZ	25:PO:223:GLY:O	2.33	0.61
28:Q1:116:VAL:HG13	28:Q1:156:ALA:HB1	1.83	0.61
28:Q1:2495:GLN:HE22	28:Q1:2497:THR:HG22	1.65	0.61
25:QI:103:LYS:HA	25:QI:107:THR:HB	1.82	0.61
29:R0:34:LEU:HD11	29:R0:48:LEU:HD21	1.82	0.61
24:TL:273:ALA:HB3	24:TL:375:VAL:H	1.66	0.61
25:UI:19:LYS:NZ	25:UI:223:GLY:O	2.34	0.61
24:VB:402:ARG:NH1	24:VB:415:GLU:OE2	2.34	0.61
25:VM:25:SER:HB2	25:VM:30:ILE:HB	1.83	0.61
25:XK:99:ASN:ND2	24:XL:254:GLU:OE1	2.33	0.61
40:Y1:117:ILE:HD11	40:Y1:148:LEU:HD11	1.81	0.61
40:Y2:416:ARG:HE	40:Y2:417:SER:H	1.49	0.61
40:Y4:62:PRO:HG3	40:Y4:101:TYR:HD2	1.65	0.61
24:YB:273:ALA:HB3	24:YB:375:VAL:H	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:8B:23:GLY:HA2	25:YM:320:ARG:HG3	1.83	0.61
18:C3:1647:GLN:HA	18:C3:1650:ILE:HG12	1.82	0.61
19:D0:253:PHE:HA	19:D0:256:ILE:HD12	1.83	0.61
19:D3:89:VAL:HA	19:D3:92:LEU:HB2	1.83	0.61
19:G3:4:ARG:NH2	24:XH:424:ASP:OD1	2.34	0.61
19:H7:142:LYS:HG3	19:H7:183:LEU:HD11	1.81	0.61
19:J2:343:ALA:O	19:J2:353:LYS:NZ	2.34	0.61
19:J3:115:PRO:HB3	19:J3:156:ASN:HD21	1.65	0.61
19:L2:161:GLN:HA	19:L2:164:VAL:HG12	1.81	0.61
19:L2:276:ARG:NE	19:L2:277:GLU:OE2	2.32	0.61
24:OH:318:MET:HB2	24:OH:376:CYS:HB3	1.82	0.61
25:PI:248:ALA:HA	25:PI:252:LYS:HD2	1.82	0.61
25:PK:27:GLU:OE2	25:PK:318:ARG:NH2	2.33	0.61
28:Q1:98:LEU:HB3	28:Q1:115:HIS:HB2	1.81	0.61
25:QG:67:ASP:OD2	25:QG:72:THR:OG1	2.19	0.61
25:RO:236:ILE:HD12	25:RO:368:ILE:HD11	1.82	0.61
24:SD:195:LEU:O	24:SD:266:HIS:NE2	2.29	0.61
24:SL:180:ALA:HB3	24:SL:183:GLU:HG3	1.80	0.61
24:WJ:305:CYS:HB2	24:WJ:387:ILE:HD11	1.82	0.61
25:WO:315:ALA:HB3	25:WO:351:SER:HA	1.82	0.61
39:X1:219:ALA:HA	39:X1:241:ARG:HH12	1.65	0.61
25:XC:209:ASP:HB2	25:XC:213:ARG:HH21	1.66	0.61
25:XI:237:THR:HB	25:XI:240:LEU:HD12	1.82	0.61
24:XL:128:ASN:HD22	24:XL:128:ASN:C	2.03	0.61
40:Y5:194:ILE:HG13	40:Y5:195:ILE:HD12	1.81	0.61
4:2A:316:ARG:HE	4:2A:354:ALA:HB2	1.66	0.61
18:C3:110:LYS:HD2	19:D2:87:GLN:HE22	1.65	0.61
19:G0:301:TYR:O	19:G0:305:SER:HB2	2.01	0.61
19:G5:227:ARG:HH21	19:G5:266:PHE:HD2	1.48	0.61
19:J0:252:ILE:HA	19:J0:255:LYS:HE2	1.81	0.61
19:J2:27:MET:HE3	19:J3:6:VAL:HG22	1.81	0.61
24:NH:65:CYS:O	24:NH:91:GLN:NE2	2.31	0.61
24:NL:66:ILE:HA	24:NL:91:GLN:HB2	1.82	0.61
44:NN:501:GTP:O3G	25:NO:252:LYS:NZ	2.34	0.61
25:QG:35:THR:HG1	25:QG:37:HIS:HE2	1.49	0.61
25:QI:253:LEU:HD21	25:QI:316:LEU:HD21	1.83	0.61
25:RG:16:ILE:HD11	25:RG:229:ILE:HB	1.82	0.61
24:TH:219:ILE:HG23	24:TH:222:PRO:HG3	1.82	0.61
25:VM:49:VAL:HG11	25:VM:241:ARG:HG2	1.83	0.61
24:VN:120:ASP:OD2	24:VN:124:LYS:NZ	2.33	0.61
25:VO:2:ARG:HB3	25:VO:131:GLN:HB2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:VO:99:ASN:ND2	24:VP:254:GLU:OE1	2.34	0.61
24:WD:325:PRO:O	24:WD:329:ASN:ND2	2.32	0.61
25:WM:327:ASP:HA	25:WM:330:MET:HG2	1.83	0.61
25:XG:396:HIS:HA	25:XG:399:THR:HG22	1.83	0.61
40:Y0:453:GLN:OE1	40:Y0:456:ARG:NH1	2.34	0.61
40:Y1:129:GLN:HE21	40:Y1:129:GLN:HA	1.66	0.61
40:Y2:66:ALA:HB3	40:Y2:77:ALA:HB3	1.82	0.61
24:YH:206:ASN:ND2	44:YH:501:GTP:O2'	2.33	0.61
24:YJ:286:LEU:O	24:YJ:373:ARG:NH1	2.34	0.61
24:YL:316:CYS:HA	24:YL:352:LYS:HB3	1.83	0.61
24:ZL:222:PRO:HD2	25:ZM:324:LYS:HG2	1.83	0.61
25:ZO:218:THR:HG23	25:ZO:219:THR:HG23	1.82	0.61
14:8A:57:SER:HA	25:XO:360:GLY:HA3	1.83	0.61
17:B1:448:GLN:NE2	17:B1:452:ASN:OD1	2.34	0.61
18:C0:622:LEU:HB2	18:C0:767:VAL:HG22	1.82	0.61
18:C1:1813:PRO:HG2	18:C1:1917:ARG:HH22	1.65	0.61
20:E2:380:LYS:O	24:VB:214:ARG:NH2	2.33	0.61
19:G0:260:LEU:HD22	19:G0:297:ALA:HB1	1.83	0.61
19:G1:52:ASP:O	19:G1:58:GLN:NE2	2.32	0.61
19:G3:276:ARG:NH1	19:G3:277:GLU:OE2	2.34	0.61
19:H6:354:SER:HB2	19:H6:396:LEU:HD12	1.83	0.61
19:I1:399:LYS:HA	19:I1:402:ARG:HG2	1.83	0.61
25:NO:213:ARG:O	25:NO:216:LYS:NZ	2.31	0.61
25:OO:375:GLN:HB2	25:OO:419:VAL:HG23	1.83	0.61
25:PC:309:ARG:NH1	25:PC:426:GLN:O	2.30	0.61
25:QC:49:VAL:HG11	25:QC:241:ARG:HG2	1.83	0.61
25:QE:54:ALA:HA	25:RE:283:ALA:HB2	1.82	0.61
24:QH:222:PRO:O	25:QI:324:LYS:NZ	2.34	0.61
25:QO:207:LEU:HD11	25:QO:229:ILE:HD11	1.81	0.61
29:R1:11:LEU:HD12	29:R1:54:ALA:HB3	1.82	0.61
24:RF:387:ILE:HD13	24:RF:390:ARG:HH12	1.65	0.61
24:RN:70:LEU:HD12	24:RN:145:THR:HG22	1.83	0.61
25:TI:421:GLU:HA	25:TI:424:GLN:HG2	1.83	0.61
25:UG:237:THR:HG23	25:UG:241:ARG:HE	1.66	0.61
25:XC:405:GLU:HA	25:XC:408:PHE:HD2	1.66	0.61
25:XK:314:SER:HB3	25:XK:368:ILE:HB	1.83	0.61
40:Y4:337:GLU:HA	40:Y4:360:VAL:HB	1.83	0.61
40:Y6:414:SER:OG	40:Y6:438:LYS:NZ	2.31	0.61
24:YB:286:LEU:O	24:YB:373:ARG:NH1	2.34	0.61
24:YN:259:LEU:HD23	24:YN:268:MET:HG2	1.83	0.61
25:ZM:213:ARG:HB3	25:ZM:297:LYS:HE2	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:C0:596:LEU:HB2	18:C0:766:VAL:HG12	1.82	0.60
19:G0:16:GLU:HG3	19:G1:16:GLU:HG3	1.83	0.60
19:H0:301:TYR:O	19:H0:305:SER:HB2	2.01	0.60
19:H5:251:GLU:O	19:H5:255:LYS:NZ	2.34	0.60
24:NF:391:LEU:HA	24:NF:394:LYS:HB3	1.83	0.60
24:OF:221:ARG:HH21	25:OG:325:GLU:HG2	1.66	0.60
24:PH:1:MET:N	24:PH:130:THR:OG1	2.34	0.60
24:PL:236:SER:OG	24:PL:243:ARG:NH2	2.34	0.60
25:RI:8:GLN:NE2	25:RI:13:GLY:O	2.34	0.60
24:RJ:27:GLU:OE1	24:RJ:243:ARG:NH2	2.34	0.60
24:RN:272:TYR:HB3	24:RN:275:ILE:HD11	1.81	0.60
25:UE:68:LEU:HD23	25:UE:143:THR:HG23	1.83	0.60
25:UK:60:VAL:HG11	25:UK:86:ARG:HE	1.66	0.60
25:VC:274:THR:HG21	25:VC:282:ARG:HG3	1.82	0.60
25:VE:19:LYS:NZ	25:VE:223:GLY:O	2.34	0.60
24:VN:71:GLU:HG3	25:VO:2:ARG:HH12	1.66	0.60
25:WM:278:SER:HA	25:WM:281:TYR:HD2	1.65	0.60
25:WM:375:GLN:HE22	25:WM:379:LYS:HE2	1.65	0.60
25:XC:54:ALA:HB3	25:XC:58:ARG:HB3	1.83	0.60
25:XG:152:ILE:HD12	25:XG:164:MET:HE1	1.83	0.60
40:Y1:194:ILE:HB	40:Y1:234:LEU:HD22	1.82	0.60
40:Y5:117:ILE:HD11	40:Y5:148:LEU:HD11	1.83	0.60
40:Y6:77:ALA:HB1	40:Y6:158:MET:HB3	1.83	0.60
24:YJ:195:LEU:HD11	24:YJ:428:LEU:HD12	1.81	0.60
41:Z3:599:GLU:HA	41:Z3:602:LEU:HG	1.83	0.60
25:ZI:267:MET:HB3	25:ZI:374:ILE:HD11	1.83	0.60
4:2A:284:THR:HG21	4:2A:289:GLN:HB3	1.82	0.60
18:C0:552:ASP:O	18:C0:1461:ARG:NH1	2.34	0.60
18:C1:784:LEU:HD22	18:C1:820:GLY:HA2	1.83	0.60
18:C2:1671:GLU:HB3	18:C2:1748:LYS:HE2	1.83	0.60
18:C3:500:ARG:NH2	18:C3:545:ASP:OD2	2.34	0.60
19:D0:52:ASP:OD1	19:D0:53:ASN:N	2.34	0.60
19:D2:329:LEU:HD13	19:D2:332:ILE:HD11	1.83	0.60
19:G5:251:GLU:O	19:G5:255:LYS:NZ	2.33	0.60
19:H2:114:SER:HB3	19:H2:117:LEU:HD13	1.83	0.60
25:NK:62:ARG:NH2	25:NK:127:CYS:SG	2.74	0.60
25:PQ:193:VAL:HG21	25:PQ:418:LEU:HD21	1.82	0.60
24:RD:121:ARG:HE	24:RD:124:LYS:HE3	1.66	0.60
25:RK:113:ILE:HG13	25:RK:150:LEU:HD22	1.83	0.60
24:SD:101:ASN:HA	24:SD:144:GLY:H	1.65	0.60
24:SP:205:ASP:HB2	24:SP:303:VAL:HG23	1.81	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:UD:338:LYS:NZ	24:UD:340:THR:OG1	2.33	0.60
25:UM:7:ILE:HB	25:UM:135:VAL:HG12	1.82	0.60
24:VP:205:ASP:HB2	24:VP:303:VAL:HG12	1.82	0.60
24:WD:211:ASP:OD1	24:WD:214:ARG:NH2	2.34	0.60
25:XK:130:LEU:O	25:XK:162:ARG:NH1	2.33	0.60
40:Y1:189:VAL:HG13	40:Y1:468:ALA:HB3	1.83	0.60
40:Y4:423:SER:HA	40:Y4:450:LYS:HE3	1.83	0.60
40:Y6:446:GLU:HG2	40:Y6:447:ARG:HD2	1.83	0.60
24:ZJ:392:ASP:OD1	24:ZJ:422:ARG:NH1	2.34	0.60
25:ZK:61:PRO:HD3	25:ZK:84:ILE:HG22	1.82	0.60
2:1C:2135:ARG:HH12	2:1C:2296:LYS:HA	1.66	0.60
14:8C:70:LEU:HB3	24:WH:2:ARG:HH12	1.66	0.60
14:8C:234:SER:HB3	14:8C:237:PHE:HB2	1.83	0.60
14:8D:23:GLY:H	25:YE:320:ARG:HD2	1.65	0.60
20:E2:120:ARG:HB3	20:E2:132:LEU:HD21	1.83	0.60
25:NK:54:ALA:HA	25:OM:283:ALA:HB2	1.82	0.60
24:NL:71:GLU:HB2	24:NL:98:ASP:HB3	1.83	0.60
25:NO:215:LEU:HB3	25:NO:217:LEU:HD23	1.83	0.60
25:PQ:110:ALA:HA	25:PQ:113:ILE:HB	1.83	0.60
28:Q0:8:ILE:O	28:Q0:12:HIS:ND1	2.34	0.60
28:Q0:2560:LEU:HD23	28:Q0:2597:LEU:HD21	1.83	0.60
25:SC:7:ILE:HB	25:SC:135:VAL:HG12	1.83	0.60
24:SJ:207:GLU:HA	24:SJ:210:TYR:HB2	1.84	0.60
25:UE:100:ASN:HB3	25:UE:103:LYS:HB2	1.82	0.60
25:WC:100:ASN:HB3	25:WC:103:LYS:HB2	1.82	0.60
39:X1:132:LEU:HD11	39:X1:139:GLY:HA3	1.83	0.60
24:XD:325:PRO:O	24:XD:329:ASN:ND2	2.35	0.60
24:YB:338:LYS:NZ	24:YB:340:THR:OG1	2.33	0.60
24:YH:205:ASP:HB3	24:YH:303:VAL:HA	1.83	0.60
25:YK:207:LEU:HB3	25:YK:225:LEU:HD22	1.83	0.60
41:Z2:60:VAL:HG22	41:Z2:267:ARG:HD3	1.83	0.60
41:Z2:538:LEU:HA	41:Z2:541:LYS:HG2	1.82	0.60
25:ZG:164:MET:HB2	25:ZG:197:ASP:H	1.66	0.60
2:1A:1253:THR:HG21	43:1A:2602:ANP:H3'	1.83	0.60
2:1D:2012:VAL:HB	2:1D:2112:VAL:HB	1.83	0.60
17:B0:536:HIS:O	24:SP:215:ARG:NH1	2.35	0.60
17:B2:416:ARG:NH2	25:RE:160:PRO:O	2.34	0.60
18:C1:613:LEU:HD11	18:C1:766:VAL:HG11	1.83	0.60
18:C2:1381:LEU:HD22	18:C2:1455:LEU:HD11	1.84	0.60
19:H4:257:LEU:HD11	19:H4:294:GLY:HA2	1.83	0.60
19:J0:251:GLU:OE1	19:J0:255:LYS:NZ	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:NH:216:SER:OG	24:NH:275:ILE:O	2.19	0.60
24:PP:28:HIS:HE1	24:PP:244:PHE:CZ	2.19	0.60
24:QD:27:GLU:OE2	24:QD:243:ARG:NH1	2.34	0.60
25:QE:260:PHE:HB2	25:QE:263:LEU:HD13	1.82	0.60
25:RI:292:GLN:O	25:RI:298:ASN:ND2	2.35	0.60
25:RO:179:VAL:HG22	24:RP:352:LYS:HZ3	1.66	0.60
24:SB:127:ASP:OD2	24:TB:293:ASN:ND2	2.33	0.60
32:T2:474:ARG:NH2	24:YD:414:GLU:OE2	2.34	0.60
24:TH:102:ASN:HB3	24:TH:105:ARG:HB2	1.83	0.60
25:UC:328:GLU:OE2	25:UC:332:ASN:ND2	2.34	0.60
24:UN:70:LEU:HD12	24:UN:145:THR:HG22	1.83	0.60
24:VB:176:GLN:HG3	25:VC:331:LEU:HD11	1.84	0.60
24:VB:211:ASP:OD1	24:VB:214:ARG:NH2	2.34	0.60
25:WE:318:ARG:HE	25:WE:358:PRO:HD3	1.66	0.60
25:WG:236:ILE:HD12	25:WG:368:ILE:HD11	1.83	0.60
24:WJ:259:LEU:HD23	24:WJ:268:MET:HG2	1.81	0.60
25:WO:213:ARG:HH11	25:WO:297:LYS:HE3	1.65	0.60
24:XF:319:TYR:HB3	24:XF:323:VAL:HG21	1.82	0.60
25:XK:396:HIS:HA	25:XK:399:THR:HG22	1.83	0.60
41:Z2:415:VAL:HG22	41:Z2:455:ARG:HH22	1.66	0.60
24:ZJ:70:LEU:HD12	24:ZJ:145:THR:HG22	1.84	0.60
24:ZL:273:ALA:HB2	24:ZL:295:ALA:HB2	1.83	0.60
2:1D:1545:LEU:HD21	2:1D:2001:VAL:HG11	1.81	0.60
15:9F:974:VAL:H	15:9F:1071:THR:HA	1.67	0.60
19:D7:114:SER:HB3	19:D7:117:LEU:HD23	1.84	0.60
19:I0:317:LEU:HD13	19:I0:320:ILE:HD11	1.84	0.60
19:J1:13:TYR:OH	19:J1:17:ARG:NH2	2.34	0.60
19:L0:371:ALA:HB1	19:L0:423:ARG:HG3	1.84	0.60
25:NE:164:MET:HB2	25:NE:197:ASP:H	1.66	0.60
25:OC:175:VAL:HG23	24:OD:332:VAL:HG11	1.83	0.60
24:OD:122:ILE:HG21	24:OD:157:LEU:HD11	1.83	0.60
25:OE:164:MET:HG2	25:OE:196:ALA:HA	1.84	0.60
24:PD:66:ILE:HG22	24:PD:91:GLN:HB2	1.83	0.60
24:PN:71:GLU:HB2	24:PN:98:ASP:HB3	1.84	0.60
28:Q0:3121:LYS:HE2	28:Q0:3132:PRO:HG3	1.83	0.60
25:RI:67:ASP:OD2	25:RI:72:THR:OG1	2.18	0.60
25:RI:236:ILE:HD12	25:RI:368:ILE:HD11	1.82	0.60
24:RP:62:VAL:HG23	24:SP:283:HIS:HE1	1.66	0.60
25:SE:392:LYS:HG2	25:SE:395:LEU:HD13	1.83	0.60
25:SK:25:SER:HB2	25:SK:30:ILE:HB	1.83	0.60
32:T2:494:LYS:HD3	32:T2:495:PRO:HD2	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:UI:375:GLN:OE1	25:UI:379:LYS:NZ	2.28	0.60
25:WG:314:SER:HB3	25:WG:368:ILE:HB	1.82	0.60
25:XC:164:MET:HB3	25:XC:197:ASP:H	1.66	0.60
24:YH:259:LEU:HD11	24:YH:316:CYS:HB2	1.84	0.60
24:ZD:214:ARG:NH2	24:ZD:220:GLU:O	2.33	0.60
24:ZJ:2:ARG:NH1	24:ZJ:251:ASP:OD1	2.35	0.60
14:8A:171:PRO:HG2	14:8A:174:ILE:HG21	1.82	0.60
18:C0:817:LEU:HB2	18:C0:904:PHE:HA	1.83	0.60
20:E3:343:PRO:HA	20:E3:347:LEU:HD13	1.83	0.60
19:G1:221:GLN:HE22	32:T0:502:GLU:HA	1.66	0.60
19:G5:387:GLU:OE1	19:G5:397:LYS:NZ	2.27	0.60
19:H0:227:ARG:HB3	19:H0:267:VAL:HG12	1.84	0.60
19:I0:15:LYS:HZ3	25:OI:402:GLY:H	1.49	0.60
19:J1:354:SER:HB2	19:J1:396:LEU:HD23	1.83	0.60
19:K1:322:ALA:O	19:K1:365:ARG:NH2	2.34	0.60
19:K2:290:VAL:HG21	19:K2:327:LEU:HD22	1.81	0.60
19:L1:264:ASP:HB3	19:L1:267:VAL:HG22	1.84	0.60
22:M0:804:ARG:NH2	28:Q0:656:CYS:SG	2.74	0.60
24:ND:97:GLU:OE1	24:ND:105:ARG:NH2	2.34	0.60
25:NI:314:SER:HB3	25:NI:368:ILE:HB	1.83	0.60
25:OO:60:VAL:HG21	25:OO:86:ARG:HG3	1.82	0.60
24:OP:206:ASN:ND2	44:OP:501:GTP:O2'	2.35	0.60
25:PO:205:GLU:HA	25:PO:208:TYR:HB2	1.83	0.60
25:RI:48:ASN:O	25:RI:62:ARG:NH1	2.30	0.60
24:RN:271:SER:HB2	24:RN:377:MET:HB3	1.83	0.60
24:SL:222:PRO:O	25:SM:324:LYS:NZ	2.34	0.60
24:TF:273:ALA:HB3	24:TF:375:VAL:H	1.67	0.60
24:UP:338:LYS:HZ2	24:UP:341:ILE:HG12	1.66	0.60
39:X0:189:LYS:HB2	39:X0:211:ARG:HG2	1.84	0.60
39:X2:189:LYS:HA	39:X2:210:LEU:HA	1.82	0.60
39:X3:177:ARG:HA	39:X3:198:LEU:HD12	1.83	0.60
40:Y6:209:GLU:HB2	40:Y6:287:ASP:HB3	1.82	0.60
24:YF:223:THR:OG1	25:YG:245:GLN:NE2	2.29	0.60
41:Z0:307:ARG:HH11	41:Z0:310:GLU:HG3	1.66	0.60
24:ZB:180:ALA:HB3	24:ZB:183:GLU:HG3	1.82	0.60
24:ZD:207:GLU:HA	24:ZD:210:TYR:HB2	1.83	0.60
24:ZJ:108:TYR:O	24:ZJ:112:LYS:NZ	2.28	0.60
24:ZN:298:PRO:HG3	24:ZN:308:ARG:HH12	1.66	0.60
2:1D:1533:ARG:HH22	2:1D:1535:VAL:HG23	1.67	0.60
2:1D:2073:PRO:HG3	18:C3:1568:ALA:HA	1.83	0.60
17:B0:672:ARG:HG3	33:U1:150:GLN:HE22	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:C0:632:MET:O	18:C0:636:GLN:NE2	2.35	0.60
18:C0:1175:TYR:OH	18:C0:1454:ARG:NH2	2.34	0.60
19:D2:178:GLU:O	19:D2:184:LYS:NZ	2.26	0.60
19:D5:301:TYR:OH	19:D5:309:ASN:OD1	2.14	0.60
19:J0:13:TYR:OH	19:J1:17:ARG:NH1	2.31	0.60
23:N3:139:ARG:HH11	23:N3:140:ARG:HH11	1.47	0.60
24:NF:259:LEU:HD23	24:NF:268:MET:HE2	1.83	0.60
25:NO:49:VAL:HG11	25:NO:241:ARG:HG2	1.83	0.60
25:OQ:257:LEU:O	25:OQ:370:ASN:ND2	2.34	0.60
24:PF:141:VAL:HG22	24:PF:187:SER:HA	1.83	0.60
24:PF:207:GLU:HA	24:PF:210:TYR:HB2	1.84	0.60
25:PG:96:GLY:O	25:PG:103:LYS:NZ	2.33	0.60
25:PQ:7:ILE:HB	25:PQ:135:VAL:HG12	1.82	0.60
28:Q1:174:THR:HG22	28:Q1:200:CYS:HB3	1.82	0.60
25:RG:257:LEU:HD21	25:RG:314:SER:HB2	1.82	0.60
25:RI:27:GLU:OE2	25:RI:241:ARG:NH1	2.35	0.60
24:TD:271:SER:HB2	24:TD:377:MET:HB3	1.82	0.60
24:TN:11:GLN:HG2	24:TN:74:VAL:HG21	1.82	0.60
24:UJ:98:ASP:OD1	24:UJ:98:ASP:N	2.34	0.60
24:UP:286:LEU:O	24:UP:373:ARG:NH1	2.35	0.60
25:VG:253:LEU:HD21	25:VG:316:LEU:HD21	1.84	0.60
24:XB:180:ALA:HB3	24:XB:183:GLU:HG3	1.84	0.60
40:Y5:140:ASP:O	40:Y5:147:LYS:NZ	2.34	0.60
40:Y7:81:SER:OG	40:Y7:94:ARG:NH2	2.35	0.60
24:YB:55:GLU:O	24:ZB:285:GLN:NE2	2.28	0.60
41:Z0:226:LYS:O	41:Z0:423:ASN:ND2	2.34	0.60
41:Z3:276:ALA:HB2	41:Z3:288:ILE:HD11	1.84	0.60
2:1C:85:MET:HG3	2:1C:86:VAL:HG23	1.83	0.60
2:1C:2043:SER:HA	2:1C:2077:LEU:HB3	1.82	0.60
14:8A:233:ASP:HB2	25:QO:111:GLU:HB2	1.83	0.60
18:C0:1812:TYR:OH	18:C0:1829:LYS:NZ	2.34	0.60
18:C3:1909:ARG:HD2	18:C3:1912:LYS:HZ2	1.66	0.60
19:D2:95:GLN:O	19:D2:100:LYS:NZ	2.35	0.60
19:H6:176:VAL:O	19:H6:184:LYS:NZ	2.24	0.60
19:J3:68:LEU:HD21	19:J3:75:LEU:HD22	1.84	0.60
19:L1:42:ALA:O	19:L1:46:LEU:HB2	2.00	0.60
19:L2:122:ILE:HG12	19:L2:127:LEU:HD21	1.84	0.60
24:NB:264:ARG:NH1	24:NB:431:ASP:OD2	2.35	0.60
24:PL:180:ALA:HB3	24:PL:183:GLU:HG3	1.84	0.60
25:QK:2:ARG:HD2	25:QK:240:LEU:HD22	1.83	0.60
25:QO:64:ILE:HA	25:QO:89:ASN:HB3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:RF:105:ARG:HG3	24:RF:411:GLU:HG3	1.83	0.60
24:RH:101:ASN:HA	24:RH:144:GLY:H	1.66	0.60
25:TE:60:VAL:HG21	25:TE:86:ARG:HG3	1.83	0.60
25:UK:184:ASN:OD1	25:UK:398:TYR:OH	2.20	0.60
24:UP:71:GLU:HB2	24:UP:98:ASP:HB3	1.84	0.60
25:VE:219:THR:HA	24:VF:326:LYS:HE2	1.84	0.60
25:VK:2:ARG:HB3	25:VK:131:GLN:HB2	1.82	0.60
44:WN:501:GTP:O2G	25:WO:252:LYS:NZ	2.31	0.60
25:XC:396:HIS:HA	25:XC:399:THR:HG22	1.84	0.60
40:Y2:381:VAL:HG23	40:Y2:409:TRP:HZ3	1.67	0.60
40:Y2:440:GLY:HA3	40:Y2:447:ARG:HD3	1.82	0.60
25:ZI:222:PHE:O	25:ZI:226:ASN:ND2	2.35	0.60
2:1D:1249:SER:N	43:1D:2602:ANP:O3A	2.35	0.60
18:C1:1307:ARG:NH2	18:C1:1391:SER:OG	2.33	0.60
21:F3:143:LYS:HE3	21:F3:146:ASN:HA	1.82	0.60
19:G3:241:VAL:HG12	19:G3:281:HIS:HB3	1.84	0.60
19:J3:114:SER:HB3	19:J3:117:LEU:HG	1.83	0.60
19:L3:151:TYR:O	19:L3:155:HIS:ND1	2.35	0.60
25:NE:139:LEU:HD12	25:NE:185:ALA:HA	1.83	0.60
25:NE:257:LEU:HD11	25:NE:314:SER:HB3	1.84	0.60
24:NN:273:ALA:HB3	24:NN:375:VAL:H	1.66	0.60
25:PK:131:GLN:HE22	25:PK:250:LEU:HB2	1.67	0.60
24:PL:248:LEU:HB2	24:PL:355:ILE:H	1.67	0.60
24:QD:392:ASP:OD1	24:QD:422:ARG:NH1	2.35	0.60
24:QF:318:MET:HB2	24:QF:376:CYS:HB3	1.82	0.60
24:QL:222:PRO:HG2	25:QM:324:LYS:HE2	1.83	0.60
25:SC:242:PHE:HB3	25:SC:356:ILE:HD13	1.82	0.60
33:U1:29:HIS:HA	33:U1:51:TRP:HB2	1.83	0.60
25:UG:246:LEU:HB2	25:UG:353:VAL:H	1.66	0.60
44:UH:501:GTP:O2G	25:UI:252:LYS:NZ	2.35	0.60
25:UO:284:LEU:HD11	25:UO:362:LYS:HE2	1.83	0.60
25:VE:272:PRO:HG3	25:VE:364:SER:HA	1.84	0.60
24:VH:88:HIS:CE1	24:VH:90:GLU:HB3	2.36	0.60
25:WM:49:VAL:HG21	25:WM:241:ARG:HG2	1.83	0.60
24:XB:298:PRO:HA	24:XB:301:MET:HG2	1.82	0.60
24:XN:325:PRO:O	24:XN:329:ASN:ND2	2.35	0.60
40:Y4:46:GLU:O	40:Y4:71:ARG:NH1	2.34	0.60
25:YM:290:THR:HG21	25:YM:329:GLN:HB3	1.84	0.60
24:YN:101:ASN:HD22	25:YO:256:ASN:HD21	1.49	0.60
25:ZC:290:THR:HG21	25:ZC:329:GLN:HB3	1.83	0.60
24:ZL:264:ARG:NH1	24:ZL:431:ASP:OD2	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1D:1930:ALA:HB3	18:C3:1609:ARG:HH21	1.66	0.60
19:D1:264:ASP:HB3	19:D1:267:VAL:HG22	1.83	0.60
19:D3:104:ALA:HB3	19:D3:144:ALA:HB1	1.84	0.60
19:D6:301:TYR:O	19:D6:305:SER:HB2	2.02	0.60
19:J2:122:ILE:HG23	19:J2:127:LEU:HD21	1.83	0.60
19:L3:324:SER:HB3	19:L3:327:LEU:HG	1.83	0.60
25:NG:238:CYS:HB2	25:NG:318:ARG:HD3	1.84	0.60
24:OH:15:GLN:NE2	44:OH:501:GTP:O6	2.35	0.60
24:PP:339:ARG:NH2	24:PP:342:GLN:OE1	2.35	0.60
24:QN:53:PHE:HB3	24:QN:61:HIS:HB3	1.84	0.60
25:QQ:345:ILE:O	25:QQ:348:ASN:ND2	2.35	0.60
29:R0:11:LEU:HD21	29:R0:26:VAL:HG11	1.84	0.60
24:RD:88:HIS:HD2	24:SD:283:HIS:HB2	1.65	0.60
24:TB:97:GLU:OE2	25:TC:251:ARG:NH1	2.34	0.60
24:TJ:133:GLN:NE2	24:TJ:251:ASP:OD2	2.35	0.60
24:VL:254:GLU:O	24:VL:258:ASN:ND2	2.34	0.60
25:WE:8:GLN:HE22	25:WE:63:ALA:HB1	1.67	0.60
39:X0:106:ARG:HE	39:X0:131:ARG:HB2	1.66	0.60
39:X3:132:LEU:HD11	39:X3:139:GLY:HA3	1.84	0.60
25:XI:52:ASN:ND2	25:XI:123:GLU:OE2	2.28	0.60
40:Y1:193:ASN:HD21	40:Y1:196:ASN:HD22	1.48	0.60
40:Y6:188:PRO:HD2	40:Y6:454:LEU:HD21	1.83	0.60
40:Y7:214:PRO:HA	40:Y7:282:VAL:HG12	1.84	0.60
41:Z3:49:GLU:HG3	41:Z3:538:LEU:HD22	1.84	0.60
24:ZJ:298:PRO:HG3	24:ZJ:308:ARG:HH21	1.65	0.60
18:C1:205:ARG:NH1	25:VO:403:MET:SD	2.71	0.59
19:L3:337:LEU:HD23	19:L3:340:LEU:HD12	1.84	0.59
24:NF:222:PRO:O	25:NG:324:LYS:NZ	2.34	0.59
24:TD:221:ARG:HA	25:TE:324:LYS:HZ1	1.67	0.59
25:UM:392:LYS:NZ	25:UM:405:GLU:OE1	2.35	0.59
24:UN:322:ASP:O	24:UN:373:ARG:NH1	2.35	0.59
24:VB:178:SER:HB2	25:VC:347:ASN:HD22	1.67	0.59
25:WC:11:GLN:NE2	24:WD:247:ALA:O	2.35	0.59
25:XE:247:ASN:O	25:XE:252:LYS:NZ	2.34	0.59
24:XF:286:LEU:O	24:XF:373:ARG:NH1	2.35	0.59
25:XG:311:LEU:HD13	25:XG:342:VAL:HG21	1.84	0.59
40:Y0:66:ALA:HB3	40:Y0:77:ALA:HB3	1.82	0.59
25:YG:2:ARG:HB2	25:YG:131:GLN:HB2	1.84	0.59
41:Z1:145:LYS:HD2	41:Z1:174:LEU:HD21	1.83	0.59
25:ZC:213:ARG:HH22	25:ZC:297:LYS:HG3	1.66	0.59
24:ZD:264:ARG:HH12	24:ZD:428:LEU:HA	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:ZL:180:ALA:HA	25:ZM:350:LYS:HD2	1.84	0.59
25:ZO:68:LEU:HB3	25:ZO:96:GLY:HA2	1.84	0.59
2:1A:1344:LYS:HA	2:1A:1435:ILE:HG13	1.85	0.59
2:1C:1609:VAL:HG13	2:1C:1686:GLY:H	1.67	0.59
18:C0:594:LEU:HD21	18:C0:928:ALA:HB1	1.83	0.59
20:E2:357:THR:HG21	19:L3:39:GLN:HE22	1.68	0.59
19:G3:221:GLN:NE2	32:T1:501:ASP:OD1	2.35	0.59
19:H1:256:ILE:HD13	19:H1:274:VAL:HG11	1.83	0.59
19:K2:354:SER:HB2	19:K2:396:LEU:HD12	1.84	0.59
22:M0:971:LEU:HB2	28:Q0:1077:ARG:HH22	1.66	0.59
25:NO:325:GLU:HA	25:NO:328:GLU:HG3	1.84	0.59
24:QD:236:SER:O	24:QD:243:ARG:NH2	2.36	0.59
25:QM:313:ALA:HB3	25:QM:349:VAL:HG22	1.83	0.59
25:RE:86:ARG:HH12	25:SE:282:ARG:HA	1.66	0.59
25:RE:213:ARG:HH22	25:RE:297:LYS:HB3	1.67	0.59
25:RO:260:PHE:HB2	25:RO:263:LEU:HD13	1.83	0.59
24:TJ:223:THR:OG1	25:TK:245:GLN:OE1	2.19	0.59
24:TL:195:LEU:O	24:TL:266:HIS:NE2	2.32	0.59
25:UE:284:LEU:HD23	25:UE:362:LYS:HB2	1.84	0.59
25:VG:130:LEU:O	25:VG:162:ARG:NH1	2.35	0.59
24:WB:73:THR:OG1	25:WC:247:ASN:ND2	2.33	0.59
25:WK:52:ASN:ND2	25:WK:123:GLU:OE2	2.32	0.59
39:X0:132:LEU:HD11	39:X0:139:GLY:HA3	1.82	0.59
24:XJ:50:ASN:O	24:XJ:64:ARG:NH1	2.35	0.59
24:YL:202:VAL:HA	24:YL:268:MET:HB2	1.84	0.59
25:ZE:6:HIS:ND1	25:ZE:134:GLN:OE1	2.35	0.59
24:ZF:230:LEU:HD22	24:ZF:275:ILE:HD11	1.84	0.59
24:ZP:27:GLU:OE2	24:ZP:358:GLN:NE2	2.35	0.59
2:1B:1533:ARG:HH22	2:1B:1535:VAL:HG23	1.66	0.59
2:1C:1276:GLU:HA	2:1C:1279:LYS:HG2	1.82	0.59
2:1D:1309:ARG:NH1	2:1D:1315:CYS:SG	2.75	0.59
2:1D:1924:ARG:O	2:1D:1926:ARG:NH1	2.35	0.59
16:A3:95:SER:OG	25:XC:121:ARG:NH1	2.35	0.59
18:C1:1608:LEU:HD22	18:C1:1619:LEU:HD22	1.85	0.59
18:C2:76:THR:HG21	18:C2:155:THR:HB	1.83	0.59
20:E0:155:THR:HG22	20:E0:156:TYR:H	1.67	0.59
21:F1:24:LYS:HB3	21:F1:58:ARG:HG3	1.83	0.59
19:H5:58:GLN:OE1	19:H5:95:GLN:NE2	2.35	0.59
22:M1:936:GLU:OE2	28:Q1:760:ALA:N	2.35	0.59
23:N3:105:LEU:HA	23:N3:108:VAL:HG12	1.84	0.59
24:ND:259:LEU:HD23	24:ND:268:MET:HG2	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:ON:271:SER:HB2	24:ON:377:MET:HB3	1.83	0.59
28:Q0:2620:LEU:HD13	28:Q0:3052:SER:HB2	1.84	0.59
28:Q1:816:ARG:NH1	28:Q1:824:ASP:OD2	2.35	0.59
25:RC:49:VAL:HG21	25:RC:241:ARG:HG2	1.84	0.59
25:RC:100:ASN:ND2	25:RC:401:GLU:OE2	2.35	0.59
24:SN:102:ASN:ND2	24:SN:411:GLU:OE2	2.36	0.59
24:TD:173:PRO:O	24:TD:390:ARG:NH2	2.29	0.59
24:TD:195:LEU:HD21	24:TD:264:ARG:HE	1.66	0.59
25:TI:171:PRO:HG2	25:TI:381:VAL:HG12	1.83	0.59
25:UK:221:THR:HG23	25:UK:223:GLY:H	1.66	0.59
24:UL:90:GLU:OE2	24:UL:121:ARG:NH1	2.34	0.59
24:VF:4:VAL:HG11	24:VF:252:ILE:HG13	1.84	0.59
25:VO:8:GLN:NE2	25:VO:13:GLY:O	2.34	0.59
24:WD:271:SER:HA	24:WD:302:MET:HG3	1.84	0.59
24:WH:180:ALA:HB3	24:WH:183:GLU:HG3	1.84	0.59
24:WN:177:VAL:HG11	25:WO:327:ASP:HB3	1.84	0.59
25:XE:288:GLU:O	25:XE:291:GLN:NE2	2.35	0.59
24:XL:133:GLN:HG2	24:XL:252:ILE:HB	1.84	0.59
40:Y6:132:ILE:HG21	40:Y6:160:VAL:HG11	1.83	0.59
24:YD:292:THR:HG1	24:YD:319:TYR:HH	1.50	0.59
25:YI:180:VAL:HG23	25:YI:184:ASN:HD21	1.67	0.59
2:1D:2047:SER:HB3	2:1D:2109:CYS:HB3	1.84	0.59
18:C3:552:ASP:O	18:C3:1461:ARG:NH1	2.35	0.59
20:E2:397:PRO:O	24:VB:338:LYS:NZ	2.32	0.59
19:H1:184:LYS:HE2	19:H1:225:LEU:HD11	1.83	0.59
19:J2:164:VAL:HG21	19:J2:201:LEU:HD11	1.85	0.59
19:K3:137:PHE:O	19:K3:142:LYS:NZ	2.36	0.59
25:NO:54:ALA:HA	25:OQ:283:ALA:HB2	1.83	0.59
25:OM:263:LEU:HD11	25:OM:421:GLU:HG3	1.84	0.59
25:PK:11:GLN:NE2	25:PK:69:GLU:OE2	2.35	0.59
25:PM:391:ARG:NH2	24:PN:439:SER:OG	2.33	0.59
24:QD:259:LEU:HD11	24:QD:316:CYS:HB2	1.83	0.59
24:QD:272:TYR:HB3	24:QD:275:ILE:HD11	1.83	0.59
25:QG:131:GLN:HE22	25:QG:250:LEU:HB2	1.67	0.59
25:QK:324:LYS:O	25:QK:328:GLU:N	2.28	0.59
24:RN:271:SER:OG	24:RN:301:MET:SD	2.59	0.59
24:SL:27:GLU:OE1	24:SL:243:ARG:NH1	2.33	0.59
24:TF:401:LYS:HE3	25:TG:344:TRP:HB2	1.85	0.59
25:TO:16:ILE:HD11	25:TO:229:ILE:HB	1.83	0.59
24:XD:65:CYS:O	24:XD:91:GLN:NE2	2.35	0.59
24:YD:272:TYR:HB3	24:YD:275:ILE:HD11	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:Z2:568:LEU:HD11	41:Z2:612:ILE:HG13	1.84	0.59
25:ZK:397:TRP:HE1	24:ZL:260:VAL:HG23	1.67	0.59
2:1A:1799:VAL:HB	2:1A:1917:LEU:HD23	1.84	0.59
18:C0:1046:ARG:HG2	18:C0:1063:GLU:HG3	1.83	0.59
18:C2:792:GLU:HG2	18:C2:903:ARG:HH12	1.67	0.59
19:G1:218:VAL:O	19:G1:226:LYS:NZ	2.36	0.59
19:G4:324:SER:HB3	19:G4:327:LEU:HG	1.83	0.59
19:I0:72:SER:HB3	19:I0:75:LEU:HD23	1.84	0.59
19:J1:253:PHE:HA	19:J1:256:ILE:HD12	1.84	0.59
24:OF:73:THR:OG1	25:OG:247:ASN:ND2	2.36	0.59
25:OI:7:ILE:HB	25:OI:135:VAL:HG12	1.85	0.59
28:Q1:3198:ALA:HB2	29:R1:78:TYR:HD2	1.67	0.59
25:QC:176:SER:OG	25:QC:178:THR:O	2.20	0.59
25:QM:7:ILE:HB	25:QM:135:VAL:HG12	1.84	0.59
25:SI:237:THR:OG1	25:SI:241:ARG:NH1	2.35	0.59
25:TI:164:MET:HB3	25:TI:197:ASP:H	1.65	0.59
24:VB:177:VAL:HG22	25:VC:331:LEU:HD22	1.84	0.59
25:VE:237:THR:HG23	25:VE:241:ARG:HE	1.67	0.59
24:VH:272:TYR:HB3	24:VH:275:ILE:HD11	1.84	0.59
25:VK:31:ASP:OD2	25:VK:37:HIS:ND1	2.35	0.59
25:WG:16:ILE:HD11	25:WG:229:ILE:HB	1.83	0.59
24:WL:272:TYR:HB3	24:WL:275:ILE:HD11	1.83	0.59
24:WN:36:MET:HG2	24:WN:40:LYS:HE2	1.85	0.59
25:XA:313:ALA:HB3	25:XA:349:VAL:HG22	1.83	0.59
24:XB:176:GLN:HG2	24:XB:177:VAL:HG23	1.83	0.59
24:XB:316:CYS:HA	24:XB:352:LYS:HB3	1.84	0.59
40:Y2:287:ASP:HA	40:Y2:337:GLU:HB3	1.84	0.59
40:Y4:117:ILE:HG21	40:Y4:156:VAL:HG21	1.84	0.59
41:Z1:73:ARG:O	41:Z1:77:ARG:NH1	2.35	0.59
41:Z3:77:ARG:NH2	41:Z3:232:THR:OG1	2.35	0.59
24:ZF:53:PHE:O	24:ZF:64:ARG:NH1	2.35	0.59
24:ZH:76:ASP:OD2	25:ZI:46:ARG:NH2	2.35	0.59
24:ZP:271:SER:OG	24:ZP:301:MET:SD	2.61	0.59
18:C0:1667:TRP:O	18:C0:1748:LYS:NZ	2.36	0.59
19:D4:48:PRO:HB3	19:D5:47:ARG:HH12	1.67	0.59
19:G0:380:LEU:HD13	19:G0:383:LEU:HD23	1.84	0.59
19:G2:161:GLN:HA	19:G2:164:VAL:HG12	1.84	0.59
19:G4:387:GLU:OE1	19:G4:397:LYS:NZ	2.32	0.59
19:I0:185:ARG:NH2	19:I0:222:ASP:OD2	2.36	0.59
19:J3:268:LYS:HB3	19:J3:301:TYR:HE1	1.67	0.59
19:K0:134:LEU:O	19:K0:142:LYS:NZ	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:NG:8:GLN:NE2	25:NG:13:GLY:O	2.35	0.59
24:OH:56:THR:HG22	24:PH:285:GLN:HB2	1.85	0.59
24:OJ:264:ARG:NH1	24:OJ:431:ASP:OD2	2.35	0.59
25:PK:304:ASP:OD1	25:PK:306:ARG:NH1	2.35	0.59
28:Q1:919:SER:OG	28:Q1:922:SER:OG	2.20	0.59
24:QD:240:ALA:HA	24:QD:243:ARG:HE	1.68	0.59
24:QH:101:ASN:HD22	24:QH:143:GLY:HA2	1.67	0.59
24:SJ:273:ALA:HB3	24:SJ:375:VAL:H	1.67	0.59
24:TD:325:PRO:O	24:TD:329:ASN:ND2	2.35	0.59
24:TH:170:THR:HG21	24:TH:194:LEU:HD21	1.84	0.59
25:TI:260:PHE:HB2	25:TI:263:LEU:HD13	1.85	0.59
24:TJ:306:ASP:OD2	24:TJ:308:ARG:NH1	2.35	0.59
25:VO:256:ASN:HD22	25:VO:350:LYS:HD3	1.68	0.59
24:WB:127:ASP:OD2	24:XB:293:ASN:ND2	2.36	0.59
24:WH:71:GLU:HB2	24:WH:98:ASP:HB3	1.85	0.59
25:WI:396:HIS:HA	25:WI:399:THR:HG22	1.84	0.59
25:WK:49:VAL:HG11	25:WK:241:ARG:HG2	1.84	0.59
25:WK:325:GLU:HA	25:WK:328:GLU:HG2	1.83	0.59
39:X2:202:ARG:NH2	40:Y4:463:GLU:O	2.36	0.59
25:XC:27:GLU:HA	25:XC:359:LYS:HE2	1.85	0.59
25:XI:25:SER:HB2	25:XI:30:ILE:HB	1.85	0.59
25:XK:7:ILE:HB	25:XK:135:VAL:HG12	1.85	0.59
24:XN:271:SER:HB2	24:XN:377:MET:HB3	1.85	0.59
40:Y5:437:ILE:HD13	40:Y5:454:LEU:HD11	1.85	0.59
25:YG:135:VAL:HG21	25:YG:152:ILE:HD11	1.84	0.59
25:YO:423:GLN:NE2	25:YO:427:ASP:OD2	2.36	0.59
2:1A:1978:ASP:HB3	2:1A:1983:HIS:HE1	1.68	0.59
2:1C:2156:ILE:HG22	2:1C:2300:VAL:HG22	1.84	0.59
2:1D:1365:ASP:HB2	2:1D:1403:LEU:HD23	1.85	0.59
15:9E:974:VAL:H	15:9E:1071:THR:HA	1.67	0.59
19:H1:50:LEU:O	19:H1:58:GLN:NE2	2.35	0.59
19:J0:268:LYS:HB3	19:J0:301:TYR:HE1	1.66	0.59
24:NH:170:THR:HG21	24:NH:194:LEU:HD21	1.84	0.59
25:NK:237:THR:HG23	25:NK:241:ARG:HH11	1.68	0.59
25:OC:202:LEU:HD23	25:OC:229:ILE:HD12	1.84	0.59
25:OI:16:ILE:HD11	25:OI:229:ILE:HG21	1.84	0.59
25:OM:21:TRP:HA	25:OM:24:VAL:HG12	1.83	0.59
25:OO:2:ARG:HB3	25:OO:131:GLN:HB2	1.84	0.59
25:QG:130:LEU:O	25:QG:162:ARG:NH2	2.35	0.59
25:QQ:8:GLN:HG2	25:QQ:17:GLY:HA3	1.84	0.59
25:RC:235:GLY:HA3	25:RC:366:THR:HG21	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:RH:254:GLU:OE2	24:RH:258:ASN:ND2	2.36	0.59
25:RI:17:GLY:HA2	25:RI:20:PHE:HB3	1.85	0.59
25:RK:60:VAL:HG21	25:RK:86:ARG:HH11	1.68	0.59
25:RO:165:LEU:HB2	25:RO:250:LEU:HD21	1.84	0.59
30:S0:112:GLY:HA2	24:VN:47:ASP:HB2	1.84	0.59
25:SE:396:HIS:HA	25:SE:399:THR:HG22	1.84	0.59
25:SI:128:ASP:OD2	25:SI:129:CYS:N	2.35	0.59
25:SM:19:LYS:NZ	25:SM:223:GLY:O	2.35	0.59
24:SN:144:GLY:O	24:SN:148:GLY:N	2.34	0.59
24:TJ:274:PRO:HD3	24:TJ:291:ILE:HB	1.84	0.59
24:VP:258:ASN:HD22	24:VP:352:LYS:HD3	1.68	0.59
39:X2:285:ARG:HD2	39:X2:309:LEU:HG	1.84	0.59
25:XM:113:ILE:HG13	25:XM:150:LEU:HD22	1.84	0.59
25:XO:16:ILE:HD11	25:XO:229:ILE:HG13	1.85	0.59
40:Y5:41:GLN:HA	40:Y5:72:LYS:HE3	1.85	0.59
25:YK:107:THR:OG1	25:YK:108:GLU:OE1	2.20	0.59
24:YL:221:ARG:HB3	25:YM:322:SER:HB2	1.85	0.59
8:3C:178:ILE:HA	25:NE:399:THR:HG21	1.84	0.59
16:A4:31:ARG:NH1	25:XA:417:ASP:OD1	2.36	0.59
17:B1:302:LEU:HD11	24:QN:430:LYS:HD3	1.85	0.59
18:C3:597:ALA:HB3	18:C3:824:VAL:HG22	1.84	0.59
19:D3:253:PHE:HA	19:D3:256:ILE:HD12	1.83	0.59
20:E1:351:ARG:HG2	23:N3:59:LYS:HA	1.84	0.59
19:H0:220:ASN:O	19:H0:226:LYS:NZ	2.34	0.59
19:H1:210:ALA:O	19:H1:214:LEU:HB2	2.02	0.59
19:I0:108:ARG:HD3	19:I0:147:TRP:HB3	1.85	0.59
25:NO:32:PRO:O	25:NO:83:GLN:NE2	2.35	0.59
25:OO:100:ASN:ND2	25:OO:397:TRP:O	2.35	0.59
24:PD:320:ARG:NH2	24:PD:358:GLN:OE1	2.36	0.59
24:PN:191:THR:HA	24:PN:194:LEU:HG	1.85	0.59
28:Q1:627:ALA:HB3	28:Q1:630:GLN:HG3	1.85	0.59
25:QE:320:ARG:HH22	37:W9:178:UNK:HA	1.68	0.59
24:RH:318:MET:HB2	24:RH:376:CYS:HB3	1.84	0.59
24:TN:6:SER:HA	24:TN:136:LEU:HB2	1.84	0.59
24:WF:211:ASP:HB3	24:WF:215:ARG:HH12	1.66	0.59
25:WG:248:ALA:HA	25:WG:252:LYS:HD2	1.84	0.59
25:XC:410:GLU:O	25:XC:413:SER:OG	2.18	0.59
25:XM:86:ARG:NH1	25:XM:89:ASN:OD1	2.35	0.59
40:Y6:416:ARG:HE	40:Y6:417:SER:H	1.51	0.59
24:YH:27:GLU:OE1	24:YH:243:ARG:NH2	2.35	0.59
2:1C:1533:ARG:HH22	2:1C:1535:VAL:HG23	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1C:2452:ARG:NH2	18:C2:1206:ASP:O	2.35	0.59
18:C3:153:GLU:OE1	18:C3:157:ARG:NH2	2.36	0.59
18:C3:1232:LEU:HD23	18:C3:1238:ALA:HB2	1.85	0.59
18:C4:20:ASN:HB3	18:C4:23:GLN:HE22	1.67	0.59
19:D5:231:CYS:O	19:D5:235:GLN:NE2	2.36	0.59
21:F2:78:CYS:SG	21:F2:119:ARG:NH2	2.76	0.59
19:G1:185:ARG:HD3	19:G1:224:LYS:HB2	1.84	0.59
19:G4:241:VAL:HG12	19:G4:281:HIS:HB3	1.84	0.59
19:H6:17:ARG:NH2	19:H6:52:ASP:OD2	2.36	0.59
19:L1:151:TYR:O	19:L1:155:HIS:ND1	2.35	0.59
19:L1:397:LYS:HD2	19:L1:401:ARG:HH12	1.68	0.59
23:N1:36:VAL:HG21	23:N1:77:ILE:HG23	1.84	0.59
24:OD:407:TRP:HH2	25:OE:258:ILE:HB	1.68	0.59
25:OG:396:HIS:HA	25:OG:399:THR:HG22	1.85	0.59
28:Q0:2267:LYS:NZ	28:Q0:2359:MET:SD	2.76	0.59
24:QF:271:SER:HB2	24:QF:377:MET:HB3	1.85	0.59
25:RC:16:ILE:HD11	25:RC:229:ILE:HB	1.84	0.59
25:RI:218:THR:O	24:RJ:326:LYS:NZ	2.32	0.59
32:T1:489:PRO:HA	32:T1:492:PHE:HB2	1.84	0.59
24:UD:222:PRO:O	25:UE:322:SER:OG	2.19	0.59
24:WB:89:PRO:HD3	24:XB:283:HIS:HD2	1.68	0.59
25:WG:372:THR:HG21	25:WG:426:GLN:HB3	1.84	0.59
24:XJ:192:HIS:ND1	24:XJ:424:ASP:OD1	2.31	0.59
40:Y6:121:LEU:HD22	40:Y6:132:ILE:HD11	1.83	0.59
41:Z1:447:GLN:HE22	41:Z1:464:LYS:HE2	1.67	0.59
25:ZO:325:GLU:HA	25:ZO:328:GLU:HG2	1.85	0.59
17:B2:303:GLU:HA	24:QF:264:ARG:HH22	1.68	0.59
18:C0:546:TYR:O	18:C0:1454:ARG:NH1	2.36	0.59
18:C3:353:LYS:HA	21:F3:102:PHE:HE2	1.67	0.59
18:C3:955:ALA:O	18:C3:959:HIS:ND1	2.32	0.59
19:G1:108:ARG:HB2	19:G1:148:THR:HG22	1.85	0.59
19:I0:185:ARG:HE	19:I0:224:LYS:HB2	1.67	0.59
19:L3:262:PHE:O	19:L3:268:LYS:NZ	2.36	0.59
24:ND:177:VAL:HG22	25:NE:331:LEU:HD22	1.84	0.59
25:NO:176:SER:OG	25:NO:178:THR:O	2.21	0.59
25:OG:2:ARG:HB3	25:OG:131:GLN:HB2	1.83	0.59
24:OH:229:ARG:HD2	24:OH:363:VAL:HG11	1.84	0.59
25:OK:396:HIS:HA	25:OK:399:THR:HG22	1.85	0.59
25:OM:301:CYS:SG	25:OM:302:ALA:N	2.76	0.59
25:QQ:379:LYS:HB3	25:QQ:419:VAL:HG21	1.83	0.59
24:RL:390:ARG:HH12	24:RL:394:LYS:HE3	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:RN:76:ASP:HA	24:RN:79:ARG:HB2	1.85	0.59
25:SE:272:PRO:HG3	25:SE:364:SER:HA	1.85	0.59
24:SJ:226:ASN:ND2	24:SJ:367:ASP:OD2	2.36	0.59
25:SM:7:ILE:HB	25:SM:135:VAL:HG12	1.85	0.59
25:TK:253:LEU:HD11	25:TK:316:LEU:HD21	1.83	0.59
24:TP:335:ILE:HD13	24:TP:338:LYS:HZ1	1.66	0.59
25:UO:130:LEU:HB2	25:UO:162:ARG:HH11	1.68	0.59
24:VD:71:GLU:HB2	24:VD:98:ASP:HB3	1.84	0.59
24:WD:292:THR:HG1	24:WD:319:TYR:HH	1.47	0.59
40:Y2:229:GLU:O	40:Y2:233:ALA:N	2.34	0.59
25:YM:237:THR:HG23	25:YM:241:ARG:HE	1.68	0.59
2:1B:1338:ARG:HH12	2:1B:1340:ILE:HG12	1.67	0.58
17:B1:372:GLU:OE2	24:SN:390:ARG:NH1	2.36	0.58
18:C4:92:ARG:HH12	21:F3:79:LYS:HA	1.68	0.58
19:K2:93:SER:OG	19:K2:129:SER:OG	2.18	0.58
19:L1:287:GLN:HA	19:L1:290:VAL:HG22	1.85	0.58
22:M0:968:ALA:HB3	22:M0:971:LEU:HD23	1.85	0.58
25:QE:342:VAL:HG12	25:QE:348:ASN:HD21	1.69	0.58
25:QI:52:ASN:ND2	25:QI:123:GLU:OE2	2.36	0.58
24:QL:76:ASP:OD2	25:QM:46:ARG:NH2	2.36	0.58
29:R0:175:VAL:HG21	29:R0:195:LEU:HD22	1.85	0.58
25:RO:397:TRP:HE1	24:RP:260:VAL:HB	1.68	0.58
24:SF:271:SER:OG	24:SF:301:MET:SD	2.60	0.58
24:VD:219:ILE:HG13	24:VD:222:PRO:HD3	1.85	0.58
25:VO:292:GLN:O	25:VO:298:ASN:ND2	2.29	0.58
24:WJ:90:GLU:OE1	24:WJ:121:ARG:NH1	2.36	0.58
25:XI:33:THR:O	25:XI:58:ARG:NH1	2.36	0.58
40:Y6:426:ALA:HB1	40:Y6:454:LEU:HB2	1.85	0.58
40:Y7:415:HIS:HD2	40:Y7:439:THR:HG23	1.68	0.58
25:YE:345:ILE:O	25:YE:348:ASN:ND2	2.36	0.58
24:YJ:272:TYR:HB3	24:YJ:275:ILE:HD11	1.85	0.58
41:Z1:559:ILE:HD11	41:Z1:576:MET:HG3	1.85	0.58
24:ZB:108:TYR:O	24:ZB:112:LYS:NZ	2.31	0.58
2:1B:2054:ARG:O	18:C1:1585:ARG:NH1	2.36	0.58
2:1B:2055:ALA:HB1	18:C1:1588:ALA:HB2	1.85	0.58
2:1C:1539:LYS:O	2:1C:2049:ASN:ND2	2.36	0.58
17:B0:550:ARG:HA	17:B0:553:VAL:HG12	1.85	0.58
18:C0:1662:LEU:HD13	18:C0:1667:TRP:HB2	1.84	0.58
18:C1:251:LEU:HD13	18:C1:254:LYS:HE3	1.84	0.58
19:G0:253:PHE:HD2	19:G0:292:ASN:HD21	1.51	0.58
19:G4:138:ASP:HB3	19:G4:141:VAL:HG22	1.83	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:H0:182:SER:HA	19:H0:185:ARG:HG2	1.85	0.58
19:H3:349:GLU:HG3	19:H3:352:LEU:HD12	1.84	0.58
19:I1:436:GLN:HA	19:I1:443:ASN:HA	1.85	0.58
19:K2:251:GLU:O	19:K2:255:LYS:NZ	2.31	0.58
24:NF:121:ARG:HE	24:NF:124:LYS:HD3	1.68	0.58
28:Q0:538:GLY:HA3	28:Q0:628:PRO:HD2	1.85	0.58
28:Q1:2536:VAL:HG11	28:Q1:2570:ALA:HB2	1.85	0.58
25:QC:257:LEU:HD21	25:QC:314:SER:HB2	1.84	0.58
24:QN:259:LEU:HD21	24:QN:316:CYS:HB2	1.84	0.58
24:RD:275:ILE:HD12	24:RD:368:LEU:HD11	1.85	0.58
24:RL:363:VAL:HG23	24:RL:366:GLY:HA3	1.85	0.58
24:SF:101:ASN:OD1	25:SG:252:LYS:NZ	2.28	0.58
24:TJ:387:ILE:HD13	24:TJ:390:ARG:HH21	1.67	0.58
24:TP:402:ARG:NH1	24:TP:415:GLU:OE2	2.36	0.58
24:UH:56:THR:HG22	24:VH:285:GLN:HB2	1.85	0.58
24:UH:90:GLU:HG3	24:UH:121:ARG:HD3	1.84	0.58
25:VM:77:ARG:HH21	25:VM:90:PHE:HD2	1.51	0.58
25:WK:404:ASP:OD2	25:WK:405:GLU:N	2.36	0.58
24:WL:164:LYS:O	24:WL:166:LYS:NZ	2.35	0.58
25:YG:60:VAL:HG21	25:YG:86:ARG:HG3	1.85	0.58
24:YP:107:HIS:O	24:YP:112:LYS:NZ	2.34	0.58
18:C0:1776:CYS:SG	18:C0:1777:ALA:N	2.76	0.58
19:D2:88:LEU:HD12	19:D2:103:ALA:HA	1.85	0.58
20:E3:336:PRO:HG3	23:N1:107:SER:HB3	1.85	0.58
19:H0:29:LYS:HA	19:H0:67:ARG:HE	1.69	0.58
19:H2:95:GLN:H	19:H2:100:LYS:HZ1	1.51	0.58
19:I1:237:ALA:HB2	19:I1:247:VAL:HG21	1.86	0.58
19:K2:156:ASN:HA	19:K2:197:HIS:CE1	2.38	0.58
19:K3:306:ALA:O	19:K3:310:ARG:NH1	2.36	0.58
25:NC:161:ASP:OD2	25:NC:162:ARG:NH2	2.37	0.58
24:NF:267:PHE:HB2	24:NF:384:ILE:HD12	1.85	0.58
24:NH:298:PRO:HA	24:NH:301:MET:HG2	1.85	0.58
24:NL:224:TYR:HA	24:NL:227:LEU:HD23	1.85	0.58
25:OI:334:GLN:HE21	25:OI:349:VAL:HG13	1.67	0.58
28:Q0:11:CYS:SG	28:Q0:68:ARG:NH1	2.76	0.58
24:QD:88:HIS:HB3	24:QD:91:GLN:HB2	1.86	0.58
24:QJ:264:ARG:NH1	24:QJ:431:ASP:OD2	2.36	0.58
24:QJ:318:MET:HB2	24:QJ:376:CYS:HB3	1.85	0.58
25:QM:377:MET:SD	25:QM:380:ARG:NH2	2.70	0.58
24:QN:384:ILE:HA	24:QN:387:ILE:HD12	1.85	0.58
25:QO:260:PHE:HB2	25:QO:263:LEU:HD23	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:RD:127:ASP:OD1	24:SD:293:ASN:ND2	2.36	0.58
25:SG:64:ILE:HD11	25:SG:123:GLU:HG3	1.84	0.58
24:SP:271:SER:HB3	24:SP:377:MET:HB3	1.84	0.58
25:UG:375:GLN:HB3	25:UG:422:TYR:HD2	1.68	0.58
24:UJ:71:GLU:HB2	24:UJ:98:ASP:HB3	1.84	0.58
24:UN:259:LEU:HD23	24:UN:268:MET:HG2	1.84	0.58
24:VL:307:PRO:HB3	24:VL:312:TYR:HE1	1.67	0.58
24:WB:219:ILE:HG13	24:WB:222:PRO:HG3	1.85	0.58
24:WD:195:LEU:HD21	24:WD:428:LEU:HD22	1.84	0.58
39:X1:476:GLU:HG2	39:X1:480:ARG:HE	1.67	0.58
25:XE:207:LEU:HB3	25:XE:225:LEU:HD22	1.83	0.58
25:ZG:7:ILE:HB	25:ZG:135:VAL:HG12	1.85	0.58
18:C2:1214:LYS:HD2	18:C2:1518:LEU:HD22	1.84	0.58
19:D4:78:ALA:O	19:D4:82:ASN:CB	2.50	0.58
19:K0:181:LEU:HD13	19:K0:184:LYS:HZ3	1.67	0.58
19:L0:218:VAL:O	19:L0:226:LYS:NZ	2.34	0.58
22:M1:116:TYR:HB2	22:M1:135:ALA:HB3	1.85	0.58
23:N2:16:GLY:HA2	23:N2:19:LYS:HE2	1.85	0.58
24:NJ:268:MET:HG3	24:NJ:380:ASN:HB2	1.84	0.58
25:OK:272:PRO:HG3	25:OK:364:SER:HA	1.84	0.58
24:OL:286:LEU:HD13	24:OL:371:VAL:HG13	1.86	0.58
25:PQ:25:SER:HB2	25:PQ:30:ILE:HB	1.86	0.58
25:PQ:113:ILE:HA	25:PQ:116:VAL:HG12	1.85	0.58
28:Q0:2166:LEU:HD12	28:Q0:2204:ARG:HG2	1.85	0.58
28:Q0:3114:ARG:CZ	29:R0:76:ARG:HH12	2.16	0.58
28:Q1:2867:LYS:NZ	28:Q1:3005:ASP:O	2.31	0.58
24:QL:51:THR:HG21	24:QL:243:ARG:HG2	1.85	0.58
25:QO:268:VAL:HG12	25:QO:368:ILE:HA	1.83	0.58
25:RM:385:PHE:HZ	25:RM:408:PHE:HB3	1.68	0.58
24:SF:76:ASP:OD2	25:SG:46:ARG:NH2	2.36	0.58
25:SG:397:TRP:HE1	24:SH:260:VAL:HG13	1.69	0.58
24:SN:271:SER:HB2	24:SN:377:MET:HB3	1.85	0.58
24:SP:71:GLU:HB2	24:SP:98:ASP:HB3	1.85	0.58
25:TC:396:HIS:HA	25:TC:399:THR:HG22	1.85	0.58
24:TN:259:LEU:HD21	24:TN:316:CYS:HB2	1.86	0.58
24:VB:101:ASN:OD1	25:VC:252:LYS:NZ	2.37	0.58
25:VE:113:ILE:HG13	25:VE:150:LEU:HD23	1.86	0.58
25:WE:48:ASN:O	25:WE:62:ARG:NH1	2.34	0.58
25:WO:137:HIS:NE2	25:WO:166:THR:OG1	2.37	0.58
24:XB:259:LEU:HD11	24:XB:316:CYS:HB2	1.84	0.58
24:XD:208:ALA:HB2	24:XD:304:LYS:HG2	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:XG:121:ARG:NH1	25:XG:158:GLU:OE1	2.36	0.58
25:XK:257:LEU:HD11	25:XK:314:SER:HB2	1.86	0.58
25:XM:238:CYS:HB2	25:XM:318:ARG:HH11	1.68	0.58
40:Y6:30:GLU:OE2	40:Y7:71:ARG:NH1	2.36	0.58
24:YN:259:LEU:HD11	24:YN:316:CYS:HB2	1.85	0.58
25:ZC:99:ASN:ND2	24:ZD:254:GLU:OE2	2.37	0.58
24:ZD:272:TYR:HD2	24:ZD:275:ILE:HG12	1.68	0.58
25:ZG:345:ILE:O	25:ZG:348:ASN:ND2	2.35	0.58
24:ZL:402:ARG:NH2	24:ZL:415:GLU:OE1	2.36	0.58
25:ZO:7:ILE:HB	25:ZO:135:VAL:HG12	1.86	0.58
18:C1:201:ARG:NH1	25:VO:401:GLU:O	2.36	0.58
18:C2:1358:VAL:HA	18:C2:1386:LYS:HE3	1.85	0.58
18:C2:1801:ARG:HD3	18:C2:1840:TRP:HE1	1.67	0.58
19:D0:260:LEU:HD12	19:D0:268:LYS:HB2	1.85	0.58
19:G1:324:SER:HB3	19:G1:327:LEU:HD13	1.85	0.58
23:N0:43:LEU:HD11	23:N0:88:LEU:HG	1.86	0.58
24:OF:64:ARG:HG3	24:OF:125:LEU:HD12	1.86	0.58
24:OJ:414:GLU:HG3	24:OJ:416:GLY:H	1.69	0.58
25:OM:47:ILE:HG22	25:OM:51:PHE:HB2	1.85	0.58
25:OO:25:SER:HB2	25:OO:30:ILE:HB	1.86	0.58
24:OP:415:GLU:HA	24:OP:418:PHE:HD2	1.67	0.58
25:OQ:87:PRO:HD3	25:PQ:281:TYR:HD1	1.68	0.58
25:PM:334:GLN:NE2	25:PM:347:ASN:OD1	2.36	0.58
24:PN:286:LEU:O	24:PN:373:ARG:NH2	2.37	0.58
25:PO:68:LEU:HD23	25:PO:143:THR:HG23	1.84	0.58
28:Q1:2050:LEU:HD11	28:Q1:2084:LEU:HD13	1.86	0.58
24:QP:318:MET:HB2	24:QP:376:CYS:HB3	1.85	0.58
25:SG:234:SER:OG	25:SG:241:ARG:NH2	2.37	0.58
24:TF:137:VAL:HG21	24:TF:154:LEU:HD21	1.86	0.58
24:TL:268:MET:SD	24:TL:380:ASN:ND2	2.75	0.58
24:TP:164:LYS:O	24:TP:166:LYS:NZ	2.37	0.58
24:UD:89:PRO:HD2	24:VD:280:LYS:HZ3	1.69	0.58
25:UI:40:SER:HB2	25:UI:43:GLN:HG3	1.84	0.58
25:VE:7:ILE:HB	25:VE:135:VAL:HG12	1.85	0.58
24:VF:402:ARG:HH21	24:VF:409:VAL:HG21	1.69	0.58
39:X3:285:ARG:HD2	39:X3:309:LEU:HG	1.86	0.58
25:XK:252:LYS:HA	25:XK:255:VAL:HG12	1.86	0.58
40:Y1:140:ASP:O	40:Y1:147:LYS:NZ	2.33	0.58
40:Y4:229:GLU:O	40:Y4:233:ALA:N	2.34	0.58
40:Y6:79:VAL:HG12	40:Y6:154:LEU:HD22	1.84	0.58
40:Y7:72:LYS:HE2	40:Y7:167:GLU:HA	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:YC:396:HIS:HA	25:YC:399:THR:HG22	1.84	0.58
25:YG:313:ALA:HB3	25:YG:349:VAL:HG22	1.85	0.58
25:YO:99:ASN:ND2	46:YO:501:GDP:O1B	2.37	0.58
2:1B:1268:ASN:HA	2:1B:1323:ASP:HB2	1.85	0.58
2:1C:1249:SER:N	43:1C:2602:ANP:O3A	2.36	0.58
18:C0:1623:GLU:O	18:C0:1627:HIS:HB2	2.04	0.58
18:C3:1897:THR:OG1	18:C3:1898:ALA:N	2.36	0.58
20:E2:388:VAL:HG21	24:VB:215:ARG:HH12	1.67	0.58
20:E3:354:VAL:HB	23:N1:58:LYS:HD2	1.85	0.58
19:G1:237:ALA:O	19:G1:281:HIS:NE2	2.37	0.58
19:H4:24:VAL:HA	19:H4:27:MET:HG2	1.86	0.58
19:K1:277:GLU:HA	19:K1:280:LYS:HG2	1.85	0.58
25:NG:309:ARG:NH1	25:NG:426:GLN:O	2.36	0.58
25:NG:325:GLU:HA	25:NG:328:GLU:HG3	1.84	0.58
25:NK:268:VAL:HG12	25:NK:368:ILE:HA	1.84	0.58
25:OC:113:ILE:HG13	25:OC:150:LEU:HD23	1.86	0.58
25:OC:290:THR:HA	25:OC:293:MET:HG2	1.85	0.58
25:PM:375:GLN:HE22	25:PM:423:GLN:HB3	1.69	0.58
28:Q0:2307:SER:OG	28:Q0:2700:ARG:NH1	2.35	0.58
28:Q1:2620:LEU:HD13	28:Q1:3052:SER:HB2	1.85	0.58
24:QF:272:TYR:HB3	24:QF:275:ILE:HD11	1.84	0.58
25:QG:239:CYS:HB3	25:QG:247:ASN:HB2	1.86	0.58
24:RJ:229:ARG:HD3	24:RJ:363:VAL:HG21	1.84	0.58
24:UH:240:ALA:HA	24:UH:243:ARG:HE	1.68	0.58
25:UI:272:PRO:HG3	25:UI:364:SER:HA	1.85	0.58
25:UO:306:ARG:NH1	36:W3:70:UNK:O	2.36	0.58
24:VB:214:ARG:HH21	24:VB:215:ARG:HH21	1.52	0.58
24:VL:195:LEU:HD11	24:VL:428:LEU:HD22	1.86	0.58
24:WF:298:PRO:HA	24:WF:301:MET:HG2	1.84	0.58
24:WH:127:ASP:OD2	24:XH:293:ASN:ND2	2.36	0.58
24:WH:398:MET:HG3	25:WI:346:PRO:HD2	1.86	0.58
25:XG:7:ILE:HB	25:XG:135:VAL:HG12	1.84	0.58
40:Y1:79:VAL:HG23	40:Y1:154:LEU:HD23	1.84	0.58
40:Y1:173:TYR:HB3	40:Y1:427:ASP:HB2	1.86	0.58
40:Y4:215:VAL:HG11	40:Y4:283:LYS:HD3	1.85	0.58
40:Y7:445:SER:HA	40:Y7:448:ASN:HB2	1.84	0.58
25:YM:198:GLU:HA	25:YM:264:HIS:HB2	1.83	0.58
24:YN:268:MET:SD	24:YN:380:ASN:ND2	2.77	0.58
24:ZB:318:MET:HB2	24:ZB:376:CYS:HB3	1.85	0.58
25:ZE:40:SER:HB3	25:ZE:43:GLN:HB2	1.84	0.58
18:C0:1900:GLN:O	18:C0:1904:SER:HB3	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:D1:89:VAL:HA	19:D1:92:LEU:HB2	1.86	0.58
19:H3:265:GLU:HA	19:H3:268:LYS:HG2	1.86	0.58
19:H3:387:GLU:OE1	19:H3:397:LYS:NZ	2.37	0.58
19:J1:70:ASN:O	19:J1:112:ARG:NH2	2.37	0.58
22:M0:759:ASP:O	28:Q0:1631:ARG:NH1	2.37	0.58
25:NC:257:LEU:O	25:NC:370:ASN:ND2	2.37	0.58
25:OK:7:ILE:HB	25:OK:135:VAL:HG12	1.86	0.58
25:PG:3:GLU:HA	25:PG:49:VAL:HA	1.83	0.58
25:PQ:309:ARG:NH2	25:PQ:426:GLN:O	2.36	0.58
25:QC:21:TRP:HA	25:QC:24:VAL:HG12	1.85	0.58
25:RK:3:GLU:HA	25:RK:49:VAL:HA	1.85	0.58
24:RL:273:ALA:HB3	24:RL:375:VAL:HB	1.86	0.58
24:RP:101:ASN:HA	24:RP:144:GLY:H	1.68	0.58
25:TG:219:THR:HB	24:TH:324:VAL:HG11	1.85	0.58
24:TL:71:GLU:OE2	25:TM:2:ARG:NH1	2.36	0.58
24:TN:268:MET:SD	24:TN:380:ASN:ND2	2.77	0.58
25:UM:163:MET:HG2	25:UM:251:ARG:HH21	1.69	0.58
25:VI:67:ASP:OD2	25:VI:72:THR:OG1	2.21	0.58
39:X0:150:ARG:HA	39:X0:172:HIS:HB2	1.86	0.58
25:XA:31:ASP:OD2	25:XA:37:HIS:HE1	1.85	0.58
25:XI:268:VAL:HG12	25:XI:368:ILE:HA	1.84	0.58
40:Y0:199:SER:HA	40:Y0:305:LYS:HD3	1.85	0.58
25:YG:204:ASN:OD1	46:YG:501:GDP:O2'	2.22	0.58
41:Z3:541:LYS:HE3	41:Z3:592:MET:HA	1.85	0.58
25:ZM:207:LEU:HB3	25:ZM:225:LEU:HD22	1.83	0.58
25:ZO:272:PRO:HG3	25:ZO:364:SER:HA	1.85	0.58
2:1D:2031:ARG:NH2	2:1D:2244:ASP:OD2	2.34	0.58
11:5B:318:ALA:HB1	11:5B:347:GLY:HA2	1.84	0.58
18:C0:839:ALA:O	18:C0:842:ARG:NH1	2.36	0.58
18:C1:1634:PRO:HB2	18:C1:1637:ALA:HB2	1.84	0.58
19:H0:218:VAL:O	19:H0:226:LYS:NZ	2.34	0.58
19:L0:404:LEU:HA	19:L0:423:ARG:HH11	1.69	0.58
19:L1:269:LYS:HG2	19:L1:309:ASN:HD22	1.69	0.58
22:M1:741:ASP:HA	22:M1:744:LYS:HB2	1.86	0.58
24:OF:407:TRP:HH2	25:OG:258:ILE:HB	1.67	0.58
24:OL:5:ILE:HG12	24:OL:132:LEU:HD21	1.85	0.58
25:PO:208:TYR:HE1	25:PO:225:LEU:HD11	1.68	0.58
24:QD:71:GLU:HG2	24:QD:73:THR:HG22	1.86	0.58
24:QF:402:ARG:HD3	24:QF:405:VAL:HG21	1.86	0.58
24:QL:109:THR:OG1	24:QL:411:GLU:OE1	2.20	0.58
25:QO:244:GLY:N	25:QO:247:ASN:HD21	2.00	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:SJ:56:THR:HG22	24:TJ:285:GLN:HB2	1.86	0.58
24:SP:319:TYR:HB3	24:SP:323:VAL:HG21	1.86	0.58
24:TL:343:PHE:HE2	24:TL:350:GLY:HA3	1.69	0.58
25:TO:130:LEU:O	25:TO:162:ARG:NH1	2.31	0.58
24:UN:194:LEU:O	24:UN:198:THR:OG1	2.20	0.58
24:UP:262:TYR:HB2	24:UP:265:ILE:HG12	1.84	0.58
24:VF:101:ASN:ND2	24:VF:142:GLY:O	2.36	0.58
24:WB:91:GLN:HE21	24:WB:121:ARG:HD2	1.68	0.58
24:WH:6:SER:O	24:WH:65:CYS:HA	2.03	0.58
39:X2:233:GLN:HA	39:X2:254:LEU:HA	1.86	0.58
25:XC:143:THR:OG1	46:XC:501:GDP:O2B	2.22	0.58
24:XF:273:ALA:HB3	24:XF:375:VAL:H	1.68	0.58
25:XG:113:ILE:HD11	25:XG:151:LEU:HB2	1.85	0.58
40:Y0:209:GLU:HB2	40:Y0:287:ASP:HB3	1.85	0.58
40:Y0:416:ARG:HE	40:Y0:417:SER:H	1.52	0.58
40:Y4:358:GLN:HE21	40:Y4:383:ALA:HB3	1.67	0.58
40:Y5:72:LYS:HE2	40:Y5:167:GLU:HA	1.86	0.58
40:Y6:391:ILE:HG23	40:Y6:393:THR:H	1.69	0.58
24:YH:181:VAL:HG23	25:YI:350:LYS:HB2	1.86	0.58
25:YO:4:ILE:HB	25:YO:50:TYR:HE1	1.69	0.58
25:ZE:375:GLN:HB2	25:ZE:419:VAL:HG23	1.84	0.58
24:ZJ:414:GLU:HG2	24:ZJ:416:GLY:H	1.69	0.58
18:C3:337:ARG:HA	18:C3:340:GLU:HG2	1.86	0.58
19:D6:81:GLN:NE2	19:D6:82:ASN:OD1	2.37	0.58
20:E2:88:GLU:OE2	20:E2:115:HIS:ND1	2.35	0.58
19:H7:268:LYS:HB3	19:H7:301:TYR:HE1	1.69	0.58
19:J0:97:ARG:HH12	19:J0:101:GLN:HB2	1.67	0.58
25:NE:313:ALA:HB3	25:NE:349:VAL:HG22	1.85	0.58
24:NL:222:PRO:HG2	25:NM:324:LYS:HE2	1.86	0.58
26:O1:109:LEU:HD12	26:O1:214:ARG:HE	1.67	0.58
25:OE:191:GLN:O	25:OE:195:ASN:ND2	2.36	0.58
25:OK:397:TRP:HE1	24:OL:260:VAL:HB	1.67	0.58
25:QC:220:PRO:HD2	24:QD:326:LYS:HD3	1.86	0.58
25:QE:375:GLN:HB2	25:QE:419:VAL:HG23	1.86	0.58
24:QF:71:GLU:OE2	24:QF:73:THR:OG1	2.21	0.58
24:QH:193:SER:O	24:QH:197:HIS:ND1	2.37	0.58
25:RC:105:HIS:CD2	25:RC:150:LEU:HB2	2.39	0.58
25:RK:11:GLN:HG2	25:RK:72:THR:HG21	1.86	0.58
25:SC:237:THR:HG23	25:SC:241:ARG:HE	1.69	0.58
24:TH:76:ASP:OD2	25:TI:46:ARG:NH2	2.36	0.58
24:TN:71:GLU:HB2	24:TN:98:ASP:HB3	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:TN:305:CYS:HB2	24:TN:387:ILE:HD11	1.84	0.58
24:UF:223:THR:HG22	25:UG:322:SER:HA	1.86	0.58
24:UP:271:SER:HB2	24:UP:377:MET:HB3	1.86	0.58
24:VD:325:PRO:O	24:VD:329:ASN:ND2	2.37	0.58
25:VI:375:GLN:HB2	25:VI:419:VAL:HG23	1.85	0.58
24:VJ:11:GLN:NE2	24:VJ:15:GLN:OE1	2.36	0.58
24:XD:304:LYS:O	24:XD:390:ARG:NH2	2.37	0.58
24:XH:27:GLU:OE1	24:XH:243:ARG:NH1	2.36	0.58
25:XO:301:CYS:SG	25:XO:302:ALA:N	2.77	0.58
40:Y3:415:HIS:ND1	40:Y3:416:ARG:O	2.34	0.58
40:Y5:129:GLN:NE2	40:Y5:157:SER:OG	2.37	0.58
24:YF:50:ASN:O	24:YF:64:ARG:NH1	2.37	0.58
25:YI:372:THR:HG21	25:YI:426:GLN:HB2	1.84	0.58
41:Z3:209:GLY:HA2	41:Z3:235:GLY:HA3	1.85	0.58
2:1B:1801:LEU:HD12	2:1B:1904:ALA:HB2	1.86	0.58
5:2E:260:MET:H	5:2E:310:LEU:H	1.52	0.58
17:B2:356:ARG:HE	26:O1:430:GLN:HB3	1.69	0.58
17:B2:459:VAL:HG23	17:B2:463:ARG:HH22	1.68	0.58
19:H5:10:PHE:O	19:H5:14:GLN:NE2	2.36	0.58
19:J3:324:SER:HB3	19:J3:327:LEU:HD13	1.85	0.58
19:L1:486:ILE:HG12	19:L1:497:GLN:HG3	1.85	0.58
24:OL:226:ASN:ND2	24:OL:367:ASP:OD2	2.37	0.58
24:OL:305:CYS:HB3	24:OL:387:ILE:HD11	1.85	0.58
25:OO:171:PRO:HG3	25:OO:181:GLU:HG2	1.84	0.58
25:PG:7:ILE:HB	25:PG:135:VAL:HG12	1.85	0.58
28:Q0:116:VAL:HG13	28:Q0:156:ALA:HB1	1.85	0.58
28:Q0:1756:ARG:NH2	28:Q0:1865:GLU:OE2	2.37	0.58
25:QE:48:ASN:O	25:QE:62:ARG:NH2	2.37	0.58
24:RP:3:GLU:HA	24:RP:51:THR:HA	1.86	0.58
25:SC:191:GLN:O	25:SC:195:ASN:ND2	2.36	0.58
32:T2:518:LEU:HD23	24:YD:417:GLU:HG2	1.86	0.58
25:TK:12:CYS:SG	25:TK:13:GLY:N	2.77	0.58
25:TK:49:VAL:HG21	25:TK:241:ARG:HG2	1.86	0.58
25:WC:69:GLU:HG2	24:WD:2:ARG:HH12	1.68	0.58
25:WE:122:LYS:NZ	25:XE:291:GLN:OE1	2.36	0.58
24:WF:123:ARG:NH2	24:WF:160:ASP:OD2	2.37	0.58
39:X2:119:VAL:O	39:X2:122:ASN:ND2	2.35	0.58
25:XE:167:PHE:HA	25:XE:200:MET:HB2	1.85	0.58
25:XI:7:ILE:HB	25:XI:135:VAL:HG12	1.86	0.58
25:XM:52:ASN:OD1	25:XM:62:ARG:NH2	2.34	0.58
25:YI:139:LEU:HD12	25:YI:170:VAL:HG12	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:YJ:11:GLN:HE22	24:YJ:15:GLN:HE21	1.50	0.58
25:YM:67:ASP:OD1	25:YM:72:THR:OG1	2.21	0.58
24:YN:76:ASP:OD1	25:YO:46:ARG:NH2	2.34	0.58
25:YO:6:HIS:HD2	25:YO:21:TRP:HE1	1.52	0.58
24:YP:195:LEU:HD12	24:YP:264:ARG:HG2	1.86	0.58
24:YP:271:SER:HB3	24:YP:377:MET:HB3	1.86	0.58
25:ZC:7:ILE:HB	25:ZC:135:VAL:HG12	1.85	0.58
24:ZD:224:TYR:O	24:ZD:228:ASN:ND2	2.25	0.58
24:ZJ:71:GLU:HB2	24:ZJ:98:ASP:HB3	1.86	0.58
2:1A:1335:LEU:HA	2:1A:1338:ARG:HG2	1.86	0.57
2:1B:1575:PRO:HD2	2:1B:1923:ARG:HH21	1.69	0.57
2:1C:854:ALA:HB3	2:1C:866:THR:O	2.04	0.57
18:C1:207:ASN:OD1	18:C1:211:LYS:NZ	2.35	0.57
18:C2:488:ALA:O	18:C2:1479:ARG:NH1	2.37	0.57
18:C2:1175:TYR:OH	18:C2:1454:ARG:NH2	2.37	0.57
18:C3:945:ALA:O	18:C3:949:HIS:ND1	2.33	0.57
19:G1:134:LEU:O	19:G1:142:LYS:NZ	2.37	0.57
19:L3:69:ALA:O	19:L3:113:HIS:NE2	2.32	0.57
23:N2:116:SER:HB2	23:N2:119:VAL:HG22	1.86	0.57
25:NG:257:LEU:HD21	25:NG:314:SER:HB2	1.86	0.57
25:OC:396:HIS:HA	25:OC:399:THR:HG22	1.86	0.57
24:ON:178:SER:OG	24:ON:183:GLU:OE1	2.22	0.57
25:OO:7:ILE:HB	25:OO:135:VAL:HG12	1.85	0.57
25:PK:272:PRO:HG3	25:PK:364:SER:HA	1.84	0.57
24:PL:262:TYR:HB2	24:PL:265:ILE:HG22	1.86	0.57
28:Q0:2086:ARG:NH2	28:Q0:2500:ASP:OD1	2.37	0.57
24:QF:265:ILE:HG22	24:QF:380:ASN:HD21	1.69	0.57
25:QM:263:LEU:HB3	25:QM:370:ASN:HD21	1.68	0.57
25:RG:61:PRO:HD3	25:RG:84:ILE:HG12	1.85	0.57
25:RM:238:CYS:HB3	25:RM:318:ARG:HH21	1.69	0.57
25:SI:318:ARG:HD3	25:SI:358:PRO:HD3	1.86	0.57
24:SL:164:LYS:O	24:SL:166:LYS:NZ	2.37	0.57
24:TJ:407:TRP:HE1	25:TK:258:ILE:HG23	1.68	0.57
33:U0:48:GLU:HA	33:U0:69:LEU:HA	1.85	0.57
24:UF:133:GLN:HG3	24:UF:252:ILE:HG22	1.85	0.57
24:UF:236:SER:OG	24:UF:243:ARG:NH2	2.36	0.57
24:VD:221:ARG:HA	25:VE:324:LYS:HZ1	1.69	0.57
25:VE:191:GLN:O	25:VE:195:ASN:ND2	2.35	0.57
24:VP:88:HIS:HB3	24:VP:91:GLN:HG3	1.86	0.57
24:WJ:271:SER:HB2	24:WJ:377:MET:HB3	1.86	0.57
41:Z1:533:ALA:O	41:Z1:537:GLN:NE2	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:ZI:234:SER:O	25:ZI:241:ARG:NH2	2.37	0.57
24:ZJ:258:ASN:HD22	24:ZJ:258:ASN:C	2.05	0.57
25:ZM:177:ASP:N	25:ZM:181:GLU:OE2	2.37	0.57
2:1A:1299:ASP:HA	2:1A:1302:PHE:HD2	1.69	0.57
2:1B:1935:LEU:HD22	2:1B:1973:LEU:HB3	1.86	0.57
7:2O:156:GLU:HA	9:3O:155:ALA:HB3	1.86	0.57
18:C0:594:LEU:HB3	18:C0:619:LEU:HD21	1.85	0.57
19:D0:46:LEU:HD23	19:D0:49:LEU:HD12	1.86	0.57
19:K1:306:ALA:O	19:K1:310:ARG:NH1	2.37	0.57
25:OE:68:LEU:HD12	25:OE:97:ALA:HB2	1.85	0.57
25:OM:100:ASN:HB3	25:OM:103:LYS:HG2	1.86	0.57
25:PO:315:ALA:HB3	25:PO:351:SER:HA	1.86	0.57
24:QH:155:GLU:OE1	24:QH:197:HIS:NE2	2.37	0.57
24:RD:76:ASP:HA	24:RD:79:ARG:HB2	1.86	0.57
24:SP:259:LEU:HD23	24:SP:268:MET:HG2	1.85	0.57
24:TJ:180:ALA:HB3	24:TJ:183:GLU:HG3	1.84	0.57
24:TP:194:LEU:O	24:TP:198:THR:OG1	2.22	0.57
25:VE:117:LEU:HD11	25:VE:154:LYS:HD2	1.86	0.57
25:WE:320:ARG:HH21	25:WE:355:ASP:HB2	1.69	0.57
25:WK:198:GLU:HA	25:WK:264:HIS:HB2	1.85	0.57
25:XA:48:ASN:O	25:XA:62:ARG:NH2	2.36	0.57
24:XB:265:ILE:HG22	24:XB:380:ASN:HD21	1.69	0.57
25:XE:345:ILE:O	25:XE:348:ASN:ND2	2.37	0.57
24:XL:27:GLU:OE1	24:XL:243:ARG:NH2	2.37	0.57
25:XM:49:VAL:HG21	25:XM:241:ARG:HG2	1.85	0.57
40:Y6:71:ARG:NH2	40:Y6:167:GLU:OE1	2.36	0.57
40:Y7:437:ILE:HD13	40:Y7:454:LEU:HD11	1.86	0.57
24:YD:102:ASN:HB3	24:YD:105:ARG:HB2	1.86	0.57
24:YN:298:PRO:HB3	24:YN:307:PRO:HD2	1.85	0.57
41:Z2:180:PRO:HB2	41:Z2:216:LEU:HD11	1.85	0.57
2:1D:185:ALA:HB2	2:1D:1534:ARG:HH12	1.69	0.57
18:C2:1307:ARG:HH22	18:C2:1332:VAL:H	1.53	0.57
19:D0:397:LYS:HE2	19:D0:401:ARG:HH11	1.68	0.57
19:H5:210:ALA:O	19:H5:214:LEU:CB	2.52	0.57
19:J2:13:TYR:HE1	19:J3:17:ARG:HD3	1.69	0.57
22:M0:724:LEU:HD23	28:Q0:2529:ALA:HB2	1.86	0.57
24:ND:285:GLN:HB2	24:ZD:56:THR:HG22	1.85	0.57
25:NK:391:ARG:HH22	24:NL:435:VAL:HA	1.70	0.57
25:OC:67:ASP:OD2	25:OC:72:THR:OG1	2.22	0.57
25:OC:253:LEU:HD21	25:OC:316:LEU:HD21	1.85	0.57
25:OG:220:PRO:O	24:OH:326:LYS:NZ	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:OI:175:VAL:HG11	24:OJ:329:ASN:HB3	1.86	0.57
28:Q0:1130:VAL:HG12	28:Q0:1825:GLU:HG3	1.86	0.57
28:Q1:297:VAL:HA	28:Q1:300:GLN:HG2	1.86	0.57
24:QP:262:TYR:HB2	24:QP:265:ILE:HG22	1.85	0.57
25:RM:192:LEU:HD22	25:RM:196:ALA:HB2	1.85	0.57
24:RN:170:THR:HG21	24:RN:194:LEU:HD21	1.86	0.57
25:RO:54:ALA:HB3	25:RO:58:ARG:HB3	1.85	0.57
24:SJ:133:GLN:O	24:SJ:165:SER:OG	2.23	0.57
24:TF:31:GLN:OE1	24:TF:35:GLN:NE2	2.37	0.57
24:TP:186:ASN:OD1	24:TP:408:TYR:OH	2.22	0.57
24:VB:318:MET:HB2	24:VB:376:CYS:HB3	1.86	0.57
25:VE:226:ASN:OD1	46:VE:501:GDP:N1	2.31	0.57
24:VJ:47:ASP:HB3	24:VJ:50:ASN:HB2	1.86	0.57
24:VP:273:ALA:HB3	24:VP:375:VAL:H	1.68	0.57
25:WI:278:SER:HA	25:WI:281:TYR:HD2	1.69	0.57
39:X1:96:VAL:HG23	39:X1:118:ASP:HB3	1.85	0.57
40:Y3:134:GLN:HA	40:Y3:137:LYS:HZ3	1.69	0.57
40:Y7:191:SER:HB2	40:Y7:438:LYS:HA	1.86	0.57
24:YL:216:SER:OG	24:YL:275:ILE:O	2.18	0.57
24:ZB:402:ARG:HD3	24:ZB:405:VAL:HG21	1.85	0.57
18:C0:496:ARG:NH2	18:C0:551:GLY:O	2.36	0.57
18:C0:593:PRO:HD2	18:C0:763:ARG:HA	1.86	0.57
18:C3:1217:LEU:HD13	18:C3:1220:ARG:HH12	1.68	0.57
19:D1:183:LEU:HD13	19:D1:186:ILE:HD11	1.87	0.57
19:D2:176:VAL:O	19:D2:184:LYS:NZ	2.36	0.57
19:D4:302:ILE:HD13	19:D4:314:ILE:HD13	1.87	0.57
21:F3:80:VAL:HG11	21:F3:86:ILE:HA	1.86	0.57
19:G1:136:GLU:OE1	19:G1:138:ASP:N	2.31	0.57
19:H0:14:GLN:HA	19:H0:17:ARG:HD2	1.87	0.57
19:H7:42:ALA:O	19:H7:46:LEU:HB2	2.04	0.57
19:K1:226:LYS:HB3	19:K1:267:VAL:HG21	1.85	0.57
19:K2:111:ALA:HB2	19:K2:121:VAL:HG21	1.86	0.57
19:K3:226:LYS:HB3	19:K3:267:VAL:HG21	1.85	0.57
22:M1:212:LEU:HA	22:M1:239:ALA:HB3	1.84	0.57
22:M1:928:ARG:NH1	28:Q1:682:ASP:OD2	2.36	0.57
24:NL:173:PRO:O	24:NL:390:ARG:NH2	2.37	0.57
24:NN:221:ARG:HA	25:NO:324:LYS:HZ1	1.69	0.57
25:OM:67:ASP:OD1	25:OM:68:LEU:N	2.37	0.57
25:OQ:190:HIS:HE1	25:OQ:410:GLU:HG3	1.68	0.57
28:Q0:2704:ALA:HB1	28:Q0:2830:LEU:HD11	1.86	0.57
28:Q1:2212:LEU:HD13	28:Q1:2304:LEU:HD23	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:QE:282:ARG:NH1	25:QE:288:GLU:OE2	2.36	0.57
25:RE:121:ARG:NH1	25:RE:158:GLU:OE1	2.37	0.57
24:RN:123:ARG:NH1	24:RN:160:ASP:OD2	2.37	0.57
24:TN:286:LEU:O	24:TN:373:ARG:NH1	2.37	0.57
24:UD:259:LEU:HD11	24:UD:316:CYS:HB2	1.86	0.57
24:UH:306:ASP:HB3	24:UH:309:HIS:CE1	2.39	0.57
25:UK:32:PRO:O	25:UK:83:GLN:NE2	2.37	0.57
25:UM:139:LEU:HD12	25:UM:170:VAL:HG12	1.86	0.57
25:UM:237:THR:HG22	25:UM:250:LEU:HD21	1.86	0.57
24:UP:338:LYS:NZ	24:UP:340:THR:OG1	2.38	0.57
24:VD:250:VAL:HG22	24:VD:352:LYS:HE2	1.86	0.57
24:VH:170:THR:HG21	24:VH:194:LEU:HD21	1.87	0.57
24:VL:133:GLN:HG3	24:VL:252:ILE:HB	1.86	0.57
25:VM:19:LYS:NZ	25:VM:223:GLY:O	2.37	0.57
25:XG:375:GLN:OE1	25:XG:379:LYS:NZ	2.37	0.57
40:Y3:63:THR:OG1	40:Y3:79:VAL:O	2.18	0.57
40:Y3:72:LYS:HE2	40:Y3:167:GLU:HA	1.85	0.57
40:Y7:80:PRO:O	40:Y7:389:ASN:ND2	2.37	0.57
24:YD:91:GLN:OE1	24:YD:121:ARG:NH2	2.36	0.57
24:YL:399:TYR:O	24:YL:402:ARG:NH1	2.37	0.57
24:ZB:76:ASP:OD2	25:ZC:46:ARG:NH2	2.37	0.57
24:ZL:271:SER:HB2	24:ZL:377:MET:HB3	1.84	0.57
2:1B:1924:ARG:O	2:1B:1926:ARG:NH1	2.38	0.57
14:8A:245:PRO:O	19:J3:39:GLN:NE2	2.38	0.57
14:8C:14:PRO:HB3	24:XH:57:GLY:HA3	1.87	0.57
14:8C:43:HIS:ND1	24:XH:245:ASP:OD2	2.38	0.57
15:9B:49:TYR:HA	15:9B:285:ALA:HB3	1.86	0.57
16:A0:160:LEU:HD11	24:YN:386:GLU:HB2	1.84	0.57
21:F2:21:ILE:HG13	24:VH:422:ARG:HG3	1.85	0.57
19:G2:287:GLN:HA	19:G2:290:VAL:HG22	1.86	0.57
19:H0:257:LEU:HD11	19:H0:294:GLY:HA2	1.86	0.57
19:K2:322:ALA:O	19:K2:365:ARG:NH2	2.36	0.57
19:L0:322:ALA:O	19:L0:365:ARG:NH2	2.38	0.57
22:M0:703:PRO:HB2	29:R0:152:TRP:HZ2	1.68	0.57
22:M1:870:TYR:OH	28:Q1:245:ASP:OD2	2.21	0.57
24:NB:101:ASN:HD22	25:NC:256:ASN:HD21	1.51	0.57
25:NC:237:THR:HG23	25:NC:241:ARG:HE	1.70	0.57
24:OH:11:GLN:NE2	24:OH:15:GLN:OE1	2.38	0.57
24:OP:241:SER:OG	24:OP:250:VAL:O	2.18	0.57
25:OQ:2:ARG:HB3	25:OQ:131:GLN:HB2	1.86	0.57
25:PC:140:GLY:HA3	25:PC:181:GLU:HG3	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:PD:194:LEU:O	24:PD:198:THR:OG1	2.21	0.57
28:Q0:816:ARG:NH1	28:Q0:824:ASP:OD2	2.37	0.57
28:Q1:1037:VAL:HG11	28:Q1:1100:LEU:HD22	1.85	0.57
25:QC:207:LEU:HB3	25:QC:225:LEU:HD22	1.86	0.57
25:QI:130:LEU:O	25:QI:162:ARG:NH1	2.37	0.57
24:QP:259:LEU:HD21	24:QP:316:CYS:HB2	1.86	0.57
25:QQ:235:GLY:HA3	25:QQ:366:THR:HG21	1.87	0.57
29:R1:171:THR:HA	29:R1:174:VAL:HG22	1.85	0.57
25:RE:391:ARG:NH2	24:RF:434:GLU:O	2.37	0.57
25:RK:135:VAL:HG21	25:RK:152:ILE:HD11	1.86	0.57
24:RL:127:ASP:OD1	24:SL:293:ASN:ND2	2.37	0.57
24:RN:107:HIS:CE1	24:RN:152:LEU:HD13	2.40	0.57
25:TG:173:PRO:HD2	25:TG:205:GLU:HG2	1.87	0.57
24:TH:409:VAL:HA	24:TH:413:MET:HB3	1.87	0.57
25:TO:211:CYS:HA	25:TO:215:LEU:HB2	1.86	0.57
25:VI:396:HIS:HA	25:VI:399:THR:HG22	1.86	0.57
24:XJ:316:CYS:HA	24:XJ:352:LYS:HB3	1.85	0.57
40:Y0:46:GLU:O	40:Y0:71:ARG:NH1	2.37	0.57
40:Y3:189:VAL:HG13	40:Y3:468:ALA:HB3	1.87	0.57
40:Y3:194:ILE:HB	40:Y3:234:LEU:HD22	1.85	0.57
25:YC:204:ASN:OD1	46:YC:501:GDP:O2'	2.21	0.57
24:YN:73:THR:OG1	25:YO:247:ASN:ND2	2.37	0.57
41:Z1:130:LYS:O	41:Z1:134:GLN:N	2.35	0.57
25:ZI:67:ASP:OD2	25:ZI:72:THR:OG1	2.22	0.57
25:ZO:248:ALA:HA	25:ZO:252:LYS:HD3	1.86	0.57
16:A1:118:ARG:NH2	25:XK:158:GLU:O	2.37	0.57
18:C2:216:ARG:NH1	25:VK:194:GLU:OE2	2.38	0.57
18:C3:1573:TYR:HE2	18:C3:1818:PRO:HB2	1.70	0.57
20:E2:363:ASP:OD2	25:VC:306:ARG:NH1	2.38	0.57
19:H4:114:SER:HB3	19:H4:117:LEU:HD23	1.87	0.57
19:J3:198:THR:HB	19:J3:201:LEU:HG	1.85	0.57
19:L2:404:LEU:HD22	19:L2:423:ARG:HH12	1.69	0.57
19:L3:240:SER:OG	19:L3:242:ASP:OD1	2.21	0.57
19:L3:424:GLN:O	19:L3:428:SER:OG	2.23	0.57
24:NB:100:ALA:HA	25:NC:252:LYS:HD2	1.85	0.57
24:NB:394:LYS:NZ	25:NC:346:PRO:O	2.34	0.57
25:NG:8:GLN:HB2	25:NG:65:LEU:HA	1.87	0.57
24:OL:259:LEU:O	24:OL:380:ASN:ND2	2.33	0.57
24:OP:259:LEU:HD21	24:OP:316:CYS:HB2	1.87	0.57
24:PL:178:SER:O	25:PM:347:ASN:ND2	2.38	0.57
24:QD:223:THR:HG22	25:QE:322:SER:HA	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:QL:259:LEU:HD11	24:QL:316:CYS:HB2	1.86	0.57
25:QO:221:THR:HG23	25:QO:223:GLY:H	1.69	0.57
25:RE:234:SER:O	25:RE:241:ARG:NH2	2.36	0.57
24:RP:208:ALA:HB2	24:RP:304:LYS:HD2	1.85	0.57
25:SK:313:ALA:HB3	25:SK:349:VAL:HG22	1.86	0.57
24:SL:127:ASP:OD2	24:TL:293:ASN:ND2	2.37	0.57
24:TB:259:LEU:HD11	24:TB:316:CYS:HB2	1.86	0.57
24:UH:177:VAL:HB	25:UI:331:LEU:HD12	1.86	0.57
24:UJ:238:LEU:HD11	24:UJ:378:ILE:HG13	1.87	0.57
24:UJ:319:TYR:HB3	24:UJ:323:VAL:HG21	1.86	0.57
24:VH:3:GLU:OE2	24:VH:130:THR:N	2.38	0.57
24:VH:392:ASP:OD1	24:VH:422:ARG:NH1	2.37	0.57
25:WC:191:GLN:O	25:WC:195:ASN:ND2	2.38	0.57
24:WN:127:ASP:OD2	24:XN:293:ASN:ND2	2.37	0.57
39:X3:504:LEU:O	39:X3:507:THR:OG1	2.23	0.57
25:YM:253:LEU:HD11	25:YM:316:LEU:HD21	1.87	0.57
41:Z2:73:ARG:NH2	41:Z2:233:HIS:O	2.37	0.57
24:ZF:305:CYS:HB3	24:ZF:387:ILE:HD11	1.87	0.57
25:ZG:17:GLY:HA2	25:ZG:20:PHE:HB3	1.87	0.57
2:1D:1949:ARG:NH1	18:C3:1821:GLU:O	2.28	0.57
14:8C:41:ARG:HH12	24:XH:249:ASN:HD22	1.53	0.57
17:B2:456:ARG:NH2	25:RC:403:MET:SD	2.75	0.57
18:C0:497:ARG:NH2	18:C0:498:GLU:OE2	2.33	0.57
19:D1:401:ARG:HA	19:D1:404:LEU:HG	1.86	0.57
20:E1:335:LEU:HD12	20:E1:336:PRO:HD2	1.87	0.57
21:F2:178:ARG:NH1	21:F2:179:GLU:OE2	2.38	0.57
19:H7:401:ARG:HH22	19:H7:405:LYS:HB3	1.69	0.57
19:J0:264:ASP:HB3	19:J0:267:VAL:HG22	1.85	0.57
25:NC:86:ARG:HH11	25:OE:282:ARG:HH12	1.51	0.57
24:ND:224:TYR:HD2	25:NE:245:GLN:HB3	1.69	0.57
24:NJ:223:THR:OG1	25:NK:245:GLN:NE2	2.34	0.57
25:OI:262:ARG:NH2	25:OI:414:ASN:OD1	2.36	0.57
25:PM:258:ILE:HG21	25:PM:264:HIS:HA	1.87	0.57
28:Q0:297:VAL:HA	28:Q0:300:GLN:HG2	1.86	0.57
28:Q1:2013:LEU:HD23	28:Q1:2042:THR:HG23	1.87	0.57
25:QG:86:ARG:HD2	25:QG:88:ASP:HB2	1.86	0.57
25:RC:171:PRO:HB3	25:RC:181:GLU:HB3	1.85	0.57
25:RG:184:ASN:OD1	25:RG:398:TYR:OH	2.23	0.57
25:RI:253:LEU:HD11	25:RI:316:LEU:HD21	1.87	0.57
25:SO:330:MET:HB3	25:SO:349:VAL:HG21	1.87	0.57
25:TC:7:ILE:HB	25:TC:135:VAL:HG12	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:TE:54:ALA:HA	25:UE:283:ALA:HB2	1.86	0.57
24:TL:195:LEU:HD21	24:TL:264:ARG:HE	1.69	0.57
24:UH:76:ASP:HA	24:UH:79:ARG:HB2	1.87	0.57
24:UJ:50:ASN:O	24:UJ:64:ARG:NH1	2.36	0.57
24:UL:216:SER:OG	24:UL:275:ILE:O	2.23	0.57
34:V0:183:TRP:HA	34:V0:189:ASN:H	1.69	0.57
25:VE:4:ILE:HB	25:VE:50:TYR:HE1	1.70	0.57
25:VG:98:GLY:HA2	24:VH:254:GLU:HG2	1.86	0.57
24:VH:195:LEU:HA	24:VH:266:HIS:HE1	1.70	0.57
24:WH:338:LYS:NZ	24:WH:340:THR:OG1	2.37	0.57
39:X3:150:ARG:HA	39:X3:172:HIS:HB2	1.86	0.57
25:XA:320:ARG:HH21	25:XA:355:ASP:HB2	1.69	0.57
25:XE:70:PRO:HA	25:XE:73:MET:HB3	1.85	0.57
2:1A:2060:LEU:HD12	2:1A:2069:ALA:HB1	1.86	0.57
2:1C:1542:ARG:HH12	2:1C:2049:ASN:HD21	1.53	0.57
2:1C:1916:ARG:HH12	18:C2:1552:LEU:HD23	1.70	0.57
2:1D:1422:ASP:HA	2:1D:1425:VAL:HG22	1.87	0.57
14:8C:183:GLN:NE2	25:SG:216:LYS:O	2.35	0.57
17:B2:398:VAL:O	17:B2:402:ARG:NH1	2.38	0.57
18:C0:597:ALA:HB3	18:C0:824:VAL:HG22	1.85	0.57
18:C2:833:GLU:OE2	18:C2:837:LYS:NZ	2.29	0.57
18:C2:1902:MET:HA	18:C2:1911:VAL:HG21	1.86	0.57
18:C4:4:LEU:HA	18:C4:7:LYS:HG2	1.85	0.57
19:D6:358:TRP:HB2	19:D6:396:LEU:HD21	1.87	0.57
19:L3:171:LEU:HD13	19:L3:174:LEU:HD21	1.86	0.57
22:M1:112:GLN:HG2	22:M1:114:ARG:HG2	1.87	0.57
26:O0:946:GLY:HA2	24:SJ:401:LYS:HD2	1.86	0.57
24:OP:271:SER:HB2	24:OP:377:MET:HB3	1.87	0.57
25:OQ:311:LEU:H	25:OQ:371:SER:HA	1.70	0.57
25:PI:272:PRO:HG3	25:PI:364:SER:HA	1.85	0.57
28:Q0:1329:LEU:O	28:Q0:1367:LYS:NZ	2.37	0.57
28:Q1:916:LEU:HB2	28:Q1:924:THR:HG23	1.86	0.57
28:Q1:2085:ALA:HB1	28:Q1:2096:ARG:HG3	1.86	0.57
25:QM:54:ALA:HA	25:RM:283:ALA:HB2	1.87	0.57
24:SF:135:PHE:HB2	24:SF:166:LYS:HG2	1.86	0.57
24:TD:76:ASP:HA	24:TD:79:ARG:HB2	1.86	0.57
25:TG:345:ILE:O	25:TG:348:ASN:ND2	2.37	0.57
25:TK:9:GLY:HA2	25:TK:66:MET:HG3	1.87	0.57
33:U1:41:PHE:O	33:U1:66:GLN:NE2	2.36	0.57
25:UE:207:LEU:HA	25:UE:210:ILE:HG12	1.87	0.57
25:UE:222:PHE:HA	25:UE:225:LEU:HB2	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:VC:237:THR:HG22	25:VC:250:LEU:HD21	1.85	0.57
24:VJ:268:MET:SD	24:VJ:380:ASN:ND2	2.78	0.57
25:VM:237:THR:HG23	25:VM:241:ARG:HE	1.70	0.57
25:WC:279:GLN:OE1	25:WC:282:ARG:NH2	2.38	0.57
24:WH:9:ILE:HG12	24:WH:68:LEU:HD21	1.86	0.57
25:XM:396:HIS:HA	25:XM:399:THR:HG22	1.87	0.57
25:YC:33:THR:O	25:YC:58:ARG:NH1	2.38	0.57
24:YF:259:LEU:HD23	24:YF:268:MET:HG2	1.86	0.57
25:YI:405:GLU:HA	25:YI:408:PHE:HD2	1.69	0.57
24:YL:272:TYR:HB3	24:YL:275:ILE:HD11	1.86	0.57
24:YN:213:CYS:HA	24:YN:217:LEU:HD13	1.87	0.57
2:1A:1810:VAL:HA	41:Z0:275:ARG:HH21	1.68	0.57
2:1B:185:ALA:HB2	2:1B:1534:ARG:HH12	1.70	0.57
2:1C:2289:VAL:HG21	2:1C:2300:VAL:HG21	1.87	0.57
2:1D:2057:THR:H	18:C3:1585:ARG:HH11	1.53	0.57
7:2P:156:GLU:HA	9:3P:155:ALA:HB3	1.86	0.57
17:B0:566:ARG:NH2	25:RO:399:THR:OG1	2.38	0.57
18:C0:1576:LEU:HD22	18:C0:1608:LEU:HB3	1.87	0.57
19:D6:231:CYS:HB3	19:D6:270:HIS:HD2	1.69	0.57
19:D7:46:LEU:HD23	19:D7:49:LEU:HD12	1.85	0.57
19:G1:82:ASN:O	19:G1:82:ASN:ND2	2.35	0.57
19:G1:233:LEU:HD13	19:G1:236:ILE:HD11	1.86	0.57
22:M0:816:TRP:HE1	22:M0:818:VAL:HG22	1.70	0.57
24:NF:11:GLN:HG2	24:NF:74:VAL:HG21	1.87	0.57
25:OI:207:LEU:HB3	25:OI:225:LEU:HD22	1.87	0.57
24:PL:271:SER:HB2	24:PL:377:MET:HB3	1.86	0.57
25:PM:205:GLU:HA	25:PM:208:TYR:HB2	1.86	0.57
25:PQ:248:ALA:HA	25:PQ:252:LYS:HD2	1.87	0.57
24:RF:388:PHE:HD2	24:RF:428:LEU:HD21	1.70	0.57
25:RG:14:ASN:ND2	25:RG:67:ASP:OD1	2.37	0.57
24:RJ:98:ASP:O	24:RJ:105:ARG:NH1	2.37	0.57
24:SF:101:ASN:HB3	24:SF:186:ASN:HD21	1.70	0.57
25:SG:131:GLN:HG2	25:SG:240:LEU:HD21	1.87	0.57
24:SH:90:GLU:OE1	24:SH:121:ARG:NH1	2.37	0.57
25:SI:17:GLY:HA2	25:SI:20:PHE:HB3	1.87	0.57
24:SL:209:ILE:HG23	24:SL:230:LEU:HD11	1.87	0.57
25:SM:391:ARG:NH2	24:SN:439:SER:OG	2.38	0.57
25:TE:113:ILE:HG13	25:TE:150:LEU:HD22	1.87	0.57
24:UF:322:ASP:O	24:UF:373:ARG:NH1	2.38	0.57
24:UH:189:LEU:HD11	24:UH:418:PHE:HE1	1.68	0.57
25:UI:107:THR:HG21	25:UI:401:GLU:HG2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:UL:76:ASP:HA	24:UL:79:ARG:HB2	1.87	0.57
24:XB:203:MET:HG3	24:XB:384:ILE:HD11	1.87	0.57
25:XO:117:LEU:HD11	25:XO:154:LYS:HD3	1.87	0.57
40:Y7:132:ILE:HD13	40:Y7:160:VAL:HG21	1.87	0.57
25:YG:140:GLY:O	25:YG:184:ASN:ND2	2.37	0.57
25:YG:257:LEU:O	25:YG:370:ASN:ND2	2.35	0.57
25:ZI:325:GLU:HA	25:ZI:328:GLU:HG2	1.85	0.57
2:1A:1461:ARG:HG3	2:1A:1462:VAL:HG23	1.87	0.57
2:1D:1461:ARG:HG3	2:1D:1462:VAL:HG23	1.87	0.57
14:8C:91:HIS:HB3	24:VH:130:THR:HG22	1.86	0.57
18:C3:430:GLU:OE1	39:X3:255:ARG:NH2	2.38	0.57
19:D7:203:GLN:HA	19:D7:206:VAL:HG22	1.86	0.57
19:L1:171:LEU:HD13	19:L1:174:LEU:HD21	1.87	0.57
24:NB:306:ASP:OD2	24:NB:308:ARG:NH1	2.38	0.57
24:ND:122:ILE:HG21	24:ND:157:LEU:HD11	1.87	0.57
24:NJ:3:GLU:OE2	24:NJ:64:ARG:NE	2.38	0.57
25:OQ:236:ILE:HG23	25:OQ:237:THR:HG23	1.86	0.57
25:PC:10:GLY:O	25:PC:14:ASN:ND2	2.37	0.57
28:Q0:94:ARG:NH1	28:Q0:122:CYS:SG	2.78	0.57
25:QG:7:ILE:HB	25:QG:135:VAL:HG12	1.85	0.57
24:QH:251:ASP:H	24:QH:254:GLU:HG2	1.70	0.57
25:QK:83:GLN:OE1	25:RK:281:TYR:OH	2.23	0.57
25:RM:33:THR:O	25:RM:58:ARG:NH1	2.38	0.57
25:SM:138:SER:HA	25:SM:169:VAL:H	1.70	0.57
24:TB:195:LEU:HD13	24:TB:264:ARG:HH21	1.70	0.57
25:TI:392:LYS:NZ	25:TI:405:GLU:OE1	2.37	0.57
24:TJ:268:MET:SD	24:TJ:380:ASN:ND2	2.77	0.57
24:UB:222:PRO:O	25:UC:322:SER:OG	2.23	0.57
25:UE:396:HIS:HA	25:UE:399:THR:HG22	1.87	0.57
25:UM:253:LEU:HD21	25:UM:316:LEU:HD21	1.87	0.57
24:UP:119:LEU:HD21	24:UP:156:ARG:HB3	1.85	0.57
24:VN:274:PRO:HD3	24:VN:291:ILE:HB	1.87	0.57
25:WG:139:LEU:HD12	25:WG:170:VAL:HG12	1.87	0.57
25:WM:211:CYS:HA	25:WM:215:LEU:HB2	1.87	0.57
24:WN:102:ASN:HB3	24:WN:105:ARG:HB2	1.86	0.57
24:XB:328:VAL:HG11	24:XB:355:ILE:HD11	1.87	0.57
25:XC:286:VAL:HB	25:XC:325:GLU:HB3	1.87	0.57
25:XK:113:ILE:HG13	25:XK:150:LEU:HD22	1.86	0.57
25:YC:100:ASN:HB3	25:YC:103:LYS:HG2	1.87	0.57
2:1D:2178:LEU:HD21	2:1D:2239:PHE:HD2	1.70	0.56
18:C1:592:LEU:HD21	18:C1:721:LYS:HG3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:C1:597:ALA:HB3	18:C1:824:VAL:HG22	1.85	0.56
18:C1:1926:ALA:HA	18:C1:1929:LEU:HD12	1.87	0.56
19:D7:70:ASN:O	19:D7:112:ARG:NH2	2.38	0.56
19:H1:46:LEU:HD13	19:H1:65:LEU:HB3	1.87	0.56
19:I0:268:LYS:HB3	19:I0:301:TYR:HE1	1.70	0.56
22:M0:756:ARG:NH1	28:Q0:2153:ASP:OD2	2.37	0.56
24:OD:101:ASN:ND2	24:OD:142:GLY:O	2.38	0.56
25:OM:2:ARG:HB3	25:OM:131:GLN:HB2	1.85	0.56
25:PG:156:ARG:HG3	25:PG:195:ASN:HB2	1.87	0.56
25:PI:191:GLN:O	25:PI:195:ASN:ND2	2.38	0.56
29:R0:201:ASP:HA	29:R0:204:THR:HG22	1.87	0.56
25:RK:238:CYS:HB2	25:RK:318:ARG:HH11	1.70	0.56
25:RO:334:GLN:HE22	25:RO:347:ASN:HA	1.68	0.56
25:SI:220:PRO:HD2	24:SJ:326:LYS:HD3	1.86	0.56
24:TH:11:GLN:NE2	24:TH:15:GLN:OE1	2.38	0.56
24:TH:194:LEU:O	24:TH:198:THR:OG1	2.23	0.56
24:UL:250:VAL:HG22	24:UL:352:LYS:HE3	1.87	0.56
25:XC:87:PRO:HB2	24:YD:280:LYS:HZ1	1.69	0.56
40:Y1:367:THR:HG23	40:Y1:390:GLN:HE21	1.69	0.56
40:Y4:358:GLN:HE22	40:Y4:360:VAL:HG22	1.70	0.56
40:Y7:80:PRO:HB2	40:Y7:416:ARG:HB2	1.86	0.56
24:YJ:50:ASN:O	24:YJ:64:ARG:NH1	2.38	0.56
41:Z2:187:TYR:HA	41:Z2:369:ILE:HG13	1.86	0.56
25:ZE:204:ASN:OD1	46:ZE:501:GDP:O2'	2.23	0.56
24:ZH:203:MET:HB3	24:ZH:303:VAL:HG11	1.87	0.56
25:ZK:272:PRO:HG3	25:ZK:364:SER:HA	1.87	0.56
24:ZP:101:ASN:HA	24:ZP:144:GLY:H	1.69	0.56
4:2B:273:GLU:HB3	4:2B:275:VAL:HG23	1.86	0.56
16:A2:127:ASP:HA	16:A2:130:LEU:HD12	1.86	0.56
16:A2:128:ARG:NH1	25:YG:296:ALA:O	2.32	0.56
17:B2:401:ARG:NH1	25:RE:106:TYR:O	2.37	0.56
18:C0:1025:ASP:O	18:C0:1029:HIS:ND1	2.32	0.56
18:C1:427:ARG:HD3	39:X1:278:LEU:HD22	1.87	0.56
18:C1:1218:VAL:HG13	18:C1:1517:ARG:HH21	1.70	0.56
19:H5:268:LYS:HB3	19:H5:301:TYR:HE1	1.69	0.56
19:L1:245:GLU:HA	19:L1:248:VAL:HG22	1.86	0.56
22:M1:327:LEU:HD22	25:TI:157:GLU:HA	1.86	0.56
25:NC:139:LEU:HD12	25:NC:170:VAL:HG12	1.87	0.56
25:NE:412:GLU:OE2	25:NE:416:ASN:ND2	2.38	0.56
25:NG:165:LEU:HD21	25:NG:250:LEU:HD11	1.88	0.56
24:NH:73:THR:OG1	25:NI:247:ASN:ND2	2.33	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:NK:314:SER:HB3	25:NK:368:ILE:HB	1.86	0.56
25:NO:421:GLU:HA	25:NO:424:GLN:HB3	1.86	0.56
24:OD:339:ARG:HH22	24:OD:342:GLN:HE22	1.51	0.56
25:OI:248:ALA:HA	25:OI:252:LYS:HG2	1.86	0.56
25:QG:221:THR:HG23	25:QG:223:GLY:H	1.70	0.56
24:QJ:102:ASN:HB3	24:QJ:105:ARG:HB2	1.87	0.56
24:RH:71:GLU:OE1	25:RI:247:ASN:ND2	2.38	0.56
24:RJ:388:PHE:HB3	24:RJ:425:LEU:HD11	1.86	0.56
25:RM:253:LEU:HD11	25:RM:316:LEU:HD21	1.86	0.56
25:RO:4:ILE:HB	25:RO:50:TYR:HE1	1.71	0.56
24:RP:211:ASP:O	24:RP:214:ARG:NH1	2.37	0.56
25:SC:272:PRO:HG3	25:SC:364:SER:HA	1.87	0.56
25:SI:202:LEU:HD12	25:SI:207:LEU:HD11	1.87	0.56
24:SN:271:SER:OG	24:SN:301:MET:SD	2.62	0.56
25:UC:54:ALA:HA	25:VC:283:ALA:HB2	1.87	0.56
24:UD:51:THR:HG21	24:UD:243:ARG:HG2	1.86	0.56
24:UH:398:MET:HE1	24:UH:404:PHE:HD2	1.69	0.56
25:WG:314:SER:HA	25:WG:350:LYS:HB3	1.88	0.56
25:WO:252:LYS:O	25:WO:256:ASN:ND2	2.37	0.56
40:Y1:386:LEU:HD23	40:Y1:413:THR:HG22	1.87	0.56
40:Y5:214:PRO:HA	40:Y5:282:VAL:HG12	1.87	0.56
25:ZO:164:MET:HB3	25:ZO:197:ASP:H	1.69	0.56
2:1A:59:LEU:HD12	2:1A:60:PRO:HD2	1.87	0.56
2:1A:1373:HIS:ND1	2:1A:1373:HIS:O	2.37	0.56
14:8A:85:PRO:O	14:8A:98:ARG:NH2	2.38	0.56
14:8C:85:PRO:O	14:8C:98:ARG:NH2	2.39	0.56
16:A0:82:PRO:O	24:YP:214:ARG:NH2	2.38	0.56
16:A0:86:HIS:HD2	16:A0:88:LYS:H	1.52	0.56
18:C1:1367:LEU:HD23	18:C1:1370:ARG:HD3	1.87	0.56
18:C2:178:GLU:HA	18:C2:181:ARG:HB2	1.88	0.56
18:C2:1908:GLU:OE2	18:C2:1909:ARG:NH1	2.38	0.56
18:C4:153:GLU:OE2	18:C4:157:ARG:NE	2.38	0.56
19:D1:195:SER:O	19:D1:239:HIS:NE2	2.37	0.56
19:D1:214:LEU:HD12	19:D1:217:LEU:HD12	1.87	0.56
19:D2:280:LYS:HG3	19:D2:319:TYR:HE2	1.70	0.56
20:E3:342:LEU:HB2	20:E3:346:ALA:HB3	1.88	0.56
21:F2:118:SER:OG	25:VI:417:ASP:OD1	2.19	0.56
19:G2:196:LYS:HA	19:G2:235:GLN:HB3	1.87	0.56
19:H3:108:ARG:HB3	19:H3:148:THR:HA	1.87	0.56
19:H6:306:ALA:O	19:H6:310:ARG:NH1	2.39	0.56
19:H7:338:PRO:HA	19:H7:341:VAL:HG22	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:I0:73:ASP:OD1	19:I0:113:HIS:ND1	2.39	0.56
19:J2:114:SER:HB3	19:J2:117:LEU:HD23	1.88	0.56
19:K1:301:TYR:O	19:K1:305:SER:CB	2.53	0.56
19:L0:138:ASP:HB3	19:L0:141:VAL:HG12	1.87	0.56
19:L0:208:ALA:HB2	22:M1:22:ASN:HD21	1.70	0.56
19:L3:248:VAL:HG21	19:L3:285:LEU:HD11	1.87	0.56
22:M1:164:THR:HG22	22:M1:202:THR:HG22	1.86	0.56
25:NG:27:GLU:OE1	25:NG:241:ARG:NH2	2.38	0.56
25:NG:54:ALA:HA	25:OI:283:ALA:HB2	1.87	0.56
25:NI:25:SER:HB2	25:NI:30:ILE:HB	1.87	0.56
25:NO:133:PHE:HD2	25:NO:155:ILE:HD12	1.70	0.56
26:O0:574:THR:OG1	26:O0:577:GLU:OE1	2.22	0.56
25:OC:164:MET:HB2	25:OC:197:ASP:H	1.70	0.56
24:OH:76:ASP:HA	24:OH:79:ARG:HD3	1.87	0.56
24:OH:122:ILE:HG21	24:OH:157:LEU:HD11	1.87	0.56
24:OP:259:LEU:O	24:OP:380:ASN:ND2	2.30	0.56
25:PI:83:GLN:O	25:QI:281:TYR:OH	2.24	0.56
25:PK:60:VAL:HG21	25:PK:86:ARG:HG3	1.87	0.56
24:PL:271:SER:OG	24:PL:301:MET:SD	2.63	0.56
25:PO:375:GLN:HB2	25:PO:419:VAL:HG23	1.88	0.56
25:QQ:290:THR:HG21	25:QQ:329:GLN:HB3	1.86	0.56
25:QQ:337:ASN:ND2	37:W7:31:UNK:O	2.38	0.56
24:RD:185:TYR:HE1	24:RD:398:MET:HB3	1.70	0.56
24:RF:320:ARG:HD3	24:RF:360:PRO:HG3	1.87	0.56
25:RG:4:ILE:HB	25:RG:50:TYR:HE1	1.70	0.56
25:RG:54:ALA:HA	25:SG:283:ALA:HB2	1.86	0.56
24:RJ:121:ARG:HE	24:RJ:124:LYS:HD2	1.71	0.56
25:SC:235:GLY:HA3	25:SC:366:THR:HG21	1.87	0.56
25:SM:396:HIS:HA	25:SM:399:THR:HG22	1.87	0.56
25:TK:7:ILE:HB	25:TK:135:VAL:HG12	1.88	0.56
25:TK:64:ILE:HD11	25:TK:123:GLU:HG3	1.87	0.56
25:UE:130:LEU:O	25:UE:162:ARG:NH1	2.38	0.56
25:UO:263:LEU:HD11	25:UO:421:GLU:HG3	1.86	0.56
25:VC:17:GLY:HA2	25:VC:20:PHE:HB3	1.87	0.56
25:VI:134:GLN:HG3	25:VI:165:LEU:HD22	1.86	0.56
25:VK:7:ILE:HB	25:VK:135:VAL:HG12	1.88	0.56
24:WD:209:ILE:HG23	24:WD:230:LEU:HD11	1.88	0.56
25:WI:219:THR:HB	24:WJ:324:VAL:HG11	1.87	0.56
25:WM:54:ALA:HB3	25:WM:58:ARG:HB3	1.88	0.56
39:X1:647:TRP:HB2	39:X1:665:TRP:CE2	2.40	0.56
39:X3:188:LEU:HD21	39:X3:191:LEU:HD13	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:Y0:414:SER:OG	40:Y0:438:LYS:NZ	2.36	0.56
40:Y6:341:GLU:HG3	40:Y6:343:ASP:H	1.70	0.56
25:YC:135:VAL:HG21	25:YC:152:ILE:HD11	1.87	0.56
24:YH:195:LEU:HD11	24:YH:428:LEU:HD22	1.87	0.56
24:YH:318:MET:HB2	24:YH:376:CYS:HB3	1.86	0.56
24:YJ:319:TYR:HD2	24:YJ:323:VAL:HG11	1.70	0.56
24:YL:223:THR:OG1	25:YM:245:GLN:OE1	2.23	0.56
24:YL:395:PHE:HE2	24:YL:422:ARG:HB2	1.70	0.56
24:ZB:100:ALA:HA	25:ZC:252:LYS:HD2	1.86	0.56
25:ZC:27:GLU:OE1	25:ZC:241:ARG:NH1	2.39	0.56
25:ZC:239:CYS:SG	25:ZC:248:ALA:N	2.77	0.56
25:ZI:218:THR:HG23	25:ZI:219:THR:HG23	1.85	0.56
2:1B:1998:TYR:HA	2:1B:2001:VAL:HG12	1.88	0.56
2:1B:2286:ARG:HD2	2:1B:2288:TRP:HZ2	1.70	0.56
2:1D:1807:GLU:OE2	2:1D:1811:ARG:NH1	2.37	0.56
4:2B:373:ILE:HG22	4:2B:384:VAL:HB	1.86	0.56
4:2B:1174:LYS:N	4:2B:1193:ARG:O	2.38	0.56
18:C1:427:ARG:NH1	39:X1:278:LEU:HB2	2.20	0.56
21:F1:117:VAL:HG12	25:VM:262:ARG:HD2	1.88	0.56
21:F3:171:ASP:HB2	21:F3:182:VAL:HB	1.87	0.56
19:J0:361:GLY:HA3	19:J0:400:CYS:HB3	1.87	0.56
22:M1:819:ARG:NH1	28:Q1:232:ASP:OD2	2.39	0.56
25:NC:176:SER:OG	25:NC:178:THR:O	2.24	0.56
26:O0:385:ILE:O	26:O0:389:GLN:NE2	2.39	0.56
24:OD:220:GLU:O	25:OE:324:LYS:NZ	2.37	0.56
25:OE:164:MET:HB3	25:OE:197:ASP:H	1.71	0.56
24:OL:101:ASN:ND2	24:OL:142:GLY:O	2.38	0.56
25:PE:391:ARG:O	24:PF:262:TYR:OH	2.22	0.56
25:PK:4:ILE:HB	25:PK:50:TYR:HE1	1.69	0.56
28:Q1:1510:MET:HB3	28:Q1:1609:LEU:HD23	1.87	0.56
25:QE:122:LYS:NZ	25:RE:291:GLN:OE1	2.38	0.56
25:QG:179:VAL:HG13	24:QH:350:GLY:HA2	1.88	0.56
25:QK:91:VAL:HG21	25:QK:116:VAL:HG12	1.87	0.56
24:RD:222:PRO:HD2	25:RE:324:LYS:HE3	1.88	0.56
25:RE:237:THR:HG23	25:RE:241:ARG:HE	1.69	0.56
25:RG:175:VAL:HG21	24:RH:329:ASN:HB3	1.88	0.56
24:RH:422:ARG:O	24:RH:422:ARG:NH1	2.39	0.56
24:SF:17:GLY:HA2	24:SF:20:CYS:HB2	1.88	0.56
24:SJ:73:THR:HB	25:SK:46:ARG:HH12	1.69	0.56
25:SM:33:THR:O	25:SM:58:ARG:NH1	2.38	0.56
32:T2:420:PRO:HG2	32:T2:433:VAL:HG22	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:TH:180:ALA:HB3	24:TH:183:GLU:HG3	1.87	0.56
25:TI:3:GLU:HA	25:TI:49:VAL:HA	1.87	0.56
24:TL:27:GLU:OE1	24:TL:243:ARG:NH2	2.39	0.56
25:UI:7:ILE:HB	25:UI:135:VAL:HG12	1.87	0.56
25:VI:19:LYS:HE3	25:VI:227:HIS:HD2	1.70	0.56
25:VK:198:GLU:HA	25:VK:264:HIS:HB2	1.87	0.56
25:WE:248:ALA:HA	25:WE:252:LYS:HG3	1.86	0.56
25:WG:391:ARG:NH2	24:WH:437:ALA:O	2.38	0.56
25:XI:64:ILE:HG13	25:XI:89:ASN:HD22	1.69	0.56
40:Y4:82:GLY:HA2	40:Y4:416:ARG:HD3	1.87	0.56
40:Y6:252:GLU:HA	40:Y6:447:ARG:HH21	1.70	0.56
25:YM:2:ARG:NH1	25:YM:249:ASP:OD1	2.38	0.56
2:1D:2495:LYS:NZ	18:C3:1163:SER:OG	2.36	0.56
19:D5:264:ASP:HB3	19:D5:267:VAL:HG22	1.86	0.56
19:D6:325:GLU:OE1	19:D6:365:ARG:NH1	2.38	0.56
19:G5:112:ARG:HG3	19:G5:113:HIS:HD2	1.70	0.56
19:H1:143:GLU:OE1	19:H1:182:SER:OG	2.19	0.56
19:I1:143:GLU:OE2	19:I1:182:SER:OG	2.23	0.56
19:L1:218:VAL:O	19:L1:226:LYS:NZ	2.35	0.56
19:L1:276:ARG:HE	19:L1:277:GLU:HB2	1.69	0.56
26:O1:137:VAL:HG11	26:O1:186:LEU:HD11	1.86	0.56
24:OJ:76:ASP:OD2	25:OK:46:ARG:NH2	2.38	0.56
25:OO:184:ASN:OD1	25:OO:398:TYR:OH	2.24	0.56
25:OQ:58:ARG:HH21	25:PQ:281:TYR:HE2	1.53	0.56
25:PC:331:LEU:O	25:PC:335:ASN:ND2	2.38	0.56
28:Q1:1853:LEU:HD23	28:Q1:1879:ALA:HB2	1.87	0.56
25:RE:310:TYR:O	25:RE:348:ASN:ND2	2.39	0.56
25:RM:358:PRO:HG2	25:RM:361:LEU:HB2	1.88	0.56
24:RP:349:THR:O	24:RP:352:LYS:NZ	2.38	0.56
25:SG:248:ALA:HA	25:SG:252:LYS:HG3	1.86	0.56
25:SI:54:ALA:HB3	25:SI:58:ARG:HB2	1.86	0.56
25:SO:99:ASN:ND2	24:SP:254:GLU:OE2	2.37	0.56
24:TL:222:PRO:HG2	25:TM:324:LYS:HD3	1.88	0.56
24:UD:195:LEU:HD11	24:UD:428:LEU:HD13	1.87	0.56
25:UK:8:GLN:HG2	25:UK:17:GLY:HA3	1.87	0.56
25:VO:69:GLU:OE2	24:VP:2:ARG:NH1	2.37	0.56
25:VO:198:GLU:HA	25:VO:264:HIS:HB2	1.86	0.56
24:WB:269:LEU:N	24:WB:379:SER:O	2.33	0.56
24:XL:50:ASN:O	24:XL:64:ARG:NH1	2.38	0.56
24:XN:319:TYR:HB3	24:XN:323:VAL:HG21	1.87	0.56
40:Y1:452:ASN:HD22	40:Y1:455:LEU:HD12	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:Y5:58:SER:HB2	40:Y5:444:ARG:HH21	1.71	0.56
41:Z0:447:GLN:HE22	41:Z0:464:LYS:HE2	1.69	0.56
41:Z2:434:PHE:HB3	41:Z2:480:ILE:HG13	1.86	0.56
25:ZG:334:GLN:HE22	25:ZG:347:ASN:HA	1.69	0.56
24:ZJ:208:ALA:HA	24:ZJ:304:LYS:HE3	1.87	0.56
2:1C:1545:LEU:HD21	2:1C:2001:VAL:HG11	1.87	0.56
16:A0:93:LEU:HD11	24:YP:215:ARG:HH12	1.71	0.56
18:C1:1908:GLU:OE2	18:C1:1909:ARG:NH1	2.39	0.56
19:H6:264:ASP:HB3	19:H6:267:VAL:HG22	1.88	0.56
19:J0:138:ASP:HB3	19:J0:141:VAL:HG22	1.87	0.56
19:J0:147:TRP:HB2	19:J0:186:ILE:HD11	1.88	0.56
19:L1:472:LYS:O	19:L1:476:GLU:HG3	2.05	0.56
22:M1:140:ASN:HB3	22:M1:166:GLU:HG3	1.87	0.56
23:N1:54:GLU:HA	23:N1:57:MET:HB3	1.86	0.56
24:NB:90:GLU:OE1	24:OD:280:LYS:NZ	2.26	0.56
25:NE:204:ASN:OD1	46:NE:501:GDP:O2'	2.23	0.56
24:OF:5:ILE:HG12	24:OF:64:ARG:HG2	1.87	0.56
24:OJ:147:SER:HB2	24:OJ:190:SER:HB3	1.87	0.56
24:OP:402:ARG:HH22	24:OP:415:GLU:HG2	1.70	0.56
25:PC:375:GLN:HB2	25:PC:419:VAL:HG23	1.86	0.56
25:PI:32:PRO:O	25:PI:83:GLN:NE2	2.38	0.56
25:PI:205:GLU:HA	25:PI:208:TYR:HB2	1.87	0.56
28:Q0:98:LEU:HB2	28:Q0:111:ARG:HB3	1.88	0.56
28:Q1:538:GLY:HA3	28:Q1:628:PRO:HD2	1.88	0.56
25:QI:8:GLN:HE21	25:QI:65:LEU:HD23	1.71	0.56
25:QM:237:THR:HG22	25:QM:250:LEU:HD21	1.86	0.56
29:R0:2497:ARG:H	29:R0:2762:TRP:HA	1.70	0.56
24:RD:402:ARG:HD3	24:RD:405:VAL:HG21	1.87	0.56
25:RG:292:GLN:HG3	25:RG:298:ASN:HD22	1.71	0.56
24:RH:239:THR:HG23	24:RH:243:ARG:HH12	1.71	0.56
25:RM:318:ARG:HD2	25:RM:358:PRO:HD3	1.87	0.56
25:SC:63:ALA:O	25:SC:89:ASN:ND2	2.37	0.56
25:SG:238:CYS:HB2	25:SG:318:ARG:HH11	1.70	0.56
32:T0:382:GLY:O	32:T0:507:SER:OG	2.23	0.56
24:TF:286:LEU:O	24:TF:373:ARG:NH1	2.39	0.56
24:UD:139:ASN:O	24:UD:170:THR:HA	2.05	0.56
24:UF:115:VAL:HG21	24:UF:152:LEU:HB3	1.87	0.56
24:UN:105:ARG:HG2	24:UN:110:ILE:HG12	1.88	0.56
25:VE:207:LEU:HD23	25:VE:210:ILE:HD11	1.85	0.56
24:WB:215:ARG:NH2	24:WB:299:ALA:O	2.39	0.56
24:WN:229:ARG:HD3	24:WN:363:VAL:HG21	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:WN:394:LYS:NZ	25:WO:347:ASN:OD1	2.36	0.56
25:WO:54:ALA:HB3	25:WO:58:ARG:HB2	1.87	0.56
25:XG:86:ARG:HH21	25:XG:88:ASP:HB3	1.70	0.56
25:XK:234:SER:OG	25:XK:241:ARG:NH2	2.39	0.56
24:XL:112:LYS:HA	24:XL:115:VAL:HG12	1.87	0.56
25:XM:60:VAL:HG11	25:XM:86:ARG:HG3	1.86	0.56
40:Y2:43:THR:HG22	40:Y3:32:LEU:HG	1.88	0.56
24:ZD:342:GLN:NE2	24:ZD:343:PHE:O	2.39	0.56
25:ZE:345:ILE:O	25:ZE:348:ASN:ND2	2.39	0.56
2:1A:2495:LYS:NZ	18:C0:1163:SER:OG	2.36	0.56
2:1B:1242:MET:HB2	2:1B:1345:VAL:HG23	1.88	0.56
6:2H:685:TYR:HA	6:2H:717:TYR:O	2.04	0.56
14:8B:41:ARG:HB3	24:XL:2:ARG:HH22	1.71	0.56
17:B2:402:ARG:HH21	25:RE:106:TYR:HD1	1.53	0.56
18:C2:39:ASN:ND2	18:C2:127:PRO:O	2.28	0.56
19:D1:146:ALA:HB3	19:D1:186:ILE:HD12	1.88	0.56
19:D2:122:ILE:HD11	19:D2:127:LEU:HD22	1.88	0.56
19:J1:34:ILE:HA	19:J1:37:LEU:HD23	1.87	0.56
25:NE:70:PRO:HD2	24:NF:2:ARG:HH12	1.71	0.56
24:NJ:272:TYR:HB3	24:NJ:275:ILE:HD11	1.88	0.56
25:NO:171:PRO:O	25:NO:380:ARG:NH2	2.38	0.56
25:OI:64:ILE:HD11	25:OI:123:GLU:HG3	1.87	0.56
24:OJ:73:THR:HG22	25:OK:46:ARG:HH12	1.71	0.56
24:OL:319:TYR:HD2	24:OL:323:VAL:HG11	1.71	0.56
25:PC:130:LEU:O	25:PC:162:ARG:NH1	2.39	0.56
25:PG:54:ALA:HB3	25:PG:58:ARG:HB3	1.88	0.56
24:PJ:9:ILE:HG12	24:PJ:68:LEU:HD23	1.86	0.56
24:PP:320:ARG:NH2	24:PP:358:GLN:OE1	2.38	0.56
28:Q1:1362:GLU:OE2	28:Q1:1366:ARG:NH1	2.39	0.56
24:QJ:392:ASP:O	24:QJ:422:ARG:NH1	2.39	0.56
25:QO:11:GLN:NE2	24:QP:247:ALA:O	2.39	0.56
29:R1:8:HIS:CE1	29:R1:47:THR:HG22	2.41	0.56
29:R1:2657:THR:H	29:R1:2660:ALA:HB3	1.70	0.56
24:RN:175:PRO:HB3	24:RN:390:ARG:HD2	1.87	0.56
30:S3:38:LYS:HB2	30:S3:41:TRP:HB2	1.87	0.56
25:SO:184:ASN:OD1	25:SO:398:TYR:OH	2.24	0.56
24:TH:6:SER:HA	24:TH:136:LEU:HB2	1.88	0.56
24:TH:209:ILE:HG23	24:TH:230:LEU:HD11	1.88	0.56
25:TI:248:ALA:HA	25:TI:252:LYS:HG3	1.88	0.56
33:U0:75:GLN:O	33:U0:77:ASN:ND2	2.39	0.56
24:UB:268:MET:SD	24:UB:380:ASN:ND2	2.79	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:UO:212:PHE:HZ	24:UP:326:LYS:HD3	1.71	0.56
25:VC:288:GLU:OE1	25:VC:291:GLN:NE2	2.39	0.56
25:WE:207:LEU:HD21	25:WE:300:MET:HE2	1.87	0.56
24:WH:272:TYR:HB3	24:WH:275:ILE:HD11	1.87	0.56
24:WL:320:ARG:HG2	24:WL:356:ASN:HB3	1.87	0.56
25:WM:198:GLU:HA	25:WM:264:HIS:HB2	1.87	0.56
25:WO:68:LEU:HB3	25:WO:96:GLY:HA2	1.88	0.56
40:Y2:415:HIS:ND1	40:Y2:416:ARG:O	2.32	0.56
25:YC:100:ASN:ND2	25:YC:397:TRP:O	2.37	0.56
24:YD:209:ILE:HG23	24:YD:230:LEU:HD11	1.87	0.56
25:YG:290:THR:HG21	25:YG:329:GLN:HB3	1.88	0.56
25:YI:86:ARG:NH2	25:YI:123:GLU:OE1	2.36	0.56
24:YN:50:ASN:O	24:YN:64:ARG:NH1	2.39	0.56
41:Z1:556:ARG:HE	41:Z1:560:ARG:HH12	1.53	0.56
25:ZI:220:PRO:HD2	24:ZJ:326:LYS:HB2	1.87	0.56
24:ZP:240:ALA:HA	24:ZP:243:ARG:HE	1.71	0.56
2:1A:1813:ARG:HB3	41:Z0:275:ARG:HH22	1.70	0.56
2:1A:2272:ARG:HH22	18:C0:1511:PRO:HG3	1.70	0.56
2:1D:1334:GLU:HG2	2:1D:1337:ARG:HH21	1.71	0.56
43:1D:2602:ANP:O2B	43:1D:2602:ANP:O2A	2.23	0.56
16:A1:28:ILE:HG22	16:A1:30:GLY:H	1.69	0.56
17:B2:307:ASN:HB2	17:B2:310:LYS:HE3	1.87	0.56
18:C3:853:HIS:HB3	18:C3:856:PHE:HB2	1.88	0.56
19:D4:114:SER:HB3	19:D4:117:LEU:HD23	1.87	0.56
19:D7:108:ARG:HB3	19:D7:148:THR:HG22	1.86	0.56
24:NB:65:CYS:SG	24:NB:66:ILE:N	2.79	0.56
25:NO:33:THR:O	25:NO:58:ARG:NH1	2.39	0.56
24:OH:252:ILE:O	24:OH:256:GLN:NE2	2.39	0.56
25:OI:253:LEU:HD11	25:OI:316:LEU:HD21	1.87	0.56
25:OI:330:MET:HB3	25:OI:349:VAL:HG21	1.87	0.56
24:ON:71:GLU:OE2	25:OO:2:ARG:NH1	2.39	0.56
25:PM:407:GLU:HA	25:PM:410:GLU:HB2	1.87	0.56
24:PP:265:ILE:HG23	24:PP:432:PHE:HE2	1.70	0.56
28:Q0:851:LYS:NZ	28:Q0:992:THR:OG1	2.39	0.56
28:Q0:2220:GLY:HA3	28:Q0:2252:ALA:HB2	1.88	0.56
28:Q0:2964:LEU:HD13	28:Q0:2995:LEU:HD12	1.87	0.56
28:Q1:1215:LEU:HD21	28:Q1:1264:LEU:HA	1.86	0.56
25:QM:12:CYS:SG	25:QM:13:GLY:N	2.79	0.56
24:RD:56:THR:HA	24:SD:285:GLN:HB2	1.88	0.56
24:RL:219:ILE:HG13	24:RL:222:PRO:HG3	1.88	0.56
25:RO:320:ARG:HD2	25:RO:355:ASP:HB2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:SJ:305:CYS:HB2	24:SJ:387:ILE:HD11	1.88	0.56
25:TG:184:ASN:OD1	25:TG:398:TYR:OH	2.23	0.56
24:TP:209:ILE:HD11	24:TP:302:MET:HB3	1.86	0.56
24:UP:273:ALA:HB3	24:UP:375:VAL:H	1.71	0.56
25:VC:234:SER:OG	25:VC:241:ARG:NH2	2.39	0.56
24:VD:80:THR:O	24:VD:84:ARG:NH2	2.38	0.56
25:WK:179:VAL:HG23	24:WL:352:LYS:HB2	1.88	0.56
39:X0:592:LYS:HA	39:X0:596:LEU:HD12	1.88	0.56
25:XC:290:THR:HG21	25:XC:329:GLN:HB3	1.88	0.56
24:XJ:98:ASP:O	24:XJ:105:ARG:NH2	2.38	0.56
24:XJ:387:ILE:HG12	24:XJ:390:ARG:HH12	1.71	0.56
25:XM:204:ASN:OD1	46:XM:502:GDP:O2'	2.24	0.56
24:YB:202:VAL:HA	24:YB:268:MET:HB2	1.88	0.56
24:ZD:97:GLU:OE2	25:ZE:131:GLN:NE2	2.38	0.56
2:1B:1324:GLY:O	2:1B:1327:HIS:NE2	2.38	0.56
2:1B:1422:ASP:HA	2:1B:1425:VAL:HG22	1.88	0.56
19:G3:178:GLU:O	19:G3:184:LYS:NZ	2.39	0.56
24:ND:207:GLU:HA	24:ND:210:TYR:HB2	1.87	0.56
24:NF:104:ALA:HB2	24:NF:413:MET:HG2	1.86	0.56
24:NH:180:ALA:HB3	24:NH:183:GLU:HG3	1.88	0.56
25:NM:237:THR:HB	25:NM:240:LEU:HD12	1.88	0.56
24:PD:79:ARG:NH2	24:PD:92:LEU:O	2.39	0.56
24:PN:275:ILE:HG13	24:PN:368:LEU:HD21	1.88	0.56
28:Q0:947:TYR:OH	28:Q0:980:GLN:O	2.24	0.56
28:Q1:2074:LEU:HD22	28:Q1:2106:LEU:HD22	1.88	0.56
24:QF:259:LEU:HD21	24:QF:316:CYS:HB2	1.87	0.56
24:QH:36:MET:HG3	24:QH:38:SER:H	1.70	0.56
25:QQ:67:ASP:OD2	25:QQ:72:THR:OG1	2.23	0.56
29:R1:164:ARG:HE	29:R1:198:CYS:HA	1.71	0.56
24:RD:311:LYS:NZ	24:RD:438:GLU:OE2	2.36	0.56
25:RE:33:THR:O	25:RE:58:ARG:NH1	2.38	0.56
25:RK:386:THR:O	25:RK:390:ARG:NH1	2.39	0.56
24:SL:387:ILE:HG22	24:SL:390:ARG:HH22	1.71	0.56
25:TK:124:ALA:HB1	25:TK:130:LEU:HD11	1.86	0.56
24:TP:209:ILE:HG23	24:TP:230:LEU:HD11	1.88	0.56
24:UF:46:ASP:O	24:UF:50:ASN:ND2	2.39	0.56
25:UI:49:VAL:HG11	25:UI:241:ARG:HG2	1.87	0.56
25:VG:27:GLU:OE1	25:VG:241:ARG:NH1	2.37	0.56
24:VH:317:LEU:HB3	24:VH:319:TYR:HE1	1.71	0.56
25:VI:139:LEU:HD12	25:VI:170:VAL:HG12	1.88	0.56
44:WL:501:GTP:O3G	25:WM:252:LYS:NZ	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:WO:272:PRO:HG3	25:WO:364:SER:HA	1.88	0.56
25:XC:379:LYS:HB2	25:XC:419:VAL:HG21	1.87	0.56
25:XI:198:GLU:HA	25:XI:264:HIS:HB2	1.88	0.56
40:Y1:317:LYS:HD2	40:Y1:347:PRO:HG3	1.86	0.56
40:Y6:246:ALA:HB1	40:Y6:257:PRO:HA	1.88	0.56
24:YD:396:ASP:HB2	24:YD:422:ARG:HE	1.71	0.56
25:YO:66:MET:HE1	25:YO:147:MET:HG2	1.87	0.56
25:ZI:156:ARG:NH1	25:ZI:195:ASN:O	2.39	0.56
2:1C:59:LEU:HD12	2:1C:60:PRO:HD2	1.87	0.56
2:1C:1461:ARG:HG3	2:1C:1462:VAL:HG23	1.87	0.56
4:2A:371:ASP:O	4:2A:387:ARG:NH2	2.39	0.56
16:A2:137:PRO:HD2	25:YG:306:ARG:HH21	1.70	0.56
18:C4:174:LYS:NZ	24:WD:433:GLU:OE2	2.36	0.56
20:E2:389:GLY:O	20:E2:394:ARG:NH1	2.38	0.56
20:E3:396:GLU:OE2	24:VN:339:ARG:NH2	2.39	0.56
19:G0:41:GLY:HA3	32:T0:606:TRP:HZ3	1.70	0.56
19:H3:268:LYS:HB3	19:H3:301:TYR:HE1	1.71	0.56
19:J1:393:SER:OG	19:J1:394:ASP:N	2.39	0.56
19:K0:114:SER:HB3	19:K0:117:LEU:HD23	1.87	0.56
19:K3:114:SER:HB2	19:K3:116:GLU:HG3	1.87	0.56
23:N1:116:SER:O	23:N1:120:GLN:NE2	2.38	0.56
25:NG:237:THR:HG23	25:NG:241:ARG:HH11	1.71	0.56
25:OQ:272:PRO:HG3	25:OQ:364:SER:HA	1.88	0.56
24:PF:213:CYS:HB3	24:PF:222:PRO:HG2	1.89	0.56
24:PH:332:VAL:HG23	24:PH:351:PHE:HD2	1.71	0.56
28:Q0:2881:VAL:HG11	28:Q0:2961:PHE:HE2	1.70	0.56
44:QP:501:GTP:O3G	25:QQ:252:LYS:NZ	2.36	0.56
25:QQ:20:PHE:HA	25:QQ:230:SER:HB2	1.87	0.56
24:RH:170:THR:HG21	24:RH:194:LEU:HD21	1.88	0.56
24:RH:195:LEU:HD12	24:RH:264:ARG:HG2	1.87	0.56
32:T0:489:PRO:HA	32:T0:492:PHE:HB2	1.88	0.56
24:TB:271:SER:OG	24:TB:301:MET:SD	2.64	0.56
24:TH:264:ARG:NH1	24:TH:431:ASP:OD2	2.32	0.56
25:TK:375:GLN:HB2	25:TK:419:VAL:HG23	1.87	0.56
25:TM:248:ALA:HA	25:TM:252:LYS:HE2	1.88	0.56
25:TO:412:GLU:OE2	25:TO:416:ASN:ND2	2.40	0.56
24:UD:272:TYR:HB3	24:UD:275:ILE:HD11	1.87	0.56
25:UE:375:GLN:HB2	25:UE:419:VAL:HG23	1.87	0.56
25:UE:391:ARG:NH2	24:UF:439:SER:OG	2.39	0.56
25:VE:242:PHE:HB3	25:VE:356:ILE:HD13	1.87	0.56
24:VP:272:TYR:HB3	24:VP:275:ILE:HD11	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:WC:253:LEU:HD11	25:WC:316:LEU:HD21	1.88	0.56
24:WN:311:LYS:NZ	24:WN:436:GLY:O	2.35	0.56
39:X1:165:LEU:HB3	39:X1:185:LEU:HD11	1.88	0.56
25:XC:86:ARG:NH1	25:XC:89:ASN:OD1	2.39	0.56
24:XL:286:LEU:O	24:XL:373:ARG:NH2	2.39	0.56
40:Y3:360:VAL:HG11	40:Y3:412:MET:HG2	1.87	0.56
24:YD:174:SER:HB3	24:YD:177:VAL:HB	1.87	0.56
2:1A:2058:ARG:HG3	18:C0:1585:ARG:HH22	1.70	0.55
2:1B:1461:ARG:HG3	2:1B:1462:VAL:HG23	1.88	0.55
16:A0:128:ARG:O	25:YO:297:LYS:NZ	2.39	0.55
18:C3:806:PRO:HG3	18:C3:1168:TRP:HH2	1.70	0.55
19:D1:156:ASN:HB3	19:D1:159:LEU:HG	1.88	0.55
19:G4:42:ALA:O	19:G4:46:LEU:HB2	2.06	0.55
19:H1:46:LEU:HD23	19:H1:49:LEU:HD23	1.88	0.55
19:H6:365:ARG:NH1	19:H6:403:ALA:O	2.40	0.55
19:I0:275:VAL:HG11	19:I0:298:LEU:HD11	1.87	0.55
19:I0:317:LEU:HA	19:I0:320:ILE:HG12	1.88	0.55
19:K2:47:ARG:HH22	19:K2:65:LEU:HD21	1.71	0.55
19:K2:405:LYS:HE3	19:K2:449:ALA:HB2	1.88	0.55
19:K3:203:GLN:HA	19:K3:206:VAL:HG22	1.86	0.55
22:M1:124:CYS:SG	22:M1:125:GLU:N	2.77	0.55
25:NK:325:GLU:HA	25:NK:328:GLU:HG2	1.87	0.55
24:PP:28:HIS:CE1	24:PP:244:PHE:CZ	2.94	0.55
28:Q1:2606:ALA:HB1	28:Q1:2977:GLY:HA2	1.88	0.55
25:QQ:330:MET:HB3	25:QQ:349:VAL:HG21	1.87	0.55
29:R1:185:GLU:HA	29:R1:188:LYS:HD2	1.88	0.55
25:RI:313:ALA:HB3	25:RI:349:VAL:HG22	1.87	0.55
25:SC:315:ALA:N	25:SC:350:LYS:O	2.39	0.55
25:TC:22:GLU:HG2	25:TC:81:TYR:HD2	1.71	0.55
33:U0:195:SER:HB3	33:U0:198:GLU:HG2	1.87	0.55
25:UC:49:VAL:HG21	25:UC:241:ARG:HG2	1.88	0.55
24:UD:49:PHE:HB2	24:UD:53:PHE:HB2	1.87	0.55
25:UE:314:SER:HA	25:UE:350:LYS:HB3	1.88	0.55
24:UN:11:GLN:NE2	24:UN:15:GLN:OE1	2.38	0.55
24:VB:102:ASN:HB3	24:VB:105:ARG:HB2	1.87	0.55
25:VG:285:THR:OG1	25:VG:288:GLU:OE1	2.19	0.55
25:VK:262:ARG:NH1	25:VK:417:ASP:OD2	2.40	0.55
24:VL:3:GLU:HA	24:VL:51:THR:HA	1.87	0.55
25:VM:4:ILE:HB	25:VM:50:TYR:HE1	1.71	0.55
24:WB:89:PRO:HD2	24:XB:280:LYS:HZ3	1.70	0.55
24:WB:119:LEU:HD21	24:WB:156:ARG:HB3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:WI:113:ILE:HG13	25:WI:150:LEU:HD23	1.88	0.55
25:WM:207:LEU:HB3	25:WM:225:LEU:HD22	1.87	0.55
39:X1:188:LEU:HD21	39:X1:191:LEU:HD13	1.87	0.55
25:XC:141:GLY:O	25:XC:184:ASN:ND2	2.37	0.55
24:XD:333:ALA:O	24:XD:337:THR:OG1	2.20	0.55
25:XG:3:GLU:HA	25:XG:49:VAL:HA	1.88	0.55
24:XN:222:PRO:HD2	25:XO:324:LYS:HG2	1.88	0.55
40:Y1:301:ASP:HB2	40:Y1:314:LYS:HD3	1.88	0.55
40:Y3:413:THR:OG1	40:Y3:436:GLN:O	2.23	0.55
40:Y5:80:PRO:O	40:Y5:389:ASN:ND2	2.39	0.55
25:YC:156:ARG:NH2	25:YC:197:ASP:OD1	2.37	0.55
41:Z0:187:TYR:HB3	41:Z0:189:LEU:HG	1.87	0.55
41:Z0:344:GLY:H	41:Z0:371:PRO:HB2	1.71	0.55
24:ZH:98:ASP:O	24:ZH:105:ARG:NH1	2.39	0.55
2:1A:185:ALA:HB2	2:1A:1534:ARG:HH12	1.71	0.55
2:1D:2070:ARG:NH1	2:1D:2071:PRO:O	2.39	0.55
2:1D:2100:ARG:HD2	2:1D:2101:GLY:H	1.71	0.55
18:C1:246:ARG:HH12	19:D0:35:GLU:HG2	1.71	0.55
43:C1:2001:ANP:O2G	43:C1:2001:ANP:O1B	2.22	0.55
18:C3:500:ARG:NE	18:C3:552:ASP:OD1	2.40	0.55
19:D5:95:GLN:O	19:D5:100:LYS:NZ	2.29	0.55
19:H0:264:ASP:HB3	19:H0:267:VAL:HG22	1.88	0.55
19:H3:179:PRO:HA	19:H3:184:LYS:HE2	1.88	0.55
19:J0:324:SER:HB3	19:J0:327:LEU:HD13	1.88	0.55
19:J2:37:LEU:HD12	19:J2:42:ALA:HB2	1.88	0.55
19:J2:264:ASP:HB3	19:J2:267:VAL:HG22	1.88	0.55
19:K0:301:TYR:O	19:K0:305:SER:HB2	2.07	0.55
19:L0:70:ASN:OD1	19:L0:112:ARG:NH2	2.33	0.55
25:NC:103:LYS:HB2	25:NC:401:GLU:HG3	1.88	0.55
25:NO:47:ILE:HG22	25:NO:51:PHE:HB2	1.87	0.55
25:NO:309:ARG:NH2	25:NO:426:GLN:O	2.39	0.55
24:OD:88:HIS:HE1	24:PD:284:GLU:HG2	1.71	0.55
24:OF:15:GLN:NE2	44:OF:501:GTP:O6	2.39	0.55
24:OP:271:SER:OG	24:OP:301:MET:SD	2.64	0.55
28:Q0:2178:LEU:HD13	28:Q0:2202:ARG:HA	1.88	0.55
25:QI:48:ASN:O	25:QI:62:ARG:NH2	2.40	0.55
25:QI:68:LEU:HD12	25:QI:97:ALA:HB2	1.87	0.55
25:QK:49:VAL:HG11	25:QK:241:ARG:HG2	1.88	0.55
25:QQ:257:LEU:O	25:QQ:370:ASN:ND2	2.36	0.55
24:RN:160:ASP:OD1	24:SN:339:ARG:NH2	2.39	0.55
24:SB:280:LYS:HE3	24:SB:284:GLU:HB2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:TJ:186:ASN:OD1	24:TJ:408:TYR:OH	2.23	0.55
24:UD:402:ARG:NH1	24:UD:415:GLU:OE1	2.38	0.55
24:UF:259:LEU:HD23	24:UF:268:MET:HG2	1.88	0.55
24:VF:77:GLU:OE1	36:W5:5:UNK:N	2.39	0.55
25:VK:234:SER:O	25:VK:241:ARG:NH2	2.38	0.55
25:WE:19:LYS:HE3	25:WE:227:HIS:HD2	1.71	0.55
24:WJ:271:SER:OG	24:WJ:301:MET:SD	2.63	0.55
39:X1:177:ARG:HA	39:X1:198:LEU:HD12	1.87	0.55
24:XB:286:LEU:O	24:XB:373:ARG:NH1	2.39	0.55
24:XH:178:SER:OG	24:XH:183:GLU:OE1	2.24	0.55
24:XN:286:LEU:O	24:XN:373:ARG:NH1	2.39	0.55
40:Y0:225:ARG:HH21	40:Y1:100:LYS:HD3	1.70	0.55
40:Y1:128:LYS:HB3	40:Y1:131:GLU:HB2	1.87	0.55
25:YG:176:SER:OG	25:YG:178:THR:O	2.25	0.55
24:YH:76:ASP:HA	24:YH:79:ARG:HB2	1.88	0.55
24:ZN:164:LYS:O	24:ZN:166:LYS:NZ	2.40	0.55
43:1A:2602:ANP:O2B	43:1A:2602:ANP:O2A	2.25	0.55
4:2B:319:THR:HG21	4:2B:323:ARG:HE	1.71	0.55
14:8C:116:VAL:HG11	24:VH:357:TYR:HB2	1.89	0.55
14:8C:209:GLY:O	24:RH:373:ARG:NH2	2.39	0.55
17:B1:684:THR:HA	17:B1:687:GLU:HG3	1.87	0.55
17:B2:356:ARG:HH21	26:O1:430:GLN:HB3	1.71	0.55
18:C1:1515:ASP:OD1	18:C1:1517:ARG:NH1	2.39	0.55
18:C2:1307:ARG:NH1	18:C2:1330:PRO:O	2.39	0.55
20:E1:96:SER:OG	20:E1:97:LEU:N	2.39	0.55
19:G5:47:ARG:HG2	19:G5:84:ILE:HG13	1.89	0.55
19:L2:337:LEU:HB3	19:L2:377:THR:HG21	1.89	0.55
24:OD:217:LEU:HB3	24:OD:219:ILE:HG12	1.88	0.55
25:OK:290:THR:HA	25:OK:293:MET:HB2	1.89	0.55
25:PQ:6:HIS:HD2	25:PQ:8:GLN:HE21	1.53	0.55
25:QG:54:ALA:HA	25:RG:283:ALA:HB2	1.88	0.55
24:QN:72:PRO:HD2	25:QO:2:ARG:HH21	1.71	0.55
30:S1:112:GLY:HA3	24:VJ:2:ARG:HH12	1.71	0.55
25:SE:213:ARG:HH21	25:SE:297:LYS:HG2	1.71	0.55
32:T2:474:ARG:HH12	32:T2:511:ALA:HA	1.71	0.55
25:TO:274:THR:OG1	25:TO:279:GLN:OE1	2.24	0.55
25:UE:219:THR:HB	24:UF:324:VAL:HG11	1.88	0.55
24:UL:71:GLU:HB2	24:UL:98:ASP:HB3	1.89	0.55
24:UN:99:ALA:O	25:UO:251:ARG:NH2	2.39	0.55
25:UO:7:ILE:HD13	25:UO:151:LEU:HD21	1.88	0.55
25:UO:49:VAL:HG11	25:UO:241:ARG:HG2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:UO:309:ARG:NH2	25:UO:426:GLN:O	2.39	0.55
25:VE:220:PRO:HD2	24:VF:326:LYS:HE2	1.86	0.55
25:VO:179:VAL:HG13	25:VO:180:VAL:HG13	1.87	0.55
24:WJ:206:ASN:ND2	44:WJ:501:GTP:O2'	2.39	0.55
39:X0:189:LYS:HA	39:X0:210:LEU:HA	1.88	0.55
25:XA:100:ASN:HB3	25:XA:103:LYS:HB3	1.88	0.55
25:XC:19:LYS:HA	25:XC:22:GLU:HG2	1.87	0.55
25:XK:17:GLY:HA2	25:XK:20:PHE:HB3	1.89	0.55
40:Y4:453:GLN:OE1	40:Y4:456:ARG:NH1	2.29	0.55
24:YB:72:PRO:HB3	24:YB:94:SER:HB2	1.88	0.55
24:YJ:237:SER:HA	24:YJ:320:ARG:HD2	1.89	0.55
24:YP:297:GLU:HG3	24:YP:300:SER:H	1.71	0.55
2:1A:1835:GLU:HA	2:1A:1838:ARG:HG2	1.87	0.55
2:1C:71:LYS:HE3	2:1C:76:LEU:HD23	1.87	0.55
2:1C:1274:PHE:HA	2:1C:1277:VAL:HG12	1.89	0.55
2:1D:2055:ALA:HB1	18:C3:1588:ALA:HB2	1.87	0.55
14:8D:100:VAL:O	25:WC:276:ARG:NH2	2.39	0.55
18:C3:1342:VAL:HB	18:C3:1347:LYS:HE3	1.89	0.55
18:C4:157:ARG:HD3	25:WE:340:TYR:HE2	1.72	0.55
19:D4:46:LEU:HD23	19:D4:49:LEU:HD12	1.88	0.55
21:F3:21:ILE:HG21	21:F3:24:LYS:HE3	1.88	0.55
19:G0:85:LEU:HD21	19:G0:110:VAL:HG11	1.87	0.55
19:G0:341:VAL:HA	19:G0:344:LEU:HD12	1.88	0.55
19:G2:343:ALA:O	19:G2:353:LYS:NZ	2.39	0.55
19:G4:111:ALA:HB2	19:G4:121:VAL:HG21	1.88	0.55
19:J0:248:VAL:HG21	19:J0:285:LEU:HD22	1.88	0.55
19:J1:270:HIS:O	19:J1:273:THR:OG1	2.20	0.55
19:K0:35:GLU:OE2	19:K0:39:GLN:NE2	2.38	0.55
19:K1:79:VAL:HA	19:K1:84:ILE:HD13	1.87	0.55
19:L1:248:VAL:HG21	19:L1:285:LEU:HD11	1.89	0.55
22:M0:819:ARG:NH1	28:Q0:232:ASP:OD2	2.40	0.55
24:NH:105:ARG:HH12	25:NI:251:ARG:HH11	1.52	0.55
25:NM:257:LEU:HD11	25:NM:314:SER:HB3	1.88	0.55
24:OH:386:GLU:OE1	24:OH:390:ARG:NH2	2.38	0.55
25:OI:314:SER:HA	25:OI:350:LYS:HB3	1.87	0.55
25:OM:62:ARG:HH21	25:OM:127:CYS:HB3	1.71	0.55
25:OQ:31:ASP:OD1	25:OQ:35:THR:N	2.38	0.55
25:OQ:105:HIS:ND1	25:OQ:146:GLY:O	2.40	0.55
25:PG:67:ASP:OD2	25:PG:72:THR:OG1	2.24	0.55
24:PL:414:GLU:HG3	24:PL:416:GLY:H	1.71	0.55
24:PP:113:GLU:HG2	24:PP:114:ILE:HD12	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Q1:1527:ARG:NH2	28:Q1:2437:GLY:O	2.35	0.55
25:QC:249:ASP:OD2	25:QC:250:LEU:N	2.40	0.55
25:QM:4:ILE:HD11	25:QM:240:LEU:HD13	1.89	0.55
24:QN:272:TYR:HB3	24:QN:275:ILE:HD11	1.87	0.55
24:RH:206:ASN:OD1	44:RH:501:GTP:O2'	2.23	0.55
24:SB:137:VAL:HB	24:SB:168:GLY:HA2	1.88	0.55
24:SB:180:ALA:O	25:SC:347:ASN:ND2	2.39	0.55
25:SE:176:SER:OG	25:SE:178:THR:O	2.24	0.55
25:SM:161:ASP:OD2	25:SM:162:ARG:NH2	2.39	0.55
32:T0:410:VAL:HB	32:T0:450:PRO:HD2	1.87	0.55
24:TL:225:THR:HG22	24:TL:229:ARG:HH21	1.71	0.55
24:UH:206:ASN:ND2	44:UH:501:GTP:O2'	2.40	0.55
25:UI:318:ARG:HG2	25:UI:354:CYS:HB3	1.88	0.55
24:UP:90:GLU:OE2	24:UP:121:ARG:NH1	2.39	0.55
25:WO:48:ASN:O	25:WO:62:ARG:NH1	2.39	0.55
25:XK:325:GLU:HA	25:XK:328:GLU:HG3	1.88	0.55
24:XL:301:MET:HG3	24:XL:303:VAL:H	1.71	0.55
40:Y3:41:GLN:HA	40:Y3:72:LYS:HE3	1.88	0.55
40:Y3:58:SER:HB2	40:Y3:444:ARG:HH21	1.72	0.55
40:Y4:177:ALA:HB1	40:Y4:183:SER:HA	1.89	0.55
24:YB:397:LEU:HD23	25:YC:346:PRO:HD3	1.89	0.55
25:YE:207:LEU:HB3	25:YE:225:LEU:HD22	1.89	0.55
24:ZB:311:LYS:NZ	24:ZB:342:GLN:OE1	2.39	0.55
25:ZC:260:PHE:HB2	25:ZC:263:LEU:HD13	1.89	0.55
25:ZO:137:HIS:NE2	25:ZO:166:THR:OG1	2.38	0.55
2:1A:1604:LEU:HD13	2:1A:1701:LEU:HB3	1.87	0.55
2:1B:1604:LEU:HD13	2:1B:1701:LEU:HB3	1.89	0.55
2:1C:1422:ASP:HA	2:1C:1425:VAL:HG22	1.87	0.55
2:1C:2449:GLY:HA2	18:C2:1210:ARG:NH1	2.21	0.55
18:C2:391:ARG:HA	18:C2:394:GLN:HG2	1.89	0.55
19:D2:259:CYS:SG	19:D2:271:SER:OG	2.58	0.55
19:H3:122:ILE:HG21	19:H3:159:LEU:HD13	1.89	0.55
19:H5:222:ASP:HB3	19:H5:225:LEU:HD12	1.88	0.55
19:I1:34:ILE:HG23	19:I1:68:LEU:HD23	1.87	0.55
22:M1:742:ALA:HB1	28:Q1:2492:ASN:HB2	1.87	0.55
25:OK:171:PRO:HG3	25:OK:181:GLU:HB3	1.88	0.55
24:PH:3:GLU:HA	24:PH:51:THR:HA	1.88	0.55
24:PN:177:VAL:HG22	25:PO:331:LEU:HG	1.89	0.55
25:QC:313:ALA:HB3	25:QC:349:VAL:HG22	1.88	0.55
25:QG:216:LYS:HB2	25:QG:275:SER:HB3	1.88	0.55
25:QG:222:PHE:HA	25:QG:225:LEU:HD23	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:QJ:209:ILE:HG23	24:QJ:230:LEU:HD11	1.89	0.55
30:S0:90:HIS:CE1	25:WM:279:GLN:HB2	2.40	0.55
30:S3:25:TYR:OH	25:YC:355:ASP:O	2.25	0.55
24:TB:101:ASN:OD1	25:TC:252:LYS:NZ	2.30	0.55
24:TD:316:CYS:HA	24:TD:352:LYS:HB3	1.88	0.55
24:VJ:230:LEU:HD13	24:VJ:368:LEU:HD21	1.88	0.55
24:VP:70:LEU:HD12	24:VP:145:THR:HG22	1.88	0.55
24:WJ:238:LEU:HD22	24:WJ:378:ILE:HD11	1.89	0.55
24:WL:219:ILE:HG13	24:WL:222:PRO:HG3	1.89	0.55
25:WM:68:LEU:HG	25:WM:147:MET:HE1	1.88	0.55
25:XG:25:SER:HB2	25:XG:30:ILE:HB	1.88	0.55
24:XN:76:ASP:OD1	25:XO:46:ARG:NH2	2.39	0.55
25:YK:372:THR:OG1	25:YK:422:TYR:O	2.23	0.55
25:YO:396:HIS:HA	25:YO:399:THR:HG22	1.87	0.55
24:ZN:53:PHE:O	24:ZN:64:ARG:NH1	2.39	0.55
2:1B:59:LEU:HD12	2:1B:60:PRO:HD2	1.87	0.55
2:1B:1539:LYS:HG2	2:1B:2054:ARG:HH22	1.70	0.55
2:1C:1365:ASP:HB2	2:1C:1403:LEU:HD23	1.88	0.55
2:1D:371:LEU:N	2:1D:388:THR:O	2.40	0.55
5:2F:260:MET:H	5:2F:310:LEU:H	1.53	0.55
17:B2:344:ASN:ND2	25:RG:193:VAL:O	2.32	0.55
18:C0:1790:SER:O	18:C0:1795:ASN:ND2	2.39	0.55
18:C3:1247:GLU:HA	18:C3:1250:ARG:HG2	1.88	0.55
19:G5:37:LEU:HD23	19:G5:68:LEU:HD21	1.88	0.55
19:H4:302:ILE:O	19:H4:310:ARG:NH1	2.40	0.55
19:I0:287:GLN:HA	19:I0:290:VAL:HG22	1.89	0.55
19:J3:278:VAL:HG12	19:J3:285:LEU:HD21	1.87	0.55
19:K1:295:VAL:HG13	19:K1:317:LEU:HD21	1.87	0.55
19:K3:268:LYS:HB3	19:K3:301:TYR:HE1	1.71	0.55
19:L2:368:PRO:HB2	19:L2:422:HIS:HD2	1.72	0.55
23:N0:85:LEU:HA	23:N0:88:LEU:HD12	1.88	0.55
23:N1:114:HIS:CD2	23:N1:115:GLU:H	2.24	0.55
24:NL:73:THR:HG23	25:NM:2:ARG:HH12	1.72	0.55
24:OJ:175:PRO:HB3	24:OJ:390:ARG:HE	1.71	0.55
24:ON:206:ASN:OD1	44:ON:501:GTP:N2	2.38	0.55
25:PC:99:ASN:ND2	46:PC:501:GDP:O1A	2.37	0.55
24:PP:175:PRO:HB3	24:PP:390:ARG:HD2	1.89	0.55
24:PP:286:LEU:O	24:PP:373:ARG:NH2	2.39	0.55
28:Q1:852:ASN:O	28:Q1:856:ARG:CB	2.55	0.55
25:QE:248:ALA:HA	25:QE:252:LYS:HD2	1.89	0.55
25:QK:330:MET:HB3	25:QK:349:VAL:HG21	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:RD:173:PRO:O	24:RD:390:ARG:NH2	2.38	0.55
24:RJ:230:LEU:HA	24:RJ:233:GLN:HG2	1.89	0.55
24:SD:335:ILE:HD12	24:SD:338:LYS:HD3	1.87	0.55
25:SE:40:SER:HB3	25:SE:43:GLN:HG3	1.89	0.55
25:SG:16:ILE:HD11	25:SG:229:ILE:HB	1.88	0.55
25:SG:25:SER:HB2	25:SG:30:ILE:HB	1.89	0.55
25:SG:289:LEU:HD11	25:SG:363:MET:HB3	1.89	0.55
24:SP:193:SER:O	24:SP:197:HIS:ND1	2.40	0.55
24:SP:207:GLU:HA	24:SP:210:TYR:HB2	1.89	0.55
24:SP:271:SER:N	24:SP:377:MET:O	2.38	0.55
32:T1:412:SER:O	25:YI:420:SER:OG	2.25	0.55
25:TI:100:ASN:HB3	25:TI:103:LYS:HB2	1.88	0.55
25:UE:253:LEU:HD21	25:UE:316:LEU:HD21	1.88	0.55
25:UI:238:CYS:HB2	25:UI:318:ARG:HD3	1.89	0.55
25:UO:412:GLU:OE2	25:UO:416:ASN:ND2	2.39	0.55
25:VC:375:GLN:NE2	25:VC:423:GLN:OE1	2.38	0.55
25:WC:25:SER:HB2	25:WC:30:ILE:HB	1.89	0.55
25:WG:379:LYS:HB2	25:WG:419:VAL:HG21	1.88	0.55
24:XB:217:LEU:HD21	24:XB:275:ILE:HG22	1.89	0.55
24:YF:213:CYS:HA	24:YF:217:LEU:HB2	1.89	0.55
25:ZK:234:SER:O	25:ZK:241:ARG:NH2	2.33	0.55
24:ZL:186:ASN:OD1	24:ZL:408:TYR:OH	2.24	0.55
24:ZP:109:THR:HG21	24:ZP:411:GLU:HG2	1.89	0.55
2:1C:1270:GLY:HA3	2:1D:290:ALA:HA	1.88	0.55
2:1C:1580:VAL:HG22	2:1C:1704:VAL:HB	1.89	0.55
17:B1:519:VAL:HB	26:O1:366:ARG:HH21	1.72	0.55
18:C1:416:ARG:NH1	39:X1:317:LYS:O	2.40	0.55
18:C2:1787:LYS:O	18:C2:1791:VAL:HB	2.07	0.55
18:C2:1842:SER:O	41:Z2:578:LYS:NZ	2.36	0.55
19:H0:278:VAL:HG12	19:H0:285:LEU:HD21	1.89	0.55
19:H1:119:GLN:HA	19:H1:122:ILE:HG12	1.89	0.55
19:I0:344:LEU:O	19:I0:353:LYS:NZ	2.38	0.55
19:L2:76:ALA:HB1	19:L2:110:VAL:HG23	1.88	0.55
19:L3:372:LYS:HB2	19:L3:423:ARG:HD3	1.89	0.55
24:NN:399:TYR:O	24:NN:402:ARG:NH1	2.39	0.55
24:OH:271:SER:HB2	24:OH:377:MET:HB3	1.87	0.55
24:OJ:286:LEU:O	24:OJ:373:ARG:NH2	2.40	0.55
25:PE:415:MET:HA	25:PE:418:LEU:HB2	1.88	0.55
24:PF:123:ARG:NH2	24:PF:160:ASP:OD2	2.40	0.55
24:PP:264:ARG:NH1	24:PP:431:ASP:OD1	2.40	0.55
24:QH:56:THR:OG1	24:RH:284:GLU:O	2.25	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:RG:1:MET:SD	25:RG:1:MET:N	2.78	0.55
24:RH:137:VAL:HG21	24:RH:154:LEU:HD11	1.89	0.55
24:RH:250:VAL:HG23	24:RH:254:GLU:HG2	1.89	0.55
25:RK:319:GLY:N	25:RK:354:CYS:O	2.33	0.55
24:RN:112:LYS:HA	24:RN:115:VAL:HG12	1.88	0.55
24:SF:207:GLU:HA	24:SF:210:TYR:HB2	1.89	0.55
25:SG:7:ILE:HB	25:SG:135:VAL:HG23	1.87	0.55
25:TC:324:LYS:O	25:TC:328:GLU:N	2.28	0.55
24:TJ:21:TRP:HA	24:TJ:24:TYR:HB2	1.88	0.55
25:VI:131:GLN:O	25:VI:163:MET:CB	2.54	0.55
40:Y4:399:GLU:HA	40:Y4:402:ARG:HG2	1.87	0.55
24:YL:102:ASN:HD22	24:YL:105:ARG:HD3	1.72	0.55
24:YN:136:LEU:HD22	24:YN:167:LEU:HD23	1.88	0.55
41:Z0:457:LYS:NZ	41:Z0:458:ASP:OD1	2.39	0.55
41:Z3:205:ASP:HA	41:Z3:343:VAL:O	2.06	0.55
25:ZC:234:SER:O	25:ZC:241:ARG:NH2	2.40	0.55
24:ZJ:195:LEU:HD23	24:ZJ:264:ARG:HD2	1.89	0.55
24:ZN:184:PRO:HG3	24:ZN:394:LYS:HE3	1.89	0.55
25:ZO:85:PHE:HB2	25:ZO:90:PHE:HE1	1.70	0.55
19:G0:314:ILE:HD12	19:G0:356:THR:HB	1.89	0.55
19:G5:248:VAL:HG11	19:G5:285:LEU:HD22	1.89	0.55
19:H3:248:VAL:HG21	19:H3:285:LEU:HD22	1.88	0.55
19:K0:237:ALA:HB2	19:K0:247:VAL:HG21	1.88	0.55
19:K3:324:SER:HB3	19:K3:327:LEU:HB2	1.89	0.55
19:L2:264:ASP:HB3	19:L2:267:VAL:HG22	1.88	0.55
22:M1:948:GLN:OE1	28:Q1:1080:ARG:NH2	2.39	0.55
25:NC:236:ILE:HD12	25:NC:368:ILE:HD11	1.88	0.55
24:NH:11:GLN:NE2	24:NH:15:GLN:OE1	2.39	0.55
24:NH:332:VAL:HG13	24:NH:351:PHE:HD2	1.71	0.55
25:OE:7:ILE:HB	25:OE:135:VAL:HG12	1.89	0.55
25:PG:190:HIS:HD2	25:PG:411:ALA:HA	1.71	0.55
24:PH:90:GLU:HB3	24:QH:280:LYS:HE2	1.88	0.55
25:PO:48:ASN:O	25:PO:62:ARG:NH2	2.36	0.55
24:PP:50:ASN:O	24:PP:64:ARG:NH1	2.40	0.55
30:S0:90:HIS:HE2	25:WM:276:ARG:HA	1.72	0.55
24:SB:133:GLN:O	24:SB:165:SER:OG	2.24	0.55
25:SE:309:ARG:NH2	25:SE:426:GLN:O	2.40	0.55
32:T1:212:VAL:HA	32:T1:218:VAL:HA	1.88	0.55
25:TE:164:MET:HB3	25:TE:197:ASP:H	1.70	0.55
25:VC:396:HIS:HA	25:VC:399:THR:HG22	1.89	0.55
24:VJ:101:ASN:OD1	25:VK:252:LYS:NZ	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:VM:290:THR:HG21	25:VM:329:GLN:HB3	1.88	0.55
25:WE:207:LEU:HB3	25:WE:225:LEU:HD22	1.88	0.55
39:X3:165:LEU:HB3	39:X3:185:LEU:HD11	1.89	0.55
25:XK:135:VAL:HG21	25:XK:152:ILE:HD11	1.89	0.55
40:Y4:446:GLU:HG2	40:Y4:447:ARG:HD2	1.89	0.55
25:YE:184:ASN:OD1	25:YE:398:TYR:OH	2.25	0.55
25:YG:100:ASN:HB3	25:YG:103:LYS:HB2	1.87	0.55
24:YJ:9:ILE:HD13	24:YJ:150:GLY:HA2	1.88	0.55
24:ZD:6:SER:O	24:ZD:65:CYS:HA	2.07	0.55
24:ZF:176:GLN:NE2	24:ZF:207:GLU:OE1	2.40	0.55
24:ZN:177:VAL:HG21	25:ZO:327:ASP:HB3	1.88	0.55
2:1A:2047:SER:HB3	2:1A:2109:CYS:HB3	1.88	0.55
2:1B:2044:ALA:HB1	2:1B:2110:LEU:HD21	1.89	0.55
2:1B:2162:THR:HG23	2:1B:2293:ALA:H	1.72	0.55
2:1C:1603:GLN:HG2	2:1C:1922:TRP:HZ2	1.72	0.55
2:1C:1933:LEU:HD22	2:1C:1977:SER:HA	1.89	0.55
16:A3:150:ASN:HB3	16:A3:154:ARG:HH12	1.71	0.55
18:C0:1268:ARG:HA	18:C0:1271:VAL:HG12	1.89	0.55
18:C2:1600:SER:O	18:C2:1603:SER:OG	2.20	0.55
19:D6:294:GLY:O	19:D6:298:LEU:HB2	2.07	0.55
19:H0:405:LYS:O	19:H0:421:VAL:N	2.39	0.55
19:H4:92:LEU:O	19:H4:100:LYS:NZ	2.31	0.55
19:H4:372:LYS:HE2	19:H4:423:ARG:HA	1.89	0.55
19:J3:405:LYS:HB2	19:J3:449:ALA:HB2	1.89	0.55
19:K3:79:VAL:HA	19:K3:84:ILE:HD13	1.88	0.55
19:K3:302:ILE:O	19:K3:310:ARG:NE	2.40	0.55
19:L0:179:PRO:HG3	22:M1:92:LYS:HG2	1.88	0.55
19:L3:89:VAL:HA	19:L3:92:LEU:HD23	1.88	0.55
19:L3:97:ARG:HA	19:L3:100:LYS:HG2	1.87	0.55
22:M0:813:SER:HB3	28:Q0:683:ASP:HB3	1.89	0.55
24:NL:210:TYR:CD1	25:NM:324:LYS:HG3	2.42	0.55
25:NO:130:LEU:HD11	25:NO:133:PHE:HE1	1.71	0.55
24:OF:101:ASN:ND2	24:OF:142:GLY:O	2.40	0.55
24:OP:314:ALA:HB3	24:OP:380:ASN:HD22	1.72	0.55
25:OQ:129:CYS:SG	25:OQ:162:ARG:NH2	2.80	0.55
25:PI:19:LYS:NZ	25:PI:223:GLY:O	2.40	0.55
25:PI:330:MET:HB3	25:PI:349:VAL:HG21	1.88	0.55
28:Q1:1756:ARG:NH2	28:Q1:1865:GLU:OE2	2.39	0.55
24:QD:2:ARG:NE	24:QD:242:LEU:O	2.37	0.55
25:QE:341:PHE:HD1	25:QE:348:ASN:HD22	1.53	0.55
25:QG:49:VAL:HG11	25:QG:241:ARG:HG2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:RJ:100:ALA:HA	25:RK:252:LYS:HZ2	1.72	0.55
25:RK:391:ARG:NH2	24:RL:437:ALA:O	2.40	0.55
24:RL:230:LEU:HD22	24:RL:275:ILE:HD11	1.89	0.55
24:SH:273:ALA:HB3	24:SH:375:VAL:HB	1.88	0.55
24:SJ:27:GLU:OE1	24:SJ:243:ARG:NH2	2.39	0.55
25:SM:47:ILE:HG22	25:SM:51:PHE:HB2	1.89	0.55
25:SO:391:ARG:HH21	24:SP:439:SER:HB3	1.72	0.55
25:TK:25:SER:HB2	25:TK:30:ILE:HB	1.89	0.55
25:TK:176:SER:OG	25:TK:178:THR:O	2.23	0.55
25:TO:170:VAL:HG22	25:TO:203:ASP:HB3	1.89	0.55
24:UJ:271:SER:HB2	24:UJ:301:MET:HG3	1.88	0.55
24:UP:77:GLU:HA	24:UP:80:THR:HG22	1.89	0.55
34:V0:169:THR:HA	34:V0:179:TYR:O	2.07	0.55
25:WG:45:GLU:OE2	25:WG:46:ARG:NH1	2.40	0.55
24:WL:9:ILE:HG22	24:WL:146:GLY:HA2	1.89	0.55
24:XB:317:LEU:HB3	24:XB:319:TYR:HE1	1.71	0.55
24:XN:174:SER:HB2	24:XN:177:VAL:HB	1.89	0.55
40:Y2:419:GLU:HB2	40:Y2:446:GLU:HB2	1.87	0.55
40:Y5:154:LEU:HD11	40:Y5:389:ASN:HA	1.89	0.55
40:Y7:195:ILE:HG23	40:Y7:234:LEU:HD21	1.88	0.55
24:YJ:238:LEU:HD22	24:YJ:378:ILE:HD11	1.89	0.55
25:YK:282:ARG:NH1	25:YK:288:GLU:OE2	2.40	0.55
24:ZB:224:TYR:O	24:ZB:228:ASN:ND2	2.32	0.55
25:ZC:345:ILE:O	25:ZC:348:ASN:ND2	2.40	0.55
24:ZN:213:CYS:HA	24:ZN:217:LEU:HB2	1.89	0.55
2:1A:1324:GLY:O	2:1A:1327:HIS:NE2	2.40	0.55
4:2A:303:TYR:OH	4:2A:367:GLY:O	2.23	0.55
4:2A:315:VAL:O	4:2A:354:ALA:HA	2.06	0.55
4:2B:382:GLN:NE2	4:2B:383:THR:O	2.40	0.55
18:C1:409:ARG:HH21	27:P1:1003:THR:HA	1.70	0.55
19:D4:287:GLN:HA	19:D4:290:VAL:HG22	1.89	0.55
19:D4:329:LEU:HA	19:D4:332:ILE:HG22	1.89	0.55
19:D6:198:THR:HG23	19:D6:201:LEU:H	1.70	0.55
21:F2:170:CYS:SG	21:F2:171:ASP:N	2.79	0.55
19:G1:196:LYS:HG3	19:G1:197:HIS:HD2	1.71	0.55
19:G3:223:ALA:O	19:G3:227:ARG:HG3	2.07	0.55
25:NK:77:ARG:O	25:NK:83:GLN:NE2	2.40	0.55
24:OD:417:GLU:HA	24:OD:420:GLU:HG3	1.89	0.55
25:OI:286:VAL:HA	25:OI:289:LEU:HB2	1.89	0.55
25:PI:16:ILE:HD11	25:PI:229:ILE:HB	1.89	0.55
24:PJ:265:ILE:HG22	24:PJ:380:ASN:HD21	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Q0:2356:GLU:HG2	28:Q0:2357:PRO:HD3	1.89	0.55
28:Q1:2209:LEU:HD22	28:Q1:2642:LEU:HD11	1.90	0.55
28:Q1:2666:HIS:CE1	28:Q1:2976:VAL:HG21	2.41	0.55
25:QC:83:GLN:O	25:RC:281:TYR:OH	2.23	0.55
24:RD:259:LEU:HD21	24:RD:316:CYS:HB2	1.87	0.55
25:RE:134:GLN:HA	25:RE:165:LEU:HB2	1.89	0.55
25:RG:396:HIS:HA	25:RG:399:THR:HG22	1.89	0.55
25:RO:209:ASP:OD1	25:RO:213:ARG:NH2	2.39	0.55
30:S0:45:ARG:H	24:XN:48:ALA:HB2	1.72	0.55
30:S2:19:PRO:HB3	24:XF:57:GLY:HA3	1.88	0.55
25:SE:173:PRO:HD2	25:SE:205:GLU:HG2	1.89	0.55
24:SJ:336:LYS:HG2	24:SJ:343:PHE:HE2	1.72	0.55
24:TD:414:GLU:HG3	24:TD:416:GLY:H	1.71	0.55
24:TH:90:GLU:HB3	24:TH:121:ARG:HH12	1.72	0.55
25:TI:20:PHE:HA	25:TI:230:SER:HB2	1.88	0.55
25:TO:14:ASN:ND2	25:TO:72:THR:OG1	2.37	0.55
25:TO:49:VAL:HG21	25:TO:241:ARG:HG2	1.89	0.55
24:TP:274:PRO:HD2	24:TP:374:ALA:HA	1.89	0.55
25:UG:221:THR:HG23	25:UG:223:GLY:H	1.71	0.55
25:UG:319:GLY:N	25:UG:354:CYS:O	2.37	0.55
24:UN:71:GLU:HB2	24:UN:98:ASP:HB3	1.88	0.55
24:VP:192:HIS:HD2	24:VP:421:ALA:HA	1.72	0.55
25:WK:238:CYS:HB2	25:WK:318:ARG:HH11	1.71	0.55
25:WO:11:GLN:HA	25:WO:72:THR:HG21	1.89	0.55
25:WO:290:THR:HG21	25:WO:329:GLN:HB3	1.86	0.55
25:XI:202:LEU:HD13	25:XI:229:ILE:HD12	1.88	0.55
40:Y3:335:SER:HA	40:Y3:358:GLN:HB3	1.89	0.55
24:YB:175:PRO:HB3	24:YB:390:ARG:HE	1.72	0.55
25:YG:237:THR:HG23	25:YG:241:ARG:HE	1.72	0.55
24:YP:1:MET:SD	24:YP:50:ASN:ND2	2.80	0.55
25:ZC:213:ARG:HH12	25:ZC:297:LYS:HD2	1.72	0.55
24:ZN:90:GLU:O	24:ZN:121:ARG:NH1	2.40	0.55
24:ZP:32:PRO:HA	24:ZP:86:LEU:HD12	1.87	0.55
24:ZP:384:ILE:HA	24:ZP:387:ILE:HD12	1.87	0.55
2:1A:2269:PRO:HB3	2:1A:2274:GLY:HA2	1.89	0.54
2:1A:2286:ARG:HD2	2:1A:2288:TRP:HZ2	1.73	0.54
2:1D:1550:SER:O	2:1D:1970:ARG:NH1	2.40	0.54
18:C1:1171:LEU:HD13	18:C1:1301:ALA:HB1	1.90	0.54
18:C2:594:LEU:H	18:C2:763:ARG:HG2	1.70	0.54
18:C3:39:ASN:HB3	18:C3:40:LEU:HD12	1.89	0.54
18:C3:715:LEU:HA	18:C3:718:LYS:HE2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:D1:265:GLU:OE1	19:D1:309:ASN:ND2	2.35	0.54
19:G3:203:GLN:HA	19:G3:206:VAL:HG22	1.89	0.54
19:G3:257:LEU:HD11	19:G3:294:GLY:HA2	1.88	0.54
19:G3:383:LEU:HD12	19:G3:401:ARG:HH22	1.71	0.54
19:I1:52:ASP:O	19:I1:58:GLN:NE2	2.41	0.54
19:I1:349:GLU:HG3	19:I1:352:LEU:HD12	1.88	0.54
19:J3:46:LEU:HA	19:J3:49:LEU:HD12	1.89	0.54
19:J3:211:VAL:HA	19:J3:214:LEU:HB3	1.89	0.54
19:K3:29:LYS:HA	19:K3:67:ARG:HD3	1.89	0.54
19:L2:301:TYR:O	19:L2:305:SER:HB2	2.06	0.54
19:L3:135:GLU:HG3	19:L3:171:LEU:HD11	1.89	0.54
24:NB:206:ASN:OD1	44:NB:501:GTP:N2	2.39	0.54
25:OE:36:TYR:OH	25:OE:40:SER:O	2.25	0.54
25:PK:14:ASN:ND2	25:PK:73:MET:SD	2.80	0.54
24:PN:90:GLU:HB3	24:PN:121:ARG:HH22	1.73	0.54
24:QD:392:ASP:O	24:QD:422:ARG:NH1	2.33	0.54
24:QF:345:ASP:OD1	24:QF:345:ASP:N	2.41	0.54
25:QG:204:ASN:OD1	46:QG:501:GDP:O2'	2.25	0.54
25:QM:54:ALA:HB3	25:QM:58:ARG:HB3	1.89	0.54
25:QQ:271:THR:HA	25:QQ:298:ASN:HD21	1.71	0.54
25:RE:274:THR:HG21	25:RE:282:ARG:HD3	1.89	0.54
25:RE:407:GLU:HA	25:RE:410:GLU:HB3	1.89	0.54
24:RJ:205:ASP:HB3	24:RJ:303:VAL:HA	1.89	0.54
25:RK:7:ILE:HG22	25:RK:64:ILE:HB	1.87	0.54
25:RO:7:ILE:HB	25:RO:135:VAL:HG12	1.88	0.54
25:SI:256:ASN:HD22	25:SI:350:LYS:HD2	1.72	0.54
32:T2:525:LYS:HD2	32:T2:528:LEU:HD12	1.89	0.54
25:TC:207:LEU:HB3	25:TC:225:LEU:HD22	1.89	0.54
25:UC:187:LEU:HD11	25:UC:408:PHE:HE2	1.72	0.54
25:UC:396:HIS:HA	25:UC:399:THR:HG22	1.88	0.54
25:UM:219:THR:HB	24:UN:324:VAL:HG11	1.89	0.54
24:VH:237:SER:HA	24:VH:320:ARG:HD2	1.88	0.54
24:VN:188:VAL:HG22	24:VN:425:LEU:HD22	1.89	0.54
25:WG:354:CYS:SG	25:WG:355:ASP:N	2.80	0.54
25:WO:270:PHE:H	25:WO:300:MET:HE2	1.73	0.54
39:X2:188:LEU:HD21	39:X2:191:LEU:HD13	1.88	0.54
39:X2:195:HIS:HA	39:X2:217:HIS:HB2	1.88	0.54
39:X3:593:HIS:CE1	39:X3:595:ALA:HB3	2.42	0.54
25:XE:6:HIS:NE2	25:XE:136:CYS:SG	2.78	0.54
25:XK:183:TYR:HB3	25:XK:398:TYR:HE2	1.72	0.54
40:Y3:79:VAL:HG23	40:Y3:154:LEU:HD23	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:YC:103:LYS:HB3	25:YC:401:GLU:HG3	1.90	0.54
25:YI:110:ALA:HA	25:YI:113:ILE:HG22	1.88	0.54
25:YI:132:GLY:HA3	25:YI:163:MET:O	2.08	0.54
25:YO:139:LEU:HD12	25:YO:170:VAL:HG12	1.88	0.54
24:ZH:259:LEU:HD11	24:ZH:316:CYS:HB2	1.88	0.54
2:1B:2095:TYR:OH	2:1B:2101:GLY:O	2.25	0.54
2:1D:59:LEU:HD12	2:1D:60:PRO:HD2	1.89	0.54
2:1D:1322:LEU:HD21	2:1D:1325:PHE:HB3	1.88	0.54
7:2N:156:GLU:HA	9:3N:155:ALA:HB3	1.88	0.54
14:8D:116:VAL:HG11	24:VD:357:TYR:HB3	1.88	0.54
16:A0:175:THR:OG1	24:YN:423:GLU:OE1	2.21	0.54
17:B0:566:ARG:NH1	25:RO:404:ASP:OD1	2.40	0.54
18:C1:586:LEU:HD23	18:C1:589:ILE:HG21	1.88	0.54
19:D0:266:PHE:HA	19:D0:269:LYS:HG2	1.89	0.54
19:D2:70:ASN:OD1	19:D2:112:ARG:NH2	2.37	0.54
20:E0:57:LYS:NZ	24:UL:341:ILE:O	2.40	0.54
20:E2:390:MET:SD	20:E2:394:ARG:NH2	2.80	0.54
21:F1:124:LEU:HB2	21:F1:173:VAL:HG13	1.90	0.54
19:G0:217:LEU:HB2	19:G0:229:VAL:HG21	1.88	0.54
19:H2:266:PHE:O	19:H2:270:HIS:ND1	2.33	0.54
19:I1:95:GLN:O	19:I1:100:LYS:NZ	2.37	0.54
19:I1:287:GLN:HA	19:I1:290:VAL:HG22	1.89	0.54
19:I1:347:GLU:HA	19:I1:353:LYS:HE2	1.89	0.54
19:J1:305:SER:HB3	19:J1:310:ARG:HE	1.71	0.54
23:N2:56:LEU:HD12	23:N3:18:LEU:HD22	1.89	0.54
24:NF:238:LEU:HD12	24:NF:239:THR:HG23	1.90	0.54
25:NK:314:SER:HA	25:NK:350:LYS:HB3	1.89	0.54
25:OO:372:THR:OG1	25:OO:422:TYR:O	2.25	0.54
25:OO:421:GLU:HA	25:OO:424:GLN:HG3	1.88	0.54
24:OP:96:LYS:HE3	25:OQ:1:MET:HG3	1.88	0.54
24:PL:392:ASP:HA	24:PL:422:ARG:HH12	1.73	0.54
25:PO:330:MET:HB3	25:PO:349:VAL:HG11	1.90	0.54
28:Q1:2964:LEU:HD13	28:Q1:2995:LEU:HD12	1.89	0.54
24:QD:70:LEU:HA	24:QD:95:GLY:HA3	1.89	0.54
25:QK:324:LYS:HA	25:QK:327:ASP:HB2	1.88	0.54
24:QL:180:ALA:O	25:QM:347:ASN:ND2	2.41	0.54
25:QM:122:LYS:NZ	25:RM:291:GLN:OE1	2.39	0.54
25:RE:140:GLY:O	25:RE:184:ASN:ND2	2.40	0.54
24:RJ:71:GLU:HG2	24:RJ:73:THR:HG22	1.88	0.54
24:RL:390:ARG:NH1	24:RL:394:LYS:HE3	2.23	0.54
24:TH:154:LEU:HD21	24:TH:198:THR:HG23	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:TM:49:VAL:HG21	25:TM:241:ARG:HG2	1.88	0.54
24:TN:66:ILE:HA	24:TN:91:GLN:HB3	1.90	0.54
25:TO:156:ARG:HH22	25:TO:197:ASP:HB2	1.72	0.54
24:UF:11:GLN:OE1	25:UG:247:ASN:ND2	2.41	0.54
24:UN:259:LEU:HD11	24:UN:316:CYS:HB2	1.89	0.54
25:VG:52:ASN:OD1	25:VG:62:ARG:NH2	2.40	0.54
24:VH:50:ASN:O	24:VH:64:ARG:NH1	2.41	0.54
25:VI:3:GLU:HA	25:VI:49:VAL:HA	1.89	0.54
25:WC:98:GLY:HA2	24:WD:254:GLU:HG2	1.88	0.54
25:XA:176:SER:OG	25:XA:178:THR:O	2.25	0.54
25:XC:64:ILE:HD11	25:XC:123:GLU:HG3	1.89	0.54
24:XD:119:LEU:HD21	24:XD:156:ARG:HB3	1.89	0.54
24:XD:178:SER:OG	24:XD:180:ALA:O	2.25	0.54
25:XE:7:ILE:HB	25:XE:135:VAL:HG12	1.88	0.54
25:YI:140:GLY:O	25:YI:184:ASN:ND2	2.38	0.54
2:1B:1935:LEU:HB2	2:1B:1952:GLN:HG3	1.89	0.54
2:1B:2144:ARG:NH2	2:1B:2145:PRO:O	2.40	0.54
16:A1:160:LEU:HD11	24:YJ:386:GLU:HB3	1.90	0.54
18:C0:1826:PRO:HD2	18:C0:1913:ARG:HH21	1.72	0.54
18:C2:1516:LEU:HB2	18:C2:1523:LEU:HD11	1.89	0.54
19:D1:288:LEU:O	19:D1:292:ASN:ND2	2.41	0.54
19:G0:199:PRO:HG3	19:G0:239:HIS:HB3	1.90	0.54
19:G0:348:PRO:HD2	19:G0:352:LEU:HD11	1.88	0.54
19:G2:276:ARG:HH12	19:G2:319:TYR:HD2	1.53	0.54
19:G5:30:ASN:ND2	19:G5:33:ASN:OD1	2.39	0.54
19:G5:50:LEU:O	19:G5:58:GLN:NE2	2.39	0.54
19:I1:37:LEU:HD12	19:I1:42:ALA:HB2	1.89	0.54
19:J0:347:GLU:HA	19:J0:353:LYS:HE3	1.89	0.54
19:K3:335:LYS:HE2	19:K3:338:PRO:HG2	1.90	0.54
19:L1:72:SER:OG	19:L1:74:ASP:OD1	2.26	0.54
25:NI:309:ARG:HG3	25:NI:426:GLN:HE22	1.71	0.54
24:NL:217:LEU:HD11	24:NL:367:ASP:HB3	1.89	0.54
25:OE:6:HIS:CD2	25:OE:8:GLN:HE21	2.26	0.54
25:OE:14:ASN:ND2	25:OE:72:THR:OG1	2.39	0.54
24:OH:259:LEU:HD12	24:OH:268:MET:HE1	1.89	0.54
25:PE:164:MET:HB2	25:PE:197:ASP:H	1.72	0.54
25:PG:7:ILE:HG23	25:PG:64:ILE:HG23	1.89	0.54
24:PH:113:GLU:HG2	24:PH:114:ILE:HD12	1.90	0.54
24:QF:209:ILE:HG23	24:QF:230:LEU:HD11	1.89	0.54
25:QI:131:GLN:HE21	25:QI:250:LEU:HB2	1.71	0.54
24:QJ:175:PRO:HB3	24:QJ:390:ARG:HD2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:QL:70:LEU:HD21	24:QL:114:ILE:HG21	1.89	0.54
24:SB:259:LEU:HD11	24:SB:316:CYS:HB2	1.89	0.54
25:SG:135:VAL:HG11	25:SG:152:ILE:HD11	1.89	0.54
25:SG:313:ALA:HB1	25:SG:367:PHE:HE1	1.73	0.54
25:UC:164:MET:HB2	25:UC:197:ASP:H	1.73	0.54
25:UE:259:PRO:HG2	25:UE:311:LEU:HD23	1.90	0.54
25:UI:83:GLN:O	25:VI:281:TYR:OH	2.24	0.54
24:VF:396:ASP:OD1	24:VF:422:ARG:NE	2.38	0.54
24:VN:268:MET:SD	24:VN:380:ASN:ND2	2.81	0.54
25:WC:330:MET:HB3	25:WC:349:VAL:HG21	1.89	0.54
25:WE:135:VAL:HG21	25:WE:152:ILE:HD11	1.88	0.54
25:WG:98:GLY:HA2	24:WH:254:GLU:HG2	1.89	0.54
25:WM:20:PHE:HA	25:WM:230:SER:HB2	1.89	0.54
39:X0:281:THR:HG22	39:X0:307:VAL:HB	1.89	0.54
25:XC:204:ASN:OD1	46:XC:501:GDP:O2'	2.26	0.54
25:XI:248:ALA:HA	25:XI:252:LYS:HG2	1.88	0.54
40:Y7:16:VAL:HA	40:Y7:19:VAL:HG12	1.90	0.54
40:Y7:358:GLN:HG3	40:Y7:473:ARG:HH12	1.72	0.54
24:YD:322:ASP:O	24:YD:373:ARG:NH2	2.35	0.54
24:ZD:194:LEU:O	24:ZD:198:THR:OG1	2.26	0.54
25:ZE:2:ARG:HB3	25:ZE:131:GLN:HB2	1.89	0.54
25:ZE:22:GLU:HA	25:ZE:81:TYR:HD1	1.72	0.54
25:ZK:156:ARG:NH1	25:ZK:195:ASN:O	2.40	0.54
2:1D:2026:VAL:HA	2:1D:2095:TYR:O	2.07	0.54
4:2B:349:LEU:HD21	4:2B:355:ALA:HB2	1.90	0.54
15:9A:49:TYR:HA	15:9A:285:ALA:HB3	1.89	0.54
17:B0:765:THR:HA	17:B0:768:THR:HG22	1.89	0.54
17:B1:681:GLU:HG2	24:RD:342:GLN:HE22	1.72	0.54
18:C0:408:LEU:HD23	18:C0:411:ARG:HH21	1.72	0.54
18:C0:1490:SER:HB3	18:C0:1521:GLU:HG2	1.90	0.54
19:D7:324:SER:HB3	19:D7:327:LEU:HG	1.89	0.54
21:F1:24:LYS:O	21:F1:26:GLN:NE2	2.40	0.54
21:F3:328:LYS:O	21:F3:404:PHE:N	2.40	0.54
19:G0:405:LYS:O	19:G0:421:VAL:N	2.41	0.54
19:G4:17:ARG:NH1	19:G4:52:ASP:OD2	2.40	0.54
19:G5:322:ALA:O	19:G5:365:ARG:NH1	2.41	0.54
19:H3:185:ARG:NH2	19:H3:186:ILE:HG13	2.21	0.54
19:H4:69:ALA:O	19:H4:113:HIS:NE2	2.36	0.54
19:H7:275:VAL:HG11	19:H7:298:LEU:HD21	1.89	0.54
19:J1:134:LEU:HB3	19:J1:171:LEU:HD13	1.87	0.54
19:J2:17:ARG:NH1	19:J2:52:ASP:OD2	2.39	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:J2:329:LEU:HD13	19:J2:332:ILE:HD11	1.89	0.54
19:J3:113:HIS:HB2	19:J3:117:LEU:HD12	1.89	0.54
19:K2:132:THR:OG1	26:O1:589:LYS:NZ	2.38	0.54
19:L1:337:LEU:HD23	19:L1:340:LEU:HD12	1.88	0.54
25:NI:178:THR:HA	24:NJ:352:LYS:HD2	1.89	0.54
24:OH:240:ALA:HA	24:OH:243:ARG:HE	1.72	0.54
25:OM:178:THR:HB	25:OM:181:GLU:HG3	1.88	0.54
25:OM:207:LEU:HB3	25:OM:225:LEU:HD22	1.89	0.54
25:PG:33:THR:O	25:PG:58:ARG:NE	2.39	0.54
24:PL:272:TYR:HB3	24:PL:275:ILE:HD11	1.89	0.54
24:PN:318:MET:HB2	24:PN:376:CYS:HB3	1.90	0.54
25:PO:49:VAL:HG11	25:PO:241:ARG:HG2	1.90	0.54
28:Q0:2661:THR:HB	28:Q0:2699:THR:HG22	1.89	0.54
28:Q1:94:ARG:NH1	28:Q1:122:CYS:SG	2.80	0.54
24:QN:262:TYR:HB2	24:QN:265:ILE:HG12	1.89	0.54
25:QO:108:GLU:HA	25:QO:111:GLU:HB3	1.89	0.54
25:RK:67:ASP:OD2	25:RK:72:THR:OG1	2.25	0.54
25:RM:86:ARG:HG3	25:RM:88:ASP:H	1.71	0.54
24:TJ:402:ARG:NH2	24:TJ:415:GLU:OE2	2.40	0.54
24:TN:213:CYS:HA	24:TN:217:LEU:HB3	1.89	0.54
25:UG:189:VAL:HA	25:UG:192:LEU:HB2	1.89	0.54
25:UM:2:ARG:HD2	25:UM:240:LEU:HD22	1.90	0.54
24:UN:76:ASP:OD2	25:UO:46:ARG:NH2	2.40	0.54
25:UO:171:PRO:HG3	25:UO:181:GLU:HB3	1.88	0.54
24:VB:264:ARG:NH1	24:VB:431:ASP:OD2	2.40	0.54
24:VF:136:LEU:HD13	24:VF:235:ILE:HD11	1.90	0.54
25:VM:247:ASN:O	25:VM:252:LYS:NZ	2.38	0.54
25:WC:31:ASP:OD1	25:WC:35:THR:N	2.40	0.54
24:WF:127:ASP:OD1	24:XF:293:ASN:ND2	2.40	0.54
24:WN:251:ASP:H	24:WN:254:GLU:HB2	1.73	0.54
39:X2:106:ARG:HH11	39:X2:130:LEU:HD23	1.72	0.54
39:X2:150:ARG:HA	39:X2:172:HIS:HB2	1.90	0.54
25:XG:124:ALA:HB1	25:XG:130:LEU:HD11	1.89	0.54
40:Y5:387:LYS:HB2	40:Y5:390:GLN:HG2	1.88	0.54
41:Z2:199:ARG:HD3	41:Z2:218:ILE:HD11	1.90	0.54
41:Z3:44:ALA:N	41:Z3:51:LEU:O	2.39	0.54
24:ZF:73:THR:HG22	25:ZG:46:ARG:HH12	1.70	0.54
24:ZH:296:PHE:HE2	24:ZH:335:ILE:HG13	1.73	0.54
25:ZK:330:MET:HB3	25:ZK:349:VAL:HG11	1.88	0.54
24:ZN:79:ARG:HG2	24:ZN:92:LEU:HD13	1.88	0.54
2:1B:1322:LEU:HD21	2:1B:1325:PHE:HB3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1D:2199:THR:O	18:C3:1749:GLN:NE2	2.39	0.54
6:2H:535:TYR:HA	6:2H:542:PRO:HA	1.88	0.54
17:B1:344:ASN:HB3	25:RO:194:GLU:HA	1.88	0.54
18:C1:1174:GLY:O	18:C1:1298:ARG:NH1	2.40	0.54
18:C2:795:LEU:HD13	18:C2:813:VAL:HA	1.89	0.54
19:D4:88:LEU:HD11	19:D4:106:CYS:HB3	1.90	0.54
20:E1:404:LEU:HB2	20:E1:407:ALA:HB2	1.88	0.54
19:G3:383:LEU:HA	19:G3:386:LEU:HB2	1.90	0.54
19:G5:237:ALA:HB2	19:G5:247:VAL:HG21	1.89	0.54
19:J2:79:VAL:HG13	19:J2:84:ILE:HB	1.89	0.54
19:K0:338:PRO:HA	19:K0:341:VAL:HG12	1.89	0.54
19:L0:240:SER:OG	19:L0:242:ASP:OD1	2.23	0.54
19:L1:338:PRO:HA	19:L1:341:VAL:HG22	1.88	0.54
24:NH:27:GLU:HA	24:NH:361:THR:HG21	1.88	0.54
24:NH:322:ASP:O	24:NH:373:ARG:NH1	2.40	0.54
24:NL:292:THR:HG1	24:NL:319:TYR:HH	1.54	0.54
25:NM:113:ILE:HG13	25:NM:150:LEU:HD23	1.89	0.54
24:OF:305:CYS:SG	24:OF:306:ASP:N	2.80	0.54
25:OI:50:TYR:HH	25:OI:237:THR:HG1	1.56	0.54
25:OO:164:MET:HB3	25:OO:197:ASP:H	1.73	0.54
25:OQ:66:MET:HE3	25:OQ:116:VAL:HG21	1.89	0.54
24:PJ:404:PHE:HZ	25:PK:312:THR:HG21	1.73	0.54
24:PL:50:ASN:O	24:PL:64:ARG:NH1	2.41	0.54
24:PN:209:ILE:HG23	24:PN:230:LEU:HD11	1.89	0.54
25:PO:113:ILE:HA	25:PO:116:VAL:HG12	1.89	0.54
25:QI:3:GLU:HG3	25:QI:62:ARG:HH12	1.71	0.54
24:RD:26:LEU:HD21	24:RD:363:VAL:HG12	1.88	0.54
25:RI:238:CYS:SG	25:RI:318:ARG:NH1	2.80	0.54
24:RP:433:GLU:O	24:RP:437:ALA:N	2.41	0.54
25:SK:242:PHE:HB3	25:SK:356:ILE:HD13	1.90	0.54
32:T2:418:VAL:HG12	32:T2:435:VAL:HG22	1.90	0.54
25:TG:274:THR:OG1	25:TG:279:GLN:OE1	2.25	0.54
25:TO:3:GLU:HA	25:TO:49:VAL:HA	1.90	0.54
33:U0:28:LEU:HD21	33:U0:44:PHE:HE2	1.73	0.54
25:UG:27:GLU:O	25:UG:43:GLN:NE2	2.41	0.54
25:UK:48:ASN:O	25:UK:62:ARG:NH1	2.30	0.54
25:UK:213:ARG:NH2	36:W4:75:UNK:O	2.41	0.54
24:UN:313:MET:HB3	24:UN:380:ASN:HB3	1.87	0.54
24:UP:166:LYS:H	24:UP:199:ASP:HB3	1.72	0.54
24:VB:183:GLU:HG2	24:VB:184:PRO:HD3	1.89	0.54
25:VE:167:PHE:HA	25:VE:200:MET:HB2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:VG:219:THR:HA	24:VH:326:LYS:NZ	2.23	0.54
24:WB:236:SER:OG	24:WB:243:ARG:NH2	2.41	0.54
25:WI:187:LEU:HD11	25:WI:408:PHE:HE1	1.73	0.54
24:XL:133:GLN:O	24:XL:165:SER:OG	2.25	0.54
40:Y2:190:PRO:HB3	40:Y2:451:TYR:HE1	1.72	0.54
40:Y5:422:ASP:O	40:Y5:450:LYS:NZ	2.38	0.54
24:YF:258:ASN:HD22	24:YF:352:LYS:HE2	1.72	0.54
24:YJ:237:SER:HA	24:YJ:320:ARG:HH11	1.73	0.54
24:ZH:180:ALA:HB3	24:ZH:183:GLU:HG3	1.90	0.54
25:ZK:19:LYS:NZ	25:ZK:230:SER:OG	2.27	0.54
25:ZO:20:PHE:HA	25:ZO:230:SER:HB2	1.89	0.54
2:1A:59:LEU:O	2:1A:64:GLN:NE2	2.40	0.54
2:1A:2057:THR:HA	2:1A:2094:LEU:O	2.07	0.54
2:1B:1557:LEU:HD13	2:1B:1963:LEU:HD13	1.90	0.54
2:1C:1242:MET:HB2	2:1C:1345:VAL:HG23	1.90	0.54
14:8B:57:SER:HA	25:XK:360:GLY:HA3	1.88	0.54
18:C1:596:LEU:HA	18:C1:823:ALA:O	2.07	0.54
18:C1:773:THR:HA	18:C1:893:LEU:HD11	1.90	0.54
18:C1:1776:CYS:SG	18:C1:1777:ALA:N	2.80	0.54
18:C2:496:ARG:HH22	18:C2:554:LEU:H	1.55	0.54
19:G4:310:ARG:NH1	19:G4:346:GLU:OE1	2.40	0.54
19:H1:149:LEU:HA	19:H1:152:ILE:HG22	1.89	0.54
19:K0:264:ASP:OD1	19:K0:265:GLU:N	2.40	0.54
24:NH:14:ILE:HD11	24:NH:74:VAL:HG13	1.89	0.54
25:NO:152:ILE:HD13	25:NO:155:ILE:HD11	1.90	0.54
25:OE:176:SER:OG	25:OE:178:THR:O	2.26	0.54
25:OG:102:ALA:O	25:OG:106:TYR:N	2.34	0.54
25:OK:98:GLY:HA2	24:OL:254:GLU:HG2	1.89	0.54
25:PK:309:ARG:NH1	25:PK:426:GLN:O	2.41	0.54
28:Q0:2867:LYS:NZ	28:Q0:3005:ASP:O	2.31	0.54
24:QH:2:ARG:HG3	24:QH:133:GLN:HE22	1.72	0.54
25:QI:121:ARG:NH2	25:QI:158:GLU:OE2	2.37	0.54
25:QQ:3:GLU:HA	25:QQ:49:VAL:HA	1.88	0.54
25:RC:299:MET:HG3	25:RC:305:PRO:HG3	1.88	0.54
24:RJ:422:ARG:O	24:RJ:422:ARG:NH1	2.41	0.54
24:SH:259:LEU:HD11	24:SH:316:CYS:HB2	1.90	0.54
24:SN:268:MET:SD	24:SN:380:ASN:ND2	2.80	0.54
25:TC:377:MET:HA	25:TC:380:ARG:HD3	1.89	0.54
25:TO:32:PRO:HD3	25:TO:81:TYR:HE1	1.73	0.54
24:VB:11:GLN:NE2	25:VC:247:ASN:OD1	2.40	0.54
24:VH:240:ALA:HA	24:VH:243:ARG:HE	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:VK:6:HIS:HD1	25:VK:21:TRP:HE1	1.53	0.54
24:VL:318:MET:HB2	24:VL:376:CYS:HB3	1.87	0.54
24:WF:223:THR:HG1	25:WG:245:GLN:HE22	1.55	0.54
25:WG:54:ALA:HB3	25:WG:58:ARG:HB2	1.89	0.54
24:WJ:288:VAL:HG13	24:WJ:319:TYR:HE2	1.73	0.54
25:WK:330:MET:HB3	25:WK:349:VAL:HG21	1.90	0.54
24:WN:185:TYR:HE2	24:WN:398:MET:HB3	1.72	0.54
24:XJ:271:SER:OG	24:XJ:301:MET:SD	2.65	0.54
25:XK:33:THR:O	25:XK:58:ARG:NH1	2.38	0.54
25:XM:372:THR:HG21	25:XM:426:GLN:HB2	1.90	0.54
40:Y4:195:ILE:HB	40:Y4:210:PHE:HB2	1.89	0.54
40:Y6:154:LEU:HD11	40:Y6:388:VAL:HG13	1.89	0.54
24:YD:167:LEU:HD11	24:YD:252:ILE:HD12	1.90	0.54
24:YL:206:ASN:OD1	44:YL:501:GTP:O2'	2.26	0.54
24:YN:174:SER:HB3	24:YN:207:GLU:HG2	1.89	0.54
41:Z2:64:PRO:HB3	41:Z2:267:ARG:HG2	1.89	0.54
24:ZB:319:TYR:HB3	24:ZB:323:VAL:HG21	1.89	0.54
25:ZI:249:ASP:OD1	25:ZI:252:LYS:N	2.38	0.54
2:1A:1935:LEU:HD22	2:1A:1973:LEU:HB3	1.89	0.54
2:1C:1935:LEU:HD22	2:1C:1973:LEU:HB3	1.90	0.54
2:1D:1946:ARG:NH2	2:1D:2079:ALA:O	2.41	0.54
4:2B:373:ILE:HB	4:2B:386:LEU:HD11	1.90	0.54
8:3A:25:LEU:O	8:3A:29:ARG:N	2.41	0.54
15:9D:49:TYR:HA	15:9D:285:ALA:HB3	1.90	0.54
18:C2:146:SER:OG	18:C2:150:ARG:NH1	2.30	0.54
18:C2:1623:GLU:O	18:C2:1627:HIS:HB3	2.08	0.54
19:D0:338:PRO:HA	19:D0:341:VAL:HG22	1.90	0.54
19:D1:358:TRP:HB2	19:D1:396:LEU:HD21	1.88	0.54
20:E2:120:ARG:HH21	20:E2:132:LEU:HG	1.73	0.54
19:G0:158:GLU:HA	19:G0:161:GLN:HG3	1.89	0.54
19:G0:272:ALA:HA	19:G0:275:VAL:HG12	1.90	0.54
22:M1:27:THR:HA	22:M1:32:TYR:HE2	1.73	0.54
23:N1:93:PRO:O	23:N1:96:SER:OG	2.22	0.54
24:NF:164:LYS:O	24:NF:166:LYS:NZ	2.40	0.54
24:NH:352:LYS:NZ	24:NH:353:CYS:O	2.41	0.54
25:NI:247:ASN:O	25:NI:252:LYS:NZ	2.39	0.54
24:NJ:88:HIS:NE2	24:OL:284:GLU:OE2	2.40	0.54
24:OH:101:ASN:HD22	25:OI:256:ASN:HD21	1.55	0.54
25:OI:6:HIS:NE2	25:OI:8:GLN:OE1	2.40	0.54
24:OJ:240:ALA:HB1	24:OJ:356:ASN:HD22	1.73	0.54
25:OO:267:MET:HG3	25:OO:299:MET:HE2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Q0:256:LEU:HD11	35:W1:1445:ALA:HB2	1.90	0.54
24:RL:119:LEU:HD21	24:RL:156:ARG:HB3	1.89	0.54
25:RO:49:VAL:HG21	25:RO:241:ARG:HG2	1.89	0.54
30:S2:91:THR:O	25:WE:276:ARG:NH2	2.41	0.54
32:T0:588:ARG:HG2	32:T0:591:LEU:HD12	1.90	0.54
24:TL:79:ARG:HH22	24:TL:94:SER:HB2	1.73	0.54
24:TL:259:LEU:HD23	24:TL:268:MET:HG2	1.90	0.54
24:TP:170:THR:HG21	24:TP:194:LEU:HD21	1.89	0.54
25:UG:113:ILE:HA	25:UG:116:VAL:HG12	1.90	0.54
25:UK:36:TYR:HB2	25:UK:59:TYR:HE2	1.73	0.54
25:UM:221:THR:HA	24:UN:325:PRO:HD2	1.90	0.54
24:UP:236:SER:OG	24:UP:243:ARG:NH2	2.41	0.54
25:VC:207:LEU:HB3	25:VC:225:LEU:HD22	1.88	0.54
24:VD:178:SER:OG	24:VD:180:ALA:O	2.25	0.54
25:VI:49:VAL:HG11	25:VI:241:ARG:HG2	1.90	0.54
25:VM:272:PRO:HG3	25:VM:364:SER:HA	1.89	0.54
25:WI:48:ASN:O	25:WI:62:ARG:NH2	2.38	0.54
25:WK:54:ALA:HA	25:XK:283:ALA:HB2	1.89	0.54
24:WL:101:ASN:OD1	25:WM:252:LYS:NZ	2.40	0.54
25:XG:202:LEU:HD13	25:XG:229:ILE:HD12	1.89	0.54
40:Y3:62:PRO:HD2	40:Y3:104:LYS:HG3	1.90	0.54
40:Y3:62:PRO:HG2	40:Y3:105:GLY:HA2	1.90	0.54
24:YB:205:ASP:HB3	24:YB:303:VAL:HA	1.89	0.54
24:YD:387:ILE:HA	24:YD:390:ARG:HH21	1.71	0.54
41:Z1:43:VAL:HG23	41:Z1:52:ILE:HG12	1.90	0.54
41:Z1:541:LYS:HE3	41:Z1:592:MET:HA	1.89	0.54
25:ZO:307:HIS:ND1	25:ZO:376:GLU:OE2	2.37	0.54
14:8B:119:PRO:O	14:8B:121:ARG:NH1	2.37	0.54
15:9F:1356:VAL:HA	15:9F:1370:THR:O	2.08	0.54
18:C0:1558:LEU:HD13	18:C0:1750:VAL:HG11	1.89	0.54
18:C3:146:SER:OG	18:C3:150:ARG:NH1	2.41	0.54
19:D1:231:CYS:SG	19:D1:270:HIS:ND1	2.80	0.54
19:D5:77:GLU:HG3	19:D5:117:LEU:HD21	1.89	0.54
21:F1:328:LYS:O	21:F1:404:PHE:N	2.40	0.54
19:G1:92:LEU:HD21	19:G1:103:ALA:HB3	1.90	0.54
19:G5:24:VAL:HG11	19:G5:46:LEU:HD11	1.88	0.54
19:H6:95:GLN:HB3	19:H6:99:TYR:HD2	1.72	0.54
19:J3:164:VAL:HG21	19:J3:201:LEU:HD22	1.90	0.54
25:NC:99:ASN:HD21	25:NC:178:THR:HG21	1.72	0.54
25:NC:284:LEU:HD21	25:NC:363:MET:H	1.72	0.54
26:O0:1664:ALA:HA	26:O0:1872:LEU:H	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:OF:236:SER:O	24:OF:243:ARG:NH2	2.40	0.54
25:OG:322:SER:OG	25:OG:325:GLU:OE1	2.21	0.54
25:OM:19:LYS:HZ2	25:OM:227:HIS:HA	1.72	0.54
24:PH:221:ARG:HG2	25:PI:325:GLU:HG3	1.89	0.54
25:PI:87:PRO:HA	25:PI:90:PHE:HD2	1.72	0.54
25:PM:113:ILE:HG13	25:PM:150:LEU:HD22	1.88	0.54
28:Q1:2356:GLU:HG2	28:Q1:2357:PRO:HD3	1.90	0.54
28:Q1:2444:PRO:O	28:Q1:2449:ARG:NH2	2.41	0.54
24:QJ:71:GLU:HG3	25:QK:2:ARG:HH22	1.73	0.54
25:QK:392:LYS:NZ	25:QK:405:GLU:OE1	2.38	0.54
25:RO:376:GLU:HA	25:RO:379:LYS:HG2	1.90	0.54
24:RP:137:VAL:HG21	24:RP:154:LEU:HD21	1.89	0.54
30:S1:92:GLU:OE2	25:WI:276:ARG:NH1	2.41	0.54
25:SG:192:LEU:HD22	25:SG:196:ALA:HB2	1.90	0.54
24:SL:259:LEU:HD21	24:SL:316:CYS:HB2	1.90	0.54
25:TG:137:HIS:NE2	25:TG:166:THR:OG1	2.39	0.54
24:TH:89:PRO:HD2	24:UH:280:LYS:HZ3	1.73	0.54
24:WL:238:LEU:HD22	24:WL:378:ILE:HD11	1.89	0.54
25:XA:213:ARG:HH12	25:XA:297:LYS:HB3	1.71	0.54
25:XI:91:VAL:HG11	25:XI:116:VAL:HG22	1.89	0.54
25:XI:392:LYS:NZ	25:XI:405:GLU:OE1	2.41	0.54
25:XM:10:GLY:O	25:XM:14:ASN:ND2	2.39	0.54
24:YH:76:ASP:OD2	25:YI:46:ARG:NH2	2.41	0.54
24:YH:166:LYS:HB2	24:YH:199:ASP:H	1.72	0.54
25:YO:207:LEU:HB3	25:YO:225:LEU:HD12	1.90	0.54
2:1A:1916:ARG:HH22	18:C0:1552:LEU:HB3	1.72	0.54
2:1B:1448:MET:HE1	43:1B:2602:ANP:HN61	1.72	0.54
14:8C:112:THR:OG1	25:VG:74:ASP:OD2	2.25	0.54
18:C2:599:LEU:O	18:C2:826:VAL:HA	2.07	0.54
18:C3:121:LEU:HD22	19:D3:48:PRO:HA	1.90	0.54
19:D1:38:GLN:OE1	19:D1:39:GLN:NE2	2.40	0.54
20:E0:75:LEU:HD22	20:E0:125:LEU:HD11	1.89	0.54
20:E2:369:LYS:NZ	25:UC:126:SER:O	2.35	0.54
20:E3:154:GLY:O	20:E3:158:SER:OG	2.26	0.54
21:F2:20:THR:N	21:F2:55:GLU:OE2	2.41	0.54
19:G1:264:ASP:HB3	19:G1:267:VAL:HG12	1.90	0.54
19:G2:344:LEU:HD11	19:G2:360:LEU:HD11	1.89	0.54
19:G3:192:SER:O	19:G3:196:LYS:HB2	2.07	0.54
19:G4:161:GLN:HA	19:G4:164:VAL:HG12	1.88	0.54
19:G5:242:ASP:HA	19:G5:245:GLU:HG3	1.90	0.54
19:J1:301:TYR:O	19:J1:305:SER:HB2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:J3:203:GLN:HE22	19:J3:243:LEU:HD21	1.73	0.54
19:K1:332:ILE:HD13	19:K1:336:ALA:HB3	1.90	0.54
19:K3:145:SER:O	19:K3:148:THR:OG1	2.26	0.54
19:L2:451:PHE:HD1	19:L2:499:LEU:HD11	1.72	0.54
24:NF:286:LEU:O	24:NF:373:ARG:NH1	2.41	0.54
25:NG:7:ILE:HB	25:NG:135:VAL:HG12	1.90	0.54
24:NJ:273:ALA:HB3	24:NJ:375:VAL:H	1.73	0.54
24:NN:206:ASN:ND2	44:NN:501:GTP:O2'	2.41	0.54
24:NN:408:TYR:HB3	24:NN:413:MET:HG2	1.90	0.54
25:NO:151:LEU:HD23	25:NO:155:ILE:HD13	1.89	0.54
25:PC:54:ALA:HB3	25:PC:58:ARG:HB3	1.90	0.54
25:PC:113:ILE:HA	25:PC:116:VAL:HG22	1.90	0.54
25:PE:47:ILE:HG22	25:PE:51:PHE:HB2	1.88	0.54
24:PF:315:CYS:HB3	24:PF:351:PHE:HA	1.88	0.54
25:PG:179:VAL:HG13	25:PG:180:VAL:HG13	1.89	0.54
25:PK:341:PHE:HB3	25:PK:348:ASN:HD21	1.71	0.54
24:PN:396:ASP:OD1	24:PN:422:ARG:NE	2.37	0.54
24:QF:71:GLU:HG2	24:QF:73:THR:H	1.73	0.54
25:QG:176:SER:OG	25:QG:178:THR:O	2.26	0.54
24:QH:192:HIS:ND1	24:QH:424:ASP:OD2	2.36	0.54
25:QI:27:GLU:OE2	25:QI:318:ARG:NH2	2.41	0.54
25:QK:47:ILE:HG22	25:QK:51:PHE:HB2	1.90	0.54
25:QO:244:GLY:H	25:QO:247:ASN:HD21	1.56	0.54
24:RF:202:VAL:HA	24:RF:268:MET:HB2	1.90	0.54
24:RJ:274:PRO:HD3	24:RJ:291:ILE:HG23	1.90	0.54
25:RO:69:GLU:HG3	25:RO:71:GLY:H	1.73	0.54
24:SL:173:PRO:HG2	24:SL:187:SER:HB3	1.90	0.54
25:TC:52:ASN:ND2	25:TC:123:GLU:OE1	2.38	0.54
25:UE:314:SER:HB3	25:UE:368:ILE:HB	1.89	0.54
25:UG:213:ARG:NH2	36:W5:75:UNK:O	2.38	0.54
24:UL:276:ILE:HG13	24:UL:280:LYS:HB3	1.90	0.54
24:VH:68:LEU:HD11	24:VH:153:LEU:HD11	1.90	0.54
24:VN:338:LYS:HE3	24:VN:340:THR:H	1.72	0.54
25:WE:211:CYS:HA	25:WE:215:LEU:HB2	1.88	0.54
39:X0:233:GLN:HA	39:X0:254:LEU:HA	1.89	0.54
24:XF:96:LYS:NZ	25:XG:129:CYS:SG	2.71	0.54
25:XK:248:ALA:HA	25:XK:252:LYS:HD3	1.90	0.54
25:XM:248:ALA:HA	25:XM:252:LYS:HG2	1.90	0.54
40:Y6:201:ALA:O	40:Y6:305:LYS:NZ	2.41	0.54
24:YH:259:LEU:HD23	24:YH:268:MET:HG2	1.90	0.54
25:YM:20:PHE:HA	25:YM:230:SER:HB2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:YN:325:PRO:HA	24:YN:328:VAL:HG12	1.89	0.54
41:Z2:49:GLU:HG3	41:Z2:538:LEU:HD22	1.90	0.54
24:ZF:25:CYS:O	24:ZF:30:ILE:N	2.41	0.54
25:ZG:131:GLN:HE22	25:ZG:250:LEU:HB2	1.72	0.54
24:ZL:305:CYS:HB2	24:ZL:387:ILE:HD11	1.89	0.54
2:1A:1810:VAL:HA	41:Z0:275:ARG:NH2	2.23	0.54
2:1A:2455:SER:OG	18:C0:1203:ARG:NH2	2.42	0.54
2:1C:2047:SER:HB3	2:1C:2109:CYS:HB3	1.89	0.54
18:C0:592:LEU:O	18:C0:935:LYS:NZ	2.39	0.54
18:C2:175:PHE:HA	18:C2:178:GLU:HG3	1.90	0.54
19:D7:219:ILE:HD11	19:D7:255:LYS:HD2	1.89	0.54
19:G1:302:ILE:HG23	19:G1:310:ARG:HD3	1.90	0.54
19:J1:4:ARG:HG2	24:QH:192:HIS:HE1	1.73	0.54
19:J1:210:ALA:O	19:J1:214:LEU:HB2	2.07	0.54
19:J3:198:THR:HG22	19:J3:200:GLU:H	1.72	0.54
19:K2:50:LEU:HD21	19:K2:62:ALA:HB2	1.90	0.54
19:L0:193:ASP:HA	19:L0:196:LYS:HD3	1.90	0.54
19:L1:89:VAL:HA	19:L1:92:LEU:HD23	1.90	0.54
19:L2:287:GLN:HG3	19:L2:327:LEU:HD21	1.90	0.54
25:NC:99:ASN:HA	25:NC:142:GLY:HA3	1.88	0.54
25:NK:86:ARG:NH1	25:NK:123:GLU:OE2	2.41	0.54
25:OE:22:GLU:HA	25:OE:81:TYR:HD2	1.73	0.54
25:OI:218:THR:HG23	25:OI:219:THR:HG23	1.90	0.54
24:PD:14:ILE:HD11	24:PD:74:VAL:HG13	1.89	0.54
24:PD:209:ILE:HD13	24:PD:231:ILE:HD11	1.90	0.54
25:PQ:32:PRO:O	25:PQ:83:GLN:NE2	2.39	0.54
25:QE:55:THR:HG23	25:RE:283:ALA:HA	1.90	0.54
24:QN:99:ALA:HA	24:QN:110:ILE:HD11	1.90	0.54
25:QO:54:ALA:HA	25:RO:283:ALA:HB2	1.90	0.54
25:QQ:2:ARG:HB3	25:QQ:131:GLN:HB2	1.88	0.54
25:RE:192:LEU:HD22	25:RE:196:ALA:HB2	1.89	0.54
24:RJ:399:TYR:O	24:RJ:402:ARG:NH1	2.40	0.54
25:SG:105:HIS:ND1	25:SG:146:GLY:O	2.41	0.54
25:SK:24:VAL:HG22	25:SK:241:ARG:HH12	1.73	0.54
24:SN:11:GLN:NE2	24:SN:15:GLN:OE1	2.41	0.54
24:SN:336:LYS:HD3	24:SN:351:PHE:HE2	1.73	0.54
25:SO:318:ARG:HE	25:SO:358:PRO:HD3	1.72	0.54
24:TL:76:ASP:HA	24:TL:79:ARG:HB2	1.90	0.54
24:TN:336:LYS:O	24:TN:339:ARG:NH2	2.41	0.54
33:U0:41:PHE:HB3	33:U0:66:GLN:HE22	1.73	0.54
24:UN:115:VAL:HG22	24:UN:119:LEU:HD23	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:VF:272:TYR:HB3	24:VF:275:ILE:HD11	1.89	0.54
25:VI:117:LEU:O	25:VI:121:ARG:HB2	2.07	0.54
25:VK:282:ARG:NH2	25:VK:292:GLN:OE1	2.40	0.54
24:VN:180:ALA:HB3	24:VN:183:GLU:HG3	1.90	0.54
24:WB:259:LEU:HD11	24:WB:316:CYS:HB2	1.89	0.54
24:WD:203:MET:HB3	24:WD:303:VAL:HG21	1.90	0.54
25:XM:198:GLU:HA	25:XM:264:HIS:HB2	1.90	0.54
40:Y3:448:ASN:O	40:Y3:452:ASN:ND2	2.41	0.54
40:Y5:191:SER:HB2	40:Y5:438:LYS:HA	1.90	0.54
40:Y6:17:GLU:O	40:Y6:21:ASN:ND2	2.41	0.54
24:YD:298:PRO:HA	24:YD:301:MET:HG2	1.90	0.54
24:YH:97:GLU:OE1	25:YI:162:ARG:NH2	2.41	0.54
25:YO:176:SER:OG	25:YO:178:THR:O	2.26	0.54
41:Z1:199:ARG:NE	41:Z1:339:ASP:OD2	2.39	0.54
24:ZB:273:ALA:HB3	24:ZB:375:VAL:H	1.72	0.54
25:ZI:31:ASP:OD1	25:ZI:35:THR:N	2.41	0.54
18:C3:39:ASN:ND2	18:C3:127:PRO:O	2.32	0.53
18:C3:1614:LEU:HD21	18:C3:1913:ARG:HE	1.73	0.53
19:D1:277:GLU:HA	19:D1:280:LYS:HG2	1.89	0.53
19:D2:95:GLN:HB3	19:D2:99:TYR:HD1	1.73	0.53
19:D3:52:ASP:HB3	19:D3:57:ILE:HD11	1.90	0.53
19:D3:138:ASP:HB3	19:D3:141:VAL:HG12	1.90	0.53
20:E3:96:SER:OG	20:E3:97:LEU:N	2.41	0.53
21:F2:133:VAL:HG21	21:F2:172:LEU:HD13	1.90	0.53
19:H6:47:ARG:NH2	19:H6:82:ASN:OD1	2.41	0.53
19:J2:34:ILE:HA	19:J2:37:LEU:HD23	1.90	0.53
19:K1:349:GLU:HG3	19:K1:352:LEU:HD12	1.88	0.53
19:L1:130:LEU:HD21	19:L1:149:LEU:HB3	1.90	0.53
25:NI:180:VAL:HG22	25:NI:183:TYR:HB2	1.90	0.53
25:NK:10:GLY:O	25:NK:14:ASN:ND2	2.41	0.53
24:OD:77:GLU:HA	24:OD:80:THR:HG22	1.89	0.53
24:OH:53:PHE:HB3	24:OH:61:HIS:HB3	1.90	0.53
25:OK:52:ASN:OD1	25:OK:62:ARG:NH2	2.41	0.53
25:OK:275:SER:HG	25:OK:278:SER:HG	1.55	0.53
25:OQ:25:SER:HB2	25:OQ:30:ILE:HB	1.89	0.53
25:PI:191:GLN:OE1	25:PI:195:ASN:ND2	2.38	0.53
25:PO:7:ILE:HB	25:PO:135:VAL:HG12	1.90	0.53
28:Q0:2129:PRO:HG2	28:Q0:2183:HIS:HB2	1.88	0.53
28:Q0:2199:ARG:HB3	28:Q0:2222:LEU:HD11	1.90	0.53
28:Q0:2666:HIS:CE1	28:Q0:2976:VAL:HG21	2.43	0.53
25:QC:149:THR:HA	25:QC:152:ILE:HG12	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:R0:1355:SER:N	29:R0:1468:VAL:O	2.41	0.53
25:RI:246:LEU:HB2	25:RI:353:VAL:H	1.72	0.53
25:RO:140:GLY:O	25:RO:184:ASN:ND2	2.40	0.53
25:SK:234:SER:OG	25:SK:241:ARG:NH2	2.40	0.53
24:TJ:205:ASP:HB2	24:TJ:303:VAL:HG23	1.90	0.53
33:U1:41:PHE:HB3	33:U1:66:GLN:HE22	1.73	0.53
25:UC:262:ARG:NH2	25:UC:414:ASN:OD1	2.41	0.53
25:UG:139:LEU:HD12	25:UG:170:VAL:HG12	1.89	0.53
25:UI:234:SER:O	25:UI:241:ARG:NH2	2.41	0.53
25:UI:253:LEU:HD21	25:UI:316:LEU:HD21	1.89	0.53
25:UO:213:ARG:NH2	36:W3:75:UNK:O	2.41	0.53
25:UO:391:ARG:O	24:UP:262:TYR:OH	2.24	0.53
24:WB:79:ARG:NH2	24:WB:92:LEU:O	2.41	0.53
25:WG:67:ASP:OD2	25:WG:72:THR:OG1	2.25	0.53
25:WI:350:LYS:NZ	25:WI:351:SER:O	2.41	0.53
39:X0:266:ARG:HD3	39:X0:508:TRP:HB3	1.90	0.53
25:XC:164:MET:HG2	25:XC:196:ALA:HA	1.89	0.53
24:XD:288:VAL:HG13	24:XD:319:TYR:HE2	1.73	0.53
24:XJ:259:LEU:HD21	24:XJ:316:CYS:HB2	1.90	0.53
25:XM:269:GLY:HA2	25:XM:300:MET:HG3	1.89	0.53
40:Y1:77:ALA:HB1	40:Y1:158:MET:HB3	1.89	0.53
41:Z2:44:ALA:HB3	41:Z2:51:LEU:HB2	1.90	0.53
24:ZF:286:LEU:O	24:ZF:373:ARG:NH2	2.40	0.53
24:ZN:251:ASP:HB3	24:ZN:254:GLU:HG3	1.90	0.53
24:ZP:402:ARG:NH1	24:ZP:415:GLU:OE2	2.41	0.53
2:1A:1545:LEU:HD21	2:1A:2001:VAL:HG11	1.88	0.53
2:1A:1550:SER:O	2:1A:1970:ARG:NH1	2.41	0.53
2:1B:1610:VAL:HG12	2:1B:1684:ARG:HE	1.72	0.53
2:1B:2046:LEU:HB2	2:1B:2075:ASN:HA	1.91	0.53
2:1C:1406:ARG:HD3	2:1C:1408:ASP:HB2	1.90	0.53
13:7A:20:GLU:HA	13:7A:38:LYS:HA	1.89	0.53
15:9C:49:TYR:HA	15:9C:285:ALA:HB3	1.90	0.53
18:C0:601:ALA:HB3	18:C0:604:ALA:HB2	1.90	0.53
18:C2:181:ARG:HA	18:C2:184:ARG:HG2	1.89	0.53
43:C3:2001:ANP:O2G	43:C3:2001:ANP:O1B	2.26	0.53
19:G4:234:SER:OG	19:G4:235:GLN:NE2	2.38	0.53
19:H3:49:LEU:HD11	19:H3:61:ALA:HB3	1.90	0.53
19:H3:252:ILE:HA	19:H3:255:LYS:HE2	1.89	0.53
19:H4:276:ARG:NH1	19:H4:277:GLU:OE2	2.40	0.53
19:H5:181:LEU:HD23	19:H5:184:LYS:HZ1	1.72	0.53
19:J2:269:LYS:HG2	19:J2:312:PRO:HG2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:NH:236:SER:OG	24:NH:243:ARG:NH2	2.41	0.53
24:OJ:195:LEU:O	24:OJ:266:HIS:NE2	2.39	0.53
25:PM:272:PRO:HG3	25:PM:364:SER:HA	1.90	0.53
28:Q1:3145:GLU:OE2	28:Q1:3146:ARG:NH1	2.40	0.53
24:QD:76:ASP:OD2	25:QE:46:ARG:NH1	2.40	0.53
25:QG:377:MET:HG2	25:QG:380:ARG:HH12	1.73	0.53
24:QH:221:ARG:HH22	25:QI:325:GLU:H	1.55	0.53
29:R0:2497:ARG:O	29:R0:2763:GLY:N	2.41	0.53
25:RE:175:VAL:HG11	24:RF:329:ASN:HB3	1.89	0.53
24:RH:188:VAL:HG13	24:RH:425:LEU:HG	1.89	0.53
24:RN:174:SER:OG	24:RN:207:GLU:OE1	2.25	0.53
24:RN:259:LEU:HD21	24:RN:316:CYS:HB2	1.91	0.53
25:RO:16:ILE:HD11	25:RO:229:ILE:HG21	1.89	0.53
25:RO:54:ALA:HA	25:SO:283:ALA:HB2	1.91	0.53
24:SB:221:ARG:NH2	25:SC:324:LYS:HG2	2.24	0.53
24:SN:276:ILE:HD12	24:SN:281:ALA:HA	1.90	0.53
25:TE:140:GLY:O	25:TE:184:ASN:ND2	2.41	0.53
25:TI:25:SER:HB2	25:TI:30:ILE:HB	1.89	0.53
24:TJ:137:VAL:HG11	24:TJ:154:LEU:HD21	1.90	0.53
25:TM:131:GLN:HE22	25:TM:249:ASP:HB2	1.73	0.53
24:UD:171:VAL:HA	24:UD:204:LEU:HB2	1.90	0.53
24:UH:27:GLU:OE1	24:UH:320:ARG:NH2	2.38	0.53
25:VI:184:ASN:OD1	25:VI:398:TYR:OH	2.24	0.53
24:VN:394:LYS:HZ1	25:VO:347:ASN:HB2	1.72	0.53
39:X1:276:ALA:HB3	39:X1:279:LEU:HD22	1.90	0.53
39:X2:255:ARG:O	39:X2:280:GLY:N	2.40	0.53
24:XD:317:LEU:HB3	24:XD:319:TYR:HE1	1.73	0.53
24:XF:47:ASP:N	24:XF:47:ASP:OD1	2.41	0.53
24:XH:97:GLU:OE1	25:XI:162:ARG:NH2	2.41	0.53
24:XH:137:VAL:HG21	24:XH:154:LEU:HD11	1.90	0.53
25:XK:220:PRO:HD2	24:XL:326:LYS:HE3	1.90	0.53
25:XM:282:ARG:NH1	25:XM:292:GLN:OE1	2.41	0.53
40:Y3:93:LEU:HD21	40:Y3:108:LYS:HG2	1.89	0.53
24:YF:222:PRO:HD2	25:YG:324:LYS:NZ	2.23	0.53
41:Z3:539:LYS:HA	41:Z3:542:VAL:HG12	1.90	0.53
24:ZD:121:ARG:HH21	24:ZD:124:LYS:HG3	1.72	0.53
24:ZH:90:GLU:O	24:ZH:121:ARG:NH1	2.41	0.53
24:ZP:108:TYR:O	24:ZP:112:LYS:NZ	2.30	0.53
2:1A:371:LEU:N	2:1A:388:THR:O	2.41	0.53
2:1A:1580:VAL:HG22	2:1A:1704:VAL:HB	1.89	0.53
2:1C:1550:SER:O	2:1C:1970:ARG:NH1	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2A:321:VAL:HG13	4:2A:323:ARG:HE	1.74	0.53
18:C0:565:LEU:H	18:C0:1446:ARG:HH22	1.55	0.53
18:C1:1293:GLN:NE2	18:C1:1336:ASP:OD1	2.41	0.53
18:C3:116:ASN:HA	18:C3:119:ARG:HG2	1.89	0.53
19:D7:149:LEU:HA	19:D7:152:ILE:HG12	1.89	0.53
19:G4:314:ILE:HD11	19:G4:352:LEU:HD22	1.90	0.53
19:G5:245:GLU:HA	19:G5:248:VAL:HG22	1.90	0.53
24:ND:217:LEU:HD11	24:ND:367:ASP:HB3	1.91	0.53
24:NH:50:ASN:O	24:NH:64:ARG:NH1	2.42	0.53
26:O0:437:MET:O	26:O0:441:THR:OG1	2.21	0.53
24:OD:315:CYS:HA	24:OD:379:SER:HA	1.89	0.53
25:OI:272:PRO:HG3	25:OI:364:SER:HA	1.91	0.53
25:OM:198:GLU:HB2	25:OM:266:PHE:HE2	1.72	0.53
25:PC:194:GLU:OE2	25:PC:414:ASN:ND2	2.41	0.53
24:PJ:223:THR:HG22	25:PK:322:SER:HA	1.91	0.53
25:PK:396:HIS:HA	25:PK:399:THR:HG22	1.89	0.53
28:Q0:2137:THR:HA	28:Q0:2140:TRP:HB2	1.90	0.53
28:Q0:3081:ALA:O	28:Q0:3211:LYS:NZ	2.32	0.53
24:QD:398:MET:HE1	25:QE:345:ILE:HA	1.90	0.53
25:QE:253:LEU:HD21	25:QE:316:LEU:HD21	1.90	0.53
25:QM:20:PHE:HA	25:QM:230:SER:HB2	1.89	0.53
25:RC:232:VAL:HG11	25:RC:268:VAL:HG13	1.91	0.53
24:RJ:269:LEU:HD22	24:RJ:384:ILE:HD11	1.89	0.53
30:S3:19:PRO:HB3	24:XB:57:GLY:HA3	1.89	0.53
24:SF:194:LEU:O	24:SF:198:THR:OG1	2.26	0.53
25:SK:12:CYS:SG	25:SK:13:GLY:N	2.81	0.53
25:SK:257:LEU:HD11	25:SK:314:SER:HB2	1.90	0.53
32:T2:410:VAL:HB	32:T2:450:PRO:HD2	1.89	0.53
25:TC:40:SER:HB3	25:TC:43:GLN:HG3	1.90	0.53
24:VB:121:ARG:HH12	24:VB:124:LYS:HD2	1.73	0.53
25:VI:110:ALA:HA	25:VI:113:ILE:HG22	1.90	0.53
24:VP:214:ARG:HH21	24:VP:215:ARG:HB3	1.73	0.53
25:WC:290:THR:HG21	25:WC:329:GLN:HB3	1.91	0.53
24:WD:102:ASN:HB3	24:WD:105:ARG:HB2	1.90	0.53
39:X3:255:ARG:HD2	39:X3:278:LEU:HB3	1.89	0.53
40:Y0:391:ILE:HG23	40:Y0:393:THR:H	1.74	0.53
40:Y1:80:PRO:O	40:Y1:389:ASN:ND2	2.42	0.53
40:Y2:121:LEU:HD22	40:Y2:132:ILE:HD11	1.90	0.53
24:YB:88:HIS:HB3	24:YB:91:GLN:HB2	1.90	0.53
25:YK:272:PRO:HG3	25:YK:364:SER:HA	1.90	0.53
24:ZD:219:ILE:HG23	24:ZD:222:PRO:HD3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:ZM:135:VAL:HG21	25:ZM:152:ILE:HD11	1.89	0.53
2:1D:1244:LEU:HD11	2:1D:1326:PRO:HD2	1.90	0.53
2:1D:1557:LEU:HD13	2:1D:1963:LEU:HD13	1.88	0.53
4:2B:316:ARG:NH1	24:OH:400:ALA:O	2.41	0.53
13:7D:145:GLY:N	13:7D:161:PHE:O	2.41	0.53
17:B1:587:ILE:HD11	17:B2:352:ASP:HB2	1.91	0.53
19:D0:45:LEU:HD11	19:D1:17:ARG:HH22	1.73	0.53
19:D5:324:SER:HB3	19:D5:327:LEU:HG	1.90	0.53
19:G0:111:ALA:HB2	19:G0:121:VAL:HG21	1.90	0.53
19:G0:329:LEU:HD22	19:G0:370:HIS:HB3	1.91	0.53
19:G2:251:GLU:O	19:G2:255:LYS:NZ	2.42	0.53
19:G5:170:PRO:HA	19:G5:173:VAL:HG12	1.89	0.53
19:H0:347:GLU:HG2	19:H0:353:LYS:HE3	1.91	0.53
19:H6:131:VAL:HA	19:H6:134:LEU:HD23	1.91	0.53
19:J1:89:VAL:HG13	19:J1:129:SER:HB2	1.91	0.53
19:J3:92:LEU:HD21	19:J3:103:ALA:HB3	1.91	0.53
26:O0:1859:TYR:HA	26:O0:1891:ARG:HA	1.89	0.53
24:OJ:51:THR:HG23	24:OJ:52:PHE:HD1	1.74	0.53
25:OO:52:ASN:OD1	25:OO:62:ARG:NH2	2.42	0.53
24:PD:272:TYR:HB3	24:PD:275:ILE:HD11	1.91	0.53
25:PG:31:ASP:OD1	25:PG:35:THR:N	2.35	0.53
25:PO:105:HIS:HD2	25:PO:150:LEU:HD12	1.72	0.53
24:PP:259:LEU:HD11	24:PP:316:CYS:HB3	1.91	0.53
24:PP:425:LEU:HA	24:PP:428:LEU:HB2	1.89	0.53
24:QL:70:LEU:HD12	24:QL:145:THR:HG22	1.90	0.53
25:RC:274:THR:HG22	25:RC:282:ARG:HE	1.74	0.53
24:RL:317:LEU:HB3	24:RL:319:TYR:HE2	1.72	0.53
25:SE:28:HIS:HD2	25:SE:47:ILE:HG22	1.73	0.53
32:T1:556:TYR:OH	25:YG:405:GLU:OE2	2.26	0.53
24:TH:195:LEU:HD11	24:TH:428:LEU:HD12	1.89	0.53
24:TN:88:HIS:HB3	24:TN:91:GLN:NE2	2.22	0.53
25:TO:138:SER:HA	25:TO:169:VAL:H	1.73	0.53
24:UJ:272:TYR:HB3	24:UJ:275:ILE:HD11	1.90	0.53
25:UK:325:GLU:HA	25:UK:328:GLU:HG2	1.90	0.53
24:UL:99:ALA:HA	24:UL:105:ARG:HD2	1.91	0.53
24:VD:70:LEU:HA	24:VD:95:GLY:HA3	1.89	0.53
25:VG:1:MET:SD	25:VG:1:MET:N	2.81	0.53
25:VG:54:ALA:HB3	25:VG:58:ARG:HB2	1.90	0.53
24:WB:241:SER:OG	24:WB:250:VAL:N	2.41	0.53
24:WD:179:THR:HG1	44:WD:501:GTP:HO3'	1.56	0.53
24:WL:363:VAL:HG23	24:WL:366:GLY:HA3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:X1:195:HIS:HA	39:X1:217:HIS:HB2	1.89	0.53
39:X1:514:LEU:HD11	39:X1:568:ARG:HB3	1.90	0.53
39:X3:510:VAL:O	39:X3:568:ARG:NH2	2.42	0.53
25:XC:215:LEU:HD21	25:XC:273:LEU:HD12	1.90	0.53
24:YD:102:ASN:ND2	24:YD:411:GLU:OE1	2.41	0.53
25:YG:198:GLU:HA	25:YG:264:HIS:HB2	1.91	0.53
25:YI:271:THR:HG21	25:YI:289:LEU:HG	1.90	0.53
25:YO:20:PHE:HA	25:YO:230:SER:HB2	1.91	0.53
24:ZB:9:ILE:HD11	24:ZB:153:LEU:HD23	1.90	0.53
24:ZB:137:VAL:HG21	24:ZB:154:LEU:HD21	1.89	0.53
25:ZC:405:GLU:HA	25:ZC:408:PHE:HD2	1.73	0.53
4:2A:536:ALA:N	4:2A:820:ARG:O	2.42	0.53
8:3B:25:LEU:O	8:3B:29:ARG:N	2.42	0.53
14:8A:107:THR:OG1	25:VO:83:GLN:NE2	2.34	0.53
14:8D:71:ARG:NH1	24:WD:242:LEU:O	2.27	0.53
17:B1:680:ARG:HH21	24:RD:345:ASP:HA	1.74	0.53
18:C0:500:ARG:HD3	18:C0:503:LEU:HD12	1.91	0.53
19:D0:198:THR:HG23	19:D0:201:LEU:H	1.73	0.53
19:D4:306:ALA:O	19:D4:310:ARG:NH1	2.42	0.53
19:D6:347:GLU:HA	19:D6:353:LYS:HE2	1.90	0.53
19:H2:369:ASP:HA	19:H2:372:LYS:HE2	1.91	0.53
19:H4:48:PRO:HB2	19:H5:48:PRO:HB3	1.89	0.53
19:H4:198:THR:HG23	19:H4:201:LEU:H	1.72	0.53
19:H7:48:PRO:HD2	19:H7:49:LEU:H	1.72	0.53
24:NJ:286:LEU:O	24:NJ:373:ARG:NH2	2.41	0.53
25:NK:347:ASN:C	25:NK:347:ASN:HD22	2.12	0.53
24:OD:285:GLN:HE22	24:OD:287:SER:HB2	1.73	0.53
25:OG:176:SER:OG	25:OG:178:THR:O	2.25	0.53
24:OH:286:LEU:O	24:OH:373:ARG:NH1	2.42	0.53
25:OI:313:ALA:HB3	25:OI:349:VAL:HG12	1.90	0.53
25:OK:293:MET:HB3	25:OK:294:TRP:CD1	2.43	0.53
24:OL:79:ARG:NH2	24:OL:92:LEU:O	2.41	0.53
25:OQ:290:THR:HA	25:OQ:293:MET:HB2	1.90	0.53
25:PK:290:THR:HG21	25:PK:329:GLN:HB3	1.89	0.53
24:PP:79:ARG:NH2	24:PP:92:LEU:O	2.41	0.53
28:Q0:3145:GLU:OE2	28:Q0:3146:ARG:NH1	2.42	0.53
28:Q1:1190:LEU:HD13	28:Q1:2114:HIS:HE2	1.73	0.53
24:QH:9:ILE:HD13	24:QH:150:GLY:HA2	1.91	0.53
25:QM:396:HIS:HA	25:QM:399:THR:HG22	1.91	0.53
29:R1:1057:ALA:HB2	29:R1:1569:ALA:HB1	1.90	0.53
24:RD:262:TYR:HB2	24:RD:265:ILE:HG12	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:RE:32:PRO:O	25:RE:83:GLN:NE2	2.40	0.53
25:RE:272:PRO:HG2	25:RE:361:LEU:HD21	1.90	0.53
25:RE:324:LYS:O	25:RE:327:ASP:N	2.41	0.53
25:RG:86:ARG:HG3	25:RG:88:ASP:H	1.74	0.53
24:RJ:259:LEU:HD11	24:RJ:316:CYS:HB2	1.91	0.53
25:SC:138:SER:HA	25:SC:169:VAL:H	1.74	0.53
24:SF:14:ILE:O	24:SF:18:ASN:ND2	2.41	0.53
24:SH:265:ILE:HG23	24:SH:432:PHE:HE2	1.74	0.53
25:SI:184:ASN:OD1	25:SI:398:TYR:OH	2.27	0.53
25:SM:176:SER:OG	25:SM:178:THR:O	2.26	0.53
32:T0:577:ALA:HB3	32:T0:580:ASP:HB2	1.91	0.53
24:TB:203:MET:HB3	24:TB:303:VAL:HG21	1.90	0.53
25:TC:67:ASP:OD2	25:TC:72:THR:OG1	2.25	0.53
25:TE:272:PRO:HG3	25:TE:364:SER:HA	1.89	0.53
25:TO:67:ASP:OD2	25:TO:72:THR:OG1	2.26	0.53
24:UP:147:SER:HB2	24:UP:190:SER:HB3	1.91	0.53
24:VB:387:ILE:HD13	24:VB:390:ARG:HH22	1.73	0.53
24:VF:209:ILE:HG23	24:VF:230:LEU:HD11	1.89	0.53
24:VN:79:ARG:NH2	24:VN:92:LEU:O	2.42	0.53
25:WA:32:PRO:HD3	25:WA:81:TYR:HE1	1.73	0.53
24:WF:2:ARG:HG2	24:WF:242:LEU:HB3	1.91	0.53
25:WM:113:ILE:HA	25:WM:116:VAL:HG22	1.90	0.53
25:WO:262:ARG:NH2	25:WO:414:ASN:OD1	2.42	0.53
39:X1:189:LYS:HA	39:X1:210:LEU:HA	1.91	0.53
39:X2:601:ARG:HH12	39:X2:603:HIS:HA	1.73	0.53
39:X3:157:ARG:NH1	39:X3:158:ASP:O	2.42	0.53
25:XA:377:MET:HG2	25:XA:380:ARG:HH22	1.74	0.53
24:XF:73:THR:HG23	25:XG:2:ARG:HH12	1.73	0.53
25:XK:252:LYS:O	25:XK:256:ASN:ND2	2.40	0.53
25:XM:186:THR:HG23	25:XM:381:VAL:HG12	1.90	0.53
40:Y7:22:LEU:HA	40:Y7:25:LYS:HG2	1.91	0.53
24:YL:195:LEU:HD13	24:YL:264:ARG:HH21	1.74	0.53
25:YO:47:ILE:HG13	25:YO:51:PHE:HB2	1.89	0.53
41:Z3:584:MET:HA	41:Z3:587:LEU:HG	1.90	0.53
25:ZE:209:ASP:HB2	25:ZE:213:ARG:HH12	1.73	0.53
24:ZF:2:ARG:NH1	24:ZF:242:LEU:O	2.42	0.53
24:ZH:186:ASN:OD1	24:ZH:408:TYR:OH	2.21	0.53
24:ZJ:182:VAL:HG22	25:ZK:256:ASN:HD21	1.73	0.53
24:ZN:212:ILE:HG23	24:ZN:275:ILE:HD12	1.90	0.53
24:ZN:229:ARG:HD2	24:ZN:363:VAL:HG11	1.90	0.53
25:ZO:396:HIS:HA	25:ZO:399:THR:HG22	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1D:1299:ASP:HA	2:1D:1302:PHE:HD2	1.74	0.53
14:8C:112:THR:HA	24:VH:47:ASP:HB3	1.90	0.53
17:B0:579:ALA:O	17:B0:583:LYS:HG2	2.08	0.53
18:C0:1805:ASP:HA	18:C0:1808:PHE:HD2	1.72	0.53
19:D7:11:GLU:OE1	19:D7:15:LYS:NZ	2.41	0.53
19:D7:72:SER:OG	19:D7:74:ASP:OD1	2.26	0.53
20:E3:340:ILE:O	23:N0:71:GLN:NE2	2.42	0.53
20:E3:443:TYR:HE1	25:VM:23:VAL:HG23	1.73	0.53
19:G2:198:THR:HG23	19:G2:201:LEU:H	1.74	0.53
19:I0:5:ALA:HA	19:I0:8:GLN:HB3	1.88	0.53
19:J0:21:VAL:HG21	19:J0:57:ILE:HA	1.90	0.53
19:L0:301:TYR:O	19:L0:305:SER:HB2	2.08	0.53
19:L1:127:LEU:HD12	19:L1:166:ALA:HB2	1.90	0.53
22:M1:190:PRO:HD2	22:M1:203:VAL:HG12	1.90	0.53
24:NF:180:ALA:O	25:NG:347:ASN:ND2	2.42	0.53
24:NF:298:PRO:HA	24:NF:301:MET:HG2	1.90	0.53
24:NF:367:ASP:OD1	24:NF:367:ASP:N	2.40	0.53
24:NL:168:GLY:O	24:NL:202:VAL:N	2.36	0.53
25:OM:269:GLY:HA2	25:OM:300:MET:HG3	1.91	0.53
25:PC:31:ASP:OD1	25:PC:35:THR:N	2.40	0.53
25:PE:165:LEU:HD22	25:PE:250:LEU:HD11	1.91	0.53
28:Q1:748:SER:OG	28:Q1:751:THR:OG1	2.24	0.53
25:QC:139:LEU:HD12	25:QC:170:VAL:HG12	1.91	0.53
24:QJ:71:GLU:HB2	24:QJ:98:ASP:HB3	1.90	0.53
24:RD:278:ALA:HA	24:RD:369:ALA:HB2	1.90	0.53
24:RF:271:SER:OG	24:RF:301:MET:SD	2.66	0.53
24:RH:63:PRO:HG2	24:RH:87:PHE:HA	1.91	0.53
24:RL:178:SER:O	25:RM:347:ASN:ND2	2.37	0.53
24:SN:320:ARG:HG2	24:SN:356:ASN:HB2	1.89	0.53
24:SN:414:GLU:HG2	24:SN:416:GLY:H	1.73	0.53
32:T2:142:PHE:HA	32:T2:190:VAL:HA	1.90	0.53
25:TC:290:THR:HG21	25:TC:329:GLN:HB3	1.89	0.53
25:TE:54:ALA:HB3	25:TE:58:ARG:HB3	1.90	0.53
25:TE:191:GLN:O	25:TE:195:ASN:ND2	2.42	0.53
24:TJ:320:ARG:NH2	24:TJ:358:GLN:OE1	2.40	0.53
24:UD:47:ASP:HB3	24:UD:50:ASN:HB2	1.89	0.53
24:UJ:317:LEU:HD23	24:UJ:377:MET:HB2	1.90	0.53
25:VC:31:ASP:OD2	25:VC:37:HIS:NE2	2.41	0.53
25:VE:290:THR:HG21	25:VE:329:GLN:HB3	1.90	0.53
24:VH:90:GLU:OE2	24:VH:121:ARG:NH2	2.42	0.53
25:VO:311:LEU:HD12	25:VO:342:VAL:HG11	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:WI:200:MET:HE1	25:WI:236:ILE:HD13	1.90	0.53
25:WO:330:MET:HB3	25:WO:349:VAL:HG21	1.89	0.53
39:X1:150:ARG:HA	39:X1:172:HIS:HB2	1.90	0.53
39:X3:189:LYS:HA	39:X3:210:LEU:HA	1.91	0.53
24:XB:274:PRO:HG3	24:XB:286:LEU:HD11	1.89	0.53
25:XI:204:ASN:OD1	46:XI:501:GDP:O2'	2.26	0.53
24:XJ:215:ARG:NH2	24:XJ:299:ALA:O	2.41	0.53
40:Y0:386:LEU:HB3	40:Y0:413:THR:HA	1.91	0.53
40:Y2:177:ALA:HB1	40:Y2:183:SER:HA	1.90	0.53
41:Z3:597:GLU:HG2	41:Z3:601:HIS:CE1	2.44	0.53
24:ZB:265:ILE:HD11	24:ZB:431:ASP:HB3	1.91	0.53
25:ZE:3:GLU:HB3	25:ZE:62:ARG:HH12	1.73	0.53
24:ZF:77:GLU:HA	24:ZF:80:THR:HG22	1.89	0.53
25:ZK:49:VAL:HG11	25:ZK:241:ARG:HG2	1.91	0.53
2:1B:1718:ASN:HD21	2:1B:1794:LEU:HB2	1.74	0.53
2:1C:185:ALA:HB2	2:1C:1534:ARG:HH12	1.74	0.53
14:8B:128:LYS:NZ	24:UL:241:SER:O	2.42	0.53
15:9D:1083:ILE:HA	15:9D:1092:LEU:O	2.09	0.53
19:D0:341:VAL:HA	19:D0:344:LEU:HD12	1.91	0.53
19:D1:179:PRO:HA	19:D1:184:LYS:HE2	1.91	0.53
19:G0:17:ARG:HG2	19:G1:13:TYR:HE1	1.74	0.53
19:G5:287:GLN:HA	19:G5:290:VAL:HG12	1.89	0.53
19:J0:239:HIS:HB2	19:J0:243:LEU:HD12	1.90	0.53
19:K1:70:ASN:O	19:K1:112:ARG:NH2	2.41	0.53
19:L0:44:ALA:HA	19:L0:47:ARG:HG2	1.88	0.53
25:NK:176:SER:OG	25:NK:178:THR:O	2.27	0.53
24:NL:168:GLY:N	24:NL:200:VAL:O	2.36	0.53
24:OD:79:ARG:NH2	24:OD:92:LEU:O	2.42	0.53
24:OH:121:ARG:HH12	24:OH:124:LYS:HE2	1.73	0.53
25:PE:173:PRO:HD2	25:PE:205:GLU:HG3	1.91	0.53
24:PF:336:LYS:NZ	24:PF:348:PRO:O	2.42	0.53
25:PM:31:ASP:OD1	25:PM:35:THR:N	2.41	0.53
25:QC:2:ARG:HB3	25:QC:131:GLN:HB2	1.91	0.53
24:QL:56:THR:HG22	24:RL:285:GLN:HB2	1.91	0.53
25:RC:207:LEU:HD11	25:RC:229:ILE:HD11	1.90	0.53
24:RH:90:GLU:OE2	24:RH:121:ARG:NH2	2.38	0.53
25:RK:396:HIS:HA	25:RK:399:THR:HG22	1.91	0.53
24:RP:79:ARG:HH21	24:RP:92:LEU:HB3	1.74	0.53
24:SB:210:TYR:HE1	24:SB:227:LEU:HD11	1.74	0.53
24:TJ:265:ILE:HG23	24:TJ:432:PHE:HE1	1.73	0.53
24:TP:67:PHE:HB2	24:TP:92:LEU:HD23	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:UG:234:SER:O	25:UG:241:ARG:NH2	2.40	0.53
25:UI:253:LEU:HD11	25:UI:316:LEU:HD11	1.90	0.53
25:UM:11:GLN:NE2	24:UN:247:ALA:O	2.42	0.53
25:UO:135:VAL:HG11	25:UO:152:ILE:HD11	1.91	0.53
25:VG:135:VAL:HG11	25:VG:152:ILE:HD11	1.91	0.53
24:WF:391:LEU:HA	24:WF:394:LYS:HB2	1.89	0.53
24:WL:275:ILE:HG23	24:WL:368:LEU:HD21	1.90	0.53
25:WM:274:THR:OG1	25:WM:282:ARG:NH1	2.42	0.53
39:X3:396:VAL:HG11	39:X3:528:LEU:HD21	1.89	0.53
25:XO:3:GLU:HA	25:XO:49:VAL:HA	1.91	0.53
40:Y5:52:GLY:HA3	40:Y5:113:ILE:HG21	1.91	0.53
25:YC:60:VAL:HG11	25:YC:86:ARG:HH21	1.74	0.53
25:YG:4:ILE:HB	25:YG:50:TYR:HE1	1.73	0.53
24:YH:174:SER:HB2	24:YH:177:VAL:HB	1.90	0.53
24:YL:71:GLU:HB2	24:YL:98:ASP:HB3	1.91	0.53
25:ZE:25:SER:HB2	25:ZE:30:ILE:HB	1.91	0.53
2:1A:85:MET:HG3	2:1A:86:VAL:HG23	1.89	0.53
4:2B:169:ARG:HG3	24:PJ:163:LYS:HA	1.91	0.53
4:2B:546:ASN:HA	4:2B:687:PRO:HA	1.89	0.53
14:8A:207:ARG:HD3	24:RP:370:LYS:HB3	1.90	0.53
17:B1:312:ARG:HG2	24:QN:159:VAL:HG13	1.91	0.53
19:D5:266:PHE:HA	19:D5:269:LYS:HZ2	1.74	0.53
19:D6:62:ALA:HB3	19:D6:102:ALA:HB1	1.90	0.53
20:E0:127:LEU:HD22	20:E0:132:LEU:HD21	1.91	0.53
20:E1:377:ASP:OD2	24:VF:214:ARG:NH1	2.42	0.53
19:G3:394:ASP:HA	19:G3:397:LYS:HE3	1.90	0.53
19:G5:262:PHE:HD2	19:G5:264:ASP:H	1.55	0.53
19:I0:227:ARG:HE	19:I0:266:PHE:HD1	1.56	0.53
19:J1:324:SER:HB3	19:J1:327:LEU:HD13	1.91	0.53
19:J2:21:VAL:HA	19:J2:24:VAL:HG12	1.91	0.53
19:L0:65:LEU:HD21	19:L0:84:ILE:HG13	1.91	0.53
22:M1:159:VAL:HB	22:M1:207:PHE:HB3	1.90	0.53
25:NK:12:CYS:SG	25:NK:13:GLY:N	2.82	0.53
24:OJ:178:SER:O	25:OK:347:ASN:ND2	2.42	0.53
24:ON:76:ASP:OD2	25:OO:46:ARG:NH2	2.42	0.53
25:PI:260:PHE:HB2	25:PI:263:LEU:HG	1.89	0.53
24:PJ:244:PHE:HB2	24:PJ:356:ASN:HD21	1.73	0.53
25:PM:156:ARG:NH1	25:PM:160:PRO:O	2.42	0.53
24:PP:101:ASN:HD22	24:PP:143:GLY:HA2	1.73	0.53
28:Q0:130:LEU:HD21	28:Q0:142:THR:HA	1.91	0.53
28:Q1:851:LYS:NZ	28:Q1:992:THR:OG1	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:QG:396:HIS:HA	25:QG:399:THR:HG22	1.91	0.53
24:RH:137:VAL:HB	24:RH:168:GLY:HA2	1.90	0.53
25:RI:61:PRO:HD3	25:RI:84:ILE:HG22	1.90	0.53
25:RM:171:PRO:HG2	25:RM:185:ALA:HB2	1.91	0.53
24:SD:186:ASN:OD1	24:SD:408:TYR:OH	2.24	0.53
25:SI:86:ARG:NH2	25:TI:281:TYR:O	2.41	0.53
24:SN:186:ASN:OD1	24:SN:408:TYR:OH	2.26	0.53
25:TG:156:ARG:NH1	25:TG:195:ASN:O	2.40	0.53
25:TK:99:ASN:ND2	24:TL:254:GLU:OE2	2.42	0.53
25:TK:311:LEU:HD12	25:TK:342:VAL:HG21	1.90	0.53
25:TM:25:SER:HB2	25:TM:30:ILE:HB	1.90	0.53
25:TO:140:GLY:O	25:TO:184:ASN:ND2	2.37	0.53
24:UD:7:ILE:HD11	24:UD:137:VAL:HG22	1.90	0.53
24:UD:265:ILE:HG22	24:UD:380:ASN:HD21	1.73	0.53
24:UH:8:HIS:HD2	24:UH:138:PHE:HB2	1.74	0.53
25:UK:63:ALA:O	25:UK:89:ASN:ND2	2.42	0.53
24:VB:154:LEU:O	24:VB:166:LYS:NZ	2.41	0.53
25:VE:10:GLY:O	25:VE:14:ASN:ND2	2.42	0.53
25:VK:282:ARG:NH2	25:VK:288:GLU:OE2	2.42	0.53
24:VP:195:LEU:HA	24:VP:266:HIS:CE1	2.44	0.53
24:WD:251:ASP:OD1	24:WD:252:ILE:N	2.42	0.53
24:WH:273:ALA:HB2	24:WH:295:ALA:HB2	1.89	0.53
24:WJ:221:ARG:NE	25:WK:325:GLU:OE2	2.41	0.53
24:WJ:320:ARG:O	24:WJ:373:ARG:HA	2.09	0.53
39:X1:119:VAL:O	39:X1:122:ASN:ND2	2.39	0.53
24:XF:317:LEU:HB3	24:XF:319:TYR:HE1	1.74	0.53
25:XI:6:HIS:CE1	25:XI:8:GLN:HE21	2.27	0.53
25:XK:24:VAL:HG11	25:XK:50:TYR:HD2	1.73	0.53
40:Y2:348:CYS:O	40:Y2:352:THR:OG1	2.27	0.53
40:Y3:385:LEU:HA	40:Y3:412:MET:HB3	1.89	0.53
25:YC:139:LEU:HD12	25:YC:170:VAL:HG12	1.91	0.53
24:YD:262:TYR:HB2	24:YD:265:ILE:HB	1.91	0.53
25:YI:192:LEU:HD22	25:YI:196:ALA:HB2	1.90	0.53
25:YK:423:GLN:NE2	25:YK:427:ASP:OD2	2.41	0.53
41:Z1:345:GLY:O	41:Z1:348:ARG:NE	2.40	0.53
41:Z1:473:ALA:HB3	41:Z1:478:PRO:HG3	1.91	0.53
41:Z2:13:GLY:O	41:Z2:72:LYS:NZ	2.42	0.53
25:ZO:245:GLN:HB3	25:ZO:353:VAL:HG23	1.91	0.53
2:1D:1797:ARG:NH1	2:1D:1917:LEU:O	2.37	0.53
4:2B:927:PRO:HA	4:2B:1062:VAL:HA	1.90	0.53
13:7G:20:GLU:HA	13:7G:38:LYS:HA	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:8A:222:GLU:OE2	25:RO:216:LYS:NZ	2.42	0.53
17:B2:302:LEU:O	24:QF:264:ARG:NH1	2.41	0.53
18:C1:1050:SER:HB2	18:C1:1057:SER:HA	1.91	0.53
19:D0:301:TYR:O	19:D0:305:SER:HB3	2.09	0.53
19:D1:4:ARG:NH1	24:VN:423:GLU:OE2	2.42	0.53
19:D3:287:GLN:HA	19:D3:290:VAL:HG22	1.90	0.53
19:D7:253:PHE:HA	19:D7:256:ILE:HD12	1.91	0.53
20:E2:383:GLY:O	24:VB:176:GLN:NE2	2.41	0.53
21:F1:24:LYS:HE2	24:VL:419:SER:HB2	1.90	0.53
21:F2:166:ASP:OD1	21:F2:167:ASP:N	2.42	0.53
19:H2:264:ASP:HB3	19:H2:267:VAL:HG22	1.89	0.53
19:H3:315:MET:HG3	19:H3:358:TRP:HZ3	1.74	0.53
19:H4:395:ASP:OD2	19:H4:396:LEU:N	2.42	0.53
19:H5:353:LYS:HE2	19:H5:386:LEU:HD21	1.90	0.53
19:H6:324:SER:HB3	19:H6:327:LEU:HD13	1.90	0.53
19:J1:108:ARG:HD3	19:J1:147:TRP:HB3	1.91	0.53
19:L3:149:LEU:HD23	19:L3:152:ILE:HD11	1.90	0.53
22:M0:731:PRO:HG3	28:Q0:2478:LEU:HD22	1.90	0.53
24:NF:265:ILE:HG22	24:NF:380:ASN:HD21	1.74	0.53
25:OE:236:ILE:HD12	25:OE:368:ILE:HD11	1.89	0.53
25:OG:156:ARG:NH1	25:OG:162:ARG:O	2.41	0.53
25:OG:178:THR:HA	24:OH:352:LYS:HE2	1.91	0.53
24:OL:414:GLU:HG3	24:OL:416:GLY:H	1.73	0.53
25:OO:200:MET:HG3	25:OO:266:PHE:HB2	1.90	0.53
24:OP:221:ARG:NH1	25:OQ:325:GLU:OE2	2.41	0.53
25:OQ:412:GLU:HA	25:OQ:415:MET:HB2	1.90	0.53
24:PH:88:HIS:HD1	24:QH:283:HIS:HB3	1.74	0.53
28:Q0:1190:LEU:HD13	28:Q0:2114:HIS:HE2	1.74	0.53
25:QI:268:VAL:HG23	25:QI:300:MET:HB2	1.90	0.53
24:QJ:97:GLU:HA	25:QK:2:ARG:HH21	1.73	0.53
25:QK:248:ALA:HA	25:QK:252:LYS:HG3	1.90	0.53
24:RJ:180:ALA:HB3	24:RJ:183:GLU:HG3	1.91	0.53
24:SD:76:ASP:OD2	25:SE:46:ARG:NH2	2.42	0.53
25:SM:68:LEU:HB2	25:SM:143:THR:HG23	1.91	0.53
25:SO:299:MET:HG3	25:SO:305:PRO:HG3	1.91	0.53
25:TG:211:CYS:HA	25:TG:215:LEU:HB2	1.91	0.53
25:UI:113:ILE:HG13	25:UI:150:LEU:HD23	1.90	0.53
24:UJ:188:VAL:HG13	24:UJ:189:LEU:HD12	1.90	0.53
25:UO:176:SER:OG	25:UO:178:THR:O	2.26	0.53
24:VF:180:ALA:HB3	24:VF:183:GLU:HG3	1.91	0.53
25:VK:99:ASN:ND2	24:VL:254:GLU:OE2	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:WD:15:GLN:NE2	44:WD:501:GTP:O6	2.41	0.53
25:WI:6:HIS:CG	25:WI:8:GLN:HE22	2.27	0.53
24:WN:394:LYS:HZ1	25:WO:346:PRO:HG2	1.73	0.53
39:X2:508:TRP:HZ3	39:X2:606:ASN:HB2	1.74	0.53
24:XB:133:GLN:HG2	24:XB:252:ILE:HG22	1.90	0.53
24:XD:210:TYR:O	25:XE:324:LYS:NZ	2.42	0.53
24:XD:240:ALA:HA	24:XD:243:ARG:HE	1.73	0.53
24:XJ:240:ALA:HB3	24:XJ:320:ARG:HH12	1.74	0.53
40:Y7:72:LYS:HG3	40:Y7:167:GLU:HG2	1.91	0.53
25:YC:253:LEU:HD11	25:YC:316:LEU:HD21	1.91	0.53
25:YC:309:ARG:NH2	25:YC:426:GLN:O	2.42	0.53
24:YD:313:MET:HG3	24:YD:346:TRP:HH2	1.74	0.53
24:YF:181:VAL:HG23	25:YG:350:LYS:HB2	1.90	0.53
24:YJ:269:LEU:HD21	24:YJ:384:ILE:HG12	1.89	0.53
25:YK:187:LEU:HD11	25:YK:408:PHE:HE1	1.74	0.53
25:YM:248:ALA:HA	25:YM:252:LYS:HD3	1.91	0.53
41:Z2:189:LEU:HB3	41:Z2:199:ARG:HH12	1.73	0.53
25:ZK:99:ASN:ND2	24:ZL:254:GLU:OE1	2.42	0.53
24:ZL:205:ASP:HB2	24:ZL:303:VAL:HG23	1.91	0.53
25:ZM:191:GLN:O	25:ZM:195:ASN:ND2	2.41	0.53
25:ZM:313:ALA:HB1	25:ZM:367:PHE:HE1	1.73	0.53
2:1A:2092:LEU:HD23	2:1A:2241:LEU:HD21	1.91	0.53
2:1A:2272:ARG:NH2	18:C0:1511:PRO:HG3	2.24	0.53
6:2I:135:ALA:HA	6:2I:156:LEU:H	1.73	0.53
13:7I:96:ALA:HB1	13:7I:117:ALA:HA	1.91	0.53
18:C1:1199:GLY:O	18:C1:1203:ARG:HG2	2.09	0.53
19:D1:391:ALA:N	19:D1:394:ASP:OD1	2.41	0.53
19:G4:218:VAL:HG13	19:G4:226:LYS:HE3	1.91	0.53
19:H1:198:THR:HG22	19:H1:200:GLU:H	1.74	0.53
19:I0:21:VAL:HG11	19:I0:57:ILE:HG23	1.91	0.53
19:I0:269:LYS:HE2	19:I0:309:ASN:HA	1.90	0.53
19:J3:193:ASP:HB2	19:J3:196:LYS:HZ2	1.74	0.53
19:K3:301:TYR:O	19:K3:305:SER:CB	2.56	0.53
23:N3:131:ALA:HB2	23:N3:141:VAL:HG21	1.91	0.53
25:NC:396:HIS:HA	25:NC:399:THR:HG22	1.91	0.53
24:NL:236:SER:OG	24:NL:243:ARG:NH2	2.41	0.53
25:OC:20:PHE:HA	25:OC:230:SER:HB2	1.91	0.53
25:OC:130:LEU:O	25:OC:162:ARG:NE	2.41	0.53
24:OD:195:LEU:HD11	24:OD:428:LEU:HD12	1.91	0.53
24:ON:89:PRO:HG2	24:PN:280:LYS:HZ2	1.74	0.53
25:PI:69:GLU:HG2	25:PI:71:GLY:H	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:PI:342:VAL:HG12	25:PI:345:ILE:H	1.73	0.53
25:PO:211:CYS:HB3	25:PO:220:PRO:HG2	1.91	0.53
25:PQ:113:ILE:HG13	25:PQ:150:LEU:HD23	1.90	0.53
28:Q1:2711:LEU:HD22	28:Q1:2833:LEU:HG	1.91	0.53
24:QH:180:ALA:HB3	24:QH:183:GLU:HG3	1.90	0.53
25:QI:89:ASN:HA	25:QI:119:VAL:HG21	1.91	0.53
29:R1:61:LEU:HD23	29:R1:106:ARG:HE	1.73	0.53
24:RF:71:GLU:OE1	25:RG:2:ARG:NH2	2.41	0.53
24:SB:217:LEU:HD11	24:SB:367:ASP:HB2	1.91	0.53
25:SI:135:VAL:HG21	25:SI:152:ILE:HD11	1.91	0.53
24:SJ:178:SER:OG	24:SJ:180:ALA:O	2.25	0.53
24:TD:399:TYR:O	24:TD:402:ARG:NH1	2.42	0.53
24:TL:180:ALA:HA	25:TM:350:LYS:HG2	1.90	0.53
24:TP:65:CYS:SG	24:TP:66:ILE:N	2.82	0.53
25:VC:248:ALA:HA	25:VC:252:LYS:HD3	1.91	0.53
25:VM:19:LYS:HZ3	25:VM:227:HIS:HB2	1.73	0.53
24:VN:223:THR:HB	25:VO:322:SER:HA	1.90	0.53
39:X0:202:ARG:NH2	40:Y0:463:GLU:O	2.41	0.53
24:XB:50:ASN:O	24:XB:64:ARG:NH1	2.42	0.53
24:XF:77:GLU:HA	24:XF:80:THR:HG22	1.91	0.53
25:XK:278:SER:HA	25:XK:281:TYR:HD2	1.74	0.53
40:Y2:78:ALA:HB3	40:Y2:422:ASP:HB2	1.90	0.53
40:Y4:338:ASP:OD1	40:Y4:362:ASP:N	2.38	0.53
40:Y7:180:ALA:O	40:Y7:477:TRP:NE1	2.40	0.53
24:YD:116:ASP:OD1	24:YD:117:LEU:N	2.42	0.53
25:YM:324:LYS:HA	25:YM:327:ASP:HB3	1.91	0.53
25:ZO:192:LEU:HD22	25:ZO:196:ALA:HB2	1.90	0.53
2:1B:1587:VAL:HG23	2:1B:1589:LYS:HG3	1.90	0.52
2:1B:1597:LEU:HD21	2:1B:1606:LEU:HB2	1.91	0.52
2:1C:1597:LEU:HD21	2:1C:1606:LEU:HB2	1.91	0.52
2:1D:1607:VAL:HG21	2:1D:1692:LEU:HD22	1.91	0.52
14:8C:2:SER:N	25:YI:224:ASP:OD1	2.42	0.52
18:C2:1494:ALA:HB1	18:C2:1518:LEU:HD11	1.91	0.52
18:C2:1623:GLU:O	18:C2:1627:HIS:CB	2.58	0.52
19:D0:138:ASP:HA	21:F1:120:ARG:HH12	1.73	0.52
19:D1:338:PRO:HA	19:D1:341:VAL:HG22	1.90	0.52
19:G2:264:ASP:HB3	19:G2:267:VAL:HG22	1.90	0.52
19:G4:227:ARG:NH2	19:G4:264:ASP:OD2	2.42	0.52
19:H0:287:GLN:HA	19:H0:290:VAL:HG22	1.91	0.52
19:H2:222:ASP:HB3	19:H2:225:LEU:HB2	1.91	0.52
19:H5:21:VAL:HG21	19:H5:57:ILE:HG23	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:J1:85:LEU:HD11	19:J1:110:VAL:HG11	1.90	0.52
19:K0:287:GLN:HA	19:K0:290:VAL:HG22	1.91	0.52
19:L1:427:GLU:OE2	19:L1:476:GLU:HG2	2.09	0.52
19:L3:253:PHE:HD2	19:L3:292:ASN:HD21	1.56	0.52
25:NE:3:GLU:HB2	25:NE:62:ARG:HH12	1.74	0.52
25:OE:204:ASN:HD21	46:OE:501:GDP:HN22	1.57	0.52
24:OF:414:GLU:HG3	24:OF:416:GLY:H	1.75	0.52
24:OL:147:SER:HB2	24:OL:190:SER:HB3	1.91	0.52
24:ON:244:PHE:HB2	24:ON:356:ASN:HD21	1.74	0.52
24:PH:262:TYR:HB2	24:PH:265:ILE:HG12	1.91	0.52
25:PO:139:LEU:HD12	25:PO:170:VAL:HG22	1.91	0.52
28:Q0:913:PRO:HB2	28:Q0:925:LEU:HD12	1.91	0.52
28:Q1:2316:ASP:OD1	28:Q1:2316:ASP:N	2.42	0.52
25:QG:31:ASP:OD1	25:QG:35:THR:N	2.38	0.52
25:QI:171:PRO:HB3	25:QI:181:GLU:HB3	1.90	0.52
25:QK:135:VAL:HG21	25:QK:152:ILE:HD11	1.91	0.52
25:QM:48:ASN:O	25:QM:62:ARG:NH2	2.43	0.52
25:RM:397:TRP:NE1	24:RN:256:GLN:O	2.42	0.52
24:SF:265:ILE:HG23	24:SF:432:PHE:HE1	1.74	0.52
25:SI:209:ASP:OD2	25:SI:213:ARG:NH2	2.42	0.52
25:SK:215:LEU:HD21	25:SK:273:LEU:HB3	1.90	0.52
24:SL:16:VAL:O	24:SL:20:CYS:N	2.40	0.52
25:TC:220:PRO:HD2	24:TD:326:LYS:HD3	1.90	0.52
24:TF:339:ARG:O	24:TF:342:GLN:NE2	2.42	0.52
25:TG:309:ARG:HD2	25:TG:342:VAL:HG23	1.90	0.52
25:TM:67:ASP:OD2	25:TM:72:THR:OG1	2.26	0.52
25:UE:71:GLY:H	24:UF:2:ARG:HH22	1.57	0.52
25:UG:215:LEU:HD11	25:UG:228:LEU:HD21	1.90	0.52
25:UK:313:ALA:HB1	25:UK:367:PHE:HE1	1.74	0.52
24:VH:180:ALA:HB3	24:VH:183:GLU:HG3	1.91	0.52
25:VK:248:ALA:HA	25:VK:252:LYS:HD2	1.91	0.52
25:WE:31:ASP:OD1	25:WE:35:THR:N	2.38	0.52
25:WG:272:PRO:HG3	25:WG:364:SER:HA	1.91	0.52
24:WH:241:SER:HA	24:WH:356:ASN:HD22	1.74	0.52
39:X3:211:ARG:HH12	39:X3:231:GLN:HB3	1.73	0.52
39:X3:508:TRP:HH2	39:X3:593:HIS:HE2	1.55	0.52
25:XC:278:SER:HA	25:XC:281:TYR:HD1	1.73	0.52
25:XE:204:ASN:OD1	46:XE:501:GDP:O2'	2.25	0.52
24:XF:108:TYR:O	24:XF:112:LYS:NZ	2.40	0.52
24:XL:324:VAL:HG22	24:XL:326:LYS:H	1.74	0.52
24:YB:223:THR:HA	25:YC:323:THR:HG22	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:YE:36:TYR:HB2	25:YE:59:TYR:HE2	1.74	0.52
25:YG:221:THR:HA	24:YH:325:PRO:HD2	1.90	0.52
25:YM:314:SER:HB3	25:YM:368:ILE:HB	1.91	0.52
25:ZI:98:GLY:O	24:ZJ:257:THR:OG1	2.23	0.52
24:ZP:298:PRO:HB3	24:ZP:307:PRO:HD2	1.91	0.52
2:1A:1687:VAL:HG21	2:1A:1714:LEU:HD21	1.90	0.52
2:1B:2449:GLY:HA2	18:C1:1210:ARG:NH1	2.23	0.52
2:1D:1352:HIS:HB2	2:1D:1418:LEU:HD22	1.89	0.52
18:C0:391:ARG:HH21	18:C0:394:GLN:HE22	1.57	0.52
18:C0:1247:GLU:HA	18:C0:1250:ARG:HG2	1.91	0.52
18:C1:555:ARG:HH21	18:C1:1453:ALA:HB1	1.74	0.52
18:C1:588:ALA:O	18:C1:591:THR:OG1	2.22	0.52
19:D4:344:LEU:O	19:D4:353:LYS:NZ	2.42	0.52
19:D5:185:ARG:HH21	19:D5:225:LEU:HG	1.75	0.52
19:D7:265:GLU:OE1	19:D7:309:ASN:ND2	2.30	0.52
20:E3:409:TYR:OH	25:VM:205:GLU:OE2	2.27	0.52
21:F2:99:TYR:OH	21:F2:166:ASP:O	2.28	0.52
19:G2:245:GLU:HA	19:G2:248:VAL:HG12	1.91	0.52
19:G2:276:ARG:HH11	19:G2:316:ALA:HA	1.74	0.52
19:G4:290:VAL:HG21	19:G4:327:LEU:HD22	1.92	0.52
19:H2:153:ALA:HB2	19:H2:163:VAL:HG21	1.91	0.52
19:H5:241:VAL:HG12	19:H5:281:HIS:HB3	1.91	0.52
19:J3:393:SER:OG	19:J3:394:ASP:N	2.40	0.52
25:NE:8:GLN:HE22	25:NE:63:ALA:HB1	1.74	0.52
24:NJ:394:LYS:NZ	25:NK:346:PRO:O	2.42	0.52
24:NL:71:GLU:OE2	25:NM:2:ARG:NH2	2.42	0.52
25:NM:3:GLU:HA	25:NM:49:VAL:HG23	1.90	0.52
25:OC:237:THR:HG23	25:OC:241:ARG:HH11	1.73	0.52
24:OF:187:SER:O	24:OF:191:THR:OG1	2.26	0.52
24:OH:265:ILE:HG12	24:OH:313:MET:HE1	1.91	0.52
25:OO:16:ILE:HD12	25:OO:229:ILE:HG21	1.91	0.52
25:OO:31:ASP:OD1	25:OO:35:THR:N	2.40	0.52
25:PG:272:PRO:HG3	25:PG:364:SER:HA	1.91	0.52
24:PJ:319:TYR:HB3	24:PJ:323:VAL:HG21	1.91	0.52
25:PK:207:LEU:HB3	25:PK:225:LEU:HD22	1.91	0.52
25:QI:54:ALA:HA	25:RI:283:ALA:HB2	1.91	0.52
24:QL:102:ASN:HB3	24:QL:105:ARG:HB2	1.89	0.52
25:QM:32:PRO:O	25:QM:83:GLN:NE2	2.41	0.52
25:RG:405:GLU:HA	25:RG:408:PHE:HD2	1.74	0.52
24:RH:130:THR:OG1	24:RH:131:GLY:N	2.41	0.52
24:RH:247:ALA:HB3	24:RH:355:ILE:HB	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:SC:54:ALA:HB3	25:SC:58:ARG:HB3	1.91	0.52
24:SD:342:GLN:NE2	24:SD:343:PHE:O	2.42	0.52
25:SG:11:GLN:HA	25:SG:72:THR:HG21	1.91	0.52
25:SG:392:LYS:NZ	25:SG:405:GLU:OE1	2.38	0.52
24:SL:212:ILE:HD13	24:SL:300:SER:HA	1.90	0.52
24:SP:316:CYS:HA	24:SP:352:LYS:HB3	1.90	0.52
25:TK:203:ASP:N	25:TK:203:ASP:OD2	2.40	0.52
24:TL:178:SER:HB2	25:TM:347:ASN:HD22	1.74	0.52
24:TL:252:ILE:HD12	24:TL:255:PHE:HD2	1.74	0.52
24:TL:254:GLU:OE2	24:TL:258:ASN:ND2	2.41	0.52
24:TL:372:GLN:HG3	24:TL:373:ARG:HD3	1.90	0.52
24:TL:405:VAL:HG13	24:TL:418:PHE:HE2	1.75	0.52
24:UD:70:LEU:HA	24:UD:95:GLY:HA3	1.91	0.52
25:UG:272:PRO:HG2	25:UG:361:LEU:HD13	1.90	0.52
24:UL:240:ALA:HA	24:UL:243:ARG:HE	1.74	0.52
25:UM:204:ASN:OD1	46:UM:501:GDP:O2'	2.26	0.52
25:VI:73:MET:O	25:VI:77:ARG:HB2	2.09	0.52
24:WB:384:ILE:HA	24:WB:387:ILE:HD12	1.92	0.52
24:WD:306:ASP:OD2	24:WD:309:HIS:N	2.41	0.52
24:WH:75:VAL:HG11	24:WH:94:SER:HB2	1.90	0.52
25:WI:375:GLN:HB2	25:WI:419:VAL:HG23	1.91	0.52
40:Y0:218:SER:N	40:Y0:222:GLU:OE2	2.36	0.52
40:Y1:365:LEU:HD12	40:Y1:372:VAL:HG22	1.91	0.52
40:Y2:417:SER:O	40:Y2:447:ARG:NH2	2.42	0.52
40:Y7:366:VAL:HG22	40:Y7:371:ARG:HD2	1.92	0.52
25:YG:31:ASP:OD1	25:YG:35:THR:N	2.42	0.52
41:Z1:150:VAL:HG11	41:Z1:162:THR:HG21	1.91	0.52
41:Z2:411:THR:OG1	41:Z2:415:VAL:O	2.27	0.52
41:Z2:541:LYS:HE2	41:Z2:593:ALA:HA	1.92	0.52
24:ZB:192:HIS:NE2	24:ZB:420:GLU:OE1	2.42	0.52
25:ZE:32:PRO:O	25:ZE:83:GLN:NE2	2.38	0.52
25:ZM:177:ASP:OD1	25:ZM:178:THR:N	2.42	0.52
24:ZN:240:ALA:HB1	24:ZN:356:ASN:HD22	1.73	0.52
2:1D:1610:VAL:HG12	2:1D:1684:ARG:HE	1.74	0.52
2:1D:1912:HIS:HA	2:1D:1915:LYS:HG2	1.91	0.52
14:8A:255:ARG:HH22	19:J3:113:HIS:CE1	2.27	0.52
17:B2:270:THR:H	17:B2:273:GLU:HB2	1.75	0.52
18:C1:595:ARG:HG2	18:C1:822:ASP:H	1.74	0.52
18:C1:1671:GLU:H	18:C1:1748:LYS:HZ1	1.57	0.52
18:C2:562:HIS:ND1	18:C2:805:PRO:O	2.38	0.52
19:G2:383:LEU:O	19:G2:397:LYS:NZ	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:I0:23:ALA:O	19:I0:27:MET:HB2	2.08	0.52
19:L1:224:LYS:HA	19:L1:227:ARG:HE	1.75	0.52
23:N1:30:VAL:HA	23:N1:33:ASN:HD22	1.73	0.52
25:NI:283:ALA:HA	25:ZI:55:THR:HG23	1.91	0.52
25:PE:63:ALA:O	25:PE:89:ASN:ND2	2.38	0.52
24:PF:101:ASN:OD1	25:PG:252:LYS:NZ	2.34	0.52
25:PM:47:ILE:HG22	25:PM:51:PHE:HB2	1.92	0.52
24:PN:271:SER:HA	24:PN:302:MET:HG3	1.91	0.52
25:PO:179:VAL:HG23	24:PP:350:GLY:HA2	1.90	0.52
24:QH:17:GLY:HA2	24:QH:20:CYS:HB3	1.91	0.52
24:RD:226:ASN:ND2	24:RD:367:ASP:OD2	2.42	0.52
25:RK:222:PHE:O	25:RK:226:ASN:ND2	2.43	0.52
24:RN:96:LYS:HE2	25:RO:1:MET:HG2	1.90	0.52
24:RN:384:ILE:HA	24:RN:387:ILE:HD12	1.90	0.52
25:RO:2:ARG:HE	25:RO:240:LEU:HD23	1.75	0.52
24:SB:119:LEU:HD11	24:SB:156:ARG:HG2	1.90	0.52
25:SO:257:LEU:HD11	25:SO:314:SER:HB3	1.90	0.52
24:TF:9:ILE:HD11	24:TF:153:LEU:HD23	1.90	0.52
25:UC:32:PRO:O	25:UC:83:GLN:NE2	2.39	0.52
25:UI:178:THR:HG22	24:UJ:352:LYS:HZ3	1.73	0.52
24:UN:240:ALA:HB1	24:UN:356:ASN:HD22	1.73	0.52
25:WA:117:LEU:HB3	25:WA:121:ARG:HH21	1.74	0.52
39:X0:282:LEU:H	39:X0:308:MET:HE2	1.74	0.52
25:XE:117:LEU:HB3	25:XE:121:ARG:HH12	1.75	0.52
25:XG:163:MET:HE3	25:XG:164:MET:H	1.74	0.52
25:XO:236:ILE:HD12	25:XO:368:ILE:HD11	1.91	0.52
40:Y3:168:LYS:HB3	40:Y3:170:VAL:HG22	1.89	0.52
25:YE:174:LYS:HZ3	24:YF:333:ALA:HB2	1.73	0.52
25:YK:176:SER:OG	25:YK:178:THR:O	2.27	0.52
25:ZE:176:SER:OG	25:ZE:178:THR:O	2.26	0.52
25:ZG:52:ASN:OD1	25:ZG:62:ARG:NH2	2.43	0.52
2:1A:2034:PHE:HB3	2:1A:2128:LEU:HG	1.91	0.52
2:1B:2041:THR:HG23	2:1B:2080:THR:H	1.74	0.52
4:2B:220:ARG:NH2	25:PI:376:GLU:OE2	2.39	0.52
6:2I:535:TYR:HA	6:2I:542:PRO:HA	1.90	0.52
17:B0:708:LEU:HA	17:B0:711:VAL:HG12	1.91	0.52
18:C0:589:ILE:O	18:C0:595:ARG:NH2	2.43	0.52
18:C2:577:ALA:O	18:C2:579:GLN:NE2	2.43	0.52
18:C3:49:THR:HG22	18:C3:50:LYS:H	1.73	0.52
18:C3:714:VAL:HA	18:C3:717:MET:HG2	1.91	0.52
19:D1:25:ALA:O	19:D1:67:ARG:NH1	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:D2:237:ALA:HB2	19:D2:247:VAL:HG21	1.91	0.52
20:E0:355:ARG:NH2	19:L0:3:THR:OG1	2.42	0.52
21:F2:317:ASN:O	21:F2:421:ARG:HA	2.10	0.52
19:H0:21:VAL:HA	19:H0:24:VAL:HG12	1.91	0.52
19:H2:76:ALA:HB1	19:H2:110:VAL:HG23	1.92	0.52
19:H6:276:ARG:HH22	19:H6:320:ILE:HD11	1.74	0.52
19:L1:196:LYS:HG3	19:L1:197:HIS:HD2	1.73	0.52
24:NH:273:ALA:HB3	24:NH:375:VAL:HB	1.91	0.52
25:OC:299:MET:HG3	25:OC:301:CYS:H	1.74	0.52
24:OD:271:SER:HB2	24:OD:377:MET:HB3	1.91	0.52
25:OG:253:LEU:HD11	25:OG:316:LEU:HD11	1.91	0.52
25:OK:178:THR:HA	24:OL:352:LYS:HE2	1.91	0.52
24:PD:31:GLN:HG3	24:PD:33:ASP:H	1.75	0.52
24:PH:217:LEU:HG	24:PH:275:ILE:HG22	1.92	0.52
25:PK:376:GLU:OE2	25:PK:380:ARG:NH2	2.42	0.52
24:PN:107:HIS:CE1	24:PN:152:LEU:HD13	2.44	0.52
28:Q0:512:LEU:HD22	28:Q0:527:LEU:HD11	1.91	0.52
28:Q1:632:LEU:HD22	28:Q1:635:LEU:HD13	1.91	0.52
28:Q1:916:LEU:HD21	28:Q1:926:VAL:HB	1.90	0.52
24:QD:417:GLU:HA	24:QD:420:GLU:HG3	1.92	0.52
25:QK:83:GLN:O	25:RK:281:TYR:OH	2.27	0.52
25:QM:156:ARG:NE	25:QM:195:ASN:O	2.41	0.52
29:R0:61:LEU:HD23	29:R0:106:ARG:HE	1.73	0.52
24:SD:102:ASN:HB3	24:SD:105:ARG:HB2	1.90	0.52
24:SH:268:MET:SD	24:SH:380:ASN:ND2	2.82	0.52
24:SL:109:THR:HG21	24:SL:411:GLU:HB3	1.91	0.52
25:SO:238:CYS:HB2	25:SO:318:ARG:HH11	1.74	0.52
25:TC:16:ILE:HD12	25:TC:229:ILE:HG21	1.92	0.52
24:TD:185:TYR:HE2	24:TD:404:PHE:HB2	1.75	0.52
25:TM:211:CYS:HA	25:TM:215:LEU:HB2	1.91	0.52
25:VG:54:ALA:HA	25:WG:283:ALA:HB2	1.92	0.52
25:VM:39:ASP:OD1	25:VM:43:GLN:NE2	2.43	0.52
35:W0:692:LEU:HA	35:W0:698:PRO:HA	1.89	0.52
25:WC:2:ARG:HB3	25:WC:131:GLN:HB2	1.89	0.52
24:WD:70:LEU:HD12	24:WD:145:THR:HG22	1.92	0.52
24:WF:402:ARG:HG3	24:WF:405:VAL:HG21	1.91	0.52
25:WK:219:THR:HB	24:WL:324:VAL:HG11	1.91	0.52
24:WL:211:ASP:OD1	24:WL:215:ARG:NH1	2.42	0.52
24:WN:207:GLU:HA	24:WN:210:TYR:HB2	1.90	0.52
39:X0:222:SER:OG	40:Y0:463:GLU:OE1	2.28	0.52
24:XF:175:PRO:HB3	24:XF:390:ARG:HD2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:XN:259:LEU:HB3	24:XN:268:MET:SD	2.50	0.52
40:Y2:367:THR:HG23	40:Y2:391:ILE:HG12	1.92	0.52
40:Y5:426:ALA:HB1	40:Y5:454:LEU:HG	1.92	0.52
41:Z0:45:PHE:O	41:Z0:63:ASN:ND2	2.43	0.52
25:ZC:198:GLU:HA	25:ZC:264:HIS:HB2	1.92	0.52
24:ZL:215:ARG:NH2	24:ZL:299:ALA:O	2.42	0.52
25:ZM:211:CYS:HA	25:ZM:215:LEU:HB2	1.92	0.52
2:1C:2163:GLN:HG3	2:1C:2292:SER:HB3	1.91	0.52
2:1D:1253:THR:HG21	43:1D:2602:ANP:H3'	1.92	0.52
2:1D:2201:VAL:HG11	18:C3:1556:LYS:HD3	1.92	0.52
13:7F:145:GLY:N	13:7F:161:PHE:O	2.42	0.52
17:B1:566:ARG:NH1	25:RG:404:ASP:OD2	2.41	0.52
18:C3:596:LEU:HD23	18:C3:823:ALA:HB3	1.91	0.52
19:D1:95:GLN:HG2	19:D1:96:ASN:H	1.74	0.52
19:D6:27:MET:HB3	19:D6:33:ASN:HD22	1.75	0.52
19:D7:170:PRO:HA	19:D7:173:VAL:HG22	1.91	0.52
19:H5:170:PRO:HA	19:H5:173:VAL:HG12	1.92	0.52
19:H6:144:ALA:HA	19:H6:147:TRP:HD1	1.74	0.52
19:I0:253:PHE:HA	19:I0:256:ILE:HD12	1.90	0.52
19:J0:52:ASP:O	19:J0:58:GLN:NE2	2.43	0.52
25:NK:2:ARG:HD2	25:NK:240:LEU:HD22	1.90	0.52
25:NO:55:THR:HG23	25:OQ:283:ALA:HA	1.91	0.52
25:PI:222:PHE:HA	25:PI:225:LEU:HD12	1.91	0.52
25:QI:98:GLY:HA2	24:QJ:254:GLU:HG3	1.91	0.52
24:QP:308:ARG:NH1	37:W7:47:UNK:O	2.41	0.52
29:R1:11:LEU:HD21	29:R1:26:VAL:HG11	1.90	0.52
24:RH:7:ILE:HD11	24:RH:137:VAL:HG22	1.91	0.52
30:S3:119:ARG:HG3	30:S3:122:ALA:HB3	1.91	0.52
25:SC:314:SER:N	25:SC:368:ILE:O	2.41	0.52
25:SE:55:THR:HG23	25:TE:283:ALA:HA	1.90	0.52
24:SF:105:ARG:HA	24:SF:109:THR:HB	1.90	0.52
24:SH:195:LEU:HA	24:SH:266:HIS:HE1	1.74	0.52
25:SK:176:SER:OG	25:SK:178:THR:O	2.28	0.52
25:SM:219:THR:HA	24:SN:326:LYS:HE2	1.89	0.52
24:SN:286:LEU:O	24:SN:373:ARG:NH2	2.42	0.52
25:TC:3:GLU:OE2	25:TC:129:CYS:N	2.42	0.52
25:TC:210:ILE:O	25:TC:214:THR:OG1	2.23	0.52
25:TC:382:SER:HB2	25:TC:415:MET:HG3	1.91	0.52
25:UG:3:GLU:HA	25:UG:49:VAL:HA	1.91	0.52
25:UG:289:LEU:HD11	25:UG:363:MET:HG3	1.91	0.52
24:VB:288:VAL:HG13	24:VB:319:TYR:HE2	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:WO:207:LEU:HD11	25:WO:229:ILE:HD11	1.91	0.52
25:WO:257:LEU:O	25:WO:370:ASN:ND2	2.42	0.52
39:X3:195:HIS:HA	39:X3:217:HIS:HB2	1.90	0.52
24:XH:90:GLU:OE1	24:XH:121:ARG:NE	2.42	0.52
40:Y0:79:VAL:HG12	40:Y0:154:LEU:HD22	1.92	0.52
40:Y5:145:LYS:HG2	40:Y5:153:ILE:HD13	1.91	0.52
24:YN:273:ALA:HB3	24:YN:375:VAL:H	1.75	0.52
25:YO:2:ARG:HB3	25:YO:131:GLN:HB2	1.91	0.52
25:YO:252:LYS:O	25:YO:256:ASN:ND2	2.43	0.52
41:Z1:349:ILE:HB	41:Z1:352:VAL:HG12	1.91	0.52
25:ZC:176:SER:OG	25:ZC:178:THR:O	2.28	0.52
24:ZD:274:PRO:HD3	24:ZD:291:ILE:HB	1.91	0.52
24:ZH:206:ASN:N	24:ZH:206:ASN:HD22	2.06	0.52
1:0A:39:ALA:HB2	1:0B:16:ALA:HB1	1.91	0.52
2:1A:1422:ASP:HA	2:1A:1425:VAL:HG22	1.92	0.52
2:1C:1348:LEU:HD21	2:1C:1441:SER:HB3	1.90	0.52
2:1C:1604:LEU:HD13	2:1C:1701:LEU:HB3	1.92	0.52
2:1D:854:ALA:HB3	2:1D:866:THR:O	2.10	0.52
17:B0:732:LEU:HB3	24:QJ:159:VAL:HG11	1.90	0.52
18:C0:1647:GLN:HA	18:C0:1650:ILE:HG12	1.92	0.52
18:C1:1241:GLU:HG2	18:C1:1245:ARG:HH12	1.74	0.52
18:C1:1516:LEU:HB3	18:C1:1523:LEU:HD11	1.91	0.52
18:C3:111:HIS:HB3	19:D2:51:LEU:HD11	1.90	0.52
19:D2:52:ASP:O	19:D2:58:GLN:NE2	2.42	0.52
20:E3:155:THR:HG22	20:E3:156:TYR:H	1.74	0.52
21:F3:120:ARG:HG3	21:F3:147:LYS:HD2	1.92	0.52
19:G5:233:LEU:HD13	19:G5:236:ILE:HD11	1.91	0.52
19:H4:21:VAL:HA	19:H4:24:VAL:HG22	1.92	0.52
19:H5:198:THR:HB	19:H5:201:LEU:HD23	1.90	0.52
19:H6:282:THR:OG1	19:H6:284:GLU:OE1	2.27	0.52
19:I0:45:LEU:HD22	19:I1:17:ARG:HH12	1.75	0.52
19:I0:268:LYS:HB3	19:I0:301:TYR:CE1	2.45	0.52
19:J0:253:PHE:HA	19:J0:256:ILE:HG22	1.92	0.52
19:J1:114:SER:HB3	19:J1:117:LEU:HG	1.90	0.52
19:K3:17:ARG:HD3	19:K3:57:ILE:HG21	1.91	0.52
19:L0:98:PHE:HA	19:L0:101:GLN:HG2	1.92	0.52
22:M1:385:MET:HB3	22:M1:387:LEU:HD23	1.91	0.52
23:N2:85:LEU:HA	23:N2:88:LEU:HD12	1.91	0.52
24:OH:242:LEU:HD11	24:OH:252:ILE:HG12	1.92	0.52
25:OO:242:PHE:HB3	25:OO:356:ILE:HD13	1.91	0.52
24:OP:180:ALA:HB3	24:OP:183:GLU:HB2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:PI:99:ASN:HB2	24:PJ:254:GLU:HG3	1.92	0.52
24:PL:94:SER:OG	37:W7:163:UNK:O	2.28	0.52
25:PM:33:THR:O	25:PM:58:ARG:NH1	2.40	0.52
24:PN:123:ARG:NH2	24:PN:160:ASP:OD2	2.43	0.52
24:PP:1:MET:N	24:PP:130:THR:OG1	2.42	0.52
28:Q0:1379:GLN:NE2	28:Q0:1662:GLU:O	2.42	0.52
25:QC:282:ARG:NH2	25:QC:288:GLU:O	2.42	0.52
25:QG:235:GLY:HA3	25:QG:366:THR:HG21	1.90	0.52
24:QP:71:GLU:HG2	24:QP:73:THR:HG22	1.92	0.52
24:RD:143:GLY:O	24:RD:147:SER:N	2.39	0.52
25:RM:324:LYS:O	25:RM:327:ASP:N	2.40	0.52
30:S3:75:ARG:HH21	24:WB:357:TYR:HB2	1.75	0.52
24:SD:264:ARG:NH1	24:SD:431:ASP:OD2	2.42	0.52
25:SE:375:GLN:HB3	25:SE:422:TYR:HB3	1.92	0.52
32:T2:61:GLY:O	25:XG:425:TYR:OH	2.28	0.52
25:TE:237:THR:HG22	25:TE:250:LEU:HD21	1.92	0.52
25:TK:130:LEU:O	25:TK:162:ARG:NH1	2.42	0.52
24:UH:9:ILE:HG22	24:UH:146:GLY:HA2	1.91	0.52
24:UH:259:LEU:HD11	24:UH:316:CYS:HB2	1.92	0.52
25:UK:99:ASN:ND2	24:UL:254:GLU:OE1	2.43	0.52
24:VP:49:PHE:HE2	24:VP:55:GLU:HB2	1.75	0.52
24:WF:399:TYR:OH	24:WF:415:GLU:OE2	2.27	0.52
39:X1:565:TRP:HZ3	39:X1:624:THR:HG23	1.75	0.52
39:X2:212:GLU:HA	39:X2:234:VAL:HB	1.91	0.52
25:XG:5:VAL:HG22	25:XG:62:ARG:HD3	1.90	0.52
40:Y4:121:LEU:HD22	40:Y4:132:ILE:HD11	1.92	0.52
40:Y5:401:VAL:HG11	40:Y5:432:LEU:HD22	1.91	0.52
40:Y6:50:VAL:HG22	40:Y6:68:VAL:HG22	1.90	0.52
40:Y7:415:HIS:ND1	40:Y7:416:ARG:O	2.39	0.52
24:YB:168:GLY:N	24:YB:200:VAL:O	2.37	0.52
24:YJ:226:ASN:ND2	24:YJ:367:ASP:OD2	2.43	0.52
24:YL:251:ASP:OD2	24:YL:252:ILE:N	2.43	0.52
25:ZC:309:ARG:NH1	25:ZC:339:SER:O	2.42	0.52
25:ZE:290:THR:HG21	25:ZE:329:GLN:HB3	1.91	0.52
25:ZG:204:ASN:O	25:ZG:208:TYR:N	2.41	0.52
2:1D:2452:ARG:NH2	18:C3:1206:ASP:O	2.37	0.52
9:3O:212:GLN:O	9:3O:217:GLU:N	2.42	0.52
11:5A:235:LEU:HA	11:5A:281:ALA:HB1	1.92	0.52
14:8D:99:ALA:HB2	25:WC:218:THR:HG21	1.92	0.52
19:D0:287:GLN:HA	19:D0:290:VAL:HG22	1.92	0.52
19:D5:185:ARG:HB2	19:D5:228:GLN:HG2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:G5:214:LEU:HD23	19:G5:217:LEU:HD12	1.91	0.52
19:I0:265:GLU:OE2	19:I0:309:ASN:ND2	2.42	0.52
19:L2:219:ILE:HG12	19:L2:255:LYS:HD3	1.92	0.52
19:L3:144:ALA:HA	19:L3:147:TRP:HD1	1.75	0.52
22:M0:752:GLU:OE2	28:Q0:2496:GLN:NE2	2.42	0.52
22:M1:64:ARG:NH2	25:UK:431:GLU:O	2.43	0.52
25:NE:69:GLU:OE1	24:NF:2:ARG:NH1	2.43	0.52
25:NM:156:ARG:NH2	25:NM:197:ASP:OD1	2.40	0.52
25:NM:167:PHE:HA	25:NM:200:MET:HB2	1.90	0.52
24:NN:316:CYS:HA	24:NN:352:LYS:HB3	1.91	0.52
24:OH:264:ARG:NH1	24:OH:431:ASP:OD2	2.42	0.52
25:OK:20:PHE:HA	25:OK:230:SER:HB2	1.92	0.52
25:OO:315:ALA:HB3	25:OO:351:SER:HA	1.90	0.52
24:PD:71:GLU:HB3	24:PD:98:ASP:HB3	1.91	0.52
24:PH:50:ASN:O	24:PH:64:ARG:NH1	2.43	0.52
28:Q0:640:SER:HG	28:Q0:676:TRP:HE1	1.57	0.52
28:Q0:3104:ARG:HA	28:Q0:3107:GLN:HG2	1.92	0.52
28:Q1:856:ARG:HE	28:Q1:860:LEU:HD11	1.74	0.52
25:QC:2:ARG:HH21	25:QC:46:ARG:HH22	1.58	0.52
24:QD:387:ILE:HD12	24:QD:390:ARG:HH22	1.74	0.52
25:RI:205:GLU:HA	25:RI:208:TYR:HB2	1.91	0.52
24:RL:76:ASP:OD2	25:RM:46:ARG:NH2	2.43	0.52
25:RO:139:LEU:HD12	25:RO:170:VAL:HG22	1.91	0.52
24:RP:3:GLU:HG3	24:RP:129:CYS:HB2	1.92	0.52
25:SE:28:HIS:HE1	25:SE:241:ARG:HD2	1.75	0.52
24:SL:224:TYR:HA	24:SL:227:LEU:HG	1.91	0.52
24:SN:311:LYS:N	24:SN:382:THR:OG1	2.43	0.52
24:TH:316:CYS:HA	24:TH:352:LYS:HB3	1.91	0.52
25:UO:239:CYS:SG	25:UO:248:ALA:N	2.82	0.52
25:VC:198:GLU:HA	25:VC:264:HIS:HB2	1.91	0.52
25:VI:405:GLU:HA	25:VI:408:PHE:HD2	1.75	0.52
24:VJ:101:ASN:HD22	25:VK:256:ASN:HD21	1.56	0.52
24:VJ:205:ASP:HB2	24:VJ:303:VAL:HG23	1.92	0.52
25:VM:207:LEU:HB3	25:VM:225:LEU:HD22	1.90	0.52
25:VM:309:ARG:NH1	25:VM:339:SER:O	2.42	0.52
35:W0:771:MET:O	35:W0:776:GLU:N	2.42	0.52
24:WF:100:ALA:HA	25:WG:252:LYS:HE3	1.92	0.52
24:WN:254:GLU:O	24:WN:258:ASN:CB	2.57	0.52
39:X1:283:ASP:HB2	39:X1:309:LEU:HD23	1.92	0.52
24:XB:121:ARG:HE	24:XB:124:LYS:HG3	1.74	0.52
25:XM:412:GLU:HA	25:XM:415:MET:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:XN:67:PHE:HB2	24:XN:92:LEU:HD13	1.92	0.52
40:Y1:148:LEU:HD22	40:Y1:153:ILE:HG23	1.92	0.52
40:Y3:401:VAL:HG13	40:Y3:411:VAL:HG21	1.91	0.52
40:Y5:453:GLN:OE1	40:Y5:456:ARG:NH2	2.43	0.52
40:Y7:79:VAL:HG23	40:Y7:154:LEU:HD23	1.92	0.52
25:YE:2:ARG:NH1	25:YE:249:ASP:OD2	2.43	0.52
24:ZB:70:LEU:HA	24:ZB:95:GLY:HA3	1.91	0.52
24:ZN:101:ASN:HA	24:ZN:144:GLY:H	1.74	0.52
24:ZN:336:LYS:O	24:ZN:339:ARG:NH2	2.42	0.52
2:1B:2060:LEU:HD12	2:1B:2069:ALA:HB1	1.92	0.52
2:1D:1362:ARG:O	2:1D:1363:ARG:NE	2.43	0.52
14:8A:91:HIS:HB3	24:VP:130:THR:HG22	1.92	0.52
15:9A:1693:ALA:HA	15:9A:1783:LEU:HA	1.92	0.52
18:C1:1480:LEU:HA	18:C1:1483:TRP:HE3	1.74	0.52
18:C3:40:LEU:HD21	18:C3:132:LEU:HD12	1.92	0.52
18:C3:121:LEU:HD21	19:D3:51:LEU:HB2	1.92	0.52
20:E2:167:PRO:O	24:UB:390:ARG:NH2	2.40	0.52
19:G2:180:GLU:OE1	19:G2:183:LEU:N	2.42	0.52
19:G2:305:SER:HB3	19:G2:310:ARG:HH11	1.75	0.52
19:H3:55:PRO:HA	19:H3:58:GLN:HE21	1.75	0.52
19:I0:242:ASP:N	19:I0:242:ASP:OD1	2.41	0.52
19:J3:112:ARG:O	19:J3:155:HIS:NE2	2.41	0.52
19:L1:69:ALA:O	19:L1:113:HIS:NE2	2.43	0.52
19:L3:11:GLU:OE1	19:L3:15:LYS:NZ	2.43	0.52
25:NE:68:LEU:HD23	25:NE:96:GLY:H	1.75	0.52
25:NG:8:GLN:HE21	25:NG:14:ASN:HA	1.75	0.52
25:NI:205:GLU:OE2	24:NJ:329:ASN:ND2	2.33	0.52
25:NO:67:ASP:OD2	25:NO:72:THR:OG1	2.27	0.52
24:OH:119:LEU:HD21	24:OH:156:ARG:HB3	1.91	0.52
25:PG:294:TRP:HE1	25:PG:330:MET:HE1	1.75	0.52
25:PQ:54:ALA:HB3	25:PQ:58:ARG:HB3	1.92	0.52
28:Q0:883:ASP:OD2	28:Q0:887:LYS:NZ	2.43	0.52
28:Q1:1329:LEU:O	28:Q1:1367:LYS:NZ	2.41	0.52
25:QK:68:LEU:HD12	25:QK:97:ALA:HB2	1.90	0.52
24:SF:9:ILE:HG12	24:SF:68:LEU:HD21	1.92	0.52
25:SK:248:ALA:HA	25:SK:252:LYS:HG2	1.92	0.52
24:SN:223:THR:HG23	24:SN:225:THR:H	1.75	0.52
24:SP:105:ARG:HA	24:SP:109:THR:HG22	1.91	0.52
25:TC:260:PHE:HB2	25:TC:263:LEU:HD12	1.92	0.52
25:TK:19:LYS:HA	25:TK:22:GLU:HB2	1.91	0.52
24:TP:217:LEU:HD21	24:TP:275:ILE:HG13	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:UN:248:LEU:HB3	24:UN:355:ILE:H	1.75	0.52
25:VE:135:VAL:HG21	25:VE:152:ILE:HD11	1.91	0.52
25:VE:252:LYS:O	25:VE:256:ASN:ND2	2.43	0.52
25:VG:375:GLN:NE2	25:VG:426:GLN:OE1	2.42	0.52
25:VI:31:ASP:OD1	25:VI:35:THR:N	2.41	0.52
25:WE:315:ALA:N	25:WE:350:LYS:O	2.42	0.52
25:WO:238:CYS:SG	25:WO:318:ARG:NE	2.82	0.52
39:X0:276:ALA:HB3	39:X0:279:LEU:HD22	1.91	0.52
39:X2:928:THR:HA	39:X2:948:GLN:HA	1.91	0.52
39:X3:119:VAL:O	39:X3:122:ASN:ND2	2.39	0.52
24:XJ:2:ARG:HB3	24:XJ:242:LEU:HD23	1.92	0.52
24:XN:217:LEU:HD21	24:XN:368:LEU:HD23	1.92	0.52
40:Y0:241:LYS:NZ	40:Y0:264:GLU:OE2	2.43	0.52
25:YC:2:ARG:HB3	25:YC:131:GLN:HB2	1.92	0.52
24:YD:264:ARG:NH2	24:YD:424:ASP:O	2.43	0.52
25:YO:407:GLU:HA	25:YO:410:GLU:HG3	1.91	0.52
41:Z1:205:ASP:HB3	41:Z1:212:ASP:HB3	1.91	0.52
25:ZG:263:LEU:HD11	25:ZG:421:GLU:HG3	1.92	0.52
2:1A:1974:ARG:HH22	2:1A:2076:ARG:HH12	1.58	0.52
2:1A:2012:VAL:HB	2:1A:2112:VAL:HB	1.91	0.52
2:1A:2114:CYS:HB3	2:1A:2118:LEU:HD11	1.90	0.52
4:2A:280:LYS:HZ1	25:OQ:194:GLU:HB2	1.75	0.52
14:8A:27:GLY:HA3	24:YP:221:ARG:HB2	1.91	0.52
19:D1:402:ARG:HH21	19:D1:405:LYS:HE2	1.75	0.52
19:D7:354:SER:HB2	19:D7:396:LEU:HD21	1.91	0.52
20:E3:387:ASP:O	24:VN:308:ARG:NH2	2.43	0.52
19:G4:239:HIS:HB2	19:G4:243:LEU:HD12	1.92	0.52
19:H0:365:ARG:HG2	19:H0:403:ALA:HB1	1.92	0.52
19:H1:310:ARG:NH1	19:H1:346:GLU:OE1	2.42	0.52
19:H2:283:PRO:O	19:H2:287:GLN:NE2	2.43	0.52
19:H6:364:GLY:O	19:H6:370:HIS:NE2	2.41	0.52
19:H7:224:LYS:HA	19:H7:227:ARG:HG2	1.92	0.52
19:J0:298:LEU:HB3	19:J0:317:LEU:HD11	1.92	0.52
19:J2:24:VAL:HA	19:J2:27:MET:HG2	1.92	0.52
19:J2:118:ALA:HB2	19:J2:155:HIS:HD2	1.75	0.52
19:J3:264:ASP:HB3	19:J3:267:VAL:HG22	1.91	0.52
19:K2:324:SER:HB3	19:K2:327:LEU:HG	1.92	0.52
25:NC:204:ASN:HA	25:NC:207:LEU:HD12	1.90	0.52
24:NL:65:CYS:SG	24:NL:66:ILE:N	2.83	0.52
24:OH:305:CYS:HB2	24:OH:387:ILE:HD11	1.91	0.52
25:OM:22:GLU:HG2	25:OM:81:TYR:HB2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:OP:76:ASP:HA	24:OP:79:ARG:HD3	1.91	0.52
25:PM:58:ARG:HH21	25:QM:281:TYR:HE1	1.56	0.52
25:PO:309:ARG:NH1	25:PO:339:SER:O	2.43	0.52
25:PQ:164:MET:HB3	25:PQ:197:ASP:H	1.75	0.52
28:Q0:2470:PRO:HB2	28:Q0:2526:LEU:HG	1.92	0.52
28:Q1:1073:MET:HE2	28:Q1:1155:ARG:HD3	1.91	0.52
25:QI:330:MET:HB3	25:QI:349:VAL:HG21	1.90	0.52
25:QM:290:THR:HG21	25:QM:329:GLN:HB3	1.90	0.52
24:RD:109:THR:HG21	24:RD:411:GLU:HB2	1.92	0.52
25:RK:311:LEU:HD23	25:RK:342:VAL:HG21	1.91	0.52
44:RL:501:GTP:O3G	25:RM:252:LYS:NZ	2.43	0.52
25:RM:190:HIS:CD2	25:RM:414:ASN:HB2	2.45	0.52
30:S3:112:GLY:HA3	24:VB:2:ARG:HH12	1.74	0.52
25:SC:113:ILE:HG13	25:SC:150:LEU:HD22	1.91	0.52
25:SI:306:ARG:HG3	25:SI:340:TYR:HE2	1.74	0.52
24:SL:175:PRO:HD3	24:SL:390:ARG:NH1	2.25	0.52
25:SM:209:ASP:OD1	25:SM:213:ARG:NH2	2.42	0.52
24:SN:71:GLU:HB2	24:SN:98:ASP:HB3	1.92	0.52
25:TC:314:SER:HB3	25:TC:368:ILE:HB	1.92	0.52
24:TF:77:GLU:HA	24:TF:80:THR:HG22	1.92	0.52
24:TN:194:LEU:O	24:TN:198:THR:OG1	2.26	0.52
25:UC:130:LEU:HB2	25:UC:162:ARG:HE	1.75	0.52
24:UF:116:ASP:OD1	24:UF:116:ASP:N	2.43	0.52
24:UP:8:HIS:HD2	24:UP:138:PHE:HB2	1.75	0.52
24:UP:244:PHE:HB2	24:UP:356:ASN:HD21	1.74	0.52
25:VK:221:THR:HG23	25:VK:223:GLY:H	1.75	0.52
24:VP:71:GLU:HB2	24:VP:98:ASP:HB3	1.91	0.52
25:WE:113:ILE:HA	25:WE:116:VAL:HG22	1.92	0.52
25:WG:8:GLN:HG2	25:WG:17:GLY:HA3	1.92	0.52
24:WJ:76:ASP:OD1	25:WK:46:ARG:NH2	2.42	0.52
24:XF:101:ASN:HD22	25:XG:256:ASN:HD21	1.56	0.52
25:XG:318:ARG:HE	25:XG:358:PRO:HD3	1.75	0.52
24:XH:2:ARG:HG2	24:XH:51:THR:HG22	1.92	0.52
24:XN:222:PRO:HG2	25:XO:324:LYS:HE2	1.92	0.52
40:Y1:365:LEU:HD21	40:Y1:381:VAL:HG21	1.91	0.52
40:Y6:401:VAL:HG21	40:Y6:432:LEU:HD13	1.92	0.52
24:YD:178:SER:OG	24:YD:180:ALA:O	2.28	0.52
24:YF:73:THR:OG1	25:YG:247:ASN:ND2	2.43	0.52
24:YF:273:ALA:HB3	24:YF:375:VAL:H	1.75	0.52
24:YH:65:CYS:SG	24:YH:66:ILE:N	2.83	0.52
41:Z3:95:VAL:HG22	41:Z3:105:ILE:HG13	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:ZC:396:HIS:HA	25:ZC:399:THR:HG22	1.91	0.52
25:ZI:25:SER:HB2	25:ZI:30:ILE:HB	1.91	0.52
24:ZN:258:ASN:HB3	24:ZN:259:LEU:HD12	1.92	0.52
24:ZP:93:ILE:HD11	24:ZP:121:ARG:HG2	1.92	0.52
24:ZP:229:ARG:HD3	24:ZP:363:VAL:HG11	1.92	0.52
2:1B:2057:THR:HA	2:1B:2094:LEU:O	2.10	0.52
4:2A:265:VAL:HG12	25:PQ:337:ASN:HB3	1.92	0.52
4:2A:546:ASN:HA	4:2A:687:PRO:HA	1.90	0.52
13:7I:20:GLU:HA	13:7I:38:LYS:HA	1.91	0.52
16:A3:62:SER:OG	24:XD:112:LYS:NZ	2.42	0.52
18:C0:1908:GLU:HA	18:C0:1911:VAL:HB	1.92	0.52
19:D6:219:ILE:O	19:D6:221:GLN:NE2	2.32	0.52
20:E0:169:LEU:O	24:UJ:393:HIS:NE2	2.35	0.52
19:G0:359:THR:HA	19:G0:362:GLN:HE21	1.75	0.52
19:G3:108:ARG:NH2	32:T1:594:PRO:O	2.40	0.52
19:G3:287:GLN:HA	19:G3:290:VAL:HG22	1.92	0.52
19:K0:288:LEU:O	19:K0:292:ASN:ND2	2.42	0.52
19:K1:287:GLN:HA	19:K1:290:VAL:HG22	1.91	0.52
25:NE:177:ASP:OD1	25:NE:178:THR:N	2.43	0.52
24:NJ:167:LEU:HG	24:NJ:200:VAL:HB	1.92	0.52
25:NK:21:TRP:HA	25:NK:24:VAL:HG12	1.91	0.52
25:NM:2:ARG:HB2	25:NM:131:GLN:HB2	1.92	0.52
24:NN:259:LEU:HD23	24:NN:268:MET:HG2	1.92	0.52
24:OF:217:LEU:HG	24:OF:275:ILE:HG22	1.91	0.52
24:OJ:180:ALA:HB3	24:OJ:183:GLU:HG3	1.91	0.52
25:OO:236:ILE:HD12	25:OO:368:ILE:HD11	1.91	0.52
24:PF:399:TYR:O	24:PF:402:ARG:NH2	2.43	0.52
25:PM:237:THR:OG1	25:PM:241:ARG:NH2	2.36	0.52
25:PQ:171:PRO:O	25:PQ:380:ARG:NH2	2.43	0.52
28:Q0:870:ASP:OD2	28:Q0:873:ARG:NH1	2.42	0.52
24:QD:162:GLY:HA2	33:U0:68:ARG:HH22	1.75	0.52
25:QE:179:VAL:HG23	24:QF:352:LYS:HG2	1.92	0.52
25:QO:19:LYS:NZ	25:QO:223:GLY:O	2.43	0.52
24:QP:305:CYS:HB3	24:QP:387:ILE:HD11	1.92	0.52
24:RD:91:GLN:HG3	24:RD:121:ARG:HH12	1.75	0.52
25:SC:2:ARG:HB3	25:SC:131:GLN:HB2	1.91	0.52
24:SD:25:CYS:HB2	24:SD:30:ILE:HB	1.92	0.52
25:SG:299:MET:HG3	25:SG:305:PRO:HG3	1.92	0.52
25:SM:139:LEU:HD12	25:SM:170:VAL:HG12	1.90	0.52
25:SO:282:ARG:NH2	25:SO:292:GLN:OE1	2.43	0.52
25:TC:170:VAL:HG22	25:TC:203:ASP:HB3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:TI:11:GLN:NE2	24:TJ:249:ASN:OD1	2.43	0.52
24:TL:3:GLU:HG3	24:TL:129:CYS:HB2	1.91	0.52
33:U0:41:PHE:O	33:U0:66:GLN:NE2	2.43	0.52
24:UN:31:GLN:HG3	24:UN:37:PRO:HD3	1.92	0.52
24:VD:288:VAL:HG13	24:VD:319:TYR:HE2	1.75	0.52
24:WB:288:VAL:HG13	24:WB:319:TYR:HE2	1.74	0.52
24:WD:108:TYR:O	24:WD:112:LYS:NZ	2.43	0.52
24:WH:119:LEU:HD11	24:WH:156:ARG:HB3	1.92	0.52
25:WK:48:ASN:O	25:WK:62:ARG:NH2	2.40	0.52
25:WK:69:GLU:OE2	24:WL:2:ARG:NH2	2.43	0.52
25:WO:342:VAL:HG12	25:WO:345:ILE:H	1.74	0.52
39:X3:633:PHE:HE1	39:X3:673:VAL:HG21	1.75	0.52
25:XK:226:ASN:OD1	46:XK:501:GDP:N1	2.40	0.52
25:XM:2:ARG:HB3	25:XM:131:GLN:HB2	1.91	0.52
24:XN:264:ARG:NH1	24:XN:431:ASP:OD1	2.43	0.52
24:YB:203:MET:HG3	24:YB:303:VAL:HG21	1.92	0.52
24:YD:183:GLU:HG2	24:YD:184:PRO:HD3	1.92	0.52
24:YD:387:ILE:HA	24:YD:390:ARG:HE	1.75	0.52
25:YE:17:GLY:HA2	25:YE:20:PHE:HB3	1.92	0.52
25:YE:33:THR:O	25:YE:58:ARG:NE	2.40	0.52
25:YE:45:GLU:HG2	25:YE:46:ARG:HG2	1.91	0.52
25:YM:25:SER:HB2	25:YM:30:ILE:HB	1.92	0.52
25:YM:64:ILE:HA	25:YM:89:ASN:HB3	1.91	0.52
25:ZG:176:SER:OG	25:ZG:178:THR:O	2.22	0.52
2:1C:1610:VAL:HG12	2:1C:1684:ARG:HE	1.76	0.51
2:1D:2175:PRO:HD3	2:1D:2262:ASP:HB2	1.92	0.51
18:C0:1769:ARG:NH2	18:C0:1813:PRO:O	2.43	0.51
18:C1:1647:GLN:HA	18:C1:1650:ILE:HG12	1.92	0.51
18:C2:1022:ALA:HB1	18:C2:1084:LYS:HD3	1.92	0.51
18:C2:1185:SER:O	18:C2:1189:GLN:NE2	2.39	0.51
19:D3:265:GLU:OE1	19:D3:309:ASN:ND2	2.40	0.51
20:E1:375:GLU:HA	20:E1:378:LEU:HG	1.92	0.51
19:G1:401:ARG:HH21	19:G1:404:LEU:HD21	1.75	0.51
19:H7:77:GLU:HA	19:H7:80:VAL:HG22	1.92	0.51
19:J2:301:TYR:O	19:J2:305:SER:HB2	2.09	0.51
19:K1:135:GLU:HA	19:K1:171:LEU:HD21	1.92	0.51
19:K2:301:TYR:O	19:K2:305:SER:HB2	2.10	0.51
19:L2:93:SER:OG	19:L2:94:GLU:OE1	2.27	0.51
22:M0:787:TYR:HB3	28:Q0:1229:LEU:HD22	1.92	0.51
22:M0:830:GLU:HB3	28:Q0:622:GLN:HG2	1.91	0.51
25:NI:180:VAL:HG13	25:NI:184:ASN:HD21	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:OM:260:PHE:HB2	25:OM:263:LEU:HD13	1.91	0.51
25:PK:99:ASN:ND2	46:PK:501:GDP:O1A	2.41	0.51
24:PL:273:ALA:HB2	24:PL:295:ALA:HB2	1.93	0.51
25:PM:165:LEU:HD21	25:PM:250:LEU:HD11	1.92	0.51
24:PN:119:LEU:HD11	24:PN:156:ARG:HB3	1.92	0.51
24:PP:319:TYR:HB2	24:PP:355:ILE:HG22	1.92	0.51
28:Q0:83:GLN:OE1	28:Q0:87:GLN:NE2	2.43	0.51
24:QF:3:GLU:HA	24:QF:51:THR:HA	1.92	0.51
25:QG:207:LEU:HD11	25:QG:229:ILE:HD11	1.91	0.51
24:QH:262:TYR:HB2	24:QH:265:ILE:HG22	1.90	0.51
25:QK:7:ILE:O	25:QK:8:GLN:NE2	2.43	0.51
25:RI:210:ILE:HD13	25:RI:298:ASN:HA	1.91	0.51
24:SF:127:ASP:OD2	24:TF:293:ASN:ND2	2.39	0.51
25:SI:33:THR:O	25:SI:58:ARG:NH2	2.43	0.51
25:TC:113:ILE:HA	25:TC:116:VAL:HG22	1.91	0.51
25:TK:334:GLN:HE22	25:TK:347:ASN:HA	1.76	0.51
25:TO:52:ASN:OD1	25:TO:62:ARG:NH2	2.42	0.51
33:U0:124:LYS:NZ	33:U0:150:GLN:OE1	2.43	0.51
33:U1:6:SER:HA	33:U1:35:ILE:HD12	1.91	0.51
24:UF:268:MET:SD	24:UF:380:ASN:ND2	2.80	0.51
24:UH:79:ARG:NH2	24:UH:92:LEU:O	2.43	0.51
25:UI:173:PRO:HB3	25:UI:380:ARG:HH11	1.74	0.51
24:UN:396:ASP:OD1	24:UN:422:ARG:NE	2.43	0.51
24:VJ:328:VAL:HG11	24:VJ:355:ILE:HD11	1.92	0.51
25:WA:113:ILE:HA	25:WA:116:VAL:HG22	1.91	0.51
24:WH:320:ARG:O	24:WH:373:ARG:HA	2.10	0.51
39:X2:599:GLY:H	39:X2:670:TYR:HE2	1.59	0.51
24:XF:276:ILE:HD12	24:XF:281:ALA:HA	1.92	0.51
40:Y0:132:ILE:HG21	40:Y0:160:VAL:HG11	1.91	0.51
40:Y1:425:ILE:HA	40:Y1:428:LEU:HB3	1.92	0.51
40:Y3:445:SER:HA	40:Y3:448:ASN:HB2	1.92	0.51
24:ZN:278:ALA:HA	24:ZN:369:ALA:HB2	1.91	0.51
24:ZP:318:MET:HB2	24:ZP:376:CYS:HB3	1.92	0.51
24:ZP:387:ILE:HA	24:ZP:390:ARG:HE	1.75	0.51
2:1A:1609:VAL:HG13	2:1A:1686:GLY:H	1.75	0.51
2:1C:2092:LEU:HD23	2:1C:2241:LEU:HD21	1.92	0.51
17:B0:650:LYS:HD3	17:B0:651:ARG:HH21	1.75	0.51
17:B2:374:ARG:NH2	24:SF:382:THR:O	2.42	0.51
18:C0:426:ARG:NH1	39:X0:277:SER:O	2.44	0.51
18:C1:1346:LEU:O	18:C1:1350:ILE:HG12	2.09	0.51
18:C2:585:GLU:O	18:C2:718:LYS:NZ	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:C3:1378:THR:HG22	18:C3:1455:LEU:HD13	1.91	0.51
19:G3:227:ARG:HG2	19:G3:267:VAL:HB	1.91	0.51
19:H1:21:VAL:HG12	19:H1:49:LEU:HD21	1.93	0.51
19:H1:248:VAL:HG11	19:H1:285:LEU:HD21	1.93	0.51
19:H1:273:THR:HA	19:H1:276:ARG:HG2	1.93	0.51
19:H4:287:GLN:HA	19:H4:290:VAL:HG22	1.92	0.51
19:H7:361:GLY:HA3	19:H7:400:CYS:HB3	1.92	0.51
19:H7:386:LEU:HG	19:H7:397:LYS:HE3	1.93	0.51
19:J1:220:ASN:O	19:J1:226:LYS:NZ	2.34	0.51
19:K0:332:ILE:HG23	19:K0:337:LEU:HD11	1.91	0.51
19:K1:137:PHE:O	19:K1:142:LYS:NZ	2.44	0.51
19:K1:143:GLU:OE2	19:K1:182:SER:OG	2.28	0.51
19:L0:347:GLU:HA	19:L0:353:LYS:HD2	1.91	0.51
19:L2:227:ARG:HE	19:L2:266:PHE:HB2	1.75	0.51
23:N2:18:LEU:HD13	23:N3:56:LEU:HD12	1.92	0.51
25:NM:204:ASN:OD1	46:NM:501:GDP:O2'	2.28	0.51
25:NO:121:ARG:HH12	25:NO:158:GLU:HG3	1.76	0.51
25:NO:149:THR:O	25:NO:191:GLN:NE2	2.43	0.51
24:OH:50:ASN:O	24:OH:64:ARG:NH1	2.43	0.51
24:OJ:136:LEU:HD13	24:OJ:235:ILE:HD11	1.91	0.51
24:OJ:326:LYS:O	24:OJ:329:ASN:N	2.43	0.51
24:PD:305:CYS:HB3	24:PD:387:ILE:HD11	1.91	0.51
24:PH:194:LEU:O	24:PH:198:THR:OG1	2.24	0.51
25:PQ:31:ASP:OD1	25:PQ:35:THR:N	2.43	0.51
28:Q1:3121:LYS:HE2	28:Q1:3132:PRO:HG3	1.93	0.51
25:QG:375:GLN:O	25:QG:379:LYS:N	2.31	0.51
25:QK:405:GLU:HA	25:QK:408:PHE:HD2	1.75	0.51
25:QQ:8:GLN:HB2	25:QQ:65:LEU:HD23	1.91	0.51
25:RC:68:LEU:HB3	25:RC:96:GLY:HA2	1.93	0.51
25:RC:301:CYS:SG	25:RC:302:ALA:N	2.83	0.51
24:RF:223:THR:OG1	24:RF:224:TYR:N	2.42	0.51
25:SO:68:LEU:HB2	25:SO:143:THR:HG23	1.91	0.51
32:T0:575:ARG:NH1	32:T0:576:VAL:O	2.42	0.51
24:TJ:2:ARG:NH1	24:TJ:242:LEU:O	2.43	0.51
25:TK:215:LEU:HB3	25:TK:217:LEU:HD13	1.91	0.51
24:TP:11:GLN:NE2	24:TP:15:GLN:OE1	2.43	0.51
24:UD:200:VAL:HG11	24:UD:255:PHE:HE2	1.75	0.51
24:UJ:209:ILE:HG23	24:UJ:230:LEU:HD11	1.92	0.51
24:UL:6:SER:O	24:UL:65:CYS:HA	2.09	0.51
24:VF:18:ASN:HD21	24:VF:78:VAL:HG22	1.75	0.51
25:VK:11:GLN:NE2	24:VL:247:ALA:O	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:VO:334:GLN:HE21	25:VO:349:VAL:HG13	1.75	0.51
24:VP:250:VAL:HA	24:VP:254:GLU:HG2	1.92	0.51
39:X3:96:VAL:HG23	39:X3:118:ASP:HB3	1.91	0.51
24:XN:207:GLU:HA	24:XN:210:TYR:HD2	1.75	0.51
40:Y7:93:LEU:HD21	40:Y7:108:LYS:HG3	1.92	0.51
25:YC:114:ASP:OD1	25:YC:114:ASP:N	2.43	0.51
24:YD:309:HIS:ND1	24:YD:386:GLU:OE2	2.42	0.51
41:Z0:16:TYR:HA	41:Z0:40:PRO:HA	1.91	0.51
24:ZJ:265:ILE:HG22	24:ZJ:380:ASN:HD21	1.74	0.51
24:ZJ:268:MET:HG3	24:ZJ:380:ASN:HB2	1.92	0.51
24:ZL:199:ASP:OD2	24:ZL:256:GLN:NE2	2.43	0.51
25:ZM:113:ILE:HA	25:ZM:116:VAL:HG12	1.92	0.51
2:1A:1363:ARG:HG3	2:1A:1403:LEU:HB3	1.92	0.51
2:1A:1924:ARG:O	2:1A:1926:ARG:NH1	2.43	0.51
2:1B:854:ALA:HB3	2:1B:866:THR:O	2.11	0.51
2:1B:1550:SER:O	2:1B:1970:ARG:NH1	2.43	0.51
4:2B:283:MET:HA	24:OH:409:VAL:HG11	1.91	0.51
18:C0:1758:PRO:HA	18:C0:1764:PRO:HA	1.90	0.51
19:D4:402:ARG:HA	19:D4:405:LYS:HG2	1.91	0.51
19:D6:136:GLU:O	19:D6:142:LYS:NZ	2.43	0.51
19:D7:17:ARG:HD3	19:D7:49:LEU:HD22	1.93	0.51
20:E2:381:THR:HG21	20:E2:386:LEU:HB2	1.92	0.51
19:G1:311:LEU:HD12	19:G1:352:LEU:HD23	1.92	0.51
19:G3:269:LYS:HD2	19:G3:309:ASN:HD22	1.75	0.51
19:G4:235:GLN:HA	19:G4:238:LYS:HZ3	1.74	0.51
19:I0:114:SER:HB3	19:I0:117:LEU:HD23	1.92	0.51
19:K1:185:ARG:HD3	19:K1:225:LEU:HD23	1.92	0.51
19:K1:241:VAL:HG12	19:K1:281:HIS:HB3	1.92	0.51
19:K2:160:ALA:HB1	19:K2:194:ILE:HG13	1.92	0.51
19:K3:188:ALA:HB3	19:K3:228:GLN:HE22	1.76	0.51
19:L0:69:ALA:O	19:L0:113:HIS:NE2	2.43	0.51
19:L3:138:ASP:HB3	19:L3:141:VAL:HG22	1.91	0.51
25:NK:207:LEU:HD11	25:NK:229:ILE:HD11	1.93	0.51
25:OI:291:GLN:NE2	25:OI:292:GLN:OE1	2.44	0.51
25:OO:20:PHE:HA	25:OO:230:SER:HB2	1.92	0.51
24:PF:136:LEU:HD13	24:PF:235:ILE:HD11	1.92	0.51
24:PH:251:ASP:OD1	24:PH:252:ILE:N	2.44	0.51
24:PH:423:GLU:HA	24:PH:426:ALA:HB3	1.92	0.51
24:PL:79:ARG:NH2	24:PL:92:LEU:O	2.43	0.51
24:PL:405:VAL:HG13	24:PL:418:PHE:HE1	1.76	0.51
28:Q0:916:LEU:HB2	28:Q0:924:THR:HG23	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Q0:1140:ARG:NH1	28:Q0:2067:GLN:O	2.42	0.51
28:Q0:2959:MET:HE1	29:R0:139:ARG:HH21	1.76	0.51
25:QI:101:TRP:CZ3	25:QI:187:LEU:HB3	2.46	0.51
29:R1:1825:ALA:HA	29:R1:1832:GLU:HA	1.92	0.51
24:RF:50:ASN:O	24:RF:64:ARG:NH1	2.42	0.51
25:RG:263:LEU:O	25:RG:370:ASN:ND2	2.44	0.51
25:RI:397:TRP:HZ2	24:RJ:260:VAL:HG23	1.75	0.51
24:RN:102:ASN:HD22	24:RN:105:ARG:HD3	1.75	0.51
25:RO:290:THR:HA	25:RO:293:MET:HG3	1.91	0.51
24:RP:154:LEU:HD22	24:RP:198:THR:HG22	1.92	0.51
24:RP:319:TYR:HB3	24:RP:323:VAL:HG21	1.93	0.51
24:SB:71:GLU:HB2	24:SB:98:ASP:HB3	1.91	0.51
25:SC:198:GLU:HB2	25:SC:266:PHE:HE2	1.76	0.51
24:SJ:127:ASP:OD2	24:TJ:293:ASN:ND2	2.42	0.51
24:SN:127:ASP:OD2	24:TN:293:ASN:ND2	2.43	0.51
24:UD:183:GLU:OE1	25:UE:347:ASN:ND2	2.44	0.51
24:UF:406:HIS:HA	24:UF:409:VAL:HG12	1.93	0.51
25:UG:248:ALA:HA	25:UG:252:LYS:HG3	1.92	0.51
25:UG:342:VAL:HG12	25:UG:348:ASN:HD21	1.76	0.51
24:UN:316:CYS:HA	24:UN:352:LYS:HB3	1.92	0.51
24:VJ:71:GLU:HB2	24:VJ:98:ASP:HB3	1.93	0.51
24:VL:9:ILE:HB	24:VL:139:ASN:HB3	1.91	0.51
39:X1:112:ARG:HE	39:X1:138:SER:HA	1.75	0.51
39:X1:238:SER:O	39:X1:240:ASN:ND2	2.44	0.51
39:X2:177:ARG:HA	39:X2:198:LEU:HD12	1.91	0.51
39:X2:255:ARG:HA	39:X2:279:LEU:HA	1.91	0.51
25:XG:236:ILE:HD12	25:XG:368:ILE:HD11	1.91	0.51
25:XK:161:ASP:OD2	25:XK:162:ARG:NH2	2.36	0.51
25:XK:406:MET:O	25:XK:409:THR:N	2.42	0.51
40:Y1:129:GLN:HA	40:Y1:129:GLN:NE2	2.25	0.51
40:Y3:18:GLU:HA	40:Y3:21:ASN:HD22	1.74	0.51
40:Y4:66:ALA:HB3	40:Y4:77:ALA:HB3	1.92	0.51
25:YI:396:HIS:HA	25:YI:399:THR:HG22	1.91	0.51
41:Z3:200:ASN:ND2	41:Z3:336:THR:O	2.44	0.51
25:ZM:226:ASN:OD1	46:ZM:501:GDP:N1	2.41	0.51
25:ZO:289:LEU:HD22	25:ZO:363:MET:HG3	1.92	0.51
2:1B:1800:TYR:HD2	2:1B:1901:VAL:HG13	1.75	0.51
2:1B:2070:ARG:NH1	2:1B:2071:PRO:O	2.43	0.51
13:7K:20:GLU:HA	13:7K:38:LYS:HA	1.92	0.51
14:8C:59:TRP:O	25:XG:279:GLN:NE2	2.36	0.51
18:C0:684:PRO:HB2	18:C0:689:ARG:HH12	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:C2:1049:LYS:HB3	18:C2:1056:ILE:HD13	1.92	0.51
18:C3:246:ARG:HH12	18:C3:250:ALA:HB2	1.75	0.51
19:D1:203:GLN:HA	19:D1:206:VAL:HG22	1.93	0.51
21:F3:88:GLN:O	21:F3:111:LEU:HA	2.10	0.51
19:G1:65:LEU:HD11	19:G1:84:ILE:HD13	1.93	0.51
19:G2:180:GLU:HB3	19:G2:183:LEU:HB2	1.93	0.51
19:H0:251:GLU:O	19:H0:255:LYS:NZ	2.36	0.51
19:H4:251:GLU:O	19:H4:255:LYS:NZ	2.37	0.51
19:H5:77:GLU:HA	19:H5:80:VAL:HG12	1.92	0.51
19:H6:222:ASP:HB3	19:H6:225:LEU:HB2	1.92	0.51
19:I0:52:ASP:O	19:I0:58:GLN:NE2	2.44	0.51
19:J1:118:ALA:HB1	19:J1:159:LEU:HD21	1.92	0.51
19:K1:181:LEU:HB3	19:K1:185:ARG:HH12	1.75	0.51
19:L3:161:GLN:HA	19:L3:164:VAL:HG22	1.92	0.51
22:M0:957:TYR:HE2	22:M0:969:LEU:HD23	1.74	0.51
24:NF:50:ASN:O	24:NF:64:ARG:NH1	2.44	0.51
24:NH:274:PRO:HG3	24:NH:286:LEU:HD12	1.93	0.51
25:NK:245:GLN:HB3	25:NK:353:VAL:HG23	1.91	0.51
25:OE:139:LEU:HB3	25:OE:185:ALA:HA	1.90	0.51
25:OI:2:ARG:HB3	25:OI:131:GLN:HB2	1.92	0.51
24:OJ:67:PHE:HB2	24:OJ:92:LEU:HD22	1.92	0.51
24:OL:206:ASN:HD21	44:OL:501:GTP:N2	2.08	0.51
24:PF:384:ILE:HA	24:PF:387:ILE:HD12	1.92	0.51
25:PG:14:ASN:O	25:PG:18:ALA:N	2.42	0.51
24:PH:392:ASP:OD2	24:PH:422:ARG:NH1	2.43	0.51
25:PO:337:ASN:HB2	25:PO:340:TYR:HD2	1.75	0.51
25:PQ:272:PRO:HG3	25:PQ:364:SER:HA	1.92	0.51
28:Q1:2298:ARG:HH21	28:Q1:2366:LEU:HD11	1.74	0.51
24:QD:176:GLN:HB3	25:QE:331:LEU:HD11	1.93	0.51
24:QH:76:ASP:OD2	25:QI:46:ARG:NH2	2.44	0.51
25:QK:396:HIS:HA	25:QK:399:THR:HG22	1.91	0.51
25:QO:184:ASN:OD1	25:QO:398:TYR:OH	2.28	0.51
24:RF:2:ARG:HG3	24:RF:242:LEU:HG	1.93	0.51
30:S1:80:GLN:HG3	25:WI:19:LYS:HE2	1.91	0.51
25:SK:7:ILE:HD13	25:SK:151:LEU:HD21	1.93	0.51
25:SO:336:LYS:NZ	25:SO:337:ASN:OD1	2.41	0.51
24:TD:122:ILE:HG21	24:TD:157:LEU:HD21	1.93	0.51
25:TG:189:VAL:HA	25:TG:192:LEU:HB2	1.92	0.51
25:TI:100:ASN:ND2	25:TI:397:TRP:O	2.39	0.51
24:TL:66:ILE:HG22	24:TL:91:GLN:HB2	1.91	0.51
25:UE:237:THR:HG23	25:UE:241:ARG:HE	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:UP:65:CYS:SG	24:UP:66:ILE:N	2.84	0.51
25:VC:164:MET:HB3	25:VC:197:ASP:H	1.74	0.51
25:VK:135:VAL:HG21	25:VK:152:ILE:HD11	1.92	0.51
25:WC:211:CYS:HA	25:WC:215:LEU:HB2	1.92	0.51
25:WG:284:LEU:HD11	25:WG:362:LYS:HB3	1.92	0.51
39:X1:98:ARG:NH1	39:X1:118:ASP:OD1	2.42	0.51
24:XF:137:VAL:HG11	24:XF:154:LEU:HD11	1.91	0.51
25:XG:301:CYS:SG	25:XG:302:ALA:N	2.83	0.51
25:XM:391:ARG:NH2	24:XN:435:VAL:O	2.44	0.51
40:Y2:57:ASP:HA	40:Y2:420:THR:HG22	1.91	0.51
24:YB:288:VAL:HG13	24:YB:319:TYR:HE2	1.74	0.51
24:YD:135:PHE:HB2	24:YD:166:LYS:HD3	1.93	0.51
24:YJ:2:ARG:NE	24:YJ:242:LEU:O	2.42	0.51
25:YM:301:CYS:SG	25:YM:302:ALA:N	2.83	0.51
25:ZE:3:GLU:HG2	25:ZE:62:ARG:HH22	1.75	0.51
2:1B:2059:LEU:HD11	2:1B:2091:LEU:HB2	1.92	0.51
2:1C:1322:LEU:HD21	2:1C:1325:PHE:HB3	1.92	0.51
2:1C:1587:VAL:HG23	2:1C:1589:LYS:HG3	1.92	0.51
2:1C:1974:ARG:HH22	2:1C:2076:ARG:HH12	1.57	0.51
2:1C:1998:TYR:HA	2:1C:2001:VAL:HG12	1.93	0.51
2:1D:1998:TYR:HA	2:1D:2001:VAL:HG12	1.92	0.51
17:B0:562:GLU:OE2	25:RO:402:GLY:N	2.43	0.51
17:B1:416:ARG:O	17:B1:420:GLN:OE1	2.29	0.51
18:C3:1214:LYS:HA	18:C3:1217:LEU:HB2	1.93	0.51
19:D3:203:GLN:HA	19:D3:206:VAL:HG12	1.91	0.51
19:D4:324:SER:HB3	19:D4:327:LEU:HD13	1.91	0.51
19:D7:111:ALA:HB2	19:D7:121:VAL:HG21	1.92	0.51
20:E0:347:LEU:HD23	25:UK:106:TYR:HD2	1.74	0.51
21:F2:327:VAL:HA	21:F2:444:VAL:HA	1.93	0.51
19:G1:268:LYS:HB3	19:G1:301:TYR:CE1	2.46	0.51
19:H6:50:LEU:HD11	19:H6:65:LEU:HD11	1.92	0.51
19:H7:114:SER:OG	19:H7:116:GLU:OE1	2.28	0.51
22:M1:328:ARG:NH2	25:TI:157:GLU:OE2	2.44	0.51
23:N2:43:LEU:HD11	23:N2:88:LEU:HG	1.92	0.51
24:NJ:328:VAL:HG11	24:NJ:355:ILE:HD11	1.92	0.51
25:PC:405:GLU:HA	25:PC:408:PHE:HD1	1.76	0.51
25:PM:87:PRO:HA	25:PM:90:PHE:HD2	1.76	0.51
28:Q0:138:LYS:NZ	28:Q0:682:ASP:OD1	2.42	0.51
28:Q1:2319:THR:O	28:Q1:2696:ARG:NH2	2.44	0.51
25:QC:91:VAL:HG21	25:QC:116:VAL:HG12	1.93	0.51
24:QD:155:GLU:HG3	33:U0:91:PHE:HZ	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:QF:67:PHE:HB2	24:QF:92:LEU:HD23	1.93	0.51
24:QN:297:GLU:HG3	24:QN:299:ALA:H	1.75	0.51
25:QO:204:ASN:O	25:QO:208:TYR:N	2.41	0.51
25:SC:198:GLU:HA	25:SC:264:HIS:HB2	1.92	0.51
24:SD:219:ILE:HG23	24:SD:222:PRO:HG3	1.91	0.51
24:SJ:133:GLN:HE21	24:SJ:242:LEU:HD13	1.76	0.51
25:SK:391:ARG:NH2	24:SL:439:SER:OG	2.44	0.51
24:TF:265:ILE:HD11	24:TF:431:ASP:HB3	1.93	0.51
24:TH:136:LEU:HD22	24:TH:169:PHE:HE2	1.75	0.51
24:TL:70:LEU:HD12	24:TL:145:THR:HG22	1.92	0.51
25:TM:226:ASN:OD1	46:TM:502:GDP:N1	2.43	0.51
25:UC:257:LEU:O	25:UC:370:ASN:ND2	2.42	0.51
25:UE:109:GLY:HA2	25:UE:147:MET:HE2	1.91	0.51
25:UE:135:VAL:HG21	25:UE:152:ILE:HD11	1.92	0.51
25:UE:388:MET:HE1	25:UE:394:PHE:HD2	1.75	0.51
24:UH:105:ARG:HG2	24:UH:110:ILE:HG12	1.92	0.51
24:UJ:236:SER:HB2	24:UJ:243:ARG:HH22	1.75	0.51
25:VC:289:LEU:HD11	25:VC:363:MET:HG2	1.92	0.51
25:VI:135:VAL:HG21	25:VI:152:ILE:HD11	1.93	0.51
25:VK:191:GLN:O	25:VK:195:ASN:ND2	2.43	0.51
25:VK:257:LEU:HD21	25:VK:314:SER:HB2	1.92	0.51
24:VL:194:LEU:O	24:VL:198:THR:OG1	2.26	0.51
25:WA:20:PHE:HA	25:WA:230:SER:HB2	1.93	0.51
25:WG:375:GLN:HB2	25:WG:419:VAL:HG23	1.93	0.51
25:WM:7:ILE:HB	25:WM:135:VAL:HG12	1.92	0.51
24:WN:177:VAL:HG22	25:WO:331:LEU:HB2	1.92	0.51
24:XD:203:MET:HB3	24:XD:303:VAL:HG21	1.91	0.51
40:Y5:317:LYS:HD2	40:Y5:347:PRO:HG3	1.92	0.51
40:Y6:15:LYS:HD3	40:Y7:32:LEU:HD12	1.93	0.51
41:Z0:278:ARG:HD3	41:Z0:348:ARG:HH12	1.75	0.51
24:ZF:286:LEU:HD13	24:ZF:371:VAL:HG13	1.92	0.51
24:ZL:209:ILE:HG12	24:ZL:302:MET:HE3	1.92	0.51
2:1A:1899:ASP:OD1	2:1A:1899:ASP:N	2.44	0.51
2:1A:2452:ARG:HG3	18:C0:1210:ARG:HH22	1.75	0.51
2:1C:1324:GLY:O	2:1C:1327:HIS:NE2	2.44	0.51
16:A1:82:PRO:O	24:YL:214:ARG:NH2	2.43	0.51
18:C1:1175:TYR:OH	18:C1:1454:ARG:NH2	2.44	0.51
18:C1:1758:PRO:HA	18:C1:1764:PRO:HA	1.92	0.51
18:C2:622:LEU:HB2	18:C2:767:VAL:HG22	1.91	0.51
18:C2:882:GLN:OE1	39:X2:93:GLN:NE2	2.44	0.51
19:G3:228:GLN:NE2	32:T1:587:THR:O	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L0:15:LYS:NZ	25:UK:403:MET:O	2.36	0.51
19:L2:155:HIS:HB2	19:L2:159:LEU:HD12	1.93	0.51
19:L3:287:GLN:HA	19:L3:290:VAL:HG22	1.93	0.51
24:NB:192:HIS:ND1	24:NB:424:ASP:OD1	2.43	0.51
24:NF:236:SER:O	24:NF:243:ARG:NH2	2.43	0.51
25:NG:131:GLN:NE2	25:NG:249:ASP:OD2	2.44	0.51
25:NG:167:PHE:HZ	25:NG:236:ILE:HG13	1.75	0.51
24:NH:200:VAL:HG23	24:NH:256:GLN:HG3	1.92	0.51
24:NL:318:MET:HB2	24:NL:376:CYS:HB3	1.92	0.51
25:OM:44:LEU:HA	25:OM:47:ILE:HD11	1.93	0.51
25:OO:202:LEU:HD23	25:OO:229:ILE:HD12	1.93	0.51
25:OO:396:HIS:HA	25:OO:399:THR:HG22	1.93	0.51
25:PE:289:LEU:HD22	25:PE:363:MET:HG3	1.93	0.51
24:PF:11:GLN:NE2	25:PG:245:GLN:O	2.43	0.51
24:PJ:123:ARG:NH2	24:PJ:160:ASP:OD1	2.44	0.51
24:PJ:206:ASN:HD21	44:PJ:501:GTP:HN22	1.58	0.51
24:PJ:209:ILE:HD13	24:PJ:231:ILE:HD11	1.91	0.51
28:Q0:213:PRO:HG3	28:Q0:268:VAL:HG22	1.91	0.51
25:QE:4:ILE:HB	25:QE:50:TYR:HE1	1.74	0.51
25:QI:172:SER:OG	25:QI:205:GLU:OE2	2.29	0.51
25:QM:268:VAL:HG12	25:QM:368:ILE:HA	1.92	0.51
29:R0:11:LEU:HD12	29:R0:54:ALA:HB3	1.93	0.51
29:R0:159:HIS:O	29:R0:164:ARG:NH1	2.44	0.51
24:RF:195:LEU:HD21	24:RF:428:LEU:HD12	1.93	0.51
25:RO:271:THR:O	25:RO:292:GLN:NE2	2.44	0.51
24:RP:247:ALA:HB3	24:RP:355:ILE:HB	1.92	0.51
25:SI:7:ILE:HB	25:SI:135:VAL:HG12	1.93	0.51
24:SL:316:CYS:HA	24:SL:352:LYS:HB3	1.93	0.51
32:T0:529:ALA:HB1	32:T0:543:ARG:HH12	1.75	0.51
24:TD:288:VAL:HG13	24:TD:319:TYR:HE2	1.75	0.51
25:TE:334:GLN:HE22	25:TE:347:ASN:HA	1.76	0.51
24:TF:265:ILE:HG23	24:TF:432:PHE:HE1	1.75	0.51
25:TO:12:CYS:SG	25:TO:13:GLY:N	2.83	0.51
25:UM:257:LEU:HD11	25:UM:314:SER:HB2	1.92	0.51
24:VN:53:PHE:HB3	24:VN:61:HIS:HB3	1.92	0.51
24:WB:28:HIS:NE2	24:WB:48:ALA:O	2.44	0.51
24:WB:273:ALA:HB3	24:WB:375:VAL:H	1.76	0.51
24:WD:73:THR:OG1	25:WE:247:ASN:OD1	2.22	0.51
24:WF:171:VAL:HA	24:WF:204:LEU:HB2	1.91	0.51
25:WM:396:HIS:HA	25:WM:399:THR:HG22	1.93	0.51
24:WN:192:HIS:NE2	24:WN:420:GLU:OE1	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:XA:184:ASN:OD1	25:XA:398:TYR:OH	2.28	0.51
25:XK:176:SER:OG	24:XL:351:PHE:O	2.22	0.51
25:XK:221:THR:HG23	25:XK:223:GLY:H	1.74	0.51
40:Y2:32:LEU:HD11	40:Y3:15:LYS:HE3	1.92	0.51
40:Y4:412:MET:HG3	40:Y4:436:GLN:HG3	1.93	0.51
40:Y5:399:GLU:OE1	40:Y5:402:ARG:NH1	2.43	0.51
40:Y6:361:GLY:HA3	40:Y6:365:LEU:HD23	1.91	0.51
24:YD:269:LEU:HD21	24:YD:384:ILE:HG12	1.93	0.51
41:Z1:260:LYS:HA	41:Z1:266:LEU:HD11	1.91	0.51
24:ZJ:185:TYR:HE1	24:ZJ:398:MET:HB3	1.76	0.51
4:2A:293:VAL:HG13	4:2A:296:ALA:HA	1.92	0.51
17:B0:747:ARG:HH11	25:QI:401:GLU:HG3	1.75	0.51
18:C2:121:LEU:HD11	19:D1:48:PRO:HA	1.93	0.51
19:D5:38:GLN:OE1	19:D5:39:GLN:NE2	2.43	0.51
21:F3:170:CYS:SG	21:F3:171:ASP:N	2.84	0.51
19:G4:217:LEU:HB2	19:G4:229:VAL:HG21	1.92	0.51
19:H5:92:LEU:HD21	19:H5:103:ALA:HB3	1.92	0.51
19:J1:298:LEU:HD11	19:J1:317:LEU:HD21	1.92	0.51
19:J2:48:PRO:HB3	19:J3:48:PRO:HB3	1.93	0.51
19:L2:269:LYS:HG2	19:L2:312:PRO:HG2	1.91	0.51
25:NK:248:ALA:HA	25:NK:252:LYS:HD3	1.92	0.51
25:NO:282:ARG:HH12	25:NO:284:LEU:HD22	1.76	0.51
25:OE:256:ASN:OD1	25:OE:257:LEU:N	2.44	0.51
25:OK:372:THR:HA	25:OK:422:TYR:HD2	1.76	0.51
25:PO:253:LEU:HD21	25:PO:316:LEU:HD21	1.93	0.51
25:PO:267:MET:HB2	25:PO:301:CYS:HB2	1.93	0.51
25:QE:67:ASP:OD1	25:QE:72:THR:OG1	2.28	0.51
24:QL:175:PRO:HB3	24:QL:390:ARG:HD3	1.92	0.51
24:QN:223:THR:HG22	25:QO:322:SER:HA	1.92	0.51
25:RG:20:PHE:HA	25:RG:230:SER:HB2	1.92	0.51
24:RJ:278:ALA:HA	24:RJ:369:ALA:HB2	1.93	0.51
24:SB:272:TYR:HB3	24:SB:275:ILE:HD11	1.93	0.51
24:SD:91:GLN:HG3	24:SD:121:ARG:HD2	1.93	0.51
24:SF:306:ASP:HB3	24:SF:309:HIS:HD2	1.76	0.51
24:SN:198:THR:HG21	24:SN:201:ALA:HB2	1.93	0.51
24:TF:325:PRO:O	24:TF:329:ASN:ND2	2.42	0.51
25:TG:318:ARG:HE	25:TG:358:PRO:HD3	1.75	0.51
25:TM:86:ARG:HH11	25:TM:89:ASN:HD21	1.59	0.51
24:TP:154:LEU:HD21	24:TP:198:THR:HG23	1.93	0.51
24:UB:203:MET:HB2	24:UB:269:LEU:HA	1.93	0.51
25:UC:139:LEU:HD12	25:UC:170:VAL:HG12	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:UC:392:LYS:HB2	25:UC:395:LEU:HD13	1.92	0.51
25:UI:17:GLY:HA2	25:UI:20:PHE:HB3	1.93	0.51
25:UI:100:ASN:HB3	25:UI:103:LYS:HB2	1.93	0.51
24:UJ:406:HIS:HA	24:UJ:409:VAL:HG12	1.93	0.51
25:UK:286:VAL:HG11	25:UK:326:VAL:HG22	1.93	0.51
24:VD:213:CYS:HB3	24:VD:222:PRO:HG3	1.93	0.51
24:VD:319:TYR:O	24:VD:356:ASN:N	2.38	0.51
24:WF:288:VAL:HG13	24:WF:319:TYR:HE2	1.74	0.51
24:WN:9:ILE:HG22	24:WN:146:GLY:HA2	1.92	0.51
39:X2:801:ALA:N	40:Y5:17:GLU:OE2	2.40	0.51
24:XB:240:ALA:HA	24:XB:243:ARG:HE	1.75	0.51
24:XD:395:PHE:HE2	24:XD:422:ARG:HB2	1.76	0.51
40:Y0:177:ALA:HB1	40:Y0:183:SER:HA	1.91	0.51
40:Y2:453:GLN:OE1	40:Y2:456:ARG:NH1	2.44	0.51
40:Y3:365:LEU:HD21	40:Y3:381:VAL:HG21	1.92	0.51
25:YE:139:LEU:HD12	25:YE:170:VAL:HG12	1.92	0.51
25:YG:83:GLN:O	25:ZG:281:TYR:OH	2.23	0.51
41:Z0:437:TYR:O	41:Z0:475:ARG:NE	2.42	0.51
41:Z0:541:LYS:NZ	41:Z0:592:MET:SD	2.83	0.51
25:ZE:68:LEU:HD23	25:ZE:93:GLY:HA3	1.92	0.51
25:ZE:328:GLU:OE2	25:ZE:329:GLN:NE2	2.38	0.51
25:ZO:176:SER:OG	25:ZO:178:THR:O	2.29	0.51
2:1A:1348:LEU:HD13	2:1A:1439:LEU:HB3	1.91	0.51
2:1A:2012:VAL:O	2:1A:2111:THR:HA	2.10	0.51
2:1B:2269:PRO:HB3	2:1B:2274:GLY:HA2	1.91	0.51
2:1C:2012:VAL:HB	2:1C:2112:VAL:HB	1.92	0.51
2:1D:1952:GLN:HB3	2:1D:1966:LEU:HD21	1.92	0.51
18:C1:1302:ALA:HA	18:C1:1305:PHE:CE1	2.46	0.51
18:C1:1358:VAL:H	18:C1:1386:LYS:HZ1	1.58	0.51
18:C2:1776:CYS:SG	18:C2:1777:ALA:N	2.78	0.51
20:E2:155:THR:HG22	20:E2:156:TYR:H	1.76	0.51
19:J2:136:GLU:O	19:J2:142:LYS:NZ	2.44	0.51
19:L1:268:LYS:HB3	19:L1:301:TYR:HE1	1.74	0.51
22:M1:971:LEU:HB2	28:Q1:1077:ARG:HH22	1.76	0.51
25:OO:139:LEU:HD12	25:OO:170:VAL:HG12	1.93	0.51
25:PG:63:ALA:O	25:PG:89:ASN:ND2	2.41	0.51
24:PL:259:LEU:HD23	24:PL:268:MET:HG2	1.93	0.51
25:PQ:159:TYR:HB3	25:PQ:162:ARG:HG3	1.91	0.51
28:Q1:1161:MET:HG2	28:Q1:1208:VAL:HG21	1.92	0.51
24:QD:269:LEU:HD12	24:QD:301:MET:HG2	1.91	0.51
25:QE:105:HIS:CD2	25:QE:150:LEU:HB2	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:QF:288:VAL:HG13	24:QF:319:TYR:HE2	1.74	0.51
25:QO:253:LEU:HD11	25:QO:316:LEU:HD11	1.93	0.51
29:R0:49:VAL:HG22	29:R0:95:ALA:HB2	1.93	0.51
25:RC:73:MET:HA	25:RC:76:VAL:HG22	1.93	0.51
25:RE:176:SER:OG	25:RE:178:THR:O	2.29	0.51
24:SD:286:LEU:O	24:SD:373:ARG:NH1	2.42	0.51
24:SF:384:ILE:HA	24:SF:387:ILE:HD13	1.92	0.51
25:SO:100:ASN:HB3	25:SO:103:LYS:HB3	1.91	0.51
32:T3:212:VAL:HA	32:T3:218:VAL:HA	1.92	0.51
24:TB:387:ILE:HA	24:TB:390:ARG:HD2	1.91	0.51
25:TC:49:VAL:HG21	25:TC:241:ARG:HG2	1.92	0.51
24:UD:215:ARG:HH12	24:UD:299:ALA:HB1	1.76	0.51
25:UG:397:TRP:HE1	24:UH:260:VAL:HG23	1.75	0.51
24:UH:185:TYR:HE2	24:UH:398:MET:HB3	1.76	0.51
25:UM:178:THR:HA	24:UN:352:LYS:HD3	1.93	0.51
24:UN:225:THR:HG21	36:W3:35:UNK:HA	1.92	0.51
25:UO:3:GLU:OE2	25:UO:129:CYS:N	2.44	0.51
24:VB:79:ARG:NH2	24:VB:92:LEU:O	2.44	0.51
25:VC:232:VAL:HG11	25:VC:268:VAL:HG11	1.92	0.51
24:VD:53:PHE:HB3	24:VD:61:HIS:HB3	1.93	0.51
24:VL:71:GLU:OE2	24:VL:73:THR:OG1	2.28	0.51
24:WB:66:ILE:HA	24:WB:91:GLN:HB3	1.92	0.51
25:WG:292:GLN:O	25:WG:298:ASN:ND2	2.41	0.51
25:WI:337:ASN:HB2	25:WI:340:TYR:HD2	1.75	0.51
24:WL:205:ASP:HB2	24:WL:303:VAL:HG23	1.91	0.51
24:WN:286:LEU:O	24:WN:373:ARG:NH1	2.43	0.51
39:X2:127:VAL:HB	39:X2:157:ARG:HG2	1.93	0.51
25:XA:31:ASP:OD2	25:XA:37:HIS:CE1	2.64	0.51
24:XB:273:ALA:HB1	24:XB:291:ILE:HB	1.93	0.51
25:XC:375:GLN:HB2	25:XC:419:VAL:HG23	1.93	0.51
24:XH:206:ASN:ND2	44:XH:501:GTP:O2'	2.43	0.51
24:XL:6:SER:HA	24:XL:136:LEU:HB2	1.91	0.51
25:XM:86:ARG:HG2	24:YN:283:HIS:HB3	1.93	0.51
40:Y1:414:SER:HB2	40:Y1:438:LYS:HB3	1.93	0.51
24:YF:102:ASN:HB3	24:YF:105:ARG:HB2	1.92	0.51
25:YG:184:ASN:OD1	25:YG:398:TYR:OH	2.29	0.51
24:YN:288:VAL:HG13	24:YN:319:TYR:HE2	1.76	0.51
2:1D:1309:ARG:NH1	2:1D:1312:GLU:OE2	2.44	0.51
2:1D:1521:GLN:HA	2:1D:1963:LEU:HD12	1.93	0.51
2:1D:1978:ASP:HB3	2:1D:1983:HIS:CE1	2.46	0.51
4:2B:1088:GLN:HA	4:2B:1108:CYS:HA	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:8A:116:VAL:HG11	24:VP:357:TYR:HB3	1.92	0.51
16:A1:41:GLU:O	24:XL:402:ARG:NH2	2.43	0.51
18:C0:416:ARG:HH22	18:C0:417:ARG:HG2	1.76	0.51
18:C0:595:ARG:HG3	18:C0:765:PHE:HE1	1.76	0.51
18:C0:1225:PHE:HA	18:C0:1245:ARG:NH2	2.26	0.51
18:C2:1378:THR:HG22	18:C2:1455:LEU:HD13	1.92	0.51
21:F3:99:TYR:OH	21:F3:166:ASP:O	2.28	0.51
19:G2:176:VAL:O	19:G2:184:LYS:NZ	2.38	0.51
19:H1:108:ARG:HB3	19:H1:148:THR:HA	1.93	0.51
19:K0:227:ARG:HB3	19:K0:267:VAL:HG12	1.93	0.51
19:L0:38:GLN:HG3	19:L0:75:LEU:HD21	1.93	0.51
19:L0:337:LEU:HD13	19:L0:340:LEU:HD12	1.93	0.51
25:NK:182:PRO:HG3	25:NK:384:GLN:HB3	1.93	0.51
24:NL:225:THR:HG22	24:NL:229:ARG:HE	1.76	0.51
26:O0:396:LEU:HG	26:O0:399:GLU:HG3	1.92	0.51
25:OK:113:ILE:HA	25:OK:116:VAL:HG22	1.93	0.51
24:OL:265:ILE:HG23	24:OL:432:PHE:HE1	1.76	0.51
25:OM:271:THR:O	25:OM:292:GLN:NE2	2.44	0.51
24:ON:212:ILE:O	24:ON:216:SER:OG	2.27	0.51
25:PC:8:GLN:HB2	25:PC:65:LEU:HA	1.93	0.51
25:PI:268:VAL:HG12	25:PI:368:ILE:HA	1.93	0.51
24:PP:116:ASP:OD1	24:PP:116:ASP:N	2.42	0.51
25:QC:51:PHE:HB3	25:QC:59:TYR:HB3	1.92	0.51
25:QI:31:ASP:OD1	25:QI:35:THR:N	2.41	0.51
24:QL:193:SER:O	24:QL:197:HIS:ND1	2.43	0.51
24:QL:402:ARG:HH22	24:QL:415:GLU:HG2	1.76	0.51
24:QP:141:VAL:HA	24:QP:147:SER:HB3	1.92	0.51
25:RC:345:ILE:O	25:RC:348:ASN:ND2	2.43	0.51
25:RG:113:ILE:HG13	25:RG:150:LEU:HD23	1.91	0.51
25:RK:392:LYS:HD3	25:RK:395:LEU:HD23	1.93	0.51
24:RN:9:ILE:HD13	24:RN:150:GLY:HA2	1.92	0.51
25:RO:253:LEU:HD11	25:RO:316:LEU:HD11	1.92	0.51
24:RP:426:ALA:O	24:RP:430:LYS:N	2.42	0.51
24:SD:272:TYR:HB3	24:SD:275:ILE:HD11	1.92	0.51
24:SF:3:GLU:OE1	24:SF:130:THR:N	2.44	0.51
24:SJ:204:LEU:HD12	24:SJ:209:ILE:HD11	1.93	0.51
25:SK:33:THR:HA	25:SK:83:GLN:HE21	1.76	0.51
25:SK:256:ASN:HD22	25:SK:350:LYS:HG3	1.74	0.51
25:SM:100:ASN:HD21	24:SN:257:THR:HB	1.75	0.51
24:TF:14:ILE:O	24:TF:18:ASN:N	2.42	0.51
25:TG:113:ILE:HA	25:TG:116:VAL:HG22	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:TH:50:ASN:O	24:TH:64:ARG:NH1	2.44	0.51
24:TH:100:ALA:HA	25:TI:252:LYS:HD2	1.93	0.51
24:TH:199:ASP:OD2	24:TH:256:GLN:NE2	2.43	0.51
25:TO:91:VAL:HG11	25:TO:116:VAL:HG12	1.92	0.51
24:UB:11:GLN:N	44:UB:501:GTP:O2B	2.39	0.51
25:UI:309:ARG:NH2	25:UI:426:GLN:O	2.43	0.51
24:VH:288:VAL:HG13	24:VH:319:TYR:HE2	1.76	0.51
24:VN:102:ASN:HB3	24:VN:105:ARG:HB2	1.92	0.51
24:WD:77:GLU:HA	24:WD:80:THR:HG22	1.92	0.51
25:WG:237:THR:HG22	25:WG:250:LEU:HD11	1.93	0.51
25:WG:259:PRO:HG2	25:WG:311:LEU:HD23	1.92	0.51
39:X1:291:LYS:HZ1	39:X1:564:THR:N	2.08	0.51
39:X2:510:VAL:O	39:X2:568:ARG:NH2	2.44	0.51
24:XJ:405:VAL:HG13	24:XJ:418:PHE:HE2	1.76	0.51
24:XL:2:ARG:NH2	24:XL:242:LEU:O	2.44	0.51
24:XL:292:THR:HG1	24:XL:319:TYR:HH	1.57	0.51
24:XN:273:ALA:HB3	24:XN:375:VAL:H	1.74	0.51
40:Y0:81:SER:OG	40:Y0:94:ARG:NH2	2.43	0.51
40:Y2:196:ASN:O	40:Y2:203:ASN:ND2	2.36	0.51
40:Y3:134:GLN:HG3	40:Y3:137:LYS:HZ3	1.76	0.51
40:Y3:193:ASN:HD22	40:Y3:252:GLU:HG2	1.76	0.51
40:Y3:239:LYS:HZ3	40:Y3:244:GLN:HA	1.75	0.51
40:Y5:420:THR:HG22	40:Y5:421:GLU:H	1.76	0.51
25:YC:290:THR:HG21	25:YC:329:GLN:HB3	1.91	0.51
24:YL:166:LYS:O	24:YL:198:THR:OG1	2.28	0.51
41:Z3:518:LYS:O	41:Z3:521:ILE:N	2.44	0.51
41:Z3:536:GLU:HA	41:Z3:539:LYS:HG2	1.93	0.51
24:ZF:251:ASP:OD1	24:ZF:252:ILE:N	2.44	0.51
2:1C:2470:PHE:HA	2:1C:2473:ARG:HG2	1.93	0.51
11:5C:235:LEU:HA	11:5C:281:ALA:HB1	1.91	0.51
14:8A:144:GLY:O	24:TP:2:ARG:NH2	2.38	0.51
14:8C:256:ARG:HH21	19:J1:71:TYR:HA	1.76	0.51
16:A2:181:PRO:HA	16:A2:184:ARG:HE	1.76	0.51
18:C3:65:PRO:HB2	18:C3:129:ARG:HH22	1.75	0.51
18:C4:146:SER:OG	18:C4:150:ARG:NH1	2.43	0.51
19:D6:311:LEU:HB3	19:D6:352:LEU:HD21	1.92	0.51
20:E1:445:TRP:HB2	25:VE:361:LEU:HD11	1.93	0.51
19:G4:318:GLY:O	19:G4:362:GLN:NE2	2.40	0.51
19:H6:138:ASP:HB3	19:H6:141:VAL:HB	1.93	0.51
19:H7:122:ILE:HG22	19:H7:127:LEU:HD21	1.93	0.51
19:I0:284:GLU:HA	19:I0:287:GLN:HG3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:J3:74:ASP:OD1	19:J3:74:ASP:N	2.42	0.51
19:K0:85:LEU:HD21	19:K0:121:VAL:HA	1.92	0.51
19:K3:287:GLN:HA	19:K3:290:VAL:HG22	1.93	0.51
22:M0:947:LEU:HA	28:Q0:1166:LEU:HD22	1.93	0.51
25:NG:164:MET:HB2	25:NG:197:ASP:H	1.76	0.51
25:NK:283:ALA:HB2	25:ZK:54:ALA:HA	1.93	0.51
26:O0:749:ASP:O	26:O0:864:HIS:N	2.43	0.51
25:OG:292:GLN:HG2	25:OG:298:ASN:HD22	1.76	0.51
24:OL:9:ILE:HG22	24:OL:146:GLY:HA2	1.91	0.51
24:ON:251:ASP:H	24:ON:254:GLU:HB2	1.76	0.51
24:OP:147:SER:HB3	24:OP:190:SER:HB3	1.92	0.51
24:PF:272:TYR:HB3	24:PF:275:ILE:HD11	1.91	0.51
25:PG:309:ARG:NH1	25:PG:339:SER:O	2.44	0.51
28:Q0:899:GLN:NE2	28:Q0:915:LEU:O	2.44	0.51
28:Q0:1619:VAL:HB	28:Q0:1751:LEU:HD22	1.93	0.51
28:Q1:739:TRP:HE1	28:Q1:899:GLN:HE21	1.59	0.51
28:Q1:2178:LEU:HD13	28:Q1:2202:ARG:HA	1.93	0.51
25:QC:68:LEU:HD23	25:QC:143:THR:HG23	1.92	0.51
24:QH:68:LEU:HD23	24:QH:153:LEU:HD11	1.93	0.51
25:RG:290:THR:HG21	25:RG:329:GLN:HB3	1.93	0.51
25:RO:61:PRO:HD3	25:RO:84:ILE:HG12	1.92	0.51
24:RP:318:MET:HB2	24:RP:376:CYS:HB3	1.92	0.51
25:SC:134:GLN:HA	25:SC:165:LEU:HB2	1.92	0.51
25:SE:124:ALA:HB1	25:SE:130:LEU:HD11	1.91	0.51
25:SE:248:ALA:HA	25:SE:252:LYS:HG3	1.93	0.51
24:SF:15:GLN:NE2	44:SF:501:GTP:O6	2.44	0.51
24:SJ:352:LYS:NZ	24:SJ:353:CYS:O	2.44	0.51
32:T1:420:PRO:HD2	32:T1:433:VAL:HG23	1.91	0.51
24:TB:71:GLU:OE2	25:TC:2:ARG:NH1	2.43	0.51
25:TC:376:GLU:OE1	25:TC:380:ARG:NH1	2.44	0.51
25:TI:311:LEU:HD12	25:TI:342:VAL:HG11	1.91	0.51
25:TO:139:LEU:HD12	25:TO:170:VAL:HG12	1.93	0.51
33:U0:37:LYS:HE3	33:U0:39:ARG:HH12	1.76	0.51
24:UD:76:ASP:OD1	25:UE:46:ARG:NH2	2.44	0.51
25:UI:330:MET:HB3	25:UI:349:VAL:HG21	1.92	0.51
24:VB:65:CYS:SG	24:VB:66:ILE:N	2.84	0.51
25:VI:27:GLU:OE1	25:VI:241:ARG:NH2	2.44	0.51
25:VI:188:SER:O	25:VI:192:LEU:HB2	2.10	0.51
24:WD:345:ASP:OD1	24:WD:345:ASP:N	2.44	0.51
24:WN:255:PHE:O	24:WN:259:LEU:HB3	2.11	0.51
39:X0:274:ARG:HA	39:X0:303:LEU:HD11	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:X1:710:ALA:HA	39:X1:770:LEU:HA	1.93	0.51
25:XA:153:SER:HA	25:XA:195:ASN:HD22	1.75	0.51
25:XA:205:GLU:HA	25:XA:208:TYR:HB2	1.92	0.51
25:XC:139:LEU:HD12	25:XC:170:VAL:HG12	1.93	0.51
24:XL:292:THR:OG1	24:XL:319:TYR:OH	2.28	0.51
40:Y4:128:LYS:HB3	40:Y4:131:GLU:HB3	1.93	0.51
40:Y4:170:VAL:HB	40:Y4:174:LYS:HD2	1.93	0.51
40:Y6:386:LEU:HB3	40:Y6:413:THR:HA	1.92	0.51
40:Y7:367:THR:HG22	40:Y7:384:LEU:HD21	1.92	0.51
24:YB:31:GLN:HE22	24:YB:37:PRO:HG3	1.76	0.51
24:YD:170:THR:HG21	24:YD:194:LEU:HD21	1.93	0.51
2:1C:2060:LEU:HD12	2:1C:2069:ALA:HB1	1.92	0.50
14:8D:113:MET:HG3	14:8D:114:LYS:O	2.11	0.50
19:D2:170:PRO:HA	19:D2:173:VAL:HG22	1.92	0.50
19:G1:224:LYS:NZ	32:T0:590:GLY:O	2.44	0.50
19:G4:105:PHE:HD1	19:G4:108:ARG:HH22	1.60	0.50
19:H0:185:ARG:HH21	19:H0:224:LYS:HB2	1.76	0.50
19:H0:301:TYR:O	19:H0:305:SER:CB	2.59	0.50
19:J1:198:THR:HG22	19:J1:200:GLU:H	1.77	0.50
19:J2:248:VAL:HG21	19:J2:285:LEU:HD22	1.93	0.50
19:J3:393:SER:O	19:J3:397:LYS:NZ	2.38	0.50
19:L0:280:LYS:HG3	19:L0:319:TYR:CE1	2.46	0.50
24:NB:286:LEU:O	24:NB:373:ARG:NH2	2.43	0.50
25:NE:200:MET:HE3	25:NE:266:PHE:HB2	1.93	0.50
24:NN:178:SER:OG	25:NO:347:ASN:OD1	2.28	0.50
24:OF:101:ASN:OD1	25:OG:252:LYS:NZ	2.38	0.50
24:OF:119:LEU:HD21	24:OF:156:ARG:HB3	1.93	0.50
24:ON:205:ASP:HB3	24:ON:303:VAL:HA	1.93	0.50
24:ON:407:TRP:HZ2	25:OO:258:ILE:HD11	1.76	0.50
25:PC:284:LEU:HD21	25:PC:363:MET:HB2	1.91	0.50
24:PF:251:ASP:H	24:PF:254:GLU:HB2	1.76	0.50
24:PN:102:ASN:HB3	24:PN:105:ARG:HB2	1.92	0.50
25:PQ:68:LEU:HD12	25:PQ:97:ALA:HB2	1.92	0.50
25:PQ:236:ILE:HD12	25:PQ:368:ILE:HD11	1.92	0.50
28:Q1:1188:LEU:HD11	28:Q1:1202:LEU:HD11	1.92	0.50
25:QC:17:GLY:HA2	25:QC:20:PHE:HB3	1.92	0.50
25:QK:213:ARG:HG3	25:QK:214:THR:HG23	1.93	0.50
24:QL:205:ASP:HB2	24:QL:303:VAL:HG23	1.93	0.50
25:QM:110:ALA:HA	25:QM:113:ILE:HG22	1.91	0.50
24:QN:56:THR:HG22	24:RN:285:GLN:HB2	1.92	0.50
29:R0:1825:ALA:HA	29:R0:1832:GLU:HA	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:RD:405:VAL:HG12	24:RD:409:VAL:HG23	1.93	0.50
24:RF:2:ARG:HG2	24:RF:51:THR:HG22	1.92	0.50
25:RG:128:ASP:OD1	25:RG:129:CYS:N	2.44	0.50
25:RK:416:ASN:HA	25:RK:419:VAL:HG22	1.91	0.50
24:RL:222:PRO:HB3	24:RL:226:ASN:HD22	1.76	0.50
24:RN:192:HIS:ND1	24:RN:424:ASP:OD2	2.44	0.50
24:RP:237:SER:HA	24:RP:320:ARG:HH11	1.75	0.50
24:SB:56:THR:HA	24:TB:285:GLN:HB2	1.93	0.50
25:SI:234:SER:O	25:SI:241:ARG:NH2	2.35	0.50
24:SN:73:THR:HA	25:SO:46:ARG:HH21	1.76	0.50
25:TG:68:LEU:HD12	25:TG:97:ALA:HB2	1.93	0.50
24:TH:17:GLY:HA2	24:TH:20:CYS:HB2	1.93	0.50
24:TH:288:VAL:HG23	24:TH:373:ARG:HH11	1.77	0.50
25:TO:77:ARG:NH2	25:TO:82:GLY:O	2.35	0.50
25:UC:91:VAL:HG11	25:UC:116:VAL:HG12	1.93	0.50
25:UI:58:ARG:NH1	25:VI:280:GLN:OE1	2.44	0.50
25:UK:178:THR:HG22	24:UL:352:LYS:HZ2	1.75	0.50
24:VB:217:LEU:HG	24:VB:275:ILE:HG22	1.94	0.50
24:VL:205:ASP:HB3	24:VL:303:VAL:HA	1.92	0.50
24:VL:286:LEU:O	24:VL:373:ARG:NH1	2.44	0.50
24:VN:274:PRO:HD2	24:VN:374:ALA:HA	1.93	0.50
24:WB:186:ASN:OD1	24:WB:408:TYR:OH	2.28	0.50
24:WF:316:CYS:HA	24:WF:352:LYS:HB3	1.93	0.50
24:WL:71:GLU:HB2	24:WL:98:ASP:HB3	1.92	0.50
39:X1:97:LEU:HB2	39:X1:119:VAL:HG12	1.93	0.50
39:X1:207:CYS:HB3	39:X1:210:LEU:HD23	1.93	0.50
25:XE:379:LYS:HG3	25:XE:419:VAL:HG21	1.92	0.50
25:XK:139:LEU:HB2	25:XK:171:PRO:HD3	1.93	0.50
40:Y6:19:VAL:HG22	40:Y6:35:MET:HG2	1.92	0.50
40:Y7:134:GLN:HA	40:Y7:137:LYS:HZ3	1.76	0.50
24:YB:9:ILE:HD11	24:YB:153:LEU:HD23	1.91	0.50
25:YE:60:VAL:HG21	25:YE:86:ARG:HG3	1.92	0.50
24:YL:265:ILE:HG22	24:YL:380:ASN:HD21	1.76	0.50
25:YM:209:ASP:OD1	25:YM:213:ARG:NH2	2.44	0.50
24:YN:137:VAL:HG22	24:YN:168:GLY:HA2	1.93	0.50
24:ZH:224:TYR:HA	24:ZH:227:LEU:HD13	1.93	0.50
24:ZH:395:PHE:HE2	24:ZH:422:ARG:HB2	1.76	0.50
24:ZN:203:MET:HG3	24:ZN:303:VAL:HG21	1.94	0.50
24:ZN:225:THR:HG22	24:ZN:229:ARG:HH21	1.77	0.50
25:ZO:113:ILE:HA	25:ZO:116:VAL:HG22	1.94	0.50
16:A4:53:LYS:HG3	16:A4:57:LYS:NZ	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:B0:680:ARG:NE	17:B0:681:GLU:OE2	2.45	0.50
18:C1:1241:GLU:HG2	18:C1:1245:ARG:NH1	2.25	0.50
18:C2:1576:LEU:HD22	18:C2:1608:LEU:HB3	1.93	0.50
18:C3:1576:LEU:HD23	18:C3:1617:THR:HA	1.93	0.50
19:D1:268:LYS:HB3	19:D1:301:TYR:HE1	1.75	0.50
19:D4:46:LEU:HA	19:D4:49:LEU:HD12	1.93	0.50
19:I0:311:LEU:HG	19:I0:312:PRO:HD3	1.92	0.50
19:K1:4:ARG:NH2	24:SN:424:ASP:OD1	2.44	0.50
19:K1:318:GLY:HA3	19:K1:359:THR:HG22	1.94	0.50
22:M1:759:ASP:O	28:Q1:1631:ARG:NH2	2.39	0.50
23:N2:39:LEU:HD11	23:N2:62:LEU:HD11	1.93	0.50
24:ND:77:GLU:HA	24:ND:80:THR:HG22	1.93	0.50
24:NH:181:VAL:HG23	25:NI:350:LYS:HB2	1.93	0.50
24:NN:102:ASN:HB3	24:NN:105:ARG:HB2	1.93	0.50
25:NO:330:MET:HE2	25:NO:349:VAL:HG11	1.93	0.50
24:OH:18:ASN:HD21	24:OH:78:VAL:HG22	1.75	0.50
25:OK:375:GLN:HA	25:OK:378:PHE:HB2	1.93	0.50
25:OM:99:ASN:OD1	25:OM:184:ASN:ND2	2.43	0.50
24:OP:178:SER:OG	25:OQ:347:ASN:OD1	2.20	0.50
24:PH:210:TYR:CE1	24:PH:227:LEU:HB2	2.46	0.50
25:PM:202:LEU:HD23	25:PM:229:ILE:HD12	1.92	0.50
24:PP:84:ARG:NH1	24:PP:85:GLN:OE1	2.45	0.50
24:PP:195:LEU:O	24:PP:266:HIS:NE2	2.38	0.50
28:Q1:64:ALA:HA	28:Q1:68:ARG:HH21	1.75	0.50
24:RH:68:LEU:HA	24:RH:93:ILE:HB	1.92	0.50
25:SC:397:TRP:HE1	24:SD:260:VAL:HB	1.76	0.50
25:SG:3:GLU:HG2	25:SG:62:ARG:HH22	1.76	0.50
25:SM:174:LYS:HG3	25:SM:175:VAL:HG13	1.94	0.50
25:TE:396:HIS:HA	25:TE:399:THR:HG22	1.91	0.50
24:TJ:274:PRO:HD2	24:TJ:374:ALA:HA	1.93	0.50
33:U1:74:ALA:HB3	33:U1:97:LEU:HD23	1.93	0.50
25:UI:26:ASP:O	25:UI:359:LYS:NZ	2.34	0.50
24:UL:1:MET:SD	24:UL:130:THR:OG1	2.68	0.50
24:VB:298:PRO:HB3	24:VB:307:PRO:HD2	1.93	0.50
25:VC:12:CYS:SG	25:VC:13:GLY:N	2.84	0.50
24:VN:168:GLY:N	24:VN:200:VAL:O	2.38	0.50
25:WC:139:LEU:HD12	25:WC:170:VAL:HG12	1.93	0.50
24:WJ:102:ASN:HB3	24:WJ:105:ARG:HB2	1.94	0.50
24:XD:327:ASP:HA	24:XD:330:ALA:HB3	1.93	0.50
24:XH:259:LEU:HD23	24:XH:268:MET:HE2	1.92	0.50
25:XI:176:SER:OG	25:XI:178:THR:O	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:XM:375:GLN:HB2	25:XM:419:VAL:HG23	1.93	0.50
40:Y0:195:ILE:HB	40:Y0:210:PHE:HB2	1.92	0.50
40:Y4:79:VAL:HG12	40:Y4:154:LEU:HB3	1.93	0.50
40:Y4:85:THR:HB	40:Y4:89:GLU:HG2	1.93	0.50
25:YE:207:LEU:HD21	25:YE:300:MET:HE2	1.93	0.50
25:YE:234:SER:OG	25:YE:241:ARG:NH2	2.44	0.50
24:YN:11:GLN:NE2	25:YO:247:ASN:OD1	2.43	0.50
24:YP:185:TYR:HE2	24:YP:404:PHE:HB2	1.76	0.50
41:Z0:76:GLY:HA3	41:Z0:158:GLN:HA	1.94	0.50
41:Z0:209:GLY:HA2	41:Z0:235:GLY:HA3	1.93	0.50
24:ZB:305:CYS:HB3	24:ZB:387:ILE:HD11	1.93	0.50
25:ZC:60:VAL:HG21	25:ZC:86:ARG:HH21	1.77	0.50
25:ZG:319:GLY:N	25:ZG:354:CYS:O	2.45	0.50
16:A1:175:THR:HG22	16:A1:177:HIS:H	1.75	0.50
18:C0:1671:GLU:OE2	18:C0:1673:TRP:NE1	2.44	0.50
18:C3:1307:ARG:NH2	18:C3:1331:ASP:OD1	2.41	0.50
20:E3:50:ILE:HA	20:E3:61:ILE:HD11	1.92	0.50
19:G2:139:PRO:HB3	19:G2:183:LEU:HD22	1.94	0.50
19:G2:278:VAL:HG13	19:G2:285:LEU:HD12	1.93	0.50
19:H6:283:PRO:O	19:H6:287:GLN:NE2	2.45	0.50
19:J2:149:LEU:HA	19:J2:152:ILE:HG22	1.92	0.50
19:J3:17:ARG:HH11	19:J3:49:LEU:HD21	1.75	0.50
19:J3:108:ARG:O	19:J3:112:ARG:HB2	2.11	0.50
19:L2:69:ALA:O	19:L2:113:HIS:NE2	2.44	0.50
19:L3:52:ASP:HB2	19:L3:58:GLN:HE22	1.77	0.50
19:L3:170:PRO:HA	19:L3:173:VAL:HG22	1.93	0.50
22:M0:867:LEU:HD22	28:Q0:198:VAL:HG23	1.93	0.50
24:ND:177:VAL:HB	24:ND:207:GLU:HG2	1.91	0.50
26:O1:749:ASP:O	26:O1:864:HIS:N	2.44	0.50
25:OE:309:ARG:H	25:OE:372:THR:HG1	1.56	0.50
24:PL:273:ALA:HB3	24:PL:375:VAL:HB	1.93	0.50
24:PL:319:TYR:HD2	24:PL:323:VAL:HG11	1.76	0.50
28:Q0:2696:ARG:HH21	28:Q0:2710:LEU:HD21	1.76	0.50
25:QQ:130:LEU:HB2	25:QQ:162:ARG:HE	1.74	0.50
25:SI:396:HIS:HA	25:SI:399:THR:HG22	1.92	0.50
24:SL:85:GLN:O	24:TL:283:HIS:NE2	2.44	0.50
24:SP:272:TYR:O	24:SP:300:SER:OG	2.27	0.50
32:T2:379:MET:HB2	32:T2:468:LEU:HD23	1.93	0.50
24:TH:80:THR:O	24:TH:84:ARG:NH2	2.44	0.50
24:TL:252:ILE:O	24:TL:256:GLN:NE2	2.45	0.50
24:TL:267:PHE:HE2	24:TL:428:LEU:HD11	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:UF:9:ILE:HG13	24:UF:68:LEU:HD21	1.93	0.50
25:UM:259:PRO:HG2	25:UM:311:LEU:HD23	1.94	0.50
24:VL:71:GLU:HB2	24:VL:98:ASP:HB3	1.94	0.50
25:WI:238:CYS:HB2	25:WI:318:ARG:HH11	1.77	0.50
24:WJ:132:LEU:HD22	24:WJ:164:LYS:HD3	1.91	0.50
39:X0:244:GLN:HE22	39:X0:246:SER:HB3	1.76	0.50
39:X2:112:ARG:HE	39:X2:138:SER:HA	1.76	0.50
39:X2:476:GLU:HG2	39:X2:480:ARG:HE	1.76	0.50
24:XB:403:ALA:HB2	25:XC:344:TRP:HZ3	1.76	0.50
25:XC:105:HIS:CE1	25:XC:150:LEU:HB3	2.46	0.50
25:XG:130:LEU:O	25:XG:162:ARG:NH1	2.44	0.50
25:YC:391:ARG:NH1	24:YD:262:TYR:OH	2.43	0.50
24:YD:322:ASP:OD1	24:YD:322:ASP:N	2.45	0.50
25:YI:4:ILE:HA	25:YI:132:GLY:O	2.10	0.50
24:ZH:316:CYS:HA	24:ZH:352:LYS:HB3	1.94	0.50
25:ZI:60:VAL:HG21	25:ZI:86:ARG:HG3	1.93	0.50
24:ZL:255:PHE:HE2	24:ZL:378:ILE:HD12	1.76	0.50
24:ZL:318:MET:HB2	24:ZL:376:CYS:HB3	1.94	0.50
25:ZM:25:SER:HB2	25:ZM:30:ILE:HB	1.93	0.50
2:1A:909:TYR:O	2:1A:982:ASP:N	2.43	0.50
2:1B:1334:GLU:HG2	2:1B:1337:ARG:HE	1.76	0.50
2:1B:2156:ILE:HG22	2:1B:2300:VAL:HG13	1.93	0.50
2:1D:909:TYR:O	2:1D:982:ASP:N	2.44	0.50
2:1D:1816:ASP:HB3	2:1D:1818:ARG:HG2	1.93	0.50
4:2A:292:VAL:HG23	4:2A:318:VAL:HG21	1.93	0.50
16:A3:92:ASN:HA	24:YD:308:ARG:HH22	1.76	0.50
17:B0:531:GLU:HB2	26:O0:388:ARG:HE	1.76	0.50
17:B2:453:ALA:O	17:B2:456:ARG:HB2	2.12	0.50
18:C0:595:ARG:HG3	18:C0:765:PHE:CE1	2.46	0.50
18:C1:1805:ASP:HA	18:C1:1808:PHE:HD1	1.76	0.50
18:C2:479:LEU:HD11	18:C2:506:PHE:HB2	1.93	0.50
18:C3:341:VAL:HG22	18:C3:345:ARG:HH12	1.76	0.50
18:C3:649:VAL:HG11	18:C3:689:ARG:HE	1.77	0.50
19:D4:218:VAL:O	19:D4:226:LYS:NZ	2.38	0.50
19:D6:240:SER:OG	19:D6:242:ASP:OD1	2.27	0.50
19:G1:248:VAL:HG11	19:G1:285:LEU:HD22	1.93	0.50
19:G2:380:LEU:HA	19:G2:383:LEU:HD12	1.94	0.50
19:H1:350:ASP:HA	19:H1:353:LYS:HD3	1.93	0.50
19:H6:369:ASP:HA	19:H6:372:LYS:HE2	1.94	0.50
19:J1:164:VAL:HG21	19:J1:201:LEU:HD22	1.93	0.50
19:K2:310:ARG:HB2	19:K2:352:LEU:HD11	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L3:181:LEU:HD22	19:L3:225:LEU:HD11	1.93	0.50
22:M1:214:THR:HG22	22:M1:238:SER:HB3	1.93	0.50
22:M1:756:ARG:HH22	28:Q1:2021:ASP:HB3	1.77	0.50
23:N0:33:ASN:ND2	25:UO:399:THR:OG1	2.44	0.50
25:NK:317:PHE:HB2	25:NK:353:VAL:HG12	1.93	0.50
26:O2:211:ALA:HA	26:O2:214:ARG:HG2	1.93	0.50
24:OD:250:VAL:HG23	24:OD:254:GLU:HB2	1.94	0.50
24:OH:97:GLU:HG2	25:OI:251:ARG:HH12	1.76	0.50
24:OJ:402:ARG:NH1	24:OJ:415:GLU:OE2	2.43	0.50
24:OL:14:ILE:O	24:OL:18:ASN:ND2	2.44	0.50
25:PG:329:GLN:HA	25:PG:332:ASN:HB3	1.93	0.50
24:PH:6:SER:HA	24:PH:136:LEU:HB2	1.92	0.50
25:PO:31:ASP:OD1	25:PO:35:THR:N	2.45	0.50
24:PP:101:ASN:ND2	24:PP:143:GLY:HA2	2.27	0.50
25:PQ:86:ARG:HH12	25:QQ:282:ARG:HA	1.76	0.50
28:Q0:283:GLN:OE1	28:Q0:300:GLN:NE2	2.41	0.50
28:Q0:1037:VAL:HG11	28:Q0:1100:LEU:HD22	1.94	0.50
28:Q0:2606:ALA:HB1	28:Q0:2977:GLY:HA2	1.92	0.50
28:Q1:213:PRO:HG3	28:Q1:268:VAL:HG22	1.92	0.50
28:Q1:2491:VAL:HG11	28:Q1:2507:LEU:HG	1.94	0.50
25:QI:4:ILE:HB	25:QI:50:TYR:HE1	1.76	0.50
24:QJ:388:PHE:O	24:QJ:392:ASP:N	2.39	0.50
25:RE:4:ILE:HB	25:RE:50:TYR:HE1	1.77	0.50
25:RE:20:PHE:HA	25:RE:230:SER:HB2	1.92	0.50
24:RJ:189:LEU:HD11	24:RJ:418:PHE:HE1	1.75	0.50
24:RN:402:ARG:HD2	24:RN:405:VAL:HG21	1.94	0.50
24:SD:14:ILE:O	24:SD:18:ASN:N	2.37	0.50
25:SI:207:LEU:HB3	25:SI:225:LEU:HD12	1.93	0.50
25:SI:259:PRO:HG2	25:SI:311:LEU:HD23	1.92	0.50
25:SM:220:PRO:HD2	24:SN:326:LYS:HE2	1.93	0.50
24:SN:105:ARG:HA	24:SN:109:THR:HB	1.93	0.50
32:T0:123:GLU:HA	32:T0:176:VAL:O	2.12	0.50
24:TF:9:ILE:HD13	24:TF:150:GLY:HA2	1.93	0.50
25:TI:64:ILE:HD11	25:TI:123:GLU:HG3	1.92	0.50
24:TJ:206:ASN:OD1	44:TJ:501:GTP:O2'	2.29	0.50
25:TK:272:PRO:HG3	25:TK:364:SER:HA	1.93	0.50
25:TM:234:SER:O	25:TM:241:ARG:NH2	2.45	0.50
25:UM:192:LEU:HD22	25:UM:196:ALA:HB2	1.92	0.50
24:VB:73:THR:HG23	25:VC:2:ARG:HH22	1.76	0.50
25:VM:86:ARG:HD2	25:WM:281:TYR:HB3	1.93	0.50
25:WC:421:GLU:HA	25:WC:424:GLN:HG3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:WK:67:ASP:OD2	25:WK:68:LEU:N	2.45	0.50
24:WL:292:THR:OG1	24:WL:319:TYR:OH	2.28	0.50
25:WO:236:ILE:HD12	25:WO:368:ILE:HD11	1.92	0.50
39:X1:801:ALA:N	40:Y3:17:GLU:OE2	2.37	0.50
25:XC:113:ILE:HD11	25:XC:151:LEU:HD13	1.93	0.50
25:XI:214:THR:O	25:XI:275:SER:OG	2.29	0.50
24:XL:217:LEU:HD21	24:XL:368:LEU:HD23	1.92	0.50
25:XO:143:THR:OG1	46:XO:501:GDP:O2B	2.28	0.50
24:YB:269:LEU:HB3	24:YB:301:MET:HE1	1.94	0.50
25:YE:161:ASP:OD1	25:YE:162:ARG:NH1	2.44	0.50
25:ZE:253:LEU:HD21	25:ZE:316:LEU:HD21	1.93	0.50
24:ZL:238:LEU:HD22	24:ZL:378:ILE:HD11	1.93	0.50
2:1A:1673:LEU:HD12	2:1A:1676:THR:HG21	1.93	0.50
2:1A:2449:GLY:HA2	18:C0:1210:ARG:NH1	2.25	0.50
14:8A:255:ARG:NH2	19:J3:73:ASP:OD1	2.33	0.50
14:8A:268:ARG:NH2	14:8A:271:GLU:OE1	2.42	0.50
18:C0:599:LEU:HD11	18:C0:771:PRO:HD2	1.92	0.50
43:C0:2001:ANP:O2G	43:C0:2001:ANP:O1B	2.29	0.50
18:C2:1803:SER:OG	18:C2:1805:ASP:OD1	2.25	0.50
18:C3:21:LEU:HD12	18:C3:91:PRO:HB3	1.93	0.50
19:D4:193:ASP:HA	19:D4:196:LYS:NZ	2.27	0.50
19:D5:46:LEU:HD23	19:D5:49:LEU:HD12	1.94	0.50
19:D6:199:PRO:HG3	19:D6:239:HIS:HB3	1.93	0.50
19:G0:253:PHE:HA	19:G0:256:ILE:HD12	1.93	0.50
19:G5:221:GLN:HA	19:G5:226:LYS:HE3	1.94	0.50
19:H7:182:SER:O	19:H7:186:ILE:HG12	2.12	0.50
19:J0:79:VAL:HG22	19:J0:84:ILE:HD13	1.94	0.50
19:L0:265:GLU:HA	19:L0:268:LYS:HG2	1.93	0.50
22:M1:773:TYR:HE2	28:Q1:1618:GLU:HG2	1.76	0.50
25:NG:32:PRO:O	25:NG:83:GLN:NE2	2.40	0.50
25:NG:299:MET:HE2	25:NG:305:PRO:HG3	1.93	0.50
25:NG:375:GLN:HB2	25:NG:419:VAL:HG23	1.94	0.50
24:OD:70:LEU:HA	24:OD:95:GLY:HA3	1.93	0.50
25:OE:204:ASN:HD21	46:OE:501:GDP:N2	2.10	0.50
25:OG:54:ALA:HB3	25:OG:58:ARG:HB3	1.94	0.50
24:PN:180:ALA:HB3	24:PN:183:GLU:HG3	1.93	0.50
28:Q0:751:THR:HA	28:Q0:754:LEU:HD12	1.93	0.50
28:Q1:205:GLU:OE2	28:Q1:219:ARG:NH1	2.43	0.50
28:Q1:2206:LEU:HD12	28:Q1:2211:LEU:HB2	1.92	0.50
28:Q1:3121:LYS:HA	28:Q1:3128:GLY:HA2	1.93	0.50
24:QH:141:VAL:HA	24:QH:147:SER:HB3	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:QI:179:VAL:HG23	24:QJ:350:GLY:HA2	1.94	0.50
24:QL:210:TYR:HE1	24:QL:227:LEU:HD11	1.75	0.50
25:RM:69:GLU:HG2	25:RM:71:GLY:H	1.77	0.50
25:SE:3:GLU:HA	25:SE:49:VAL:HA	1.92	0.50
25:SI:379:LYS:HB2	25:SI:419:VAL:HG21	1.93	0.50
25:SK:27:GLU:OE1	25:SK:241:ARG:NH2	2.43	0.50
25:TC:237:THR:HG23	25:TC:241:ARG:HE	1.74	0.50
25:TE:164:MET:HG2	25:TE:196:ALA:HA	1.93	0.50
24:TF:251:ASP:OD1	24:TF:252:ILE:N	2.44	0.50
25:TI:2:ARG:HB3	25:TI:131:GLN:HB2	1.93	0.50
25:TO:345:ILE:O	25:TO:348:ASN:ND2	2.45	0.50
24:UH:71:GLU:HB2	24:UH:98:ASP:HB3	1.93	0.50
24:UL:119:LEU:HD11	24:UL:156:ARG:HB3	1.93	0.50
25:VE:423:GLN:OE1	25:VE:424:GLN:NE2	2.45	0.50
24:VF:273:ALA:HB3	24:VF:375:VAL:H	1.76	0.50
24:VH:76:ASP:HA	24:VH:79:ARG:HB2	1.93	0.50
25:VI:19:LYS:HE3	25:VI:227:HIS:CD2	2.45	0.50
25:VK:257:LEU:O	25:VK:370:ASN:ND2	2.42	0.50
24:WH:292:THR:HG1	24:WH:319:TYR:HH	1.56	0.50
24:WN:238:LEU:HD22	24:WN:378:ILE:HD11	1.93	0.50
25:WO:3:GLU:HA	25:WO:49:VAL:HA	1.93	0.50
25:XC:248:ALA:HA	25:XC:252:LYS:HD2	1.92	0.50
25:XG:210:ILE:O	25:XG:214:THR:OG1	2.21	0.50
24:XH:9:ILE:HB	24:XH:139:ASN:HB3	1.92	0.50
25:XI:21:TRP:HA	25:XI:24:VAL:HG12	1.93	0.50
40:Y2:225:ARG:HA	40:Y3:101:TYR:HE1	1.75	0.50
40:Y2:416:ARG:N	40:Y2:419:GLU:OE1	2.43	0.50
40:Y5:110:VAL:O	40:Y5:114:ASN:ND2	2.44	0.50
24:YF:175:PRO:HB3	24:YF:390:ARG:HE	1.75	0.50
25:YK:7:ILE:HD13	25:YK:151:LEU:HD21	1.93	0.50
41:Z1:556:ARG:NE	41:Z1:560:ARG:HH12	2.09	0.50
25:ZC:237:THR:HG23	25:ZC:241:ARG:HH21	1.75	0.50
25:ZK:237:THR:HB	25:ZK:240:LEU:HD12	1.91	0.50
2:1C:1721:MET:HG3	2:1C:1723:PRO:HD3	1.93	0.50
14:8C:57:SER:HA	25:XG:360:GLY:HA3	1.92	0.50
15:9E:1191:GLY:HA3	15:9E:1282:ILE:H	1.76	0.50
16:A3:94:LEU:HG	24:YD:298:PRO:HD2	1.93	0.50
18:C0:1072:GLU:HB3	18:C0:1076:ARG:NH1	2.27	0.50
18:C3:1516:LEU:HB2	18:C3:1523:LEU:HD11	1.94	0.50
18:C3:1667:TRP:O	18:C3:1748:LYS:NZ	2.22	0.50
19:D2:349:GLU:OE1	19:D2:351:HIS:ND1	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:G0:227:ARG:HH11	19:G0:266:PHE:HB2	1.76	0.50
19:G0:276:ARG:HH22	19:G0:312:PRO:HA	1.77	0.50
19:G0:325:GLU:OE1	19:G0:365:ARG:NH2	2.44	0.50
19:G1:170:PRO:HA	19:G1:173:VAL:HG22	1.94	0.50
19:G1:193:ASP:OD2	32:T0:588:ARG:NH1	2.32	0.50
19:G4:264:ASP:HB3	19:G4:267:VAL:HG22	1.94	0.50
19:G4:287:GLN:HA	19:G4:290:VAL:HG22	1.93	0.50
19:H0:276:ARG:HB2	19:H0:316:ALA:HB2	1.94	0.50
19:H2:47:ARG:HG3	19:H2:48:PRO:HD3	1.94	0.50
19:H2:52:ASP:O	19:H2:58:GLN:NE2	2.40	0.50
19:H3:115:PRO:HD3	19:H3:155:HIS:HB3	1.93	0.50
19:H4:77:GLU:HA	19:H4:80:VAL:HG12	1.93	0.50
19:I1:335:LYS:HE2	19:I1:338:PRO:HG2	1.93	0.50
19:J3:63:LEU:HG	19:J3:67:ARG:HH12	1.77	0.50
19:K1:332:ILE:HD12	19:K1:337:LEU:HG	1.93	0.50
19:L1:349:GLU:HG3	19:L1:352:LEU:HD12	1.92	0.50
22:M0:871:LEU:O	28:Q0:238:GLN:NE2	2.45	0.50
23:N1:35:PHE:HE2	23:N1:69:LEU:HD11	1.77	0.50
24:ND:251:ASP:OD1	24:ND:252:ILE:N	2.44	0.50
25:NE:207:LEU:HB3	25:NE:225:LEU:HD22	1.94	0.50
25:NI:272:PRO:HG3	25:NI:364:SER:HA	1.93	0.50
25:OG:178:THR:HB	25:OG:181:GLU:HB3	1.93	0.50
25:OI:362:LYS:HD2	25:OI:363:MET:HG2	1.93	0.50
24:OL:77:GLU:HA	24:OL:80:THR:HG22	1.92	0.50
24:OP:2:ARG:HG2	24:OP:51:THR:HG22	1.94	0.50
24:PH:177:VAL:HA	25:PI:331:LEU:HD21	1.93	0.50
24:PJ:135:PHE:HE2	24:PJ:157:LEU:HD22	1.76	0.50
25:PK:52:ASN:OD1	25:PK:62:ARG:NH1	2.44	0.50
24:PP:66:ILE:HD12	24:PP:68:LEU:HD23	1.92	0.50
25:PQ:176:SER:OG	25:PQ:178:THR:O	2.29	0.50
28:Q0:1829:ASP:HB3	28:Q0:1832:TRP:HB3	1.93	0.50
24:QF:297:GLU:HG3	24:QF:299:ALA:H	1.76	0.50
24:QL:251:ASP:OD1	24:QL:252:ILE:N	2.44	0.50
25:QO:48:ASN:O	25:QO:62:ARG:NH2	2.44	0.50
25:RE:216:LYS:HB2	25:RE:275:SER:HB3	1.94	0.50
24:RF:53:PHE:HB3	24:RF:61:HIS:HB3	1.94	0.50
24:RL:286:LEU:O	24:RL:373:ARG:NH2	2.44	0.50
25:RM:375:GLN:HB3	25:RM:422:TYR:HD2	1.76	0.50
30:S0:92:GLU:OE2	25:WM:276:ARG:NH1	2.44	0.50
25:SE:207:LEU:HD11	25:SE:229:ILE:HD11	1.92	0.50
25:SM:3:GLU:HA	25:SM:49:VAL:HA	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:SO:396:HIS:HA	25:SO:399:THR:HG22	1.93	0.50
25:TE:135:VAL:HG21	25:TE:152:ILE:HD11	1.92	0.50
24:TH:132:LEU:O	24:TH:164:LYS:NZ	2.39	0.50
24:TP:128:ASN:OD1	24:UP:285:GLN:NE2	2.45	0.50
25:UE:67:ASP:OD1	25:UE:68:LEU:N	2.41	0.50
25:UE:204:ASN:ND2	46:UE:501:GDP:O2'	2.43	0.50
24:UL:8:HIS:HD1	24:UL:67:PHE:HE1	1.58	0.50
24:VP:292:THR:HG1	24:VP:319:TYR:HH	1.60	0.50
25:WG:63:ALA:O	25:WG:89:ASN:ND2	2.45	0.50
24:WL:317:LEU:HB3	24:WL:319:TYR:HE1	1.77	0.50
39:X0:928:THR:HA	39:X0:948:GLN:HA	1.93	0.50
25:XO:292:GLN:OE1	25:XO:298:ASN:ND2	2.44	0.50
40:Y4:79:VAL:HG12	40:Y4:154:LEU:HD22	1.93	0.50
40:Y4:355:ASN:OD1	40:Y4:356:ILE:N	2.44	0.50
24:YL:209:ILE:HG23	24:YL:230:LEU:HD11	1.93	0.50
25:YM:392:LYS:HG2	25:YM:395:LEU:HD13	1.92	0.50
41:Z3:415:VAL:HG12	41:Z3:455:ARG:HE	1.75	0.50
24:ZB:210:TYR:OH	25:ZC:327:ASP:OD2	2.29	0.50
24:ZD:102:ASN:HB3	24:ZD:105:ARG:HB2	1.93	0.50
24:ZD:265:ILE:HG22	24:ZD:380:ASN:HD21	1.77	0.50
25:ZK:19:LYS:NZ	25:ZK:227:HIS:HA	2.21	0.50
25:ZK:51:PHE:HB3	25:ZK:59:TYR:HB3	1.92	0.50
25:ZO:208:TYR:HE2	25:ZO:225:LEU:HD11	1.76	0.50
24:ZP:271:SER:HB2	24:ZP:377:MET:HB3	1.93	0.50
2:1B:2286:ARG:HD2	2:1B:2288:TRP:CZ2	2.46	0.50
2:1D:1908:VAL:HB	18:C3:1635:LEU:HD12	1.94	0.50
2:1D:2286:ARG:HD2	2:1D:2288:TRP:CZ2	2.47	0.50
14:8C:250:VAL:O	14:8C:255:ARG:NH2	2.44	0.50
17:B2:433:GLU:HA	17:B2:436:ARG:HG2	1.94	0.50
18:C1:1350:ILE:HD11	18:C1:1380:LEU:HD23	1.94	0.50
18:C2:842:ARG:NH2	43:C2:2001:ANP:O3'	2.39	0.50
19:D1:96:ASN:OD1	19:D1:97:ARG:N	2.45	0.50
19:D3:179:PRO:HA	19:D3:184:LYS:HE2	1.94	0.50
20:E0:48:THR:HA	20:E0:51:ARG:HG2	1.93	0.50
21:F1:21:ILE:HD11	24:VL:422:ARG:HB3	1.93	0.50
19:G3:265:GLU:HA	19:G3:268:LYS:HD3	1.92	0.50
19:J2:318:GLY:HA2	19:J2:362:GLN:NE2	2.27	0.50
19:J3:47:ARG:HG3	19:J3:84:ILE:HG22	1.93	0.50
19:J3:252:ILE:HA	19:J3:255:LYS:HE2	1.94	0.50
19:K2:287:GLN:HA	19:K2:290:VAL:HG22	1.94	0.50
19:L0:402:ARG:HG2	19:L0:405:LYS:HZ3	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L1:156:ASN:HB3	19:L1:159:LEU:HD23	1.94	0.50
19:L2:4:ARG:HH21	19:L2:7:LEU:HD22	1.77	0.50
24:ND:286:LEU:O	24:ND:373:ARG:NH2	2.45	0.50
25:NK:313:ALA:HB3	25:NK:349:VAL:HG12	1.93	0.50
25:NO:200:MET:HG2	25:NO:266:PHE:HB2	1.94	0.50
26:O1:396:LEU:HD13	26:O1:399:GLU:HG3	1.94	0.50
25:OE:19:LYS:HD3	25:OE:226:ASN:HB2	1.93	0.50
24:OF:76:ASP:OD1	24:OF:76:ASP:N	2.44	0.50
24:OF:211:ASP:HA	24:OF:214:ARG:HG2	1.93	0.50
25:OI:211:CYS:HA	25:OI:215:LEU:HB2	1.94	0.50
24:OL:101:ASN:OD1	25:OM:252:LYS:NZ	2.41	0.50
25:OM:14:ASN:ND2	25:OM:72:THR:OG1	2.43	0.50
25:PC:113:ILE:HG13	25:PC:150:LEU:HD22	1.94	0.50
25:PI:204:ASN:HA	25:PI:207:LEU:HD12	1.93	0.50
24:PJ:169:PHE:HZ	24:PJ:238:LEU:HD13	1.76	0.50
25:PO:246:LEU:HB2	25:PO:353:VAL:H	1.76	0.50
25:PQ:334:GLN:HE21	25:PQ:349:VAL:HG13	1.76	0.50
28:Q0:971:GLY:HA3	28:Q0:984:ILE:HA	1.94	0.50
28:Q0:1209:LEU:HA	28:Q0:1212:LEU:HD12	1.93	0.50
28:Q0:1630:ALA:HB3	28:Q0:1839:LEU:HD21	1.93	0.50
28:Q0:1637:ASP:HB3	28:Q0:1640:LEU:HD23	1.94	0.50
28:Q0:2358:VAL:HA	28:Q0:2361:GLU:HG2	1.93	0.50
28:Q1:2181:TRP:HZ3	28:Q1:2201:LEU:HD12	1.77	0.50
28:Q1:2560:LEU:HG	28:Q1:2597:LEU:HD21	1.93	0.50
25:QG:306:ARG:HA	25:QG:340:TYR:HE1	1.76	0.50
24:QH:316:CYS:HA	24:QH:352:LYS:HB3	1.94	0.50
25:QI:205:GLU:HA	25:QI:208:TYR:HB2	1.94	0.50
25:QK:289:LEU:HD11	25:QK:363:MET:HB3	1.94	0.50
24:QL:275:ILE:HG23	24:QL:368:LEU:HD21	1.93	0.50
24:QP:264:ARG:NH1	24:QP:431:ASP:OD2	2.44	0.50
24:RH:180:ALA:HB3	24:RH:183:GLU:HG3	1.94	0.50
24:RJ:226:ASN:ND2	24:RJ:367:ASP:OD2	2.45	0.50
24:RL:423:GLU:O	24:RL:427:ALA:N	2.33	0.50
24:SB:3:GLU:HG3	24:SB:129:CYS:HB2	1.94	0.50
24:SF:288:VAL:HG13	24:SF:319:TYR:HE2	1.77	0.50
24:SH:3:GLU:HA	24:SH:51:THR:HA	1.93	0.50
24:SJ:102:ASN:HB3	24:SJ:105:ARG:HB2	1.92	0.50
25:SM:236:ILE:HD12	25:SM:368:ILE:HD11	1.92	0.50
25:TI:396:HIS:HA	25:TI:399:THR:HG22	1.92	0.50
25:TK:170:VAL:HG22	25:TK:203:ASP:HB3	1.93	0.50
25:TO:86:ARG:HG3	25:TO:88:ASP:H	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:UB:223:THR:HB	25:UC:322:SER:HA	1.93	0.50
25:UE:7:ILE:HB	25:UE:135:VAL:HG12	1.94	0.50
24:UP:363:VAL:HG23	24:UP:366:GLY:HA3	1.94	0.50
24:VB:178:SER:OG	24:VB:180:ALA:O	2.29	0.50
25:VK:184:ASN:OD1	25:VK:398:TYR:OH	2.29	0.50
25:WA:190:HIS:HD2	25:WA:411:ALA:HA	1.76	0.50
39:X0:182:LEU:HD12	39:X0:188:LEU:HD11	1.93	0.50
39:X0:613:LYS:HG2	39:X0:615:ASN:H	1.77	0.50
39:X1:928:THR:HA	39:X1:948:GLN:HA	1.93	0.50
24:XB:254:GLU:O	24:XB:258:ASN:ND2	2.44	0.50
24:XH:298:PRO:HA	24:XH:301:MET:HG2	1.93	0.50
25:XK:164:MET:HG2	25:XK:196:ALA:HA	1.94	0.50
25:XM:3:GLU:HB3	25:XM:62:ARG:HH12	1.76	0.50
25:XO:105:HIS:HA	25:XO:150:LEU:HD12	1.94	0.50
40:Y2:338:ASP:OD1	40:Y2:362:ASP:N	2.43	0.50
40:Y5:252:GLU:HG2	40:Y5:447:ARG:HH21	1.77	0.50
25:YM:132:GLY:HA3	25:YM:163:MET:HB2	1.94	0.50
24:YP:9:ILE:HD13	24:YP:150:GLY:HA2	1.93	0.50
41:Z2:322:PRO:HA	41:Z2:325:LYS:HG2	1.94	0.50
25:ZK:171:PRO:HB3	25:ZK:181:GLU:HB3	1.92	0.50
24:ZN:105:ARG:HG3	24:ZN:411:GLU:HG3	1.94	0.50
25:ZO:33:THR:O	25:ZO:58:ARG:NH2	2.45	0.50
2:1A:2058:ARG:HA	18:C0:1585:ARG:HH22	1.77	0.50
2:1B:1252:SER:OG	43:1B:2602:ANP:O3G	2.27	0.50
2:1B:2060:LEU:HG	2:1B:2241:LEU:HD23	1.94	0.50
4:2B:190:LEU:HD21	25:PI:407:GLU:HG3	1.93	0.50
4:2B:328:PHE:HB2	4:2B:374:ALA:HB3	1.93	0.50
13:7I:98:GLN:HA	13:7I:115:TRP:O	2.12	0.50
14:8A:244:LEU:HB2	19:J3:39:GLN:HE22	1.77	0.50
16:A2:59:THR:HA	24:XH:112:LYS:NZ	2.27	0.50
17:B1:521:LYS:O	26:O1:366:ARG:NH1	2.45	0.50
18:C1:1214:LYS:HA	18:C1:1217:LEU:HB2	1.93	0.50
19:D0:199:PRO:HG3	19:D0:239:HIS:HB3	1.92	0.50
19:D0:203:GLN:HE22	27:P1:518:LYS:H	1.59	0.50
19:D5:77:GLU:HA	19:D5:80:VAL:HG12	1.94	0.50
19:D7:142:LYS:HB2	19:D7:183:LEU:HD11	1.94	0.50
19:D7:298:LEU:HD11	19:D7:313:GLY:HA2	1.91	0.50
19:H3:49:LEU:HA	19:H3:52:ASP:HB2	1.93	0.50
19:H3:72:SER:OG	19:H3:74:ASP:OD1	2.27	0.50
19:H7:139:PRO:HA	19:H7:142:LYS:HG2	1.93	0.50
19:J2:92:LEU:HD12	19:J2:129:SER:HB2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L1:260:LEU:O	19:L1:268:LYS:NZ	2.27	0.50
23:N1:134:SER:HB3	23:N1:137:PHE:HD1	1.76	0.50
25:NG:105:HIS:CE1	25:NG:150:LEU:HB2	2.46	0.50
24:NL:209:ILE:HA	24:NL:212:ILE:HG22	1.93	0.50
24:NL:259:LEU:HD11	24:NL:316:CYS:HB2	1.93	0.50
26:O1:268:ALA:O	26:O1:272:ILE:HG12	2.12	0.50
24:OF:265:ILE:HG22	24:OF:380:ASN:HD21	1.77	0.50
24:OL:175:PRO:HD3	24:OL:390:ARG:HH21	1.77	0.50
25:OQ:319:GLY:N	25:OQ:354:CYS:O	2.40	0.50
25:PC:171:PRO:HB2	25:PC:380:ARG:HH12	1.77	0.50
24:PD:53:PHE:HB3	24:PD:61:HIS:HB3	1.93	0.50
25:PI:31:ASP:HB3	25:PI:37:HIS:HD2	1.77	0.50
25:PI:174:LYS:HG2	25:PI:175:VAL:HG13	1.94	0.50
25:PO:22:GLU:HG2	25:PO:81:TYR:HB2	1.94	0.50
25:PQ:130:LEU:O	25:PQ:162:ARG:NE	2.45	0.50
25:PQ:237:THR:HB	25:PQ:240:LEU:HD12	1.94	0.50
28:Q0:842:GLU:HG3	28:Q0:846:LEU:HD23	1.93	0.50
28:Q0:2210:GLY:HA2	28:Q0:2304:LEU:HD21	1.93	0.50
28:Q0:2830:LEU:HD12	28:Q0:2833:LEU:HD13	1.93	0.50
28:Q1:3104:ARG:HA	28:Q1:3107:GLN:HG2	1.93	0.50
25:QI:67:ASP:OD2	25:QI:72:THR:OG1	2.29	0.50
24:QL:276:ILE:HD12	24:QL:281:ALA:HA	1.94	0.50
24:RH:60:LYS:NZ	24:SH:282:TYR:HB3	2.27	0.50
24:RL:319:TYR:HB2	24:RL:355:ILE:HG22	1.94	0.50
24:SD:188:VAL:HG22	24:SD:425:LEU:HD13	1.93	0.50
25:SE:190:HIS:NE2	25:SE:410:GLU:OE1	2.45	0.50
24:SF:85:GLN:N	24:SF:85:GLN:OE1	2.44	0.50
32:T2:517:ARG:HH22	24:YD:414:GLU:H	1.60	0.50
25:TG:65:LEU:HD13	25:TG:73:MET:HG3	1.94	0.50
24:TL:88:HIS:HE1	24:UL:280:LYS:HE3	1.77	0.50
24:TN:254:GLU:OE2	24:TN:352:LYS:NZ	2.44	0.50
24:UF:192:HIS:NE2	24:UF:420:GLU:OE1	2.45	0.50
24:UL:88:HIS:HB3	24:UL:91:GLN:HB2	1.92	0.50
24:UL:102:ASN:HD21	24:UL:411:GLU:HG3	1.77	0.50
24:UN:9:ILE:HG13	24:UN:68:LEU:HD21	1.94	0.50
24:VJ:217:LEU:HG	24:VJ:275:ILE:HG22	1.94	0.50
25:WA:208:TYR:HE2	24:WB:329:ASN:HD22	1.59	0.50
25:WC:396:HIS:HA	25:WC:399:THR:HG22	1.93	0.50
25:WE:4:ILE:HD11	25:WE:240:LEU:HD13	1.94	0.50
25:WE:86:ARG:HG2	25:WE:88:ASP:H	1.77	0.50
24:WJ:31:GLN:HG3	24:WJ:37:PRO:HD3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:WL:178:SER:OG	24:WL:180:ALA:O	2.30	0.50
25:XE:330:MET:HA	25:XE:333:VAL:HG12	1.93	0.50
25:XG:169:VAL:HG12	25:XG:202:LEU:HB2	1.94	0.50
24:XL:88:HIS:HA	25:YM:281:TYR:HD1	1.76	0.50
24:XN:33:ASP:HA	24:XN:85:GLN:HB2	1.93	0.50
40:Y0:93:LEU:HD22	40:Y0:109:ALA:HB2	1.93	0.50
40:Y1:405:LYS:HE3	40:Y1:411:VAL:HG23	1.94	0.50
25:YG:1:MET:H1	25:YG:46:ARG:HH21	1.59	0.50
24:YL:238:LEU:HD12	24:YL:239:THR:HG23	1.94	0.50
41:Z2:32:ASN:OD1	41:Z2:36:ASN:N	2.44	0.50
24:ZH:288:VAL:HG13	24:ZH:319:TYR:HE2	1.77	0.50
24:ZL:288:VAL:HG13	24:ZL:319:TYR:HE2	1.77	0.50
2:1B:1309:ARG:NH1	2:1B:1315:CYS:SG	2.85	0.50
2:1B:1425:VAL:HA	2:1B:1428:LEU:HB3	1.93	0.50
2:1B:2495:LYS:NZ	18:C1:1166:GLU:OE1	2.45	0.50
2:1D:2170:ALA:HB3	2:1D:2239:PHE:HE1	1.77	0.50
7:2L:156:GLU:HA	9:3L:155:ALA:HB3	1.94	0.50
19:D1:46:LEU:HA	19:D1:49:LEU:HD12	1.94	0.50
19:D1:210:ALA:O	19:D1:214:LEU:CB	2.60	0.50
19:D5:277:GLU:HA	19:D5:280:LYS:HZ3	1.77	0.50
19:D6:394:ASP:N	19:D6:394:ASP:OD1	2.45	0.50
19:D7:42:ALA:O	19:D7:46:LEU:HB2	2.11	0.50
19:D7:77:GLU:HA	19:D7:80:VAL:HG12	1.94	0.50
20:E1:335:LEU:HB2	23:N2:64:THR:HG22	1.93	0.50
19:G1:214:LEU:HD22	19:G1:229:VAL:HG22	1.94	0.50
19:G5:137:PHE:HD1	32:T2:329:GLY:HA2	1.77	0.50
19:H1:37:LEU:HD12	19:H1:42:ALA:HB2	1.94	0.50
19:H4:47:ARG:HD2	19:H4:84:ILE:HD11	1.94	0.50
19:H7:185:ARG:HB2	19:H7:224:LYS:HD2	1.93	0.50
19:L2:34:ILE:HG23	19:L2:68:LEU:HD13	1.94	0.50
23:N0:56:LEU:HA	23:N0:59:LYS:HB2	1.94	0.50
24:ND:210:TYR:HE1	24:ND:227:LEU:HD11	1.76	0.50
25:NE:313:ALA:HA	25:NE:369:GLY:HA2	1.94	0.50
25:NG:281:TYR:OH	25:ZG:83:GLN:O	2.27	0.50
25:NM:198:GLU:HA	25:NM:264:HIS:HD1	1.77	0.50
24:NN:143:GLY:O	24:NN:147:SER:N	2.42	0.50
24:OH:404:PHE:HZ	25:OI:312:THR:HG21	1.77	0.50
24:ON:318:MET:HB2	24:ON:376:CYS:HB3	1.93	0.50
24:PD:405:VAL:HG13	24:PD:418:PHE:HE2	1.77	0.50
24:PF:301:MET:HG3	24:PF:303:VAL:H	1.77	0.50
24:PH:276:ILE:HD12	24:PH:281:ALA:HA	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:PL:242:LEU:HD21	24:PL:251:ASP:HA	1.93	0.50
24:PP:313:MET:SD	24:PP:380:ASN:ND2	2.85	0.50
28:Q0:2668:LEU:HB3	28:Q0:2691:ALA:HB2	1.93	0.50
24:QH:292:THR:HG1	24:QH:319:TYR:HH	1.57	0.50
25:QI:176:SER:HB3	24:QJ:351:PHE:HD2	1.77	0.50
24:QJ:178:SER:HB2	25:QK:347:ASN:HD22	1.77	0.50
24:QL:274:PRO:HD3	24:QL:291:ILE:HG23	1.94	0.50
29:R0:164:ARG:NE	29:R0:201:ASP:OD2	2.45	0.50
25:RE:67:ASP:OD2	25:RE:72:THR:OG1	2.28	0.50
25:RI:208:TYR:HE2	24:RJ:329:ASN:HD22	1.59	0.50
24:RL:209:ILE:HG23	24:RL:230:LEU:HD11	1.93	0.50
25:SK:204:ASN:O	25:SK:208:TYR:N	2.39	0.50
24:TP:133:GLN:HB3	24:TP:252:ILE:HG21	1.94	0.50
24:TP:287:SER:HA	24:TP:373:ARG:HH11	1.77	0.50
24:UJ:259:LEU:HD23	24:UJ:268:MET:HG2	1.92	0.50
24:UP:8:HIS:HD1	24:UP:67:PHE:HE1	1.59	0.50
25:VC:191:GLN:O	25:VC:195:ASN:ND2	2.41	0.50
25:VE:282:ARG:HH21	25:VE:284:LEU:HD11	1.77	0.50
24:VN:230:LEU:HD22	24:VN:275:ILE:HD11	1.94	0.50
25:VO:66:MET:HE3	25:VO:151:LEU:HD22	1.94	0.50
24:WF:240:ALA:HA	24:WF:243:ARG:HE	1.77	0.50
25:WG:135:VAL:HG11	25:WG:152:ILE:HD11	1.93	0.50
24:WJ:275:ILE:HG13	24:WJ:368:LEU:HD21	1.94	0.50
25:XE:36:TYR:HB2	25:XE:59:TYR:HE2	1.77	0.50
24:XF:33:ASP:HA	24:XF:85:GLN:HB2	1.93	0.50
25:XM:99:ASN:ND2	24:XN:254:GLU:OE2	2.45	0.50
25:XM:113:ILE:HA	25:XM:116:VAL:HG12	1.94	0.50
24:XN:298:PRO:HB3	24:XN:307:PRO:HD2	1.93	0.50
40:Y2:173:TYR:OH	40:Y2:460:GLU:OE1	2.30	0.50
40:Y6:177:ALA:HB1	40:Y6:183:SER:HA	1.93	0.50
24:YD:255:PHE:HA	24:YD:259:LEU:HD13	1.93	0.50
24:YP:288:VAL:HG13	24:YP:319:TYR:HE2	1.75	0.50
24:ZF:15:GLN:NE2	44:ZF:501:GTP:O6	2.45	0.50
24:ZF:181:VAL:HG23	24:ZF:182:VAL:HG13	1.94	0.50
24:ZF:208:ALA:HB2	24:ZF:304:LYS:HG2	1.94	0.50
24:ZL:147:SER:HB2	24:ZL:190:SER:HB2	1.94	0.50
24:ZL:417:GLU:HA	24:ZL:420:GLU:HG3	1.94	0.50
2:1A:1244:LEU:HD11	2:1A:1326:PRO:HD2	1.94	0.49
2:1A:1611:THR:HG22	2:1A:1613:ARG:H	1.76	0.49
2:1C:2244:ASP:OD1	2:1C:2244:ASP:N	2.45	0.49
2:1D:2286:ARG:HD2	2:1D:2288:TRP:HZ2	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:8C:109:TYR:OH	25:VG:74:ASP:OD1	2.30	0.49
14:8D:72:ARG:HH12	24:WD:47:ASP:H	1.60	0.49
15:9B:1693:ALA:HA	15:9B:1783:LEU:HA	1.94	0.49
15:9C:1693:ALA:HA	15:9C:1783:LEU:HA	1.94	0.49
17:B1:668:GLU:HB3	17:B1:672:ARG:HH21	1.76	0.49
18:C1:401:VAL:HA	18:C1:404:GLU:HB3	1.93	0.49
18:C2:1358:VAL:HG22	18:C2:1386:LYS:HG3	1.93	0.49
18:C3:1346:LEU:O	18:C3:1350:ILE:HG12	2.12	0.49
43:C3:2001:ANP:N3B	43:C3:2001:ANP:O2A	2.45	0.49
19:D3:277:GLU:OE1	19:D3:280:LYS:NZ	2.30	0.49
19:D3:343:ALA:O	19:D3:353:LYS:NZ	2.44	0.49
19:D7:398:THR:HB	19:D7:402:ARG:NH1	2.27	0.49
19:G0:264:ASP:HB3	19:G0:267:VAL:HG22	1.94	0.49
19:G1:136:GLU:O	19:G1:142:LYS:NZ	2.36	0.49
19:G2:48:PRO:HB3	19:G3:48:PRO:HB2	1.93	0.49
19:G3:301:TYR:O	19:G3:305:SER:OG	2.23	0.49
19:G4:276:ARG:HG3	19:G4:280:LYS:HE3	1.94	0.49
19:H2:196:LYS:HA	19:H2:235:GLN:HB3	1.94	0.49
19:H4:405:LYS:O	19:H4:421:VAL:N	2.45	0.49
19:I1:54:VAL:HG11	19:I1:57:ILE:HD12	1.94	0.49
19:I1:329:LEU:HD13	19:I1:332:ILE:HD11	1.94	0.49
19:J0:153:ALA:HB2	19:J0:163:VAL:HG21	1.94	0.49
19:K1:290:VAL:HG21	19:K1:327:LEU:HG	1.93	0.49
19:L3:338:PRO:HA	19:L3:341:VAL:HG22	1.94	0.49
23:N2:18:LEU:HA	23:N2:21:VAL:HG22	1.93	0.49
23:N2:42:PHE:HZ	23:N3:20:GLN:HG3	1.76	0.49
25:NI:281:TYR:HE1	25:ZI:58:ARG:HH12	1.58	0.49
25:NM:252:LYS:O	25:NM:256:ASN:ND2	2.45	0.49
24:OF:178:SER:O	25:OG:347:ASN:ND2	2.44	0.49
24:ON:240:ALA:HA	24:ON:243:ARG:HE	1.77	0.49
25:PE:234:SER:O	25:PE:241:ARG:NH2	2.44	0.49
24:PL:192:HIS:HD2	24:PL:421:ALA:HA	1.75	0.49
25:PM:167:PHE:CE2	25:PM:233:MET:HG2	2.47	0.49
25:PO:289:LEU:HD21	25:PO:365:ALA:HB3	1.94	0.49
28:Q0:2166:LEU:HD11	28:Q0:2205:ALA:HA	1.94	0.49
28:Q1:835:PRO:O	28:Q1:837:ASN:N	2.44	0.49
28:Q1:2655:ASN:HD22	28:Q1:2658:LEU:HG	1.77	0.49
28:Q1:2830:LEU:HD12	28:Q1:2833:LEU:HD13	1.94	0.49
25:QC:337:ASN:ND2	31:S5:39:UNK:O	2.44	0.49
24:QJ:3:GLU:HA	24:QJ:51:THR:HA	1.94	0.49
24:RD:116:ASP:OD1	24:RD:117:LEU:N	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:RL:319:TYR:HB3	24:RL:323:VAL:HG21	1.93	0.49
25:RO:319:GLY:N	25:RO:354:CYS:O	2.43	0.49
30:S2:86:ASN:H	25:WE:276:ARG:NH1	2.09	0.49
25:SC:36:TYR:OH	25:SC:40:SER:O	2.29	0.49
25:SC:73:MET:HE1	25:SC:92:PHE:HB3	1.93	0.49
25:SC:203:ASP:OD1	25:SC:203:ASP:N	2.45	0.49
25:SK:48:ASN:O	25:SK:62:ARG:NH2	2.45	0.49
24:SP:101:ASN:HA	24:SP:144:GLY:H	1.76	0.49
32:T0:142:PHE:HA	32:T0:190:VAL:HA	1.94	0.49
25:TG:257:LEU:O	25:TG:370:ASN:ND2	2.40	0.49
25:TM:67:ASP:N	25:TM:67:ASP:OD1	2.45	0.49
24:UB:147:SER:HB2	24:UB:190:SER:HB2	1.94	0.49
25:UG:144:GLY:N	46:UG:501:GDP:O2B	2.41	0.49
24:VB:9:ILE:HD13	24:VB:150:GLY:HA2	1.94	0.49
25:VE:201:VAL:HG21	25:VE:374:ILE:HD11	1.94	0.49
24:VF:286:LEU:O	24:VF:373:ARG:NH1	2.45	0.49
24:VF:405:VAL:HG12	24:VF:409:VAL:HG23	1.93	0.49
24:VJ:273:ALA:HB3	24:VJ:375:VAL:H	1.77	0.49
25:WK:31:ASP:OD1	25:WK:35:THR:N	2.45	0.49
39:X1:270:LEU:HD11	39:X1:282:LEU:HD21	1.92	0.49
24:XF:133:GLN:HE22	24:XF:252:ILE:HB	1.76	0.49
25:XG:207:LEU:HD11	25:XG:229:ILE:HD11	1.94	0.49
24:XJ:213:CYS:HB2	25:XK:324:LYS:HZ1	1.76	0.49
40:Y1:175:HIS:O	40:Y1:179:LEU:N	2.44	0.49
40:Y5:113:ILE:HD12	40:Y5:117:ILE:HB	1.94	0.49
40:Y5:365:LEU:HD12	40:Y5:372:VAL:HG22	1.93	0.49
40:Y6:189:VAL:HG23	40:Y6:468:ALA:HB3	1.94	0.49
40:Y7:365:LEU:HD12	40:Y7:372:VAL:HG22	1.93	0.49
24:YB:50:ASN:O	24:YB:64:ARG:NH1	2.46	0.49
25:YC:330:MET:HB3	25:YC:349:VAL:HG11	1.93	0.49
25:YI:260:PHE:HB2	25:YI:263:LEU:HD13	1.94	0.49
25:YK:140:GLY:O	25:YK:184:ASN:ND2	2.45	0.49
25:YM:54:ALA:HB3	25:YM:58:ARG:HB3	1.94	0.49
25:YO:213:ARG:HH22	25:YO:297:LYS:HB3	1.77	0.49
41:Z3:54:ASP:OD1	41:Z3:55:ALA:N	2.45	0.49
25:ZC:4:ILE:HB	25:ZC:50:TYR:HE1	1.77	0.49
24:ZD:209:ILE:HG23	24:ZD:230:LEU:HD11	1.94	0.49
2:1B:2056:ALA:HB1	2:1B:2096:ASP:HB3	1.94	0.49
2:1C:909:TYR:O	2:1C:982:ASP:N	2.44	0.49
2:1D:2269:PRO:HB3	2:1D:2274:GLY:HA2	1.94	0.49
14:8C:94:TYR:CZ	14:8C:98:ARG:HD2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:A1:59:THR:HG21	24:XL:108:TYR:HA	1.93	0.49
17:B2:304:ARG:NH2	24:QF:423:GLU:OE1	2.45	0.49
18:C1:1381:LEU:HD23	18:C1:1455:LEU:HD11	1.94	0.49
18:C1:1902:MET:HG3	18:C1:1911:VAL:HG11	1.93	0.49
19:D0:95:GLN:HB3	19:D0:99:TYR:CD2	2.47	0.49
19:D4:301:TYR:O	19:D4:305:SER:HB2	2.12	0.49
19:G1:195:SER:HB3	19:G1:205:VAL:HG21	1.93	0.49
19:G4:245:GLU:HA	19:G4:248:VAL:HG22	1.94	0.49
19:G5:134:LEU:O	19:G5:142:LYS:NZ	2.35	0.49
19:H1:270:HIS:O	19:H1:273:THR:OG1	2.24	0.49
19:H3:287:GLN:HA	19:H3:290:VAL:HG22	1.94	0.49
19:H4:217:LEU:HB3	19:H4:225:LEU:HD21	1.94	0.49
19:H5:85:LEU:HD23	19:H5:88:LEU:HD21	1.93	0.49
19:I1:387:GLU:HG3	19:I1:398:THR:HG21	1.92	0.49
19:I1:405:LYS:HD3	19:I1:449:ALA:HB2	1.94	0.49
19:J1:181:LEU:O	19:J1:185:ARG:HG2	2.11	0.49
19:J1:218:VAL:HB	19:J1:255:LYS:HD2	1.94	0.49
19:J3:210:ALA:O	19:J3:214:LEU:HB2	2.11	0.49
19:K0:181:LEU:HA	19:K0:184:LYS:HZ3	1.76	0.49
19:K2:235:GLN:HA	19:K2:238:LYS:HG2	1.94	0.49
19:L3:92:LEU:O	19:L3:100:LYS:NZ	2.32	0.49
24:NH:70:LEU:HD12	24:NH:145:THR:HG22	1.94	0.49
25:NI:283:ALA:HB2	25:ZI:54:ALA:HA	1.95	0.49
25:NI:316:LEU:HB2	25:NI:366:THR:HB	1.93	0.49
24:NN:217:LEU:HG	24:NN:275:ILE:HG22	1.93	0.49
24:OD:47:ASP:OD1	24:OD:47:ASP:N	2.46	0.49
24:OD:192:HIS:NE2	24:OD:420:GLU:OE1	2.45	0.49
25:OE:342:VAL:HG12	25:OE:345:ILE:H	1.77	0.49
25:PG:204:ASN:HA	25:PG:207:LEU:HD12	1.95	0.49
24:PH:339:ARG:O	24:PH:342:GLN:NE2	2.45	0.49
24:PL:168:GLY:O	24:PL:202:VAL:N	2.38	0.49
24:PN:70:LEU:HD12	24:PN:145:THR:HG22	1.94	0.49
24:PN:130:THR:OG1	24:PN:131:GLY:N	2.45	0.49
28:Q1:1618:GLU:HA	28:Q1:1621:ASN:HB2	1.94	0.49
25:QC:156:ARG:HD3	25:QC:160:PRO:HA	1.94	0.49
25:QC:384:GLN:HE22	24:QD:348:PRO:HB2	1.77	0.49
24:QD:161:TYR:O	33:U0:68:ARG:NH2	2.41	0.49
24:QF:70:LEU:HD12	24:QF:145:THR:HG22	1.94	0.49
24:QF:251:ASP:OD1	24:QF:252:ILE:N	2.45	0.49
24:QH:101:ASN:OD1	25:QI:252:LYS:NZ	2.34	0.49
25:QO:7:ILE:HB	25:QO:135:VAL:HG12	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:QQ:210:ILE:HD13	25:QQ:298:ASN:HA	1.94	0.49
24:RL:71:GLU:HB2	24:RL:98:ASP:HB3	1.93	0.49
24:RL:222:PRO:O	25:RM:324:LYS:NZ	2.45	0.49
25:RM:396:HIS:HA	25:RM:399:THR:HG22	1.94	0.49
25:RO:20:PHE:HA	25:RO:230:SER:HB2	1.94	0.49
24:RP:57:GLY:N	24:SP:285:GLN:OE1	2.45	0.49
30:S1:46:ARG:HH21	24:XJ:245:ASP:HB3	1.76	0.49
25:SC:19:LYS:NZ	25:SC:223:GLY:O	2.45	0.49
25:TK:132:GLY:HA3	25:TK:163:MET:HB3	1.94	0.49
24:TL:251:ASP:OD1	24:TL:252:ILE:N	2.46	0.49
25:TM:3:GLU:HA	25:TM:49:VAL:HA	1.94	0.49
25:UG:112:LEU:HD12	25:UG:115:SER:HB2	1.93	0.49
25:UK:167:PHE:HA	25:UK:200:MET:HB2	1.92	0.49
24:UN:62:VAL:HG11	24:VN:283:HIS:HB3	1.93	0.49
25:VI:45:GLU:OE2	25:VI:46:ARG:NH2	2.45	0.49
24:VP:194:LEU:O	24:VP:198:THR:OG1	2.27	0.49
25:WC:7:ILE:HB	25:WC:135:VAL:HG12	1.94	0.49
25:WE:184:ASN:OD1	25:WE:398:TYR:OH	2.25	0.49
25:WE:421:GLU:HA	25:WE:424:GLN:HB3	1.95	0.49
44:WJ:501:GTP:O3G	25:WK:252:LYS:NZ	2.45	0.49
24:WN:352:LYS:NZ	24:WN:353:CYS:O	2.45	0.49
24:XB:214:ARG:HH22	25:XC:324:LYS:HD2	1.77	0.49
24:XJ:132:LEU:HD22	24:XJ:164:LYS:HZ3	1.76	0.49
24:XJ:217:LEU:HD11	24:XJ:275:ILE:HG22	1.94	0.49
40:Y0:56:ILE:HA	40:Y0:62:PRO:HA	1.94	0.49
40:Y1:81:SER:OG	40:Y1:94:ARG:NH2	2.45	0.49
40:Y2:189:VAL:H	40:Y2:436:GLN:HA	1.77	0.49
40:Y2:317:LYS:HD3	40:Y2:347:PRO:HB3	1.94	0.49
40:Y6:422:ASP:OD1	40:Y6:423:SER:N	2.44	0.49
40:Y7:365:LEU:HD21	40:Y7:381:VAL:HG21	1.95	0.49
40:Y7:387:LYS:HD3	40:Y7:416:ARG:HD2	1.94	0.49
24:YB:269:LEU:N	24:YB:379:SER:O	2.44	0.49
25:YE:314:SER:HB3	25:YE:368:ILE:HB	1.94	0.49
24:YL:137:VAL:HB	24:YL:168:GLY:HA2	1.94	0.49
25:YO:239:CYS:HB3	25:YO:248:ALA:H	1.78	0.49
25:ZI:97:ALA:HA	25:ZI:103:LYS:HG2	1.94	0.49
25:ZM:107:THR:OG1	25:ZM:108:GLU:OE1	2.30	0.49
24:ZN:287:SER:N	24:ZN:290:GLU:OE2	2.43	0.49
2:1C:2269:PRO:HB3	2:1C:2274:GLY:HA2	1.94	0.49
2:1D:1242:MET:HG3	2:1D:1322:LEU:HB3	1.93	0.49
13:7A:96:ALA:HB1	13:7A:117:ALA:HA	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:B1:681:GLU:HA	17:B1:684:THR:HG22	1.94	0.49
18:C2:1304:ASN:HA	18:C2:1307:ARG:HG2	1.93	0.49
18:C2:1778:ASP:OD1	18:C2:1920:TRP:N	2.44	0.49
19:D5:137:PHE:O	19:D5:142:LYS:NZ	2.45	0.49
19:D7:224:LYS:HA	19:D7:227:ARG:HG2	1.94	0.49
20:E1:424:THR:O	20:E1:429:LYS:N	2.37	0.49
19:G0:95:GLN:HB3	19:G0:99:TYR:HD2	1.77	0.49
19:G1:364:GLY:HA2	19:G1:370:HIS:HD2	1.76	0.49
19:G3:137:PHE:HD1	32:T1:329:GLY:HA2	1.76	0.49
19:I1:85:LEU:HD21	19:I1:110:VAL:HG11	1.94	0.49
19:J0:214:LEU:HD13	19:J0:217:LEU:HD12	1.92	0.49
19:J1:111:ALA:HB2	19:J1:121:VAL:HG21	1.95	0.49
19:K1:401:ARG:HH12	19:K1:402:ARG:CZ	2.25	0.49
19:K2:55:PRO:HB2	25:SE:406:MET:SD	2.52	0.49
25:OC:204:ASN:OD1	46:OC:501:GDP:O2'	2.25	0.49
25:OI:293:MET:SD	25:OI:367:PHE:HB2	2.51	0.49
24:PD:306:ASP:OD1	24:PD:308:ARG:NE	2.38	0.49
25:PG:144:GLY:N	46:PG:501:GDP:O2B	2.44	0.49
25:PK:323:THR:HA	25:PK:326:VAL:HG12	1.93	0.49
24:PL:194:LEU:O	24:PL:198:THR:OG1	2.25	0.49
25:QI:128:ASP:OD1	25:QI:128:ASP:N	2.44	0.49
24:QN:274:PRO:HD3	24:QN:291:ILE:HD12	1.94	0.49
30:S0:139:ILE:HG21	24:UN:45:GLY:HA3	1.93	0.49
25:SC:7:ILE:HD13	25:SC:151:LEU:HD21	1.93	0.49
25:SC:396:HIS:HA	25:SC:399:THR:HG22	1.94	0.49
25:SE:208:TYR:CZ	24:SF:326:LYS:HG2	2.48	0.49
24:SF:259:LEU:HD21	24:SF:316:CYS:HB2	1.94	0.49
25:SI:28:HIS:NE2	25:SI:241:ARG:HD2	2.27	0.49
25:SK:135:VAL:HG21	25:SK:152:ILE:HD11	1.93	0.49
25:SK:319:GLY:N	25:SK:354:CYS:O	2.40	0.49
24:SL:268:MET:SD	24:SL:380:ASN:ND2	2.85	0.49
24:SN:16:VAL:O	24:SN:20:CYS:N	2.46	0.49
25:SO:220:PRO:HD2	24:SP:326:LYS:HB2	1.95	0.49
25:TC:203:ASP:OD2	25:TC:302:ALA:N	2.45	0.49
24:TD:88:HIS:HD2	24:TD:91:GLN:HG3	1.78	0.49
25:TE:139:LEU:HD12	25:TE:170:VAL:HG12	1.92	0.49
24:TF:6:SER:HA	24:TF:136:LEU:HB2	1.94	0.49
25:TO:176:SER:OG	25:TO:178:THR:O	2.30	0.49
24:UD:298:PRO:HB3	24:UD:307:PRO:HD2	1.93	0.49
25:UG:329:GLN:HA	25:UG:332:ASN:HB2	1.94	0.49
24:UP:396:ASP:OD1	24:UP:422:ARG:NH2	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:VC:22:GLU:HG2	25:VC:81:TYR:HD1	1.78	0.49
24:VJ:2:ARG:NE	24:VJ:242:LEU:O	2.37	0.49
24:VN:242:LEU:HD11	24:VN:252:ILE:HG12	1.93	0.49
25:VO:20:PHE:HA	25:VO:230:SER:HB2	1.95	0.49
24:WB:414:GLU:HG2	24:WB:416:GLY:H	1.76	0.49
25:WC:98:GLY:O	24:WD:257:THR:OG1	2.23	0.49
25:WC:131:GLN:HE21	25:WC:250:LEU:HB3	1.77	0.49
25:WE:11:GLN:HA	25:WE:72:THR:HG21	1.93	0.49
25:WG:301:CYS:SG	25:WG:302:ALA:N	2.85	0.49
25:WI:49:VAL:HG21	25:WI:241:ARG:HG2	1.95	0.49
39:X2:149:SER:HA	39:X2:171:ALA:H	1.77	0.49
25:XG:252:LYS:O	25:XG:256:ASN:ND2	2.44	0.49
24:XJ:133:GLN:HG2	24:XJ:242:LEU:HD21	1.94	0.49
40:Y4:391:ILE:HG23	40:Y4:393:THR:H	1.78	0.49
40:Y6:367:THR:HG22	40:Y6:390:GLN:HB2	1.93	0.49
25:YG:25:SER:O	25:YG:29:GLY:N	2.44	0.49
25:YI:272:PRO:HG3	25:YI:364:SER:HA	1.95	0.49
24:YL:320:ARG:HD2	24:YL:360:PRO:HG3	1.94	0.49
25:YO:416:ASN:HA	25:YO:419:VAL:HG12	1.93	0.49
25:ZI:205:GLU:HA	25:ZI:208:TYR:HB2	1.93	0.49
25:ZO:7:ILE:O	25:ZO:135:VAL:HA	2.11	0.49
2:1A:1597:LEU:HD21	2:1A:1606:LEU:HB2	1.94	0.49
2:1A:2193:THR:HG22	2:1A:2240:ALA:HB3	1.93	0.49
2:1B:2175:PRO:HD3	2:1B:2262:ASP:HB2	1.93	0.49
17:B1:309:ASP:OD1	17:B1:310:LYS:N	2.45	0.49
17:B2:356:ARG:HA	17:B2:359:GLN:HB2	1.93	0.49
18:C1:795:LEU:HD13	18:C1:813:VAL:HA	1.94	0.49
18:C1:853:HIS:HB3	18:C1:856:PHE:HB2	1.94	0.49
18:C3:916:PRO:HD2	18:C3:919:GLU:HB3	1.93	0.49
18:C3:1221:PHE:HA	18:C3:1224:THR:HG22	1.93	0.49
19:D3:11:GLU:OE1	19:D3:15:LYS:NZ	2.45	0.49
19:D6:224:LYS:HA	19:D6:227:ARG:HG2	1.94	0.49
20:E3:347:LEU:O	20:E3:351:ARG:HG2	2.12	0.49
19:H5:114:SER:OG	19:H5:116:GLU:OE1	2.31	0.49
19:I1:149:LEU:HD21	19:I1:168:ALA:HB1	1.94	0.49
19:K0:348:PRO:HD2	19:K0:353:LYS:HE3	1.95	0.49
19:L1:185:ARG:HD3	19:L1:224:LYS:HB2	1.94	0.49
23:N3:139:ARG:HD2	23:N3:140:ARG:HG2	1.93	0.49
25:NC:201:VAL:HG21	25:NC:374:ILE:HD11	1.94	0.49
25:NC:221:THR:HG23	25:NC:223:GLY:H	1.78	0.49
25:NE:237:THR:HG22	25:NE:250:LEU:HD21	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:NG:16:ILE:HD11	25:NG:229:ILE:HG21	1.94	0.49
25:NK:63:ALA:O	25:NK:89:ASN:ND2	2.41	0.49
25:NK:139:LEU:HG	25:NK:168:SER:HB2	1.94	0.49
25:NO:7:ILE:HB	25:NO:135:VAL:HG12	1.94	0.49
25:NO:207:LEU:HD11	25:NO:229:ILE:HD11	1.94	0.49
25:OE:324:LYS:O	25:OE:328:GLU:N	2.36	0.49
25:OI:285:THR:HG22	25:OI:287:PRO:HD2	1.93	0.49
25:OK:294:TRP:CD1	25:OK:333:VAL:HG21	2.47	0.49
24:PF:242:LEU:HD11	24:PF:252:ILE:HG12	1.95	0.49
25:PG:304:ASP:OD2	25:PG:306:ARG:NH2	2.45	0.49
24:PH:93:ILE:HD11	24:PH:121:ARG:HG3	1.94	0.49
28:Q0:951:CYS:HB2	28:Q0:984:ILE:HD13	1.93	0.49
28:Q0:2974:LEU:HD12	28:Q0:2980:ALA:HB1	1.94	0.49
28:Q1:141:ASP:OD1	28:Q1:144:GLN:NE2	2.43	0.49
28:Q1:2278:LEU:HD12	28:Q1:2282:VAL:HG11	1.95	0.49
25:QE:290:THR:HG21	25:QE:329:GLN:HB3	1.94	0.49
24:QH:288:VAL:HG13	24:QH:319:TYR:HE2	1.76	0.49
24:QJ:384:ILE:HA	24:QJ:387:ILE:HD12	1.93	0.49
25:QK:391:ARG:HH22	24:QL:438:GLU:HA	1.78	0.49
24:QN:2:ARG:HG2	24:QN:242:LEU:HD22	1.95	0.49
25:RG:215:LEU:HD11	25:RG:228:LEU:HD21	1.94	0.49
25:RG:313:ALA:HB3	25:RG:349:VAL:HG22	1.95	0.49
25:RM:409:THR:HG22	33:U1:197:LEU:HD13	1.95	0.49
24:RN:7:ILE:HD11	24:RN:137:VAL:HG22	1.94	0.49
25:RO:205:GLU:HA	25:RO:208:TYR:HD1	1.76	0.49
30:S0:38:LYS:HZ1	25:XM:77:ARG:NH2	2.08	0.49
24:SB:50:ASN:O	24:SB:64:ARG:NH1	2.43	0.49
24:SH:170:THR:HG21	24:SH:194:LEU:HD21	1.94	0.49
25:TO:253:LEU:HD21	25:TO:316:LEU:HD21	1.95	0.49
25:UC:211:CYS:HA	25:UC:215:LEU:HD12	1.95	0.49
24:UF:288:VAL:HG13	24:UF:319:TYR:HE2	1.76	0.49
25:UO:213:ARG:HD2	25:UO:297:LYS:HD2	1.94	0.49
25:UO:414:ASN:O	25:UO:418:LEU:N	2.41	0.49
24:VD:210:TYR:HE1	24:VD:227:LEU:HD11	1.77	0.49
24:VF:55:GLU:HG3	24:VF:62:VAL:HB	1.94	0.49
25:VO:14:ASN:ND2	25:VO:72:THR:OG1	2.46	0.49
25:WC:204:ASN:OD1	46:WC:501:GDP:O2'	2.28	0.49
25:WI:135:VAL:HG11	25:WI:152:ILE:HD11	1.94	0.49
24:WJ:56:THR:HG22	24:XJ:285:GLN:HB2	1.95	0.49
25:WK:139:LEU:HD12	25:WK:170:VAL:HG12	1.94	0.49
24:WL:278:ALA:HA	24:WL:369:ALA:HB2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:WN:138:PHE:HZ	24:WN:235:ILE:HG21	1.78	0.49
39:X0:156:LEU:HD21	39:X0:178:VAL:HA	1.93	0.49
39:X0:384:LEU:HD23	39:X0:488:ARG:HH11	1.77	0.49
24:XD:240:ALA:HB2	24:XD:243:ARG:HH21	1.77	0.49
24:XF:154:LEU:O	24:XF:166:LYS:NZ	2.46	0.49
24:XJ:305:CYS:HB2	24:XJ:387:ILE:HD11	1.94	0.49
25:XM:7:ILE:HB	25:XM:135:VAL:HG12	1.93	0.49
40:Y5:57:ASP:OD1	40:Y5:61:ASN:N	2.45	0.49
40:Y5:93:LEU:HD11	40:Y5:108:LYS:HD2	1.94	0.49
40:Y5:427:ASP:OD1	40:Y5:427:ASP:N	2.46	0.49
24:YH:182:VAL:HG23	24:YH:186:ASN:HD21	1.78	0.49
24:YH:234:VAL:O	24:YH:237:SER:OG	2.31	0.49
24:ZB:31:GLN:OE1	24:ZB:32:PRO:HD2	2.13	0.49
2:1B:1673:LEU:HD23	2:1B:1676:THR:HG21	1.94	0.49
13:7C:31:ALA:HA	13:7C:82:ARG:O	2.13	0.49
16:A1:175:THR:OG1	24:YJ:423:GLU:OE2	2.22	0.49
17:B2:401:ARG:HA	17:B2:404:GLU:HG3	1.93	0.49
18:C0:845:ASP:OD1	18:C0:847:GLN:NE2	2.45	0.49
18:C1:416:ARG:CZ	18:C1:419:ARG:HH12	2.24	0.49
18:C3:353:LYS:HD3	21:F3:102:PHE:CE2	2.48	0.49
19:D3:337:LEU:HB3	19:D3:377:THR:HG21	1.93	0.49
20:E2:104:ILE:HG22	20:E2:109:ARG:HE	1.77	0.49
20:E2:425:GLY:HA2	20:E2:429:LYS:HB2	1.94	0.49
21:F1:26:GLN:O	21:F1:60:ARG:NH2	2.46	0.49
19:G3:270:HIS:HA	19:G3:273:THR:HG22	1.94	0.49
19:H2:144:ALA:HA	19:H2:147:TRP:HD1	1.78	0.49
19:H2:237:ALA:HB2	19:H2:247:VAL:HG21	1.94	0.49
19:H4:211:VAL:HA	19:H4:214:LEU:HG	1.94	0.49
19:H5:52:ASP:OD1	19:H5:53:ASN:N	2.43	0.49
19:H5:135:GLU:HG2	19:H5:171:LEU:HD11	1.95	0.49
19:I0:161:GLN:HG3	19:I0:201:LEU:HD11	1.94	0.49
19:J3:268:LYS:HB3	19:J3:301:TYR:CE1	2.47	0.49
19:J3:273:THR:HA	19:J3:276:ARG:HE	1.77	0.49
19:K0:398:THR:HB	19:K0:402:ARG:HH12	1.76	0.49
19:L0:451:PHE:HD1	19:L0:499:LEU:HD11	1.76	0.49
22:M0:879:GLU:HB3	22:M0:924:TYR:HA	1.93	0.49
22:M1:196:PRO:HB2	22:M1:199:GLY:HA3	1.94	0.49
23:N1:56:LEU:HA	23:N1:59:LYS:HB2	1.93	0.49
25:NG:31:ASP:OD1	25:NG:35:THR:OG1	2.30	0.49
25:NI:272:PRO:HG2	25:NI:361:LEU:HD13	1.95	0.49
25:NM:66:MET:HE1	25:NM:147:MET:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:OC:219:THR:HB	24:OD:324:VAL:HG11	1.93	0.49
25:OM:309:ARG:HH21	25:OM:343:GLU:HG2	1.77	0.49
24:ON:310:GLY:HA3	24:ON:383:ALA:HB2	1.94	0.49
24:PH:51:THR:HG21	24:PH:243:ARG:HG3	1.94	0.49
24:PH:254:GLU:O	24:PH:258:ASN:ND2	2.45	0.49
28:Q0:2520:VAL:HG13	28:Q0:2532:VAL:HG13	1.94	0.49
28:Q1:1068:TRP:HH2	28:Q1:2749:SER:HA	1.77	0.49
28:Q1:1342:LEU:HD13	28:Q1:1357:VAL:HG22	1.94	0.49
25:QE:191:GLN:O	25:QE:195:ASN:ND2	2.42	0.49
24:QF:9:ILE:HD11	24:QF:153:LEU:HD23	1.94	0.49
25:QI:186:THR:HG23	25:QI:415:MET:HG3	1.93	0.49
25:QI:397:TRP:HE1	24:QJ:260:VAL:HG23	1.77	0.49
25:QK:207:LEU:HD11	25:QK:229:ILE:HD11	1.93	0.49
25:QK:290:THR:HG21	25:QK:329:GLN:HB3	1.93	0.49
24:RD:387:ILE:HG13	24:RD:388:PHE:HD2	1.78	0.49
24:RF:205:ASP:HB3	24:RF:303:VAL:HA	1.94	0.49
25:RG:68:LEU:HB2	25:RG:143:THR:HG23	1.94	0.49
25:RI:198:GLU:HA	25:RI:264:HIS:HB2	1.94	0.49
24:RJ:85:GLN:O	24:SJ:283:HIS:NE2	2.44	0.49
30:S0:109:GLN:HG2	25:VM:77:ARG:HH12	1.77	0.49
30:S2:88:ILE:HG12	25:WE:227:HIS:HE1	1.77	0.49
30:S3:12:LEU:HG	25:YC:227:HIS:CE1	2.48	0.49
25:SG:213:ARG:HD3	25:SG:297:LYS:NZ	2.27	0.49
25:SI:210:ILE:HD13	25:SI:298:ASN:HA	1.95	0.49
25:SM:163:MET:HB3	25:SM:250:LEU:HD22	1.95	0.49
25:TC:296:ALA:HB3	25:TC:306:ARG:HH11	1.77	0.49
25:UE:69:GLU:HB2	24:UF:2:ARG:HH21	1.78	0.49
24:UF:65:CYS:SG	24:UF:66:ILE:N	2.86	0.49
25:UK:391:ARG:HH22	24:UL:435:VAL:HA	1.78	0.49
25:UO:406:MET:O	25:UO:409:THR:N	2.44	0.49
24:VL:288:VAL:HG13	24:VL:319:TYR:HE2	1.77	0.49
24:VN:168:GLY:O	24:VN:202:VAL:N	2.41	0.49
25:WE:99:ASN:ND2	24:WF:254:GLU:OE1	2.46	0.49
24:WJ:222:PRO:O	25:WK:322:SER:OG	2.31	0.49
24:WN:179:THR:OG1	44:WN:501:GTP:O3'	2.30	0.49
24:XF:73:THR:OG1	25:XG:247:ASN:ND2	2.45	0.49
25:XK:114:ASP:OD1	25:XK:114:ASP:N	2.46	0.49
40:Y7:302:LEU:HB2	40:Y7:313:GLN:HG3	1.94	0.49
25:YE:130:LEU:HB2	25:YE:162:ARG:HE	1.77	0.49
24:YH:130:THR:OG1	24:YH:131:GLY:N	2.45	0.49
24:YL:175:PRO:O	24:YL:394:LYS:NZ	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:YO:180:VAL:HG23	25:YO:184:ASN:HD21	1.78	0.49
24:YP:180:ALA:N	24:YP:183:GLU:OE2	2.41	0.49
25:ZE:201:VAL:HG21	25:ZE:374:ILE:HD11	1.95	0.49
25:ZG:313:ALA:HB1	25:ZG:367:PHE:HE1	1.78	0.49
24:ZH:93:ILE:HD11	24:ZH:121:ARG:HG3	1.95	0.49
25:ZO:135:VAL:HG21	25:ZO:152:ILE:HD11	1.95	0.49
14:8A:111:ARG:O	24:VP:47:ASP:N	2.46	0.49
17:B1:530:THR:HB	17:B1:544:LEU:HB2	1.95	0.49
18:C1:1663:SER:OG	18:C1:1664:GLN:N	2.46	0.49
19:D0:298:LEU:HD11	19:D0:316:ALA:HB1	1.93	0.49
19:D1:21:VAL:HG21	19:D1:57:ILE:HG23	1.94	0.49
19:D4:383:LEU:HA	19:D4:386:LEU:HG	1.94	0.49
21:F3:39:LEU:HD23	21:F3:280:ALA:HB2	1.92	0.49
19:G3:195:SER:O	19:G3:239:HIS:NE2	2.44	0.49
19:H1:97:ARG:HA	19:H1:100:LYS:HG2	1.94	0.49
19:H5:25:ALA:HB1	19:H5:63:LEU:HD11	1.94	0.49
19:J1:272:ALA:HB1	19:J1:312:PRO:HB2	1.95	0.49
19:J3:181:LEU:O	19:J3:185:ARG:HG2	2.12	0.49
24:ND:9:ILE:HG13	24:ND:68:LEU:HD21	1.94	0.49
25:NG:259:PRO:HG2	25:NG:311:LEU:HD23	1.95	0.49
25:NG:271:THR:HG23	25:NG:293:MET:HB2	1.94	0.49
25:NI:65:LEU:HD22	25:NI:90:PHE:HE1	1.77	0.49
24:NL:407:TRP:HZ2	25:NM:258:ILE:HD12	1.78	0.49
25:NM:22:GLU:HA	25:NM:81:TYR:HD2	1.78	0.49
24:NN:298:PRO:HB3	24:NN:307:PRO:HD2	1.93	0.49
24:NN:335:ILE:HG23	24:NN:341:ILE:HD13	1.93	0.49
24:ON:112:LYS:HA	24:ON:115:VAL:HG12	1.95	0.49
24:OP:229:ARG:HD3	24:OP:363:VAL:HG11	1.94	0.49
25:PK:208:TYR:HE2	25:PK:225:LEU:HD11	1.78	0.49
25:PO:11:GLN:HE22	25:PO:15:GLN:HE21	1.60	0.49
25:QK:32:PRO:HD3	25:QK:81:TYR:HE1	1.77	0.49
24:RL:94:SER:OG	24:RL:95:GLY:N	2.45	0.49
25:RM:216:LYS:HB2	25:RM:275:SER:HB3	1.95	0.49
24:RN:127:ASP:OD2	24:SN:293:ASN:ND2	2.45	0.49
30:S0:27:GLU:O	25:YO:320:ARG:NH2	2.45	0.49
25:SE:16:ILE:HD11	25:SE:229:ILE:HB	1.94	0.49
24:SF:55:GLU:O	24:TF:285:GLN:NE2	2.42	0.49
24:SF:311:LYS:N	24:SF:382:THR:OG1	2.43	0.49
24:SH:155:GLU:HG2	24:SH:197:HIS:CE1	2.48	0.49
24:SN:168:GLY:N	24:SN:200:VAL:O	2.37	0.49
25:SO:49:VAL:HG21	25:SO:241:ARG:HG2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:TI:307:HIS:ND1	25:TI:376:GLU:OE1	2.36	0.49
25:UK:91:VAL:HG11	25:UK:116:VAL:HG12	1.95	0.49
24:UL:309:HIS:ND1	24:UL:386:GLU:OE2	2.46	0.49
24:VB:158:SER:OG	24:VB:166:LYS:NZ	2.40	0.49
24:VF:20:CYS:SG	24:VF:21:TRP:N	2.85	0.49
24:VF:73:THR:HA	25:VG:46:ARG:HH21	1.78	0.49
25:VI:271:THR:O	25:VI:273:LEU:N	2.46	0.49
24:VJ:274:PRO:HD2	24:VJ:374:ALA:HA	1.94	0.49
25:VM:156:ARG:HD3	25:VM:164:MET:HG2	1.94	0.49
25:WA:49:VAL:HG21	25:WA:241:ARG:HG2	1.94	0.49
25:WC:272:PRO:HG3	25:WC:364:SER:HA	1.93	0.49
24:WD:219:ILE:HG22	24:WD:221:ARG:H	1.77	0.49
24:WD:429:GLU:O	24:WD:433:GLU:HG2	2.11	0.49
25:WO:139:LEU:HD12	25:WO:170:VAL:HG12	1.93	0.49
39:X0:156:LEU:HD12	39:X0:175:LEU:HD12	1.94	0.49
39:X1:169:SER:HB2	39:X1:192:ASP:HB3	1.94	0.49
25:XA:31:ASP:OD1	25:XA:35:THR:N	2.45	0.49
25:XA:86:ARG:NH2	25:XA:88:ASP:OD2	2.45	0.49
24:XF:9:ILE:HG13	24:XF:68:LEU:HD21	1.94	0.49
24:XF:298:PRO:HA	24:XF:301:MET:HG2	1.95	0.49
24:XJ:210:TYR:O	25:XK:324:LYS:NZ	2.45	0.49
24:XL:319:TYR:HB3	24:XL:323:VAL:HG21	1.94	0.49
25:XM:282:ARG:NH1	25:XM:288:GLU:OE1	2.46	0.49
40:Y1:401:VAL:HG11	40:Y1:432:LEU:HD22	1.95	0.49
24:YF:205:ASP:HB3	24:YF:303:VAL:HA	1.92	0.49
25:YI:114:ASP:OD1	25:YI:115:SER:N	2.45	0.49
25:YI:238:CYS:SG	25:YI:239:CYS:N	2.86	0.49
24:YL:55:GLU:O	24:ZL:285:GLN:NE2	2.40	0.49
25:YO:36:TYR:OH	25:YO:40:SER:O	2.31	0.49
41:Z0:311:LEU:HD12	41:Z0:312:CYS:HB2	1.94	0.49
41:Z3:321:ASP:HA	41:Z3:324:GLU:HG2	1.95	0.49
24:ZD:403:ALA:HB2	25:ZE:344:TRP:HZ3	1.78	0.49
2:1A:1575:PRO:HD2	2:1A:1923:ARG:HH21	1.76	0.49
2:1C:1253:THR:HG21	43:1C:2602:ANP:H3'	1.95	0.49
14:8C:178:ARG:NE	14:8C:180:SER:OG	2.46	0.49
17:B0:686:GLN:HE22	33:U1:29:HIS:H	1.61	0.49
17:B1:687:GLU:HA	17:B1:690:LEU:HG	1.94	0.49
18:C1:1262:GLU:HA	18:C1:1265:GLU:HG3	1.94	0.49
18:C1:1654:VAL:HG21	18:C1:1670:ALA:HA	1.93	0.49
18:C2:72:VAL:HG11	18:C2:96:SER:HB2	1.94	0.49
18:C2:960:GLU:HA	18:C2:963:GLU:HG2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:C2:1752:TRP:HA	18:C2:1766:LEU:HD12	1.95	0.49
19:D1:164:VAL:HG21	19:D1:201:LEU:HD22	1.94	0.49
19:G1:301:TYR:O	19:G1:305:SER:HB3	2.12	0.49
19:G3:122:ILE:HD11	19:G3:152:ILE:HG21	1.93	0.49
19:G4:133:CYS:HG	19:G4:145:SER:HG	1.60	0.49
19:H2:353:LYS:HD3	19:H2:386:LEU:HD13	1.95	0.49
19:H4:43:MET:SD	19:H4:43:MET:N	2.85	0.49
19:K0:264:ASP:HB3	19:K0:267:VAL:HG22	1.95	0.49
19:L0:362:GLN:OE1	19:L0:365:ARG:NE	2.45	0.49
19:L3:77:GLU:HA	19:L3:80:VAL:HG12	1.93	0.49
25:NG:156:ARG:NH2	25:NG:197:ASP:OD1	2.45	0.49
25:NO:139:LEU:HD13	25:NO:168:SER:HB2	1.93	0.49
25:NO:285:THR:HB	25:NO:287:PRO:HD2	1.95	0.49
25:NO:330:MET:HB3	25:NO:349:VAL:HG11	1.94	0.49
24:OH:273:ALA:HB3	24:OH:375:VAL:HB	1.95	0.49
24:OJ:386:GLU:O	24:OJ:390:ARG:NH1	2.45	0.49
24:OL:73:THR:OG1	25:OM:247:ASN:ND2	2.46	0.49
25:PC:143:THR:N	46:PC:501:GDP:O3B	2.45	0.49
28:Q0:1594:THR:H	28:Q0:1597:LEU:HD12	1.77	0.49
28:Q0:2274:ALA:HB2	28:Q0:2302:LEU:HD21	1.95	0.49
28:Q0:3199:LEU:HD11	28:Q0:3217:LEU:HD21	1.94	0.49
25:QE:192:LEU:HD22	25:QE:196:ALA:HB2	1.94	0.49
24:QF:325:PRO:O	24:QF:329:ASN:ND2	2.46	0.49
25:QG:271:THR:HA	25:QG:298:ASN:HD21	1.77	0.49
24:QH:195:LEU:HD12	24:QH:428:LEU:HD22	1.93	0.49
25:QI:20:PHE:HA	25:QI:230:SER:HB2	1.95	0.49
25:QO:397:TRP:HE1	24:QP:260:VAL:HG23	1.78	0.49
25:RE:391:ARG:HH11	24:RF:439:SER:HB3	1.77	0.49
24:RH:88:HIS:HE1	24:SH:284:GLU:HG2	1.78	0.49
25:RI:310:TYR:HD1	25:RI:371:SER:HB2	1.78	0.49
25:SG:47:ILE:HG22	25:SG:51:PHE:HB2	1.95	0.49
24:SH:272:TYR:HB3	24:SH:275:ILE:HD11	1.93	0.49
25:SK:211:CYS:HA	25:SK:215:LEU:HB2	1.95	0.49
24:SL:3:GLU:HA	24:SL:51:THR:HA	1.95	0.49
25:SM:164:MET:HB2	25:SM:197:ASP:HB3	1.94	0.49
25:SM:215:LEU:HB3	25:SM:217:LEU:HG	1.93	0.49
25:SO:64:ILE:HD11	25:SO:123:GLU:HG3	1.95	0.49
25:TM:298:ASN:HD22	25:TM:298:ASN:C	2.15	0.49
25:UC:113:ILE:HG13	25:UC:150:LEU:HD22	1.93	0.49
25:UC:289:LEU:O	25:UC:293:MET:N	2.46	0.49
25:UM:113:ILE:HA	25:UM:116:VAL:HG22	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:UM:179:VAL:HB	24:UN:258:ASN:HD22	1.77	0.49
25:UM:284:LEU:HD12	25:UM:363:MET:HB2	1.94	0.49
25:VM:207:LEU:HD13	25:VM:210:ILE:HD11	1.95	0.49
24:WB:25:CYS:O	24:WB:30:ILE:N	2.46	0.49
25:WC:32:PRO:O	25:WC:83:GLN:NE2	2.38	0.49
24:WH:15:GLN:NE2	44:WH:501:GTP:O6	2.46	0.49
24:WH:385:GLY:O	24:WH:389:SER:OG	2.25	0.49
24:XB:79:ARG:NH2	24:XB:92:LEU:O	2.43	0.49
24:XF:275:ILE:HG23	24:XF:368:LEU:HD21	1.95	0.49
25:XI:342:VAL:HG12	25:XI:348:ASN:HD21	1.78	0.49
25:XM:67:ASP:OD2	25:XM:72:THR:OG1	2.30	0.49
25:YC:184:ASN:OD1	25:YC:398:TYR:OH	2.24	0.49
25:YE:2:ARG:HB3	25:YE:131:GLN:HB2	1.93	0.49
24:YF:211:ASP:OD2	24:YF:304:LYS:NZ	2.40	0.49
25:ZC:375:GLN:HB2	25:ZC:419:VAL:HG23	1.93	0.49
24:ZD:196:GLU:HG2	24:ZD:197:HIS:HD2	1.76	0.49
25:ZI:330:MET:HB3	25:ZI:349:VAL:HG11	1.94	0.49
24:ZP:238:LEU:HD22	24:ZP:378:ILE:HD11	1.94	0.49
24:ZP:316:CYS:HA	24:ZP:352:LYS:HB3	1.95	0.49
2:1A:1721:MET:HG3	2:1A:1723:PRO:HD3	1.95	0.49
2:1B:1899:ASP:OD1	2:1B:1899:ASP:N	2.46	0.49
2:1B:2029:LEU:HB2	2:1B:2093:ALA:HB3	1.94	0.49
2:1B:2485:LEU:HG	18:C1:1298:ARG:NH2	2.28	0.49
2:1C:2463:SER:HB2	2:1C:2467:ARG:HH12	1.77	0.49
2:1D:64:GLN:HA	2:1D:67:LEU:HD23	1.95	0.49
2:1D:1718:ASN:ND2	2:1D:1794:LEU:HB2	2.26	0.49
4:2B:536:ALA:N	4:2B:820:ARG:O	2.45	0.49
13:7F:99:GLY:O	13:7F:115:TRP:N	2.45	0.49
16:A1:95:SER:HB2	25:XK:121:ARG:HD2	1.93	0.49
17:B1:344:ASN:HD21	25:RO:262:ARG:HG2	1.77	0.49
18:C1:430:GLU:HB2	18:C1:433:ARG:HH21	1.77	0.49
18:C3:958:ALA:HA	18:C3:961:PHE:HD2	1.78	0.49
19:D0:337:LEU:HD23	19:D0:340:LEU:HD12	1.95	0.49
19:D2:322:ALA:O	19:D2:365:ARG:NH2	2.41	0.49
19:D6:301:TYR:O	19:D6:305:SER:CB	2.60	0.49
21:F2:441:VAL:HA	21:F2:456:VAL:HA	1.93	0.49
19:G1:238:LYS:HB3	19:G1:277:GLU:HG2	1.94	0.49
19:G2:153:ALA:HB2	19:G2:163:VAL:HG21	1.94	0.49
19:G5:65:LEU:HD11	19:G5:84:ILE:HG12	1.93	0.49
19:H6:252:ILE:HA	19:H6:255:LYS:HE2	1.95	0.49
19:H7:248:VAL:HG21	19:H7:285:LEU:HD22	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:J0:23:ALA:O	19:J0:27:MET:HG2	2.13	0.49
19:K3:338:PRO:HA	19:K3:341:VAL:HG22	1.92	0.49
19:L0:264:ASP:HB3	19:L0:267:VAL:HG12	1.95	0.49
19:L2:348:PRO:HG2	19:L2:352:LEU:HD13	1.95	0.49
22:M1:53:TYR:H	22:M1:59:TYR:HE1	1.60	0.49
25:NE:130:LEU:HB2	25:NE:162:ARG:HE	1.76	0.49
24:NJ:76:ASP:OD1	25:NK:46:ARG:NH2	2.45	0.49
24:NN:285:GLN:HB2	24:ZN:56:THR:HG23	1.95	0.49
24:NN:391:LEU:HA	24:NN:394:LYS:HB3	1.95	0.49
26:O1:437:MET:O	26:O1:441:THR:OG1	2.16	0.49
24:OL:196:GLU:HG2	24:OL:197:HIS:CD2	2.48	0.49
25:OM:149:THR:HA	25:OM:152:ILE:HG12	1.95	0.49
25:OQ:192:LEU:HD22	25:OQ:196:ALA:HB2	1.94	0.49
24:PD:244:PHE:HB2	24:PD:356:ASN:HD21	1.77	0.49
25:PK:48:ASN:O	25:PK:62:ARG:NH2	2.46	0.49
25:PM:40:SER:HB2	25:PM:43:GLN:HG3	1.94	0.49
24:PN:76:ASP:OD2	25:PO:46:ARG:NH1	2.42	0.49
28:Q0:632:LEU:HD22	28:Q0:635:LEU:HD12	1.95	0.49
28:Q1:1769:ASN:HB3	28:Q1:1772:HIS:HB2	1.95	0.49
28:Q1:3203:GLU:OE1	29:R1:77:ARG:NE	2.39	0.49
25:QI:87:PRO:HA	25:QI:90:PHE:HB2	1.94	0.49
24:QP:2:ARG:HB2	24:QP:133:GLN:HG3	1.95	0.49
29:R0:171:THR:HA	29:R0:174:VAL:HG12	1.94	0.49
25:RC:249:ASP:OD1	25:RC:250:LEU:N	2.46	0.49
24:RH:156:ARG:HA	24:RH:159:VAL:HG12	1.95	0.49
25:SE:135:VAL:HG21	25:SE:152:ILE:HD11	1.94	0.49
24:TF:102:ASN:HB3	24:TF:105:ARG:HB2	1.93	0.49
24:TF:275:ILE:HG23	24:TF:368:LEU:HD21	1.93	0.49
25:TG:327:ASP:HA	25:TG:330:MET:HG2	1.94	0.49
25:TI:377:MET:HA	25:TI:380:ARG:HE	1.76	0.49
33:U0:4:VAL:N	33:U0:36:GLU:OE2	2.46	0.49
25:UM:272:PRO:HG3	25:UM:364:SER:HA	1.94	0.49
24:UN:141:VAL:O	24:UN:147:SER:OG	2.30	0.49
25:VC:121:ARG:NH1	25:VC:158:GLU:OE2	2.45	0.49
25:VE:139:LEU:HD12	25:VE:170:VAL:HG23	1.95	0.49
24:VL:278:ALA:HA	24:VL:369:ALA:HB2	1.94	0.49
24:WD:320:ARG:O	24:WD:373:ARG:HA	2.13	0.49
25:WE:290:THR:HG21	25:WE:329:GLN:HB3	1.94	0.49
24:WF:205:ASP:HB2	24:WF:303:VAL:HG23	1.95	0.49
24:WH:76:ASP:OD2	25:WI:46:ARG:NH2	2.46	0.49
25:WO:284:LEU:HD11	25:WO:362:LYS:HB3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:XD:109:THR:HG22	24:XD:110:ILE:HG23	1.94	0.49
40:Y2:352:THR:OG1	40:Y2:380:ALA:O	2.25	0.49
25:YG:234:SER:OG	25:YG:241:ARG:NH2	2.46	0.49
25:YO:293:MET:HG2	25:YO:367:PHE:HB2	1.93	0.49
41:Z0:238:ASP:HA	41:Z0:241:GLU:HG3	1.94	0.49
41:Z3:208:GLY:O	41:Z3:236:GLY:N	2.40	0.49
24:ZF:247:ALA:HB3	24:ZF:355:ILE:HB	1.94	0.49
25:ZG:301:CYS:SG	25:ZG:302:ALA:N	2.85	0.49
25:ZI:190:HIS:HE1	25:ZI:410:GLU:HG2	1.76	0.49
25:ZK:140:GLY:O	25:ZK:184:ASN:ND2	2.44	0.49
24:ZN:265:ILE:HG22	24:ZN:380:ASN:HD21	1.78	0.49
25:ZO:31:ASP:OD1	25:ZO:35:THR:N	2.45	0.49
2:1A:2178:LEU:HD21	2:1A:2239:PHE:HD2	1.78	0.49
2:1C:2495:LYS:HZ2	18:C2:1163:SER:HG	1.55	0.49
4:2A:226:GLU:HA	4:2A:229:ILE:HG22	1.95	0.49
8:3C:25:LEU:O	8:3C:29:ARG:N	2.42	0.49
14:8C:237:PHE:HE1	19:J0:8:GLN:HA	1.76	0.49
15:9E:1336:ASP:HA	15:9E:1709:LEU:H	1.78	0.49
18:C2:1769:ARG:NH1	18:C2:1809:ARG:HB3	2.28	0.49
20:E0:409:TYR:HB2	24:VJ:326:LYS:HD3	1.95	0.49
20:E2:379:LYS:HE3	24:UB:117:LEU:HD13	1.94	0.49
19:G1:221:GLN:NE2	32:T0:501:ASP:O	2.45	0.49
19:H0:217:LEU:HB3	19:H0:225:LEU:HD21	1.95	0.49
19:H3:185:ARG:HH11	19:H3:228:GLN:HG3	1.78	0.49
19:H7:276:ARG:HD2	19:H7:312:PRO:HB3	1.95	0.49
19:J3:338:PRO:HA	19:J3:341:VAL:HG22	1.94	0.49
19:K3:343:ALA:O	19:K3:353:LYS:NZ	2.45	0.49
19:L0:126:ALA:O	19:L0:130:LEU:HB2	2.11	0.49
19:L1:301:TYR:O	19:L1:305:SER:HB2	2.13	0.49
19:L3:233:LEU:HD13	19:L3:236:ILE:HD11	1.94	0.49
19:L3:405:LYS:HD3	19:L3:449:ALA:HB2	1.95	0.49
22:M1:330:GLY:HA2	25:TI:261:PRO:HB3	1.94	0.49
24:NB:73:THR:OG1	25:NC:247:ASN:ND2	2.46	0.49
25:NK:285:THR:HG22	25:NK:287:PRO:HD2	1.94	0.49
25:NM:7:ILE:HD13	25:NM:151:LEU:HD21	1.95	0.49
24:NN:298:PRO:HA	24:NN:301:MET:HG2	1.95	0.49
25:NO:204:ASN:OD1	46:NO:501:GDP:O2'	2.31	0.49
25:NO:375:GLN:HB2	25:NO:419:VAL:HG23	1.95	0.49
26:O2:153:GLU:HA	26:O2:156:ARG:HG2	1.95	0.49
25:OE:31:ASP:OD1	25:OE:35:THR:N	2.45	0.49
25:OG:325:GLU:HA	25:OG:328:GLU:HG3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:OH:306:ASP:OD2	24:OH:308:ARG:NH1	2.45	0.49
25:OI:212:PHE:CZ	24:OJ:326:LYS:HE3	2.48	0.49
25:PC:105:HIS:CD2	25:PC:150:LEU:HB2	2.48	0.49
25:PE:397:TRP:HE1	24:PF:260:VAL:HG23	1.77	0.49
25:PG:54:ALA:HA	25:QG:283:ALA:HB2	1.95	0.49
25:PG:215:LEU:HB3	25:PG:217:LEU:HG	1.95	0.49
25:PM:405:GLU:HA	25:PM:408:PHE:HD2	1.78	0.49
28:Q0:141:ASP:HB2	28:Q0:731:ARG:HH12	1.78	0.49
28:Q0:3114:ARG:CZ	28:Q0:3118:GLU:HG3	2.42	0.49
24:QH:178:SER:HB3	25:QI:347:ASN:HD22	1.77	0.49
25:RE:165:LEU:HD21	25:RE:250:LEU:HD12	1.95	0.49
24:RF:425:LEU:HD12	24:RF:428:LEU:HD13	1.95	0.49
24:RH:137:VAL:HG11	24:RH:154:LEU:HD21	1.94	0.49
25:SG:286:VAL:HG23	25:SG:287:PRO:HD3	1.93	0.49
25:SO:397:TRP:HE1	24:SP:260:VAL:HB	1.78	0.49
24:SP:203:MET:HG3	24:SP:303:VAL:HG21	1.95	0.49
24:SP:214:ARG:HH12	24:SP:215:ARG:HH21	1.60	0.49
24:TD:320:ARG:HH21	24:TD:358:GLN:HE22	1.60	0.49
25:TM:7:ILE:HD13	25:TM:151:LEU:HD21	1.95	0.49
25:TM:290:THR:HG21	25:TM:329:GLN:HB3	1.95	0.49
24:UF:102:ASN:HB3	24:UF:105:ARG:HB2	1.94	0.49
24:UH:195:LEU:HD12	24:UH:266:HIS:HE1	1.77	0.49
24:UH:240:ALA:HB2	24:UH:243:ARG:HH21	1.77	0.49
25:UK:20:PHE:HA	25:UK:230:SER:HB2	1.95	0.49
25:UO:215:LEU:HD11	25:UO:228:LEU:HD21	1.93	0.49
25:VC:52:ASN:OD1	25:VC:62:ARG:NH1	2.46	0.49
24:VP:271:SER:HB2	24:VP:377:MET:HB3	1.94	0.49
25:WI:113:ILE:HA	25:WI:116:VAL:HG22	1.95	0.49
24:WN:67:PHE:HB2	24:WN:92:LEU:HD22	1.94	0.49
25:WO:176:SER:OG	25:WO:178:THR:O	2.30	0.49
39:X1:233:GLN:HB2	39:X1:255:ARG:HG3	1.95	0.49
39:X2:238:SER:O	39:X2:240:ASN:ND2	2.46	0.49
24:XJ:9:ILE:HD11	24:XJ:153:LEU:HD23	1.95	0.49
24:XJ:9:ILE:HG13	24:XJ:68:LEU:HD21	1.94	0.49
24:XL:102:ASN:HB2	24:XL:105:ARG:HB2	1.95	0.49
25:XM:309:ARG:NH1	25:XM:426:GLN:O	2.46	0.49
40:Y3:44:PRO:HG2	40:Y3:71:ARG:HH12	1.77	0.49
40:Y4:224:MET:HE1	40:Y4:455:LEU:HB2	1.95	0.49
25:YE:396:HIS:HA	25:YE:399:THR:HG22	1.95	0.49
25:YG:17:GLY:HA2	25:YG:20:PHE:HB3	1.94	0.49
24:YH:298:PRO:HA	24:YH:301:MET:HB2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:YI:288:GLU:OE1	25:YI:291:GLN:NE2	2.46	0.49
25:YO:113:ILE:HA	25:YO:116:VAL:HG22	1.94	0.49
24:ZD:195:LEU:HD13	24:ZD:428:LEU:HD12	1.94	0.49
25:ZG:272:PRO:HG3	25:ZG:364:SER:HA	1.94	0.49
25:ZI:3:GLU:HB3	25:ZI:62:ARG:HH12	1.78	0.49
2:1B:909:TYR:O	2:1B:982:ASP:N	2.45	0.49
6:2H:681:PHE:HA	6:2H:686:LEU:HA	1.95	0.49
13:7C:38:LYS:O	13:7C:74:VAL:N	2.46	0.49
14:8C:25:VAL:HA	25:YI:320:ARG:HD3	1.95	0.49
16:A1:132:PRO:HB3	16:A1:138:SER:HB3	1.95	0.49
16:A3:48:VAL:HG12	24:XD:410:GLY:HA2	1.95	0.49
18:C0:1908:GLU:OE1	18:C0:1909:ARG:NH1	2.45	0.49
18:C2:28:GLY:HA2	18:C2:31:PHE:HD2	1.78	0.49
19:D3:329:LEU:HD13	19:D3:332:ILE:HD11	1.95	0.49
20:E2:152:GLY:O	24:TB:112:LYS:NZ	2.45	0.49
21:F1:78:CYS:SG	21:F1:178:ARG:NE	2.85	0.49
19:G2:100:LYS:HE2	19:G2:136:GLU:HG3	1.95	0.49
19:H1:34:ILE:HA	19:H1:37:LEU:HB2	1.95	0.49
19:H1:273:THR:HG22	19:H1:276:ARG:HE	1.78	0.49
19:H2:161:GLN:HA	19:H2:164:VAL:HG22	1.95	0.49
19:H3:91:SER:HG	19:H3:99:TYR:HH	1.61	0.49
19:H4:398:THR:O	19:H4:402:ARG:HG2	2.13	0.49
19:H7:273:THR:HA	19:H7:276:ARG:HD3	1.95	0.49
19:I1:301:TYR:O	19:I1:305:SER:CB	2.58	0.49
19:J2:179:PRO:HA	19:J2:184:LYS:HE2	1.94	0.49
19:J3:73:ASP:O	19:J3:77:GLU:N	2.39	0.49
22:M1:60:SER:HB2	22:M1:107:GLU:HG2	1.95	0.49
23:N1:100:VAL:HG23	23:N1:105:LEU:HD11	1.94	0.49
25:NG:397:TRP:CH2	24:NH:256:GLN:HB3	2.48	0.49
24:NJ:276:ILE:HG23	24:NJ:280:LYS:HB3	1.94	0.49
24:NN:187:SER:O	24:NN:191:THR:OG1	2.26	0.49
25:OC:32:PRO:O	25:OC:83:GLN:NE2	2.46	0.49
24:OD:124:LYS:HE3	24:PD:290:GLU:HB2	1.95	0.49
25:OK:113:ILE:HD11	25:OK:147:MET:HG3	1.95	0.49
25:OM:236:ILE:HD12	25:OM:368:ILE:HD11	1.94	0.49
24:PD:339:ARG:O	24:PD:342:GLN:NE2	2.46	0.49
25:PG:234:SER:O	25:PG:241:ARG:NH2	2.38	0.49
25:PI:44:LEU:HA	25:PI:47:ILE:HD11	1.95	0.49
28:Q0:914:LYS:HE3	28:Q0:926:VAL:HG11	1.94	0.49
28:Q1:1078:LEU:HD13	28:Q1:1083:VAL:HG21	1.94	0.49
25:QC:67:ASP:OD1	25:QC:68:LEU:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:QD:9:ILE:HG13	24:QD:68:LEU:HD21	1.94	0.49
25:QE:220:PRO:HD2	24:QF:326:LYS:HD2	1.93	0.49
29:R0:121:GLU:OE2	29:R0:125:HIS:NE2	2.46	0.49
25:RK:49:VAL:HG11	25:RK:241:ARG:HG2	1.95	0.49
24:RL:247:ALA:HB3	24:RL:355:ILE:HD11	1.95	0.49
24:SL:121:ARG:HH12	24:SL:124:LYS:HD2	1.78	0.49
24:SN:36:MET:SD	24:SN:61:HIS:NE2	2.86	0.49
24:TD:9:ILE:HD13	24:TD:150:GLY:HA2	1.94	0.49
24:TL:318:MET:HB2	24:TL:376:CYS:HB3	1.93	0.49
24:TN:271:SER:OG	24:TN:301:MET:SD	2.71	0.49
24:UB:297:GLU:HG3	24:UB:299:ALA:H	1.78	0.49
25:UC:113:ILE:HA	25:UC:116:VAL:HG22	1.95	0.49
24:UD:286:LEU:O	24:UD:373:ARG:NH1	2.46	0.49
25:UG:375:GLN:HB2	25:UG:419:VAL:HG13	1.94	0.49
25:UI:67:ASP:OD2	25:UI:72:THR:OG1	2.30	0.49
25:UM:198:GLU:HA	25:UM:264:HIS:HB2	1.95	0.49
25:UO:217:LEU:HB3	25:UO:220:PRO:HG3	1.94	0.49
25:UO:397:TRP:HE1	24:UP:260:VAL:HG23	1.78	0.49
24:VJ:317:LEU:HB3	24:VJ:319:TYR:HE1	1.77	0.49
24:VP:112:LYS:NZ	24:VP:113:GLU:OE1	2.36	0.49
25:WA:391:ARG:NH2	24:WB:439:SER:OG	2.46	0.49
24:WB:3:GLU:HA	24:WB:51:THR:HA	1.95	0.49
25:WE:382:SER:HB2	25:WE:415:MET:HG3	1.94	0.49
25:XI:135:VAL:HG21	25:XI:152:ILE:HD11	1.94	0.49
25:XK:86:ARG:NH1	25:XK:89:ASN:OD1	2.46	0.49
40:Y4:77:ALA:HB2	40:Y4:159:ALA:HB2	1.95	0.49
25:YE:128:ASP:N	25:YE:128:ASP:OD1	2.45	0.49
24:YF:135:PHE:HB2	24:YF:166:LYS:HG3	1.95	0.49
25:YM:17:GLY:HA2	25:YM:20:PHE:HB3	1.94	0.49
25:YM:262:ARG:NH1	25:YM:421:GLU:OE1	2.46	0.49
41:Z0:558:THR:HB	41:Z0:564:VAL:HG11	1.95	0.49
41:Z1:45:PHE:O	41:Z1:63:ASN:ND2	2.46	0.49
41:Z1:536:GLU:HA	41:Z1:539:LYS:HG2	1.95	0.49
41:Z2:410:GLU:OE1	41:Z2:447:GLN:NE2	2.46	0.49
25:ZG:396:HIS:HA	25:ZG:399:THR:HG22	1.93	0.49
24:ZH:273:ALA:HB3	24:ZH:375:VAL:H	1.77	0.49
25:ZI:235:GLY:HA3	25:ZI:366:THR:HG21	1.94	0.49
25:ZM:159:TYR:HB3	25:ZM:162:ARG:HG3	1.95	0.49
2:1C:2163:GLN:HB2	2:1C:2244:ASP:HB2	1.95	0.48
15:9A:1083:ILE:HA	15:9A:1092:LEU:O	2.13	0.48
16:A0:128:ARG:NH1	25:YO:296:ALA:O	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:C1:1808:PHE:CE2	18:C1:1832:VAL:HB	2.48	0.48
19:D4:193:ASP:HA	19:D4:196:LYS:HZ2	1.78	0.48
19:G2:253:PHE:CD2	19:G2:254:PRO:HD3	2.48	0.48
19:G3:406:SER:O	19:G3:421:VAL:N	2.46	0.48
19:H1:180:GLU:HB3	19:H1:183:LEU:HD12	1.95	0.48
19:H4:365:ARG:NH2	19:H4:403:ALA:O	2.44	0.48
19:H5:234:SER:OG	19:H5:235:GLN:NE2	2.46	0.48
19:J1:283:PRO:HB3	19:J1:323:PHE:HB3	1.94	0.48
19:J3:220:ASN:O	19:J3:226:LYS:NZ	2.31	0.48
19:J3:237:ALA:HB2	19:J3:247:VAL:HG21	1.93	0.48
19:L0:405:LYS:HD2	19:L0:445:ALA:HB1	1.95	0.48
19:L1:476:GLU:HB3	19:L1:478:ILE:HG23	1.95	0.48
22:M1:66:ARG:HH11	24:UJ:402:ARG:HG2	1.77	0.48
22:M1:710:LEU:HD13	29:R1:145:TYR:HE2	1.77	0.48
24:NB:79:ARG:NH2	24:NB:92:LEU:O	2.45	0.48
24:ND:3:GLU:OE1	24:ND:64:ARG:NH2	2.46	0.48
24:ND:9:ILE:HB	24:ND:139:ASN:HB3	1.94	0.48
24:NF:76:ASP:OD2	25:NG:46:ARG:NH2	2.46	0.48
24:NF:99:ALA:HA	24:NF:110:ILE:HD11	1.94	0.48
24:NF:327:ASP:OD1	24:NF:327:ASP:N	2.44	0.48
25:NG:33:THR:O	25:NG:58:ARG:NH1	2.46	0.48
24:NL:203:MET:HG3	24:NL:384:ILE:HD11	1.94	0.48
24:OJ:79:ARG:HG3	24:OJ:92:LEU:HD12	1.95	0.48
25:OM:224:ASP:HA	25:OM:227:HIS:ND1	2.28	0.48
24:PD:8:HIS:HD2	24:PD:67:PHE:HE1	1.60	0.48
24:PD:94:SER:OG	37:W9:163:UNK:O	2.29	0.48
24:PD:132:LEU:HD22	24:PD:164:LYS:HD3	1.95	0.48
24:PD:265:ILE:HG22	24:PD:380:ASN:HD21	1.77	0.48
24:PJ:240:ALA:HA	24:PJ:243:ARG:HE	1.78	0.48
24:PN:3:GLU:HG3	24:PN:129:CYS:HB2	1.95	0.48
25:PQ:74:ASP:OD1	25:PQ:74:ASP:N	2.44	0.48
25:QI:234:SER:O	25:QI:241:ARG:NH2	2.46	0.48
24:RD:79:ARG:O	24:RD:84:ARG:NH1	2.46	0.48
24:RF:262:TYR:HB2	24:RF:265:ILE:HG22	1.95	0.48
24:RJ:76:ASP:OD2	25:RK:46:ARG:NH1	2.34	0.48
25:RM:292:GLN:O	25:RM:298:ASN:ND2	2.40	0.48
24:RP:192:HIS:NE2	24:RP:420:GLU:OE1	2.43	0.48
25:SC:204:ASN:HA	25:SC:207:LEU:HD12	1.95	0.48
25:SM:175:VAL:HG11	24:SN:329:ASN:HB3	1.94	0.48
24:SP:247:ALA:HB3	24:SP:355:ILE:HD11	1.94	0.48
25:TE:20:PHE:HA	25:TE:230:SER:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:TF:288:VAL:HG13	24:TF:319:TYR:HE2	1.78	0.48
25:TO:207:LEU:HD11	25:TO:229:ILE:HD11	1.94	0.48
25:UE:221:THR:H	25:UE:224:ASP:HB3	1.78	0.48
34:V1:179:TYR:HA	34:V1:194:HIS:HA	1.94	0.48
25:VC:290:THR:HG21	25:VC:329:GLN:HB3	1.93	0.48
24:VD:177:VAL:HG21	24:VD:207:GLU:HB3	1.95	0.48
25:VG:139:LEU:HD22	25:VG:188:SER:HB3	1.95	0.48
25:VI:236:ILE:HD12	25:VI:368:ILE:HD11	1.93	0.48
25:VM:198:GLU:HA	25:VM:264:HIS:HB2	1.95	0.48
24:VP:265:ILE:HG23	24:VP:432:PHE:HE2	1.78	0.48
35:W1:771:MET:O	35:W1:776:GLU:N	2.46	0.48
25:WA:253:LEU:HD21	25:WA:316:LEU:HD21	1.95	0.48
24:WH:101:ASN:HA	24:WH:144:GLY:H	1.78	0.48
24:WJ:298:PRO:HB3	24:WJ:307:PRO:HD2	1.95	0.48
39:X3:395:TRP:HH2	39:X3:410:GLN:HG2	1.78	0.48
25:XC:91:VAL:HG11	25:XC:116:VAL:HG22	1.94	0.48
25:XI:325:GLU:HA	25:XI:328:GLU:HG2	1.95	0.48
25:XI:372:THR:HA	25:XI:422:TYR:HD1	1.77	0.48
24:XJ:248:LEU:HB2	24:XJ:355:ILE:H	1.77	0.48
25:XO:153:SER:HA	25:XO:195:ASN:HD22	1.78	0.48
40:Y3:386:LEU:HD23	40:Y3:413:THR:HG22	1.95	0.48
40:Y3:439:THR:HG22	40:Y3:447:ARG:HD2	1.95	0.48
40:Y4:263:ASP:N	40:Y4:263:ASP:OD1	2.45	0.48
25:YG:139:LEU:HD12	25:YG:170:VAL:HG12	1.93	0.48
25:YM:139:LEU:HD12	25:YM:170:VAL:HG12	1.94	0.48
41:Z3:60:VAL:HG22	41:Z3:267:ARG:HD3	1.95	0.48
24:ZF:399:TYR:O	24:ZF:402:ARG:NH1	2.46	0.48
24:ZP:392:ASP:OD2	24:ZP:422:ARG:NH1	2.46	0.48
2:1C:1922:TRP:CE3	18:C2:1928:ARG:HG3	2.48	0.48
13:7D:99:GLY:O	13:7D:115:TRP:N	2.44	0.48
18:C0:1343:PRO:HD2	18:C0:1346:LEU:HD12	1.95	0.48
18:C1:1623:GLU:O	18:C1:1627:HIS:CB	2.60	0.48
18:C2:490:THR:HG23	18:C2:492:ASN:H	1.78	0.48
18:C2:1288:PHE:HZ	18:C2:1465:GLN:HG3	1.78	0.48
19:D1:364:GLY:O	19:D1:370:HIS:NE2	2.44	0.48
19:D4:206:VAL:HG21	19:D4:243:LEU:HD22	1.94	0.48
19:D4:237:ALA:HB2	19:D4:247:VAL:HG21	1.95	0.48
19:D4:397:LYS:O	19:D4:401:ARG:HG2	2.13	0.48
19:D5:265:GLU:HA	19:D5:268:LYS:HD2	1.95	0.48
19:D6:182:SER:HA	19:D6:185:ARG:NH1	2.28	0.48
19:D7:383:LEU:O	19:D7:397:LYS:NZ	2.37	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:D7:398:THR:HB	19:D7:402:ARG:HH12	1.77	0.48
21:F1:262:GLY:H	21:F1:286:GLY:HA3	1.76	0.48
21:F2:328:LYS:O	21:F2:404:PHE:N	2.47	0.48
19:G4:277:GLU:HA	19:G4:280:LYS:HG2	1.95	0.48
19:G5:337:LEU:HB3	19:G5:377:THR:HG21	1.94	0.48
19:I0:314:ILE:HG22	19:I0:359:THR:HG21	1.94	0.48
19:J0:348:PRO:HB2	19:J0:352:LEU:HD12	1.95	0.48
19:K0:387:GLU:HA	19:K0:397:LYS:HE2	1.95	0.48
19:K1:111:ALA:HB1	19:K1:155:HIS:HE1	1.78	0.48
19:L1:210:ALA:O	19:L1:214:LEU:HB2	2.13	0.48
22:M1:93:LYS:HE3	25:UK:424:GLN:HE21	1.76	0.48
22:M1:735:ASP:OD1	28:Q1:2482:ARG:NH2	2.46	0.48
22:M1:757:TYR:OH	28:Q1:2021:ASP:OD2	2.30	0.48
25:NO:204:ASN:HA	25:NO:207:LEU:HD12	1.95	0.48
25:OE:55:THR:HG23	25:PE:283:ALA:HA	1.94	0.48
24:OH:222:PRO:HD2	25:OI:324:LYS:HG3	1.95	0.48
24:OJ:15:GLN:O	24:OJ:228:ASN:ND2	2.42	0.48
25:PI:334:GLN:HE22	25:PI:347:ASN:HA	1.78	0.48
24:PJ:250:VAL:HG22	24:PJ:352:LYS:HZ3	1.78	0.48
25:PM:285:THR:HB	25:PM:287:PRO:HD2	1.95	0.48
25:PO:171:PRO:HG2	25:PO:185:ALA:HB2	1.94	0.48
24:PP:262:TYR:HD2	24:PP:265:ILE:HD12	1.77	0.48
28:Q1:1857:GLY:HA3	28:Q1:1876:LEU:HD21	1.94	0.48
25:QG:67:ASP:OD1	25:QG:67:ASP:N	2.46	0.48
25:QM:31:ASP:OD1	25:QM:35:THR:N	2.46	0.48
24:QP:136:LEU:HD13	24:QP:235:ILE:HD11	1.95	0.48
25:RC:31:ASP:OD1	25:RC:35:THR:N	2.45	0.48
25:RG:207:LEU:HD23	25:RG:210:ILE:HD12	1.95	0.48
25:RK:270:PHE:HD1	25:RK:366:THR:HG22	1.78	0.48
24:RP:259:LEU:HD11	24:RP:316:CYS:HB3	1.95	0.48
30:S2:30:ASN:HB2	24:YF:219:ILE:HD11	1.94	0.48
24:SD:317:LEU:HB3	24:SD:319:TYR:HE1	1.78	0.48
25:SE:171:PRO:O	25:SE:380:ARG:NH2	2.47	0.48
25:SK:139:LEU:HD12	25:SK:170:VAL:HG12	1.95	0.48
24:SP:185:TYR:HE2	24:SP:404:PHE:HB2	1.78	0.48
32:T1:410:VAL:HB	32:T1:450:PRO:HD2	1.94	0.48
24:TB:247:ALA:HB3	24:TB:355:ILE:HB	1.95	0.48
24:TD:102:ASN:ND2	24:TD:407:TRP:O	2.36	0.48
24:TF:89:PRO:HD2	24:UF:280:LYS:HZ2	1.79	0.48
24:TL:75:VAL:HG11	24:TL:94:SER:HA	1.94	0.48
33:U1:92:LEU:HD21	33:U1:95:LEU:HD13	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:UC:113:ILE:HG23	25:UC:117:LEU:HD23	1.95	0.48
24:UD:76:ASP:HA	24:UD:79:ARG:HB2	1.95	0.48
24:UH:384:ILE:HA	24:UH:387:ILE:HD13	1.94	0.48
24:UL:265:ILE:HG22	24:UL:380:ASN:HD21	1.78	0.48
24:VJ:7:ILE:HG22	24:VJ:66:ILE:HB	1.95	0.48
24:VJ:14:ILE:O	24:VJ:18:ASN:N	2.46	0.48
25:VO:58:ARG:NH1	25:WO:280:GLN:OE1	2.46	0.48
24:WF:407:TRP:HE1	25:WG:258:ILE:HB	1.78	0.48
24:WH:223:THR:OG1	24:WH:224:TYR:N	2.45	0.48
24:WL:209:ILE:HG23	24:WL:230:LEU:HD11	1.95	0.48
24:WN:139:ASN:O	24:WN:170:THR:HA	2.12	0.48
25:XE:87:PRO:HD3	24:YF:283:HIS:CD2	2.48	0.48
24:XF:305:CYS:HB3	24:XF:387:ILE:HD11	1.95	0.48
40:Y1:439:THR:HB	40:Y1:451:TYR:CZ	2.48	0.48
24:YL:247:ALA:HB3	24:YL:355:ILE:HB	1.95	0.48
25:YO:100:ASN:HB2	25:YO:103:LYS:HB2	1.94	0.48
24:ZD:170:THR:O	24:ZD:204:LEU:HB2	2.13	0.48
25:ZE:272:PRO:HG3	25:ZE:364:SER:HA	1.95	0.48
24:ZF:50:ASN:O	24:ZF:64:ARG:NH1	2.47	0.48
25:ZK:66:MET:HG2	25:ZK:116:VAL:HG21	1.94	0.48
25:ZK:211:CYS:HA	25:ZK:215:LEU:HD12	1.94	0.48
24:ZL:223:THR:OG1	25:ZM:245:GLN:OE1	2.31	0.48
24:ZN:20:CYS:HB3	24:ZN:24:TYR:HE2	1.78	0.48
2:1C:2162:THR:HG23	2:1C:2293:ALA:H	1.78	0.48
2:1D:1936:GLU:OE1	18:C3:1575:ARG:NH2	2.47	0.48
13:7E:77:GLY:O	13:7E:92:TRP:N	2.46	0.48
14:8A:234:SER:HB3	14:8A:237:PHE:HB3	1.95	0.48
14:8B:129:LYS:HB2	24:UL:48:ALA:HB2	1.94	0.48
18:C0:407:LEU:HB3	18:C0:411:ARG:NH1	2.27	0.48
18:C0:613:LEU:HA	18:C0:616:ARG:HG2	1.95	0.48
18:C1:715:LEU:HA	18:C1:718:LYS:HG2	1.94	0.48
19:D1:329:LEU:HD13	19:D1:332:ILE:HD11	1.95	0.48
19:D7:107:LEU:HD13	19:D7:130:LEU:HD21	1.95	0.48
19:D7:315:MET:HA	19:D7:359:THR:HG21	1.96	0.48
21:F3:87:PHE:HA	21:F3:112:ARG:O	2.14	0.48
19:H0:108:ARG:HB2	19:H0:151:TYR:HD2	1.78	0.48
19:H1:85:LEU:HD23	19:H1:88:LEU:HD12	1.94	0.48
19:I1:114:SER:HB2	19:I1:117:LEU:HG	1.94	0.48
19:J2:344:LEU:HD21	19:J2:360:LEU:HD11	1.96	0.48
19:L3:34:ILE:HG13	19:L3:68:LEU:HD12	1.95	0.48
25:NE:3:GLU:HA	25:NE:49:VAL:HA	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:NI:396:HIS:HA	25:NI:399:THR:HG22	1.95	0.48
24:NL:192:HIS:NE2	24:NL:420:GLU:OE1	2.46	0.48
24:NN:292:THR:OG1	24:NN:319:TYR:OH	2.31	0.48
25:OI:307:HIS:ND1	25:OI:376:GLU:OE2	2.45	0.48
25:OK:309:ARG:NH2	25:OK:427:ASP:O	2.46	0.48
24:PF:212:ILE:O	24:PF:216:SER:OG	2.32	0.48
24:PJ:130:THR:OG1	24:PJ:131:GLY:N	2.45	0.48
25:PK:3:GLU:HA	25:PK:49:VAL:HG23	1.94	0.48
25:PO:99:ASN:HD22	25:PO:141:GLY:HA2	1.78	0.48
25:PO:204:ASN:O	25:PO:208:TYR:N	2.41	0.48
28:Q1:2166:LEU:HD21	28:Q1:2205:ALA:HB2	1.94	0.48
24:QD:5:ILE:HD13	24:QD:125:LEU:HB3	1.95	0.48
24:QH:105:ARG:HG2	24:QH:110:ILE:HG12	1.94	0.48
25:QI:311:LEU:HD23	25:QI:342:VAL:HG21	1.95	0.48
24:QJ:217:LEU:HD21	24:QJ:275:ILE:HG22	1.95	0.48
29:R0:164:ARG:HD2	29:R0:201:ASP:HB2	1.95	0.48
24:RD:316:CYS:HA	24:RD:352:LYS:HB2	1.94	0.48
24:RH:133:GLN:O	24:RH:165:SER:OG	2.31	0.48
24:RH:245:ASP:N	24:RH:245:ASP:OD2	2.46	0.48
25:SG:2:ARG:HH21	25:SG:240:LEU:HA	1.78	0.48
25:TC:175:VAL:HG12	24:TD:332:VAL:HB	1.93	0.48
25:TG:284:LEU:HD11	25:TG:363:MET:HB2	1.94	0.48
24:TJ:273:ALA:HB2	24:TJ:295:ALA:HB2	1.95	0.48
24:TL:77:GLU:HA	24:TL:80:THR:HG22	1.95	0.48
24:TN:292:THR:OG1	24:TN:319:TYR:OH	2.28	0.48
25:UE:54:ALA:HB3	25:UE:58:ARG:HB3	1.95	0.48
24:VB:53:PHE:HE2	24:VB:86:LEU:HD11	1.77	0.48
24:VJ:316:CYS:HA	24:VJ:352:LYS:HB3	1.94	0.48
25:VK:176:SER:HG	24:VL:349:THR:HG1	1.61	0.48
24:WF:203:MET:HB3	24:WF:303:VAL:HB	1.95	0.48
24:WF:317:LEU:HB3	24:WF:319:TYR:HE1	1.78	0.48
25:WG:215:LEU:HD11	25:WG:228:LEU:HD21	1.94	0.48
24:WL:259:LEU:HD11	24:WL:316:CYS:HB2	1.96	0.48
25:WM:124:ALA:HB1	25:WM:130:LEU:HD11	1.94	0.48
24:WN:189:LEU:HD11	24:WN:418:PHE:HE1	1.78	0.48
24:XF:288:VAL:HG13	24:XF:319:TYR:HE2	1.78	0.48
24:XJ:209:ILE:HD13	24:XJ:231:ILE:HD11	1.95	0.48
25:XK:294:TRP:NE1	25:XK:333:VAL:HG11	2.29	0.48
24:XN:228:ASN:OD1	44:XN:501:GTP:N1	2.45	0.48
40:Y7:193:ASN:HD21	40:Y7:196:ASN:HB2	1.78	0.48
41:Z1:315:LEU:HD23	41:Z1:318:LYS:HZ3	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:Z1:349:ILE:HG22	41:Z1:351:LYS:H	1.78	0.48
41:Z3:285:GLN:HG3	41:Z3:304:THR:HG22	1.95	0.48
25:ZE:234:SER:OG	25:ZE:241:ARG:NH2	2.47	0.48
25:ZI:67:ASP:OD1	25:ZI:68:LEU:N	2.46	0.48
25:ZM:229:ILE:HG22	25:ZM:233:MET:HE2	1.96	0.48
25:ZO:290:THR:HG21	25:ZO:329:GLN:HB3	1.95	0.48
1:0G:39:ALA:HB2	1:0H:16:ALA:HB1	1.96	0.48
2:1D:1445:PRO:HA	2:1D:1448:MET:HG3	1.96	0.48
14:8C:167:ARG:NH2	24:SH:47:ASP:OD1	2.46	0.48
18:C1:1268:ARG:NH2	18:C1:1484:VAL:HG13	2.28	0.48
18:C2:398:GLU:HA	18:C2:401:VAL:HG22	1.94	0.48
18:C3:257:ARG:HH21	18:C3:260:LEU:HD13	1.79	0.48
18:C3:1776:CYS:SG	18:C3:1777:ALA:N	2.84	0.48
19:D0:294:GLY:O	19:D0:298:LEU:CB	2.58	0.48
19:D1:46:LEU:HD23	19:D1:49:LEU:HD12	1.95	0.48
19:D6:153:ALA:HB2	19:D6:163:VAL:HG21	1.95	0.48
20:E0:371:LEU:HB3	24:VJ:214:ARG:HH11	1.77	0.48
19:G0:215:ALA:HB1	19:G0:255:LYS:HE3	1.95	0.48
19:G3:262:PHE:HD2	19:G3:264:ASP:H	1.62	0.48
19:H0:405:LYS:NZ	19:H0:449:ALA:HB2	2.29	0.48
19:H3:114:SER:HB3	19:H3:117:LEU:HG	1.95	0.48
19:K0:47:ARG:HD3	19:K0:84:ILE:HD13	1.95	0.48
19:L2:354:SER:HB2	19:L2:396:LEU:HD13	1.96	0.48
22:M0:754:GLY:HA2	28:Q0:1921:ASP:H	1.78	0.48
24:NB:237:SER:HA	24:NB:320:ARG:HD2	1.96	0.48
25:NC:391:ARG:HH22	24:ND:435:VAL:HA	1.78	0.48
25:NG:22:GLU:HA	25:NG:81:TYR:HD2	1.79	0.48
24:NH:65:CYS:SG	24:NH:66:ILE:N	2.86	0.48
25:NI:330:MET:HB3	25:NI:349:VAL:HG11	1.94	0.48
24:NL:138:PHE:HZ	24:NL:235:ILE:HG21	1.79	0.48
25:NM:67:ASP:OD1	25:NM:72:THR:OG1	2.30	0.48
24:PF:286:LEU:O	24:PF:373:ARG:NH1	2.40	0.48
24:PH:70:LEU:HB2	24:PH:98:ASP:HA	1.95	0.48
24:PJ:9:ILE:HD11	24:PJ:153:LEU:HD23	1.95	0.48
25:PQ:16:ILE:HD11	25:PQ:136:CYS:HB2	1.94	0.48
28:Q0:220:THR:O	28:Q0:224:THR:HG23	2.13	0.48
28:Q0:2894:VAL:HG13	28:Q0:2959:MET:HG2	1.95	0.48
28:Q1:913:PRO:HB2	28:Q1:925:LEU:HD12	1.95	0.48
24:QD:130:THR:OG1	24:QD:131:GLY:N	2.45	0.48
24:RJ:3:GLU:OE2	24:RJ:64:ARG:NE	2.46	0.48
24:RL:324:VAL:HG11	24:RL:326:LYS:HE3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:RN:155:GLU:HA	24:RN:197:HIS:CD2	2.48	0.48
24:RP:71:GLU:HB2	24:RP:98:ASP:HB3	1.95	0.48
25:SC:257:LEU:HD23	25:SC:312:THR:HG22	1.95	0.48
24:SF:101:ASN:ND2	24:SF:143:GLY:HA2	2.28	0.48
24:SJ:9:ILE:HB	24:SJ:139:ASN:HB3	1.94	0.48
24:SJ:317:LEU:N	24:SJ:352:LYS:O	2.39	0.48
25:SK:105:HIS:CD2	25:SK:150:LEU:HB2	2.48	0.48
32:T0:440:LYS:HE3	25:YM:262:ARG:HD3	1.95	0.48
32:T2:515:THR:OG1	24:YD:420:GLU:OE2	2.28	0.48
25:TC:272:PRO:HG3	25:TC:364:SER:HA	1.94	0.48
25:TI:27:GLU:OE1	25:TI:241:ARG:NH2	2.43	0.48
25:TO:128:ASP:OD2	25:TO:129:CYS:N	2.42	0.48
24:UF:76:ASP:OD2	25:UG:46:ARG:NH1	2.46	0.48
24:UJ:173:PRO:HG3	24:UJ:183:GLU:HG2	1.95	0.48
24:VD:96:LYS:NZ	25:VE:1:MET:SD	2.80	0.48
24:VJ:127:ASP:OD2	24:WJ:293:ASN:ND2	2.46	0.48
24:VJ:192:HIS:ND1	24:VJ:424:ASP:OD1	2.40	0.48
25:VO:219:THR:OG1	24:VP:326:LYS:NZ	2.36	0.48
25:VO:314:SER:HA	25:VO:350:LYS:HB3	1.95	0.48
24:VP:51:THR:HG21	24:VP:243:ARG:HG2	1.96	0.48
25:WA:271:THR:HA	25:WA:298:ASN:HD21	1.78	0.48
24:WD:185:TYR:CZ	24:WD:398:MET:HB3	2.48	0.48
24:WJ:297:GLU:HG3	24:WJ:299:ALA:H	1.78	0.48
24:WN:395:PHE:HB3	24:WN:422:ARG:HH21	1.79	0.48
39:X0:569:VAL:HG12	39:X0:623:PRO:HG2	1.95	0.48
25:XA:3:GLU:HA	25:XA:49:VAL:HA	1.95	0.48
40:Y0:385:LEU:HD11	40:Y0:414:SER:HB2	1.94	0.48
40:Y3:316:THR:HG23	40:Y3:318:GLU:H	1.77	0.48
24:YB:259:LEU:HD11	24:YB:316:CYS:HB2	1.95	0.48
25:YE:138:SER:HA	25:YE:169:VAL:H	1.78	0.48
24:YF:288:VAL:HG13	24:YF:319:TYR:HE2	1.78	0.48
25:YI:40:SER:HB2	25:YI:43:GLN:HG3	1.94	0.48
25:YI:113:ILE:HD11	25:YI:151:LEU:HD13	1.94	0.48
25:YK:31:ASP:OD1	25:YK:35:THR:N	2.44	0.48
24:YL:116:ASP:OD1	24:YL:117:LEU:N	2.46	0.48
25:ZG:62:ARG:HH22	25:ZG:127:CYS:HB3	1.77	0.48
25:ZG:397:TRP:NE1	24:ZH:260:VAL:O	2.44	0.48
25:ZO:236:ILE:HD12	25:ZO:368:ILE:HD11	1.94	0.48
2:1A:1813:ARG:HB3	41:Z0:275:ARG:NH2	2.29	0.48
2:1B:1607:VAL:HG21	2:1B:1692:LEU:HD22	1.95	0.48
2:1D:1335:LEU:HD22	2:1D:1338:ARG:NH2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:8B:70:LEU:HD23	14:8B:71:ARG:HG2	1.95	0.48
16:A2:86:HIS:HD2	16:A2:88:LYS:H	1.62	0.48
17:B0:548:ARG:HA	17:B0:551:LEU:HD23	1.93	0.48
17:B1:542:MET:HB2	17:B1:546:GLU:HG2	1.95	0.48
18:C3:57:ILE:HD11	18:C3:160:ALA:HB3	1.95	0.48
19:D1:305:SER:HB3	19:D1:310:ARG:HE	1.78	0.48
19:G1:50:LEU:O	19:G1:58:GLN:NE2	2.46	0.48
19:H1:282:THR:HG23	19:H1:285:LEU:H	1.78	0.48
19:H7:310:ARG:NH2	19:H7:346:GLU:OE1	2.47	0.48
19:I1:80:VAL:HG21	19:I1:117:LEU:HD22	1.95	0.48
19:J3:214:LEU:HA	19:J3:217:LEU:HD13	1.96	0.48
19:K2:47:ARG:HE	19:K2:84:ILE:HD11	1.78	0.48
19:L2:37:LEU:HD22	19:L2:68:LEU:HD21	1.95	0.48
19:L2:46:LEU:HA	19:L2:49:LEU:HD12	1.95	0.48
24:NB:68:LEU:HA	24:NB:93:ILE:HB	1.94	0.48
25:NC:252:LYS:O	25:NC:256:ASN:ND2	2.41	0.48
25:NE:397:TRP:HH2	24:NF:260:VAL:HB	1.79	0.48
24:NH:225:THR:HG22	24:NH:229:ARG:HH21	1.77	0.48
25:NK:105:HIS:HA	25:NK:150:LEU:HD12	1.96	0.48
24:OD:423:GLU:O	24:OD:427:ALA:N	2.37	0.48
24:OF:209:ILE:HG23	24:OF:230:LEU:HD11	1.94	0.48
25:OG:19:LYS:NZ	25:OG:223:GLY:O	2.46	0.48
25:OK:209:ASP:HB3	25:OK:213:ARG:HH12	1.78	0.48
25:OK:313:ALA:HB1	25:OK:367:PHE:HE1	1.78	0.48
24:ON:133:GLN:O	24:ON:165:SER:OG	2.32	0.48
24:ON:329:ASN:HA	24:ON:332:VAL:HG22	1.95	0.48
25:OO:113:ILE:HG13	25:OO:150:LEU:HD22	1.94	0.48
27:P0:1004:ALA:O	27:P0:1006:ASP:N	2.47	0.48
24:PF:255:PHE:HZ	24:PF:378:ILE:HG21	1.78	0.48
24:PH:14:ILE:HD11	24:PH:74:VAL:HG13	1.96	0.48
25:PI:204:ASN:OD1	46:PI:502:GDP:O2'	2.27	0.48
25:PQ:49:VAL:HG21	25:PQ:241:ARG:HG2	1.94	0.48
25:QC:282:ARG:HH22	25:QC:291:GLN:HE21	1.62	0.48
24:QF:84:ARG:HG3	24:QF:85:GLN:HG3	1.93	0.48
25:QM:73:MET:HA	25:QM:76:VAL:HG12	1.96	0.48
24:QN:51:THR:HG21	24:QN:243:ARG:HG2	1.95	0.48
24:QP:222:PRO:HD2	25:QQ:324:LYS:HZ3	1.78	0.48
25:RC:252:LYS:HD2	25:RC:252:LYS:HA	1.72	0.48
25:RE:190:HIS:CD2	25:RE:414:ASN:HB2	2.49	0.48
25:RG:117:LEU:HG	25:RG:121:ARG:HH12	1.79	0.48
25:RI:171:PRO:HB3	25:RI:181:GLU:HG2	1.93	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:RJ:90:GLU:HG3	24:RJ:121:ARG:HD3	1.95	0.48
24:RL:211:ASP:OD1	24:RL:214:ARG:NH2	2.45	0.48
24:RP:62:VAL:HG23	24:SP:283:HIS:CE1	2.47	0.48
24:RP:327:ASP:HA	24:RP:330:ALA:HB3	1.96	0.48
24:SB:2:ARG:HG2	24:SB:51:THR:HG22	1.94	0.48
25:SC:67:ASP:OD2	25:SC:72:THR:OG1	2.30	0.48
24:SH:11:GLN:NE2	25:SI:247:ASN:OD1	2.41	0.48
25:SO:48:ASN:OD1	25:SO:62:ARG:NH2	2.47	0.48
24:UD:322:ASP:OD1	24:UD:373:ARG:NE	2.38	0.48
25:UG:60:VAL:HG11	25:UG:86:ARG:HG3	1.95	0.48
24:UL:195:LEU:HD21	24:UL:428:LEU:HD22	1.96	0.48
24:UP:298:PRO:HB3	24:UP:307:PRO:HD2	1.95	0.48
24:VB:67:PHE:O	24:VB:93:ILE:N	2.47	0.48
24:VD:286:LEU:O	24:VD:373:ARG:NH1	2.46	0.48
25:WA:48:ASN:O	25:WA:62:ARG:NH2	2.42	0.48
24:WD:251:ASP:H	24:WD:254:GLU:HB2	1.78	0.48
25:WE:113:ILE:HG13	25:WE:150:LEU:HD23	1.94	0.48
24:WJ:96:LYS:NZ	25:WK:1:MET:SD	2.86	0.48
39:X0:172:HIS:H	39:X0:195:HIS:HB2	1.79	0.48
39:X1:236:ASP:HA	39:X1:258:ASP:HB3	1.96	0.48
25:XC:31:ASP:OD1	25:XC:35:THR:N	2.40	0.48
25:XC:203:ASP:OD1	25:XC:203:ASP:N	2.46	0.48
24:XL:128:ASN:C	24:XL:128:ASN:ND2	2.67	0.48
40:Y1:437:ILE:HD13	40:Y1:454:LEU:HD11	1.95	0.48
40:Y2:79:VAL:HG22	40:Y2:154:LEU:HD22	1.95	0.48
40:Y6:225:ARG:HH12	40:Y7:101:TYR:H	1.61	0.48
25:YC:404:ASP:OD1	25:YC:405:GLU:N	2.47	0.48
24:YL:187:SER:O	24:YL:191:THR:OG1	2.26	0.48
24:YL:210:TYR:CE1	24:YL:227:LEU:HD13	2.48	0.48
24:YL:298:PRO:HG3	24:YL:308:ARG:HH12	1.78	0.48
25:ZC:20:PHE:HA	25:ZC:230:SER:HB2	1.96	0.48
25:ZK:294:TRP:CG	25:ZK:333:VAL:HG21	2.48	0.48
24:ZN:251:ASP:OD1	24:ZN:252:ILE:N	2.46	0.48
2:1B:1309:ARG:NH1	2:1B:1309:ARG:O	2.46	0.48
2:1C:1949:ARG:NH2	2:1C:1950:THR:OG1	2.46	0.48
2:1C:2025:ALA:N	2:1C:2097:THR:OG1	2.40	0.48
4:2A:1211:GLU:O	4:2A:1213:ALA:N	2.43	0.48
4:2B:288:ASP:OD1	4:2B:288:ASP:N	2.46	0.48
16:A1:75:ASN:O	25:YM:336:LYS:NZ	2.46	0.48
16:A1:133:ALA:N	24:XJ:116:ASP:OD1	2.46	0.48
19:D1:227:ARG:HB3	19:D1:228:GLN:NE2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:D1:335:LYS:HE2	19:D1:338:PRO:HG2	1.94	0.48
19:D5:329:LEU:HD13	19:D5:332:ILE:HD11	1.94	0.48
20:E0:379:LYS:NZ	24:UJ:116:ASP:OD2	2.43	0.48
21:F2:95:THR:HA	21:F2:186:LEU:O	2.14	0.48
19:G0:395:ASP:O	19:G0:398:THR:OG1	2.24	0.48
19:H2:95:GLN:HB3	19:H2:99:TYR:HD2	1.78	0.48
19:H7:220:ASN:O	19:H7:226:LYS:NZ	2.41	0.48
19:I0:237:ALA:HB2	19:I0:247:VAL:HG21	1.94	0.48
19:J3:314:ILE:HB	19:J3:359:THR:HG21	1.94	0.48
19:L2:248:VAL:HG21	19:L2:285:LEU:HD22	1.95	0.48
19:L3:387:GLU:OE1	19:L3:401:ARG:NH1	2.47	0.48
22:M0:796:GLU:OE2	28:Q0:1096:GLN:NE2	2.47	0.48
24:NF:161:TYR:HB3	24:NF:164:LYS:HD2	1.96	0.48
24:NH:191:THR:HG21	24:NH:388:PHE:HE1	1.77	0.48
24:NL:9:ILE:HD11	24:NL:149:LEU:HD23	1.95	0.48
25:NM:299:MET:HG3	25:NM:305:PRO:HG3	1.94	0.48
25:OC:54:ALA:HA	25:PC:283:ALA:HB2	1.96	0.48
24:OF:334:THR:O	24:OF:337:THR:OG1	2.28	0.48
24:OH:65:CYS:SG	24:OH:66:ILE:N	2.86	0.48
24:ON:70:LEU:HA	24:ON:95:GLY:HA3	1.95	0.48
24:OP:244:PHE:HD2	24:OP:356:ASN:HD21	1.61	0.48
25:OQ:187:LEU:HD11	25:OQ:408:PHE:HE1	1.79	0.48
25:PI:235:GLY:HA3	25:PI:366:THR:HG21	1.95	0.48
28:Q0:139:HIS:O	28:Q0:142:THR:OG1	2.26	0.48
28:Q0:1270:PRO:HD2	28:Q0:1286:LEU:HG	1.95	0.48
28:Q0:1738:GLN:HB2	28:Q0:1849:ARG:HH21	1.79	0.48
28:Q0:2138:ASP:OD1	28:Q0:2138:ASP:N	2.45	0.48
25:QK:25:SER:HB2	25:QK:30:ILE:HB	1.95	0.48
24:QN:274:PRO:HD3	24:QN:291:ILE:HG23	1.94	0.48
25:QO:139:LEU:HD12	25:QO:170:VAL:HG12	1.95	0.48
25:QQ:22:GLU:HA	25:QQ:81:TYR:HD2	1.78	0.48
25:RK:271:THR:HG1	25:RK:365:ALA:H	1.60	0.48
30:S2:46:ARG:HH22	25:XE:75:SER:HA	1.79	0.48
25:SK:272:PRO:HG3	25:SK:364:SER:HA	1.95	0.48
24:SP:195:LEU:HD21	24:SP:264:ARG:HD2	1.95	0.48
24:TH:238:LEU:HD21	24:TH:378:ILE:HD12	1.94	0.48
24:TP:161:TYR:HB3	24:TP:164:LYS:HD2	1.95	0.48
24:UD:195:LEU:HD21	24:UD:428:LEU:HD22	1.95	0.48
25:UE:184:ASN:OD1	25:UE:398:TYR:OH	2.28	0.48
24:UF:180:ALA:HB3	24:UF:183:GLU:HG3	1.96	0.48
25:UG:113:ILE:HG13	25:UG:150:LEU:HD22	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:UL:2:ARG:NE	24:UL:242:LEU:O	2.45	0.48
24:UN:402:ARG:NE	24:UN:415:GLU:OE2	2.46	0.48
25:VE:113:ILE:HA	25:VE:116:VAL:HG22	1.95	0.48
25:VE:205:GLU:OE1	24:VF:329:ASN:ND2	2.47	0.48
24:VF:317:LEU:HB3	24:VF:319:TYR:HE1	1.78	0.48
25:WC:137:HIS:NE2	25:WC:166:THR:OG1	2.47	0.48
25:WK:67:ASP:OD2	25:WK:69:GLU:N	2.35	0.48
39:X3:598:PRO:HA	39:X3:670:TYR:CE2	2.48	0.48
24:XB:272:TYR:HB3	24:XB:275:ILE:HD11	1.95	0.48
24:XH:180:ALA:HB3	24:XH:183:GLU:HG3	1.94	0.48
24:XN:53:PHE:HB3	24:XN:61:HIS:HB3	1.94	0.48
24:XN:205:ASP:HB3	24:XN:303:VAL:HA	1.95	0.48
40:Y0:194:ILE:HD11	40:Y0:269:VAL:HG22	1.95	0.48
40:Y1:197:GLY:HA3	40:Y1:205:LEU:HD23	1.96	0.48
40:Y1:342:GLN:HA	40:Y1:364:ILE:HD13	1.96	0.48
25:YK:138:SER:HA	25:YK:169:VAL:HG22	1.96	0.48
41:Z3:65:ARG:HH22	41:Z3:107:VAL:HA	1.77	0.48
25:ZC:375:GLN:O	25:ZC:379:LYS:N	2.42	0.48
24:ZD:387:ILE:O	24:ZD:390:ARG:NH1	2.47	0.48
24:ZF:176:GLN:HE22	25:ZG:331:LEU:HD11	1.79	0.48
24:ZP:9:ILE:HG22	24:ZP:146:GLY:HA2	1.95	0.48
2:1A:2175:PRO:HD3	2:1A:2262:ASP:HB2	1.95	0.48
2:1D:1935:LEU:HG	2:1D:1952:GLN:HE21	1.78	0.48
4:2A:819:THR:O	4:2A:846:LEU:N	2.47	0.48
14:8B:99:ALA:HB2	25:WK:218:THR:HG21	1.95	0.48
16:A2:41:GLU:O	24:XH:402:ARG:NH2	2.47	0.48
18:C2:701:GLY:O	39:X2:91:HIS:NE2	2.44	0.48
18:C2:1758:PRO:HA	18:C2:1764:PRO:HA	1.95	0.48
19:D0:97:ARG:HH21	21:F1:74:HIS:CE1	2.32	0.48
19:D1:70:ASN:O	19:D1:112:ARG:NH2	2.38	0.48
19:D1:92:LEU:O	19:D1:100:LYS:NZ	2.44	0.48
19:D4:395:ASP:OD1	19:D4:395:ASP:N	2.46	0.48
19:G2:285:LEU:HD13	19:G2:288:LEU:HD12	1.95	0.48
19:G5:269:LYS:HD2	19:G5:309:ASN:HD22	1.79	0.48
19:H3:46:LEU:HD22	19:H3:61:ALA:HB1	1.95	0.48
19:H3:241:VAL:HG12	19:H3:281:HIS:HB3	1.95	0.48
19:H4:203:GLN:HA	19:H4:206:VAL:HG12	1.96	0.48
19:H5:203:GLN:HA	19:H5:206:VAL:HG22	1.95	0.48
19:H6:119:GLN:HA	19:H6:122:ILE:HG12	1.96	0.48
19:H6:395:ASP:OD1	19:H6:395:ASP:N	2.46	0.48
19:I1:198:THR:HG22	19:I1:200:GLU:H	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:J0:287:GLN:HA	19:J0:290:VAL:HG22	1.96	0.48
19:J1:198:THR:HB	19:J1:201:LEU:HG	1.94	0.48
19:J1:338:PRO:HA	19:J1:341:VAL:HG22	1.96	0.48
19:K1:159:LEU:HA	19:K1:162:GLN:HG3	1.96	0.48
19:K2:282:THR:HG23	19:K2:285:LEU:H	1.78	0.48
19:K3:160:ALA:HA	19:K3:163:VAL:HB	1.96	0.48
19:L0:142:LYS:HE3	19:L0:183:LEU:HD21	1.96	0.48
19:L0:252:ILE:HA	19:L0:255:LYS:HE2	1.96	0.48
22:M0:785:ARG:HG3	28:Q0:1766:ALA:HB3	1.95	0.48
23:N3:116:SER:HB3	23:N3:119:VAL:HG12	1.96	0.48
25:NG:8:GLN:HG3	25:NG:65:LEU:HG	1.96	0.48
25:NI:139:LEU:HD12	25:NI:170:VAL:HG12	1.96	0.48
24:NJ:244:PHE:HB2	24:NJ:356:ASN:HD21	1.78	0.48
24:NN:171:VAL:HG11	44:NN:501:GTP:H1'	1.95	0.48
25:OC:25:SER:HB2	25:OC:30:ILE:HB	1.96	0.48
24:OP:401:LYS:HZ3	25:OQ:428:ALA:HB1	1.78	0.48
24:PF:221:ARG:HA	25:PG:324:LYS:HZ1	1.78	0.48
24:PH:166:LYS:HD2	24:PH:198:THR:HA	1.95	0.48
24:PJ:90:GLU:O	24:PJ:121:ARG:NH1	2.46	0.48
25:PK:372:THR:HA	25:PK:422:TYR:HD2	1.77	0.48
25:PK:375:GLN:HB2	25:PK:419:VAL:HG23	1.94	0.48
24:PL:254:GLU:OE2	24:PL:352:LYS:NZ	2.42	0.48
25:PO:165:LEU:HD23	25:PO:250:LEU:HD13	1.93	0.48
28:Q1:2212:LEU:HD11	28:Q1:2301:VAL:HG13	1.96	0.48
25:QK:204:ASN:HA	25:QK:207:LEU:HD12	1.95	0.48
24:QP:236:SER:O	24:QP:243:ARG:NH2	2.46	0.48
24:RD:7:ILE:HG22	24:RD:66:ILE:HB	1.96	0.48
25:RE:253:LEU:HD11	25:RE:316:LEU:HD21	1.96	0.48
25:RE:391:ARG:HG3	24:RF:346:TRP:CD1	2.49	0.48
25:RM:262:ARG:HH21	25:RM:421:GLU:HG2	1.78	0.48
24:RP:215:ARG:HH11	24:RP:215:ARG:HG3	1.79	0.48
25:SC:54:ALA:HA	25:TC:283:ALA:HB2	1.96	0.48
24:SF:98:ASP:OD1	24:SF:98:ASP:N	2.46	0.48
24:SH:180:ALA:HB1	25:SI:256:ASN:HD21	1.78	0.48
24:SH:213:CYS:HA	24:SH:217:LEU:HB3	1.94	0.48
24:SJ:90:GLU:OE1	24:SJ:121:ARG:NH1	2.47	0.48
24:SP:320:ARG:HH12	24:SP:360:PRO:HA	1.77	0.48
24:TB:209:ILE:HD13	24:TB:231:ILE:HD11	1.96	0.48
24:TB:221:ARG:NE	25:TC:322:SER:OG	2.47	0.48
24:TH:222:PRO:HD2	25:TI:324:LYS:HG3	1.96	0.48
24:TJ:66:ILE:HG22	24:TJ:91:GLN:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:TM:183:TYR:HE1	25:TM:388:MET:HB3	1.79	0.48
25:TO:139:LEU:HG	25:TO:168:SER:HB2	1.95	0.48
25:TO:193:VAL:HG11	25:TO:418:LEU:HD11	1.94	0.48
33:U1:69:LEU:HD21	33:U1:72:LEU:HB2	1.96	0.48
25:UI:144:GLY:N	46:UI:501:GDP:O2B	2.46	0.48
24:UL:292:THR:OG1	24:UL:319:TYR:OH	2.28	0.48
25:UO:139:LEU:HD12	25:UO:170:VAL:HG12	1.95	0.48
24:VF:298:PRO:HB3	24:VF:307:PRO:HD2	1.95	0.48
24:VL:180:ALA:HB3	24:VL:183:GLU:HG3	1.96	0.48
25:WG:163:MET:HE3	25:WG:164:MET:H	1.78	0.48
25:WO:16:ILE:HD11	25:WO:229:ILE:HB	1.95	0.48
39:X1:244:GLN:HE22	39:X1:246:SER:HG	1.60	0.48
40:Y2:365:LEU:HD12	40:Y2:372:VAL:HG12	1.95	0.48
40:Y4:154:LEU:HD11	40:Y4:388:VAL:HG13	1.94	0.48
40:Y4:208:GLN:NE2	40:Y4:209:GLU:OE1	2.47	0.48
40:Y4:456:ARG:NH2	40:Y5:76:ARG:HH22	2.11	0.48
24:YL:94:SER:OG	24:YL:95:GLY:N	2.47	0.48
24:YP:317:LEU:N	24:YP:352:LYS:O	2.34	0.48
41:Z0:126:LEU:HA	41:Z0:129:MET:HB2	1.96	0.48
25:ZE:99:ASN:HA	25:ZE:142:GLY:HA3	1.95	0.48
24:ZH:102:ASN:OD1	24:ZH:105:ARG:N	2.45	0.48
25:ZO:2:ARG:HD2	25:ZO:131:GLN:HG3	1.96	0.48
2:1B:2002:MET:O	2:1B:2007:PRO:HD3	2.13	0.48
2:1D:1443:SER:OG	2:1D:1444:ASP:N	2.47	0.48
7:2L:158:MET:HA	9:3L:157:ALA:HB3	1.95	0.48
16:A3:85:HIS:CE1	25:XC:91:VAL:HA	2.49	0.48
17:B1:382:TRP:HZ3	24:SN:342:GLN:HA	1.79	0.48
18:C0:824:VAL:HB	18:C0:907:LEU:HD21	1.95	0.48
18:C4:121:LEU:O	19:D5:47:ARG:NE	2.46	0.48
20:E1:57:LYS:O	24:UH:337:THR:OG1	2.32	0.48
20:E2:39:MET:HE1	20:E2:127:LEU:HD21	1.95	0.48
19:G1:342:SER:O	19:G1:346:GLU:HG3	2.13	0.48
19:G3:63:LEU:HD22	32:T1:598:LEU:HD11	1.96	0.48
19:G5:93:SER:OG	19:G5:94:GLU:OE1	2.24	0.48
19:H3:170:PRO:HA	19:H3:173:VAL:HG22	1.96	0.48
19:J2:301:TYR:O	19:J2:305:SER:CB	2.61	0.48
19:K0:5:ALA:HA	19:K0:8:GLN:HG3	1.95	0.48
19:K0:298:LEU:O	19:K0:302:ILE:HG12	2.14	0.48
19:K3:72:SER:OG	19:K3:74:ASP:OD2	2.30	0.48
19:L2:371:ALA:HB1	19:L2:423:ARG:HG3	1.95	0.48
24:NB:205:ASP:HB3	24:NB:303:VAL:HA	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:ND:223:THR:HG23	24:ND:225:THR:H	1.79	0.48
24:NF:132:LEU:HD22	24:NF:164:LYS:HD3	1.96	0.48
24:NF:384:ILE:HA	24:NF:387:ILE:HG22	1.96	0.48
24:NH:56:THR:HG22	24:OJ:285:GLN:HB2	1.95	0.48
24:NJ:175:PRO:HB3	24:NJ:390:ARG:HD2	1.95	0.48
24:OD:269:LEU:HB3	24:OD:301:MET:HE1	1.95	0.48
25:OM:207:LEU:HA	25:OM:210:ILE:HG22	1.94	0.48
24:ON:175:PRO:HB3	24:ON:390:ARG:HD2	1.96	0.48
27:P0:995:PHE:HA	27:P0:1000:VAL:H	1.78	0.48
24:PJ:286:LEU:HD22	24:PJ:291:ILE:HD11	1.94	0.48
25:PK:385:PHE:HE2	25:PK:412:GLU:HB2	1.79	0.48
25:PM:383:GLU:HA	25:PM:386:THR:HG22	1.94	0.48
24:PN:271:SER:HB3	24:PN:301:MET:HA	1.95	0.48
28:Q1:1202:LEU:HD22	28:Q1:1237:VAL:HG22	1.96	0.48
25:QE:299:MET:HG3	25:QE:305:PRO:HG3	1.95	0.48
25:QG:11:GLN:NE2	24:QH:247:ALA:O	2.47	0.48
24:QJ:191:THR:HA	24:QJ:194:LEU:HG	1.96	0.48
25:RK:22:GLU:HA	25:RK:81:TYR:HD2	1.78	0.48
24:RN:194:LEU:O	24:RN:266:HIS:NE2	2.44	0.48
24:RP:33:ASP:HA	24:RP:85:GLN:HB2	1.94	0.48
25:SE:259:PRO:HG2	25:SE:311:LEU:HD23	1.96	0.48
25:SI:294:TRP:HH2	25:SI:330:MET:HG3	1.78	0.48
24:SL:207:GLU:HA	24:SL:210:TYR:HB2	1.95	0.48
25:TE:211:CYS:HA	25:TE:215:LEU:HB2	1.94	0.48
25:TG:2:ARG:HB3	25:TG:131:GLN:HB2	1.96	0.48
25:TG:203:ASP:OD1	25:TG:302:ALA:N	2.47	0.48
25:TM:204:ASN:OD1	46:TM:502:GDP:O2'	2.30	0.48
24:UB:244:PHE:HD2	24:UB:356:ASN:HD21	1.60	0.48
24:UF:154:LEU:HD22	24:UF:198:THR:HG22	1.95	0.48
24:UF:276:ILE:HG23	24:UF:280:LYS:HB3	1.96	0.48
24:UP:402:ARG:NH1	24:UP:415:GLU:OE2	2.46	0.48
25:VG:184:ASN:O	25:VG:188:SER:OG	2.32	0.48
25:VK:391:ARG:NH2	24:VL:437:ALA:O	2.34	0.48
24:VL:178:SER:OG	24:VL:180:ALA:O	2.30	0.48
25:WC:99:ASN:ND2	24:WD:254:GLU:OE1	2.46	0.48
25:WC:215:LEU:HD11	25:WC:228:LEU:HD21	1.96	0.48
24:WL:222:PRO:HD2	25:WM:324:LYS:HZ1	1.79	0.48
39:X0:112:ARG:HE	39:X0:138:SER:HA	1.78	0.48
39:X1:417:PRO:HB2	39:X1:419:ARG:NH1	2.29	0.48
25:XC:31:ASP:OD1	25:XC:34:GLY:N	2.47	0.48
25:XC:294:TRP:NE1	25:XC:333:VAL:HG11	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:XH:73:THR:HA	25:XI:46:ARG:HH21	1.77	0.48
25:XK:173:PRO:HB3	25:XK:380:ARG:HD3	1.95	0.48
40:Y2:154:LEU:HD11	40:Y2:388:VAL:HG13	1.95	0.48
25:YE:99:ASN:ND2	24:YF:254:GLU:OE1	2.47	0.48
24:YN:76:ASP:HA	24:YN:79:ARG:HB2	1.96	0.48
41:Z2:16:TYR:HA	41:Z2:40:PRO:HA	1.95	0.48
25:ZC:236:ILE:HD12	25:ZC:368:ILE:HD11	1.94	0.48
24:ZD:387:ILE:HA	24:ZD:390:ARG:HD3	1.95	0.48
24:ZF:67:PHE:HB2	24:ZF:92:LEU:HD23	1.95	0.48
24:ZJ:210:TYR:HE1	24:ZJ:227:LEU:HD11	1.79	0.48
25:ZM:248:ALA:HA	25:ZM:252:LYS:HG2	1.95	0.48
24:ZN:274:PRO:HD2	24:ZN:374:ALA:HA	1.96	0.48
2:1A:1533:ARG:HH22	2:1A:1535:VAL:HG23	1.79	0.48
2:1A:1607:VAL:HG21	2:1A:1692:LEU:HD22	1.95	0.48
2:1B:2046:LEU:HD13	2:1B:2110:LEU:HD12	1.96	0.48
2:1B:2456:VAL:O	18:C1:1203:ARG:NH2	2.47	0.48
2:1C:2043:SER:O	2:1C:2113:THR:OG1	2.32	0.48
17:B1:583:LYS:O	17:B1:587:ILE:HG12	2.14	0.48
18:C1:853:HIS:HE1	18:C1:855:GLU:HB2	1.78	0.48
19:D1:301:TYR:O	19:D1:305:SER:HB2	2.13	0.48
19:D3:299:VAL:HA	19:D3:302:ILE:HG12	1.95	0.48
20:E1:78:ASP:HB2	20:E1:81:LEU:HB2	1.95	0.48
19:H5:91:SER:O	19:H5:95:GLN:HB2	2.14	0.48
19:H7:95:GLN:NE2	19:H7:96:ASN:O	2.44	0.48
19:I0:149:LEU:HD13	19:I0:152:ILE:HD11	1.94	0.48
19:J0:265:GLU:OE2	19:J0:309:ASN:ND2	2.40	0.48
19:K0:154:GLY:HA2	19:K0:197:HIS:HE1	1.79	0.48
19:K1:302:ILE:O	19:K1:310:ARG:NE	2.38	0.48
19:K3:264:ASP:HB3	19:K3:267:VAL:HG12	1.96	0.48
19:L3:245:GLU:HA	19:L3:248:VAL:HG22	1.96	0.48
22:M1:196:PRO:HD3	22:M1:201:VAL:HB	1.96	0.48
24:NB:268:MET:SD	24:NB:380:ASN:ND2	2.86	0.48
25:NC:139:LEU:HG	25:NC:168:SER:HB2	1.94	0.48
25:NE:391:ARG:O	24:NF:262:TYR:OH	2.30	0.48
25:NG:63:ALA:O	25:NG:89:ASN:ND2	2.47	0.48
25:NK:416:ASN:HA	25:NK:419:VAL:HG12	1.95	0.48
24:NL:207:GLU:HA	24:NL:210:TYR:HB2	1.95	0.48
25:OG:86:ARG:HG2	25:OG:88:ASP:H	1.79	0.48
24:OJ:265:ILE:HG22	24:OJ:380:ASN:HD21	1.79	0.48
25:OM:222:PHE:HB2	24:ON:325:PRO:HG2	1.96	0.48
25:PE:334:GLN:HG2	25:PE:341:PHE:HE1	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:PG:114:ASP:OD1	25:PG:114:ASP:N	2.46	0.48
24:PH:248:LEU:HB2	24:PH:354:GLY:HA2	1.96	0.48
25:PI:68:LEU:HD12	25:PI:97:ALA:HB2	1.95	0.48
25:PI:105:HIS:CE1	25:PI:150:LEU:HD13	2.49	0.48
25:PM:49:VAL:HG13	25:PM:50:TYR:HD2	1.78	0.48
28:Q0:784:GLY:HA3	28:Q0:841:LYS:HG2	1.96	0.48
28:Q1:3203:GLU:OE2	29:R1:77:ARG:NH2	2.45	0.48
25:QI:163:MET:SD	25:QI:163:MET:N	2.87	0.48
25:QK:107:THR:HG22	33:U1:20:ILE:HG23	1.96	0.48
25:QO:20:PHE:HA	25:QO:230:SER:HB2	1.94	0.48
24:QP:306:ASP:OD1	24:QP:308:ARG:NH1	2.47	0.48
24:RD:109:THR:O	24:RD:112:LYS:NZ	2.44	0.48
24:RD:207:GLU:HA	24:RD:210:TYR:HB2	1.96	0.48
25:RG:60:VAL:HG11	25:RG:86:ARG:HH21	1.79	0.48
25:RK:113:ILE:HA	25:RK:116:VAL:HG12	1.95	0.48
24:RN:116:ASP:OD2	24:RN:117:LEU:N	2.47	0.48
25:RO:101:TRP:H	25:RO:398:TYR:HE1	1.61	0.48
24:SB:411:GLU:O	24:SB:413:MET:N	2.43	0.48
25:SC:211:CYS:HB2	25:SC:217:LEU:HD12	1.95	0.48
25:SE:144:GLY:N	46:SE:501:GDP:O2B	2.46	0.48
24:SF:112:LYS:HD2	24:SF:152:LEU:HD21	1.95	0.48
25:SI:236:ILE:HD12	25:SI:368:ILE:HD11	1.95	0.48
24:SN:219:ILE:HD11	24:SN:222:PRO:HB3	1.96	0.48
24:SP:88:HIS:NE2	24:TP:284:GLU:OE2	2.41	0.48
24:TB:3:GLU:OE2	24:TB:130:THR:N	2.47	0.48
24:UB:225:THR:HG22	36:W6:32:UNK:HA	1.96	0.48
25:UO:397:TRP:NE1	24:UP:256:GLN:O	2.46	0.48
24:VD:195:LEU:HD11	24:VD:428:LEU:HD22	1.96	0.48
25:VK:32:PRO:HD3	25:VK:81:TYR:HE1	1.79	0.48
25:WA:69:GLU:HB3	24:WB:2:ARG:HH12	1.79	0.48
25:WC:49:VAL:HG21	25:WC:241:ARG:HG2	1.94	0.48
25:WC:293:MET:HG3	25:WC:367:PHE:HB2	1.96	0.48
25:WE:159:TYR:HB3	25:WE:162:ARG:HG3	1.95	0.48
25:WG:47:ILE:HG22	25:WG:51:PHE:HB2	1.96	0.48
25:WG:323:THR:HA	25:WG:326:VAL:HG12	1.95	0.48
25:WM:272:PRO:HG3	25:WM:364:SER:HA	1.96	0.48
24:WN:50:ASN:O	24:WN:64:ARG:NH1	2.46	0.48
39:X0:94:THR:HG23	39:X0:116:ALA:HB3	1.96	0.48
39:X2:817:GLU:O	40:Y4:25:LYS:NZ	2.32	0.48
25:XK:193:VAL:HG11	25:XK:418:LEU:HD11	1.96	0.48
25:XO:205:GLU:HA	25:XO:208:TYR:HB2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:Y2:244:GLN:NE2	40:Y3:306:ASN:OD1	2.46	0.48
40:Y3:53:ARG:HG2	40:Y3:65:GLU:HB3	1.96	0.48
25:YC:7:ILE:HB	25:YC:135:VAL:HG12	1.95	0.48
24:YD:6:SER:O	24:YD:65:CYS:HA	2.13	0.48
24:YF:319:TYR:HB3	24:YF:323:VAL:HG21	1.96	0.48
24:YJ:209:ILE:HG23	24:YJ:230:LEU:HD11	1.95	0.48
24:YL:417:GLU:HA	24:YL:420:GLU:HG2	1.95	0.48
24:YN:254:GLU:OE2	24:YN:352:LYS:NZ	2.47	0.48
41:Z0:205:ASP:HB3	41:Z0:212:ASP:HB3	1.95	0.48
41:Z2:229:ALA:HB1	41:Z2:325:LYS:HE2	1.95	0.48
24:ZD:50:ASN:O	24:ZD:64:ARG:NH1	2.47	0.48
25:ZO:421:GLU:HA	25:ZO:424:GLN:HG3	1.96	0.48
2:1A:1539:LYS:HG2	2:1A:2054:ARG:HH22	1.78	0.48
2:1B:2456:VAL:HG21	18:C1:1207:LEU:HD21	1.94	0.48
16:A0:151:ASP:OD1	16:A0:154:ARG:NH2	2.44	0.48
17:B2:459:VAL:HB	17:B2:463:ARG:HH12	1.79	0.48
18:C1:1204:PHE:HD1	18:C1:1207:LEU:HD12	1.78	0.48
18:C2:340:GLU:HB2	18:C2:344:LYS:HZ3	1.79	0.48
18:C2:780:LEU:HA	18:C2:783:MET:HE2	1.96	0.48
18:C4:117:LEU:HG	19:D4:51:LEU:HD21	1.96	0.48
19:D5:406:SER:O	19:D5:421:VAL:N	2.47	0.48
19:D7:195:SER:HB3	19:D7:205:VAL:HG21	1.96	0.48
20:E1:340:ILE:HD12	23:N3:67:CYS:HB3	1.95	0.48
20:E1:425:GLY:HA2	20:E1:429:LYS:HB3	1.96	0.48
21:F2:139:PRO:HB3	21:F2:143:LYS:HG2	1.96	0.48
21:F3:13:GLN:HA	21:F3:106:GLU:HB3	1.96	0.48
19:G1:100:LYS:HB3	19:G1:141:VAL:HG21	1.95	0.48
19:G2:397:LYS:O	19:G2:401:ARG:HG2	2.13	0.48
19:H7:252:ILE:HA	19:H7:255:LYS:HE2	1.95	0.48
19:H7:324:SER:HB3	19:H7:327:LEU:HG	1.96	0.48
19:I0:164:VAL:HG21	19:I0:201:LEU:HD22	1.95	0.48
19:J0:26:GLU:O	19:J0:29:LYS:NZ	2.40	0.48
19:J1:237:ALA:HB1	19:J1:244:ALA:HA	1.96	0.48
22:M0:722:GLU:HG3	22:M0:723:ARG:HG3	1.96	0.48
24:NB:208:ALA:HB2	24:NB:304:LYS:HG2	1.96	0.48
24:ND:138:PHE:HZ	24:ND:235:ILE:HG21	1.78	0.48
24:OP:286:LEU:O	24:OP:373:ARG:NH1	2.47	0.48
25:PE:140:GLY:O	25:PE:184:ASN:ND2	2.43	0.48
25:PE:216:LYS:HB2	25:PE:275:SER:HB3	1.96	0.48
24:PN:226:ASN:ND2	24:PN:367:ASP:OD2	2.47	0.48
25:PO:67:ASP:OD1	25:PO:68:LEU:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:PP:251:ASP:H	24:PP:254:GLU:HG3	1.79	0.48
24:QH:221:ARG:NH2	25:QI:325:GLU:H	2.12	0.48
24:QL:395:PHE:HD2	24:QL:422:ARG:HD3	1.78	0.48
25:QO:100:ASN:HB3	25:QO:103:LYS:HB3	1.96	0.48
25:QQ:156:ARG:NE	25:QQ:195:ASN:O	2.47	0.48
24:RN:403:ALA:HB2	25:RO:344:TRP:HZ3	1.78	0.48
25:RO:101:TRP:CE3	25:RO:187:LEU:HD13	2.49	0.48
30:S2:144:LYS:NZ	25:UE:80:PRO:HA	2.29	0.48
24:SB:363:VAL:HG23	24:SB:366:GLY:HA3	1.95	0.48
24:SL:328:VAL:HG11	24:SL:355:ILE:HD11	1.95	0.48
25:TC:203:ASP:OD1	25:TC:203:ASP:N	2.44	0.48
24:TF:236:SER:OG	24:TF:243:ARG:NH2	2.47	0.48
25:TG:252:LYS:O	25:TG:256:ASN:ND2	2.46	0.48
24:TJ:98:ASP:O	24:TJ:105:ARG:NH1	2.47	0.48
24:TJ:269:LEU:HD21	24:TJ:384:ILE:HG13	1.96	0.48
24:TL:390:ARG:HG3	24:TL:391:LEU:HD12	1.95	0.48
25:TM:396:HIS:HA	25:TM:399:THR:HG22	1.96	0.48
24:TP:80:THR:O	24:TP:84:ARG:NH2	2.45	0.48
24:UD:209:ILE:HG23	24:UD:230:LEU:HD23	1.95	0.48
24:UN:221:ARG:NH2	36:W3:39:UNK:O	2.47	0.48
24:VB:229:ARG:HD3	24:VB:363:VAL:HG21	1.96	0.48
24:VB:272:TYR:HB3	24:VB:275:ILE:HD11	1.94	0.48
24:VD:9:ILE:HB	24:VD:139:ASN:HB3	1.96	0.48
24:VD:99:ALA:HA	24:VD:110:ILE:HD11	1.96	0.48
25:VG:248:ALA:HA	25:VG:252:LYS:HE2	1.96	0.48
25:VI:391:ARG:O	24:VJ:262:TYR:OH	2.31	0.48
24:VJ:54:SER:O	24:VJ:64:ARG:NH1	2.47	0.48
24:VL:267:PHE:HB2	24:VL:384:ILE:HD13	1.96	0.48
24:VL:392:ASP:OD2	24:VL:422:ARG:NH2	2.47	0.48
24:VN:206:ASN:ND2	44:VN:501:GTP:O2'	2.47	0.48
25:VO:320:ARG:HA	25:VO:320:ARG:NH1	2.29	0.48
24:WF:229:ARG:HD3	24:WF:363:VAL:HG21	1.95	0.48
25:WO:31:ASP:OD1	25:WO:35:THR:N	2.47	0.48
24:XN:64:ARG:HH12	24:XN:129:CYS:HB2	1.79	0.48
24:XN:338:LYS:NZ	24:XN:340:THR:OG1	2.34	0.48
40:Y0:338:ASP:OD1	40:Y0:362:ASP:N	2.35	0.48
24:YD:320:ARG:O	24:YD:373:ARG:HA	2.13	0.48
25:YG:167:PHE:CE2	25:YG:233:MET:HG2	2.49	0.48
24:YH:297:GLU:HG3	24:YH:299:ALA:H	1.79	0.48
25:YI:238:CYS:HB2	25:YI:318:ARG:HH11	1.78	0.48
25:YM:334:GLN:HE22	25:YM:347:ASN:HA	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:ZF:320:ARG:NH2	24:ZF:358:GLN:OE1	2.45	0.48
25:ZI:94:GLN:OE1	24:ZJ:1:MET:N	2.45	0.48
25:ZK:22:GLU:HG2	25:ZK:81:TYR:HB2	1.95	0.48
25:ZM:396:HIS:HA	25:ZM:399:THR:HG22	1.95	0.48
2:1A:1606:LEU:HA	2:1A:1703:VAL:HB	1.96	0.47
2:1B:1274:PHE:HA	2:1B:1277:VAL:HG12	1.96	0.47
2:1B:2047:SER:HB3	2:1B:2109:CYS:HB3	1.96	0.47
2:1C:2056:ALA:HB2	18:C2:1588:ALA:HB1	1.96	0.47
2:1C:2175:PRO:HD3	2:1C:2262:ASP:HB2	1.95	0.47
2:1D:2295:GLU:HG2	2:1D:2297:SER:H	1.78	0.47
4:2A:192:TRP:HA	4:2A:195:LEU:HD23	1.96	0.47
8:3D:22:LYS:O	8:3D:26:ALA:N	2.46	0.47
17:B1:671:PHE:HD2	17:B1:674:LEU:HD21	1.79	0.47
17:B2:443:ARG:NH1	17:B2:444:ASP:OD1	2.47	0.47
18:C0:706:ASP:OD1	18:C0:706:ASP:N	2.47	0.47
18:C0:1751:LEU:HD11	18:C0:1775:LEU:HD21	1.96	0.47
18:C1:1799:ASN:HB3	18:C1:1897:THR:HG21	1.96	0.47
19:D5:253:PHE:HA	19:D5:256:ILE:HD12	1.96	0.47
19:D7:284:GLU:HA	19:D7:287:GLN:HG3	1.96	0.47
19:D7:299:VAL:HA	19:D7:302:ILE:HG12	1.95	0.47
19:G1:253:PHE:HB3	19:G1:292:ASN:ND2	2.29	0.47
19:G4:33:ASN:HD21	19:G5:2:ALA:HA	1.78	0.47
19:G4:144:ALA:HA	19:G4:147:TRP:HD1	1.78	0.47
19:I1:338:PRO:HA	19:I1:341:VAL:HG22	1.96	0.47
19:J1:85:LEU:HD21	19:J1:110:VAL:HG21	1.96	0.47
19:J2:176:VAL:HG11	19:J2:214:LEU:HD22	1.96	0.47
19:K0:136:GLU:O	19:K0:142:LYS:NZ	2.41	0.47
19:K2:253:PHE:HE1	19:K2:275:VAL:HG22	1.78	0.47
19:K2:401:ARG:NH2	19:K2:442:ALA:O	2.47	0.47
19:L0:271:SER:HA	19:L0:274:VAL:HG12	1.96	0.47
24:OD:291:ILE:HD13	24:OD:373:ARG:HG3	1.95	0.47
25:OI:52:ASN:OD1	25:OI:62:ARG:NH1	2.47	0.47
25:OI:384:GLN:HG2	24:OJ:348:PRO:HG2	1.94	0.47
25:OI:416:ASN:HA	25:OI:419:VAL:HG22	1.94	0.47
24:OP:240:ALA:HA	24:OP:243:ARG:HE	1.78	0.47
25:OQ:20:PHE:HA	25:OQ:230:SER:HB2	1.96	0.47
24:PH:99:ALA:HA	24:PH:105:ARG:HD2	1.96	0.47
24:PH:320:ARG:NH2	24:PH:358:GLN:OE1	2.47	0.47
24:PJ:18:ASN:HD21	24:PJ:78:VAL:HG22	1.79	0.47
25:PO:131:GLN:HA	25:PO:131:GLN:NE2	2.28	0.47
28:Q0:2241:ASP:OD1	28:Q0:2242:THR:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Q1:2696:ARG:HH12	28:Q1:2710:LEU:HD11	1.79	0.47
24:QJ:2:ARG:NE	24:QJ:242:LEU:O	2.44	0.47
25:QQ:248:ALA:HA	25:QQ:252:LYS:HE2	1.96	0.47
24:RD:80:THR:HA	24:RD:84:ARG:HH11	1.77	0.47
24:RH:93:ILE:HD11	24:RH:121:ARG:NE	2.29	0.47
25:RO:150:LEU:HD11	25:RO:154:LYS:HE2	1.94	0.47
24:SF:100:ALA:HA	25:SG:252:LYS:HD2	1.95	0.47
25:SM:178:THR:HA	24:SN:352:LYS:HD3	1.95	0.47
32:T0:212:VAL:HA	32:T0:218:VAL:HA	1.96	0.47
25:TE:176:SER:OG	25:TE:178:THR:O	2.32	0.47
25:TK:416:ASN:HA	25:TK:419:VAL:HG12	1.95	0.47
24:TL:189:LEU:HD11	24:TL:418:PHE:HE1	1.79	0.47
24:UD:175:PRO:HD3	24:UD:390:ARG:NH2	2.29	0.47
24:UJ:273:ALA:HB1	24:UJ:291:ILE:HB	1.95	0.47
25:UM:144:GLY:N	46:UM:501:GDP:O2B	2.46	0.47
24:UN:245:ASP:OD1	24:UN:245:ASP:N	2.46	0.47
24:VJ:318:MET:HB2	24:VJ:376:CYS:HB3	1.94	0.47
25:VK:130:LEU:HB2	25:VK:162:ARG:HH11	1.79	0.47
24:VN:138:PHE:HZ	24:VN:235:ILE:HG12	1.78	0.47
25:VO:397:TRP:NE1	24:VP:257:THR:HA	2.29	0.47
24:WN:268:MET:SD	24:WN:380:ASN:ND2	2.82	0.47
39:X0:504:LEU:O	39:X0:507:THR:OG1	2.25	0.47
39:X2:165:LEU:HB3	39:X2:185:LEU:HD11	1.95	0.47
24:XB:317:LEU:N	24:XB:352:LYS:O	2.46	0.47
24:XH:237:SER:HA	24:XH:320:ARG:HH11	1.79	0.47
24:XL:65:CYS:SG	24:XL:66:ILE:N	2.87	0.47
25:XM:31:ASP:OD2	25:XM:35:THR:OG1	2.30	0.47
40:Y0:121:LEU:HD22	40:Y0:132:ILE:HD11	1.96	0.47
40:Y4:196:ASN:O	40:Y4:203:ASN:ND2	2.46	0.47
40:Y6:386:LEU:HD11	40:Y6:397:SER:HB2	1.96	0.47
24:YH:213:CYS:HB3	24:YH:219:ILE:HD11	1.96	0.47
24:YJ:177:VAL:HB	25:YK:327:ASP:HB3	1.96	0.47
24:YJ:211:ASP:OD2	24:YJ:215:ARG:NH1	2.35	0.47
25:YK:2:ARG:HB3	25:YK:131:GLN:HB2	1.95	0.47
25:YK:91:VAL:HG11	25:YK:116:VAL:HG22	1.96	0.47
25:YK:164:MET:HB3	25:YK:197:ASP:H	1.79	0.47
25:YK:391:ARG:NH2	24:YL:439:SER:OG	2.47	0.47
25:ZG:67:ASP:OD2	25:ZG:72:THR:OG1	2.25	0.47
24:ZH:305:CYS:HB3	24:ZH:387:ILE:HD11	1.96	0.47
25:ZK:290:THR:HG21	25:ZK:329:GLN:HB3	1.96	0.47
24:ZL:187:SER:O	24:ZL:191:THR:OG1	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:ZN:88:HIS:HB3	24:ZN:91:GLN:HE22	1.79	0.47
25:ZO:204:ASN:HA	25:ZO:207:LEU:HD12	1.96	0.47
2:1A:2048:ILE:HB	2:1A:2054:ARG:HG3	1.95	0.47
2:1B:1269:VAL:HG21	2:1B:1325:PHE:HB2	1.95	0.47
2:1B:1334:GLU:HA	2:1B:1337:ARG:HG2	1.94	0.47
2:1D:1673:LEU:HD12	2:1D:1676:THR:HG21	1.96	0.47
7:2M:156:GLU:HA	9:3M:155:ALA:HB3	1.96	0.47
16:A2:155:GLN:HE22	24:YF:176:GLN:HE21	1.61	0.47
17:B1:515:ALA:HB2	26:O1:360:ASN:HD21	1.79	0.47
18:C1:631:ALA:HA	18:C1:687:LYS:HE2	1.95	0.47
21:F3:94:VAL:HB	21:F3:185:VAL:HG22	1.97	0.47
19:G0:396:LEU:HA	19:G0:399:LYS:HE2	1.95	0.47
19:G3:271:SER:HA	19:G3:274:VAL:HG12	1.96	0.47
19:J0:13:TYR:O	19:J0:17:ARG:HG3	2.13	0.47
19:J1:252:ILE:HA	19:J1:255:LYS:HE2	1.96	0.47
25:NI:287:PRO:HA	25:NI:329:GLN:HE22	1.78	0.47
24:NL:178:SER:HB2	24:NL:183:GLU:HG3	1.96	0.47
26:O0:738:ASN:O	26:O0:842:TYR:CA	2.62	0.47
24:OD:65:CYS:SG	24:OD:66:ILE:N	2.86	0.47
25:OE:309:ARG:N	25:OE:372:THR:OG1	2.38	0.47
25:OG:130:LEU:HB2	25:OG:162:ARG:HD3	1.95	0.47
25:OG:159:TYR:HB3	25:OG:162:ARG:HG3	1.96	0.47
25:OG:372:THR:OG1	25:OG:422:TYR:O	2.32	0.47
24:OP:108:TYR:HA	24:OP:112:LYS:HE3	1.96	0.47
24:PD:51:THR:HG21	24:PD:243:ARG:HG2	1.96	0.47
25:PE:252:LYS:O	25:PE:256:ASN:ND2	2.47	0.47
25:PG:327:ASP:HA	25:PG:330:MET:HG2	1.96	0.47
24:PH:207:GLU:HB3	24:PH:304:LYS:NZ	2.29	0.47
24:PJ:206:ASN:HD21	44:PJ:501:GTP:N2	2.11	0.47
25:PK:313:ALA:HB1	25:PK:367:PHE:HE1	1.78	0.47
25:PM:205:GLU:HG3	25:PM:208:TYR:HD1	1.79	0.47
25:PQ:405:GLU:HA	25:PQ:408:PHE:HD2	1.79	0.47
28:Q0:1255:ALA:O	28:Q0:1259:ARG:HB2	2.14	0.47
24:QD:241:SER:HA	24:QD:356:ASN:HD22	1.78	0.47
25:QE:8:GLN:HG3	25:QE:65:LEU:HD23	1.95	0.47
24:QN:101:ASN:N	25:QO:252:LYS:HZ2	2.12	0.47
25:QO:3:GLU:HG2	25:QO:130:LEU:HD13	1.97	0.47
25:QO:113:ILE:HD11	25:QO:151:LEU:HD13	1.95	0.47
24:QP:209:ILE:HG23	24:QP:230:LEU:HD11	1.96	0.47
29:R0:54:ALA:HA	29:R0:57:LYS:HE3	1.96	0.47
25:RC:253:LEU:HD21	25:RC:316:LEU:HD21	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:RD:239:THR:HG23	24:RD:243:ARG:HH12	1.78	0.47
24:RD:387:ILE:HA	24:RD:390:ARG:HG2	1.95	0.47
24:RL:248:LEU:HB2	24:RL:355:ILE:HG12	1.96	0.47
25:RM:31:ASP:OD1	25:RM:34:GLY:N	2.41	0.47
30:S2:13:LYS:HG3	25:YG:360:GLY:HA3	1.95	0.47
25:SE:62:ARG:NH2	25:SE:123:GLU:O	2.46	0.47
24:SF:276:ILE:HD11	24:SF:286:LEU:HD11	1.96	0.47
24:SJ:253:THR:HA	24:SJ:256:GLN:HG3	1.95	0.47
32:T0:418:VAL:HG12	32:T0:435:VAL:HG22	1.95	0.47
25:TM:98:GLY:HA2	24:TN:254:GLU:HG2	1.94	0.47
25:TO:234:SER:O	25:TO:241:ARG:NH2	2.46	0.47
24:UD:174:SER:HB3	24:UD:177:VAL:O	2.13	0.47
25:UE:262:ARG:HH22	25:UE:414:ASN:HB3	1.79	0.47
24:UP:67:PHE:HB2	24:UP:92:LEU:HD13	1.96	0.47
25:VE:99:ASN:ND2	24:VF:254:GLU:OE2	2.47	0.47
24:VH:326:LYS:HG3	24:VH:327:ASP:N	2.29	0.47
24:VN:229:ARG:NH2	36:W3:9:UNK:O	2.47	0.47
24:VN:267:PHE:HB2	24:VN:384:ILE:HD12	1.96	0.47
25:WE:372:THR:HG21	25:WE:426:GLN:HB2	1.96	0.47
25:WI:207:LEU:HB3	25:WI:225:LEU:HD22	1.96	0.47
24:WJ:273:ALA:HB1	24:WJ:291:ILE:HB	1.95	0.47
39:X3:238:SER:O	39:X3:240:ASN:ND2	2.47	0.47
25:XC:192:LEU:HD22	25:XC:196:ALA:HB2	1.97	0.47
25:XC:219:THR:HA	24:XD:326:LYS:HZ1	1.80	0.47
24:XD:121:ARG:HA	24:XD:124:LYS:HG2	1.96	0.47
24:XD:259:LEU:HD11	24:XD:316:CYS:HB2	1.96	0.47
25:XK:301:CYS:SG	25:XK:302:ALA:N	2.87	0.47
40:Y4:62:PRO:HG3	40:Y4:101:TYR:CD2	2.47	0.47
40:Y5:452:ASN:OD1	40:Y5:456:ARG:NH1	2.46	0.47
24:YH:272:TYR:HB3	24:YH:275:ILE:HD11	1.96	0.47
24:ZB:332:VAL:HG13	24:ZB:351:PHE:HD2	1.79	0.47
24:ZL:170:THR:HG21	24:ZL:194:LEU:HD21	1.96	0.47
2:1B:2092:LEU:HD23	2:1B:2241:LEU:HD21	1.96	0.47
2:1B:2197:TYR:HA	18:C1:1556:LYS:NZ	2.29	0.47
2:1B:2471:LYS:HD2	2:1B:2474:GLN:HE21	1.80	0.47
16:A0:175:THR:HG22	16:A0:177:HIS:H	1.79	0.47
17:B2:263:PRO:HD2	24:QD:422:ARG:HE	1.79	0.47
18:C0:594:LEU:HB2	18:C0:932:LEU:HD21	1.95	0.47
18:C0:636:GLN:HA	18:C0:639:GLU:HG2	1.95	0.47
18:C0:966:GLN:HE21	18:C0:1023:VAL:HG13	1.79	0.47
18:C1:1042:GLU:O	18:C1:1046:ARG:HG2	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:C1:1384:LEU:O	18:C1:1387:THR:OG1	2.26	0.47
18:C2:121:LEU:HD12	19:D1:47:ARG:HG3	1.96	0.47
18:C2:589:ILE:O	18:C2:595:ARG:NH2	2.46	0.47
18:C2:837:LYS:HB3	18:C2:853:HIS:HE2	1.78	0.47
18:C3:577:ALA:O	18:C3:579:GLN:NE2	2.47	0.47
18:C4:4:LEU:HD21	21:F3:66:HIS:CE1	2.49	0.47
19:D1:113:HIS:HB2	19:D1:117:LEU:HD12	1.96	0.47
19:D3:46:LEU:HA	19:D3:49:LEU:HD12	1.95	0.47
20:E3:41:LEU:HA	20:E3:45:VAL:HB	1.95	0.47
19:G1:105:PHE:HD1	19:G1:108:ARG:HH21	1.62	0.47
19:G2:344:LEU:HB3	19:G2:382:THR:HG21	1.95	0.47
19:G5:138:ASP:HB3	19:G5:141:VAL:HG12	1.96	0.47
19:G5:224:LYS:HA	19:G5:227:ARG:HD3	1.96	0.47
19:H0:401:ARG:O	19:H0:405:LYS:HG2	2.15	0.47
19:H4:356:THR:HA	19:H4:359:THR:HG22	1.96	0.47
19:I0:324:SER:HB3	19:I0:327:LEU:HG	1.95	0.47
19:J0:86:PRO:HA	19:J0:89:VAL:HG12	1.96	0.47
19:L1:276:ARG:HH11	19:L1:315:MET:HE1	1.79	0.47
19:L2:85:LEU:HD21	19:L2:121:VAL:HG22	1.95	0.47
19:L2:122:ILE:HD12	19:L2:159:LEU:HD22	1.96	0.47
24:NF:71:GLU:HG2	24:NF:73:THR:HG22	1.95	0.47
24:NL:405:VAL:HG12	24:NL:409:VAL:HG23	1.96	0.47
24:OH:270:SER:OG	24:OH:271:SER:N	2.47	0.47
25:OM:99:ASN:ND2	25:OM:178:THR:HG21	2.28	0.47
25:OM:219:THR:HA	24:ON:326:LYS:NZ	2.29	0.47
25:OO:31:ASP:OD2	25:OO:35:THR:OG1	2.31	0.47
25:PG:122:LYS:NZ	25:QG:291:GLN:OE1	2.30	0.47
24:PJ:274:PRO:HD3	24:PJ:291:ILE:HG23	1.94	0.47
25:PK:143:THR:N	46:PK:501:GDP:O3B	2.47	0.47
25:PM:3:GLU:HG2	25:PM:130:LEU:HD13	1.97	0.47
25:PM:68:LEU:HB2	25:PM:143:THR:HG23	1.96	0.47
24:PN:250:VAL:HG12	24:PN:352:LYS:HE3	1.96	0.47
25:QC:45:GLU:HG3	25:QC:46:ARG:HG2	1.96	0.47
25:QG:211:CYS:SG	24:QH:326:LYS:HE2	2.55	0.47
24:QJ:317:LEU:HB3	24:QJ:319:TYR:HE1	1.79	0.47
25:QK:113:ILE:HG13	25:QK:150:LEU:HD22	1.96	0.47
24:QN:265:ILE:HG22	24:QN:432:PHE:HE1	1.78	0.47
24:QN:397:LEU:HD22	25:QO:346:PRO:HD3	1.95	0.47
25:QO:173:PRO:O	25:QO:380:ARG:NH1	2.47	0.47
25:RG:31:ASP:OD1	25:RG:35:THR:N	2.47	0.47
24:RH:16:VAL:O	24:RH:20:CYS:N	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:RH:352:LYS:HA	24:RH:352:LYS:HD2	1.74	0.47
24:RJ:331:SER:HA	24:RJ:334:THR:HG22	1.97	0.47
25:RK:105:HIS:CD2	25:RK:150:LEU:HB2	2.48	0.47
25:RM:324:LYS:HE2	25:RM:324:LYS:HB2	1.65	0.47
25:SG:204:ASN:O	25:SG:208:TYR:N	2.37	0.47
24:SH:130:THR:OG1	24:SH:131:GLY:N	2.47	0.47
24:SH:180:ALA:HB3	24:SH:183:GLU:HG3	1.96	0.47
25:TG:215:LEU:HD11	25:TG:228:LEU:HD21	1.96	0.47
25:TK:207:LEU:HB3	25:TK:225:LEU:HG	1.96	0.47
25:TO:113:ILE:HA	25:TO:116:VAL:HG22	1.95	0.47
24:UB:212:ILE:O	24:UB:216:SER:OG	2.32	0.47
24:UD:14:ILE:HD11	24:UD:74:VAL:HG13	1.96	0.47
24:UD:215:ARG:HH22	24:UD:299:ALA:C	2.18	0.47
25:UE:141:GLY:O	25:UE:184:ASN:ND2	2.43	0.47
25:UG:58:ARG:HH21	25:VG:281:TYR:HE1	1.61	0.47
24:UJ:137:VAL:HG11	24:UJ:154:LEU:HD11	1.96	0.47
25:UK:139:LEU:HD12	25:UK:170:VAL:HG12	1.96	0.47
24:VD:209:ILE:HG23	24:VD:230:LEU:HD11	1.95	0.47
24:VD:258:ASN:OD1	24:VD:352:LYS:NZ	2.36	0.47
25:VI:318:ARG:HA	25:VI:354:CYS:O	2.15	0.47
25:VK:42:LEU:HD21	25:VK:243:PRO:HD2	1.96	0.47
25:VO:178:THR:HB	25:VO:181:GLU:HG3	1.96	0.47
25:WA:161:ASP:OD2	25:WA:162:ARG:NH2	2.47	0.47
24:WD:3:GLU:OE1	24:WD:130:THR:N	2.47	0.47
25:WE:7:ILE:HB	25:WE:135:VAL:HG12	1.96	0.47
25:WE:177:ASP:OD2	46:WE:501:GDP:O3'	2.27	0.47
25:WM:139:LEU:HD12	25:WM:170:VAL:HG12	1.96	0.47
24:WN:288:VAL:HG13	24:WN:319:TYR:HE2	1.79	0.47
25:XG:27:GLU:OE1	25:XG:318:ARG:NH2	2.44	0.47
24:XL:141:VAL:O	24:XL:147:SER:OG	2.32	0.47
40:Y5:239:LYS:HZ3	40:Y5:244:GLN:HA	1.78	0.47
40:Y5:449:ALA:HA	40:Y5:452:ASN:HD21	1.79	0.47
40:Y6:445:SER:HA	40:Y6:448:ASN:HB2	1.96	0.47
40:Y7:163:ALA:O	40:Y7:167:GLU:HG3	2.14	0.47
40:Y7:176:ILE:HD13	40:Y7:428:LEU:HA	1.95	0.47
25:YE:198:GLU:HA	25:YE:264:HIS:HB2	1.96	0.47
24:YH:384:ILE:HA	24:YH:387:ILE:HD12	1.96	0.47
24:YL:262:TYR:HB2	24:YL:265:ILE:HD12	1.97	0.47
25:YM:11:GLN:HE22	24:YN:249:ASN:H	1.62	0.47
25:YM:322:SER:HB3	25:YM:325:GLU:HG2	1.96	0.47
24:YN:33:ASP:OD1	24:YN:34:GLY:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:YO:64:ILE:HD11	25:YO:123:GLU:HG3	1.95	0.47
41:Z0:253:ARG:O	41:Z0:256:LYS:NZ	2.46	0.47
41:Z3:136:PHE:HD2	41:Z3:137:LEU:HD22	1.78	0.47
25:ZE:44:LEU:HA	25:ZE:47:ILE:HD11	1.95	0.47
25:ZE:139:LEU:HD12	25:ZE:170:VAL:HG12	1.96	0.47
24:ZJ:189:LEU:HD11	24:ZJ:418:PHE:HE1	1.78	0.47
25:ZM:91:VAL:HG21	25:ZM:116:VAL:HG23	1.96	0.47
24:ZN:168:GLY:O	24:ZN:202:VAL:N	2.42	0.47
24:ZP:66:ILE:HG22	24:ZP:91:GLN:HB2	1.95	0.47
4:2B:1087:ILE:O	4:2B:1109:LEU:N	2.47	0.47
18:C0:1808:PHE:CE1	18:C0:1832:VAL:HB	2.49	0.47
18:C1:424:THR:O	18:C1:427:ARG:HB3	2.14	0.47
18:C1:540:ARG:HG2	18:C1:541:ALA:H	1.79	0.47
18:C2:408:LEU:HG	18:C2:411:ARG:HH22	1.80	0.47
18:C2:416:ARG:HG2	18:C2:419:ARG:HH12	1.80	0.47
18:C2:1647:GLN:HA	18:C2:1650:ILE:HG12	1.97	0.47
19:D3:100:LYS:HD3	19:D3:141:VAL:HG21	1.95	0.47
19:D3:284:GLU:HA	19:D3:287:GLN:HG3	1.96	0.47
19:D7:358:TRP:HB2	19:D7:396:LEU:HD13	1.95	0.47
20:E3:444:PRO:HD2	25:VM:227:HIS:CE1	2.49	0.47
21:F2:147:LYS:O	25:VI:424:GLN:NE2	2.35	0.47
19:G0:262:PHE:O	19:G0:268:LYS:NZ	2.40	0.47
19:G3:253:PHE:HE2	19:G3:275:VAL:HG23	1.79	0.47
19:H7:235:GLN:HG3	19:H7:238:LYS:HE3	1.96	0.47
19:J0:148:THR:O	19:J0:152:ILE:HG12	2.14	0.47
19:J3:185:ARG:NH1	19:J3:222:ASP:OD2	2.47	0.47
19:K3:268:LYS:HB3	19:K3:301:TYR:CE1	2.49	0.47
19:L3:272:ALA:HA	19:L3:275:VAL:HG12	1.96	0.47
25:NC:221:THR:OG1	25:NC:222:PHE:N	2.47	0.47
24:NJ:285:GLN:HB2	24:ZJ:56:THR:HG22	1.96	0.47
25:NK:67:ASP:OD1	25:NK:68:LEU:N	2.48	0.47
25:OI:130:LEU:O	25:OI:162:ARG:NH1	2.47	0.47
25:OM:309:ARG:HE	25:OM:342:VAL:HA	1.80	0.47
25:PC:249:ASP:OD1	25:PC:250:LEU:N	2.46	0.47
24:PH:88:HIS:CD2	24:PH:90:GLU:HG2	2.48	0.47
25:PI:58:ARG:HH11	25:QI:281:TYR:HE1	1.62	0.47
25:PO:271:THR:HA	25:PO:298:ASN:HD21	1.80	0.47
28:Q0:247:LEU:HD11	28:Q0:283:GLN:HE22	1.80	0.47
28:Q0:2886:LEU:HD13	28:Q0:2960:VAL:HG21	1.97	0.47
28:Q1:852:ASN:O	28:Q1:856:ARG:HB2	2.14	0.47
28:Q1:1078:LEU:HG	28:Q1:1159:LEU:HD11	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:QM:210:ILE:O	25:QM:214:THR:OG1	2.26	0.47
29:R0:70:ARG:O	29:R0:74:GLU:HB3	2.13	0.47
24:RD:273:ALA:HB3	24:RD:375:VAL:HB	1.97	0.47
24:RH:51:THR:HG21	24:RH:243:ARG:HG2	1.96	0.47
24:RJ:275:ILE:HD12	24:RJ:368:LEU:HD11	1.97	0.47
24:RJ:343:PHE:HE1	24:RJ:350:GLY:HA3	1.79	0.47
25:RM:113:ILE:HA	25:RM:116:VAL:HG12	1.97	0.47
25:SC:135:VAL:HG21	25:SC:152:ILE:HD11	1.97	0.47
24:SD:79:ARG:NH2	24:SD:92:LEU:O	2.47	0.47
24:SD:102:ASN:ND2	24:SD:407:TRP:O	2.47	0.47
25:SI:203:ASP:HB2	25:SI:206:ALA:HB3	1.96	0.47
25:SK:20:PHE:HA	25:SK:230:SER:HB2	1.95	0.47
25:SO:22:GLU:HG2	25:SO:81:TYR:HD2	1.79	0.47
32:T2:449:ILE:HD11	32:T2:466:LEU:HD12	1.96	0.47
25:TE:192:LEU:HD22	25:TE:196:ALA:HB2	1.95	0.47
25:TG:67:ASP:OD1	25:TG:72:THR:OG1	2.27	0.47
25:UG:21:TRP:HA	25:UG:24:VAL:HG12	1.96	0.47
24:UH:130:THR:OG1	24:UH:131:GLY:N	2.47	0.47
25:UK:114:ASP:OD1	25:UK:115:SER:N	2.46	0.47
25:UO:100:ASN:OD1	25:UO:103:LYS:NZ	2.29	0.47
25:VC:20:PHE:HA	25:VC:230:SER:HB2	1.97	0.47
24:VD:11:GLN:HE21	24:VD:15:GLN:HG3	1.79	0.47
24:VL:127:ASP:OD1	24:VL:127:ASP:N	2.44	0.47
24:VL:167:LEU:HD21	24:VL:252:ILE:HG23	1.96	0.47
25:VM:91:VAL:HG11	25:VM:116:VAL:HG12	1.96	0.47
24:VN:67:PHE:HB2	24:VN:92:LEU:HD22	1.96	0.47
25:WM:22:GLU:HG2	25:WM:81:TYR:HD1	1.79	0.47
25:WO:68:LEU:HD13	25:WO:143:THR:HG23	1.96	0.47
24:XD:363:VAL:HG23	24:XD:366:GLY:HA3	1.97	0.47
25:XO:204:ASN:OD1	46:XO:501:GDP:O2'	2.33	0.47
40:Y2:361:GLY:HA3	40:Y2:365:LEU:HD23	1.95	0.47
24:YB:195:LEU:HD11	24:YB:428:LEU:HD22	1.95	0.47
24:YD:198:THR:HG21	24:YD:201:ALA:HB2	1.97	0.47
25:YE:270:PHE:O	25:YE:298:ASN:ND2	2.46	0.47
25:YG:67:ASP:OD1	25:YG:68:LEU:N	2.46	0.47
25:YI:68:LEU:HB3	25:YI:96:GLY:HA2	1.96	0.47
25:YK:309:ARG:H	25:YK:372:THR:HG22	1.79	0.47
24:YL:210:TYR:CD1	25:YM:324:LYS:HD2	2.49	0.47
24:YL:311:LYS:HG2	24:YL:342:GLN:HB3	1.94	0.47
25:YM:236:ILE:HD12	25:YM:368:ILE:HD11	1.96	0.47
25:YO:176:SER:HB3	24:YP:351:PHE:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:Z0:342:LEU:HD12	41:Z0:347:THR:HB	1.95	0.47
41:Z2:357:GLN:HE21	41:Z2:365:LEU:HG	1.80	0.47
24:ZF:405:VAL:HG13	24:ZF:418:PHE:HE2	1.80	0.47
2:1A:1365:ASP:HB2	2:1A:1403:LEU:HD23	1.96	0.47
2:1A:1800:TYR:HD2	2:1A:1901:VAL:HG13	1.79	0.47
2:1B:2197:TYR:HA	18:C1:1556:LYS:HZ3	1.79	0.47
2:1C:1344:LYS:HA	2:1C:1435:ILE:HG13	1.97	0.47
2:1C:1533:ARG:HH21	2:1C:1985:VAL:HB	1.79	0.47
2:1D:1949:ARG:HH22	18:C3:1821:GLU:HB2	1.78	0.47
6:2H:114:ALA:HB3	6:2H:131:ALA:HB3	1.97	0.47
14:8A:129:LYS:HB2	24:UP:48:ALA:HB2	1.95	0.47
15:9A:1343:GLY:HA2	15:9A:1348:LEU:HA	1.97	0.47
15:9D:1693:ALA:HA	15:9D:1783:LEU:HA	1.96	0.47
18:C0:1378:THR:HG22	18:C0:1455:LEU:HD13	1.96	0.47
18:C0:1583:LEU:HD11	18:C0:1592:LEU:HD13	1.96	0.47
18:C2:594:LEU:N	18:C2:763:ARG:O	2.46	0.47
18:C3:416:ARG:HH22	39:X3:317:LYS:HG3	1.78	0.47
19:D1:387:GLU:HB3	19:D1:397:LYS:HE2	1.97	0.47
19:D5:344:LEU:HD11	19:D5:386:LEU:HD11	1.97	0.47
19:D6:349:GLU:OE2	19:D6:352:LEU:N	2.45	0.47
20:E1:155:THR:H	24:TF:110:ILE:HG22	1.78	0.47
21:F1:143:LYS:NZ	21:F1:147:LYS:O	2.47	0.47
19:G1:122:ILE:HD13	19:G1:162:GLN:HE21	1.79	0.47
19:G1:137:PHE:HD1	32:T0:329:GLY:HA2	1.79	0.47
19:G4:210:ALA:O	19:G4:214:LEU:HB2	2.15	0.47
19:H7:226:LYS:HA	19:H7:229:VAL:HG12	1.96	0.47
19:J2:47:ARG:HB2	19:J2:84:ILE:HG13	1.95	0.47
19:L0:287:GLN:HA	19:L0:290:VAL:HG22	1.97	0.47
19:L1:95:GLN:O	19:L1:100:LYS:NZ	2.29	0.47
19:L2:445:ALA:O	19:L2:448:ARG:NH1	2.47	0.47
22:M1:335:ASP:HB2	22:M1:338:THR:HG23	1.96	0.47
24:NB:305:CYS:HB3	24:NB:387:ILE:HD11	1.96	0.47
25:NG:52:ASN:ND2	25:NG:123:GLU:OE2	2.42	0.47
25:NK:141:GLY:O	25:NK:145:SER:OG	2.26	0.47
25:NK:284:LEU:HD23	25:NK:362:LYS:HE3	1.96	0.47
24:NL:90:GLU:OE2	24:ON:280:LYS:NZ	2.34	0.47
25:OE:178:THR:HA	24:OF:352:LYS:HE2	1.97	0.47
24:OF:392:ASP:OD2	24:OF:422:ARG:NH1	2.48	0.47
24:OP:2:ARG:NH2	24:OP:243:ARG:O	2.48	0.47
24:OP:115:VAL:HG23	24:OP:153:LEU:HD22	1.96	0.47
24:PH:286:LEU:O	24:PH:373:ARG:NH1	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:PI:31:ASP:OD1	25:PI:35:THR:N	2.44	0.47
28:Q0:1510:MET:HB3	28:Q0:1609:LEU:HD13	1.96	0.47
24:QF:53:PHE:HB3	24:QF:61:HIS:HB3	1.96	0.47
24:QF:116:ASP:OD1	24:QF:117:LEU:N	2.48	0.47
24:QJ:193:SER:O	24:QJ:197:HIS:ND1	2.42	0.47
25:QM:198:GLU:HA	25:QM:264:HIS:HB2	1.97	0.47
25:QO:140:GLY:O	25:QO:184:ASN:ND2	2.42	0.47
25:RC:397:TRP:CH2	24:RD:256:GLN:HB3	2.49	0.47
24:RF:224:TYR:HA	24:RF:227:LEU:HD12	1.96	0.47
24:RH:269:LEU:HD21	24:RH:384:ILE:HG12	1.96	0.47
25:SC:314:SER:HB3	25:SC:368:ILE:HB	1.97	0.47
25:SE:413:SER:O	25:SE:417:ASP:N	2.47	0.47
25:SI:176:SER:OG	25:SI:178:THR:O	2.31	0.47
24:SN:71:GLU:HG3	24:SN:73:THR:HG22	1.97	0.47
25:SO:211:CYS:HA	25:SO:215:LEU:HB2	1.95	0.47
32:T1:586:ASP:HB3	32:T1:589:SER:HA	1.97	0.47
25:TG:31:ASP:OD1	25:TG:35:THR:N	2.48	0.47
25:TO:144:GLY:N	46:TO:501:GDP:O2B	2.47	0.47
33:U0:194:ARG:HG2	33:U0:195:SER:H	1.79	0.47
25:UG:131:GLN:HE22	25:UG:249:ASP:HB2	1.79	0.47
24:UH:50:ASN:O	24:UH:64:ARG:NH1	2.47	0.47
24:UH:88:HIS:HB3	24:UH:91:GLN:HG3	1.95	0.47
25:UI:135:VAL:HG21	25:UI:152:ILE:HD11	1.97	0.47
24:UJ:88:HIS:HB3	24:UJ:91:GLN:HG2	1.96	0.47
25:UK:202:LEU:HD12	25:UK:207:LEU:HD21	1.97	0.47
25:UO:253:LEU:HD11	25:UO:316:LEU:HD21	1.97	0.47
24:UP:269:LEU:HG	24:UP:384:ILE:HD11	1.96	0.47
24:VH:6:SER:O	24:VH:65:CYS:HA	2.14	0.47
25:WA:131:GLN:HE22	25:WA:250:LEU:HB2	1.78	0.47
24:WF:73:THR:OG1	25:WG:247:ASN:OD1	2.26	0.47
25:WG:204:ASN:OD1	46:WG:502:GDP:O2'	2.31	0.47
24:WL:235:ILE:HD12	24:WL:238:LEU:HD11	1.97	0.47
25:WO:313:ALA:HB1	25:WO:367:PHE:HE1	1.80	0.47
25:XA:212:PHE:CE2	24:XB:326:LYS:HD2	2.49	0.47
24:XD:338:LYS:HG2	24:XD:340:THR:HG22	1.97	0.47
24:XH:17:GLY:HA2	24:XH:20:CYS:HB2	1.96	0.47
24:XH:402:ARG:NE	24:XH:415:GLU:OE2	2.48	0.47
24:XJ:247:ALA:HB3	24:XJ:355:ILE:HB	1.96	0.47
40:Y5:83:ALA:H	40:Y5:417:SER:HB2	1.79	0.47
25:YI:210:ILE:O	25:YI:214:THR:OG1	2.28	0.47
24:YL:176:GLN:HB3	25:YM:331:LEU:HD21	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:Z3:536:GLU:HA	41:Z3:539:LYS:HE3	1.95	0.47
24:ZB:192:HIS:HD2	24:ZB:421:ALA:HA	1.80	0.47
24:ZL:68:LEU:HA	24:ZL:93:ILE:HB	1.96	0.47
2:1C:2146:ASN:OD1	2:1C:2150:THR:N	2.46	0.47
2:1C:2167:VAL:O	2:1C:2288:TRP:HB2	2.15	0.47
7:2M:158:MET:HA	9:3M:157:ALA:HB3	1.96	0.47
13:7G:96:ALA:HB1	13:7G:117:ALA:HA	1.95	0.47
15:9D:1343:GLY:HA2	15:9D:1348:LEU:HA	1.96	0.47
16:A2:160:LEU:HD11	24:YF:386:GLU:HB3	1.95	0.47
17:B2:343:LEU:HD12	25:RG:261:PRO:HG2	1.97	0.47
18:C0:599:LEU:HD23	18:C0:824:VAL:HG13	1.96	0.47
18:C3:1370:ARG:NH1	18:C3:1462:CYS:SG	2.87	0.47
19:D3:353:LYS:HA	19:D3:356:THR:HG22	1.95	0.47
21:F0:327:VAL:HA	21:F0:444:VAL:HA	1.96	0.47
19:G1:51:LEU:HD11	19:G1:87:GLN:HB3	1.97	0.47
19:G3:127:LEU:HD11	19:G3:163:VAL:HG23	1.96	0.47
19:H1:210:ALA:O	19:H1:214:LEU:CB	2.62	0.47
19:I1:47:ARG:HB2	19:I1:84:ILE:HG12	1.96	0.47
19:J0:122:ILE:HD11	19:J0:152:ILE:HG21	1.96	0.47
19:K3:185:ARG:HG2	19:K3:224:LYS:NZ	2.30	0.47
23:N2:93:PRO:O	23:N2:96:SER:OG	2.28	0.47
24:NB:265:ILE:HG23	24:NB:432:PHE:HE1	1.79	0.47
25:NC:132:GLY:HA3	25:NC:163:MET:HB2	1.95	0.47
25:NG:230:SER:HA	25:NG:233:MET:HB2	1.96	0.47
24:NJ:184:PRO:HG3	24:NJ:394:LYS:HE3	1.96	0.47
25:NK:20:PHE:HA	25:NK:230:SER:HB2	1.96	0.47
25:NK:178:THR:OG1	25:NK:181:GLU:OE1	2.33	0.47
26:O2:116:VAL:HG22	26:O2:203:ALA:HB1	1.97	0.47
25:OG:404:ASP:OD1	25:OG:405:GLU:N	2.46	0.47
24:OH:327:ASP:O	24:OH:331:SER:N	2.45	0.47
24:OP:269:LEU:HD12	24:OP:270:SER:H	1.79	0.47
25:OQ:315:ALA:N	25:OQ:350:LYS:O	2.48	0.47
25:PG:42:LEU:HD22	25:PG:356:ILE:HD11	1.96	0.47
25:PM:237:THR:HB	25:PM:240:LEU:HD12	1.96	0.47
24:PN:101:ASN:HD22	24:PN:143:GLY:HA2	1.79	0.47
24:PN:326:LYS:O	24:PN:330:ALA:N	2.45	0.47
24:PP:186:ASN:OD1	24:PP:408:TYR:OH	2.30	0.47
25:PQ:396:HIS:HA	25:PQ:399:THR:HG22	1.96	0.47
28:Q0:3121:LYS:HA	28:Q0:3128:GLY:HA2	1.96	0.47
28:Q1:1170:GLU:HA	28:Q1:1173:MET:HG2	1.95	0.47
28:Q1:3198:ALA:HB3	28:Q1:3206:LEU:HD12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:QM:175:VAL:HG11	24:QN:329:ASN:HB3	1.95	0.47
25:QM:263:LEU:O	25:QM:370:ASN:ND2	2.47	0.47
24:RF:209:ILE:HD13	24:RF:231:ILE:HD11	1.96	0.47
24:RH:112:LYS:HA	24:RH:115:VAL:HG12	1.97	0.47
25:RI:184:ASN:OD1	25:RI:398:TYR:OH	2.33	0.47
24:RL:311:LYS:H	24:RL:382:THR:HG1	1.62	0.47
24:RP:426:ALA:HA	24:RP:429:GLU:HB2	1.95	0.47
24:SB:317:LEU:HB3	24:SB:319:TYR:HE1	1.79	0.47
24:TJ:396:ASP:HB2	24:TJ:422:ARG:HH21	1.79	0.47
25:TK:260:PHE:HB2	25:TK:263:LEU:HD13	1.96	0.47
24:TL:71:GLU:HB2	24:TL:98:ASP:HB3	1.96	0.47
24:TL:311:LYS:H	24:TL:382:THR:HG1	1.61	0.47
25:TO:274:THR:HG21	25:TO:282:ARG:HE	1.78	0.47
33:U0:186:ALA:HB1	33:U0:189:GLU:HG2	1.97	0.47
24:UB:356:ASN:OD1	24:UB:357:TYR:N	2.46	0.47
25:UC:178:THR:HG22	24:UD:352:LYS:HE2	1.97	0.47
24:UL:76:ASP:OD2	25:UM:46:ARG:NH2	2.48	0.47
25:UM:384:GLN:HG2	24:UN:348:PRO:HG2	1.94	0.47
24:VD:192:HIS:NE2	24:VD:420:GLU:OE1	2.47	0.47
24:VF:320:ARG:HA	24:VF:356:ASN:HB3	1.95	0.47
24:VH:291:ILE:HD13	24:VH:373:ARG:HG3	1.96	0.47
25:VI:205:GLU:HA	25:VI:208:TYR:HD1	1.79	0.47
24:VN:273:ALA:HB3	24:VN:375:VAL:HB	1.97	0.47
24:VN:278:ALA:HA	24:VN:369:ALA:HB2	1.97	0.47
24:VP:286:LEU:O	24:VP:373:ARG:NH1	2.48	0.47
24:WF:137:VAL:HG21	24:WF:154:LEU:HD21	1.95	0.47
24:WJ:192:HIS:NE2	24:WJ:424:ASP:OD2	2.48	0.47
25:WM:135:VAL:HG21	25:WM:152:ILE:HD11	1.96	0.47
24:WN:210:TYR:CD1	25:WO:324:LYS:HG2	2.49	0.47
39:X0:239:HIS:HD2	39:X0:261:CYS:HB3	1.80	0.47
39:X2:178:VAL:HG12	39:X2:198:LEU:HD11	1.97	0.47
39:X2:571:ARG:HG3	39:X2:575:LEU:HD23	1.96	0.47
39:X3:384:LEU:HD23	39:X3:488:ARG:HH11	1.79	0.47
24:XB:88:HIS:HE2	25:YC:278:SER:HG	1.63	0.47
24:XB:105:ARG:HA	24:XB:109:THR:HB	1.97	0.47
24:XN:9:ILE:HG13	24:XN:68:LEU:HD21	1.96	0.47
25:XO:396:HIS:HA	25:XO:399:THR:HG22	1.96	0.47
40:Y3:286:MET:N	40:Y3:335:SER:O	2.47	0.47
24:YD:141:VAL:O	24:YD:147:SER:OG	2.33	0.47
25:YG:391:ARG:NH2	24:YH:439:SER:OG	2.43	0.47
24:YN:229:ARG:HD3	24:YN:363:VAL:HG21	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:YO:385:PHE:HZ	25:YO:408:PHE:HD1	1.61	0.47
41:Z1:307:ARG:NH1	41:Z1:310:GLU:OE2	2.44	0.47
25:ZE:259:PRO:HG2	25:ZE:311:LEU:HD23	1.97	0.47
25:ZE:263:LEU:HD11	25:ZE:421:GLU:HG3	1.96	0.47
24:ZF:274:PRO:HD2	24:ZF:374:ALA:HA	1.96	0.47
25:ZI:396:HIS:CG	24:ZJ:263:PRO:HD3	2.49	0.47
24:ZP:251:ASP:OD1	24:ZP:252:ILE:N	2.48	0.47
2:1A:2286:ARG:HD2	2:1A:2288:TRP:CZ2	2.49	0.47
2:1B:1922:TRP:HZ3	18:C1:1929:LEU:HA	1.79	0.47
2:1B:2030:PHE:CZ	2:1B:2110:LEU:HD13	2.50	0.47
2:1C:1368:THR:OG1	2:1C:1370:LYS:NZ	2.43	0.47
2:1C:1908:VAL:HB	18:C2:1635:LEU:HD12	1.97	0.47
2:1D:1344:LYS:HA	2:1D:1435:ILE:HG13	1.97	0.47
2:1D:1915:LYS:O	2:1D:1919:ALA:HB2	2.15	0.47
6:2H:533:PHE:HA	6:2H:545:GLU:HA	1.97	0.47
13:7C:96:ALA:HB1	13:7C:117:ALA:HA	1.96	0.47
16:A1:90:SER:O	16:A1:96:ASN:ND2	2.47	0.47
18:C0:566:LEU:HD11	18:C0:1306:LEU:HB3	1.96	0.47
18:C0:1385:ALA:HB2	18:C0:1448:LEU:HD11	1.97	0.47
18:C1:553:TRP:HZ3	18:C1:1458:LEU:HA	1.79	0.47
18:C1:1286:GLN:HE21	18:C1:1338:LEU:HD11	1.79	0.47
18:C3:618:LYS:HE3	18:C3:763:ARG:HH21	1.80	0.47
19:D2:214:LEU:HD23	19:D2:217:LEU:HD12	1.97	0.47
19:D5:203:GLN:HA	19:D5:206:VAL:HG22	1.97	0.47
19:D5:308:ASN:HD22	19:D5:308:ASN:C	2.12	0.47
19:D7:149:LEU:HD12	19:D7:172:LEU:HD21	1.96	0.47
20:E3:354:VAL:HG21	23:N1:58:LYS:HB3	1.96	0.47
21:F2:121:VAL:HG12	21:F2:176:THR:HA	1.96	0.47
19:G1:393:SER:O	19:G1:397:LYS:HG2	2.14	0.47
19:H1:262:PHE:HD2	19:H1:267:VAL:HG21	1.80	0.47
19:H1:317:LEU:HA	19:H1:320:ILE:HG22	1.97	0.47
19:H4:268:LYS:HB3	19:H4:301:TYR:HE1	1.78	0.47
19:H4:386:LEU:HD22	19:H4:397:LYS:HG3	1.95	0.47
19:H7:260:LEU:HD22	19:H7:297:ALA:HB1	1.96	0.47
19:I0:196:LYS:HA	19:I0:235:GLN:HB3	1.96	0.47
19:J0:328:ALA:HB1	19:J0:363:ILE:HG23	1.96	0.47
19:J2:100:LYS:NZ	19:J2:133:CYS:SG	2.76	0.47
19:J2:337:LEU:HB3	19:J2:377:THR:HG21	1.97	0.47
19:K0:47:ARG:NH1	19:K0:83:GLU:OE2	2.48	0.47
19:K0:156:ASN:HB3	19:K0:159:LEU:HD23	1.97	0.47
19:K1:181:LEU:HB3	19:K1:185:ARG:NH1	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:K1:395:ASP:OD1	19:K1:396:LEU:N	2.48	0.47
19:K1:405:LYS:HD2	19:K1:449:ALA:HB2	1.97	0.47
19:K2:306:ALA:O	19:K2:310:ARG:NH1	2.47	0.47
19:L0:399:LYS:HG3	19:L0:402:ARG:HH21	1.79	0.47
19:L3:43:MET:HB3	19:L3:68:LEU:HD23	1.96	0.47
19:L3:490:TYR:HB3	19:L3:492:PRO:HD2	1.97	0.47
22:M0:716:GLU:HG3	29:R0:90:GLN:HB3	1.97	0.47
23:N1:116:SER:HB2	23:N1:119:VAL:HG22	1.96	0.47
23:N2:124:ASN:HB2	23:N2:164:ALA:HB1	1.95	0.47
24:NB:306:ASP:HB3	24:NB:309:HIS:CD2	2.50	0.47
24:ND:247:ALA:HB3	24:ND:355:ILE:HB	1.97	0.47
24:ND:251:ASP:H	24:ND:254:GLU:HG3	1.79	0.47
24:NH:384:ILE:HB	24:NH:432:PHE:HE2	1.78	0.47
25:NK:40:SER:HB2	25:NK:43:GLN:HG3	1.96	0.47
25:NK:191:GLN:O	25:NK:195:ASN:ND2	2.48	0.47
25:NK:259:PRO:HG2	25:NK:311:LEU:HD23	1.96	0.47
25:NK:375:GLN:NE2	25:NK:423:GLN:OE1	2.46	0.47
25:NM:249:ASP:OD1	25:NM:252:LYS:HG2	2.15	0.47
25:NM:330:MET:HB3	25:NM:349:VAL:HG11	1.97	0.47
24:NN:265:ILE:HG12	24:NN:432:PHE:HE1	1.79	0.47
25:NO:86:ARG:HG2	25:NO:88:ASP:H	1.80	0.47
26:O0:1860:ARG:N	26:O0:1890:CYS:O	2.47	0.47
25:OC:22:GLU:HA	25:OC:81:TYR:HD2	1.79	0.47
25:OE:134:GLN:NE2	25:OE:233:MET:SD	2.87	0.47
25:OE:232:VAL:HG23	25:OE:366:THR:HB	1.96	0.47
24:OF:166:LYS:HB2	24:OF:199:ASP:H	1.78	0.47
24:OH:12:ALA:HB3	24:OH:140:ALA:HB2	1.96	0.47
24:OH:210:TYR:O	25:OI:324:LYS:NZ	2.38	0.47
25:OI:31:ASP:HB3	25:OI:37:HIS:CD2	2.50	0.47
25:OK:8:GLN:HG2	25:OK:17:GLY:HA3	1.96	0.47
24:OL:137:VAL:HG21	24:OL:154:LEU:HD21	1.97	0.47
25:OO:83:GLN:O	25:PO:281:TYR:OH	2.28	0.47
25:OQ:3:GLU:HG3	25:OQ:127:CYS:HB2	1.96	0.47
24:PD:242:LEU:HD21	24:PD:251:ASP:HA	1.97	0.47
25:PE:207:LEU:HD12	25:PE:300:MET:HB2	1.95	0.47
24:PF:262:TYR:HD2	24:PF:265:ILE:HD11	1.80	0.47
24:PH:175:PRO:HD3	24:PH:390:ARG:HH21	1.80	0.47
25:PI:83:GLN:OE1	25:QI:281:TYR:OH	2.31	0.47
25:PI:385:PHE:HE2	25:PI:412:GLU:HB2	1.79	0.47
28:Q0:2568:HIS:HB2	28:Q0:2590:VAL:HG11	1.96	0.47
28:Q1:72:PHE:HA	28:Q1:75:LYS:HE2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Q1:2595:ARG:NH2	28:Q1:2630:GLN:OE1	2.47	0.47
25:QC:198:GLU:HG3	25:QC:258:ILE:HD11	1.97	0.47
24:QD:9:ILE:HD11	24:QD:153:LEU:HD23	1.97	0.47
25:QG:202:LEU:HD22	25:QG:229:ILE:HD12	1.97	0.47
24:QJ:9:ILE:HD11	24:QJ:153:LEU:HD23	1.96	0.47
24:QL:27:GLU:OE2	24:QL:358:GLN:NE2	2.46	0.47
24:QL:274:PRO:HD3	24:QL:291:ILE:HD12	1.96	0.47
25:QM:171:PRO:HG3	25:QM:181:GLU:HG2	1.96	0.47
25:QO:176:SER:OG	25:QO:178:THR:O	2.33	0.47
25:RC:58:ARG:HE	25:SC:281:TYR:HE1	1.61	0.47
24:RF:171:VAL:HG11	44:RF:501:GTP:H1'	1.96	0.47
24:RF:288:VAL:HG13	24:RF:319:TYR:HE2	1.80	0.47
25:RI:131:GLN:HE22	25:RI:251:ARG:HB2	1.79	0.47
24:RJ:214:ARG:NH1	24:RJ:220:GLU:OE2	2.47	0.47
24:RJ:327:ASP:HA	24:RJ:330:ALA:HB3	1.96	0.47
24:RL:123:ARG:NH2	24:RL:160:ASP:OD2	2.48	0.47
25:RM:207:LEU:HB3	25:RM:225:LEU:HG	1.96	0.47
25:RM:391:ARG:NH2	24:RN:437:ALA:O	2.39	0.47
24:RP:31:GLN:NE2	24:RP:35:GLN:O	2.48	0.47
24:SB:9:ILE:HG13	24:SB:68:LEU:HD21	1.95	0.47
25:SC:240:LEU:HD21	25:SC:250:LEU:HB2	1.95	0.47
24:SD:223:THR:OG1	24:SD:224:TYR:N	2.47	0.47
25:SE:85:PHE:HB2	25:SE:90:PHE:HE1	1.80	0.47
25:SE:215:LEU:HB3	25:SE:217:LEU:HG	1.96	0.47
25:SG:194:GLU:OE2	25:SG:195:ASN:ND2	2.48	0.47
25:SG:272:PRO:HG3	25:SG:364:SER:HA	1.97	0.47
25:SG:286:VAL:HG12	25:SG:289:LEU:HD12	1.96	0.47
24:SH:224:TYR:HD2	25:SI:323:THR:HG1	1.60	0.47
24:SH:260:VAL:HG23	24:SH:265:ILE:O	2.15	0.47
24:SH:319:TYR:HB3	24:SH:323:VAL:HG21	1.97	0.47
25:SI:246:LEU:HD22	25:SI:352:SER:HA	1.97	0.47
24:SJ:155:GLU:OE1	24:SJ:197:HIS:NE2	2.45	0.47
24:SL:3:GLU:OE2	24:SL:130:THR:N	2.48	0.47
24:SL:210:TYR:HE2	24:SL:227:LEU:HD11	1.80	0.47
24:TF:60:LYS:NZ	24:UF:282:TYR:O	2.47	0.47
24:TF:154:LEU:HD22	24:TF:198:THR:HG22	1.97	0.47
25:TI:114:ASP:OD1	25:TI:114:ASP:N	2.48	0.47
25:TM:176:SER:OG	25:TM:178:THR:O	2.33	0.47
24:TN:88:HIS:CE1	24:UN:280:LYS:HE3	2.49	0.47
25:TO:209:ASP:OD2	25:TO:213:ARG:NE	2.47	0.47
25:UC:68:LEU:HD12	25:UC:97:ALA:HB2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:UC:209:ASP:OD2	25:UC:213:ARG:NH1	2.48	0.47
25:UE:325:GLU:N	25:UE:325:GLU:OE2	2.48	0.47
25:UG:91:VAL:HG21	25:UG:116:VAL:HG23	1.96	0.47
24:UJ:310:GLY:HA3	24:UJ:383:ALA:HB2	1.97	0.47
25:UK:99:ASN:HA	25:UK:142:GLY:HA3	1.95	0.47
24:UL:70:LEU:HB2	24:UL:98:ASP:HA	1.96	0.47
25:UM:66:MET:HE1	25:UM:147:MET:HG2	1.97	0.47
25:UO:393:ALA:HB1	24:UP:261:PRO:HB3	1.96	0.47
24:VH:195:LEU:HD21	24:VH:428:LEU:HD13	1.95	0.47
25:VK:396:HIS:HA	25:VK:399:THR:HG22	1.96	0.47
25:VM:31:ASP:OD1	25:VM:35:THR:N	2.48	0.47
24:VN:76:ASP:HA	24:VN:79:ARG:HD2	1.96	0.47
25:VO:421:GLU:HA	25:VO:424:GLN:HG2	1.97	0.47
24:VP:25:CYS:O	24:VP:30:ILE:N	2.48	0.47
25:WA:375:GLN:NE2	25:WA:426:GLN:OE1	2.46	0.47
24:WD:3:GLU:OE2	24:WD:130:THR:OG1	2.31	0.47
25:WG:274:THR:OG1	25:WG:279:GLN:OE1	2.33	0.47
24:WJ:180:ALA:HB3	24:WJ:183:GLU:HG3	1.97	0.47
39:X1:166:THR:HA	39:X1:188:LEU:HA	1.96	0.47
39:X3:789:HIS:O	39:X3:817:GLU:HA	2.15	0.47
25:XA:161:ASP:OD2	25:XA:162:ARG:NH2	2.47	0.47
24:XB:169:PHE:HZ	24:XB:238:LEU:HD21	1.80	0.47
24:XD:47:ASP:N	24:XD:47:ASP:OD1	2.47	0.47
24:XF:262:TYR:HD2	24:XF:265:ILE:HD12	1.79	0.47
25:XI:210:ILE:O	25:XI:214:THR:OG1	2.22	0.47
24:XN:71:GLU:OE2	25:XO:2:ARG:NH2	2.48	0.47
24:XN:194:LEU:O	24:XN:198:THR:OG1	2.26	0.47
25:XO:207:LEU:HD13	25:XO:225:LEU:HB3	1.97	0.47
40:Y2:425:ILE:H	40:Y2:450:LYS:HZ3	1.63	0.47
40:Y4:59:ARG:HH22	40:Y4:200:HIS:HB3	1.79	0.47
40:Y4:456:ARG:HH22	40:Y5:76:ARG:HH22	1.63	0.47
40:Y5:313:GLN:OE1	40:Y5:315:LYS:NZ	2.40	0.47
24:YD:3:GLU:HA	24:YD:51:THR:HA	1.96	0.47
24:YD:88:HIS:O	24:YD:91:GLN:NE2	2.48	0.47
24:YD:133:GLN:HE22	24:YD:252:ILE:HB	1.80	0.47
25:YE:334:GLN:HE22	25:YE:348:ASN:H	1.63	0.47
25:YI:4:ILE:HB	25:YI:50:TYR:HE1	1.79	0.47
25:YI:64:ILE:HD12	25:YI:119:VAL:HG12	1.96	0.47
25:YM:100:ASN:ND2	25:YM:397:TRP:O	2.38	0.47
25:YO:4:ILE:HA	25:YO:132:GLY:O	2.14	0.47
25:YO:135:VAL:HG21	25:YO:152:ILE:HD11	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:YP:320:ARG:HH21	24:YP:358:GLN:HE21	1.63	0.47
41:Z1:16:TYR:HA	41:Z1:40:PRO:HA	1.97	0.47
41:Z2:285:GLN:HA	41:Z2:304:THR:HA	1.97	0.47
41:Z2:403:THR:HG22	41:Z2:424:THR:H	1.80	0.47
41:Z2:448:VAL:HG21	41:Z2:494:VAL:HG21	1.96	0.47
25:ZC:226:ASN:ND2	25:ZC:226:ASN:H	2.13	0.47
25:ZC:272:PRO:HG3	25:ZC:364:SER:HA	1.97	0.47
24:ZD:133:GLN:HG2	24:ZD:252:ILE:HD11	1.96	0.47
25:ZE:128:ASP:OD1	25:ZE:128:ASP:N	2.46	0.47
25:ZI:252:LYS:O	25:ZI:256:ASN:ND2	2.46	0.47
25:ZK:134:GLN:HE21	25:ZK:167:PHE:HE1	1.62	0.47
25:ZM:22:GLU:HA	25:ZM:81:TYR:HD2	1.78	0.47
25:ZO:313:ALA:HB1	25:ZO:367:PHE:HE2	1.78	0.47
2:1A:2146:ASN:OD1	2:1A:2150:THR:N	2.47	0.47
2:1C:2031:ARG:HE	2:1C:2163:GLN:HE22	1.60	0.47
2:1D:1448:MET:HE1	43:1D:2602:ANP:HN61	1.80	0.47
2:1D:2166:LEU:H	2:1D:2242:VAL:HG22	1.80	0.47
4:2A:210:ARG:HA	4:2A:213:GLN:HG3	1.97	0.47
4:2A:263:ARG:NH1	4:2A:264:TRP:O	2.48	0.47
14:8B:111:ARG:HH12	14:8B:115:ALA:HB2	1.80	0.47
16:A3:28:ILE:HG22	16:A3:30:GLY:H	1.80	0.47
18:C3:1358:VAL:HG11	18:C3:1382:LEU:HD21	1.96	0.47
18:C3:1634:PRO:HB2	18:C3:1637:ALA:HB2	1.96	0.47
18:C4:221:GLN:HA	18:C4:224:GLU:HG3	1.97	0.47
19:D5:306:ALA:H	19:D5:309:ASN:HD22	1.63	0.47
19:D7:115:PRO:HG3	19:D7:155:HIS:HB3	1.96	0.47
20:E0:426:TRP:HZ2	25:UI:90:PHE:HD2	1.62	0.47
20:E3:395:VAL:HG22	24:VN:338:LYS:HZ1	1.79	0.47
19:H0:214:LEU:HA	19:H0:217:LEU:HD13	1.97	0.47
19:H1:100:LYS:HG3	19:H1:141:VAL:HG21	1.96	0.47
19:H6:282:THR:HG23	19:H6:285:LEU:H	1.79	0.47
19:J2:380:LEU:HA	19:J2:383:LEU:HD12	1.97	0.47
19:L0:211:VAL:HG11	19:L0:247:VAL:HA	1.95	0.47
25:NC:284:LEU:HD23	25:NC:362:LYS:HE3	1.95	0.47
24:ND:194:LEU:O	24:ND:198:THR:OG1	2.26	0.47
25:NE:211:CYS:HA	25:NE:215:LEU:HB2	1.97	0.47
24:OH:73:THR:HA	25:OI:46:ARG:NH2	2.30	0.47
24:OJ:7:ILE:HD11	24:OJ:137:VAL:HG12	1.97	0.47
25:OO:385:PHE:HE2	25:OO:412:GLU:HB2	1.80	0.47
24:OP:394:LYS:NZ	25:OQ:346:PRO:O	2.48	0.47
25:OQ:21:TRP:HA	25:OQ:24:VAL:HG12	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:PE:272:PRO:HG3	25:PE:364:SER:HA	1.96	0.47
24:PL:230:LEU:HD22	24:PL:275:ILE:HG21	1.97	0.47
25:PM:134:GLN:HA	25:PM:165:LEU:HB2	1.97	0.47
24:PN:72:PRO:HD2	25:PO:2:ARG:HH12	1.80	0.47
24:PP:273:ALA:HB3	24:PP:375:VAL:H	1.79	0.47
28:Q0:2124:PHE:HB2	28:Q0:2175:LEU:HB3	1.97	0.47
24:QD:206:ASN:OD1	44:QD:501:GTP:O2'	2.30	0.47
24:QD:241:SER:OG	24:QD:250:VAL:N	2.39	0.47
25:QG:33:THR:O	25:QG:58:ARG:NH1	2.48	0.47
24:QJ:240:ALA:HA	24:QJ:243:ARG:HD3	1.97	0.47
24:QJ:274:PRO:HD2	24:QJ:374:ALA:HA	1.97	0.47
25:QK:259:PRO:HG2	25:QK:311:LEU:HD23	1.97	0.47
25:QM:293:MET:HG3	25:QM:367:PHE:HB2	1.95	0.47
25:QO:70:PRO:HA	25:QO:73:MET:HB3	1.96	0.47
25:RG:320:ARG:HD2	25:RG:355:ASP:HB2	1.96	0.47
25:RG:372:THR:OG1	25:RG:422:TYR:O	2.32	0.47
25:RI:55:THR:HG23	25:SI:283:ALA:HA	1.96	0.47
25:RK:31:ASP:OD1	25:RK:35:THR:N	2.46	0.47
25:RK:274:THR:HG22	25:RK:282:ARG:HH21	1.80	0.47
25:RM:215:LEU:HD11	25:RM:228:LEU:HD21	1.96	0.47
30:S2:115:GLN:NE2	25:VE:78:SER:O	2.48	0.47
25:SI:204:ASN:O	25:SI:208:TYR:N	2.48	0.47
25:SI:272:PRO:HG3	25:SI:364:SER:HA	1.97	0.47
24:TB:105:ARG:HG3	24:TB:411:GLU:HG2	1.95	0.47
24:TH:214:ARG:NH1	24:TH:215:ARG:HH12	2.13	0.47
25:TI:213:ARG:HH22	25:TI:297:LYS:HB3	1.78	0.47
24:TN:66:ILE:HD12	24:TN:68:LEU:HD22	1.97	0.47
33:U0:103:ARG:HG2	33:U0:127:PRO:HB2	1.96	0.47
25:UC:36:TYR:HB2	25:UC:59:TYR:HE2	1.80	0.47
25:UC:105:HIS:HD2	25:UC:150:LEU:HD12	1.79	0.47
25:UE:7:ILE:HD13	25:UE:151:LEU:HD21	1.96	0.47
25:UE:164:MET:HB3	25:UE:197:ASP:H	1.79	0.47
25:UG:31:ASP:OD1	25:UG:35:THR:N	2.48	0.47
25:UK:140:GLY:O	25:UK:184:ASN:ND2	2.41	0.47
25:UK:213:ARG:HD2	25:UK:297:LYS:HG2	1.96	0.47
34:V0:171:ARG:HA	34:V0:177:GLN:O	2.15	0.47
24:VH:276:ILE:HD12	24:VH:281:ALA:HA	1.97	0.47
25:VM:68:LEU:HD12	25:VM:97:ALA:HB2	1.97	0.47
25:VM:156:ARG:NH1	25:VM:195:ASN:O	2.45	0.47
25:VO:8:GLN:NE2	25:VO:136:CYS:SG	2.81	0.47
25:WA:210:ILE:O	25:WA:214:THR:OG1	2.26	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:WC:21:TRP:HA	25:WC:24:VAL:HG12	1.96	0.47
25:WC:176:SER:OG	25:WC:178:THR:O	2.32	0.47
24:WD:9:ILE:HG22	24:WD:146:GLY:HA2	1.96	0.47
24:WD:203:MET:HE1	24:WD:267:PHE:HB3	1.96	0.47
25:WE:31:ASP:OD2	25:WE:33:THR:OG1	2.32	0.47
24:WJ:112:LYS:HA	24:WJ:115:VAL:HG12	1.96	0.47
39:X0:104:GLU:OE2	39:X0:125:THR:OG1	2.31	0.47
24:XB:215:ARG:HH12	24:XB:299:ALA:HB1	1.80	0.47
25:XE:391:ARG:HE	25:XE:391:ARG:HB3	1.59	0.47
24:XF:207:GLU:HA	24:XF:210:TYR:HB2	1.97	0.47
25:XO:180:VAL:O	25:XO:184:ASN:ND2	2.38	0.47
40:Y2:446:GLU:N	40:Y3:445:SER:OG	2.48	0.47
40:Y3:360:VAL:HG22	40:Y3:383:ALA:HB3	1.97	0.47
40:Y3:427:ASP:HA	40:Y3:430:VAL:HB	1.97	0.47
40:Y6:32:LEU:HD11	40:Y7:15:LYS:HZ1	1.78	0.47
40:Y6:385:LEU:HD11	40:Y6:414:SER:HB2	1.97	0.47
25:YG:135:VAL:HG23	25:YG:166:THR:HA	1.97	0.47
25:YI:313:ALA:HB3	25:YI:349:VAL:HG22	1.97	0.47
24:YJ:273:ALA:HB3	24:YJ:375:VAL:HB	1.96	0.47
41:Z1:160:GLN:NE2	41:Z1:164:ASP:OD1	2.45	0.47
41:Z1:342:LEU:HD12	41:Z1:347:THR:HB	1.97	0.47
24:ZJ:209:ILE:HG22	24:ZJ:227:LEU:HD22	1.96	0.47
24:ZJ:222:PRO:HG2	25:ZK:324:LYS:NZ	2.30	0.47
2:1A:1801:LEU:HD12	2:1A:1904:ALA:HB2	1.95	0.47
2:1D:2289:VAL:HG21	2:1D:2300:VAL:HG21	1.97	0.47
4:2A:182:ILE:HG12	25:PQ:106:TYR:HB3	1.97	0.47
13:7C:146:LEU:HA	13:7C:160:GLN:HA	1.96	0.47
17:B2:452:ASN:ND2	25:RC:401:GLU:HA	2.30	0.47
18:C3:1284:LEU:HD13	18:C3:1466:MET:HG2	1.96	0.47
19:D0:262:PHE:HD2	19:D0:267:VAL:HG21	1.80	0.47
19:D0:299:VAL:HA	19:D0:302:ILE:HG22	1.97	0.47
19:D5:242:ASP:N	19:D5:242:ASP:OD1	2.47	0.47
19:D7:248:VAL:HG21	19:D7:285:LEU:HD22	1.97	0.47
20:E1:395:VAL:HG13	24:VF:338:LYS:HD2	1.97	0.47
19:G2:227:ARG:HB2	19:G2:267:VAL:HG12	1.97	0.47
19:H4:264:ASP:HB3	19:H4:267:VAL:HG22	1.96	0.47
19:H4:348:PRO:HB2	19:H4:352:LEU:HD12	1.97	0.47
19:I0:257:LEU:O	19:I0:261:LYS:NZ	2.39	0.47
19:J3:69:ALA:O	19:J3:113:HIS:NE2	2.32	0.47
19:K3:117:LEU:HG	19:K3:120:SER:HB2	1.96	0.47
19:L1:421:VAL:HG23	19:L1:423:ARG:H	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:ND:214:ARG:HD2	24:ND:215:ARG:HD2	1.95	0.47
24:ND:258:ASN:HD21	24:ND:352:LYS:HB2	1.79	0.47
24:NH:274:PRO:HB3	24:NH:371:VAL:HG11	1.97	0.47
25:NO:237:THR:HG23	25:NO:241:ARG:HE	1.80	0.47
25:NO:239:CYS:HB3	25:NO:248:ALA:H	1.79	0.47
25:OE:217:LEU:HB3	25:OE:220:PRO:HG3	1.97	0.47
25:OI:49:VAL:HG21	25:OI:241:ARG:HG2	1.97	0.47
24:OJ:132:LEU:HD22	24:OJ:164:LYS:HD2	1.96	0.47
25:OK:263:LEU:O	25:OK:370:ASN:ND2	2.44	0.47
24:ON:326:LYS:O	24:ON:330:ALA:N	2.44	0.47
24:PD:162:GLY:O	24:PD:164:LYS:NZ	2.47	0.47
25:PE:211:CYS:HA	25:PE:215:LEU:HB2	1.97	0.47
24:PJ:88:HIS:CE1	24:QJ:284:GLU:HG2	2.44	0.47
24:PL:325:PRO:HA	24:PL:328:VAL:HG12	1.97	0.47
25:PM:52:ASN:ND2	25:PM:123:GLU:OE2	2.48	0.47
25:PQ:294:TRP:CD1	25:PQ:333:VAL:HG21	2.49	0.47
28:Q1:2571:ALA:HB1	28:Q1:2587:LEU:HD22	1.96	0.47
25:QC:390:ARG:HD2	25:QC:391:ARG:HG2	1.97	0.47
25:QC:396:HIS:HA	25:QC:399:THR:HG22	1.95	0.47
25:QE:253:LEU:HD11	25:QE:316:LEU:HD11	1.97	0.47
25:QK:31:ASP:OD1	25:QK:35:THR:N	2.48	0.47
25:QQ:31:ASP:OD1	25:QQ:35:THR:N	2.48	0.47
25:QQ:144:GLY:N	46:QQ:501:GDP:O2B	2.41	0.47
29:R0:2427:LEU:O	29:R0:2431:ALA:N	2.48	0.47
24:RH:9:ILE:HG13	24:RH:68:LEU:HD21	1.97	0.47
25:RK:1:MET:HA	25:RK:48:ASN:HD21	1.79	0.47
24:RL:2:ARG:NE	24:RL:242:LEU:O	2.47	0.47
24:SD:3:GLU:HA	24:SD:51:THR:HA	1.96	0.47
24:SD:143:GLY:O	24:SD:147:SER:N	2.45	0.47
24:SF:71:GLU:HB2	24:SF:98:ASP:HB3	1.97	0.47
24:SH:167:LEU:HB3	24:SH:169:PHE:HE2	1.78	0.47
24:SJ:224:TYR:HE2	25:SK:323:THR:HG21	1.80	0.47
24:SL:315:CYS:HA	24:SL:379:SER:HA	1.96	0.47
25:SM:135:VAL:HG21	25:SM:152:ILE:HD11	1.96	0.47
24:SN:6:SER:HA	24:SN:136:LEU:HB2	1.96	0.47
24:SP:71:GLU:HG3	24:SP:73:THR:HG22	1.96	0.47
25:TC:143:THR:OG1	46:TC:501:GDP:O2B	2.28	0.47
25:TK:204:ASN:O	25:TK:208:TYR:N	2.46	0.47
24:TL:288:VAL:HG13	24:TL:319:TYR:HE2	1.80	0.47
24:TN:166:LYS:H	24:TN:199:ASP:HB3	1.79	0.47
24:TN:306:ASP:OD1	24:TN:309:HIS:ND1	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:TO:293:MET:HB3	25:TO:294:TRP:CE3	2.50	0.47
24:UB:180:ALA:HB3	24:UB:183:GLU:HG3	1.97	0.47
25:UG:36:TYR:OH	25:UG:40:SER:O	2.32	0.47
24:UH:98:ASP:N	24:UH:98:ASP:OD2	2.44	0.47
24:UL:2:ARG:HG3	24:UL:242:LEU:HB3	1.97	0.47
24:UL:130:THR:OG1	24:UL:131:GLY:N	2.48	0.47
24:VB:286:LEU:O	24:VB:373:ARG:NH1	2.47	0.47
24:VF:79:ARG:NH2	24:VF:92:LEU:O	2.47	0.47
24:VH:401:LYS:NZ	25:VI:431:GLU:OE1	2.48	0.47
24:VL:313:MET:HB2	24:VL:380:ASN:HB3	1.96	0.47
24:VP:384:ILE:HG23	24:VP:387:ILE:HD12	1.97	0.47
24:WB:90:GLU:OE2	24:WB:91:GLN:NE2	2.48	0.47
24:WB:272:TYR:HB3	24:WB:275:ILE:HD11	1.97	0.47
25:WC:2:ARG:HA	25:WC:129:CYS:HB2	1.97	0.47
24:WD:274:PRO:HD3	24:WD:291:ILE:HB	1.95	0.47
25:WG:91:VAL:HG11	25:WG:116:VAL:HG12	1.97	0.47
25:WI:139:LEU:HD12	25:WI:170:VAL:HG22	1.96	0.47
24:WL:112:LYS:HA	24:WL:115:VAL:HG12	1.97	0.47
39:X1:643:ILE:O	39:X1:665:TRP:NE1	2.47	0.47
24:XF:3:GLU:HA	24:XF:51:THR:HA	1.97	0.47
24:XH:273:ALA:HB3	24:XH:375:VAL:H	1.80	0.47
24:XH:384:ILE:HB	24:XH:432:PHE:HE2	1.80	0.47
24:XJ:304:LYS:HD2	24:XJ:304:LYS:HA	1.76	0.47
24:XJ:318:MET:HB2	24:XJ:376:CYS:HB3	1.97	0.47
25:XK:167:PHE:HZ	25:XK:236:ILE:HG13	1.79	0.47
24:XL:269:LEU:N	24:XL:379:SER:O	2.47	0.47
24:XL:275:ILE:HG23	24:XL:368:LEU:HD21	1.97	0.47
24:XN:164:LYS:O	24:XN:166:LYS:NZ	2.36	0.47
40:Y1:80:PRO:HB2	40:Y1:416:ARG:HB2	1.97	0.47
40:Y6:190:PRO:HB3	40:Y6:451:TYR:CE2	2.50	0.47
24:YB:164:LYS:HE2	24:YB:164:LYS:HB2	1.73	0.47
24:YF:3:GLU:OE1	24:YF:131:GLY:N	2.42	0.47
25:YI:49:VAL:HG11	25:YI:241:ARG:HG2	1.96	0.47
24:YJ:137:VAL:HG21	24:YJ:154:LEU:HD21	1.95	0.47
24:YJ:274:PRO:HD2	24:YJ:374:ALA:HA	1.96	0.47
24:YN:16:VAL:O	24:YN:20:CYS:N	2.45	0.47
41:Z1:519:ASP:OD1	41:Z1:519:ASP:N	2.48	0.47
41:Z3:43:VAL:HG11	41:Z3:121:ILE:HD12	1.97	0.47
41:Z3:453:ARG:O	41:Z3:459:ASN:ND2	2.39	0.47
41:Z3:610:ASN:OD1	41:Z3:611:PRO:HD3	2.15	0.47
24:ZL:206:ASN:HB3	24:ZL:210:TYR:HE2	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1A:2156:ILE:HG22	2:1A:2300:VAL:HG22	1.96	0.47
16:A1:65:ASP:OD2	16:A1:70:ARG:NH1	2.48	0.47
18:C2:39:ASN:HB3	18:C2:40:LEU:HD12	1.96	0.47
18:C2:318:ALA:HA	18:C2:321:LYS:HE3	1.96	0.47
19:D6:380:LEU:HD23	19:D6:383:LEU:HD12	1.96	0.47
19:G1:101:GLN:HG3	19:G1:141:VAL:HB	1.97	0.47
19:G1:112:ARG:HB3	19:G1:151:TYR:CD2	2.50	0.47
19:G3:170:PRO:HA	19:G3:173:VAL:HG22	1.97	0.47
19:I1:133:CYS:HB3	19:I1:141:VAL:HG22	1.97	0.47
19:J0:184:LYS:HD3	19:J0:217:LEU:HD22	1.98	0.47
19:J3:147:TRP:HA	19:J3:186:ILE:HD11	1.96	0.47
19:J3:332:ILE:HD11	19:J3:363:ILE:HD13	1.96	0.47
19:K1:253:PHE:HA	19:K1:256:ILE:HD12	1.96	0.47
24:NH:271:SER:HB2	24:NH:377:MET:HB3	1.96	0.47
25:OC:91:VAL:HG11	25:OC:116:VAL:HG12	1.97	0.47
25:OI:289:LEU:HD21	25:OI:363:MET:HB3	1.97	0.47
24:OJ:88:HIS:CE1	24:OJ:90:GLU:HG2	2.49	0.47
25:OK:2:ARG:HB3	25:OK:131:GLN:HB2	1.96	0.47
25:OK:3:GLU:HG2	25:OK:127:CYS:HB2	1.98	0.47
24:OL:420:GLU:HA	24:OL:423:GLU:HG3	1.96	0.47
24:ON:67:PHE:HB2	24:ON:92:LEU:HG	1.97	0.47
24:PF:178:SER:O	25:PG:347:ASN:ND2	2.46	0.47
25:PG:247:ASN:HD22	25:PG:247:ASN:C	2.15	0.47
25:PO:222:PHE:HA	25:PO:225:LEU:HB2	1.96	0.47
24:QD:276:ILE:HD12	24:QD:281:ALA:HA	1.97	0.47
24:QL:71:GLU:HG2	24:QL:73:THR:HG22	1.97	0.47
25:RG:156:ARG:NH1	25:RG:195:ASN:O	2.44	0.47
24:RJ:182:VAL:HG22	24:RJ:185:TYR:HB2	1.96	0.47
24:RN:185:TYR:HB3	24:RN:408:TYR:HE2	1.80	0.47
30:S0:50:TRP:NE1	24:XN:357:TYR:O	2.44	0.47
25:SC:140:GLY:O	25:SC:184:ASN:ND2	2.46	0.47
24:SF:269:LEU:HD21	24:SF:384:ILE:HG12	1.96	0.47
24:SJ:65:CYS:O	24:SJ:91:GLN:NE2	2.48	0.47
24:SP:9:ILE:HG13	24:SP:139:ASN:HB3	1.96	0.47
24:TD:202:VAL:HG22	24:TD:268:MET:HB2	1.97	0.47
24:TD:317:LEU:HB3	24:TD:319:TYR:HE1	1.80	0.47
24:TJ:306:ASP:HB3	24:TJ:309:HIS:CE1	2.50	0.47
25:TO:248:ALA:HA	25:TO:252:LYS:HG3	1.96	0.47
25:UE:139:LEU:HD12	25:UE:170:VAL:HG12	1.97	0.47
25:UM:156:ARG:NH1	25:UM:160:PRO:O	2.44	0.47
25:UM:392:LYS:HA	25:UM:395:LEU:HD12	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:UO:113:ILE:HG13	25:UO:150:LEU:HD23	1.95	0.47
24:VL:214:ARG:HH22	24:VL:215:ARG:HB2	1.80	0.47
24:VN:228:ASN:OD1	44:VN:501:GTP:N1	2.44	0.47
24:VP:240:ALA:HA	24:VP:243:ARG:HE	1.80	0.47
25:WA:257:LEU:HD21	25:WA:314:SER:HB3	1.97	0.47
25:WE:204:ASN:OD1	46:WE:501:GDP:O2'	2.33	0.47
24:WF:28:HIS:HE1	24:WF:243:ARG:HD2	1.80	0.47
25:WM:2:ARG:HB3	25:WM:131:GLN:HB2	1.97	0.47
24:WN:319:TYR:HB3	24:WN:323:VAL:HG21	1.97	0.47
24:XF:209:ILE:HG23	24:XF:230:LEU:HD11	1.97	0.47
24:XL:264:ARG:HH21	24:XL:431:ASP:HB2	1.80	0.47
40:Y3:385:LEU:HD11	40:Y3:414:SER:HB3	1.97	0.47
40:Y5:46:GLU:OE1	40:Y5:71:ARG:NH1	2.47	0.47
40:Y6:3:VAL:HG13	40:Y7:24:VAL:HG21	1.97	0.47
24:YB:286:LEU:HD13	24:YB:371:VAL:HG23	1.96	0.47
25:YI:184:ASN:OD1	25:YI:398:TYR:OH	2.29	0.47
25:YI:253:LEU:HD11	25:YI:316:LEU:HD21	1.96	0.47
25:YO:358:PRO:HG2	25:YO:361:LEU:HD13	1.97	0.47
41:Z1:370:ASN:HD21	41:Z1:372:ASP:HB2	1.79	0.47
41:Z1:402:VAL:HG12	41:Z1:425:THR:HA	1.96	0.47
25:ZG:61:PRO:HD3	25:ZG:84:ILE:HG13	1.96	0.47
25:ZI:237:THR:HB	25:ZI:240:LEU:HD12	1.97	0.47
25:ZI:290:THR:HG21	25:ZI:329:GLN:HB3	1.96	0.47
25:ZK:257:LEU:HD11	25:ZK:314:SER:HB2	1.96	0.47
24:ZL:320:ARG:NH2	24:ZL:358:GLN:OE1	2.43	0.47
2:1A:1443:SER:OG	2:1A:1444:ASP:N	2.48	0.46
2:1A:1708:LEU:HD13	2:1A:1833:GLU:HB2	1.97	0.46
2:1B:1922:TRP:CE3	18:C1:1928:ARG:HG3	2.50	0.46
2:1B:2054:ARG:HD2	2:1B:2054:ARG:H	1.80	0.46
2:1D:1579:LEU:O	2:1D:1703:VAL:HA	2.15	0.46
2:1D:2156:ILE:HG22	2:1D:2300:VAL:HG22	1.97	0.46
4:2B:243:PRO:HB2	4:2B:321:VAL:HG21	1.97	0.46
14:8C:70:LEU:HA	24:WH:47:ASP:HB3	1.96	0.46
18:C1:565:LEU:H	18:C1:1446:ARG:HH22	1.62	0.46
18:C2:595:ARG:HG3	18:C2:765:PHE:CE1	2.50	0.46
18:C2:1925:VAL:HG13	18:C2:1928:ARG:HD3	1.97	0.46
19:D5:115:PRO:HG3	19:D5:155:HIS:HB3	1.98	0.46
19:D6:95:GLN:HB3	19:D6:99:TYR:HD2	1.79	0.46
19:D7:353:LYS:HA	19:D7:356:THR:HG22	1.97	0.46
19:H0:223:ALA:HA	19:H0:226:LYS:HG2	1.96	0.46
19:I1:95:GLN:HG2	19:I1:100:LYS:HD2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:J0:283:PRO:HB3	19:J0:323:PHE:HB3	1.96	0.46
19:J2:328:ALA:HB1	19:J2:363:ILE:HG23	1.96	0.46
19:L0:424:GLN:HB3	19:L0:453:HIS:CE1	2.49	0.46
25:NC:156:ARG:HH22	25:NC:197:ASP:HB2	1.79	0.46
25:NM:308:GLY:H	25:NM:373:ALA:HB2	1.79	0.46
24:NN:75:VAL:HG21	24:NN:94:SER:HA	1.96	0.46
26:O1:388:ARG:HA	26:O1:391:GLU:HG3	1.97	0.46
25:OC:330:MET:HG2	25:OC:349:VAL:HG11	1.97	0.46
24:OJ:273:ALA:HB3	24:OJ:375:VAL:H	1.80	0.46
24:OL:223:THR:HB	25:OM:322:SER:HA	1.97	0.46
25:OM:67:ASP:OD2	25:OM:72:THR:OG1	2.26	0.46
24:PD:187:SER:O	24:PD:191:THR:OG1	2.27	0.46
25:PE:99:ASN:HD22	25:PE:178:THR:HG21	1.79	0.46
25:QC:31:ASP:OD1	25:QC:35:THR:N	2.48	0.46
25:QM:135:VAL:HG21	25:QM:152:ILE:HD11	1.96	0.46
25:QO:68:LEU:HD13	25:QO:143:THR:HG23	1.97	0.46
25:QQ:21:TRP:HA	25:QQ:24:VAL:HG12	1.96	0.46
24:RH:298:PRO:HA	24:RH:301:MET:HG2	1.97	0.46
25:RI:271:THR:O	25:RI:273:LEU:N	2.47	0.46
25:RK:112:LEU:HB3	25:RK:147:MET:HE1	1.97	0.46
24:SD:251:ASP:OD1	24:SD:252:ILE:N	2.45	0.46
25:SE:318:ARG:HG2	25:SE:354:CYS:HB3	1.96	0.46
25:SE:407:GLU:HA	25:SE:410:GLU:HG3	1.96	0.46
25:SM:54:ALA:HA	25:TM:283:ALA:HB2	1.96	0.46
24:SN:144:GLY:HA2	24:SN:147:SER:HB2	1.97	0.46
24:TD:271:SER:OG	24:TD:301:MET:SD	2.73	0.46
24:TF:305:CYS:HB2	24:TF:387:ILE:HD11	1.98	0.46
24:TJ:9:ILE:HB	24:TJ:139:ASN:HB3	1.97	0.46
25:TK:21:TRP:O	25:TK:25:SER:OG	2.28	0.46
24:TL:3:GLU:HA	24:TL:51:THR:HA	1.97	0.46
25:TM:213:ARG:HH22	25:TM:297:LYS:HB3	1.80	0.46
24:UJ:181:VAL:HG23	25:UK:350:LYS:HB2	1.96	0.46
24:UN:50:ASN:O	24:UN:64:ARG:NH2	2.39	0.46
24:VB:2:ARG:HG3	24:VB:242:LEU:HB3	1.96	0.46
25:VI:107:THR:OG1	25:VI:108:GLU:OE1	2.28	0.46
24:VJ:209:ILE:HA	24:VJ:212:ILE:HG12	1.97	0.46
25:WA:54:ALA:HA	25:XA:283:ALA:HB2	1.97	0.46
25:WE:176:SER:HB3	24:WF:351:PHE:HB2	1.98	0.46
24:WH:320:ARG:HH21	24:WH:360:PRO:HA	1.80	0.46
25:WI:125:GLU:OE2	25:XI:336:LYS:NZ	2.44	0.46
25:WO:20:PHE:HA	25:WO:230:SER:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:XE:3:GLU:HG2	25:XE:127:CYS:HB2	1.98	0.46
25:XE:272:PRO:HG3	25:XE:364:SER:HA	1.97	0.46
40:Y2:358:GLN:OE1	40:Y2:473:ARG:NH2	2.48	0.46
40:Y3:19:VAL:HG21	40:Y3:39:LEU:HD12	1.97	0.46
40:Y4:214:PRO:HA	40:Y4:282:VAL:HG22	1.97	0.46
24:YF:167:LEU:HG	24:YF:252:ILE:HD11	1.97	0.46
25:YK:121:ARG:NH2	25:YK:158:GLU:OE2	2.47	0.46
24:YL:137:VAL:HG11	24:YL:154:LEU:HD11	1.96	0.46
25:ZE:186:THR:HG23	25:ZE:381:VAL:HG12	1.97	0.46
25:ZK:86:ARG:HG2	25:ZK:88:ASP:H	1.78	0.46
24:ZP:70:LEU:HB3	24:ZP:98:ASP:HA	1.96	0.46
2:1A:1322:LEU:HD21	2:1A:1325:PHE:HB3	1.96	0.46
2:1D:1411:ASP:OD1	2:1D:1412:GLU:N	2.48	0.46
2:1D:1899:ASP:OD1	2:1D:1899:ASP:N	2.48	0.46
4:2B:188:ARG:HH21	25:PI:191:GLN:HE22	1.62	0.46
6:2I:166:PRO:HA	6:2I:182:ARG:HA	1.97	0.46
17:B1:309:ASP:HA	17:B1:312:ARG:HE	1.81	0.46
18:C1:205:ARG:HG3	25:VO:106:TYR:CE1	2.50	0.46
18:C2:1383:ALA:O	18:C2:1387:THR:HG23	2.14	0.46
19:D1:306:ALA:HB3	19:D1:309:ASN:HD22	1.79	0.46
19:D3:354:SER:HB2	19:D3:396:LEU:HD21	1.96	0.46
19:D5:182:SER:HA	19:D5:185:ARG:HG2	1.97	0.46
19:D5:226:LYS:HA	19:D5:229:VAL:HG22	1.97	0.46
20:E1:364:PHE:HE2	25:VG:294:TRP:HB3	1.80	0.46
20:E3:106:ILE:HD11	20:E3:123:THR:HG21	1.96	0.46
19:G3:240:SER:OG	19:G3:242:ASP:OD1	2.30	0.46
19:G4:332:ILE:HD12	19:G4:337:LEU:HG	1.97	0.46
19:H1:24:VAL:HG12	19:H1:64:ALA:HB1	1.96	0.46
19:H1:268:LYS:HB3	19:H1:301:TYR:HE1	1.80	0.46
19:H3:85:LEU:HD23	19:H3:88:LEU:HD12	1.97	0.46
19:I0:170:PRO:HA	19:I0:173:VAL:HG12	1.97	0.46
19:K2:138:ASP:HB3	19:K2:141:VAL:HG22	1.97	0.46
19:L1:138:ASP:HB3	19:L1:141:VAL:HG22	1.97	0.46
22:M1:170:PRO:HG3	22:M1:198:ARG:HH11	1.80	0.46
24:NB:105:ARG:HG3	24:NB:411:GLU:HG2	1.96	0.46
25:NC:272:PRO:HA	25:NC:282:ARG:HH22	1.80	0.46
25:NG:113:ILE:HA	25:NG:116:VAL:HG12	1.97	0.46
24:NL:17:GLY:HA2	24:NL:20:CYS:HB2	1.97	0.46
26:O0:379:GLU:HA	26:O0:382:THR:HG22	1.96	0.46
24:OH:265:ILE:HG13	24:OH:380:ASN:HD21	1.79	0.46
24:OJ:217:LEU:HD21	24:OJ:367:ASP:HB2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:OP:251:ASP:H	24:OP:254:GLU:HB2	1.80	0.46
25:PG:316:LEU:HB2	25:PG:366:THR:HB	1.96	0.46
24:PH:398:MET:HG3	25:PI:345:ILE:HD13	1.97	0.46
25:PI:329:GLN:HA	25:PI:332:ASN:HB2	1.97	0.46
28:Q0:2478:LEU:O	28:Q0:2482:ARG:HG2	2.15	0.46
28:Q1:3199:LEU:HD11	28:Q1:3217:LEU:HD21	1.97	0.46
25:QI:309:ARG:HG3	25:QI:426:GLN:HE22	1.80	0.46
29:R0:152:TRP:HA	29:R0:155:VAL:HG12	1.97	0.46
29:R1:2737:GLY:H	29:R1:2744:ALA:HB2	1.79	0.46
25:RO:14:ASN:ND2	25:RO:73:MET:SD	2.89	0.46
25:SK:63:ALA:O	25:SK:89:ASN:ND2	2.48	0.46
25:SM:272:PRO:HG3	25:SM:364:SER:HA	1.98	0.46
24:TB:2:ARG:HB3	24:TB:242:LEU:HD22	1.98	0.46
24:TF:170:THR:HG21	24:TF:194:LEU:HD21	1.98	0.46
24:TJ:71:GLU:HB2	24:TJ:98:ASP:HB3	1.96	0.46
25:TK:258:ILE:HD12	25:TK:264:HIS:HB3	1.97	0.46
24:UF:238:LEU:HA	24:UF:318:MET:HG3	1.97	0.46
24:UH:147:SER:HB2	24:UH:190:SER:HB2	1.98	0.46
25:UK:101:TRP:CE2	25:UK:187:LEU:HB3	2.50	0.46
24:VB:238:LEU:HD22	24:VB:378:ILE:HD11	1.96	0.46
25:VG:272:PRO:HG2	25:VG:361:LEU:HD13	1.97	0.46
25:VI:237:THR:HG23	25:VI:240:LEU:HD12	1.96	0.46
24:VL:298:PRO:HB3	24:VL:307:PRO:HD2	1.97	0.46
25:VM:226:ASN:OD1	46:VM:501:GDP:N1	2.38	0.46
25:VO:345:ILE:O	25:VO:348:ASN:ND2	2.48	0.46
24:VP:269:LEU:HD21	24:VP:384:ILE:HG12	1.96	0.46
24:WD:265:ILE:HG22	24:WD:380:ASN:HD21	1.79	0.46
24:WF:188:VAL:HG13	24:WF:425:LEU:HD13	1.96	0.46
25:WG:31:ASP:OD1	25:WG:35:THR:N	2.48	0.46
25:WI:294:TRP:CG	25:WI:333:VAL:HG21	2.51	0.46
39:X0:149:SER:HA	39:X0:171:ALA:H	1.80	0.46
24:XD:265:ILE:HG12	24:XD:432:PHE:HE1	1.79	0.46
25:XG:203:ASP:OD1	25:XG:204:ASN:N	2.47	0.46
24:XJ:49:PHE:HE2	24:XJ:55:GLU:HB2	1.80	0.46
25:XM:179:VAL:HG23	24:XN:350:GLY:HA2	1.96	0.46
40:Y1:286:MET:N	40:Y1:335:SER:O	2.47	0.46
40:Y4:385:LEU:HD11	40:Y4:414:SER:HB2	1.96	0.46
24:YB:222:PRO:HD2	25:YC:324:LYS:HD2	1.98	0.46
24:YH:51:THR:HG21	24:YH:243:ARG:HG2	1.96	0.46
24:YJ:320:ARG:HD3	24:YJ:360:PRO:HG3	1.96	0.46
41:Z0:241:GLU:HA	41:Z0:244:VAL:HB	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:Z3:117:LYS:HB2	41:Z3:120:GLU:HG3	1.98	0.46
41:Z3:349:ILE:HG22	41:Z3:351:LYS:H	1.80	0.46
24:ZB:68:LEU:HA	24:ZB:93:ILE:HB	1.96	0.46
25:ZC:135:VAL:HG21	25:ZC:152:ILE:HD11	1.96	0.46
24:ZJ:251:ASP:HB3	24:ZJ:254:GLU:HG2	1.97	0.46
24:ZN:403:ALA:HB2	25:ZO:344:TRP:HZ3	1.79	0.46
2:1B:1580:VAL:HG22	2:1B:1704:VAL:HB	1.97	0.46
2:1C:2029:LEU:HB2	2:1C:2093:ALA:HB3	1.97	0.46
9:3M:111:ARG:O	9:3M:115:SER:N	2.48	0.46
16:A1:74:TRP:HZ2	25:YM:294:TRP:HB3	1.79	0.46
17:B2:463:ARG:HD3	25:RC:191:GLN:HE22	1.79	0.46
18:C0:1663:SER:HA	18:C0:1765:ARG:HE	1.80	0.46
18:C1:205:ARG:NH2	25:VO:401:GLU:O	2.47	0.46
18:C1:1349:LYS:HE2	18:C1:1383:ALA:HB1	1.97	0.46
18:C1:1751:LEU:HD11	18:C1:1775:LEU:HD21	1.97	0.46
18:C2:1900:GLN:O	18:C2:1904:SER:HB3	2.14	0.46
18:C3:403:ARG:HA	18:C3:406:ARG:HG2	1.98	0.46
18:C3:1769:ARG:HH11	18:C3:1809:ARG:HG2	1.79	0.46
18:C4:100:ASN:O	18:C4:104:ILE:HG13	2.16	0.46
19:D1:241:VAL:HG12	19:D1:281:HIS:HB3	1.97	0.46
19:D1:265:GLU:HA	19:D1:268:LYS:HB2	1.97	0.46
19:D3:248:VAL:HG11	19:D3:285:LEU:HD22	1.96	0.46
19:G3:237:ALA:O	19:G3:281:HIS:NE2	2.45	0.46
19:H4:214:LEU:HA	19:H4:217:LEU:HD13	1.96	0.46
19:H5:235:GLN:HA	19:H5:238:LYS:NZ	2.30	0.46
19:I1:100:LYS:HB3	19:I1:141:VAL:HG21	1.98	0.46
19:J3:276:ARG:HD3	19:J3:312:PRO:HA	1.98	0.46
19:L0:283:PRO:HB3	19:L0:323:PHE:HB3	1.96	0.46
19:L0:450:GLN:HA	19:L0:453:HIS:HD2	1.79	0.46
19:L1:95:GLN:HG2	19:L1:96:ASN:H	1.80	0.46
19:L1:180:GLU:OE1	19:L1:183:LEU:N	2.45	0.46
25:NC:171:PRO:HB3	25:NC:181:GLU:HB3	1.97	0.46
24:NF:9:ILE:HD11	24:NF:153:LEU:HD22	1.97	0.46
25:NK:162:ARG:HH21	25:NK:251:ARG:HH12	1.63	0.46
24:NL:89:PRO:HD2	24:ON:280:LYS:NZ	2.31	0.46
26:O0:323:ALA:HA	26:O0:326:GLN:HG3	1.95	0.46
24:OD:178:SER:OG	24:OD:180:ALA:O	2.33	0.46
25:OK:67:ASP:OD1	25:OK:68:LEU:N	2.49	0.46
24:OL:169:PHE:HZ	24:OL:238:LEU:HD13	1.80	0.46
24:PH:88:HIS:HB3	24:PH:91:GLN:HE22	1.80	0.46
24:PH:193:SER:O	24:PH:197:HIS:ND1	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:PO:312:THR:HA	25:PO:348:ASN:HB3	1.98	0.46
25:PQ:67:ASP:OD1	25:PQ:67:ASP:N	2.48	0.46
28:Q0:623:GLN:NE2	28:Q0:631:GLN:HG2	2.30	0.46
28:Q0:2050:LEU:HD11	28:Q0:2084:LEU:HD13	1.96	0.46
25:QE:20:PHE:HA	25:QE:230:SER:HB2	1.96	0.46
24:QH:292:THR:OG1	24:QH:319:TYR:OH	2.29	0.46
25:QI:58:ARG:HH22	25:QI:84:ILE:HA	1.80	0.46
24:QJ:273:ALA:HB3	24:QJ:375:VAL:H	1.81	0.46
24:QN:200:VAL:HA	24:QN:266:HIS:HB2	1.97	0.46
24:QP:77:GLU:HA	24:QP:80:THR:HG22	1.97	0.46
24:RD:187:SER:O	24:RD:191:THR:OG1	2.31	0.46
25:RE:311:LEU:HD13	25:RE:342:VAL:HG21	1.97	0.46
24:RL:278:ALA:HA	24:RL:369:ALA:HB2	1.97	0.46
25:RM:97:ALA:O	25:RM:103:LYS:NZ	2.32	0.46
25:SE:139:LEU:HD12	25:SE:170:VAL:HG12	1.97	0.46
25:SO:113:ILE:HA	25:SO:116:VAL:HG22	1.95	0.46
24:SP:112:LYS:HA	24:SP:115:VAL:HG12	1.96	0.46
24:SP:271:SER:HA	24:SP:302:MET:HG2	1.97	0.46
25:TI:304:ASP:N	25:TI:304:ASP:OD1	2.47	0.46
25:TK:44:LEU:HA	25:TK:47:ILE:HD11	1.96	0.46
24:TL:214:ARG:HH22	24:TL:215:ARG:HE	1.64	0.46
24:TN:316:CYS:HA	24:TN:352:LYS:HB3	1.96	0.46
25:UC:105:HIS:CD2	25:UC:150:LEU:HB2	2.50	0.46
25:UI:358:PRO:HG2	25:UI:361:LEU:HB2	1.97	0.46
24:UL:273:ALA:HB2	24:UL:295:ALA:HB2	1.97	0.46
25:VC:130:LEU:HB2	25:VC:162:ARG:NH1	2.30	0.46
24:VF:76:ASP:OD2	25:VG:46:ARG:NH2	2.46	0.46
24:VH:2:ARG:HH21	24:VH:242:LEU:HA	1.79	0.46
24:VH:195:LEU:HD11	24:VH:428:LEU:HD22	1.97	0.46
24:VH:318:MET:O	24:VH:375:VAL:HA	2.15	0.46
24:VJ:9:ILE:HD11	24:VJ:153:LEU:HD23	1.97	0.46
24:VL:137:VAL:HG11	24:VL:154:LEU:HD21	1.97	0.46
24:VP:259:LEU:HD23	24:VP:268:MET:HG2	1.97	0.46
25:WE:176:SER:OG	25:WE:178:THR:O	2.28	0.46
25:WK:184:ASN:OD1	25:WK:398:TYR:OH	2.25	0.46
24:WN:147:SER:HB2	24:WN:190:SER:HB3	1.97	0.46
39:X3:112:ARG:HE	39:X3:138:SER:HA	1.79	0.46
25:XC:99:ASN:ND2	24:XD:254:GLU:OE1	2.48	0.46
24:YD:139:ASN:O	24:YD:170:THR:HA	2.15	0.46
24:YN:73:THR:HG22	25:YO:46:ARG:HE	1.80	0.46
25:YO:110:ALA:HA	25:YO:113:ILE:HG22	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:ZF:189:LEU:HD11	24:ZF:418:PHE:HE1	1.80	0.46
24:ZF:222:PRO:HD2	25:ZG:324:LYS:HB3	1.98	0.46
25:ZG:244:GLY:HA3	25:ZG:354:CYS:HA	1.97	0.46
24:ZH:397:LEU:HD23	25:ZI:346:PRO:HD3	1.97	0.46
25:ZI:397:TRP:NE1	24:ZJ:256:GLN:O	2.48	0.46
2:1C:1521:GLN:HA	2:1C:1963:LEU:HD12	1.98	0.46
2:1D:1328:THR:H	2:1D:1331:GLN:HE21	1.62	0.46
2:1D:1800:TYR:HE1	2:1D:1802:ALA:HB2	1.80	0.46
14:8D:128:LYS:HD2	14:8D:128:LYS:HA	1.72	0.46
18:C0:1235:ASN:OD1	18:C0:1236:LYS:N	2.46	0.46
18:C1:562:HIS:ND1	18:C1:805:PRO:O	2.39	0.46
43:C2:2001:ANP:O2G	43:C2:2001:ANP:O1B	2.33	0.46
19:D1:349:GLU:HG3	19:D1:352:LEU:HD12	1.97	0.46
19:D5:401:ARG:NH1	19:D5:445:ALA:HB2	2.31	0.46
19:D7:54:VAL:HB	19:D7:57:ILE:HG12	1.96	0.46
19:G3:198:THR:H	19:G3:201:LEU:HD12	1.81	0.46
19:G5:156:ASN:OD1	19:G5:157:ALA:N	2.48	0.46
19:H0:114:SER:HB3	19:H0:117:LEU:HD23	1.98	0.46
19:J2:184:LYS:HD3	19:J2:217:LEU:HD22	1.97	0.46
19:J3:101:GLN:NE2	19:J3:140:GLY:O	2.48	0.46
19:K0:406:SER:O	19:K0:421:VAL:N	2.49	0.46
19:K1:301:TYR:O	19:K1:305:SER:HB2	2.15	0.46
19:L1:272:ALA:O	19:L1:276:ARG:HB2	2.15	0.46
19:L3:178:GLU:O	19:L3:184:LYS:NZ	2.46	0.46
22:M1:724:LEU:HD23	28:Q1:2529:ALA:HB2	1.97	0.46
24:NB:272:TYR:HB3	24:NB:275:ILE:HD11	1.97	0.46
25:NG:272:PRO:HG3	25:NG:364:SER:HA	1.97	0.46
24:NH:89:PRO:HD2	24:OJ:280:LYS:HZ2	1.79	0.46
26:O0:326:GLN:HA	26:O0:329:VAL:HG12	1.97	0.46
26:O1:408:ALA:HA	26:O1:411:LYS:HG2	1.97	0.46
26:O2:154:LEU:HD21	26:O2:168:VAL:HG21	1.97	0.46
24:OF:9:ILE:HB	24:OF:139:ASN:HB3	1.97	0.46
25:OM:253:LEU:HD11	25:OM:316:LEU:HD21	1.97	0.46
25:OO:91:VAL:HG11	25:OO:116:VAL:HG12	1.97	0.46
24:PL:207:GLU:OE1	25:PM:324:LYS:NZ	2.49	0.46
28:Q0:1026:LEU:HD22	28:Q0:1054:LEU:HD23	1.97	0.46
28:Q1:852:ASN:O	28:Q1:856:ARG:HB3	2.15	0.46
28:Q1:2061:SER:HB3	28:Q1:2755:PRO:HB2	1.96	0.46
28:Q1:2898:GLU:OE1	29:R1:139:ARG:NH2	2.48	0.46
25:QE:105:HIS:CE1	25:QE:150:LEU:HD12	2.51	0.46
24:QJ:222:PRO:HD2	25:QK:324:LYS:NZ	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:QM:132:GLY:HA2	25:QM:162:ARG:HB3	1.96	0.46
24:RD:209:ILE:HG21	24:RD:227:LEU:HG	1.98	0.46
25:RG:417:ASP:O	25:RG:420:SER:OG	2.29	0.46
24:RP:105:ARG:HA	24:RP:109:THR:HB	1.98	0.46
24:SB:33:ASP:O	24:SB:60:LYS:NZ	2.46	0.46
24:SD:179:THR:OG1	44:SD:501:GTP:O3'	2.31	0.46
24:SD:192:HIS:NE2	24:SD:420:GLU:OE1	2.49	0.46
24:SD:268:MET:SD	24:SD:380:ASN:ND2	2.87	0.46
24:SP:209:ILE:HG22	24:SP:227:LEU:HD22	1.97	0.46
25:TC:412:GLU:O	25:TC:416:ASN:ND2	2.48	0.46
24:TD:186:ASN:OD1	24:TD:408:TYR:OH	2.25	0.46
24:TH:278:ALA:HA	24:TH:369:ALA:HB2	1.97	0.46
24:TJ:17:GLY:HA2	24:TJ:20:CYS:HB2	1.97	0.46
25:TM:135:VAL:HG21	25:TM:152:ILE:HD11	1.97	0.46
24:TN:88:HIS:HE1	24:UN:284:GLU:HG2	1.80	0.46
24:UF:292:THR:HG1	24:UF:319:TYR:HH	1.62	0.46
24:UH:255:PHE:HA	24:UH:259:LEU:HD13	1.96	0.46
24:UN:76:ASP:HA	24:UN:79:ARG:HB2	1.98	0.46
25:VE:284:LEU:HD12	25:VE:363:MET:HB2	1.97	0.46
25:WA:135:VAL:HG11	25:WA:152:ILE:HD11	1.98	0.46
25:WC:4:ILE:HD11	25:WC:240:LEU:HD13	1.97	0.46
24:WF:79:ARG:NH2	24:WF:92:LEU:O	2.41	0.46
25:WG:315:ALA:HB3	25:WG:351:SER:HA	1.98	0.46
25:WM:222:PHE:HD1	25:WM:225:LEU:HD12	1.81	0.46
39:X0:285:ARG:HD2	39:X0:309:LEU:HD22	1.97	0.46
39:X2:106:ARG:HH12	39:X2:129:ASP:HA	1.81	0.46
24:XD:251:ASP:H	24:XD:254:GLU:HG3	1.80	0.46
25:XE:382:SER:HB2	25:XE:415:MET:HG3	1.96	0.46
25:XG:257:LEU:O	25:XG:370:ASN:ND2	2.49	0.46
25:XI:68:LEU:HD12	25:XI:97:ALA:HB2	1.98	0.46
24:XJ:9:ILE:HG22	24:XJ:146:GLY:HA2	1.98	0.46
40:Y0:213:LEU:HB3	40:Y0:215:VAL:HG13	1.97	0.46
40:Y1:120:ALA:HB1	40:Y1:135:LYS:HE3	1.96	0.46
40:Y5:199:SER:N	40:Y5:208:GLN:OE1	2.48	0.46
24:YF:317:LEU:HB3	24:YF:319:TYR:HE1	1.81	0.46
25:YO:60:VAL:HG21	25:YO:86:ARG:HG3	1.97	0.46
25:YO:164:MET:HB3	25:YO:197:ASP:HB3	1.97	0.46
25:YO:274:THR:HG21	25:YO:282:ARG:HD2	1.95	0.46
24:ZF:76:ASP:HA	24:ZF:79:ARG:HB2	1.98	0.46
25:ZO:201:VAL:HG21	25:ZO:374:ILE:HD11	1.97	0.46
2:1A:1344:LYS:HD2	2:1A:1456:LEU:HD23	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1A:1912:HIS:O	2:1A:1916:ARG:HG3	2.16	0.46
2:1B:1606:LEU:HA	2:1B:1703:VAL:HB	1.98	0.46
2:1D:1274:PHE:HA	2:1D:1277:VAL:HG12	1.98	0.46
2:1D:1916:ARG:HH12	18:C3:1552:LEU:HD23	1.80	0.46
14:8B:83:ALA:HB3	14:8B:98:ARG:HH11	1.80	0.46
18:C0:1046:ARG:HH22	18:C0:1056:ILE:HD11	1.80	0.46
18:C0:1284:LEU:HD13	18:C0:1466:MET:HG2	1.98	0.46
18:C0:1358:VAL:HG21	18:C0:1382:LEU:HG	1.96	0.46
18:C0:1448:LEU:HA	18:C0:1451:LEU:HG	1.97	0.46
18:C2:593:PRO:HD2	18:C2:763:ARG:HA	1.97	0.46
18:C4:95:TYR:OH	21:F3:67:LEU:O	2.32	0.46
19:D0:62:ALA:HB3	19:D0:102:ALA:HB1	1.96	0.46
19:D0:191:LEU:HD12	19:D0:205:VAL:HG13	1.98	0.46
19:D3:17:ARG:HE	19:D3:57:ILE:HD13	1.80	0.46
19:D5:24:VAL:HA	19:D5:27:MET:HG2	1.97	0.46
20:E3:93:LYS:HA	20:E3:93:LYS:HD3	1.73	0.46
21:F3:95:THR:HA	21:F3:186:LEU:O	2.14	0.46
19:G1:277:GLU:HG3	19:G1:280:LYS:HZ2	1.80	0.46
19:G4:355:ALA:O	19:G4:359:THR:HG23	2.16	0.46
19:H5:302:ILE:O	19:H5:310:ARG:NH1	2.49	0.46
19:I0:184:LYS:HD2	19:I0:225:LEU:HD11	1.98	0.46
19:J1:68:LEU:HD21	19:J1:75:LEU:HD22	1.96	0.46
19:J2:253:PHE:HD2	19:J2:292:ASN:HD22	1.63	0.46
19:K0:330:SER:O	19:K0:333:ALA:N	2.49	0.46
19:L1:80:VAL:HG21	19:L1:120:SER:HB2	1.98	0.46
25:NG:139:LEU:HD13	25:NG:168:SER:HB3	1.98	0.46
24:NL:155:GLU:HG2	24:NL:197:HIS:HE1	1.80	0.46
24:NL:259:LEU:HD23	24:NL:268:MET:HG2	1.98	0.46
25:NO:245:GLN:HE21	25:NO:245:GLN:CA	2.29	0.46
25:OC:64:ILE:HA	25:OC:89:ASN:HB3	1.97	0.46
24:OD:71:GLU:OE2	24:OD:73:THR:OG1	2.34	0.46
25:OK:287:PRO:HA	25:OK:329:GLN:HE22	1.81	0.46
24:ON:213:CYS:HA	24:ON:217:LEU:HB2	1.98	0.46
24:ON:255:PHE:HZ	24:ON:378:ILE:HG21	1.81	0.46
24:PF:209:ILE:HG23	24:PF:230:LEU:HD11	1.96	0.46
24:PF:345:ASP:N	24:PF:345:ASP:OD1	2.45	0.46
25:PO:7:ILE:HG23	25:PO:64:ILE:HG23	1.98	0.46
28:Q0:1618:GLU:HA	28:Q0:1621:ASN:HB2	1.98	0.46
28:Q0:2595:ARG:NH2	28:Q0:2630:GLN:OE1	2.48	0.46
28:Q0:3141:LEU:HD21	28:Q0:3192:PHE:HZ	1.80	0.46
25:QI:235:GLY:HA3	25:QI:366:THR:HG21	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:QL:136:LEU:HD13	24:QL:235:ILE:HD11	1.98	0.46
24:QN:388:PHE:O	24:QN:392:ASP:N	2.45	0.46
25:RE:328:GLU:O	25:RE:332:ASN:N	2.40	0.46
24:RF:76:ASP:HA	24:RF:79:ARG:HD2	1.96	0.46
25:RK:101:TRP:CD1	25:RK:187:LEU:HD13	2.50	0.46
25:RM:60:VAL:HG11	25:RM:86:ARG:HH21	1.81	0.46
24:RP:109:THR:HG22	24:RP:110:ILE:HG23	1.96	0.46
30:S1:19:PRO:HB3	24:XJ:57:GLY:HA2	1.96	0.46
24:SB:222:PRO:HD2	25:SC:324:LYS:HZ3	1.80	0.46
32:T1:409:MET:HG2	32:T1:451:ILE:HG12	1.97	0.46
24:TB:290:GLU:OE2	24:TB:290:GLU:N	2.47	0.46
24:TH:76:ASP:HA	24:TH:79:ARG:HB2	1.97	0.46
24:TN:318:MET:HB2	24:TN:376:CYS:HB3	1.98	0.46
24:UD:138:PHE:HZ	24:UD:235:ILE:HG21	1.81	0.46
24:VB:166:LYS:HB2	24:VB:199:ASP:H	1.81	0.46
25:VE:396:HIS:HA	25:VE:399:THR:HG22	1.97	0.46
25:VG:145:SER:OG	25:VG:188:SER:OG	2.26	0.46
25:VG:242:PHE:HB3	25:VG:356:ILE:HD13	1.98	0.46
25:VK:3:GLU:HA	25:VK:49:VAL:HA	1.98	0.46
24:WB:183:GLU:HG2	24:WB:184:PRO:HD3	1.98	0.46
24:WB:223:THR:OG1	24:WB:224:TYR:N	2.49	0.46
24:WD:288:VAL:HG13	24:WD:319:TYR:HE2	1.81	0.46
24:WH:130:THR:OG1	24:WH:131:GLY:N	2.49	0.46
25:WO:282:ARG:NH2	25:WO:288:GLU:OE1	2.49	0.46
39:X1:417:PRO:HB2	39:X1:419:ARG:HH11	1.80	0.46
25:XE:207:LEU:HD21	25:XE:300:MET:HE2	1.96	0.46
25:XM:105:HIS:CD2	25:XM:150:LEU:HB2	2.51	0.46
24:XN:77:GLU:HA	24:XN:80:THR:HG22	1.95	0.46
40:Y1:194:ILE:HD11	40:Y1:269:VAL:HG13	1.97	0.46
40:Y3:436:GLN:HE22	40:Y3:438:LYS:HB2	1.81	0.46
25:YC:21:TRP:HA	25:YC:24:VAL:HG12	1.95	0.46
25:YG:171:PRO:HG3	25:YG:181:GLU:HG2	1.97	0.46
24:YH:273:ALA:HB3	24:YH:375:VAL:HB	1.96	0.46
24:YL:237:SER:HA	24:YL:320:ARG:HH21	1.80	0.46
24:YP:17:GLY:HA2	24:YP:20:CYS:HB2	1.98	0.46
41:Z0:190:ASP:OD1	41:Z0:190:ASP:N	2.49	0.46
41:Z1:594:GLU:HG2	41:Z1:597:GLU:H	1.81	0.46
41:Z2:473:ALA:HB3	41:Z2:478:PRO:HG3	1.98	0.46
24:ZD:68:LEU:HD11	24:ZD:153:LEU:HD22	1.97	0.46
25:ZG:330:MET:HB3	25:ZG:349:VAL:HG11	1.98	0.46
24:ZH:76:ASP:HA	24:ZH:79:ARG:HB2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:ZJ:115:VAL:HG21	24:ZJ:152:LEU:HD22	1.96	0.46
25:ZM:323:THR:HG22	25:ZM:353:VAL:HG21	1.98	0.46
24:ZN:211:ASP:HB3	24:ZN:215:ARG:HH21	1.80	0.46
2:1A:1303:PHE:HE1	2:1A:1335:LEU:HD12	1.81	0.46
2:1B:1253:THR:HG21	43:1B:2602:ANP:H3'	1.97	0.46
2:1B:2464:LYS:HA	2:1B:2467:ARG:NE	2.30	0.46
2:1D:1607:VAL:HA	2:1D:1608:PRO:HD3	1.83	0.46
2:1D:1934:VAL:HG23	2:1D:1976:ASN:HB3	1.96	0.46
13:7C:159:GLY:HA3	13:7C:169:LEU:HA	1.98	0.46
17:B1:443:ARG:O	17:B1:447:GLU:HG2	2.15	0.46
17:B1:455:ARG:NH1	25:RK:107:THR:O	2.44	0.46
18:C0:1358:VAL:HG11	18:C0:1382:LEU:HD21	1.98	0.46
18:C2:92:ARG:HA	21:F1:82:ILE:HD11	1.98	0.46
18:C2:817:LEU:HB2	18:C2:904:PHE:HA	1.98	0.46
18:C4:69:ASN:ND2	18:C4:133:GLU:OE1	2.49	0.46
19:D4:347:GLU:HA	19:D4:353:LYS:HZ2	1.80	0.46
19:D5:200:GLU:HA	19:D5:203:GLN:HG3	1.96	0.46
19:G0:78:ALA:HA	19:G0:81:GLN:HG3	1.97	0.46
19:G1:63:LEU:HD22	32:T0:598:LEU:HD21	1.96	0.46
19:G1:245:GLU:HA	19:G1:248:VAL:HG22	1.97	0.46
19:G1:383:LEU:HB3	19:G1:401:ARG:HH12	1.81	0.46
19:G3:226:LYS:HG2	19:G3:267:VAL:HG21	1.98	0.46
19:H0:283:PRO:HB3	19:H0:323:PHE:HB3	1.96	0.46
19:H3:323:PHE:O	19:H3:365:ARG:NH2	2.49	0.46
19:H4:15:LYS:HA	19:H4:18:VAL:HG22	1.97	0.46
19:H4:397:LYS:O	19:H4:401:ARG:HG3	2.15	0.46
19:H6:153:ALA:HB2	19:H6:163:VAL:HG21	1.98	0.46
19:J1:224:LYS:HA	19:J1:227:ARG:HG3	1.97	0.46
19:J1:282:THR:HG23	19:J1:285:LEU:H	1.80	0.46
19:J3:171:LEU:HD13	19:J3:174:LEU:HD12	1.98	0.46
19:K2:4:ARG:HH21	19:K2:7:LEU:HD12	1.79	0.46
22:M1:155:LEU:O	26:O1:236:ARG:NH2	2.46	0.46
22:M1:773:TYR:OH	28:Q1:1508:PRO:O	2.25	0.46
25:NC:20:PHE:HA	25:NC:230:SER:HB2	1.98	0.46
25:NE:167:PHE:HA	25:NE:200:MET:HB2	1.96	0.46
25:NE:167:PHE:CE2	25:NE:200:MET:HG3	2.51	0.46
25:NG:232:VAL:HG22	25:NG:366:THR:HG23	1.97	0.46
24:NL:317:LEU:N	24:NL:352:LYS:O	2.47	0.46
25:PE:396:HIS:CG	24:PF:263:PRO:HD3	2.50	0.46
24:PF:191:THR:HA	24:PF:194:LEU:HG	1.97	0.46
24:PH:94:SER:OG	24:PH:95:GLY:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:PM:16:ILE:HD11	25:PM:229:ILE:HB	1.98	0.46
24:PN:223:THR:HA	25:PO:323:THR:HG22	1.97	0.46
24:PN:230:LEU:HD22	24:PN:275:ILE:HD11	1.97	0.46
28:Q0:872:GLY:O	28:Q0:875:THR:OG1	2.19	0.46
28:Q0:1188:LEU:HD11	28:Q0:1202:LEU:HD11	1.97	0.46
28:Q1:266:PRO:HA	28:Q1:269:GLN:HG3	1.96	0.46
28:Q1:2047:TYR:O	28:Q1:2052:ASN:ND2	2.48	0.46
24:QH:206:ASN:OD1	44:QH:501:GTP:O2'	2.31	0.46
24:QH:313:MET:HB2	24:QH:380:ASN:HB3	1.98	0.46
24:QH:318:MET:HB2	24:QH:376:CYS:HB3	1.97	0.46
24:QJ:311:LYS:H	24:QJ:382:THR:HG1	1.58	0.46
25:QK:249:ASP:OD1	25:QK:252:LYS:N	2.36	0.46
25:QM:164:MET:H	25:QM:197:ASP:HB2	1.81	0.46
25:RC:178:THR:HA	24:RD:352:LYS:HD2	1.97	0.46
25:RC:284:LEU:HG	25:RC:363:MET:HB2	1.98	0.46
24:RD:433:GLU:O	24:RD:437:ALA:N	2.48	0.46
25:RE:211:CYS:HA	25:RE:215:LEU:HB2	1.96	0.46
24:RF:422:ARG:O	24:RF:426:ALA:N	2.48	0.46
24:RL:3:GLU:OE2	24:RL:130:THR:N	2.49	0.46
24:RN:73:THR:HA	25:RO:46:ARG:HH22	1.80	0.46
25:RO:31:ASP:OD1	25:RO:35:THR:N	2.48	0.46
25:RO:272:PRO:HG2	25:RO:361:LEU:HD21	1.96	0.46
24:RP:298:PRO:HA	24:RP:301:MET:HB2	1.97	0.46
30:S2:14:ALA:HB1	30:S2:18:THR:HG21	1.97	0.46
30:S2:112:GLY:HA3	24:VF:2:ARG:HH12	1.81	0.46
24:SD:406:HIS:NE2	25:SE:259:PRO:O	2.40	0.46
24:SH:3:GLU:HG3	24:SH:129:CYS:HB2	1.96	0.46
24:SL:122:ILE:O	24:SL:126:ALA:N	2.40	0.46
32:T0:409:MET:HG2	32:T0:451:ILE:HG12	1.96	0.46
32:T1:387:TYR:HD2	32:T1:478:LYS:HA	1.80	0.46
24:TD:70:LEU:HA	24:TD:95:GLY:HA3	1.97	0.46
24:TD:288:VAL:HG23	24:TD:373:ARG:HD2	1.98	0.46
24:TF:251:ASP:HB3	24:TF:254:GLU:HG3	1.97	0.46
24:TH:213:CYS:HA	24:TH:217:LEU:HD23	1.97	0.46
24:TN:236:SER:OG	24:TN:243:ARG:NH2	2.49	0.46
25:VC:209:ASP:OD1	25:VC:213:ARG:NH1	2.48	0.46
25:VK:166:THR:OG1	25:VK:199:CYS:SG	2.71	0.46
24:VN:254:GLU:O	24:VN:258:ASN:ND2	2.49	0.46
24:WH:334:THR:HA	24:WH:337:THR:HG22	1.98	0.46
25:WI:60:VAL:HG21	25:WI:86:ARG:HG3	1.98	0.46
25:WI:273:LEU:O	25:WI:292:GLN:NE2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:WN:254:GLU:O	24:WN:258:ASN:HB3	2.16	0.46
24:WN:425:LEU:O	24:WN:429:GLU:HG2	2.14	0.46
39:X0:233:GLN:HG2	39:X0:234:VAL:HG23	1.97	0.46
39:X1:121:GLY:HA2	39:X1:150:ARG:HB3	1.96	0.46
39:X1:149:SER:HA	39:X1:171:ALA:H	1.80	0.46
39:X2:89:PHE:HB3	39:X2:92:LEU:HD23	1.97	0.46
25:XA:8:GLN:HE21	25:XA:65:LEU:HG	1.81	0.46
25:XA:31:ASP:OD2	25:XA:35:THR:OG1	2.33	0.46
24:XF:228:ASN:HA	24:XF:231:ILE:HB	1.97	0.46
24:YB:301:MET:HG3	24:YB:303:VAL:H	1.80	0.46
25:YC:117:LEU:HA	25:YC:120:VAL:HG22	1.97	0.46
24:YD:363:VAL:HG23	24:YD:366:GLY:HA3	1.98	0.46
25:YI:175:VAL:HG21	24:YJ:332:VAL:HG13	1.98	0.46
41:Z0:527:GLU:HG3	41:Z0:530:LYS:HE3	1.96	0.46
41:Z3:193:ASP:OD2	41:Z3:199:ARG:NH2	2.48	0.46
24:ZN:259:LEU:HD11	24:ZN:316:CYS:HB2	1.98	0.46
25:ZO:286:VAL:HG23	25:ZO:287:PRO:HD3	1.97	0.46
2:1A:1839:ALA:HA	2:1A:1842:LYS:HE3	1.98	0.46
2:1D:1974:ARG:HH22	2:1D:2076:ARG:HH22	1.63	0.46
2:1D:1981:PHE:HB2	2:1D:1983:HIS:CE1	2.50	0.46
4:2B:313:VAL:HG21	4:2B:359:LEU:HD12	1.96	0.46
12:6B:200:ASP:O	12:6B:204:ALA:HB2	2.14	0.46
16:A1:44:MET:HG3	24:XL:409:VAL:HG21	1.98	0.46
18:C2:1250:ARG:HH12	18:C2:1254:TRP:HB2	1.80	0.46
18:C3:959:HIS:NE2	18:C3:1026:ALA:O	2.49	0.46
19:D0:405:LYS:HA	19:D0:405:LYS:HD3	1.84	0.46
19:D3:227:ARG:NH2	19:D3:264:ASP:OD2	2.49	0.46
20:E0:423:PRO:HB3	25:VI:216:LYS:HB3	1.96	0.46
19:H0:348:PRO:HB2	19:H0:352:LEU:HD12	1.98	0.46
19:I1:362:GLN:OE1	19:I1:365:ARG:NH1	2.49	0.46
19:J2:287:GLN:HA	19:J2:290:VAL:HG22	1.98	0.46
19:J2:454:SER:HA	19:J2:470:LYS:HA	1.98	0.46
19:K1:179:PRO:HA	19:K1:184:LYS:HE2	1.97	0.46
19:L0:305:SER:HB3	19:L0:310:ARG:HE	1.81	0.46
19:L0:432:MET:HA	19:L0:435:GLU:HG3	1.97	0.46
24:NB:311:LYS:NZ	24:NB:436:GLY:O	2.44	0.46
25:NC:311:LEU:N	25:NC:370:ASN:O	2.44	0.46
24:ND:209:ILE:HD13	24:ND:231:ILE:HD11	1.97	0.46
24:NL:273:ALA:HB3	24:NL:375:VAL:H	1.80	0.46
25:NM:184:ASN:OD1	25:NM:398:TYR:OH	2.31	0.46
25:NM:211:CYS:HA	25:NM:215:LEU:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:NN:195:LEU:HD12	24:NN:264:ARG:HE	1.81	0.46
24:OH:274:PRO:HD3	24:OH:291:ILE:HB	1.96	0.46
24:OP:35:GLN:NE2	24:OP:59:GLY:O	2.49	0.46
25:PC:67:ASP:OD1	25:PC:68:LEU:N	2.49	0.46
24:PH:25:CYS:O	24:PH:30:ILE:N	2.49	0.46
24:PL:207:GLU:HA	24:PL:210:TYR:HB2	1.97	0.46
24:PL:213:CYS:HA	24:PL:217:LEU:HB2	1.98	0.46
24:PL:248:LEU:HD12	24:PL:355:ILE:HG12	1.97	0.46
25:PO:331:LEU:HA	25:PO:334:GLN:HB2	1.98	0.46
28:Q0:651:ILE:HD12	28:Q0:669:LEU:HG	1.97	0.46
28:Q0:683:ASP:OD1	28:Q0:683:ASP:N	2.49	0.46
28:Q0:744:ARG:NE	28:Q0:763:GLN:OE1	2.45	0.46
28:Q1:1212:LEU:HD13	28:Q1:1264:LEU:HD13	1.96	0.46
28:Q1:2470:PRO:HB2	28:Q1:2526:LEU:HG	1.98	0.46
24:QF:189:LEU:HD11	24:QF:418:PHE:HE1	1.81	0.46
25:QM:96:GLY:O	25:QM:103:LYS:NZ	2.49	0.46
25:QQ:51:PHE:HB3	25:QQ:59:TYR:HB3	1.98	0.46
24:RH:102:ASN:HB3	24:RH:105:ARG:HB2	1.97	0.46
25:RI:170:VAL:HG21	25:RI:201:VAL:HG13	1.97	0.46
25:RK:274:THR:HG22	25:RK:282:ARG:HE	1.81	0.46
24:RL:130:THR:OG1	24:RL:131:GLY:N	2.49	0.46
24:RN:107:HIS:HE1	24:RN:152:LEU:HD13	1.80	0.46
25:RO:238:CYS:SG	25:RO:318:ARG:NE	2.88	0.46
24:RP:195:LEU:HD21	24:RP:264:ARG:HD2	1.98	0.46
30:S1:90:HIS:NE2	25:WI:276:ARG:O	2.47	0.46
25:SC:203:ASP:OD2	25:SC:302:ALA:N	2.49	0.46
24:SD:180:ALA:C	25:SE:350:LYS:HZ2	2.19	0.46
24:SF:238:LEU:HD13	24:SF:378:ILE:HD12	1.98	0.46
25:SM:271:THR:OG1	25:SM:293:MET:SD	2.74	0.46
24:TJ:6:SER:HA	24:TJ:136:LEU:HB2	1.98	0.46
24:UB:259:LEU:HD11	24:UB:316:CYS:HB2	1.98	0.46
24:UH:288:VAL:HG13	24:UH:319:TYR:HE2	1.80	0.46
24:UH:405:VAL:HG13	24:UH:418:PHE:HE2	1.80	0.46
24:UJ:316:CYS:HA	24:UJ:352:LYS:HB3	1.96	0.46
24:VD:404:PHE:HZ	25:VE:312:THR:HG21	1.81	0.46
25:VE:12:CYS:SG	25:VE:13:GLY:N	2.88	0.46
25:VE:113:ILE:HD11	25:VE:147:MET:HG3	1.97	0.46
24:VF:76:ASP:HA	24:VF:79:ARG:HD2	1.98	0.46
25:VI:47:ILE:HG22	25:VI:51:PHE:HB2	1.97	0.46
24:VL:175:PRO:HB3	24:VL:390:ARG:HE	1.79	0.46
24:VP:15:GLN:NE2	44:VP:501:GTP:O6	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:WC:271:THR:HG23	25:WC:289:LEU:HD22	1.98	0.46
25:WC:382:SER:HB2	25:WC:415:MET:HG3	1.96	0.46
25:WI:55:THR:HG23	25:XI:283:ALA:HA	1.97	0.46
24:WN:193:SER:O	24:WN:197:HIS:ND1	2.30	0.46
39:X0:165:LEU:HB2	39:X0:185:LEU:HD11	1.98	0.46
39:X2:287:ASN:N	39:X2:290:ASP:OD2	2.48	0.46
25:XA:25:SER:HB2	25:XA:30:ILE:HB	1.98	0.46
25:XC:170:VAL:HG22	25:XC:203:ASP:HB3	1.98	0.46
24:XD:406:HIS:HA	24:XD:409:VAL:HG12	1.97	0.46
25:XG:272:PRO:HG3	25:XG:364:SER:HA	1.97	0.46
25:XI:173:PRO:HD2	25:XI:205:GLU:HG3	1.98	0.46
25:XO:25:SER:O	25:XO:29:GLY:N	2.47	0.46
40:Y0:342:GLN:HA	40:Y0:364:ILE:HG12	1.97	0.46
40:Y2:49:LYS:HD2	40:Y2:50:VAL:N	2.31	0.46
40:Y2:112:ASN:HA	40:Y2:116:ILE:HD13	1.98	0.46
40:Y2:218:SER:N	40:Y2:222:GLU:OE2	2.45	0.46
40:Y6:49:LYS:HD3	40:Y6:51:VAL:HG13	1.98	0.46
40:Y6:381:VAL:HG23	40:Y6:409:TRP:HH2	1.81	0.46
24:YD:217:LEU:HG	24:YD:275:ILE:HG22	1.98	0.46
24:YD:242:LEU:HD21	24:YD:251:ASP:HA	1.97	0.46
25:YK:330:MET:HB3	25:YK:349:VAL:HG11	1.97	0.46
25:YM:207:LEU:HB3	25:YM:225:LEU:HG	1.96	0.46
25:YO:68:LEU:HD12	25:YO:143:THR:HG23	1.97	0.46
41:Z3:292:SER:HB2	41:Z3:296:GLY:HA2	1.98	0.46
24:ZD:213:CYS:HB3	24:ZD:222:PRO:HG3	1.97	0.46
25:ZK:173:PRO:HD2	25:ZK:205:GLU:OE2	2.16	0.46
25:ZM:201:VAL:HG21	25:ZM:374:ILE:HD11	1.98	0.46
2:1A:1922:TRP:HD1	18:C0:1928:ARG:HH21	1.64	0.46
2:1D:2014:LEU:HD21	2:1D:2110:LEU:HD23	1.97	0.46
2:1D:2155:VAL:HG13	2:1D:2301:LEU:HB2	1.97	0.46
14:8B:59:TRP:HH2	25:XK:217:LEU:HD11	1.81	0.46
18:C1:205:ARG:NH1	25:VO:407:GLU:OE2	2.48	0.46
18:C1:337:ARG:HA	18:C1:340:GLU:HG3	1.98	0.46
18:C1:633:ALA:HA	18:C1:636:GLN:HE21	1.81	0.46
18:C2:710:VAL:HA	18:C2:713:VAL:HG22	1.98	0.46
18:C2:1250:ARG:NH2	18:C2:1251:ASP:OD1	2.48	0.46
18:C4:116:ASN:HA	18:C4:119:ARG:HG2	1.98	0.46
19:D3:358:TRP:HB2	19:D3:396:LEU:HD13	1.96	0.46
19:D4:311:LEU:HD23	19:D4:312:PRO:HD3	1.97	0.46
21:F1:124:LEU:HD11	21:F1:180:LYS:HZ2	1.81	0.46
21:F2:133:VAL:HG22	21:F2:158:VAL:HG22	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:H0:375:ALA:HA	19:H0:380:LEU:HD23	1.98	0.46
19:H3:329:LEU:HD13	19:H3:332:ILE:HD11	1.98	0.46
19:H7:347:GLU:HG2	19:H7:353:LYS:HE3	1.98	0.46
19:I1:15:LYS:HA	19:I1:18:VAL:HG12	1.97	0.46
19:J2:49:LEU:HD21	19:J3:17:ARG:HH22	1.80	0.46
19:K0:114:SER:OG	19:K0:116:GLU:OE1	2.34	0.46
19:K0:302:ILE:HD12	19:K0:314:ILE:HD13	1.98	0.46
19:K0:317:LEU:HA	19:K0:320:ILE:HG12	1.97	0.46
19:K2:21:VAL:HG21	19:K2:49:LEU:HD21	1.97	0.46
19:K2:226:LYS:HA	19:K2:229:VAL:HG12	1.98	0.46
19:L0:56:SER:HB3	25:UK:406:MET:HG3	1.96	0.46
19:L0:476:GLU:N	19:L0:476:GLU:OE1	2.47	0.46
19:L2:240:SER:OG	19:L2:242:ASP:OD1	2.32	0.46
19:L3:397:LYS:HA	19:L3:400:CYS:HB2	1.98	0.46
25:NC:8:GLN:HE21	25:NC:65:LEU:HD23	1.81	0.46
25:NC:49:VAL:HG11	25:NC:241:ARG:HG2	1.96	0.46
24:ND:336:LYS:NZ	24:ND:348:PRO:O	2.41	0.46
25:NK:236:ILE:HD12	25:NK:368:ILE:HD11	1.97	0.46
25:OC:330:MET:HA	25:OC:333:VAL:HG12	1.97	0.46
25:OC:391:ARG:HD3	24:OD:346:TRP:HB3	1.98	0.46
24:OH:223:THR:OG1	24:OH:224:TYR:N	2.49	0.46
24:OH:327:ASP:OD2	24:OH:328:VAL:N	2.49	0.46
25:OI:103:LYS:NZ	25:OI:401:GLU:OE2	2.36	0.46
25:OI:182:PRO:HD3	24:OJ:349:THR:HG21	1.97	0.46
25:OI:286:VAL:HG23	25:OI:287:PRO:HD3	1.98	0.46
25:OK:8:GLN:HB2	25:OK:65:LEU:HD23	1.98	0.46
25:OK:170:VAL:HG11	25:OK:201:VAL:HG13	1.97	0.46
24:OL:272:TYR:HB3	24:OL:275:ILE:HD11	1.98	0.46
24:ON:265:ILE:HG23	24:ON:432:PHE:HE1	1.81	0.46
25:PC:217:LEU:HB2	25:PC:220:PRO:HG3	1.96	0.46
25:PE:126:SER:O	37:W9:171:UNK:N	2.49	0.46
25:PE:211:CYS:HB2	25:PE:220:PRO:HG2	1.96	0.46
25:PE:259:PRO:HG2	25:PE:311:LEU:HD23	1.97	0.46
24:PN:3:GLU:HA	24:PN:51:THR:HA	1.97	0.46
24:PN:317:LEU:HB3	24:PN:319:TYR:HE1	1.80	0.46
28:Q1:1139:LEU:HD12	28:Q1:2141:LEU:HD12	1.97	0.46
25:QI:337:ASN:ND2	37:W9:31:UNK:O	2.47	0.46
24:QL:100:ALA:HA	25:QM:252:LYS:HG2	1.97	0.46
24:QL:180:ALA:HB3	24:QL:183:GLU:HG3	1.96	0.46
25:QQ:253:LEU:HD11	25:QQ:316:LEU:HD21	1.97	0.46
24:RD:3:GLU:HA	24:RD:51:THR:HA	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:RH:65:CYS:SG	24:RH:66:ILE:N	2.88	0.46
25:RI:204:ASN:HA	25:RI:207:LEU:HD12	1.98	0.46
24:RL:315:CYS:HA	24:RL:379:SER:HA	1.97	0.46
25:RO:220:PRO:HD2	24:RP:326:LYS:HZ3	1.80	0.46
30:S2:19:PRO:O	25:YG:362:LYS:NZ	2.43	0.46
24:SB:319:TYR:HB3	24:SB:323:VAL:HG21	1.98	0.46
25:SK:397:TRP:NE1	24:SL:256:GLN:O	2.49	0.46
25:SM:178:THR:HG22	24:SN:352:LYS:HE2	1.97	0.46
24:SN:319:TYR:HB3	24:SN:323:VAL:HG21	1.98	0.46
24:SP:53:PHE:HB3	24:SP:61:HIS:HB3	1.98	0.46
24:TD:89:PRO:HD2	24:UD:280:LYS:HZ2	1.81	0.46
24:TJ:138:PHE:HZ	24:TJ:235:ILE:HG12	1.81	0.46
24:TL:420:GLU:HA	24:TL:423:GLU:HB3	1.98	0.46
24:TN:97:GLU:OE2	25:TO:251:ARG:NE	2.43	0.46
24:TN:209:ILE:HG23	24:TN:230:LEU:HD11	1.97	0.46
33:U0:6:SER:HA	33:U0:35:ILE:HD12	1.98	0.46
33:U1:194:ARG:HH22	33:U1:199:GLN:HA	1.81	0.46
25:UE:122:LYS:HE3	25:UE:122:LYS:HB3	1.72	0.46
25:UE:128:ASP:OD1	25:UE:128:ASP:N	2.42	0.46
25:UE:257:LEU:O	25:UE:370:ASN:ND2	2.37	0.46
25:UO:99:ASN:OD1	25:UO:184:ASN:ND2	2.48	0.46
24:VB:345:ASP:OD1	24:VB:345:ASP:N	2.49	0.46
25:VE:193:VAL:HA	25:VE:264:HIS:HE1	1.81	0.46
25:VE:309:ARG:NH1	25:VE:339:SER:O	2.48	0.46
25:VI:113:ILE:HA	25:VI:116:VAL:HG22	1.97	0.46
25:VM:213:ARG:HD2	25:VM:297:LYS:HB2	1.98	0.46
25:WA:68:LEU:HD22	25:WA:97:ALA:HB2	1.97	0.46
24:WD:76:ASP:HA	24:WD:79:ARG:HB2	1.97	0.46
24:WD:112:LYS:HA	24:WD:115:VAL:HG12	1.97	0.46
24:WJ:223:THR:OG1	24:WJ:224:TYR:N	2.49	0.46
24:WN:175:PRO:HB3	24:WN:390:ARG:NE	2.31	0.46
39:X1:189:LYS:HG3	39:X1:190:VAL:HG23	1.97	0.46
25:XC:87:PRO:HB2	24:YD:280:LYS:NZ	2.30	0.46
25:XC:314:SER:HA	25:XC:350:LYS:HB3	1.97	0.46
25:XI:184:ASN:OD1	25:XI:398:TYR:OH	2.32	0.46
25:XK:207:LEU:HB3	25:XK:225:LEU:HD22	1.97	0.46
25:XO:100:ASN:HB3	25:XO:103:LYS:HB3	1.97	0.46
40:Y3:415:HIS:CD2	40:Y3:439:THR:HA	2.51	0.46
40:Y4:283:LYS:HG3	40:Y4:332:PRO:HB2	1.98	0.46
40:Y5:134:GLN:HA	40:Y5:137:LYS:NZ	2.30	0.46
40:Y5:425:ILE:HA	40:Y5:428:LEU:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:Y6:28:PRO:HG2	40:Y6:31:PRO:HA	1.98	0.46
25:YC:294:TRP:CE2	25:YC:333:VAL:HG11	2.50	0.46
24:YD:325:PRO:HA	24:YD:328:VAL:HG12	1.97	0.46
25:YE:68:LEU:HB2	25:YE:143:THR:HG23	1.97	0.46
24:YH:209:ILE:HG23	24:YH:230:LEU:HD11	1.97	0.46
24:YJ:7:ILE:HA	24:YJ:66:ILE:HB	1.98	0.46
25:YK:253:LEU:HD21	25:YK:316:LEU:HD21	1.98	0.46
41:Z1:324:GLU:HA	41:Z1:327:LEU:HD23	1.98	0.46
41:Z2:50:ARG:NH2	41:Z2:535:ASP:OD2	2.41	0.46
41:Z2:165:ALA:HA	41:Z2:168:ILE:HD12	1.96	0.46
25:ZE:135:VAL:HG21	25:ZE:152:ILE:HD11	1.98	0.46
25:ZM:257:LEU:HD23	25:ZM:312:THR:HG22	1.98	0.46
24:ZN:406:HIS:CE1	25:ZO:261:PRO:HD3	2.51	0.46
25:ZO:211:CYS:HA	25:ZO:215:LEU:HB2	1.97	0.46
4:2A:553:ALA:HB3	4:2A:682:ASN:H	1.81	0.46
14:8D:27:GLY:HA3	24:YD:221:ARG:HB2	1.98	0.46
15:9E:1695:MET:HA	15:9E:1781:LEU:HA	1.98	0.46
16:A3:164:LEU:HD13	16:A3:171:ARG:NH2	2.31	0.46
17:B1:506:ARG:O	17:B1:510:ILE:HG12	2.16	0.46
18:C1:586:LEU:HD23	18:C1:589:ILE:HD13	1.98	0.46
18:C2:623:GLU:OE1	18:C2:626:ALA:N	2.44	0.46
18:C2:1671:GLU:OE2	18:C2:1673:TRP:NE1	2.49	0.46
18:C2:1783:ALA:HA	18:C2:1786:LYS:HZ3	1.80	0.46
19:D0:198:THR:HG22	19:D0:201:LEU:HD12	1.96	0.46
19:D3:100:LYS:NZ	19:D3:136:GLU:OE1	2.41	0.46
19:G0:159:LEU:HA	19:G0:162:GLN:HE21	1.81	0.46
19:G4:122:ILE:HG12	19:G4:127:LEU:HD11	1.97	0.46
19:G5:241:VAL:HG12	19:G5:281:HIS:HB3	1.98	0.46
19:H2:337:LEU:HA	19:H2:340:LEU:HG	1.98	0.46
19:H5:235:GLN:HA	19:H5:238:LYS:HZ1	1.81	0.46
19:I0:15:LYS:HZ3	25:OI:402:GLY:N	2.13	0.46
19:J2:21:VAL:HG21	19:J2:57:ILE:HA	1.98	0.46
19:K2:203:GLN:NE2	19:K2:207:ASP:OD1	2.49	0.46
19:L0:248:VAL:HG21	19:L0:285:LEU:HD22	1.97	0.46
19:L1:170:PRO:HA	19:L1:173:VAL:HG22	1.97	0.46
24:NB:246:GLY:HA2	24:NB:357:TYR:HD1	1.80	0.46
25:NC:86:ARG:HG3	25:OE:282:ARG:NH2	2.30	0.46
24:NF:154:LEU:O	24:NF:158:SER:OG	2.24	0.46
25:NI:1:MET:HA	25:NI:48:ASN:HD21	1.80	0.46
25:OC:178:THR:HA	24:OD:352:LYS:HE2	1.96	0.46
24:ON:104:ALA:HB2	24:ON:413:MET:HG2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:PC:46:ARG:HD3	25:PC:46:ARG:HA	1.81	0.46
25:PC:211:CYS:HA	25:PC:215:LEU:HB2	1.98	0.46
24:PH:62:VAL:HG21	24:PH:88:HIS:HB2	1.98	0.46
24:PH:322:ASP:OD1	24:PH:322:ASP:N	2.47	0.46
25:PK:86:ARG:HH22	25:QK:282:ARG:HA	1.80	0.46
25:PM:171:PRO:HB2	25:PM:380:ARG:HH12	1.80	0.46
24:PN:72:PRO:HB3	24:PN:94:SER:HB2	1.98	0.46
24:QH:237:SER:HA	24:QH:320:ARG:HD2	1.97	0.46
25:QM:99:ASN:ND2	24:QN:254:GLU:OE1	2.49	0.46
24:QN:391:LEU:HA	24:QN:394:LYS:HB2	1.98	0.46
25:RK:165:LEU:HD12	25:RK:167:PHE:HE2	1.81	0.46
30:S3:75:ARG:HH11	24:WB:42:ILE:HG12	1.80	0.46
25:SC:91:VAL:HG11	25:SC:116:VAL:HG12	1.98	0.46
24:SD:288:VAL:HG13	24:SD:319:TYR:HE2	1.81	0.46
25:SG:191:GLN:O	25:SG:195:ASN:ND2	2.46	0.46
24:SH:315:CYS:HB2	24:SH:351:PHE:HD2	1.81	0.46
25:SM:211:CYS:HA	25:SM:215:LEU:HB2	1.98	0.46
25:SM:253:LEU:HD21	25:SM:316:LEU:HD21	1.97	0.46
24:TB:319:TYR:HD2	24:TB:323:VAL:HG21	1.79	0.46
25:TC:130:LEU:O	25:TC:162:ARG:NE	2.48	0.46
24:TD:69:ASP:OD1	24:TD:69:ASP:N	2.47	0.46
25:TE:324:LYS:O	25:TE:328:GLU:N	2.32	0.46
24:TF:49:PHE:HE2	24:TF:55:GLU:HB2	1.81	0.46
24:TH:307:PRO:HB3	24:TH:312:TYR:HE1	1.80	0.46
25:TI:289:LEU:HD12	25:TI:363:MET:SD	2.56	0.46
25:TK:175:VAL:HG11	24:TL:329:ASN:HB3	1.98	0.46
24:TP:77:GLU:HA	24:TP:80:THR:HG22	1.98	0.46
24:TP:141:VAL:O	24:TP:147:SER:OG	2.34	0.46
24:UH:269:LEU:HD22	24:UH:303:VAL:HG21	1.97	0.46
25:UK:148:GLY:O	25:UK:152:ILE:HG12	2.16	0.46
24:UN:272:TYR:HB3	24:UN:275:ILE:HD11	1.97	0.46
24:UP:272:TYR:HB3	24:UP:275:ILE:HD11	1.98	0.46
24:UP:384:ILE:HA	24:UP:387:ILE:HG22	1.96	0.46
24:VB:305:CYS:HB3	24:VB:387:ILE:HD11	1.98	0.46
24:VD:345:ASP:OD1	24:VD:345:ASP:N	2.49	0.46
25:VI:8:GLN:NE2	25:VI:65:LEU:HG	2.31	0.46
24:VN:77:GLU:OE1	36:W3:5:UNK:N	2.49	0.46
24:WH:288:VAL:HG13	24:WH:319:TYR:HE2	1.81	0.46
24:WJ:9:ILE:HG22	24:WJ:146:GLY:HA2	1.97	0.46
24:WL:137:VAL:HG13	24:WL:168:GLY:HA2	1.98	0.46
39:X1:239:HIS:HD2	39:X1:261:CYS:HB3	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:X3:195:HIS:N	39:X3:216:GLY:O	2.38	0.46
25:XA:113:ILE:HA	25:XA:116:VAL:HG22	1.97	0.46
24:XB:265:ILE:HG23	24:XB:432:PHE:HE1	1.81	0.46
25:XG:166:THR:HG21	25:XG:192:LEU:HD11	1.98	0.46
24:XH:325:PRO:HA	24:XH:328:VAL:HG12	1.97	0.46
40:Y1:393:THR:HG23	40:Y1:396:GLU:HB2	1.97	0.46
40:Y2:448:ASN:O	40:Y2:452:ASN:N	2.44	0.46
25:YC:301:CYS:SG	25:YC:302:ALA:N	2.89	0.46
24:YD:88:HIS:HB3	24:YD:91:GLN:OE1	2.16	0.46
24:YD:90:GLU:O	24:YD:121:ARG:NH1	2.49	0.46
25:YI:221:THR:OG1	25:YI:222:PHE:N	2.48	0.46
41:Z0:402:VAL:HG12	41:Z0:425:THR:HA	1.97	0.46
41:Z1:576:MET:O	41:Z1:580:LEU:N	2.43	0.46
24:ZB:102:ASN:ND2	24:ZB:411:GLU:OE1	2.49	0.46
24:ZB:175:PRO:HB3	24:ZB:390:ARG:HD3	1.97	0.46
24:ZD:171:VAL:HA	24:ZD:204:LEU:HB2	1.98	0.46
25:ZE:221:THR:HG23	25:ZE:223:GLY:H	1.81	0.46
24:ZH:177:VAL:HG22	25:ZI:331:LEU:HD12	1.98	0.46
24:ZH:269:LEU:HD13	24:ZH:301:MET:HE1	1.98	0.46
2:1A:1362:ARG:HH22	2:1A:1406:ARG:HE	1.64	0.46
2:1B:1936:GLU:OE1	18:C1:1575:ARG:NH1	2.46	0.46
2:1D:1900:VAL:HG11	2:1D:1917:LEU:HG	1.96	0.46
11:5C:456:THR:HA	11:5C:483:ILE:HA	1.98	0.46
15:9C:1083:ILE:HA	15:9C:1092:LEU:O	2.16	0.46
15:9F:797:SER:CB	15:9F:814:TYR:O	2.64	0.46
16:A3:100:PRO:HB3	19:G5:36:ALA:HB2	1.98	0.46
18:C0:1793:THR:O	18:C0:1795:ASN:ND2	2.48	0.46
18:C1:1381:LEU:HA	18:C1:1384:LEU:HD12	1.98	0.46
18:C2:1772:LEU:HD21	18:C2:1791:VAL:HG12	1.97	0.46
43:C2:2001:ANP:O2A	43:C2:2001:ANP:O1G	2.34	0.46
18:C3:1234:GLY:O	18:C3:1239:ARG:NH2	2.49	0.46
18:C4:21:LEU:O	18:C4:25:PHE:HB2	2.16	0.46
19:D0:329:LEU:HA	19:D0:332:ILE:HG22	1.98	0.46
19:D4:105:PHE:HD1	19:D4:108:ARG:HD3	1.81	0.46
19:D4:207:ASP:OD1	19:D4:208:ALA:N	2.48	0.46
19:G1:287:GLN:HA	19:G1:290:VAL:HG12	1.97	0.46
19:H0:16:GLU:OE2	19:H1:12:ARG:NH2	2.49	0.46
19:H2:119:GLN:HA	19:H2:122:ILE:HG22	1.98	0.46
19:H2:348:PRO:HB2	19:H2:352:LEU:HD12	1.98	0.46
19:H6:206:VAL:HG21	19:H6:243:LEU:HD22	1.97	0.46
19:H7:86:PRO:HA	19:H7:89:VAL:HG12	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:J0:397:LYS:O	19:J0:401:ARG:HG2	2.16	0.46
19:K1:218:VAL:HG12	19:K1:255:LYS:HB3	1.98	0.46
19:K2:94:GLU:HG2	26:O1:584:ALA:HB1	1.98	0.46
19:L0:360:LEU:HD21	19:L0:383:LEU:HD11	1.97	0.46
19:L3:149:LEU:HA	19:L3:152:ILE:HG12	1.98	0.46
22:M0:724:LEU:HD12	22:M0:724:LEU:HA	1.85	0.46
23:N0:30:VAL:HG21	25:UO:400:GLY:HA2	1.97	0.46
24:NH:8:HIS:ND1	24:NH:65:CYS:SG	2.86	0.46
24:NH:177:VAL:HG21	25:NI:327:ASP:HB3	1.98	0.46
25:NK:68:LEU:HD12	25:NK:97:ALA:HB2	1.98	0.46
24:OL:339:ARG:NH1	24:OL:339:ARG:HA	2.31	0.46
24:OP:339:ARG:O	24:OP:342:GLN:NE2	2.49	0.46
25:OQ:130:LEU:HB2	25:OQ:162:ARG:HE	1.81	0.46
24:PD:65:CYS:SG	24:PD:66:ILE:N	2.89	0.46
24:PD:139:ASN:OD1	24:PD:140:ALA:N	2.49	0.46
24:PF:194:LEU:O	24:PF:198:THR:OG1	2.30	0.46
25:PG:66:MET:HE3	25:PG:116:VAL:HG11	1.97	0.46
25:PI:7:ILE:HD13	25:PI:151:LEU:HD21	1.96	0.46
25:PO:156:ARG:NE	25:PO:195:ASN:O	2.49	0.46
28:Q1:273:ALA:HA	28:Q1:276:ARG:HD3	1.98	0.46
29:R0:2184:LEU:O	29:R0:2188:ALA:HB2	2.16	0.46
25:RG:198:GLU:HA	25:RG:264:HIS:HB2	1.97	0.46
24:RJ:251:ASP:H	24:RJ:254:GLU:HB2	1.81	0.46
24:RN:3:GLU:HA	24:RN:51:THR:HA	1.97	0.46
24:RN:406:HIS:HA	24:RN:409:VAL:HG12	1.97	0.46
25:SC:67:ASP:N	25:SC:67:ASP:OD1	2.47	0.46
24:SD:180:ALA:HB3	24:SD:183:GLU:HG3	1.98	0.46
25:SG:334:GLN:HE22	25:SG:348:ASN:H	1.63	0.46
24:SH:332:VAL:HG13	24:SH:351:PHE:HD1	1.81	0.46
25:SO:114:ASP:OD1	25:SO:114:ASP:N	2.49	0.46
24:TB:133:GLN:NE2	24:TB:251:ASP:OD2	2.47	0.46
25:TG:20:PHE:HA	25:TG:230:SER:HB2	1.98	0.46
24:TH:248:LEU:HB2	24:TH:355:ILE:HG12	1.97	0.46
25:TI:54:ALA:HB3	25:TI:58:ARG:HB3	1.98	0.46
25:TM:105:HIS:CD2	25:TM:150:LEU:HD12	2.51	0.46
24:UH:286:LEU:O	24:UH:373:ARG:NH1	2.49	0.46
24:UH:319:TYR:HB3	24:UH:323:VAL:HG21	1.98	0.46
25:UK:192:LEU:HD22	25:UK:196:ALA:HB2	1.98	0.46
24:UP:409:VAL:HA	24:UP:413:MET:HB3	1.97	0.46
24:VB:195:LEU:HD11	24:VB:428:LEU:HD22	1.98	0.46
24:VD:278:ALA:HA	24:VD:369:ALA:HB2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:VJ:73:THR:HG22	25:VK:46:ARG:HH12	1.81	0.46
24:VL:206:ASN:OD1	44:VL:501:GTP:O2'	2.27	0.46
25:VM:46:ARG:HD3	25:VM:46:ARG:HA	1.71	0.46
24:VN:79:ARG:HG3	24:VN:92:LEU:HD12	1.96	0.46
25:WA:191:GLN:O	25:WA:195:ASN:ND2	2.41	0.46
24:WB:137:VAL:HG11	24:WB:154:LEU:HD21	1.98	0.46
24:WD:65:CYS:SG	24:WD:66:ILE:N	2.88	0.46
25:WM:177:ASP:N	25:WM:181:GLU:OE2	2.49	0.46
39:X2:483:GLN:NE2	39:X2:614:VAL:O	2.49	0.46
39:X3:800:LEU:N	39:X3:810:LEU:O	2.45	0.46
24:XD:236:SER:OG	24:XD:243:ARG:NH2	2.48	0.46
25:XE:282:ARG:NH2	25:XE:292:GLN:OE1	2.49	0.46
24:XH:288:VAL:HG13	24:XH:319:TYR:HE2	1.81	0.46
24:XH:387:ILE:HG13	24:XH:390:ARG:NE	2.30	0.46
40:Y0:56:ILE:H	40:Y1:452:ASN:HD21	1.64	0.46
40:Y1:134:GLN:HA	40:Y1:137:LYS:HZ2	1.81	0.46
40:Y2:214:PRO:HA	40:Y2:282:VAL:HA	1.98	0.46
40:Y7:83:ALA:H	40:Y7:417:SER:HB2	1.81	0.46
25:YC:128:ASP:OD1	25:YC:129:CYS:N	2.47	0.46
24:YD:262:TYR:CD2	24:YD:265:ILE:HD12	2.50	0.46
24:YF:268:MET:SD	24:YF:380:ASN:ND2	2.88	0.46
24:YH:223:THR:OG1	25:YI:245:GLN:NE2	2.41	0.46
41:Z1:190:ASP:OD1	41:Z1:190:ASP:N	2.46	0.46
41:Z2:79:PHE:HD1	41:Z2:103:PRO:HB3	1.80	0.46
41:Z2:234:LEU:HD13	41:Z2:315:LEU:HD12	1.98	0.46
41:Z2:272:ALA:O	41:Z2:276:ALA:N	2.48	0.46
41:Z2:568:LEU:HB3	41:Z2:572:ASP:HB2	1.98	0.46
25:ZE:169:VAL:HG13	25:ZE:203:ASP:HA	1.97	0.46
24:ZJ:274:PRO:HD3	24:ZJ:291:ILE:HB	1.97	0.46
25:ZK:3:GLU:HA	25:ZK:49:VAL:HA	1.98	0.46
2:1A:1701:LEU:HD22	2:1A:1922:TRP:HA	1.98	0.45
2:1A:2060:LEU:O	2:1A:2091:LEU:HA	2.16	0.45
2:1C:1425:VAL:HA	2:1C:1428:LEU:HB3	1.97	0.45
2:1C:2060:LEU:HG	2:1C:2241:LEU:HD23	1.98	0.45
2:1C:2499:LEU:HD13	18:C2:1160:LEU:HD13	1.99	0.45
2:1D:1590:THR:OG1	2:1D:1705:GLU:OE2	2.29	0.45
4:2B:203:LYS:HA	4:2B:206:GLU:HG3	1.98	0.45
9:3L:111:ARG:O	9:3L:115:SER:N	2.49	0.45
15:9B:1343:GLY:HA2	15:9B:1348:LEU:HA	1.98	0.45
15:9E:797:SER:CB	15:9E:814:TYR:O	2.64	0.45
16:A1:28:ILE:HB	16:A1:31:ARG:HG2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:C1:1225:PHE:HZ	18:C1:1242:LEU:HD13	1.81	0.45
18:C3:1293:GLN:HE22	18:C3:1337:LEU:HB2	1.80	0.45
18:C3:1392:TRP:HZ2	18:C3:1438:GLY:HA2	1.80	0.45
19:D7:337:LEU:HB3	19:D7:377:THR:HG21	1.97	0.45
20:E1:89:ALA:HB2	20:E1:119:TRP:HE1	1.82	0.45
20:E2:345:SER:OG	20:E2:346:ALA:N	2.50	0.45
20:E3:395:VAL:HG13	24:VN:338:LYS:NZ	2.31	0.45
19:G1:260:LEU:HD22	19:G1:297:ALA:HB1	1.97	0.45
19:G3:139:PRO:HB3	19:G3:180:GLU:HG3	1.98	0.45
19:G3:180:GLU:HB2	19:G3:183:LEU:HB2	1.99	0.45
19:H4:268:LYS:HB3	19:H4:301:TYR:CE1	2.50	0.45
19:I0:302:ILE:HD11	19:I0:310:ARG:HD3	1.97	0.45
19:I1:171:LEU:HD13	19:I1:174:LEU:HD12	1.98	0.45
19:J0:79:VAL:HG13	19:J0:84:ILE:HB	1.97	0.45
19:J0:399:LYS:HD3	19:J0:399:LYS:HA	1.67	0.45
19:K0:395:ASP:OD1	19:K0:395:ASP:N	2.46	0.45
19:K2:59:GLN:HE22	19:K2:102:ALA:HB2	1.79	0.45
24:NJ:398:MET:HE2	25:NK:345:ILE:HA	1.97	0.45
25:NM:113:ILE:HA	25:NM:116:VAL:HG22	1.98	0.45
25:OE:235:GLY:HA3	25:OE:366:THR:HG21	1.98	0.45
25:OG:293:MET:SD	25:OG:367:PHE:HB2	2.56	0.45
25:OI:178:THR:OG1	25:OI:181:GLU:OE1	2.34	0.45
24:OJ:272:TYR:HB3	24:OJ:275:ILE:HD11	1.97	0.45
25:OQ:165:LEU:HD23	25:OQ:198:GLU:HB2	1.97	0.45
24:PH:101:ASN:HD22	25:PI:256:ASN:HD21	1.64	0.45
25:PI:128:ASP:OD1	25:PI:129:CYS:N	2.47	0.45
24:PP:309:HIS:ND1	24:PP:386:GLU:OE1	2.45	0.45
28:Q1:853:PRO:HB2	28:Q1:888:ALA:HB2	1.98	0.45
28:Q1:920:PRO:HD3	28:Q1:1021:LEU:HG	1.98	0.45
28:Q1:3120:PRO:HB2	28:Q1:3127:LEU:HB3	1.97	0.45
24:QF:124:LYS:HD2	24:QF:124:LYS:HA	1.81	0.45
24:QH:406:HIS:HA	24:QH:409:VAL:HG12	1.97	0.45
25:QK:215:LEU:HB3	25:QK:217:LEU:HD23	1.98	0.45
24:QL:286:LEU:HB3	24:QL:291:ILE:HD11	1.97	0.45
25:QQ:313:ALA:HB1	25:QQ:367:PHE:HE1	1.81	0.45
24:RF:187:SER:O	24:RF:191:THR:OG1	2.27	0.45
25:RI:98:GLY:HA2	24:RJ:254:GLU:HG2	1.97	0.45
30:S0:38:LYS:HB2	30:S0:41:TRP:HB2	1.97	0.45
30:S1:121:ALA:HB3	24:VJ:322:ASP:HB2	1.98	0.45
25:SC:4:ILE:HB	25:SC:50:TYR:HE1	1.81	0.45
25:SE:391:ARG:NH2	24:SF:439:SER:OG	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:SF:202:VAL:HA	24:SF:268:MET:HB2	1.99	0.45
24:SF:213:CYS:HA	24:SF:217:LEU:HB3	1.97	0.45
25:SI:287:PRO:HA	25:SI:290:THR:HG22	1.98	0.45
25:SK:268:VAL:HG23	25:SK:300:MET:HB2	1.98	0.45
25:SM:253:LEU:HD22	25:SM:368:ILE:HD12	1.97	0.45
24:TJ:288:VAL:HG13	24:TJ:319:TYR:HE2	1.82	0.45
25:TM:68:LEU:HD12	25:TM:97:ALA:HB2	1.97	0.45
25:TM:182:PRO:HG3	25:TM:384:GLN:HB3	1.98	0.45
24:UD:2:ARG:HE	24:UD:51:THR:HG22	1.81	0.45
24:UD:288:VAL:HG13	24:UD:319:TYR:HE2	1.81	0.45
25:UG:271:THR:HG21	25:UG:293:MET:HE2	1.97	0.45
24:VB:252:ILE:HA	24:VB:255:PHE:HD2	1.81	0.45
25:VE:248:ALA:HA	25:VE:252:LYS:HG2	1.97	0.45
25:VG:237:THR:HG23	25:VG:241:ARG:HH21	1.80	0.45
24:WD:231:ILE:O	24:WD:235:ILE:HG12	2.16	0.45
25:WE:289:LEU:HD22	25:WE:363:MET:HG3	1.98	0.45
24:WF:6:SER:HA	24:WF:136:LEU:HB2	1.99	0.45
24:WF:33:ASP:HA	24:WF:85:GLN:HB2	1.97	0.45
24:WL:195:LEU:HD21	24:WL:428:LEU:HD22	1.97	0.45
24:WN:223:THR:OG1	24:WN:224:TYR:N	2.48	0.45
39:X3:166:THR:HA	39:X3:188:LEU:HA	1.98	0.45
24:XB:136:LEU:HD13	24:XB:235:ILE:HD11	1.99	0.45
25:XE:274:THR:HB	25:XE:282:ARG:HH11	1.81	0.45
25:XK:177:ASP:OD1	25:XK:178:THR:N	2.49	0.45
25:XO:135:VAL:HG21	25:XO:152:ILE:HD11	1.98	0.45
40:Y0:75:PHE:HB3	40:Y0:162:LYS:HD2	1.97	0.45
40:Y2:8:GLU:HG2	40:Y2:9:LYS:HD3	1.98	0.45
40:Y2:195:ILE:HB	40:Y2:210:PHE:HB2	1.98	0.45
40:Y4:352:THR:OG1	40:Y4:380:ALA:O	2.32	0.45
24:YB:292:THR:OG1	24:YB:319:TYR:OH	2.32	0.45
25:YC:31:ASP:OD1	25:YC:35:THR:N	2.49	0.45
25:YC:176:SER:OG	25:YC:178:THR:O	2.34	0.45
24:YD:153:LEU:HD12	24:YD:153:LEU:HA	1.81	0.45
24:YF:251:ASP:H	24:YF:254:GLU:HG3	1.81	0.45
25:YG:319:GLY:N	25:YG:354:CYS:O	2.49	0.45
25:YI:170:VAL:HG11	25:YI:201:VAL:HG13	1.97	0.45
24:YJ:188:VAL:HG12	24:YJ:425:LEU:HD13	1.96	0.45
24:YL:31:GLN:NE2	24:YL:32:PRO:HD2	2.30	0.45
24:YL:288:VAL:HG13	24:YL:319:TYR:HE2	1.80	0.45
24:YN:90:GLU:HB2	24:YN:121:ARG:HH21	1.81	0.45
25:YO:49:VAL:HG11	25:YO:241:ARG:HG2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:YP:271:SER:HA	24:YP:302:MET:HG2	1.98	0.45
25:ZO:134:GLN:HA	25:ZO:165:LEU:HB2	1.98	0.45
24:ZP:90:GLU:O	24:ZP:121:ARG:NE	2.48	0.45
2:1A:1368:THR:OG1	2:1A:1370:LYS:NZ	2.48	0.45
2:1A:2046:LEU:HD13	2:1A:2110:LEU:HD13	1.98	0.45
13:7K:96:ALA:HB1	13:7K:117:ALA:HA	1.97	0.45
15:9C:932:LEU:HA	15:9C:961:GLY:HA2	1.98	0.45
18:C0:1623:GLU:O	18:C0:1627:HIS:CB	2.64	0.45
18:C3:798:ALA:HA	18:C3:801:VAL:HG12	1.98	0.45
19:D3:340:LEU:HD13	19:D3:360:LEU:HD21	1.97	0.45
19:D5:170:PRO:HA	19:D5:173:VAL:HG22	1.99	0.45
19:D6:248:VAL:HG21	19:D6:285:LEU:HD22	1.97	0.45
19:D7:242:ASP:N	19:D7:242:ASP:OD1	2.49	0.45
21:F2:26:GLN:NE2	21:F2:88:GLN:OE1	2.38	0.45
19:G0:302:ILE:HD12	19:G0:314:ILE:HG23	1.98	0.45
19:G3:148:THR:O	19:G3:152:ILE:HG12	2.16	0.45
19:G4:210:ALA:O	19:G4:214:LEU:CB	2.64	0.45
19:H0:328:ALA:O	19:H0:332:ILE:HG12	2.17	0.45
19:J3:70:ASN:O	19:J3:112:ARG:NH2	2.50	0.45
19:L3:386:LEU:HD23	19:L3:397:LYS:HD3	1.97	0.45
24:NH:191:THR:HA	24:NH:194:LEU:HB2	1.97	0.45
24:NL:305:CYS:HB3	24:NL:387:ILE:HD11	1.98	0.45
24:OH:201:ALA:O	24:OH:268:MET:N	2.46	0.45
25:OI:325:GLU:HA	25:OI:328:GLU:HG2	1.97	0.45
24:OJ:240:ALA:HA	24:OJ:243:ARG:HE	1.81	0.45
25:OM:272:PRO:HG3	25:OM:364:SER:HA	1.99	0.45
24:ON:108:TYR:O	24:ON:112:LYS:NZ	2.36	0.45
24:ON:265:ILE:HG23	24:ON:432:PHE:CE1	2.52	0.45
24:OP:9:ILE:HG13	24:OP:68:LEU:HD21	1.98	0.45
24:OP:324:VAL:HG23	24:OP:326:LYS:H	1.80	0.45
25:OQ:276:ARG:HD3	25:OQ:276:ARG:HA	1.75	0.45
25:PG:113:ILE:HG13	25:PG:150:LEU:HD22	1.99	0.45
25:PI:36:TYR:HB2	25:PI:59:TYR:HE2	1.80	0.45
24:PN:328:VAL:HG11	24:PN:355:ILE:HD11	1.98	0.45
24:PN:406:HIS:HA	24:PN:409:VAL:HG12	1.98	0.45
28:Q0:1325:VAL:HG21	28:Q0:1356:LEU:HD13	1.98	0.45
28:Q1:872:GLY:O	28:Q1:875:THR:OG1	2.27	0.45
28:Q1:2190:ARG:HH12	28:Q1:2234:ASP:HA	1.81	0.45
28:Q1:2881:VAL:HG11	28:Q1:2961:PHE:HE2	1.81	0.45
24:QH:132:LEU:HD22	24:QH:164:LYS:HE3	1.98	0.45
25:QO:204:ASN:OD1	46:QO:501:GDP:O2'	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:R0:120:LEU:HD21	29:R0:166:HIS:HB3	1.99	0.45
25:RC:113:ILE:HA	25:RC:116:VAL:HG12	1.99	0.45
25:RE:113:ILE:HA	25:RE:116:VAL:HG12	1.98	0.45
25:RI:272:PRO:HG3	25:RI:364:SER:HA	1.97	0.45
25:RK:175:VAL:HG21	24:RL:329:ASN:HB3	1.97	0.45
25:RK:198:GLU:HB2	25:RK:266:PHE:HE2	1.80	0.45
24:RL:50:ASN:O	24:RL:64:ARG:NH1	2.50	0.45
25:RM:121:ARG:NE	25:RM:158:GLU:OE2	2.42	0.45
25:RM:416:ASN:ND2	33:U1:194:ARG:O	2.49	0.45
24:RN:109:THR:HG21	24:RN:411:GLU:HB3	1.98	0.45
24:RP:170:THR:HG21	24:RP:194:LEU:HD21	1.99	0.45
24:RP:275:ILE:HG23	24:RP:368:LEU:HD21	1.98	0.45
25:SC:328:GLU:OE2	25:SC:332:ASN:ND2	2.43	0.45
24:SD:401:LYS:HB2	24:SD:401:LYS:HE3	1.78	0.45
24:SN:157:LEU:HB3	24:SN:166:LYS:HZ1	1.81	0.45
25:SO:252:LYS:HG3	25:SO:350:LYS:HE2	1.98	0.45
25:TE:407:GLU:HA	25:TE:410:GLU:HG3	1.98	0.45
24:TF:221:ARG:NH1	25:TG:322:SER:OG	2.48	0.45
24:TH:8:HIS:CE1	24:TH:17:GLY:HA3	2.50	0.45
25:TK:396:HIS:HA	25:TK:399:THR:HG22	1.98	0.45
24:TP:278:ALA:HA	24:TP:369:ALA:HB2	1.98	0.45
24:UF:398:MET:HE3	25:UG:345:ILE:HA	1.97	0.45
24:UH:254:GLU:OE1	24:UH:352:LYS:NZ	2.46	0.45
25:UI:334:GLN:HG2	25:UI:341:PHE:HE2	1.80	0.45
25:UO:113:ILE:HA	25:UO:116:VAL:HG22	1.97	0.45
24:VB:25:CYS:O	24:VB:30:ILE:N	2.48	0.45
25:VO:263:LEU:HD21	25:VO:421:GLU:HG3	1.98	0.45
24:VP:76:ASP:HA	24:VP:79:ARG:HB2	1.98	0.45
24:WF:210:TYR:HB3	25:WG:324:LYS:NZ	2.31	0.45
24:WH:96:LYS:HZ2	25:WI:129:CYS:HB2	1.82	0.45
24:WN:112:LYS:HD3	24:WN:152:LEU:HD21	1.98	0.45
39:X0:236:ASP:HA	39:X0:258:ASP:HB3	1.98	0.45
39:X0:881:PRO:HA	39:X0:918:SER:HA	1.99	0.45
25:XA:63:ALA:O	25:XA:89:ASN:ND2	2.48	0.45
24:XB:288:VAL:HG13	24:XB:319:TYR:HE2	1.80	0.45
24:XD:97:GLU:OE1	24:XD:98:ASP:N	2.48	0.45
25:XE:49:VAL:HG21	25:XE:241:ARG:HG2	1.99	0.45
24:XJ:273:ALA:HB3	24:XJ:375:VAL:H	1.82	0.45
25:XK:164:MET:HB3	25:XK:197:ASP:H	1.81	0.45
40:Y0:389:ASN:HD22	40:Y0:416:ARG:HD3	1.81	0.45
40:Y2:389:ASN:HD22	40:Y2:416:ARG:HD3	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:Y4:386:LEU:HB3	40:Y4:413:THR:HA	1.98	0.45
40:Y5:130:ALA:O	40:Y5:134:GLN:N	2.47	0.45
40:Y7:425:ILE:HD12	40:Y7:450:LYS:HZ1	1.81	0.45
25:YI:156:ARG:HE	25:YI:156:ARG:HB3	1.56	0.45
25:YI:205:GLU:N	25:YI:205:GLU:OE1	2.49	0.45
25:YK:325:GLU:HA	25:YK:328:GLU:HG2	1.98	0.45
24:YN:250:VAL:HB	24:YN:254:GLU:HG2	1.99	0.45
41:Z3:154:PHE:O	41:Z3:159:ARG:NE	2.48	0.45
25:ZG:248:ALA:HA	25:ZG:252:LYS:HD2	1.97	0.45
24:ZJ:76:ASP:HA	24:ZJ:79:ARG:HB2	1.98	0.45
24:ZL:305:CYS:SG	24:ZL:306:ASP:N	2.90	0.45
2:1A:2155:VAL:HG13	2:1A:2301:LEU:HB2	1.97	0.45
4:2A:299:THR:HG23	4:2A:389:ARG:HH21	1.80	0.45
9:3L:139:TYR:O	9:3L:143:MET:N	2.46	0.45
13:7E:145:GLY:O	13:7E:161:PHE:N	2.50	0.45
17:B0:683:LYS:HA	17:B0:683:LYS:HE3	1.99	0.45
18:C0:407:LEU:HB3	18:C0:411:ARG:HH12	1.82	0.45
18:C2:839:ALA:HA	18:C2:842:ARG:HH22	1.80	0.45
18:C3:1304:ASN:HA	18:C3:1307:ARG:HG2	1.98	0.45
19:D0:195:SER:HB3	19:D0:205:VAL:HG21	1.97	0.45
19:D2:337:LEU:HD11	19:D2:374:VAL:HG22	1.98	0.45
19:D3:128:ASP:OD1	19:D3:129:SER:N	2.49	0.45
19:D5:145:SER:O	19:D5:148:THR:OG1	2.32	0.45
19:D7:287:GLN:HA	19:D7:290:VAL:HG22	1.97	0.45
21:F1:172:LEU:O	21:F1:182:VAL:HA	2.16	0.45
19:G0:33:ASN:HD21	19:G1:2:ALA:HA	1.81	0.45
19:G2:203:GLN:HA	19:G2:206:VAL:HG12	1.97	0.45
19:G2:302:ILE:HG23	19:G2:310:ARG:HH22	1.80	0.45
19:G4:397:LYS:O	19:G4:401:ARG:HG2	2.17	0.45
19:G5:301:TYR:O	19:G5:305:SER:HB3	2.16	0.45
19:H3:347:GLU:HG2	19:H3:353:LYS:HD2	1.97	0.45
19:H3:348:PRO:HG2	19:H3:352:LEU:HD13	1.97	0.45
19:H7:97:ARG:HG3	19:H7:138:ASP:OD2	2.17	0.45
19:I0:17:ARG:NH1	19:I0:52:ASP:OD2	2.49	0.45
19:I0:248:VAL:HG21	19:I0:285:LEU:HD22	1.97	0.45
19:J1:276:ARG:HD2	19:J1:312:PRO:HB3	1.98	0.45
19:K0:398:THR:HB	19:K0:402:ARG:NH1	2.30	0.45
19:K3:12:ARG:HH12	19:K3:16:GLU:HG2	1.81	0.45
19:L0:122:ILE:HG12	19:L0:127:LEU:HD21	1.97	0.45
19:L0:179:PRO:HG2	22:M1:94:GLY:N	2.31	0.45
19:L0:226:LYS:HB3	19:L0:267:VAL:HG21	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L0:369:ASP:OD1	19:L0:369:ASP:N	2.47	0.45
19:L2:358:TRP:HB2	19:L2:396:LEU:HD21	1.97	0.45
23:N2:137:PHE:HA	23:N2:140:ARG:HD2	1.97	0.45
25:NE:281:TYR:OH	25:ZE:83:GLN:O	2.26	0.45
24:NF:102:ASN:HB3	24:NF:105:ARG:HB2	1.97	0.45
24:NJ:7:ILE:HG22	24:NJ:66:ILE:HB	1.97	0.45
24:NL:194:LEU:O	24:NL:198:THR:OG1	2.30	0.45
25:NM:132:GLY:HA2	25:NM:162:ARG:HB3	1.99	0.45
25:NO:173:PRO:HG3	25:NO:380:ARG:NH1	2.32	0.45
26:O0:334:GLU:HA	26:O0:337:ARG:HB3	1.97	0.45
24:OD:105:ARG:HH11	24:OD:110:ILE:HD13	1.81	0.45
25:OE:2:ARG:HG2	25:OE:131:GLN:HE21	1.81	0.45
24:OH:2:ARG:HB2	24:OH:133:GLN:HG3	1.99	0.45
25:OI:139:LEU:HG	25:OI:168:SER:HB2	1.99	0.45
24:OL:223:THR:OG1	24:OL:224:TYR:N	2.49	0.45
25:OQ:85:PHE:HB2	25:OQ:90:PHE:HE1	1.81	0.45
25:OQ:396:HIS:HA	25:OQ:399:THR:HG22	1.99	0.45
25:PM:412:GLU:HA	25:PM:415:MET:HB3	1.98	0.45
24:PP:209:ILE:HG23	24:PP:230:LEU:HD11	1.97	0.45
24:PP:217:LEU:HG	24:PP:275:ILE:HG22	1.98	0.45
28:Q1:2364:HIS:NE2	28:Q1:2460:MET:HE1	2.31	0.45
24:QF:31:GLN:HE22	24:QF:37:PRO:HD3	1.81	0.45
25:QG:7:ILE:O	25:QG:135:VAL:HA	2.16	0.45
25:QG:287:PRO:HD2	25:QG:288:GLU:H	1.81	0.45
24:QN:305:CYS:SG	24:QN:306:ASP:N	2.90	0.45
29:R1:76:ARG:NH2	29:R1:78:TYR:OH	2.44	0.45
24:RD:69:ASP:OD1	24:RD:69:ASP:N	2.50	0.45
25:RE:207:LEU:HB3	25:RE:225:LEU:HG	1.98	0.45
25:RK:32:PRO:HD3	25:RK:81:TYR:HE1	1.82	0.45
25:SO:204:ASN:OD1	46:SO:502:GDP:O2'	2.31	0.45
24:TJ:244:PHE:HB2	24:TJ:356:ASN:HD21	1.82	0.45
24:TJ:273:ALA:HB3	24:TJ:375:VAL:HB	1.98	0.45
24:TJ:336:LYS:O	24:TJ:339:ARG:NH2	2.47	0.45
25:TK:17:GLY:HA2	25:TK:20:PHE:HB3	1.97	0.45
25:TM:114:ASP:OD1	25:TM:114:ASP:N	2.49	0.45
24:TN:396:ASP:OD1	24:TN:422:ARG:NE	2.42	0.45
33:U0:29:HIS:HA	33:U0:51:TRP:HB2	1.98	0.45
24:UD:202:VAL:HA	24:UD:268:MET:HB2	1.98	0.45
25:UE:182:PRO:O	25:UE:186:THR:OG1	2.28	0.45
25:UG:11:GLN:NE2	24:UH:247:ALA:O	2.49	0.45
24:UN:6:SER:HA	24:UN:136:LEU:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:VD:334:THR:O	24:VD:337:THR:OG1	2.33	0.45
25:VE:49:VAL:HG11	25:VE:241:ARG:HG2	1.97	0.45
25:VK:22:GLU:HG2	25:VK:81:TYR:HB2	1.98	0.45
24:VN:177:VAL:HG21	24:VN:207:GLU:HB2	1.98	0.45
25:VO:139:LEU:HD12	25:VO:170:VAL:HG22	1.98	0.45
25:WA:297:LYS:HE2	25:WA:297:LYS:HB2	1.80	0.45
25:WE:211:CYS:HB2	24:WF:326:LYS:NZ	2.27	0.45
24:WF:401:LYS:HD2	25:WG:344:TRP:CD2	2.51	0.45
24:WH:46:ASP:OD1	24:WH:47:ASP:N	2.50	0.45
24:WH:345:ASP:OD1	24:WH:345:ASP:N	2.49	0.45
25:WK:236:ILE:HD12	25:WK:368:ILE:HD11	1.98	0.45
24:XB:186:ASN:OD1	24:XB:408:TYR:OH	2.25	0.45
25:XC:89:ASN:HA	25:XC:119:VAL:HG11	1.99	0.45
25:XI:49:VAL:HG21	25:XI:241:ARG:HG2	1.99	0.45
24:XL:223:THR:OG1	24:XL:224:TYR:N	2.48	0.45
40:Y4:53:ARG:HD3	40:Y5:459:GLU:HG2	1.98	0.45
40:Y4:216:GLY:O	40:Y4:281:LYS:NZ	2.38	0.45
40:Y6:405:LYS:NZ	40:Y6:432:LEU:O	2.49	0.45
24:YD:191:THR:HG21	24:YD:388:PHE:HE1	1.81	0.45
25:YE:156:ARG:HD3	25:YE:160:PRO:HA	1.98	0.45
25:YG:416:ASN:HA	25:YG:419:VAL:HG12	1.98	0.45
25:YI:238:CYS:HB2	25:YI:318:ARG:NH1	2.32	0.45
25:YO:31:ASP:OD1	25:YO:35:THR:N	2.45	0.45
25:ZC:7:ILE:HD13	25:ZC:151:LEU:HD21	1.96	0.45
24:ZF:101:ASN:HA	24:ZF:144:GLY:H	1.81	0.45
24:ZF:370:LYS:HE3	24:ZF:370:LYS:HB3	1.74	0.45
24:ZL:247:ALA:HB3	24:ZL:355:ILE:HB	1.98	0.45
24:ZP:5:ILE:O	24:ZP:135:PHE:HA	2.17	0.45
2:1A:2181:GLN:NE2	2:1A:2188:GLU:OE2	2.50	0.45
2:1B:1580:VAL:HA	2:1B:1704:VAL:O	2.16	0.45
2:1C:1923:ARG:HG3	2:1C:1924:ARG:H	1.82	0.45
2:1C:2296:LYS:O	2:1C:2299:THR:OG1	2.33	0.45
2:1D:1269:VAL:HG11	2:1D:1325:PHE:HB2	1.98	0.45
2:1D:2044:ALA:N	2:1D:2077:LEU:HB3	2.26	0.45
4:2A:209:GLN:HA	4:2A:212:ARG:HG2	1.98	0.45
4:2B:365:SER:HG	4:2B:369:TYR:HH	1.56	0.45
13:7F:122:GLY:O	13:7F:138:TRP:N	2.49	0.45
18:C3:267:ALA:HA	19:D4:351:HIS:NE2	2.31	0.45
18:C3:1636:ILE:HD11	18:C3:1674:PHE:HB2	1.97	0.45
18:C3:1758:PRO:HA	18:C3:1764:PRO:HA	1.97	0.45
18:C4:77:ARG:HD3	18:C4:77:ARG:HA	1.56	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:C4:79:ALA:O	18:C4:83:ILE:HG12	2.15	0.45
19:D4:185:ARG:HE	19:D4:224:LYS:HD3	1.82	0.45
19:D5:54:VAL:HB	19:D5:57:ILE:HG12	1.98	0.45
19:D6:318:GLY:HA3	19:D6:359:THR:HG22	1.97	0.45
19:D6:377:THR:HA	26:O2:201:ARG:NE	2.31	0.45
20:E3:394:ARG:HA	24:UN:123:ARG:HG2	1.98	0.45
19:H3:240:SER:HB3	19:H3:243:LEU:HG	1.97	0.45
19:H4:179:PRO:HA	19:H4:184:LYS:HE2	1.97	0.45
19:H5:235:GLN:OE1	19:H5:238:LYS:NZ	2.46	0.45
19:H5:276:ARG:HB3	19:H5:316:ALA:HB2	1.97	0.45
19:I0:168:ALA:HB1	19:I0:172:LEU:HD23	1.98	0.45
19:I1:4:ARG:HH12	24:OJ:423:GLU:HG2	1.80	0.45
19:J2:10:PHE:HE2	19:J3:42:ALA:HB2	1.80	0.45
19:K0:55:PRO:O	19:K0:59:GLN:HG2	2.17	0.45
19:K2:353:LYS:HA	19:K2:353:LYS:HD3	1.73	0.45
19:K3:108:ARG:HB3	19:K3:148:THR:HG22	1.99	0.45
19:K3:349:GLU:HG3	19:K3:352:LEU:HD12	1.98	0.45
19:L0:402:ARG:HA	19:L0:405:LYS:HD3	1.98	0.45
19:L1:144:ALA:HA	19:L1:147:TRP:HD1	1.82	0.45
22:M1:879:GLU:HB2	22:M1:925:ARG:HH12	1.81	0.45
25:NC:271:THR:HG21	25:NC:293:MET:HE2	1.98	0.45
24:ND:87:PHE:HB3	24:ND:92:LEU:HD21	1.97	0.45
25:NI:156:ARG:NH2	25:NI:197:ASP:OD1	2.50	0.45
25:NI:234:SER:O	25:NI:241:ARG:NH2	2.48	0.45
24:NN:417:GLU:HA	24:NN:420:GLU:HB3	1.98	0.45
24:OD:301:MET:HG3	24:OD:303:VAL:H	1.81	0.45
25:OI:36:TYR:O	25:OI:37:HIS:ND1	2.49	0.45
25:OK:207:LEU:HB3	25:OK:225:LEU:HD22	1.99	0.45
25:OQ:132:GLY:HA3	25:OQ:163:MET:HB3	1.99	0.45
25:PG:19:LYS:HD3	25:PG:226:ASN:HB2	1.97	0.45
25:PI:22:GLU:HA	25:PI:81:TYR:HD2	1.80	0.45
24:PJ:79:ARG:NH2	24:PJ:92:LEU:O	2.49	0.45
24:PN:206:ASN:ND2	44:PN:501:GTP:N2	2.62	0.45
25:QI:21:TRP:CH2	25:QI:50:TYR:HB3	2.51	0.45
24:QN:116:ASP:OD1	24:QN:117:LEU:N	2.49	0.45
25:QO:236:ILE:HD12	25:QO:368:ILE:HD11	1.97	0.45
25:QO:396:HIS:HA	25:QO:399:THR:HG22	1.99	0.45
25:RE:416:ASN:HA	25:RE:419:VAL:HG22	1.99	0.45
24:RF:2:ARG:NH2	24:RF:243:ARG:O	2.42	0.45
25:RI:7:ILE:HD13	25:RI:151:LEU:HD21	1.98	0.45
25:RM:31:ASP:OD2	25:RM:37:HIS:NE2	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:RO:1:MET:SD	25:RO:1:MET:N	2.83	0.45
24:SD:116:ASP:OD1	24:SD:116:ASP:N	2.50	0.45
24:SD:332:VAL:HG13	24:SD:351:PHE:HD2	1.80	0.45
25:SE:236:ILE:HD12	25:SE:368:ILE:HD11	1.99	0.45
24:SH:185:TYR:HE2	24:SH:404:PHE:HB2	1.82	0.45
25:SI:138:SER:HA	25:SI:169:VAL:H	1.82	0.45
25:SI:257:LEU:HD23	25:SI:312:THR:HG22	1.97	0.45
25:SK:418:LEU:HD23	25:SK:418:LEU:HA	1.85	0.45
24:SN:272:TYR:HB3	24:SN:275:ILE:HD11	1.99	0.45
24:SP:267:PHE:HE2	24:SP:428:LEU:HD21	1.82	0.45
32:T2:212:VAL:HA	32:T2:218:VAL:HA	1.99	0.45
32:T3:123:GLU:HA	32:T3:176:VAL:O	2.15	0.45
24:TD:191:THR:HA	24:TD:194:LEU:HB2	1.99	0.45
24:TH:90:GLU:HB2	24:UH:280:LYS:HZ2	1.82	0.45
24:TL:16:VAL:O	24:TL:20:CYS:N	2.46	0.45
24:TL:229:ARG:HH11	24:TL:363:VAL:HG11	1.81	0.45
24:TL:332:VAL:HG22	24:TL:351:PHE:HD2	1.82	0.45
25:TM:128:ASP:OD1	25:TM:129:CYS:N	2.49	0.45
25:TM:298:ASN:O	25:TM:298:ASN:ND2	2.43	0.45
25:TO:135:VAL:HG21	25:TO:152:ILE:HD11	1.98	0.45
33:U1:194:ARG:NH2	33:U1:198:GLU:OE1	2.50	0.45
24:UD:221:ARG:NH2	25:UE:286:VAL:HG21	2.31	0.45
24:UF:68:LEU:HA	24:UF:93:ILE:HB	1.97	0.45
24:UH:387:ILE:HA	24:UH:390:ARG:NH1	2.31	0.45
25:UK:8:GLN:HB2	25:UK:65:LEU:HD23	1.98	0.45
25:UO:172:SER:OG	25:UO:205:GLU:OE1	2.25	0.45
24:VD:324:VAL:HG23	24:VD:326:LYS:HG2	1.98	0.45
24:VF:242:LEU:HD11	24:VF:252:ILE:HG12	1.98	0.45
25:VG:170:VAL:HG11	25:VG:377:MET:HE1	1.98	0.45
25:VO:7:ILE:HG21	25:VO:151:LEU:HD23	1.97	0.45
25:WA:396:HIS:HA	25:WA:399:THR:HG22	1.98	0.45
24:WD:417:GLU:HA	24:WD:420:GLU:HG3	1.99	0.45
25:WG:22:GLU:HG2	25:WG:81:TYR:HB2	1.98	0.45
24:XD:50:ASN:O	24:XD:64:ARG:NH1	2.50	0.45
24:XD:137:VAL:HG11	24:XD:154:LEU:HD11	1.98	0.45
24:XD:226:ASN:ND2	24:XD:367:ASP:OD2	2.50	0.45
25:XE:219:THR:HB	24:XF:324:VAL:HG11	1.98	0.45
25:XK:397:TRP:HE1	24:XL:260:VAL:HB	1.80	0.45
40:Y1:287:ASP:HA	40:Y1:337:GLU:HB3	1.98	0.45
40:Y3:194:ILE:HD12	40:Y3:234:LEU:HD13	1.99	0.45
40:Y4:456:ARG:NH1	40:Y5:76:ARG:HH12	2.14	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:Y5:415:HIS:HD2	40:Y5:439:THR:HG23	1.81	0.45
40:Y6:117:ILE:HG21	40:Y6:156:VAL:HG21	1.98	0.45
40:Y6:381:VAL:HG23	40:Y6:409:TRP:CH2	2.52	0.45
25:YE:175:VAL:HG23	24:YF:332:VAL:HG11	1.98	0.45
25:YO:213:ARG:NH2	25:YO:297:LYS:HB3	2.31	0.45
24:YP:24:TYR:HE1	24:YP:236:SER:HB2	1.82	0.45
41:Z0:44:ALA:O	41:Z0:51:LEU:N	2.38	0.45
25:ZC:177:ASP:OD1	25:ZC:178:THR:N	2.49	0.45
24:ZF:173:PRO:O	24:ZF:390:ARG:NH2	2.50	0.45
25:ZG:391:ARG:NH1	24:ZH:439:SER:OG	2.46	0.45
25:ZO:417:ASP:O	25:ZO:421:GLU:HG3	2.17	0.45
2:1A:2448:GLU:O	2:1A:2452:ARG:HG2	2.17	0.45
2:1C:2031:ARG:NE	2:1C:2163:GLN:HE22	2.14	0.45
16:A2:192:ILE:HA	16:A2:195:ILE:HG12	1.98	0.45
16:A3:126:LEU:N	16:A3:129:SER:OG	2.50	0.45
17:B1:311:ILE:HA	17:B1:314:GLU:HG3	1.99	0.45
17:B2:318:GLU:OE1	17:B2:321:ARG:NH2	2.49	0.45
18:C1:448:GLU:HA	18:C1:451:ARG:HG3	1.98	0.45
18:C3:1644:MET:HA	18:C3:1647:GLN:HG3	1.99	0.45
19:D0:268:LYS:HG3	19:D0:301:TYR:HE1	1.80	0.45
19:D3:221:GLN:HA	19:D3:226:LYS:HE2	1.99	0.45
19:D3:371:ALA:HA	19:D3:374:VAL:HG12	1.99	0.45
19:D4:394:ASP:HA	19:D4:397:LYS:HG2	1.97	0.45
19:G2:242:ASP:OD1	19:G2:243:LEU:N	2.50	0.45
19:G2:355:ALA:O	19:G2:359:THR:HG23	2.16	0.45
19:G2:442:ALA:HB1	19:G2:445:ALA:HB3	1.97	0.45
19:G4:108:ARG:HD3	19:G4:147:TRP:HB3	1.99	0.45
19:G4:242:ASP:OD1	19:G4:243:LEU:N	2.50	0.45
19:H0:279:ALA:HA	19:H0:285:LEU:HD22	1.98	0.45
19:H1:70:ASN:O	19:H1:112:ARG:NH2	2.50	0.45
19:H3:153:ALA:HA	19:H3:159:LEU:HD23	1.98	0.45
19:H3:338:PRO:HA	19:H3:341:VAL:HG22	1.98	0.45
19:H5:139:PRO:O	19:H5:142:LYS:N	2.50	0.45
19:H5:191:LEU:HA	19:H5:194:ILE:HD12	1.99	0.45
19:H7:96:ASN:OD1	19:H7:97:ARG:N	2.49	0.45
19:I0:47:ARG:HA	19:I0:50:LEU:HD23	1.99	0.45
19:J0:318:GLY:HA2	19:J0:362:GLN:NE2	2.32	0.45
19:J1:128:ASP:OD1	19:J1:129:SER:N	2.48	0.45
19:J2:357:ALA:HA	19:J2:360:LEU:HD12	1.98	0.45
19:K2:222:ASP:OD1	19:K2:222:ASP:N	2.49	0.45
19:L3:156:ASN:OD1	19:L3:157:ALA:N	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:NB:319:TYR:HB2	24:NB:355:ILE:HG22	1.98	0.45
25:NK:278:SER:HA	25:NK:281:TYR:HD2	1.80	0.45
24:NL:288:VAL:HG13	24:NL:319:TYR:HE2	1.82	0.45
24:NN:284:GLU:HG2	24:ZN:88:HIS:HE2	1.82	0.45
25:NO:4:ILE:HB	25:NO:50:TYR:HE1	1.81	0.45
25:NO:31:ASP:OD1	25:NO:35:THR:N	2.50	0.45
26:O1:738:ASN:O	26:O1:842:TYR:CA	2.62	0.45
24:OH:407:TRP:HE1	25:OI:258:ILE:HG13	1.81	0.45
25:OK:193:VAL:HG21	25:OK:418:LEU:HD21	1.97	0.45
25:OM:421:GLU:HA	25:OM:424:GLN:HB3	1.98	0.45
25:OO:292:GLN:HG2	25:OO:298:ASN:ND2	2.32	0.45
25:OQ:207:LEU:HD21	25:OQ:229:ILE:HG13	1.99	0.45
25:PC:328:GLU:O	25:PC:332:ASN:N	2.44	0.45
24:PD:259:LEU:HD11	24:PD:316:CYS:HB2	1.97	0.45
24:PF:223:THR:OG1	24:PF:224:TYR:N	2.50	0.45
25:PO:341:PHE:HD1	25:PO:348:ASN:HD22	1.63	0.45
25:PQ:289:LEU:HD21	25:PQ:365:ALA:HB3	1.99	0.45
28:Q0:71:VAL:HG12	28:Q0:75:LYS:NZ	2.31	0.45
28:Q0:2138:ASP:HA	28:Q0:2142:VAL:HG22	1.98	0.45
28:Q1:2457:LEU:HB3	28:Q1:2480:ALA:HB2	1.99	0.45
24:QJ:394:LYS:HA	24:QJ:394:LYS:HD2	1.55	0.45
29:R0:195:LEU:O	29:R0:199:GLN:HG2	2.16	0.45
29:R0:2184:LEU:O	29:R0:2188:ALA:CB	2.64	0.45
25:RC:210:ILE:O	25:RC:214:THR:OG1	2.32	0.45
25:RI:391:ARG:NH2	24:RJ:439:SER:OG	2.50	0.45
25:RM:317:PHE:CD2	25:RM:326:VAL:HG13	2.51	0.45
25:RO:211:CYS:HB3	25:RO:220:PRO:HG2	1.98	0.45
30:S3:13:LYS:NZ	25:YC:359:LYS:O	2.41	0.45
25:SK:396:HIS:CG	24:SL:263:PRO:HD3	2.52	0.45
25:SO:286:VAL:HG23	25:SO:287:PRO:HD3	1.99	0.45
25:TC:271:THR:HA	25:TC:298:ASN:HD21	1.82	0.45
24:TF:70:LEU:HD21	24:TF:114:ILE:HG21	1.98	0.45
24:TH:207:GLU:HA	24:TH:210:TYR:HB2	1.99	0.45
25:TI:412:GLU:HA	25:TI:415:MET:HB3	1.97	0.45
25:TK:202:LEU:HD13	25:TK:229:ILE:HG13	1.99	0.45
25:TM:235:GLY:HA2	25:TM:318:ARG:HH11	1.82	0.45
24:TP:101:ASN:HA	24:TP:144:GLY:H	1.81	0.45
25:UI:7:ILE:HD13	25:UI:151:LEU:HD21	1.99	0.45
25:UK:113:ILE:HA	25:UK:116:VAL:HG22	1.98	0.45
25:UO:67:ASP:OD1	25:UO:68:LEU:N	2.50	0.45
24:UP:194:LEU:HG	24:UP:198:THR:HG21	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:VF:2:ARG:HG3	24:VF:242:LEU:HB3	1.98	0.45
24:VJ:175:PRO:O	24:VJ:394:LYS:NZ	2.43	0.45
24:VJ:305:CYS:HB3	24:VJ:387:ILE:HD11	1.99	0.45
24:WB:356:ASN:OD1	24:WB:357:TYR:N	2.48	0.45
24:WD:248:LEU:HB2	24:WD:354:GLY:HA2	1.97	0.45
25:WE:4:ILE:HB	25:WE:50:TYR:HE1	1.80	0.45
24:WL:109:THR:HG22	24:WL:110:ILE:HG23	1.97	0.45
25:XA:208:TYR:HE2	24:XB:329:ASN:HD22	1.65	0.45
25:XE:284:LEU:HD12	25:XE:363:MET:HB2	1.99	0.45
24:XJ:137:VAL:HG11	24:XJ:154:LEU:HD21	1.99	0.45
25:XK:284:LEU:HD23	25:XK:362:LYS:HB3	1.98	0.45
40:Y0:415:HIS:HB3	40:Y0:439:THR:HA	1.99	0.45
40:Y5:386:LEU:HB3	40:Y5:413:THR:HA	1.98	0.45
25:YK:39:ASP:OD1	25:YK:40:SER:N	2.50	0.45
24:YL:3:GLU:HG3	24:YL:129:CYS:HB2	1.99	0.45
24:YN:317:LEU:HB3	24:YN:319:TYR:HE1	1.82	0.45
41:Z0:64:PRO:HB3	41:Z0:267:ARG:HG2	1.98	0.45
41:Z2:114:LYS:NZ	41:Z2:531:TYR:OH	2.32	0.45
41:Z3:343:VAL:HA	41:Z3:371:PRO:HB3	1.97	0.45
25:ZC:274:THR:OG1	25:ZC:279:GLN:OE1	2.34	0.45
25:ZE:47:ILE:HG22	25:ZE:51:PHE:HB2	1.99	0.45
24:ZF:14:ILE:HD11	24:ZF:74:VAL:HG13	1.98	0.45
24:ZJ:100:ALA:HA	25:ZK:252:LYS:HZ2	1.82	0.45
2:1A:2058:ARG:HG3	18:C0:1585:ARG:NH2	2.31	0.45
2:1C:1607:VAL:HG21	2:1C:1692:LEU:HD22	1.98	0.45
2:1D:1609:VAL:HG13	2:1D:1686:GLY:H	1.80	0.45
11:5B:456:THR:HA	11:5B:483:ILE:HA	1.98	0.45
18:C0:898:ASP:O	18:C0:902:ARG:HG2	2.17	0.45
18:C1:232:ALA:HA	18:C1:235:LYS:HE3	1.98	0.45
18:C1:881:GLN:OE1	39:X1:144:ARG:NH1	2.36	0.45
18:C1:1334:ALA:HA	18:C1:1384:LEU:HD21	1.99	0.45
18:C2:1367:LEU:HD13	18:C2:1374:LEU:HG	1.98	0.45
18:C2:1751:LEU:HD11	18:C2:1775:LEU:HD21	1.97	0.45
18:C2:1789:PHE:HE1	18:C2:1807:VAL:HG22	1.82	0.45
19:D3:198:THR:HG23	19:D3:201:LEU:H	1.82	0.45
19:D3:406:SER:O	19:D3:421:VAL:N	2.50	0.45
19:D5:241:VAL:HG12	19:D5:281:HIS:HB3	1.98	0.45
20:E2:415:TYR:OH	24:VB:293:ASN:ND2	2.50	0.45
20:E3:394:ARG:HD3	24:UN:120:ASP:HA	1.97	0.45
19:G2:21:VAL:HA	19:G2:24:VAL:HG12	1.99	0.45
19:G2:338:PRO:HA	19:G2:341:VAL:HG12	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:H3:233:LEU:HA	19:H3:236:ILE:HG12	1.99	0.45
19:H5:50:LEU:O	19:H5:58:GLN:NE2	2.38	0.45
19:H5:139:PRO:HA	19:H5:142:LYS:HG2	1.97	0.45
19:I1:205:VAL:HG13	19:I1:210:ALA:HB3	1.97	0.45
19:J0:176:VAL:HG11	19:J0:214:LEU:HD22	1.99	0.45
19:J0:255:LYS:O	19:J0:258:THR:OG1	2.25	0.45
19:J1:188:ALA:HA	19:J1:191:LEU:HD12	1.99	0.45
19:J3:2:ALA:N	24:QP:423:GLU:OE1	2.49	0.45
19:L1:156:ASN:OD1	19:L1:157:ALA:N	2.49	0.45
19:L2:15:LYS:HE2	25:UC:402:GLY:N	2.32	0.45
19:L3:200:GLU:HA	19:L3:203:GLN:HG3	1.97	0.45
22:M1:796:GLU:OE2	28:Q1:1096:GLN:NE2	2.50	0.45
25:NG:173:PRO:HB3	25:NG:380:ARG:NH1	2.32	0.45
24:NJ:69:ASP:N	24:NJ:69:ASP:OD2	2.48	0.45
26:O1:381:ILE:O	26:O1:385:ILE:HG12	2.16	0.45
24:OD:9:ILE:HG22	24:OD:146:GLY:HA2	1.97	0.45
25:OG:179:VAL:HG13	24:OH:350:GLY:HA2	1.98	0.45
24:OH:89:PRO:HD3	24:PH:283:HIS:ND1	2.32	0.45
25:OI:31:ASP:OD1	25:OI:34:GLY:N	2.49	0.45
25:OI:309:ARG:NH1	25:OI:339:SER:O	2.49	0.45
25:OO:113:ILE:HA	25:OO:116:VAL:HG22	1.98	0.45
25:OQ:271:THR:HG21	25:OQ:293:MET:SD	2.56	0.45
25:PC:39:ASP:OD1	25:PC:39:ASP:N	2.49	0.45
25:PC:170:VAL:HG22	25:PC:203:ASP:HB3	1.98	0.45
25:PC:179:VAL:HG12	24:PD:350:GLY:HA2	1.98	0.45
25:PG:328:GLU:O	25:PG:332:ASN:N	2.46	0.45
24:PH:224:TYR:CD1	25:PI:323:THR:HG21	2.51	0.45
24:PN:50:ASN:O	24:PN:64:ARG:NH1	2.49	0.45
28:Q0:1857:GLY:HA3	28:Q0:1876:LEU:HD21	1.98	0.45
28:Q0:2074:LEU:HD22	28:Q0:2106:LEU:HD22	1.98	0.45
28:Q1:531:LEU:HD23	28:Q1:531:LEU:HA	1.78	0.45
28:Q1:2484:LEU:HD12	28:Q1:2507:LEU:HD13	1.99	0.45
28:Q1:2964:LEU:HD12	28:Q1:2991:LEU:HD22	1.98	0.45
28:Q1:3114:ARG:NH1	29:R1:76:ARG:HH22	2.14	0.45
25:QE:12:CYS:SG	25:QE:13:GLY:N	2.89	0.45
25:QI:271:THR:HA	25:QI:298:ASN:HD21	1.80	0.45
25:QM:232:VAL:O	25:QM:236:ILE:HG12	2.17	0.45
25:QM:272:PRO:HG3	25:QM:364:SER:HA	1.97	0.45
24:QN:130:THR:OG1	24:QN:131:GLY:N	2.50	0.45
25:QO:201:VAL:HG21	25:QO:374:ILE:HD11	1.98	0.45
24:RD:72:PRO:HB2	25:RE:46:ARG:HH22	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:RE:350:LYS:HA	25:RE:350:LYS:HD3	1.69	0.45
24:RF:305:CYS:HB3	24:RF:387:ILE:HD11	1.98	0.45
24:RH:259:LEU:HD11	24:RH:316:CYS:HB2	1.99	0.45
24:RH:311:LYS:N	24:RH:382:THR:OG1	2.43	0.45
24:RN:397:LEU:HD21	25:RO:344:TRP:HA	1.98	0.45
24:RP:130:THR:OG1	24:RP:131:GLY:N	2.50	0.45
24:SD:108:TYR:HA	24:SD:112:LYS:HE2	1.99	0.45
24:SF:5:ILE:HD13	24:SF:125:LEU:HB3	1.99	0.45
25:SI:174:LYS:HG3	25:SI:175:VAL:HG13	1.98	0.45
25:SO:3:GLU:HA	25:SO:49:VAL:HA	1.98	0.45
25:SO:176:SER:OG	25:SO:178:THR:O	2.35	0.45
24:TB:208:ALA:HB2	24:TB:304:LYS:HG2	1.99	0.45
25:TM:289:LEU:HD21	25:TM:365:ALA:HB3	1.98	0.45
24:UD:169:PHE:CE2	24:UD:235:ILE:HD12	2.51	0.45
24:UH:336:LYS:HE3	24:UH:336:LYS:HB2	1.79	0.45
25:UM:21:TRP:HE1	25:UM:63:ALA:HB2	1.80	0.45
24:UP:228:ASN:OD1	44:UP:501:GTP:N1	2.37	0.45
34:V1:188:PRO:O	34:V1:223:GLY:N	2.43	0.45
24:VB:14:ILE:O	24:VB:18:ASN:N	2.48	0.45
25:VC:31:ASP:OD1	25:VC:35:THR:N	2.49	0.45
25:VE:173:PRO:HD2	25:VE:205:GLU:HG3	1.99	0.45
25:VG:216:LYS:HB2	25:VG:275:SER:HB3	1.99	0.45
25:VG:382:SER:OG	25:VG:412:GLU:OE1	2.35	0.45
25:VK:406:MET:O	25:VK:409:THR:OG1	2.30	0.45
24:VL:73:THR:OG1	25:VM:247:ASN:ND2	2.49	0.45
24:WB:271:SER:HB2	24:WB:377:MET:HB3	1.99	0.45
25:WC:257:LEU:HD23	25:WC:312:THR:HG22	1.98	0.45
25:WE:203:ASP:OD1	25:WE:203:ASP:N	2.47	0.45
25:WI:99:ASN:OD1	24:WJ:352:LYS:NZ	2.46	0.45
24:WJ:363:VAL:HG23	24:WJ:366:GLY:HA3	1.99	0.45
25:WK:20:PHE:HA	25:WK:230:SER:HB2	1.98	0.45
24:WL:3:GLU:HA	24:WL:51:THR:HA	1.99	0.45
24:XD:33:ASP:HA	24:XD:85:GLN:HB2	1.98	0.45
25:XE:100:ASN:HB2	24:XF:257:THR:HG21	1.99	0.45
25:XE:164:MET:HB2	25:XE:197:ASP:H	1.81	0.45
25:XE:198:GLU:HA	25:XE:264:HIS:HB2	1.99	0.45
24:XH:9:ILE:HD13	24:XH:150:GLY:HA2	1.99	0.45
24:XJ:91:GLN:HE21	24:XJ:125:LEU:HD21	1.82	0.45
24:XN:170:THR:HG21	24:XN:194:LEU:HD21	1.98	0.45
25:XO:113:ILE:HA	25:XO:116:VAL:HG22	1.99	0.45
40:Y2:81:SER:OG	40:Y2:94:ARG:NH2	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:YB:203:MET:HG3	24:YB:303:VAL:HG11	1.98	0.45
24:YD:192:HIS:HD2	24:YD:421:ALA:HA	1.82	0.45
24:YD:262:TYR:HD2	24:YD:265:ILE:HD12	1.81	0.45
41:Z2:154:PHE:HB3	41:Z2:158:GLN:HB2	1.98	0.45
24:ZB:50:ASN:O	24:ZB:64:ARG:NH1	2.50	0.45
24:ZD:73:THR:O	24:ZD:77:GLU:HG2	2.16	0.45
24:ZD:292:THR:OG1	24:ZD:319:TYR:OH	2.31	0.45
2:1C:1522:ASP:OD1	2:1C:1523:PRO:HD3	2.16	0.45
2:1C:2045:TYR:HB2	2:1C:2111:THR:OG1	2.17	0.45
2:1C:2114:CYS:HB3	2:1C:2118:LEU:HD11	1.99	0.45
2:1D:2495:LYS:NZ	18:C3:1167:GLU:OE1	2.38	0.45
6:2I:681:PHE:HA	6:2I:686:LEU:HA	1.99	0.45
16:A3:31:ARG:HH22	25:XE:262:ARG:HE	1.65	0.45
16:A3:67:LEU:HD13	32:T2:604:PRO:HA	1.99	0.45
17:B1:557:ARG:HA	17:B1:560:GLU:HG2	1.99	0.45
18:C2:714:VAL:O	18:C2:718:LYS:HG2	2.16	0.45
19:D0:88:LEU:HD11	19:D0:106:CYS:HB3	1.99	0.45
19:D3:145:SER:O	19:D3:148:THR:OG1	2.25	0.45
19:D5:214:LEU:HD12	19:D5:217:LEU:HD12	1.99	0.45
19:D7:23:ALA:O	19:D7:27:MET:HG3	2.17	0.45
20:E0:150:PRO:O	20:E0:152:GLY:N	2.49	0.45
20:E1:124:ALA:HA	20:E1:132:LEU:HD23	1.99	0.45
20:E1:423:PRO:HB3	25:VE:216:LYS:HD2	1.98	0.45
20:E3:85:LEU:HD11	20:E3:119:TRP:CD1	2.52	0.45
19:G1:47:ARG:HG2	19:G1:84:ILE:HG12	1.97	0.45
19:G1:86:PRO:HA	19:G1:89:VAL:HG12	1.99	0.45
19:G1:180:GLU:HB3	19:G1:183:LEU:HD13	1.99	0.45
19:G1:270:HIS:O	19:G1:274:VAL:HG23	2.16	0.45
19:G1:325:GLU:OE2	19:G1:370:HIS:ND1	2.50	0.45
19:G3:401:ARG:O	19:G3:405:LYS:HG3	2.16	0.45
19:G4:248:VAL:HG11	19:G4:285:LEU:HD22	1.99	0.45
19:H3:290:VAL:HG11	19:H3:327:LEU:HG	1.99	0.45
19:H4:324:SER:HB3	19:H4:327:LEU:HD23	1.98	0.45
19:H6:134:LEU:HB2	19:H6:171:LEU:HD13	1.99	0.45
19:I0:52:ASP:OD1	19:I0:53:ASN:N	2.50	0.45
19:I1:28:ALA:HA	19:I1:34:ILE:HD11	1.98	0.45
19:J1:31:PRO:HB3	19:J1:71:TYR:CZ	2.52	0.45
19:J2:253:PHE:HA	19:J2:256:ILE:HG22	1.99	0.45
19:K1:248:VAL:HG21	19:K1:285:LEU:HD22	1.99	0.45
19:K2:43:MET:O	19:K2:47:ARG:HG2	2.17	0.45
22:M1:342:MET:SD	25:TI:262:ARG:NH1	2.88	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:N2:121:ALA:O	23:N2:125:MET:HG2	2.16	0.45
24:NB:7:ILE:HD11	24:NB:137:VAL:HG22	1.99	0.45
26:O0:337:ARG:HH12	26:O0:341:ARG:NH1	2.15	0.45
26:O0:1120:ARG:HA	26:O0:1427:ALA:HB3	1.97	0.45
25:OC:322:SER:OG	25:OC:325:GLU:OE2	2.34	0.45
24:OH:102:ASN:HB3	24:OH:105:ARG:HB2	1.99	0.45
24:OH:194:LEU:O	24:OH:198:THR:OG1	2.24	0.45
24:OH:384:ILE:HA	24:OH:387:ILE:HD13	1.98	0.45
25:OI:31:ASP:OD1	25:OI:35:THR:N	2.50	0.45
25:PC:22:GLU:HA	25:PC:81:TYR:HD2	1.81	0.45
25:PK:21:TRP:HA	25:PK:24:VAL:HG12	1.98	0.45
24:PL:88:HIS:HD2	24:QL:283:HIS:HB2	1.80	0.45
24:PL:264:ARG:NH1	24:PL:431:ASP:OD1	2.50	0.45
28:Q0:780:GLU:HB3	28:Q0:845:LEU:HD21	1.99	0.45
28:Q1:220:THR:O	28:Q1:224:THR:HG23	2.17	0.45
28:Q1:1846:ARG:HD2	28:Q1:1924:LEU:HD21	1.99	0.45
28:Q1:2219:THR:O	28:Q1:2223:MET:HG3	2.17	0.45
24:QF:422:ARG:HH12	24:QF:426:ALA:HB2	1.82	0.45
25:QI:166:THR:HG21	25:QI:192:LEU:HD11	1.99	0.45
25:QK:272:PRO:HG3	25:QK:364:SER:HA	1.97	0.45
24:QL:90:GLU:HG2	24:QL:121:ARG:HD3	1.98	0.45
24:QL:198:THR:OG1	24:QL:266:HIS:CE1	2.69	0.45
25:QM:3:GLU:HG2	25:QM:127:CYS:HB2	1.98	0.45
25:RC:379:LYS:O	25:RC:383:GLU:N	2.49	0.45
24:RD:76:ASP:OD2	25:RE:46:ARG:NH2	2.49	0.45
25:RG:236:ILE:HD12	25:RG:368:ILE:HD11	1.97	0.45
25:RG:252:LYS:HB3	25:RG:252:LYS:HE2	1.76	0.45
24:RL:228:ASN:HA	24:RL:231:ILE:HB	1.98	0.45
24:RN:217:LEU:HG	24:RN:275:ILE:HG22	1.98	0.45
24:RP:417:GLU:HA	24:RP:420:GLU:HB3	1.99	0.45
24:SB:221:ARG:NE	25:SC:322:SER:OG	2.49	0.45
24:SB:418:PHE:O	24:SB:422:ARG:N	2.50	0.45
25:SK:192:LEU:HD22	25:SK:196:ALA:HB2	1.99	0.45
25:TE:304:ASP:HB3	25:TE:307:HIS:CD2	2.52	0.45
25:TM:63:ALA:O	25:TM:89:ASN:ND2	2.49	0.45
25:TM:117:LEU:HA	25:TM:120:VAL:HG12	1.97	0.45
24:TN:7:ILE:N	24:TN:136:LEU:O	2.46	0.45
25:TO:374:ILE:HD11	25:TO:422:TYR:CZ	2.52	0.45
24:UL:9:ILE:HG12	24:UL:68:LEU:HD21	1.98	0.45
25:UO:205:GLU:HA	25:UO:208:TYR:HB2	1.98	0.45
25:VK:407:GLU:HA	25:VK:410:GLU:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:VP:224:TYR:HA	24:VP:227:LEU:HB2	1.98	0.45
24:WB:102:ASN:HB3	24:WB:105:ARG:HB2	1.98	0.45
24:WB:132:LEU:HB3	24:WB:164:LYS:HZ1	1.82	0.45
24:WF:328:VAL:HG11	24:WF:355:ILE:HD11	1.99	0.45
25:WK:70:PRO:HG2	24:WL:2:ARG:HD3	1.97	0.45
25:WM:318:ARG:HH11	25:WM:358:PRO:HD3	1.82	0.45
25:WO:60:VAL:HG11	25:XO:281:TYR:HB3	1.99	0.45
25:WO:309:ARG:NH1	25:WO:426:GLN:O	2.49	0.45
39:X0:593:HIS:CE1	39:X0:595:ALA:HB3	2.52	0.45
39:X1:385:ASP:HA	39:X1:492:ARG:HG2	1.98	0.45
25:XG:324:LYS:O	25:XG:328:GLU:N	2.35	0.45
25:XK:222:PHE:HD1	25:XK:225:LEU:HD12	1.81	0.45
25:XM:105:HIS:CE1	25:XM:150:LEU:HD12	2.51	0.45
25:XM:334:GLN:HE22	25:XM:347:ASN:HA	1.82	0.45
25:XO:272:PRO:HG3	25:XO:364:SER:HA	1.97	0.45
40:Y4:208:GLN:OE1	40:Y4:209:GLU:HG2	2.17	0.45
24:YF:209:ILE:HG23	24:YF:230:LEU:HD11	1.99	0.45
25:YG:198:GLU:HB2	25:YG:266:PHE:HE2	1.81	0.45
24:YH:79:ARG:HH22	24:YH:94:SER:HB2	1.82	0.45
24:YN:137:VAL:HG11	24:YN:154:LEU:HD21	1.99	0.45
41:Z0:538:LEU:HA	41:Z0:541:LYS:HG2	1.98	0.45
24:ZB:167:LEU:HG	24:ZB:252:ILE:HD11	1.99	0.45
24:ZJ:222:PRO:HG2	25:ZK:324:LYS:HZ1	1.80	0.45
24:ZL:130:THR:OG1	24:ZL:131:GLY:N	2.50	0.45
24:ZL:210:TYR:CZ	24:ZL:227:LEU:HD11	2.51	0.45
25:ZM:311:LEU:HD12	25:ZM:342:VAL:HG11	1.98	0.45
24:ZN:93:ILE:HD11	24:ZN:121:ARG:HG3	1.99	0.45
2:1C:2463:SER:HB2	2:1C:2467:ARG:NH1	2.31	0.45
2:1D:1810:VAL:HG22	2:1D:1814:LEU:HD23	1.99	0.45
11:5D:456:THR:HA	11:5D:483:ILE:HA	1.97	0.45
14:8D:70:LEU:HB3	25:WC:74:ASP:OD2	2.17	0.45
17:B1:382:TRP:CZ3	24:SN:342:GLN:HA	2.52	0.45
17:B1:407:ALA:HA	17:B1:410:GLU:HG3	1.99	0.45
19:D0:240:SER:HB2	19:D0:243:LEU:HD13	1.98	0.45
19:D0:266:PHE:HD2	19:D0:269:LYS:HD3	1.82	0.45
19:D3:396:LEU:HA	19:D3:399:LYS:HE2	1.98	0.45
19:D5:308:ASN:O	19:D5:308:ASN:ND2	2.40	0.45
19:D6:18:VAL:HA	19:D6:21:VAL:HG12	1.99	0.45
20:E1:85:LEU:HD11	20:E1:119:TRP:CD1	2.52	0.45
21:F3:117:VAL:HG23	21:F3:119:ARG:HD3	1.98	0.45
19:G5:179:PRO:HA	19:G5:184:LYS:HE2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:H1:301:TYR:O	19:H1:305:SER:HB2	2.16	0.45
19:H6:47:ARG:HB2	19:H6:48:PRO:HD3	1.99	0.45
19:J1:185:ARG:NH1	19:J1:224:LYS:HB2	2.31	0.45
19:J2:312:PRO:HA	19:J2:315:MET:HE2	1.99	0.45
19:K3:185:ARG:NE	19:K3:225:LEU:HB2	2.32	0.45
23:N1:104:VAL:O	23:N1:107:SER:OG	2.29	0.45
24:NB:222:PRO:O	25:NC:322:SER:OG	2.27	0.45
24:NB:316:CYS:N	24:NB:378:ILE:O	2.46	0.45
25:NC:63:ALA:O	25:NC:89:ASN:ND2	2.49	0.45
24:NH:270:SER:HB3	24:NH:302:MET:HB2	1.99	0.45
25:NI:344:TRP:CD1	25:NI:345:ILE:HG13	2.52	0.45
24:NL:317:LEU:HB2	24:NL:353:CYS:HA	1.99	0.45
26:O1:140:MET:HA	26:O1:143:GLU:HG2	1.98	0.45
26:O1:377:GLN:O	26:O1:381:ILE:HG12	2.17	0.45
24:OD:280:LYS:HD2	24:OD:280:LYS:HA	1.70	0.45
25:OE:19:LYS:HA	25:OE:22:GLU:HG2	1.99	0.45
25:OO:205:GLU:HA	25:OO:208:TYR:HD2	1.81	0.45
24:OP:209:ILE:HG23	24:OP:230:LEU:HD11	1.99	0.45
25:OQ:8:GLN:HB2	25:OQ:65:LEU:HD23	1.99	0.45
24:PD:210:TYR:HB3	25:PE:324:LYS:NZ	2.32	0.45
24:PD:316:CYS:HA	24:PD:352:LYS:HB3	1.98	0.45
25:PE:167:PHE:HA	25:PE:200:MET:HB2	1.99	0.45
25:PG:121:ARG:O	25:PG:125:GLU:HG2	2.17	0.45
25:PI:113:ILE:HA	25:PI:116:VAL:HG12	1.99	0.45
24:PL:223:THR:HB	25:PM:322:SER:HA	1.99	0.45
24:PL:319:TYR:HB3	24:PL:323:VAL:HG21	1.99	0.45
28:Q0:835:PRO:O	28:Q0:837:ASN:N	2.50	0.45
28:Q0:1736:ASN:H	28:Q0:1739:ARG:HD3	1.81	0.45
28:Q0:2040:LEU:HD23	28:Q0:2040:LEU:HA	1.82	0.45
28:Q0:2672:ALA:HB3	28:Q0:2712:LEU:HD21	1.98	0.45
28:Q1:944:PRO:HG3	28:Q1:1007:VAL:HG11	1.98	0.45
25:QC:173:PRO:HB3	25:QC:380:ARG:HD3	1.98	0.45
24:QJ:52:PHE:HZ	24:QJ:239:THR:HG21	1.82	0.45
25:QK:20:PHE:HA	25:QK:230:SER:HB2	1.98	0.45
25:QO:319:GLY:N	25:QO:354:CYS:O	2.44	0.45
25:QO:324:LYS:O	25:QO:328:GLU:N	2.48	0.45
24:RH:3:GLU:HA	24:RH:51:THR:HA	1.99	0.45
24:RL:276:ILE:HD12	24:RL:281:ALA:HA	1.99	0.45
24:RN:109:THR:OG1	24:RN:110:ILE:N	2.49	0.45
24:RP:425:LEU:O	24:RP:429:GLU:N	2.41	0.45
30:S0:143:ARG:NH1	24:UN:47:ASP:OD1	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:SC:20:PHE:HA	25:SC:230:SER:HB2	1.99	0.45
25:SE:99:ASN:HD21	25:SE:178:THR:HG21	1.81	0.45
25:SG:253:LEU:HD21	25:SG:316:LEU:HD21	1.98	0.45
25:SK:237:THR:HG22	25:SK:250:LEU:HD21	1.99	0.45
25:SK:286:VAL:HB	25:SK:325:GLU:HB3	1.99	0.45
24:TL:105:ARG:HA	24:TL:109:THR:HB	1.98	0.45
24:UD:7:ILE:HG22	24:UD:66:ILE:HB	1.98	0.45
25:UE:103:LYS:HA	25:UE:107:THR:HG22	1.98	0.45
24:UJ:21:TRP:CZ2	24:UJ:65:CYS:HB2	2.52	0.45
25:UM:314:SER:HA	25:UM:350:LYS:HB3	1.97	0.45
25:VC:184:ASN:OD1	25:VC:398:TYR:OH	2.34	0.45
24:VD:100:ALA:N	44:VD:501:GTP:O2G	2.49	0.45
25:VE:36:TYR:HB2	25:VE:59:TYR:HE2	1.82	0.45
24:VF:193:SER:O	24:VF:197:HIS:ND1	2.37	0.45
25:VI:64:ILE:HD11	25:VI:123:GLU:HG3	1.98	0.45
24:VJ:237:SER:HA	24:VJ:320:ARG:HH11	1.80	0.45
24:WJ:273:ALA:HB3	24:WJ:375:VAL:H	1.81	0.45
25:WK:391:ARG:O	24:WL:262:TYR:OH	2.34	0.45
39:X3:276:ALA:HB3	39:X3:279:LEU:HD22	1.99	0.45
25:XC:12:CYS:SG	25:XC:13:GLY:N	2.90	0.45
25:XI:198:GLU:HB3	25:XI:258:ILE:HD11	1.98	0.45
24:XN:317:LEU:HB3	24:XN:319:TYR:HE1	1.82	0.45
40:Y0:128:LYS:HB3	40:Y0:131:GLU:HB3	1.99	0.45
40:Y3:416:ARG:HD2	40:Y3:416:ARG:HA	1.76	0.45
40:Y3:449:ALA:HA	40:Y3:452:ASN:HD21	1.82	0.45
24:YB:9:ILE:HD13	24:YB:150:GLY:HA2	1.99	0.45
24:YF:9:ILE:HD13	24:YF:150:GLY:HA2	1.98	0.45
24:YF:328:VAL:HG11	24:YF:355:ILE:HD11	1.98	0.45
24:YH:180:ALA:HB3	24:YH:183:GLU:HG3	1.99	0.45
24:YJ:11:GLN:HE22	24:YJ:15:GLN:NE2	2.14	0.45
24:YL:210:TYR:CG	25:YM:324:LYS:HD2	2.51	0.45
24:YP:251:ASP:HB3	24:YP:254:GLU:OE2	2.17	0.45
41:Z3:457:LYS:NZ	41:Z3:458:ASP:OD1	2.46	0.45
24:ZB:97:GLU:OE2	24:ZB:105:ARG:NH1	2.50	0.45
25:ZC:213:ARG:NH2	25:ZC:297:LYS:HG3	2.31	0.45
24:ZF:304:LYS:HE2	24:ZF:304:LYS:HB3	1.74	0.45
25:ZG:263:LEU:HG	25:ZG:422:TYR:HE1	1.81	0.45
24:ZJ:242:LEU:HD11	24:ZJ:252:ILE:HB	1.99	0.45
2:1A:1242:MET:HB2	2:1A:1345:VAL:HG23	1.99	0.45
2:1B:2100:ARG:HH12	18:C1:1597:ARG:HG2	1.82	0.45
2:1C:1607:VAL:HA	2:1C:1608:PRO:HD3	1.86	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1D:1522:ASP:OD1	2:1D:1523:PRO:HD3	2.17	0.45
2:1D:2056:ALA:HB1	2:1D:2096:ASP:HB3	1.99	0.45
12:6A:200:ASP:O	12:6A:204:ALA:HB2	2.16	0.45
14:8C:128:LYS:HD3	24:UH:2:ARG:NH1	2.32	0.45
17:B1:668:GLU:HG3	33:U0:151:HIS:NE2	2.32	0.45
18:C1:687:LYS:HG3	18:C1:715:LEU:HD13	1.98	0.45
18:C1:1908:GLU:HA	18:C1:1911:VAL:HB	1.99	0.45
18:C2:95:TYR:OH	21:F1:67:LEU:O	2.28	0.45
18:C3:1607:ALA:HA	18:C3:1926:ALA:HB1	1.98	0.45
19:D0:137:PHE:O	19:D0:142:LYS:NZ	2.45	0.45
19:D0:207:ASP:OD1	19:D0:208:ALA:N	2.50	0.45
19:D0:317:LEU:HD22	19:D0:340:LEU:HD21	1.98	0.45
19:D4:121:VAL:O	19:D4:124:SER:OG	2.34	0.45
21:F1:317:ASN:O	21:F1:421:ARG:CA	2.65	0.45
21:F2:113:ASN:OD1	21:F2:114:ASN:N	2.49	0.45
21:F3:216:PHE:HA	21:F3:251:GLN:HA	1.98	0.45
19:G0:52:ASP:OD1	19:G0:53:ASN:N	2.49	0.45
19:G0:156:ASN:OD1	19:G0:157:ALA:N	2.50	0.45
19:H3:21:VAL:HG11	19:H3:57:ILE:HB	1.99	0.45
19:K0:4:ARG:HH21	19:K0:7:LEU:HD12	1.82	0.45
19:K0:111:ALA:HB2	19:K0:121:VAL:HG21	1.98	0.45
19:K0:265:GLU:HG2	19:K0:266:PHE:HD1	1.81	0.45
19:K2:185:ARG:NE	19:K2:225:LEU:HA	2.31	0.45
19:L2:318:GLY:HA3	19:L2:359:THR:HG22	1.99	0.45
24:NH:404:PHE:HZ	25:NI:312:THR:HG21	1.82	0.45
24:NJ:231:ILE:O	24:NJ:235:ILE:HG12	2.16	0.45
25:NM:68:LEU:HD23	25:NM:96:GLY:H	1.81	0.45
24:NN:77:GLU:HA	24:NN:80:THR:HG22	1.97	0.45
24:NN:189:LEU:HD11	24:NN:418:PHE:HE1	1.82	0.45
25:NO:68:LEU:HD13	25:NO:143:THR:HG23	1.99	0.45
26:O0:339:LEU:HD22	26:O0:343:ARG:HH22	1.82	0.45
24:OH:319:TYR:HE1	24:OH:375:VAL:HG22	1.82	0.45
25:OO:314:SER:HB3	25:OO:368:ILE:HB	1.98	0.45
25:PG:97:ALA:HB3	25:PG:143:THR:HA	1.99	0.45
24:PJ:259:LEU:HD21	24:PJ:316:CYS:HB2	1.99	0.45
24:PN:209:ILE:HD13	24:PN:231:ILE:HD11	1.98	0.45
28:Q0:773:LEU:HD23	28:Q0:773:LEU:HA	1.71	0.45
28:Q0:2036:TRP:CZ3	28:Q0:2083:LYS:HB3	2.52	0.45
28:Q0:2457:LEU:HB3	28:Q0:2480:ALA:HB2	1.98	0.45
25:QE:52:ASN:OD1	25:QE:62:ARG:NH1	2.50	0.45
24:QF:311:LYS:HA	24:QF:311:LYS:HD2	1.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:QH:304:LYS:HD2	24:QH:304:LYS:HA	1.78	0.45
24:QJ:112:LYS:HD3	24:QJ:152:LEU:HD11	1.98	0.45
25:QM:6:HIS:O	25:QM:63:ALA:HA	2.17	0.45
25:QM:216:LYS:HD3	25:QM:216:LYS:HA	1.76	0.45
24:QP:67:PHE:HB2	24:QP:92:LEU:HD22	1.99	0.45
24:QP:327:ASP:HA	24:QP:330:ALA:HB3	1.99	0.45
29:R0:120:LEU:HD11	29:R0:166:HIS:HB3	1.98	0.45
25:RE:17:GLY:HA2	25:RE:20:PHE:HB3	1.98	0.45
25:RE:263:LEU:HG	25:RE:422:TYR:HE1	1.81	0.45
25:RI:105:HIS:CE1	25:RI:150:LEU:HB2	2.51	0.45
30:S2:46:ARG:NH1	25:XE:78:SER:OG	2.50	0.45
24:SB:221:ARG:HH22	25:SC:324:LYS:HG2	1.81	0.45
24:SB:222:PRO:HD2	25:SC:324:LYS:NZ	2.32	0.45
25:SC:125:GLU:OE1	25:SC:159:TYR:OH	2.35	0.45
24:SL:240:ALA:HA	24:SL:243:ARG:HE	1.81	0.45
25:SO:272:PRO:HG3	25:SO:364:SER:HA	1.97	0.45
24:TH:127:ASP:OD2	24:UH:293:ASN:ND2	2.50	0.45
25:TI:303:ALA:HB2	25:TI:377:MET:HB2	1.99	0.45
24:TL:221:ARG:HG3	25:TM:322:SER:HB2	1.99	0.45
24:UB:97:GLU:HG3	25:UC:2:ARG:HE	1.82	0.45
24:UB:209:ILE:HG23	24:UB:230:LEU:HD11	1.98	0.45
24:UF:225:THR:HG22	36:W5:32:UNK:HA	1.98	0.45
24:UH:276:ILE:HD12	24:UH:281:ALA:HA	1.99	0.45
24:UN:328:VAL:HG11	24:UN:355:ILE:HD11	1.98	0.45
25:VC:138:SER:O	25:VC:145:SER:OG	2.26	0.45
24:VD:274:PRO:HD2	24:VD:374:ALA:HA	1.98	0.45
25:VE:67:ASP:N	25:VE:67:ASP:OD1	2.49	0.45
25:VK:204:ASN:HA	25:VK:207:LEU:HD12	1.99	0.45
24:WF:206:ASN:HD22	24:WF:227:LEU:HD11	1.81	0.45
25:WG:163:MET:HG2	25:WG:251:ARG:HE	1.82	0.45
24:WL:71:GLU:OE2	25:WM:2:ARG:NH2	2.50	0.45
24:WL:273:ALA:HB2	24:WL:295:ALA:HB2	1.99	0.45
25:WM:292:GLN:O	25:WM:298:ASN:ND2	2.35	0.45
24:XL:241:SER:HA	24:XL:356:ASN:HD22	1.81	0.45
25:XM:17:GLY:HA2	25:XM:20:PHE:HB3	1.99	0.45
40:Y3:311:GLY:HA2	40:Y3:314:LYS:HE3	1.97	0.45
40:Y4:358:GLN:NE2	40:Y4:383:ALA:HB3	2.32	0.45
40:Y7:239:LYS:HZ3	40:Y7:244:GLN:HA	1.82	0.45
25:YI:289:LEU:O	25:YI:293:MET:HB2	2.16	0.45
25:YM:179:VAL:HG13	25:YM:180:VAL:HG13	1.98	0.45
41:Z0:562:ASP:OD1	41:Z0:562:ASP:N	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:Z1:17:SER:N	41:Z1:39:THR:O	2.50	0.45
41:Z3:551:TYR:CZ	41:Z3:605:LEU:HD13	2.51	0.45
25:ZE:113:ILE:HG13	25:ZE:150:LEU:HD23	1.99	0.45
24:ZF:120:ASP:OD1	24:ZF:123:ARG:NH2	2.47	0.45
24:ZJ:209:ILE:HA	24:ZJ:212:ILE:HG22	1.99	0.45
25:ZO:153:SER:HB3	25:ZO:191:GLN:HE21	1.81	0.45
2:1A:2442:THR:HB	18:C0:1213:GLU:HG2	1.99	0.45
2:1C:1254:GLN:HA	2:1C:1257:MET:HG2	1.99	0.45
4:2B:197:PRO:HA	4:2B:200:VAL:HB	1.99	0.45
17:B0:605:SER:O	17:B0:609:ILE:HG12	2.17	0.45
17:B0:667:GLU:HA	17:B0:670:LYS:HE2	1.98	0.45
18:C0:1288:PHE:CE2	18:C0:1462:CYS:HB3	2.52	0.45
18:C2:91:PRO:HB2	21:F1:82:ILE:HD12	1.99	0.45
18:C3:636:GLN:HA	18:C3:639:GLU:HG3	1.99	0.45
18:C3:777:ALA:HB1	18:C3:900:TRP:CD1	2.51	0.45
18:C3:1836:VAL:HA	18:C3:1839:VAL:HG12	1.99	0.45
19:D0:395:ASP:OD1	19:D0:396:LEU:N	2.49	0.45
19:D5:364:GLY:O	19:D5:370:HIS:NE2	2.40	0.45
19:D6:329:LEU:HA	19:D6:332:ILE:HG22	1.99	0.45
19:D7:128:ASP:O	19:D7:132:THR:HG23	2.17	0.45
19:G2:253:PHE:HA	19:G2:256:ILE:HD12	1.99	0.45
19:H1:358:TRP:HA	19:H1:400:CYS:SG	2.57	0.45
19:H6:359:THR:O	19:H6:363:ILE:HG12	2.17	0.45
19:H7:346:GLU:HG3	19:H7:348:PRO:HD3	2.00	0.45
19:J0:285:LEU:HD23	19:J0:288:LEU:HD12	1.99	0.45
19:J1:157:ALA:HA	19:J1:197:HIS:CE1	2.52	0.45
19:J1:358:TRP:HB2	19:J1:396:LEU:HD21	1.98	0.45
19:J2:147:TRP:HB2	19:J2:186:ILE:HD12	1.99	0.45
19:J2:268:LYS:HB3	19:J2:301:TYR:CE1	2.52	0.45
19:J3:13:TYR:OH	19:J3:17:ARG:NH2	2.50	0.45
19:K1:301:TYR:O	19:K1:305:SER:HB3	2.17	0.45
19:K3:122:ILE:HD13	19:K3:159:LEU:HG	1.98	0.45
19:K3:241:VAL:HG12	19:K3:281:HIS:HB3	1.99	0.45
19:L1:149:LEU:HA	19:L1:152:ILE:HG12	1.99	0.45
22:M0:717:VAL:HG13	22:M0:722:GLU:HB3	1.99	0.45
22:M1:787:TYR:HB3	28:Q1:1229:LEU:HD22	1.98	0.45
23:N3:56:LEU:HD23	23:N3:59:LYS:HD2	1.98	0.45
24:ND:406:HIS:HA	24:ND:409:VAL:HG12	1.98	0.45
24:NL:233:GLN:NE2	24:NL:361:THR:O	2.50	0.45
25:NO:114:ASP:OD1	25:NO:115:SER:N	2.50	0.45
25:OI:33:THR:O	25:OI:58:ARG:NH1	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:OJ:238:LEU:HD13	24:OJ:378:ILE:HD12	1.99	0.45
24:OL:16:VAL:O	24:OL:20:CYS:N	2.45	0.45
25:OO:4:ILE:HB	25:OO:50:TYR:HE1	1.81	0.45
24:PD:9:ILE:HG13	24:PD:68:LEU:HD21	1.98	0.45
24:PH:130:THR:OG1	24:PH:131:GLY:N	2.50	0.45
24:PJ:269:LEU:HD13	24:PJ:301:MET:HE2	1.99	0.45
24:PP:177:VAL:HG22	25:PQ:331:LEU:HD22	1.98	0.45
24:PP:407:TRP:HE1	25:PQ:258:ILE:HG13	1.82	0.45
28:Q1:2725:ASP:OD1	28:Q1:2725:ASP:N	2.50	0.45
25:QK:190:HIS:HD2	25:QK:411:ALA:HA	1.81	0.45
25:QK:205:GLU:HA	25:QK:208:TYR:HB2	1.99	0.45
25:QK:209:ASP:HB3	25:QK:213:ARG:NH1	2.32	0.45
24:QN:313:MET:HB3	24:QN:380:ASN:HB3	1.98	0.45
25:QO:192:LEU:HD22	25:QO:196:ALA:HB2	1.99	0.45
24:QP:90:GLU:N	24:QP:90:GLU:OE1	2.49	0.45
25:QQ:25:SER:HB2	25:QQ:30:ILE:HB	1.99	0.45
25:RI:165:LEU:HD12	25:RI:167:PHE:HE2	1.82	0.45
24:RJ:100:ALA:N	44:RJ:501:GTP:O2G	2.49	0.45
25:RK:109:GLY:O	25:RK:113:ILE:HG12	2.17	0.45
30:S3:86:ASN:N	25:WA:276:ARG:HH22	2.15	0.45
24:SH:251:ASP:HB2	24:SH:254:GLU:HG3	1.99	0.45
32:T0:143:LYS:N	32:T0:189:ALA:O	2.49	0.45
24:TB:194:LEU:O	24:TB:198:THR:OG1	2.29	0.45
25:TC:325:GLU:HA	25:TC:328:GLU:HG3	1.99	0.45
25:TG:272:PRO:HG3	25:TG:364:SER:HA	1.99	0.45
24:TJ:26:LEU:HD12	24:TJ:363:VAL:HG12	1.99	0.45
25:VC:67:ASP:OD2	25:VC:72:THR:OG1	2.25	0.45
25:VG:235:GLY:HA3	25:VG:366:THR:HG21	1.98	0.45
24:VH:72:PRO:HD2	25:VI:2:ARG:HH12	1.82	0.45
24:VH:259:LEU:HD12	24:VH:268:MET:HG2	1.98	0.45
24:VH:336:LYS:O	24:VH:339:ARG:NH2	2.45	0.45
24:VP:207:GLU:HA	24:VP:210:TYR:HB2	1.98	0.45
25:WE:7:ILE:HG12	25:WE:64:ILE:HD13	1.99	0.45
25:WE:128:ASP:OD1	25:WE:129:CYS:N	2.47	0.45
25:WE:215:LEU:HD11	25:WE:228:LEU:HD11	1.99	0.45
25:WG:107:THR:OG1	25:WG:108:GLU:OE1	2.34	0.45
25:WG:375:GLN:NE2	25:WG:423:GLN:OE1	2.47	0.45
25:WK:384:GLN:HE22	24:WL:348:PRO:HB2	1.82	0.45
24:WN:3:GLU:HA	24:WN:51:THR:HA	1.98	0.45
25:WO:358:PRO:HG2	25:WO:361:LEU:HB2	1.98	0.45
39:X2:270:LEU:HD11	39:X2:282:LEU:HD21	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:XA:77:ARG:HH22	25:XA:87:PRO:HB3	1.81	0.45
24:XB:9:ILE:HG13	24:XB:68:LEU:HD21	1.98	0.45
24:XD:419:SER:OG	24:XD:420:GLU:OE1	2.35	0.45
24:XH:173:PRO:O	24:XH:390:ARG:NH2	2.40	0.45
40:Y1:52:GLY:HA3	40:Y1:113:ILE:HG21	1.99	0.45
24:YH:147:SER:HB2	24:YH:190:SER:HB3	1.99	0.45
24:YH:207:GLU:HA	24:YH:210:TYR:HB2	1.99	0.45
25:YM:222:PHE:HB2	24:YN:325:PRO:HG2	1.99	0.45
25:YO:3:GLU:HG2	25:YO:130:LEU:HA	1.97	0.45
25:YO:189:VAL:O	25:YO:193:VAL:HG13	2.17	0.45
41:Z2:438:SER:OG	41:Z2:441:GLN:OE1	2.26	0.45
25:ZG:183:TYR:HE1	25:ZG:394:PHE:HB2	1.82	0.45
24:ZH:105:ARG:HA	24:ZH:109:THR:HG22	1.98	0.45
25:ZI:22:GLU:HG2	25:ZI:81:TYR:HB2	1.99	0.45
24:ZP:273:ALA:HB2	24:ZP:295:ALA:HB2	1.99	0.45
2:1B:1365:ASP:HB2	2:1B:1403:LEU:HD23	1.98	0.44
2:1C:1268:ASN:HA	2:1C:1323:ASP:HB2	1.99	0.44
2:1C:1279:LYS:HZ3	2:1C:1280:LYS:HD3	1.81	0.44
2:1C:1899:ASP:OD1	2:1C:1899:ASP:N	2.44	0.44
2:1C:2168:ALA:HB2	2:1C:2287:LEU:HA	1.99	0.44
2:1D:1717:LEU:O	2:1D:1721:MET:HB3	2.17	0.44
15:9A:797:SER:CB	15:9A:814:TYR:O	2.65	0.44
16:A0:129:SER:HA	25:YO:297:LYS:NZ	2.32	0.44
16:A1:55:ALA:O	16:A1:59:THR:HG23	2.17	0.44
16:A2:31:ARG:NH1	25:XI:417:ASP:OD2	2.50	0.44
16:A3:124:ALA:HB2	24:YD:330:ALA:HA	1.98	0.44
17:B1:411:ASN:HA	17:B1:414:ARG:HG2	1.99	0.44
18:C0:581:PRO:HA	18:C0:582:PRO:HD2	1.73	0.44
18:C1:500:ARG:HD3	18:C1:503:LEU:HD12	1.99	0.44
18:C3:327:ALA:HA	18:C3:330:MET:HG3	1.99	0.44
18:C3:690:LEU:O	18:C3:694:ILE:HD12	2.17	0.44
18:C3:1289:VAL:O	18:C3:1293:GLN:HG2	2.17	0.44
19:D7:306:ALA:HB3	19:D7:309:ASN:HD22	1.82	0.44
19:G0:276:ARG:NH2	19:G0:312:PRO:HA	2.31	0.44
19:G1:337:LEU:HB3	19:G1:377:THR:HG21	2.00	0.44
19:G2:54:VAL:HB	19:G2:57:ILE:HG12	1.98	0.44
19:G2:277:GLU:HA	19:G2:280:LYS:HG2	1.98	0.44
19:G5:270:HIS:O	19:G5:274:VAL:HG23	2.16	0.44
19:H1:84:ILE:HG22	19:H1:88:LEU:HG	1.98	0.44
19:H5:72:SER:OG	19:H5:74:ASP:OD1	2.33	0.44
19:H7:114:SER:HB3	19:H7:117:LEU:HG	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:H7:283:PRO:O	19:H7:287:GLN:NE2	2.49	0.44
19:I0:256:ILE:HD13	19:I0:274:VAL:HG11	2.00	0.44
19:I1:128:ASP:N	19:I1:128:ASP:OD2	2.47	0.44
19:J2:46:LEU:HD23	19:J2:65:LEU:HG	1.98	0.44
25:NC:267:MET:SD	25:NC:371:SER:OG	2.67	0.44
24:NF:223:THR:OG1	24:NF:224:TYR:N	2.50	0.44
24:NH:207:GLU:HA	24:NH:210:TYR:HD2	1.82	0.44
24:NN:89:PRO:HD2	24:OP:280:LYS:HZ3	1.81	0.44
25:OC:98:GLY:HA2	24:OD:254:GLU:HG2	1.99	0.44
25:OG:167:PHE:HA	25:OG:200:MET:HB2	1.99	0.44
25:OG:236:ILE:HG13	25:OG:368:ILE:HD11	2.00	0.44
25:PK:294:TRP:CG	25:PK:333:VAL:HG21	2.52	0.44
28:Q0:2642:LEU:HD12	28:Q0:2658:LEU:HD22	1.99	0.44
28:Q0:2835:ARG:HE	28:Q0:2865:ALA:HB2	1.82	0.44
28:Q1:713:GLN:O	28:Q1:717:VAL:HG23	2.17	0.44
28:Q1:3081:ALA:O	28:Q1:3211:LYS:NZ	2.33	0.44
24:QD:116:ASP:OD1	24:QD:117:LEU:N	2.51	0.44
24:QD:136:LEU:HD13	24:QD:235:ILE:HD11	1.98	0.44
24:QH:121:ARG:HH12	24:QH:124:LYS:HD2	1.81	0.44
24:QJ:27:GLU:OE1	24:QJ:243:ARG:NH2	2.38	0.44
24:QJ:108:TYR:HA	24:QJ:112:LYS:NZ	2.32	0.44
24:QJ:222:PRO:O	25:QK:324:LYS:NZ	2.50	0.44
25:RC:4:ILE:HB	25:RC:50:TYR:HE1	1.81	0.44
25:RE:64:ILE:HA	25:RE:89:ASN:HB3	1.98	0.44
25:RI:270:PHE:CE1	25:RI:272:PRO:HD2	2.51	0.44
25:RI:317:PHE:HB2	25:RI:353:VAL:HG12	1.98	0.44
24:RJ:328:VAL:HG21	24:RJ:355:ILE:HD11	1.99	0.44
24:RP:231:ILE:O	24:RP:235:ILE:HG12	2.16	0.44
24:SB:101:ASN:ND2	24:SB:142:GLY:O	2.50	0.44
25:SM:232:VAL:HG21	25:SM:300:MET:HE1	1.99	0.44
32:T2:553:ARG:HH12	25:YC:396:HIS:CE1	2.35	0.44
24:TB:11:GLN:NE2	25:TC:245:GLN:O	2.50	0.44
24:TB:191:THR:HA	24:TB:194:LEU:HB2	1.98	0.44
25:TC:139:LEU:HD12	25:TC:170:VAL:HG12	1.99	0.44
25:TK:266:PHE:CE1	25:TK:370:ASN:HB2	2.53	0.44
25:TK:274:THR:OG1	25:TK:279:GLN:OE1	2.29	0.44
24:TL:141:VAL:O	24:TL:147:SER:OG	2.34	0.44
24:TL:178:SER:O	25:TM:347:ASN:ND2	2.50	0.44
24:UB:271:SER:OG	24:UB:301:MET:SD	2.75	0.44
24:UF:395:PHE:HE2	24:UF:422:ARG:HB2	1.82	0.44
24:VJ:102:ASN:HB3	24:VJ:105:ARG:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:VJ:180:ALA:HB3	24:VJ:183:GLU:HG3	1.99	0.44
24:VJ:238:LEU:HA	24:VJ:318:MET:HG3	2.00	0.44
25:VK:295:ASP:OD2	25:VK:297:LYS:HG2	2.17	0.44
24:VL:388:PHE:O	24:VL:392:ASP:N	2.47	0.44
24:VP:325:PRO:O	24:VP:329:ASN:ND2	2.50	0.44
24:WB:317:LEU:N	24:WB:352:LYS:O	2.40	0.44
24:WD:396:ASP:HB2	24:WD:422:ARG:HH12	1.82	0.44
25:WI:164:MET:HG2	25:WI:196:ALA:HA	1.99	0.44
25:WI:361:LEU:HD23	25:WI:361:LEU:HA	1.87	0.44
24:WL:71:GLU:HG2	25:WM:247:ASN:HD21	1.82	0.44
24:WN:240:ALA:HA	24:WN:243:ARG:HE	1.81	0.44
24:WN:254:GLU:O	24:WN:258:ASN:HB2	2.18	0.44
24:XB:297:GLU:HG3	24:XB:299:ALA:H	1.81	0.44
24:XD:15:GLN:NE2	44:XD:501:GTP:O6	2.48	0.44
24:XD:70:LEU:HB3	24:XD:98:ASP:HA	1.99	0.44
25:XG:238:CYS:HB2	25:XG:318:ARG:HH11	1.81	0.44
25:XK:91:VAL:HG11	25:XK:116:VAL:HG22	1.99	0.44
24:XN:317:LEU:O	24:XN:354:GLY:N	2.50	0.44
40:Y4:407:ALA:HB3	40:Y4:409:TRP:HD1	1.82	0.44
25:YG:33:THR:O	25:YG:58:ARG:NH1	2.50	0.44
25:YG:183:TYR:HE2	25:YG:395:LEU:HD13	1.81	0.44
24:YH:306:ASP:OD1	24:YH:308:ARG:NE	2.31	0.44
24:YH:311:LYS:H	24:YH:382:THR:HG1	1.62	0.44
24:YP:214:ARG:O	24:YP:214:ARG:NH1	2.37	0.44
41:Z1:19:VAL:HG13	41:Z1:30:ILE:HB	1.99	0.44
41:Z1:127:ILE:HD12	41:Z1:130:LYS:HD2	1.98	0.44
41:Z1:527:GLU:HA	41:Z1:530:LYS:HG3	1.99	0.44
41:Z2:33:ASP:N	41:Z2:33:ASP:OD1	2.49	0.44
24:ZJ:101:ASN:ND2	25:ZK:256:ASN:OD1	2.48	0.44
2:1A:1706:GLY:HA3	2:1A:1710:LEU:HD23	1.99	0.44
2:1C:1259:ALA:HB2	2:1C:1321:LEU:HD21	1.98	0.44
2:1C:1352:HIS:HB2	2:1C:1418:LEU:HD11	1.99	0.44
4:2A:210:ARG:HG2	4:2A:213:GLN:HE21	1.82	0.44
13:7E:96:ALA:HB1	13:7E:117:ALA:HA	2.00	0.44
15:9E:1083:ILE:HA	15:9E:1092:LEU:O	2.17	0.44
16:A1:36:ASP:OD1	24:XL:401:LYS:NZ	2.46	0.44
16:A1:98:LEU:HD21	19:G0:4:ARG:HG3	2.00	0.44
16:A2:101:GLU:HG3	16:A2:102:LEU:HD12	2.00	0.44
17:B1:491:ASP:HB2	24:RJ:159:VAL:HG21	2.00	0.44
17:B1:519:VAL:HG21	26:O1:366:ARG:NE	2.32	0.44
18:C0:1608:LEU:HD22	18:C0:1619:LEU:HD22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:C1:699:LYS:HD2	18:C1:699:LYS:HA	1.79	0.44
18:C3:942:ARG:NH1	18:C3:1044:VAL:O	2.51	0.44
18:C4:18:THR:OG1	18:C4:20:ASN:O	2.35	0.44
18:C4:118:GLY:HA2	18:C4:122:GLY:HA3	1.97	0.44
19:D4:253:PHE:HA	19:D4:256:ILE:HD12	1.99	0.44
19:D5:276:ARG:HH21	19:D5:312:PRO:HB3	1.83	0.44
19:D6:253:PHE:HA	19:D6:256:ILE:HD12	2.00	0.44
19:D7:128:ASP:OD1	19:D7:129:SER:N	2.50	0.44
21:F3:124:LEU:HB2	21:F3:173:VAL:HG13	2.00	0.44
19:G0:348:PRO:HB2	19:G0:352:LEU:HD21	1.97	0.44
19:G1:406:SER:O	19:G1:421:VAL:N	2.50	0.44
19:G5:189:SER:HB3	19:G5:228:GLN:NE2	2.32	0.44
19:H0:69:ALA:O	19:H0:113:HIS:NE2	2.47	0.44
19:H0:98:PHE:HA	25:ZM:406:MET:HE3	1.98	0.44
19:H4:52:ASP:O	19:H4:58:GLN:NE2	2.50	0.44
19:H5:86:PRO:HG2	19:H5:87:GLN:NE2	2.32	0.44
19:H6:402:ARG:HH21	19:H6:405:LYS:HD3	1.82	0.44
19:J2:387:GLU:HG3	19:J2:397:LYS:NZ	2.32	0.44
19:K0:12:ARG:NH2	19:K1:16:GLU:OE1	2.50	0.44
19:K1:276:ARG:HD3	19:K1:312:PRO:HA	1.99	0.44
19:L3:12:ARG:HH22	19:L3:13:TYR:HD1	1.64	0.44
19:L3:47:ARG:HG3	19:L3:87:GLN:HE22	1.82	0.44
23:N3:43:LEU:HG	23:N3:84:SER:HB2	1.99	0.44
24:NB:153:LEU:HD12	24:NB:153:LEU:HA	1.87	0.44
25:NC:234:SER:OG	25:NC:241:ARG:NH2	2.50	0.44
25:NE:67:ASP:N	25:NE:67:ASP:OD1	2.49	0.44
25:NE:67:ASP:OD2	25:NE:72:THR:OG1	2.34	0.44
24:NF:176:GLN:NE2	25:NG:331:LEU:HD21	2.32	0.44
26:O0:1518:ARG:HA	26:O0:1542:GLY:HA3	1.99	0.44
25:OC:156:ARG:NH1	25:OC:162:ARG:O	2.50	0.44
25:OE:11:GLN:N	46:OE:501:GDP:O2B	2.47	0.44
24:OH:287:SER:N	24:OH:290:GLU:OE2	2.48	0.44
24:OJ:9:ILE:HD13	24:OJ:150:GLY:HA2	1.98	0.44
25:OK:319:GLY:HA2	25:OK:357:PRO:HD3	1.99	0.44
24:OL:107:HIS:HD2	24:OL:152:LEU:HD13	1.81	0.44
24:PJ:387:ILE:HG22	24:PJ:390:ARG:HH22	1.82	0.44
25:PM:404:ASP:N	25:PM:404:ASP:OD2	2.44	0.44
24:PP:108:TYR:OH	24:PP:417:GLU:OE2	2.31	0.44
28:Q0:2267:LYS:HA	28:Q0:2267:LYS:HD3	1.77	0.44
28:Q0:2629:ALA:HA	28:Q0:2632:LEU:HD12	1.98	0.44
28:Q0:3125:ASP:OD1	28:Q0:3126:ILE:N	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:QF:9:ILE:HG13	24:QF:68:LEU:HD21	1.98	0.44
24:QF:170:THR:HG21	24:QF:194:LEU:HD21	1.99	0.44
24:QF:184:PRO:HG3	24:QF:394:LYS:HG3	1.99	0.44
24:QH:7:ILE:HD11	24:QH:137:VAL:HG22	1.99	0.44
24:QH:210:TYR:CE1	25:QI:324:LYS:HB3	2.51	0.44
24:QN:278:ALA:HA	24:QN:369:ALA:HB2	1.98	0.44
25:RC:121:ARG:HH21	25:RC:158:GLU:HG3	1.82	0.44
24:RD:94:SER:OG	24:RD:95:GLY:N	2.50	0.44
25:RK:61:PRO:HD3	25:RK:84:ILE:HG22	1.99	0.44
24:RN:268:MET:SD	24:RN:380:ASN:ND2	2.90	0.44
24:SD:71:GLU:HG3	24:SD:98:ASP:HB3	1.99	0.44
24:SD:101:ASN:ND2	24:SD:143:GLY:HA2	2.32	0.44
25:SE:221:THR:OG1	25:SE:222:PHE:N	2.50	0.44
25:SI:229:ILE:HG22	25:SI:233:MET:HE2	1.99	0.44
24:SJ:363:VAL:HG23	24:SJ:366:GLY:HA3	1.99	0.44
24:SJ:407:TRP:HZ2	25:SK:258:ILE:HD11	1.83	0.44
32:T2:384:VAL:HB	32:T2:439:PRO:HG3	1.99	0.44
25:TE:99:ASN:HD22	25:TE:141:GLY:HA2	1.83	0.44
25:TI:330:MET:HA	25:TI:333:VAL:HG12	1.98	0.44
24:TJ:174:SER:HB3	24:TJ:177:VAL:O	2.17	0.44
25:TM:144:GLY:N	46:TM:502:GDP:O2B	2.44	0.44
33:U1:139:ILE:HD13	33:U1:153:ILE:HG23	1.99	0.44
25:UC:223:GLY:HA2	25:UC:226:ASN:HD22	1.83	0.44
25:UE:47:ILE:HG22	25:UE:51:PHE:HB2	2.00	0.44
25:UE:410:GLU:O	25:UE:413:SER:OG	2.27	0.44
24:UF:167:LEU:HB3	24:UF:169:PHE:HE1	1.82	0.44
24:UF:396:ASP:OD1	24:UF:422:ARG:NE	2.50	0.44
25:UG:272:PRO:HG3	25:UG:364:SER:HA	1.97	0.44
24:UH:66:ILE:HD12	24:UH:68:LEU:HD23	1.99	0.44
24:UH:209:ILE:HG23	24:UH:230:LEU:HD11	1.99	0.44
25:UI:166:THR:OG1	25:UI:199:CYS:SG	2.74	0.44
24:VL:269:LEU:N	24:VL:379:SER:O	2.41	0.44
25:WA:376:GLU:HA	25:WA:379:LYS:HB3	1.98	0.44
25:WE:271:THR:HG23	25:WE:292:GLN:HB3	1.99	0.44
25:WE:315:ALA:HB3	25:WE:351:SER:HA	1.98	0.44
24:WF:425:LEU:O	24:WF:429:GLU:HG2	2.17	0.44
25:WG:397:TRP:NE1	24:WH:260:VAL:O	2.44	0.44
25:WK:416:ASN:HA	25:WK:419:VAL:HG22	1.99	0.44
24:WL:406:HIS:HA	24:WL:409:VAL:HG22	1.99	0.44
25:WM:25:SER:HB2	25:WM:30:ILE:HB	1.97	0.44
25:WM:175:VAL:HG11	24:WN:329:ASN:HD21	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:WN:6:SER:O	24:WN:65:CYS:HA	2.17	0.44
39:X0:254:LEU:HD21	39:X0:257:LEU:HB2	1.99	0.44
39:X3:508:TRP:HZ3	39:X3:606:ASN:HB2	1.82	0.44
39:X3:569:VAL:HG12	39:X3:623:PRO:HG2	1.98	0.44
24:XB:88:HIS:HD2	25:YC:281:TYR:HB2	1.82	0.44
25:XC:135:VAL:HG21	25:XC:152:ILE:HD11	1.99	0.44
40:Y2:405:LYS:HE2	40:Y2:477:TRP:CE2	2.52	0.44
40:Y3:21:ASN:HA	40:Y3:24:VAL:HG12	1.99	0.44
40:Y3:214:PRO:HA	40:Y3:282:VAL:HG12	1.99	0.44
40:Y3:366:VAL:HG23	40:Y3:368:ASN:HB2	1.99	0.44
40:Y6:25:LYS:HD3	40:Y6:25:LYS:HA	1.62	0.44
25:YE:215:LEU:HD21	25:YE:273:LEU:HB3	1.99	0.44
24:YH:85:GLN:O	24:ZH:283:HIS:NE2	2.44	0.44
24:YN:133:GLN:HE22	24:YN:252:ILE:H	1.66	0.44
24:YP:259:LEU:HD11	24:YP:316:CYS:HB2	1.99	0.44
41:Z0:19:VAL:HG13	41:Z0:30:ILE:HB	1.99	0.44
41:Z0:200:ASN:HB2	41:Z0:337:VAL:HA	1.99	0.44
41:Z2:568:LEU:HB2	41:Z2:573:LYS:HZ3	1.83	0.44
25:ZI:19:LYS:NZ	25:ZI:223:GLY:O	2.50	0.44
2:1B:1344:LYS:HA	2:1B:1435:ILE:HG13	1.99	0.44
2:1B:1576:ARG:HB3	2:1B:1923:ARG:HH22	1.82	0.44
2:1C:1410:SER:OG	2:1C:1413:ASN:OD1	2.27	0.44
2:1C:1575:PRO:HD2	2:1C:1923:ARG:HH21	1.82	0.44
2:1C:2058:ARG:O	2:1C:2093:ALA:HA	2.17	0.44
2:1D:2026:VAL:HG22	2:1D:2096:ASP:HA	1.99	0.44
4:2B:232:SER:O	4:2B:236:LYS:HG2	2.17	0.44
11:5B:235:LEU:HA	11:5B:281:ALA:HB1	1.99	0.44
16:A2:95:SER:HB3	25:XG:121:ARG:HE	1.80	0.44
16:A2:145:THR:O	25:YG:332:ASN:ND2	2.42	0.44
18:C0:1745:ALA:HA	18:C0:1748:LYS:HG2	1.99	0.44
18:C1:1232:LEU:HD23	18:C1:1238:ALA:HB2	1.98	0.44
18:C2:156:LEU:HD23	18:C2:156:LEU:HA	1.87	0.44
18:C3:1311:HIS:HA	18:C3:1314:TRP:CD1	2.52	0.44
19:D1:100:LYS:HB3	19:D1:141:VAL:HG23	1.98	0.44
19:D2:84:ILE:HG22	19:D2:88:LEU:HD23	2.00	0.44
19:D3:337:LEU:HA	19:D3:340:LEU:HG	2.00	0.44
19:D6:383:LEU:HD22	19:D6:397:LYS:HD3	2.00	0.44
20:E3:57:LYS:NZ	24:UP:341:ILE:O	2.43	0.44
19:G0:273:THR:HA	19:G0:276:ARG:HG2	2.00	0.44
19:G3:252:ILE:HA	19:G3:255:LYS:HE2	1.98	0.44
19:H0:15:LYS:HE2	19:H0:15:LYS:HB3	1.84	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:H3:59:GLN:HG2	19:H3:99:TYR:N	2.32	0.44
19:H4:88:LEU:HD11	19:H4:106:CYS:HB3	1.99	0.44
19:I0:206:VAL:HG21	19:I0:243:LEU:HD22	1.99	0.44
19:J0:353:LYS:HD3	19:J0:353:LYS:HA	1.63	0.44
19:J0:379:CYS:O	19:J0:382:THR:OG1	2.28	0.44
19:J1:471:LEU:O	19:J1:475:VAL:N	2.50	0.44
19:J3:176:VAL:O	19:J3:184:LYS:NZ	2.34	0.44
19:K1:121:VAL:HG13	19:K1:152:ILE:HD12	2.00	0.44
19:K3:34:ILE:HG22	19:K3:38:GLN:HE22	1.82	0.44
19:L3:224:LYS:HG2	19:L3:227:ARG:NH2	2.32	0.44
24:NB:89:PRO:HD2	24:OD:280:LYS:NZ	2.33	0.44
24:NB:284:GLU:HG2	24:ZB:88:HIS:HE1	1.82	0.44
25:NI:109:GLY:O	25:NI:113:ILE:N	2.50	0.44
25:NK:257:LEU:HD21	25:NK:314:SER:HB2	1.98	0.44
24:NN:322:ASP:OD1	24:NN:322:ASP:N	2.44	0.44
25:NO:44:LEU:HA	25:NO:47:ILE:HD11	1.99	0.44
25:OC:103:LYS:HA	25:OC:107:THR:HG22	1.99	0.44
25:OC:139:LEU:HD12	25:OC:170:VAL:HG12	1.97	0.44
25:OE:25:SER:O	25:OE:30:ILE:N	2.49	0.44
24:PD:236:SER:OG	24:PD:243:ARG:NH2	2.50	0.44
25:PE:31:ASP:OD1	25:PE:35:THR:N	2.50	0.44
24:PJ:8:HIS:HA	24:PJ:138:PHE:HB2	1.98	0.44
24:PJ:24:TYR:HE1	24:PJ:236:SER:HB2	1.82	0.44
24:PJ:406:HIS:HA	24:PJ:409:VAL:HG12	1.99	0.44
25:PK:220:PRO:HD2	24:PL:326:LYS:HB2	1.99	0.44
25:PM:46:ARG:HD3	25:PM:46:ARG:HA	1.85	0.44
25:PM:177:ASP:O	24:PN:352:LYS:HA	2.16	0.44
25:PM:248:ALA:HA	25:PM:252:LYS:HG3	2.00	0.44
24:PP:345:ASP:OD1	24:PP:345:ASP:N	2.49	0.44
25:PQ:221:THR:HG23	25:PQ:223:GLY:H	1.82	0.44
28:Q0:285:ARG:HA	28:Q0:288:MET:HG2	2.00	0.44
28:Q1:1229:LEU:HD23	28:Q1:1232:ARG:HD2	1.99	0.44
28:Q1:2071:LEU:HD23	28:Q1:2142:VAL:HG11	1.98	0.44
24:QF:222:PRO:O	25:QG:322:SER:OG	2.35	0.44
24:QL:178:SER:OG	24:QL:183:GLU:OE1	2.32	0.44
25:QM:325:GLU:HA	25:QM:328:GLU:HG3	2.00	0.44
25:QO:248:ALA:HA	25:QO:252:LYS:HG3	1.99	0.44
25:QO:380:ARG:O	25:QO:384:GLN:N	2.42	0.44
29:R1:2184:LEU:O	29:R1:2188:ALA:CB	2.66	0.44
25:RC:9:GLY:HA2	25:RC:66:MET:SD	2.57	0.44
24:RD:303:VAL:HG11	24:RD:387:ILE:HD13	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:RE:215:LEU:HD11	25:RE:228:LEU:HD21	1.98	0.44
24:RF:264:ARG:NH1	24:RF:431:ASP:OD2	2.51	0.44
25:RO:271:THR:HG22	25:RO:293:MET:HG2	1.98	0.44
25:SC:34:GLY:HA3	25:SC:58:ARG:HD2	1.99	0.44
25:SC:198:GLU:HB2	25:SC:266:PHE:CE2	2.51	0.44
24:SJ:10:GLY:O	24:SJ:14:ILE:HG12	2.18	0.44
24:SJ:238:LEU:HD12	24:SJ:239:THR:HG23	1.98	0.44
25:SO:248:ALA:HA	25:SO:252:LYS:HG2	1.99	0.44
24:SP:251:ASP:H	24:SP:254:GLU:HG2	1.81	0.44
24:TD:116:ASP:N	24:TD:116:ASP:OD1	2.51	0.44
25:TI:289:LEU:HD21	25:TI:365:ALA:HB3	1.98	0.44
25:TK:6:HIS:CD2	25:TK:8:GLN:HE21	2.35	0.44
25:UC:216:LYS:HB2	25:UC:275:SER:HB3	1.98	0.44
25:UO:5:VAL:HG23	25:UO:130:LEU:HD11	1.99	0.44
24:UP:259:LEU:HD21	24:UP:316:CYS:HB2	1.99	0.44
25:VE:177:ASP:OD1	25:VE:178:THR:N	2.50	0.44
25:VG:5:VAL:HB	25:VG:133:PHE:HD1	1.82	0.44
24:VH:71:GLU:HG2	24:VH:73:THR:HG22	1.98	0.44
24:VH:195:LEU:HA	24:VH:266:HIS:CE1	2.50	0.44
24:VN:18:ASN:HD21	24:VN:78:VAL:HG22	1.81	0.44
25:VO:31:ASP:OD2	25:VO:35:THR:OG1	2.34	0.44
24:WD:273:ALA:HB2	24:WD:295:ALA:HB2	1.99	0.44
24:WH:231:ILE:O	24:WH:235:ILE:HG12	2.17	0.44
25:WI:166:THR:HG21	25:WI:192:LEU:HD11	1.99	0.44
25:WK:21:TRP:HH2	25:WK:50:TYR:HB3	1.83	0.44
24:WL:222:PRO:HD2	25:WM:324:LYS:NZ	2.32	0.44
25:WO:215:LEU:HD11	25:WO:228:LEU:HD21	1.98	0.44
24:XB:130:THR:OG1	24:XB:131:GLY:N	2.50	0.44
25:XC:412:GLU:HA	25:XC:415:MET:HB2	2.00	0.44
24:XD:102:ASN:HB2	24:XD:105:ARG:HB2	1.99	0.44
25:XE:248:ALA:HA	25:XE:252:LYS:HG3	1.99	0.44
24:XH:206:ASN:OD1	44:XH:501:GTP:N2	2.50	0.44
24:XL:49:PHE:HB2	24:XL:53:PHE:HB2	1.99	0.44
40:Y2:426:ALA:HB1	40:Y2:454:LEU:HB2	1.99	0.44
40:Y3:134:GLN:HA	40:Y3:137:LYS:HG2	1.98	0.44
40:Y4:76:ARG:O	40:Y4:162:LYS:NZ	2.46	0.44
40:Y7:207:MET:HG3	40:Y7:288:VAL:HG13	1.98	0.44
40:Y7:251:ASP:O	40:Y7:444:ARG:NH1	2.51	0.44
24:YB:304:LYS:HD2	24:YB:304:LYS:HA	1.87	0.44
25:YC:7:ILE:HD13	25:YC:151:LEU:HD21	1.98	0.44
24:YF:109:THR:HG21	24:YF:411:GLU:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:YH:271:SER:HA	24:YH:302:MET:HG2	1.99	0.44
25:YI:156:ARG:NH1	25:YI:197:ASP:OD1	2.49	0.44
24:YJ:218:ASP:OD2	24:YJ:280:LYS:NZ	2.50	0.44
25:YK:122:LYS:NZ	25:YK:123:GLU:OE2	2.44	0.44
41:Z1:130:LYS:NZ	41:Z1:169:ALA:O	2.38	0.44
24:ZJ:139:ASN:ND2	24:ZJ:146:GLY:O	2.50	0.44
24:ZL:132:LEU:HD22	24:ZL:164:LYS:HE3	1.99	0.44
25:ZO:6:HIS:O	25:ZO:63:ALA:HA	2.16	0.44
24:ZP:139:ASN:O	24:ZP:170:THR:HA	2.17	0.44
2:1B:1816:ASP:HB3	2:1B:1818:ARG:HG2	1.99	0.44
2:1C:2014:LEU:HD21	2:1C:2110:LEU:HD23	1.99	0.44
2:1C:2034:PHE:HB3	2:1C:2128:LEU:HG	1.99	0.44
2:1D:1273:LEU:HD21	2:1D:1309:ARG:HD3	2.00	0.44
2:1D:1814:LEU:HD12	2:1D:1815:GLN:OE1	2.17	0.44
15:9F:1695:MET:HA	15:9F:1781:LEU:HA	1.99	0.44
17:B1:623:ASP:HB3	25:RE:406:MET:HG3	2.00	0.44
18:C1:882:GLN:OE1	39:X1:93:GLN:NE2	2.50	0.44
18:C1:1200:LEU:HA	18:C1:1203:ARG:HD3	1.99	0.44
18:C1:1925:VAL:HG13	18:C1:1928:ARG:HD3	1.98	0.44
18:C2:395:VAL:O	18:C2:398:GLU:HG2	2.17	0.44
19:D0:108:ARG:O	19:D0:112:ARG:HB2	2.18	0.44
20:E1:110:PHE:HE1	25:TG:106:TYR:HB3	1.83	0.44
19:G3:70:ASN:HD22	19:G3:70:ASN:C	2.18	0.44
19:G3:239:HIS:HB2	19:G3:243:LEU:HD12	1.98	0.44
19:I0:253:PHE:HD2	19:I0:292:ASN:HD21	1.64	0.44
19:J3:218:VAL:HA	19:J3:226:LYS:HE3	1.99	0.44
19:K0:275:VAL:HG21	19:K0:298:LEU:HD21	1.98	0.44
19:K2:260:LEU:HD23	19:K2:297:ALA:HB1	1.99	0.44
19:L2:287:GLN:HA	19:L2:290:VAL:HG22	1.98	0.44
19:L3:89:VAL:HG21	19:L3:126:ALA:HA	1.99	0.44
22:M0:871:LEU:HD12	22:M0:872:PRO:HD2	1.99	0.44
24:NB:98:ASP:OD1	24:NB:98:ASP:N	2.48	0.44
24:NB:269:LEU:N	24:NB:379:SER:O	2.46	0.44
24:ND:9:ILE:HG22	24:ND:146:GLY:HA2	1.98	0.44
24:ND:22:GLU:OE1	24:ND:83:TYR:OH	2.36	0.44
24:NF:398:MET:HE1	25:NG:345:ILE:HA	2.00	0.44
24:NH:259:LEU:HD11	24:NH:316:CYS:HB2	1.99	0.44
25:NK:113:ILE:HA	25:NK:116:VAL:HG12	1.99	0.44
24:OD:223:THR:HG23	24:OD:225:THR:H	1.82	0.44
25:OE:52:ASN:ND2	25:OE:123:GLU:OE2	2.37	0.44
25:OG:321:MET:SD	25:OG:321:MET:N	2.91	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:OH:298:PRO:HA	24:OH:301:MET:HG2	1.99	0.44
24:OJ:88:HIS:HE1	24:OJ:90:GLU:HG2	1.83	0.44
25:OO:201:VAL:HG11	25:OO:377:MET:HE2	1.99	0.44
25:PE:125:GLU:HG2	37:W9:156:UNK:HA	1.98	0.44
24:PL:178:SER:H	25:PM:347:ASN:ND2	2.15	0.44
24:PP:251:ASP:OD1	24:PP:252:ILE:N	2.47	0.44
24:PP:325:PRO:O	24:PP:329:ASN:OD1	2.36	0.44
28:Q0:2484:LEU:HD12	28:Q0:2507:LEU:HD13	1.99	0.44
28:Q1:1227:ARG:HG3	28:Q1:1264:LEU:HD11	1.99	0.44
28:Q1:2367:LEU:HD11	28:Q1:2460:MET:SD	2.57	0.44
24:QF:99:ALA:HA	24:QF:110:ILE:HD11	1.99	0.44
25:QK:234:SER:OG	25:QK:241:ARG:NH2	2.50	0.44
25:QO:372:THR:HG21	25:QO:426:GLN:HG3	1.99	0.44
24:RF:79:ARG:NH2	24:RF:92:LEU:O	2.51	0.44
24:RL:170:THR:HG21	24:RL:194:LEU:HD21	1.99	0.44
30:S1:38:LYS:HB2	30:S1:41:TRP:HB2	1.99	0.44
25:SC:192:LEU:HD21	25:SC:199:CYS:SG	2.58	0.44
24:SJ:319:TYR:HB3	24:SJ:323:VAL:HG21	2.00	0.44
24:SL:286:LEU:HD13	24:SL:371:VAL:HG13	2.00	0.44
32:T1:556:TYR:CE1	25:YG:399:THR:HG21	2.52	0.44
24:TB:50:ASN:O	24:TB:64:ARG:NH2	2.49	0.44
24:TB:116:ASP:OD1	24:TB:117:LEU:N	2.51	0.44
25:TO:391:ARG:O	24:TP:262:TYR:OH	2.32	0.44
24:TP:265:ILE:HG23	24:TP:432:PHE:HE1	1.82	0.44
25:UK:298:ASN:O	25:UK:298:ASN:ND2	2.49	0.44
24:UL:231:ILE:O	24:UL:235:ILE:HG12	2.18	0.44
24:UN:13:GLY:O	24:UN:17:GLY:N	2.49	0.44
24:UN:238:LEU:HA	24:UN:238:LEU:HD23	1.79	0.44
24:UP:3:GLU:HG3	24:UP:129:CYS:HB2	1.99	0.44
24:VH:217:LEU:HG	24:VH:275:ILE:HG22	1.98	0.44
25:WA:330:MET:HA	25:WA:333:VAL:HG12	1.99	0.44
25:WE:234:SER:OG	25:WE:241:ARG:NH2	2.51	0.44
24:WF:187:SER:O	24:WF:191:THR:OG1	2.26	0.44
25:WK:289:LEU:HD11	25:WK:363:MET:HG2	1.98	0.44
39:X1:229:LEU:HB3	39:X1:232:LEU:HD23	1.99	0.44
39:X2:596:LEU:HD12	39:X2:597:PRO:HD3	1.99	0.44
24:XH:178:SER:HB3	25:XI:347:ASN:HD22	1.82	0.44
24:XJ:265:ILE:HG23	24:XJ:432:PHE:HE1	1.83	0.44
25:XK:198:GLU:HB3	25:XK:258:ILE:HD11	2.00	0.44
25:XK:319:GLY:N	25:XK:354:CYS:O	2.44	0.44
25:XO:20:PHE:HA	25:XO:230:SER:HB2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:Y0:367:THR:HG22	40:Y0:390:GLN:HB2	1.98	0.44
40:Y1:134:GLN:HA	40:Y1:137:LYS:NZ	2.32	0.44
40:Y2:381:VAL:HG23	40:Y2:409:TRP:CZ3	2.51	0.44
40:Y3:51:VAL:HG13	40:Y3:53:ARG:HH22	1.83	0.44
40:Y3:450:LYS:HD3	40:Y3:450:LYS:HA	1.74	0.44
40:Y4:132:ILE:HG21	40:Y4:160:VAL:HG11	1.99	0.44
40:Y4:335:SER:HA	40:Y4:358:GLN:HB3	1.98	0.44
40:Y6:79:VAL:HG21	40:Y6:151:ASN:HB2	1.99	0.44
40:Y7:59:ARG:NH2	40:Y7:81:SER:O	2.51	0.44
24:YB:9:ILE:HG12	24:YB:68:LEU:HD21	1.99	0.44
25:YC:19:LYS:NZ	25:YC:22:GLU:OE2	2.49	0.44
24:YL:214:ARG:O	24:YL:214:ARG:NH1	2.42	0.44
24:YL:271:SER:HB3	24:YL:301:MET:HA	1.99	0.44
24:ZB:272:TYR:HB3	24:ZB:275:ILE:HD11	1.99	0.44
25:ZG:334:GLN:HE21	25:ZG:349:VAL:HG23	1.82	0.44
25:ZK:319:GLY:N	25:ZK:354:CYS:O	2.46	0.44
24:ZL:102:ASN:HB3	24:ZL:105:ARG:HB2	1.99	0.44
25:ZM:139:LEU:HD12	25:ZM:170:VAL:HG12	1.98	0.44
24:ZN:65:CYS:SG	24:ZN:66:ILE:N	2.91	0.44
2:1D:1245:GLY:HA3	2:1D:1251:LYS:HZ2	1.83	0.44
2:1D:2114:CYS:HB3	2:1D:2118:LEU:HD11	1.98	0.44
4:2B:300:PHE:HD2	4:2B:388:ALA:HB2	1.82	0.44
13:7F:134:TYR:HA	13:7F:149:TYR:HA	1.98	0.44
17:B0:539:LEU:HG	24:SP:340:THR:HG21	1.99	0.44
18:C0:649:VAL:HG11	18:C0:689:ARG:HD3	1.98	0.44
18:C0:1214:LYS:NZ	18:C0:1218:VAL:HB	2.32	0.44
18:C0:1304:ASN:HA	18:C0:1307:ARG:HG2	1.98	0.44
18:C0:1654:VAL:HG11	18:C0:1670:ALA:HB2	1.99	0.44
18:C2:601:ALA:HB3	18:C2:604:ALA:HB2	1.99	0.44
18:C2:832:PRO:HB3	18:C2:887:LEU:HD21	1.98	0.44
18:C3:604:ALA:O	43:C3:2001:ANP:O2A	2.35	0.44
18:C3:1793:THR:HB	18:C3:1806:GLN:HE22	1.83	0.44
19:D7:88:LEU:HD21	19:D7:103:ALA:HB1	1.99	0.44
21:F1:123:VAL:HG12	21:F1:174:VAL:HG22	2.00	0.44
21:F2:173:VAL:HG22	21:F2:182:VAL:HG12	1.99	0.44
21:F2:516:GLU:O	21:F2:531:LYS:N	2.45	0.44
19:G2:111:ALA:HB2	19:G2:121:VAL:HG21	2.00	0.44
19:H6:95:GLN:H	19:H6:100:LYS:HZ1	1.65	0.44
19:H7:224:LYS:HD3	19:H7:228:GLN:HG2	2.00	0.44
19:J2:394:ASP:OD1	19:J2:395:ASP:N	2.50	0.44
19:J3:185:ARG:NH2	19:J3:224:LYS:HB2	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:K2:358:TRP:HA	19:K2:400:CYS:SG	2.58	0.44
19:K3:220:ASN:O	19:K3:226:LYS:NZ	2.46	0.44
19:L0:105:PHE:HA	19:L0:108:ARG:HG2	1.99	0.44
19:L0:382:THR:O	19:L0:385:SER:OG	2.27	0.44
24:NN:423:GLU:HA	24:NN:426:ALA:HB3	1.99	0.44
24:OD:168:GLY:N	24:OD:200:VAL:O	2.45	0.44
25:OG:20:PHE:HA	25:OG:230:SER:HB2	1.99	0.44
24:ON:138:PHE:HZ	24:ON:235:ILE:HG12	1.82	0.44
25:OO:375:GLN:HA	25:OO:378:PHE:HB2	2.00	0.44
25:OQ:190:HIS:CE1	25:OQ:410:GLU:HG3	2.50	0.44
25:PC:85:PHE:HB2	25:PC:90:PHE:HE1	1.82	0.44
24:PH:7:ILE:HD11	24:PH:137:VAL:HG22	2.00	0.44
25:PI:166:THR:HB	25:PI:199:CYS:HA	2.00	0.44
28:Q0:766:ALA:HB1	28:Q0:1024:PRO:HD3	2.00	0.44
28:Q0:852:ASN:HA	28:Q0:853:PRO:HD3	1.85	0.44
28:Q0:1136:LEU:HD22	28:Q0:2148:ARG:HD3	1.98	0.44
25:QE:32:PRO:O	25:QE:83:GLN:NE2	2.51	0.44
25:QE:416:ASN:HA	25:QE:419:VAL:HG12	2.00	0.44
25:QG:270:PHE:HD1	25:QG:366:THR:HG22	1.81	0.44
24:QH:207:GLU:HA	24:QH:210:TYR:HB2	1.99	0.44
24:QN:88:HIS:HE1	24:RN:284:GLU:HB2	1.82	0.44
25:QQ:114:ASP:OD1	25:QQ:114:ASP:N	2.50	0.44
24:RD:217:LEU:HD11	24:RD:367:ASP:HB3	1.98	0.44
25:RI:61:PRO:HD2	25:RI:85:PHE:HA	1.99	0.44
25:RK:271:THR:HG21	25:RK:365:ALA:HB3	1.99	0.44
25:RO:248:ALA:HA	25:RO:252:LYS:HG3	1.99	0.44
25:SG:41:ASP:OD1	25:SG:41:ASP:N	2.51	0.44
25:SK:55:THR:HG23	25:TK:283:ALA:HA	2.00	0.44
25:SM:234:SER:O	25:SM:241:ARG:NH2	2.49	0.44
24:SN:288:VAL:HA	24:SN:291:ILE:HG12	1.99	0.44
32:T2:419:GLU:HG3	32:T2:420:PRO:HD3	2.00	0.44
25:TG:191:GLN:O	25:TG:195:ASN:ND2	2.50	0.44
24:TJ:133:GLN:HG3	24:TJ:252:ILE:HB	1.99	0.44
25:TK:222:PHE:HD2	24:TL:325:PRO:HG3	1.83	0.44
25:TO:13:GLY:HA2	25:TO:16:ILE:HG22	2.00	0.44
25:UC:2:ARG:HD2	25:UC:240:LEU:HD22	1.99	0.44
24:UF:203:MET:HB3	24:UF:269:LEU:HA	2.00	0.44
24:UJ:250:VAL:HG13	24:UJ:352:LYS:HE3	1.98	0.44
24:UL:154:LEU:HG	24:UL:197:HIS:HB3	2.00	0.44
24:UN:230:LEU:HB3	24:UN:368:LEU:HD11	1.99	0.44
24:VB:372:GLN:OE1	24:VB:372:GLN:N	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:VC:109:GLY:O	25:VC:113:ILE:HG12	2.18	0.44
24:VF:102:ASN:HB3	24:VF:105:ARG:HB2	1.99	0.44
25:VI:94:GLN:OE1	24:VJ:1:MET:N	2.50	0.44
24:VN:177:VAL:HA	25:VO:331:LEU:HD21	1.99	0.44
24:VP:292:THR:OG1	24:VP:319:TYR:OH	2.28	0.44
35:W1:895:ASP:O	35:W1:899:ALA:N	2.49	0.44
25:WC:257:LEU:HD21	25:WC:314:SER:HB3	1.99	0.44
25:WE:284:LEU:HD22	25:WE:363:MET:HB3	2.00	0.44
24:WH:275:ILE:HG23	24:WH:368:LEU:HD21	1.99	0.44
25:WI:98:GLY:O	24:WJ:257:THR:HG21	2.18	0.44
24:WJ:10:GLY:O	24:WJ:14:ILE:HG12	2.18	0.44
24:WL:430:LYS:HE2	24:WL:430:LYS:HB3	1.75	0.44
39:X3:207:CYS:HB3	39:X3:210:LEU:HD23	2.00	0.44
24:XD:106:GLY:HA3	24:XD:148:GLY:HA3	1.99	0.44
25:XG:330:MET:HA	25:XG:333:VAL:HG12	1.99	0.44
24:XJ:100:ALA:O	24:XJ:102:ASN:ND2	2.51	0.44
25:XM:141:GLY:O	25:XM:184:ASN:ND2	2.51	0.44
25:XM:177:ASP:N	25:XM:181:GLU:OE2	2.50	0.44
40:Y5:87:VAL:HG22	40:Y5:342:GLN:HE21	1.81	0.44
40:Y6:170:VAL:HB	40:Y6:174:LYS:HD3	2.00	0.44
24:YD:76:ASP:OD2	25:YE:46:ARG:NH2	2.50	0.44
24:YJ:224:TYR:CZ	25:YK:323:THR:HG21	2.52	0.44
25:YK:159:TYR:HB3	25:YK:162:ARG:HG2	2.00	0.44
41:Z0:240:ASP:O	41:Z0:244:VAL:N	2.39	0.44
41:Z2:574:GLU:O	41:Z2:578:LYS:HG2	2.18	0.44
41:Z3:152:ALA:O	41:Z3:159:ARG:NH2	2.51	0.44
41:Z3:322:PRO:HA	41:Z3:325:LYS:HG2	2.00	0.44
25:ZC:67:ASP:OD1	25:ZC:67:ASP:N	2.51	0.44
25:ZE:221:THR:OG1	25:ZE:222:PHE:N	2.51	0.44
25:ZI:2:ARG:HD2	25:ZI:240:LEU:HD22	1.98	0.44
25:ZI:105:HIS:CD2	25:ZI:150:LEU:HB2	2.52	0.44
25:ZI:416:ASN:HA	25:ZI:419:VAL:HG22	1.99	0.44
2:1B:1706:GLY:HA3	2:1B:1710:LEU:HD23	1.99	0.44
2:1B:1916:ARG:HH12	18:C1:1552:LEU:HD23	1.82	0.44
2:1C:1269:VAL:HA	2:1C:1273:LEU:HD13	1.99	0.44
2:1C:1299:ASP:OD1	2:1C:1299:ASP:N	2.49	0.44
2:1D:1915:LYS:NZ	18:C3:1922:ASP:OD2	2.34	0.44
15:9B:797:SER:CB	15:9B:814:TYR:O	2.66	0.44
15:9C:1343:GLY:HA2	15:9C:1348:LEU:HA	2.00	0.44
16:A2:155:GLN:NE2	24:YF:176:GLN:HE21	2.15	0.44
18:C0:451:ARG:HH12	18:C0:455:GLN:HB2	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:C0:604:ALA:O	43:C0:2001:ANP:O2A	2.35	0.44
18:C0:619:LEU:HD23	18:C0:763:ARG:HB3	1.99	0.44
18:C0:1197:PHE:O	18:C0:1201:ARG:HG2	2.18	0.44
18:C1:445:LEU:O	18:C1:448:GLU:HG3	2.17	0.44
18:C2:64:GLN:HA	18:C2:67:PHE:HD2	1.83	0.44
18:C2:270:VAL:O	18:C2:274:ILE:HG12	2.17	0.44
19:D2:100:LYS:HD3	19:D2:141:VAL:HG11	2.00	0.44
19:D3:72:SER:OG	19:D3:74:ASP:OD1	2.29	0.44
19:D5:268:LYS:HB3	19:D5:301:TYR:CE1	2.53	0.44
20:E1:160:ASN:HD21	20:E1:162:TRP:HD1	1.64	0.44
20:E3:375:GLU:HB3	24:UN:117:LEU:HD13	2.00	0.44
19:G3:243:LEU:HA	19:G3:246:VAL:HG22	1.99	0.44
19:G4:170:PRO:HA	19:G4:173:VAL:HG22	2.00	0.44
19:H0:211:VAL:HA	19:H0:214:LEU:HG	1.99	0.44
19:H7:196:LYS:HA	19:H7:235:GLN:HB3	1.98	0.44
19:K2:128:ASP:HA	19:K2:131:VAL:HG12	2.00	0.44
19:L0:448:ARG:HA	19:L0:451:PHE:CD2	2.53	0.44
19:L2:128:ASP:OD1	19:L2:129:SER:N	2.51	0.44
19:L3:46:LEU:HA	19:L3:49:LEU:HD23	2.00	0.44
19:L3:329:LEU:HA	19:L3:332:ILE:HG12	2.00	0.44
25:NE:236:ILE:HD12	25:NE:368:ILE:HD11	1.99	0.44
25:NE:248:ALA:HA	25:NE:252:LYS:HG3	2.00	0.44
25:NG:87:PRO:HD3	25:OI:281:TYR:HD2	1.82	0.44
25:NI:177:ASP:N	25:NI:181:GLU:OE2	2.50	0.44
25:NI:232:VAL:HG21	25:NI:268:VAL:HB	1.98	0.44
24:NL:238:LEU:HA	24:NL:318:MET:HG3	1.99	0.44
24:NL:406:HIS:CG	25:NM:261:PRO:HG3	2.52	0.44
25:OE:24:VAL:HG22	25:OE:28:HIS:HD2	1.82	0.44
25:OI:7:ILE:HG23	25:OI:64:ILE:HB	1.99	0.44
25:OM:21:TRP:CH2	25:OM:50:TYR:HB3	2.53	0.44
25:OM:173:PRO:HB3	25:OM:380:ARG:HG2	1.99	0.44
25:OM:236:ILE:HG23	25:OM:368:ILE:HD11	1.99	0.44
25:OO:204:ASN:OD1	46:OO:501:GDP:O2'	2.27	0.44
24:OP:137:VAL:HG21	24:OP:154:LEU:HD11	2.00	0.44
25:OQ:156:ARG:HH22	25:OQ:197:ASP:HB2	1.83	0.44
25:PE:135:VAL:HG21	25:PE:152:ILE:HD11	1.99	0.44
25:PG:19:LYS:HA	25:PG:22:GLU:HG2	2.00	0.44
25:PG:236:ILE:HD12	25:PG:368:ILE:HD11	2.00	0.44
25:PI:113:ILE:HG13	25:PI:150:LEU:HD23	2.00	0.44
25:PK:298:ASN:O	25:PK:298:ASN:ND2	2.51	0.44
24:PL:192:HIS:NE2	24:PL:420:GLU:OE1	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:PM:259:PRO:HB2	25:PM:260:PHE:HD1	1.82	0.44
24:PN:240:ALA:O	24:PN:356:ASN:ND2	2.50	0.44
25:PO:175:VAL:HG21	24:PP:329:ASN:ND2	2.32	0.44
28:Q0:2192:LEU:O	28:Q0:2196:VAL:HG23	2.18	0.44
28:Q0:3106:LEU:HD13	28:Q0:3147:LEU:HD13	1.99	0.44
28:Q1:2300:GLN:HA	28:Q1:2303:MET:HE2	2.00	0.44
28:Q1:2704:ALA:HB1	28:Q1:2830:LEU:HD11	1.99	0.44
28:Q1:3206:LEU:HD21	28:Q1:3208:VAL:HG22	1.98	0.44
25:QE:144:GLY:N	46:QE:501:GDP:O2B	2.48	0.44
24:QF:250:VAL:HG13	24:QF:254:GLU:HB3	1.99	0.44
25:QG:54:ALA:HB3	25:QG:58:ARG:HB3	1.98	0.44
25:QK:176:SER:OG	25:QK:178:THR:O	2.36	0.44
25:QQ:359:LYS:HB3	25:QQ:359:LYS:HE2	1.74	0.44
25:RC:91:VAL:HG11	25:RC:116:VAL:HG23	1.98	0.44
24:RD:119:LEU:HD21	24:RD:156:ARG:HB3	1.99	0.44
24:RD:207:GLU:OE1	24:RD:304:LYS:NZ	2.49	0.44
25:RM:178:THR:HG22	25:RM:180:VAL:H	1.83	0.44
25:SI:247:ASN:O	25:SI:252:LYS:NZ	2.48	0.44
24:SL:101:ASN:ND2	24:SL:142:GLY:O	2.51	0.44
24:SL:209:ILE:HA	24:SL:212:ILE:HG22	1.99	0.44
25:SO:25:SER:HB2	25:SO:30:ILE:HB	1.99	0.44
32:T1:345:GLU:HA	32:T1:364:ARG:HA	2.00	0.44
25:TE:239:CYS:SG	25:TE:248:ALA:N	2.87	0.44
25:TG:73:MET:SD	25:TG:73:MET:N	2.90	0.44
25:TI:91:VAL:HG11	25:TI:116:VAL:HG12	1.98	0.44
25:TK:180:VAL:HG23	25:TK:184:ASN:HD21	1.82	0.44
25:UC:167:PHE:HZ	25:UC:236:ILE:HG13	1.82	0.44
25:UC:236:ILE:HD12	25:UC:368:ILE:HD11	1.99	0.44
25:UK:6:HIS:O	25:UK:63:ALA:HA	2.18	0.44
25:UO:284:LEU:HD13	25:UO:363:MET:HG2	1.98	0.44
24:VD:66:ILE:HD12	24:VD:68:LEU:HD23	1.99	0.44
25:VE:326:VAL:O	25:VE:330:MET:HG3	2.18	0.44
24:VJ:7:ILE:HG13	24:VJ:137:VAL:HA	1.98	0.44
24:VL:406:HIS:HA	24:VL:409:VAL:HG12	2.00	0.44
25:VM:164:MET:HB2	25:VM:197:ASP:H	1.81	0.44
24:WJ:167:LEU:HD23	24:WJ:252:ILE:HG23	1.98	0.44
25:WK:334:GLN:HG2	25:WK:341:PHE:HE2	1.82	0.44
24:WN:273:ALA:HB3	24:WN:375:VAL:HB	1.99	0.44
39:X2:96:VAL:HG23	39:X2:118:ASP:HB3	1.99	0.44
25:XE:314:SER:HB3	25:XE:368:ILE:HB	1.99	0.44
24:XL:338:LYS:HG2	24:XL:340:THR:HG22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:XN:96:LYS:HD2	25:XO:1:MET:HE1	2.00	0.44
25:XO:87:PRO:HB2	24:YP:280:LYS:HD3	2.00	0.44
40:Y0:446:GLU:N	40:Y1:445:SER:OG	2.51	0.44
40:Y4:190:PRO:HG3	40:Y4:220:PHE:CE1	2.52	0.44
40:Y4:246:ALA:HB1	40:Y4:257:PRO:HA	1.98	0.44
40:Y4:366:VAL:HG12	40:Y4:390:GLN:HG2	1.99	0.44
40:Y6:415:HIS:ND1	40:Y6:416:ARG:O	2.49	0.44
40:Y7:48:VAL:HG12	40:Y7:49:LYS:HG3	2.00	0.44
24:YD:387:ILE:HG23	24:YD:390:ARG:HH21	1.83	0.44
25:YE:20:PHE:HA	25:YE:230:SER:HB2	2.00	0.44
24:YH:223:THR:HG23	24:YH:225:THR:H	1.80	0.44
25:YK:184:ASN:OD1	25:YK:398:TYR:OH	2.31	0.44
24:ZD:28:HIS:HE1	24:ZD:49:PHE:HA	1.83	0.44
25:ZE:396:HIS:HA	25:ZE:399:THR:HG22	2.00	0.44
25:ZG:42:LEU:HD12	25:ZG:45:GLU:HG2	2.00	0.44
25:ZG:189:VAL:HA	25:ZG:192:LEU:HB2	1.99	0.44
25:ZG:212:PHE:HD1	24:ZH:326:LYS:HZ1	1.66	0.44
24:ZJ:164:LYS:HE2	24:ZJ:164:LYS:HB2	1.78	0.44
24:ZJ:177:VAL:HA	25:ZK:331:LEU:HD21	1.99	0.44
25:ZK:105:HIS:CD2	25:ZK:150:LEU:HD13	2.52	0.44
25:ZK:282:ARG:NH2	25:ZK:292:GLN:OE1	2.51	0.44
25:ZK:375:GLN:HA	25:ZK:378:PHE:HB2	2.00	0.44
25:ZM:145:SER:OG	25:ZM:188:SER:OG	2.27	0.44
24:ZN:273:ALA:HB3	24:ZN:375:VAL:H	1.82	0.44
2:1A:1441:SER:HA	2:1A:1448:MET:HE1	1.99	0.44
2:1A:1589:LYS:NZ	42:1A:2601:ADP:O3B	2.38	0.44
2:1A:1797:ARG:NH1	2:1A:1921:SER:OG	2.51	0.44
2:1B:1557:LEU:HD22	2:1B:1963:LEU:HB3	2.00	0.44
2:1B:1609:VAL:HG13	2:1B:1686:GLY:H	1.82	0.44
2:1B:2029:LEU:O	2:1B:2108:TYR:OH	2.24	0.44
2:1C:1801:LEU:HD12	2:1C:1904:ALA:HB2	2.00	0.44
4:2A:234:HIS:NE2	4:2A:254:LEU:O	2.46	0.44
13:7C:145:GLY:O	13:7C:161:PHE:N	2.49	0.44
13:7E:146:LEU:HA	13:7E:160:GLN:HA	1.99	0.44
15:9C:797:SER:CB	15:9C:814:TYR:O	2.65	0.44
18:C0:1166:GLU:HA	18:C0:1169:LYS:HB2	2.00	0.44
18:C3:594:LEU:HD21	18:C3:928:ALA:HB1	2.00	0.44
18:C3:707:GLU:HA	18:C3:710:VAL:HG22	1.99	0.44
18:C3:1350:ILE:HD11	18:C3:1380:LEU:HA	1.99	0.44
19:D3:142:LYS:HB3	19:D3:183:LEU:HD11	1.99	0.44
20:E1:376:LEU:HA	20:E1:376:LEU:HD23	1.78	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:G0:17:ARG:NH1	19:G0:52:ASP:OD2	2.50	0.44
19:G4:98:PHE:HA	19:G4:101:GLN:HG3	2.00	0.44
19:G5:197:HIS:HB2	19:G5:201:LEU:HD12	1.98	0.44
19:H1:355:ALA:O	19:H1:359:THR:HG23	2.18	0.44
19:H2:235:GLN:HG3	19:H2:238:LYS:HD2	2.00	0.44
19:H6:18:VAL:HA	19:H6:21:VAL:HG22	1.98	0.44
19:H7:179:PRO:HA	19:H7:184:LYS:HE2	1.99	0.44
19:J0:128:ASP:HA	19:J0:131:VAL:HG22	2.00	0.44
19:J0:226:LYS:HZ1	19:J0:259:CYS:HB3	1.83	0.44
19:J1:264:ASP:HB3	19:J1:267:VAL:HG22	1.99	0.44
19:J3:184:LYS:HE3	19:J3:217:LEU:HD21	1.99	0.44
19:K0:318:GLY:HA3	19:K0:359:THR:HG22	1.98	0.44
19:K2:97:ARG:HE	19:K2:98:PHE:HE1	1.66	0.44
19:L0:50:LEU:HD23	19:L0:87:GLN:HE22	1.83	0.44
24:NB:130:THR:OG1	24:NB:131:GLY:N	2.50	0.44
25:NC:184:ASN:OD1	25:NC:398:TYR:OH	2.28	0.44
25:NE:86:ARG:HG3	25:NE:88:ASP:H	1.82	0.44
25:NM:68:LEU:HD11	25:NM:147:MET:HE3	2.00	0.44
24:OF:327:ASP:HA	24:OF:330:ALA:HB3	2.00	0.44
25:OI:128:ASP:OD1	25:OI:128:ASP:N	2.48	0.44
24:OL:388:PHE:O	24:OL:392:ASP:N	2.47	0.44
24:ON:76:ASP:HA	24:ON:79:ARG:HB2	1.98	0.44
24:ON:260:VAL:HG23	24:ON:265:ILE:O	2.18	0.44
25:OQ:117:LEU:HA	25:OQ:120:VAL:HG12	2.00	0.44
24:PD:137:VAL:HG21	24:PD:154:LEU:HD21	1.99	0.44
25:PK:391:ARG:HG3	24:PL:346:TRP:CD1	2.53	0.44
24:PL:27:GLU:HG3	24:PL:243:ARG:HH12	1.83	0.44
25:PM:94:GLN:HA	25:PM:94:GLN:NE2	2.33	0.44
25:PQ:309:ARG:NH2	25:PQ:427:ASP:O	2.51	0.44
28:Q0:2270:LEU:HD22	28:Q0:2359:MET:HE1	1.99	0.44
28:Q1:2071:LEU:HD11	28:Q1:2132:LEU:HD23	2.00	0.44
28:Q1:2855:ALA:HB2	28:Q1:3079:VAL:HG11	1.98	0.44
25:QC:67:ASP:OD2	25:QC:72:THR:OG1	2.24	0.44
24:QD:159:VAL:HA	33:U0:68:ARG:HD3	2.00	0.44
24:QD:165:SER:HB2	24:QD:256:GLN:HE22	1.83	0.44
25:QE:113:ILE:HA	25:QE:116:VAL:HG22	2.00	0.44
25:QI:11:GLN:NE2	24:QJ:247:ALA:O	2.51	0.44
25:QI:174:LYS:HD2	25:QI:205:GLU:HG2	2.00	0.44
24:QJ:71:GLU:HG2	24:QJ:73:THR:HG22	1.99	0.44
24:QL:183:GLU:OE2	44:QL:501:GTP:O3'	2.35	0.44
24:QL:209:ILE:HA	24:QL:212:ILE:HG22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:RC:128:ASP:OD1	25:RC:129:CYS:N	2.49	0.44
24:RF:271:SER:N	24:RF:377:MET:O	2.44	0.44
24:RH:422:ARG:HA	24:RH:422:ARG:HD2	1.88	0.44
24:RJ:223:THR:HG1	25:RK:245:GLN:HE22	1.61	0.44
24:RL:27:GLU:HG3	24:RL:244:PHE:HZ	1.83	0.44
25:SC:285:THR:HB	25:SC:287:PRO:HD2	1.99	0.44
25:SE:28:HIS:HE1	25:SE:241:ARG:HH11	1.66	0.44
25:SG:239:CYS:SG	25:SG:248:ALA:N	2.87	0.44
25:SI:133:PHE:HB2	25:SI:164:MET:SD	2.57	0.44
25:SI:330:MET:HA	25:SI:333:VAL:HG22	1.99	0.44
24:SN:242:LEU:HD11	24:SN:252:ILE:HG12	2.00	0.44
24:TB:259:LEU:HD23	24:TB:268:MET:HG2	1.98	0.44
24:TF:2:ARG:NE	24:TF:242:LEU:O	2.47	0.44
24:TH:217:LEU:HD21	24:TH:275:ILE:HG22	1.98	0.44
24:TL:229:ARG:HD2	24:TL:363:VAL:HG11	2.00	0.44
24:TP:210:TYR:CZ	24:TP:227:LEU:HD11	2.53	0.44
25:UE:319:GLY:N	25:UE:354:CYS:O	2.47	0.44
25:UG:152:ILE:HG23	25:UG:164:MET:HG2	2.00	0.44
24:UL:139:ASN:O	24:UL:170:THR:HA	2.18	0.44
25:UO:8:GLN:HB2	25:UO:65:LEU:HD13	1.98	0.44
25:UO:211:CYS:HA	25:UO:215:LEU:HB2	1.99	0.44
24:VD:320:ARG:HA	24:VD:356:ASN:HB3	2.00	0.44
25:VE:272:PRO:HG2	25:VE:361:LEU:HD13	2.00	0.44
25:VG:294:TRP:CE2	25:VG:333:VAL:HG21	2.53	0.44
24:VH:155:GLU:HG2	24:VH:197:HIS:NE2	2.32	0.44
24:VH:406:HIS:CD2	25:VI:261:PRO:HG3	2.52	0.44
24:VJ:9:ILE:HD13	24:VJ:150:GLY:HA2	2.00	0.44
25:WA:68:LEU:HD13	25:WA:143:THR:HG23	1.98	0.44
25:WA:221:THR:HG23	25:WA:223:GLY:H	1.83	0.44
24:WB:77:GLU:HA	24:WB:80:THR:HG22	2.00	0.44
24:WD:10:GLY:O	24:WD:14:ILE:HG12	2.17	0.44
25:WE:67:ASP:OD1	25:WE:67:ASP:N	2.49	0.44
25:WE:321:MET:HE3	25:WE:321:MET:HB2	1.86	0.44
25:WI:176:SER:OG	25:WI:178:THR:O	2.35	0.44
24:WJ:395:PHE:HE2	24:WJ:422:ARG:HB2	1.82	0.44
25:WK:19:LYS:HA	25:WK:19:LYS:HD2	1.76	0.44
24:WL:7:ILE:HG22	24:WL:66:ILE:HG12	1.98	0.44
24:WN:320:ARG:O	24:WN:373:ARG:HA	2.16	0.44
39:X1:486:ARG:HB3	39:X1:582:LEU:HD11	1.98	0.44
39:X1:996:CYS:HA	39:X1:1044:THR:HA	1.99	0.44
25:XC:296:ALA:HB1	25:XC:305:PRO:HD2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:XI:330:MET:HA	25:XI:333:VAL:HG12	2.00	0.44
24:XJ:133:GLN:HG3	24:XJ:252:ILE:HB	2.00	0.44
24:XN:167:LEU:HD11	24:XN:255:PHE:HD2	1.83	0.44
25:XO:237:THR:HG23	25:XO:241:ARG:HH11	1.83	0.44
40:Y2:49:LYS:HD2	40:Y2:50:VAL:H	1.83	0.44
40:Y4:55:ILE:HG23	40:Y5:452:ASN:HB3	2.00	0.44
40:Y5:352:THR:OG1	40:Y5:380:ALA:O	2.34	0.44
24:YJ:262:TYR:HB2	24:YJ:265:ILE:HD12	2.00	0.44
25:YM:117:LEU:HA	25:YM:120:VAL:HB	2.00	0.44
25:YO:238:CYS:SG	25:YO:239:CYS:N	2.91	0.44
41:Z2:76:GLY:HA3	41:Z2:158:GLN:HA	2.00	0.44
25:ZC:36:TYR:OH	25:ZC:40:SER:O	2.36	0.44
25:ZC:100:ASN:HB3	25:ZC:103:LYS:HB3	1.98	0.44
25:ZK:178:THR:HG22	24:ZL:352:LYS:HE3	2.00	0.44
2:1A:1307:THR:HA	2:1A:1310:LEU:HG	1.99	0.44
2:1C:2059:LEU:HD11	2:1C:2091:LEU:HB2	2.00	0.44
2:1C:2182:GLU:HG2	2:1C:2252:TYR:CE2	2.53	0.44
2:1D:1408:ASP:OD1	2:1D:1413:ASN:ND2	2.51	0.44
2:1D:2029:LEU:HB2	2:1D:2093:ALA:HB3	2.00	0.44
14:8B:17:PRO:HG3	25:YM:360:GLY:HA2	2.00	0.44
14:8D:85:PRO:HG3	25:VC:87:PRO:HB3	2.00	0.44
17:B0:584:ALA:HA	17:B0:587:ILE:HD12	2.00	0.44
18:C0:602:PRO:O	43:C0:2001:ANP:O3G	2.36	0.44
18:C0:1289:VAL:O	18:C0:1293:GLN:HG2	2.17	0.44
18:C0:1367:LEU:HD21	18:C0:1459:ALA:HB1	2.00	0.44
18:C1:1197:PHE:HA	18:C1:1200:LEU:HG	1.99	0.44
18:C2:599:LEU:HB2	18:C2:826:VAL:HG12	1.98	0.44
18:C2:1454:ARG:HA	18:C2:1457:LEU:HG	2.00	0.44
18:C2:1829:LYS:HE2	18:C2:1829:LYS:HB2	1.76	0.44
19:D1:111:ALA:O	19:D1:155:HIS:NE2	2.43	0.44
20:E3:376:LEU:HD12	24:UN:96:LYS:HG3	1.99	0.44
19:G0:395:ASP:OD1	19:G0:396:LEU:N	2.50	0.44
19:G2:37:LEU:HG	19:G2:42:ALA:HB2	2.00	0.44
19:G3:156:ASN:OD1	19:G3:157:ALA:N	2.51	0.44
19:G3:290:VAL:HG12	19:G3:295:VAL:HG13	1.99	0.44
19:G4:317:LEU:HD11	19:G4:340:LEU:HD11	1.99	0.44
19:H2:139:PRO:HA	19:H2:142:LYS:HG2	2.00	0.44
19:J0:192:SER:HA	19:J0:235:GLN:NE2	2.32	0.44
19:J1:91:SER:OG	19:J1:95:GLN:OE1	2.36	0.44
19:J2:118:ALA:O	19:J2:122:ILE:HG12	2.18	0.44
19:K2:33:ASN:O	19:K2:33:ASN:ND2	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:K3:311:LEU:HD22	19:K3:315:MET:HE1	2.00	0.44
19:L1:108:ARG:HE	19:L1:147:TRP:HB3	1.83	0.44
19:L3:276:ARG:NH2	19:L3:312:PRO:HA	2.32	0.44
22:M1:724:LEU:HD12	22:M1:724:LEU:HA	1.87	0.44
23:N0:43:LEU:HD12	23:N0:87:LYS:HB2	2.00	0.44
23:N1:19:LYS:NZ	24:UP:420:GLU:HB2	2.33	0.44
23:N1:20:GLN:HE22	24:UP:264:ARG:HD2	1.81	0.44
23:N2:96:SER:HA	23:N2:99:VAL:HG12	1.99	0.44
24:ND:50:ASN:O	24:ND:50:ASN:ND2	2.51	0.44
25:NE:234:SER:O	25:NE:241:ARG:NH2	2.50	0.44
25:NG:173:PRO:HD3	25:NG:380:ARG:HH22	1.83	0.44
24:NH:262:TYR:HB2	24:NH:265:ILE:HG12	2.00	0.44
24:NN:405:VAL:HG13	24:NN:418:PHE:HE2	1.82	0.44
26:O0:1121:MET:N	26:O0:1427:ALA:O	2.43	0.44
26:O1:322:LEU:HA	26:O1:325:VAL:HB	1.99	0.44
25:OE:224:ASP:HA	25:OE:227:HIS:CD2	2.49	0.44
24:OF:224:TYR:CZ	25:OG:323:THR:HG21	2.53	0.44
25:OG:248:ALA:HA	25:OG:252:LYS:HG2	2.00	0.44
25:OM:235:GLY:HA3	25:OM:366:THR:HG21	1.99	0.44
24:OP:3:GLU:H	24:OP:133:GLN:HG2	1.83	0.44
25:PG:207:LEU:HD11	25:PG:229:ILE:HD11	1.99	0.44
25:PM:256:ASN:HD22	25:PM:350:LYS:HG3	1.82	0.44
25:PQ:298:ASN:O	25:PQ:298:ASN:ND2	2.46	0.44
28:Q0:55:TYR:HB3	28:Q0:59:ARG:NH2	2.33	0.44
28:Q0:130:LEU:HD11	28:Q0:142:THR:HG22	1.98	0.44
28:Q0:739:TRP:HE1	28:Q0:899:GLN:HE21	1.64	0.44
28:Q0:791:ARG:HG3	28:Q0:795:ARG:HH21	1.83	0.44
28:Q0:1391:PRO:HA	28:Q0:1392:PRO:HD3	1.86	0.44
28:Q0:2181:TRP:HZ3	28:Q0:2201:LEU:HD12	1.82	0.44
28:Q0:3103:VAL:HG13	28:Q0:3202:LEU:HD11	1.99	0.44
28:Q1:71:VAL:HG12	28:Q1:75:LYS:NZ	2.32	0.44
24:QF:77:GLU:HA	24:QF:80:THR:HG22	1.99	0.44
25:QK:406:MET:O	25:QK:409:THR:OG1	2.25	0.44
24:QP:25:CYS:O	24:QP:30:ILE:N	2.51	0.44
24:QP:102:ASN:ND2	24:QP:411:GLU:OE2	2.51	0.44
29:R0:187:TRP:CZ2	29:R0:191:ILE:HD11	2.53	0.44
25:RE:21:TRP:CZ3	25:RE:61:PRO:HB3	2.53	0.44
25:RE:328:GLU:HA	25:RE:331:LEU:HB2	1.98	0.44
24:RH:271:SER:HA	24:RH:302:MET:HG3	2.00	0.44
24:RH:343:PHE:HZ	24:RH:351:PHE:HE1	1.64	0.44
25:RI:67:ASP:OD1	25:RI:67:ASP:N	2.49	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:RL:167:LEU:HD13	24:RL:200:VAL:HB	2.00	0.44
25:RO:103:LYS:HE2	25:RO:103:LYS:HB2	1.82	0.44
24:SB:71:GLU:OE2	24:SB:73:THR:HG22	2.17	0.44
25:SC:105:HIS:CE1	25:SC:150:LEU:HD12	2.53	0.44
25:SE:54:ALA:HA	25:TE:283:ALA:HB2	1.99	0.44
24:SF:89:PRO:HB2	24:TF:280:LYS:HE2	1.99	0.44
24:SH:9:ILE:HG13	24:SH:139:ASN:HB3	2.00	0.44
24:SJ:317:LEU:O	24:SJ:354:GLY:N	2.51	0.44
25:SK:216:LYS:O	25:SK:276:ARG:NH1	2.50	0.44
25:SO:2:ARG:HH21	25:SO:240:LEU:HA	1.83	0.44
25:TC:397:TRP:CZ2	24:TD:256:GLN:HB3	2.53	0.44
24:TD:122:ILE:HD13	24:TD:122:ILE:HA	1.85	0.44
24:TF:71:GLU:HG3	24:TF:73:THR:HG22	2.00	0.44
24:TF:179:THR:OG1	25:TG:351:SER:OG	2.32	0.44
24:TH:141:VAL:HG13	24:TH:170:THR:HB	2.00	0.44
24:TH:210:TYR:OH	25:TI:327:ASP:OD2	2.25	0.44
24:TH:298:PRO:HA	24:TH:301:MET:HG2	1.99	0.44
25:TM:260:PHE:HB2	25:TM:263:LEU:HD13	1.99	0.44
24:TP:90:GLU:HG2	24:TP:121:ARG:NH1	2.32	0.44
24:TP:195:LEU:HD21	24:TP:428:LEU:HD12	2.00	0.44
25:UC:313:ALA:HB1	25:UC:367:PHE:HE1	1.83	0.44
24:UF:231:ILE:O	24:UF:235:ILE:HG12	2.18	0.44
24:UH:273:ALA:HB2	24:UH:295:ALA:HB2	2.00	0.44
25:UI:44:LEU:HD23	25:UI:47:ILE:HG13	1.99	0.44
25:UM:385:PHE:HE2	25:UM:412:GLU:HB2	1.83	0.44
24:UN:288:VAL:HG13	24:UN:319:TYR:HE2	1.82	0.44
25:UO:391:ARG:HG3	24:UP:346:TRP:CD1	2.53	0.44
24:VB:70:LEU:HA	24:VB:95:GLY:HA3	1.98	0.44
25:VE:313:ALA:HB3	25:VE:349:VAL:HG22	2.00	0.44
24:VF:207:GLU:HA	24:VF:210:TYR:HD2	1.82	0.44
24:VN:4:VAL:HB	24:VN:52:PHE:HE2	1.83	0.44
25:VO:396:HIS:HA	25:VO:399:THR:HG22	1.99	0.44
24:WB:269:LEU:HD22	24:WB:301:MET:HE2	2.00	0.44
24:WH:335:ILE:HG23	24:WH:341:ILE:HD11	1.99	0.44
24:WJ:136:LEU:HD13	24:WJ:235:ILE:HD11	2.00	0.44
25:WM:416:ASN:HA	25:WM:419:VAL:HG22	1.99	0.44
39:X0:710:ALA:HA	39:X0:770:LEU:HA	1.99	0.44
39:X3:149:SER:HA	39:X3:171:ALA:H	1.83	0.44
25:XC:207:LEU:HD11	25:XC:229:ILE:HD11	1.99	0.44
24:XF:194:LEU:O	24:XF:198:THR:OG1	2.34	0.44
24:XJ:384:ILE:HD12	24:XJ:387:ILE:HD12	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:XL:317:LEU:HB3	24:XL:319:TYR:HE1	1.83	0.44
40:Y4:188:PRO:HD2	40:Y4:454:LEU:HD21	1.99	0.44
40:Y4:363:ASP:HA	40:Y4:366:VAL:HG13	2.00	0.44
40:Y6:335:SER:HA	40:Y6:358:GLN:HB3	2.00	0.44
25:YE:164:MET:HB2	25:YE:197:ASP:H	1.83	0.44
24:YH:222:PRO:HD2	25:YI:324:LYS:HE3	1.98	0.44
25:YI:21:TRP:CH2	25:YI:50:TYR:HB3	2.53	0.44
25:YI:404:ASP:OD2	25:YI:405:GLU:N	2.51	0.44
24:YJ:297:GLU:HG3	24:YJ:299:ALA:H	1.82	0.44
24:YN:31:GLN:NE2	24:YN:35:GLN:O	2.50	0.44
25:YO:128:ASP:OD1	25:YO:129:CYS:N	2.49	0.44
24:YP:271:SER:N	24:YP:377:MET:O	2.45	0.44
41:Z0:324:GLU:OE2	41:Z0:328:ARG:NH1	2.50	0.44
41:Z2:96:ARG:NH1	41:Z2:96:ARG:HA	2.32	0.44
24:ZF:203:MET:HB2	24:ZF:269:LEU:HA	1.98	0.44
25:ZI:226:ASN:OD1	46:ZI:501:GDP:N1	2.50	0.44
2:1B:1557:LEU:HB3	2:1B:1963:LEU:HD22	1.99	0.44
2:1B:1922:TRP:CZ3	18:C1:1928:ARG:HG3	2.53	0.44
2:1B:1923:ARG:HG3	2:1B:1924:ARG:H	1.82	0.44
2:1B:2056:ALA:HB2	18:C1:1588:ALA:HB1	2.00	0.44
2:1D:1429:ARG:NH1	2:1D:1430:ASP:OD2	2.51	0.44
2:1D:2492:ALA:HB1	18:C3:1167:GLU:HG2	1.99	0.44
4:2A:290:VAL:HG13	4:2A:291:PHE:HD1	1.82	0.44
4:2A:314:ARG:HG2	4:2A:356:GLU:HB3	2.00	0.44
14:8C:129:LYS:HE2	14:8C:131:ILE:HD11	1.98	0.44
15:9B:937:GLY:H	15:9B:957:PRO:HA	1.83	0.44
18:C0:1925:VAL:HG13	18:C0:1928:ARG:HD3	2.00	0.44
18:C1:622:LEU:HD21	18:C1:716:GLY:HA3	1.99	0.44
18:C1:642:THR:HG22	18:C1:644:VAL:HG23	2.00	0.44
18:C1:1787:LYS:O	18:C1:1791:VAL:HB	2.17	0.44
18:C2:1311:HIS:HA	18:C2:1314:TRP:CD1	2.53	0.44
18:C3:76:THR:HG21	18:C3:155:THR:HB	1.99	0.44
19:D1:21:VAL:HG22	19:D1:49:LEU:HD13	1.99	0.44
19:D1:235:GLN:HA	19:D1:238:LYS:NZ	2.33	0.44
19:D3:191:LEU:HD11	19:D3:232:ALA:HB1	2.00	0.44
20:E3:38:PRO:HB2	20:E3:135:THR:HG22	2.00	0.44
20:E3:51:ARG:HA	20:E3:56:TRP:HB3	1.99	0.44
21:F1:10:LEU:HD12	21:F1:103:GLN:HG3	2.00	0.44
21:F1:22:LYS:HG2	21:F1:23:TYR:CD1	2.53	0.44
21:F1:145:ASP:HB2	21:F1:147:LYS:HE2	2.00	0.44
21:F3:135:ARG:HE	21:F3:136:ALA:H	1.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:G0:84:ILE:HG22	19:G0:88:LEU:HD23	1.99	0.44
19:G3:227:ARG:NH2	32:T1:589:SER:OG	2.34	0.44
19:H6:369:ASP:OD1	19:H6:369:ASP:N	2.50	0.44
19:I0:107:LEU:HD23	19:I0:107:LEU:HA	1.85	0.44
19:J0:179:PRO:HA	19:J0:184:LYS:HE2	2.00	0.44
19:J2:364:GLY:HA3	19:J2:404:LEU:HD23	1.98	0.44
19:K3:37:LEU:HD13	19:K3:68:LEU:HD21	2.00	0.44
19:L1:58:GLN:HG3	19:L1:95:GLN:HE22	1.83	0.44
19:L3:13:TYR:O	19:L3:17:ARG:HG2	2.18	0.44
19:L3:262:PHE:HA	19:L3:263:PRO:HD3	1.86	0.44
25:NC:207:LEU:HD11	25:NC:229:ILE:HD11	2.00	0.44
24:ND:25:CYS:O	24:ND:30:ILE:N	2.51	0.44
25:NE:336:LYS:HD3	25:NE:336:LYS:HA	1.78	0.44
24:NH:284:GLU:HG2	24:ZH:88:HIS:CE1	2.53	0.44
25:NK:27:GLU:O	25:NK:43:GLN:NE2	2.50	0.44
25:NM:213:ARG:HH21	25:NM:297:LYS:HG3	1.82	0.44
25:NM:336:LYS:HD3	25:NM:336:LYS:HA	1.78	0.44
24:NN:71:GLU:HB2	24:NN:98:ASP:HB3	2.00	0.44
25:NO:406:MET:O	25:NO:409:THR:OG1	2.27	0.44
25:OE:97:ALA:HB3	25:OE:143:THR:HG22	1.98	0.44
24:OF:147:SER:HB2	24:OF:190:SER:HB3	1.98	0.44
24:OH:14:ILE:HD11	24:OH:74:VAL:HG13	1.99	0.44
25:OI:18:ALA:HB2	25:OI:76:VAL:HG23	2.00	0.44
25:OI:20:PHE:HA	25:OI:230:SER:HB2	1.98	0.44
24:OJ:233:GLN:HE21	24:OJ:368:LEU:HD12	1.83	0.44
25:PE:263:LEU:O	25:PE:370:ASN:ND2	2.43	0.44
24:PF:14:ILE:O	24:PF:18:ASN:N	2.41	0.44
24:PJ:273:ALA:HB3	24:PJ:375:VAL:HB	1.99	0.44
25:PK:421:GLU:HA	25:PK:424:GLN:HB3	1.99	0.44
28:Q1:651:ILE:HD11	28:Q1:668:LEU:HD22	1.99	0.44
24:QL:51:THR:HG23	24:QL:52:PHE:HD1	1.83	0.44
24:QL:76:ASP:HA	24:QL:79:ARG:HB2	2.00	0.44
25:QM:117:LEU:HA	25:QM:120:VAL:HG12	1.99	0.44
25:QM:416:ASN:HA	25:QM:419:VAL:HG12	2.00	0.44
24:QP:195:LEU:HD21	24:QP:264:ARG:HH21	1.83	0.44
24:RD:68:LEU:HD11	24:RD:153:LEU:HD22	1.99	0.44
24:RJ:259:LEU:HD21	24:RJ:316:CYS:HB2	1.99	0.44
24:RL:185:TYR:OH	24:RL:403:ALA:O	2.31	0.44
24:RL:306:ASP:HB3	24:RL:309:HIS:HD2	1.82	0.44
25:SE:372:THR:O	25:SE:426:GLN:NE2	2.50	0.44
24:SF:221:ARG:NH1	25:SG:325:GLU:OE2	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:SJ:242:LEU:HD11	24:SJ:252:ILE:HB	2.00	0.44
25:SM:247:ASN:C	25:SM:247:ASN:HD22	2.17	0.44
24:SN:210:TYR:CD1	25:SO:324:LYS:HD3	2.52	0.44
25:TC:165:LEU:HD11	25:TC:250:LEU:HD11	1.98	0.44
25:TE:220:PRO:HG2	24:TF:326:LYS:HE3	1.99	0.44
25:TE:234:SER:O	25:TE:241:ARG:NH2	2.51	0.44
24:TF:384:ILE:HD12	24:TF:387:ILE:HD12	2.00	0.44
24:TH:94:SER:OG	24:TH:95:GLY:N	2.51	0.44
24:TP:216:SER:OG	24:TP:275:ILE:O	2.30	0.44
24:UD:6:SER:O	24:UD:65:CYS:HA	2.18	0.44
24:UH:274:PRO:HD3	24:UH:291:ILE:HB	2.00	0.44
25:UK:31:ASP:OD2	25:UK:34:GLY:N	2.43	0.44
24:UL:195:LEU:HD13	24:UL:264:ARG:HH21	1.83	0.44
24:UL:244:PHE:HB2	24:UL:356:ASN:HD21	1.83	0.44
25:UO:207:LEU:HD21	25:UO:229:ILE:HG13	2.00	0.44
25:UO:396:HIS:HA	25:UO:399:THR:HG22	2.00	0.44
24:VB:2:ARG:NE	24:VB:242:LEU:O	2.48	0.44
25:VE:112:LEU:HD23	25:VE:147:MET:HE1	1.99	0.44
24:VH:169:PHE:HZ	24:VH:238:LEU:HD13	1.83	0.44
25:VI:267:MET:HE2	25:VI:305:PRO:HG3	1.98	0.44
25:VK:91:VAL:HG13	25:VK:116:VAL:HG12	2.00	0.44
25:VK:122:LYS:HA	25:VK:122:LYS:HD2	1.72	0.44
25:VK:345:ILE:O	25:VK:348:ASN:ND2	2.51	0.44
24:VL:14:ILE:HD12	24:VL:67:PHE:HB3	2.00	0.44
24:VN:402:ARG:NH1	24:VN:415:GLU:OE2	2.51	0.44
25:WA:113:ILE:HG13	25:WA:150:LEU:HD23	2.00	0.44
25:WA:128:ASP:OD1	25:WA:129:CYS:N	2.50	0.44
24:WD:116:ASP:OD1	24:WD:116:ASP:N	2.50	0.44
25:WE:276:ARG:HA	25:WE:276:ARG:HD2	1.71	0.44
25:WG:8:GLN:HB2	25:WG:65:LEU:HD13	2.00	0.44
24:WH:210:TYR:CE2	24:WH:227:LEU:HD11	2.53	0.44
25:WI:372:THR:HA	25:WI:422:TYR:HD1	1.83	0.44
24:WJ:194:LEU:HD23	24:WJ:266:HIS:HE1	1.83	0.44
24:XB:311:LYS:N	24:XB:382:THR:OG1	2.47	0.44
24:XB:315:CYS:O	24:XB:352:LYS:N	2.47	0.44
24:XD:2:ARG:HG3	24:XD:242:LEU:HB3	1.99	0.44
24:XF:305:CYS:HB2	24:XF:383:ALA:HB1	2.00	0.44
24:XJ:105:ARG:HA	24:XJ:109:THR:HB	1.99	0.44
25:XM:330:MET:HB3	25:XM:349:VAL:HG21	2.00	0.44
40:Y4:367:THR:HG22	40:Y4:390:GLN:HB2	1.99	0.44
40:Y4:439:THR:HG23	40:Y4:451:TYR:CE2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:Y7:193:ASN:HD21	40:Y7:196:ASN:HD22	1.66	0.44
24:YB:245:ASP:OD1	24:YB:246:GLY:N	2.51	0.44
24:YF:173:PRO:HB3	24:YF:183:GLU:HG3	2.00	0.44
24:YN:101:ASN:ND2	25:YO:256:ASN:HD21	2.13	0.44
24:YN:313:MET:HB2	24:YN:380:ASN:HB3	1.99	0.44
25:YO:105:HIS:HB3	25:YO:106:TYR:HD1	1.82	0.44
25:YO:377:MET:HG3	25:YO:380:ARG:HH22	1.82	0.44
41:Z0:193:ASP:OD2	41:Z0:199:ARG:NH2	2.51	0.44
41:Z1:241:GLU:HB3	41:Z1:270:ARG:HH12	1.83	0.44
41:Z2:106:VAL:HG22	41:Z2:115:VAL:HG12	1.99	0.44
25:ZC:226:ASN:H	25:ZC:226:ASN:HD22	1.66	0.44
24:ZD:231:ILE:O	24:ZD:235:ILE:HG12	2.18	0.44
25:ZE:324:LYS:O	25:ZE:328:GLU:N	2.29	0.44
24:ZH:322:ASP:OD1	24:ZH:322:ASP:N	2.44	0.44
25:ZK:48:ASN:O	25:ZK:62:ARG:NH2	2.48	0.44
25:ZK:171:PRO:HG2	25:ZK:185:ALA:HB2	2.00	0.44
24:ZL:67:PHE:HB2	24:ZL:92:LEU:HD13	2.00	0.44
25:ZM:290:THR:HG21	25:ZM:329:GLN:HB3	2.00	0.44
25:ZO:232:VAL:O	25:ZO:236:ILE:HG12	2.18	0.44
2:1A:1334:GLU:HG2	2:1A:1337:ARG:HH12	1.83	0.43
2:1A:1521:GLN:HB3	2:1A:1523:PRO:HD2	2.00	0.43
2:1A:2203:ALA:HB2	18:C0:1749:GLN:NE2	2.34	0.43
2:1D:71:LYS:HE3	2:1D:76:LEU:HA	2.00	0.43
2:1D:1242:MET:HB2	2:1D:1345:VAL:HG23	2.00	0.43
4:2A:817:ASN:O	4:2A:846:LEU:CA	2.62	0.43
10:4E:31:ILE:O	10:4E:67:ILE:N	2.49	0.43
14:8C:162:GLU:H	14:8C:162:GLU:HG3	1.64	0.43
15:9D:932:LEU:HA	15:9D:961:GLY:HA2	1.99	0.43
18:C0:795:LEU:HD13	18:C0:813:VAL:HA	2.00	0.43
18:C1:606:LYS:HE2	18:C1:768:ASP:HB2	2.00	0.43
18:C1:836:LEU:HD13	18:C1:883:ILE:HD13	1.99	0.43
18:C1:1925:VAL:O	18:C1:1928:ARG:HG2	2.17	0.43
18:C2:400:GLU:HA	18:C2:403:ARG:HG2	1.99	0.43
18:C2:779:LEU:HA	18:C2:782:ARG:HG2	1.99	0.43
18:C2:1375:ALA:O	18:C2:1379:LYS:HG2	2.17	0.43
18:C2:1634:PRO:HB2	18:C2:1637:ALA:HB2	2.00	0.43
19:D5:314:ILE:HG21	19:D5:356:THR:HA	1.99	0.43
19:D6:26:GLU:HA	19:D6:29:LYS:HD3	2.00	0.43
19:D7:235:GLN:HG3	19:D7:238:LYS:NZ	2.32	0.43
20:E1:437:ASP:OD1	20:E1:438:THR:N	2.44	0.43
19:G1:47:ARG:NH1	19:G1:82:ASN:O	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:G2:185:ARG:HD2	19:G2:186:ILE:HD13	1.99	0.43
19:G3:183:LEU:HD23	19:G3:183:LEU:HA	1.83	0.43
19:H1:97:ARG:HG3	19:H1:138:ASP:OD2	2.18	0.43
19:H6:70:ASN:O	19:H6:112:ARG:NH2	2.51	0.43
19:H6:170:PRO:HA	19:H6:173:VAL:HG22	1.99	0.43
19:I0:136:GLU:HG2	19:I0:137:PHE:H	1.83	0.43
19:J0:13:TYR:CE2	19:J0:17:ARG:HD3	2.53	0.43
19:J1:260:LEU:HD21	19:J1:301:TYR:HB2	1.99	0.43
19:J1:358:TRP:HE3	19:J1:396:LEU:HD11	1.84	0.43
19:J3:395:ASP:OD1	19:J3:396:LEU:N	2.51	0.43
19:K2:264:ASP:HB3	19:K2:267:VAL:HG22	1.99	0.43
19:L2:322:ALA:HA	19:L2:365:ARG:HH22	1.82	0.43
19:L2:428:SER:HA	19:L2:431:LYS:HE2	2.00	0.43
19:L3:143:GLU:HB2	19:L3:186:ILE:HG21	2.00	0.43
22:M0:830:GLU:O	28:Q0:622:GLN:NE2	2.48	0.43
25:NG:178:THR:HA	24:NH:352:LYS:HD2	1.98	0.43
24:NL:200:VAL:HG23	24:NL:256:GLN:HG3	2.00	0.43
24:NN:367:ASP:OD1	24:NN:367:ASP:N	2.51	0.43
25:NO:173:PRO:HD2	25:NO:174:LYS:H	1.83	0.43
25:OC:33:THR:HG23	25:OC:35:THR:HG23	2.00	0.43
25:OC:266:PHE:CD1	25:OC:370:ASN:HB2	2.53	0.43
24:OF:97:GLU:OE2	24:OF:105:ARG:NH2	2.44	0.43
25:OG:173:PRO:HB3	25:OG:380:ARG:NE	2.33	0.43
25:OK:248:ALA:HA	25:OK:252:LYS:HG3	2.00	0.43
25:PC:135:VAL:HG11	25:PC:152:ILE:HD11	2.00	0.43
25:PM:130:LEU:O	25:PM:162:ARG:NH2	2.45	0.43
25:PM:176:SER:OG	25:PM:178:THR:O	2.36	0.43
24:PN:157:LEU:HB3	24:PN:166:LYS:HE2	1.99	0.43
24:PN:274:PRO:HD3	24:PN:291:ILE:HB	1.99	0.43
28:Q0:2271:THR:HA	28:Q0:2362:ARG:HH22	1.81	0.43
28:Q0:3195:LYS:HE2	28:Q0:3208:VAL:HG21	1.99	0.43
28:Q1:1074:ASP:OD1	28:Q1:1200:LYS:NZ	2.36	0.43
28:Q1:1515:LEU:HD11	28:Q1:1625:HIS:CD2	2.53	0.43
28:Q1:3117:VAL:HG11	28:Q1:3193:LEU:HD21	2.00	0.43
25:QI:21:TRP:HH2	25:QI:50:TYR:HB3	1.83	0.43
24:QJ:205:ASP:HB3	24:QJ:303:VAL:HA	1.99	0.43
24:QL:156:ARG:HD2	24:QL:156:ARG:HA	1.71	0.43
25:RE:270:PHE:HD1	25:RE:366:THR:HG22	1.83	0.43
25:RI:46:ARG:HA	25:RI:46:ARG:HD3	1.73	0.43
25:RK:7:ILE:O	25:RK:135:VAL:HA	2.17	0.43
24:RL:275:ILE:HG13	24:RL:368:LEU:HD11	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:SF:172:TYR:CD1	24:SF:173:PRO:HD2	2.53	0.43
24:SN:316:CYS:HA	24:SN:352:LYS:HB3	1.98	0.43
25:SO:7:ILE:HB	25:SO:135:VAL:HG23	2.00	0.43
25:TM:215:LEU:HB3	25:TM:217:LEU:HG	2.00	0.43
24:TN:180:ALA:HB3	24:TN:183:GLU:HG3	2.00	0.43
24:UB:238:LEU:HD23	24:UB:238:LEU:HA	1.87	0.43
24:UD:132:LEU:HD22	24:UD:164:LYS:HE2	1.99	0.43
25:UI:259:PRO:HG2	25:UI:311:LEU:HD23	1.99	0.43
25:UM:176:SER:HB2	24:UN:349:THR:HG23	2.00	0.43
25:UO:210:ILE:O	25:UO:214:THR:OG1	2.31	0.43
24:VB:136:LEU:HD13	24:VB:235:ILE:HD11	2.00	0.43
24:VJ:402:ARG:NH1	24:VJ:415:GLU:OE2	2.51	0.43
25:WA:273:LEU:O	25:WA:292:GLN:NE2	2.37	0.43
24:WD:406:HIS:HA	24:WD:409:VAL:HG22	1.99	0.43
25:WE:204:ASN:O	25:WE:208:TYR:N	2.43	0.43
24:WH:103:PHE:HB3	24:WH:408:TYR:HE1	1.81	0.43
24:WJ:286:LEU:O	24:WJ:373:ARG:NH1	2.42	0.43
24:WL:213:CYS:HB3	24:WL:222:PRO:HG2	2.00	0.43
25:XA:222:PHE:HD2	24:XB:247:ALA:HB1	1.82	0.43
24:XB:304:LYS:HD2	24:XB:304:LYS:HA	1.80	0.43
25:XG:164:MET:HB2	25:XG:197:ASP:H	1.83	0.43
24:XJ:222:PRO:HG2	25:XK:324:LYS:HE3	1.99	0.43
24:XN:217:LEU:HG	24:XN:275:ILE:HG22	1.99	0.43
40:Y5:55:ILE:HG13	40:Y5:63:THR:HG23	2.00	0.43
24:YB:33:ASP:O	24:YB:60:LYS:NZ	2.51	0.43
24:YH:136:LEU:HB3	24:YH:138:PHE:HE1	1.83	0.43
24:YH:288:VAL:HG13	24:YH:319:TYR:HE2	1.82	0.43
25:YI:148:GLY:O	25:YI:152:ILE:HG12	2.18	0.43
25:YK:34:GLY:HA3	25:YK:58:ARG:HD3	2.00	0.43
24:YL:219:ILE:HD12	24:YL:222:PRO:HB3	2.00	0.43
24:YL:363:VAL:HG23	24:YL:366:GLY:HA3	1.99	0.43
24:YN:311:LYS:H	24:YN:382:THR:HG1	1.60	0.43
24:YP:203:MET:HB2	24:YP:269:LEU:HA	1.99	0.43
41:Z1:186:ALA:HB1	41:Z1:369:ILE:HD11	2.00	0.43
25:ZC:294:TRP:CG	25:ZC:333:VAL:HG21	2.52	0.43
24:ZD:9:ILE:HD11	24:ZD:153:LEU:HD23	1.99	0.43
24:ZD:73:THR:HG23	25:ZE:2:ARG:HH12	1.83	0.43
24:ZF:259:LEU:HD23	24:ZF:268:MET:HG2	2.00	0.43
25:ZG:294:TRP:CD1	25:ZG:333:VAL:HG11	2.53	0.43
24:ZH:5:ILE:HD13	24:ZH:64:ARG:HB3	2.00	0.43
24:ZH:101:ASN:HB3	24:ZH:186:ASN:HD21	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:ZI:272:PRO:HG3	25:ZI:364:SER:HA	2.00	0.43
25:ZI:275:SER:OG	25:ZI:276:ARG:N	2.51	0.43
24:ZJ:276:ILE:HD12	24:ZJ:281:ALA:HA	2.00	0.43
25:ZK:287:PRO:HA	25:ZK:329:GLN:HG3	2.00	0.43
25:ZK:305:PRO:HA	25:ZK:373:ALA:HB2	2.00	0.43
24:ZL:254:GLU:OE1	24:ZL:352:LYS:NZ	2.45	0.43
2:1A:1908:VAL:HB	18:C0:1635:LEU:HD12	2.00	0.43
2:1B:1314:ASP:OD1	2:1B:1315:CYS:N	2.50	0.43
2:1B:2109:CYS:SG	2:1B:2110:LEU:N	2.91	0.43
2:1B:2155:VAL:HG13	2:1B:2301:LEU:HB2	1.99	0.43
2:1C:2085:SER:OG	2:1C:2086:GLY:N	2.51	0.43
2:1D:1537:THR:HG23	2:1D:1982:LEU:HD22	2.00	0.43
4:2B:224:GLU:OE2	25:PI:307:HIS:NE2	2.46	0.43
13:7C:145:GLY:N	13:7C:161:PHE:O	2.51	0.43
14:8A:244:LEU:HA	14:8A:245:PRO:HD3	1.89	0.43
14:8D:72:ARG:NH1	24:WD:46:ASP:OD1	2.51	0.43
15:9B:766:HIS:O	15:9B:770:ILE:N	2.48	0.43
18:C0:1311:HIS:HA	18:C0:1314:TRP:CD1	2.53	0.43
18:C2:1801:ARG:HE	18:C2:1802:ALA:H	1.66	0.43
18:C3:24:ASP:OD1	18:C3:24:ASP:N	2.46	0.43
18:C3:133:GLU:HG3	19:D2:7:LEU:HD11	2.00	0.43
18:C3:1925:VAL:HG22	18:C3:1928:ARG:HH11	1.83	0.43
18:C4:104:ILE:HA	18:C4:107:THR:HG22	2.00	0.43
19:D0:45:LEU:HD12	19:D1:13:TYR:HE2	1.83	0.43
19:D1:145:SER:O	19:D1:148:THR:OG1	2.26	0.43
19:D2:196:LYS:O	19:D2:239:HIS:NE2	2.46	0.43
19:D4:63:LEU:HD23	19:D4:105:PHE:HD2	1.83	0.43
19:D4:170:PRO:HA	19:D4:173:VAL:HG22	2.01	0.43
19:D5:222:ASP:H	19:D5:226:LYS:HE2	1.83	0.43
21:F0:183:VAL:HA	21:F0:184:PRO:HD3	1.89	0.43
21:F1:24:LYS:HB2	21:F1:24:LYS:HE3	1.86	0.43
19:G3:338:PRO:HA	19:G3:341:VAL:HG22	2.00	0.43
19:G3:384:VAL:HG11	19:G3:435:GLU:HA	2.00	0.43
19:G5:122:ILE:HG12	19:G5:127:LEU:HD21	2.00	0.43
19:H1:12:ARG:HH12	19:H1:16:GLU:HB2	1.83	0.43
19:H2:189:SER:HB2	19:H2:228:GLN:HE21	1.83	0.43
19:H2:227:ARG:HH11	19:H2:266:PHE:HB2	1.83	0.43
19:H3:134:LEU:HD22	19:H3:171:LEU:HB3	1.99	0.43
19:H4:114:SER:OG	19:H4:116:GLU:OE1	2.36	0.43
19:H7:74:ASP:N	19:H7:74:ASP:OD1	2.50	0.43
19:H7:97:ARG:HA	19:H7:100:LYS:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:H7:276:ARG:HB3	19:H7:316:ALA:HB2	2.00	0.43
19:I0:111:ALA:HB2	19:I0:121:VAL:HG21	2.00	0.43
19:I0:369:ASP:OD1	19:I0:369:ASP:N	2.50	0.43
19:J2:399:LYS:HD3	19:J2:399:LYS:HA	1.72	0.43
19:J3:398:THR:HG22	19:J3:401:ARG:HH12	1.82	0.43
19:K0:238:LYS:HB3	19:K0:277:GLU:HG3	2.00	0.43
19:K2:184:LYS:HB2	19:K2:185:ARG:NH1	2.34	0.43
19:K3:156:ASN:OD1	19:K3:157:ALA:N	2.46	0.43
19:L3:183:LEU:HA	19:L3:186:ILE:HG22	2.00	0.43
19:L3:308:ASN:HA	19:L3:352:LEU:HD11	1.99	0.43
23:N3:62:LEU:HD13	23:N3:88:LEU:HD11	2.00	0.43
24:NB:151:SER:O	24:NB:155:GLU:HG2	2.18	0.43
25:NM:17:GLY:HA2	25:NM:20:PHE:HB3	2.00	0.43
25:NM:167:PHE:CE2	25:NM:200:MET:HG3	2.53	0.43
25:OE:253:LEU:HD11	25:OE:316:LEU:HD21	2.00	0.43
25:OI:396:HIS:HA	25:OI:399:THR:HG22	1.99	0.43
25:OK:85:PHE:HB2	25:OK:90:PHE:HE1	1.83	0.43
24:ON:9:ILE:HG13	24:ON:68:LEU:HD21	2.00	0.43
24:ON:242:LEU:HD11	24:ON:252:ILE:HG12	1.99	0.43
25:OO:170:VAL:HG22	25:OO:203:ASP:HB3	2.00	0.43
25:OO:173:PRO:HD2	25:OO:205:GLU:HG2	2.00	0.43
24:PH:180:ALA:HB3	24:PH:183:GLU:HG3	2.00	0.43
24:PH:274:PRO:HD3	24:PH:291:ILE:HD12	2.00	0.43
24:PN:169:PHE:HZ	24:PN:238:LEU:HD22	1.83	0.43
28:Q1:1325:VAL:HG21	28:Q1:1356:LEU:HD13	2.00	0.43
28:Q1:1391:PRO:HA	28:Q1:1392:PRO:HD3	1.87	0.43
25:QE:330:MET:SD	25:QE:349:VAL:HG11	2.58	0.43
25:QK:190:HIS:CG	25:QK:414:ASN:HD21	2.36	0.43
25:QQ:207:LEU:HB3	25:QQ:225:LEU:HD22	2.00	0.43
25:RC:222:PHE:O	25:RC:226:ASN:ND2	2.51	0.43
24:RF:271:SER:HB2	24:RF:377:MET:HB3	2.00	0.43
24:RJ:9:ILE:HG13	24:RJ:139:ASN:HB3	2.00	0.43
25:RK:117:LEU:HD22	25:RK:154:LYS:HE3	2.00	0.43
24:SD:175:PRO:HB3	24:SD:390:ARG:HD2	2.00	0.43
25:SI:106:TYR:HE1	25:SI:403:MET:HB3	1.83	0.43
24:SL:338:LYS:HB3	24:SL:338:LYS:HE2	1.86	0.43
24:SP:422:ARG:HD2	24:SP:422:ARG:HA	1.85	0.43
25:TC:3:GLU:HA	25:TC:49:VAL:HA	2.01	0.43
25:TE:113:ILE:HA	25:TE:116:VAL:HG22	2.00	0.43
24:TN:11:GLN:NE2	24:TN:15:GLN:OE1	2.51	0.43
24:TP:94:SER:OG	24:TP:95:GLY:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:UC:20:PHE:HA	25:UC:230:SER:HB2	2.00	0.43
24:UF:16:VAL:O	24:UF:20:CYS:N	2.47	0.43
25:UG:170:VAL:HG21	25:UG:377:MET:SD	2.57	0.43
25:UI:232:VAL:HG11	25:UI:268:VAL:HG21	2.00	0.43
25:UK:271:THR:O	25:UK:273:LEU:N	2.51	0.43
25:UM:8:GLN:HB2	25:UM:65:LEU:HD23	2.00	0.43
25:UO:395:LEU:HD21	25:UO:405:GLU:OE2	2.18	0.43
34:V1:11:THR:N	34:V1:30:SER:O	2.51	0.43
24:VD:25:CYS:O	24:VD:30:ILE:N	2.51	0.43
24:VD:422:ARG:O	24:VD:426:ALA:N	2.48	0.43
25:VE:74:ASP:HA	25:VE:77:ARG:HB3	2.01	0.43
24:VF:229:ARG:NH2	36:W5:9:UNK:O	2.45	0.43
24:VF:292:THR:HG21	24:VF:331:SER:HB2	2.00	0.43
24:VJ:88:HIS:NE2	24:WJ:284:GLU:HG2	2.34	0.43
25:VO:293:MET:HG2	25:VO:367:PHE:HB2	1.99	0.43
25:WA:134:GLN:HA	25:WA:165:LEU:HB2	2.00	0.43
25:WC:54:ALA:HA	25:XC:283:ALA:HB2	2.00	0.43
25:WE:326:VAL:O	25:WE:330:MET:HG2	2.19	0.43
24:WF:272:TYR:HB3	24:WF:275:ILE:HD11	1.99	0.43
25:WI:236:ILE:HA	25:WI:316:LEU:HD13	2.00	0.43
25:WK:7:ILE:O	25:WK:135:VAL:HA	2.18	0.43
25:WK:21:TRP:HE1	25:WK:63:ALA:HB2	1.84	0.43
25:WK:165:LEU:HD23	25:WK:250:LEU:HD13	1.99	0.43
25:WK:237:THR:HG22	25:WK:250:LEU:HD21	2.00	0.43
24:WL:3:GLU:HG3	24:WL:129:CYS:HB2	2.00	0.43
24:WL:53:PHE:HB3	24:WL:61:HIS:HB3	2.00	0.43
39:X3:591:TRP:CE3	39:X3:593:HIS:HD2	2.37	0.43
24:XH:137:VAL:HG11	24:XH:154:LEU:HD21	2.00	0.43
25:XO:184:ASN:ND2	25:XO:398:TYR:OH	2.51	0.43
40:Y1:452:ASN:HB3	40:Y1:456:ARG:HH21	1.83	0.43
40:Y4:443:CYS:SG	40:Y5:444:ARG:NH1	2.78	0.43
40:Y7:78:ALA:HB3	40:Y7:422:ASP:HB2	2.00	0.43
24:YD:2:ARG:HG2	24:YD:51:THR:HG22	2.00	0.43
24:YF:109:THR:OG1	24:YF:110:ILE:N	2.51	0.43
24:YF:386:GLU:OE1	24:YF:386:GLU:N	2.49	0.43
24:YJ:72:PRO:HG3	25:YK:1:MET:HG3	2.00	0.43
24:YJ:75:VAL:HG12	24:YJ:79:ARG:HE	1.82	0.43
24:YJ:88:HIS:HE2	24:ZJ:284:GLU:HG2	1.81	0.43
24:YL:157:LEU:HB3	24:YL:166:LYS:HE2	1.99	0.43
41:Z0:152:ALA:O	41:Z0:159:ARG:NH2	2.51	0.43
25:ZG:68:LEU:HB3	25:ZG:96:GLY:HA2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:ZL:3:GLU:HA	24:ZL:51:THR:HA	2.00	0.43
24:ZL:155:GLU:HA	24:ZL:197:HIS:CD2	2.53	0.43
24:ZL:209:ILE:HG23	24:ZL:230:LEU:HD11	2.00	0.43
2:1A:1662:ASP:OD1	2:1A:1663:ALA:N	2.52	0.43
2:1D:1351:GLU:HB3	2:1D:1354:VAL:HG12	1.98	0.43
2:1D:2085:SER:OG	2:1D:2086:GLY:N	2.51	0.43
16:A3:143:SER:HB3	24:XB:123:ARG:NE	2.33	0.43
17:B1:456:ARG:HH12	25:RK:403:MET:HG3	1.84	0.43
18:C3:601:ALA:H	18:C3:604:ALA:HB2	1.84	0.43
18:C4:76:THR:OG1	25:VE:157:GLU:OE2	2.29	0.43
19:D2:383:LEU:HD22	19:D2:401:ARG:NH2	2.33	0.43
19:D3:156:ASN:OD1	19:D3:157:ALA:N	2.51	0.43
19:D4:369:ASP:OD1	19:D4:369:ASP:N	2.51	0.43
21:F1:149:ALA:HB3	21:F1:152:MET:HG3	2.00	0.43
21:F1:171:ASP:HB3	21:F1:182:VAL:HB	2.00	0.43
21:F2:62:ARG:HH21	21:F2:64:ILE:HG22	1.84	0.43
19:G1:196:LYS:HG3	19:G1:197:HIS:CD2	2.53	0.43
19:G4:335:LYS:HA	19:G4:335:LYS:HD3	1.79	0.43
19:G4:344:LEU:HG	19:G4:353:LYS:HG2	2.01	0.43
19:H1:264:ASP:HB3	19:H1:267:VAL:HG22	1.99	0.43
19:H3:401:ARG:HG3	19:H3:405:LYS:HZ3	1.82	0.43
19:H5:14:GLN:HA	19:H5:17:ARG:HG2	1.99	0.43
19:H7:127:LEU:HA	19:H7:130:LEU:HG	2.00	0.43
19:K0:343:ALA:O	19:K0:353:LYS:NZ	2.52	0.43
19:K0:379:CYS:O	19:K0:382:THR:OG1	2.28	0.43
19:K2:161:GLN:HA	19:K2:164:VAL:HG12	1.99	0.43
19:K3:198:THR:HB	19:K3:201:LEU:HD23	2.00	0.43
19:K3:369:ASP:N	19:K3:369:ASP:OD2	2.51	0.43
19:L2:280:LYS:HA	19:L2:319:TYR:CD1	2.53	0.43
19:L3:233:LEU:HA	19:L3:236:ILE:HG12	2.00	0.43
22:M1:963:ARG:HE	28:Q1:2653:LEU:HD21	1.83	0.43
23:N0:58:LYS:HZ3	23:N0:94:LEU:HD21	1.83	0.43
24:ND:16:VAL:HA	24:ND:228:ASN:HB3	2.01	0.43
25:NE:314:SER:N	25:NE:368:ILE:O	2.49	0.43
25:NG:345:ILE:O	25:NG:348:ASN:ND2	2.51	0.43
24:NH:384:ILE:HA	24:NH:387:ILE:HG22	1.98	0.43
25:NI:2:ARG:HD3	25:NI:2:ARG:H	1.82	0.43
25:NI:421:GLU:HA	25:NI:424:GLN:HG3	1.99	0.43
24:NJ:31:GLN:NE2	24:NJ:32:PRO:HD2	2.33	0.43
24:NJ:133:GLN:HG3	24:NJ:252:ILE:HB	1.99	0.43
24:NL:88:HIS:HA	24:NL:89:PRO:HD3	1.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:O0:381:ILE:O	26:O0:385:ILE:HG12	2.19	0.43
25:OG:207:LEU:HD23	25:OG:210:ILE:HD11	2.00	0.43
24:OH:195:LEU:HD13	24:OH:266:HIS:CE1	2.53	0.43
24:ON:388:PHE:O	24:ON:392:ASP:N	2.48	0.43
25:PC:109:GLY:O	25:PC:113:ILE:HG12	2.18	0.43
25:PE:156:ARG:HG3	25:PE:195:ASN:HB3	1.99	0.43
25:PI:163:MET:HG2	25:PI:250:LEU:HB3	2.00	0.43
24:PN:179:THR:HG1	44:PN:501:GTP:HO3'	1.66	0.43
25:PO:44:LEU:HD12	25:PO:47:ILE:HG13	2.00	0.43
25:PO:54:ALA:HB3	25:PO:58:ARG:HB3	1.99	0.43
24:PP:185:TYR:HB3	24:PP:408:TYR:HE2	1.83	0.43
28:Q0:922:SER:HB3	28:Q0:985:GLN:HG2	1.99	0.43
28:Q1:194:LEU:HD13	28:Q1:230:LEU:HD22	2.00	0.43
28:Q1:2016:LEU:HD23	28:Q1:2019:LEU:HD21	2.00	0.43
25:QC:372:THR:OG1	25:QC:422:TYR:O	2.36	0.43
24:QL:186:ASN:OD1	24:QL:408:TYR:OH	2.31	0.43
25:QM:113:ILE:HD11	25:QM:151:LEU:HB2	2.00	0.43
24:QN:123:ARG:HA	24:QN:123:ARG:HD3	1.88	0.43
25:RE:419:VAL:HG23	33:U0:191:VAL:HG11	2.00	0.43
24:RF:33:ASP:HA	24:RF:85:GLN:HB2	2.01	0.43
24:RF:210:TYR:CZ	24:RF:227:LEU:HD11	2.53	0.43
24:RF:268:MET:HE2	24:RF:378:ILE:HG22	2.01	0.43
25:RG:86:ARG:CZ	25:SG:282:ARG:HH22	2.32	0.43
24:RH:209:ILE:HG23	24:RH:230:LEU:HD23	1.99	0.43
24:RH:274:PRO:HD2	24:RH:374:ALA:HA	2.00	0.43
25:RK:4:ILE:HB	25:RK:50:TYR:HE1	1.83	0.43
25:RM:105:HIS:CE1	25:RM:150:LEU:HD12	2.53	0.43
25:RM:224:ASP:OD1	25:RM:224:ASP:N	2.47	0.43
24:RP:90:GLU:HG3	24:RP:121:ARG:NH1	2.33	0.43
30:S2:41:TRP:HH2	25:XE:73:MET:HG3	1.82	0.43
30:S2:110:LYS:HZ2	24:VF:47:ASP:N	2.17	0.43
24:SB:21:TRP:NE1	24:SB:65:CYS:SG	2.91	0.43
24:SB:317:LEU:HD23	24:SB:351:PHE:HD1	1.83	0.43
24:SF:210:TYR:CE1	24:SF:227:LEU:HD21	2.53	0.43
24:SH:142:GLY:O	24:SH:186:ASN:ND2	2.43	0.43
24:SJ:66:ILE:HD12	24:SJ:68:LEU:HD23	2.01	0.43
25:SK:391:ARG:HG2	24:SL:346:TRP:CD1	2.53	0.43
24:SN:391:LEU:O	24:SN:395:PHE:N	2.43	0.43
25:SO:132:GLY:HA2	25:SO:162:ARG:HG3	2.01	0.43
24:SP:273:ALA:HB3	24:SP:375:VAL:HB	2.00	0.43
32:T0:412:SER:O	25:YM:420:SER:OG	2.30	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:TB:267:PHE:HB2	24:TB:384:ILE:HD12	1.99	0.43
25:TG:128:ASP:OD1	25:TG:129:CYS:N	2.51	0.43
24:TL:316:CYS:HA	24:TL:352:LYS:HB3	1.99	0.43
24:TP:68:LEU:HD11	24:TP:153:LEU:HD22	2.00	0.43
33:U0:43:VAL:HG23	33:U0:44:PHE:CD1	2.54	0.43
25:UK:207:LEU:HB3	25:UK:225:LEU:HG	2.00	0.43
24:UL:286:LEU:O	24:UL:373:ARG:NH1	2.51	0.43
25:UM:276:ARG:HA	25:UM:279:GLN:HG2	2.01	0.43
24:UP:431:ASP:HA	24:UP:434:GLU:HG3	2.00	0.43
24:VD:105:ARG:HA	24:VD:109:THR:HB	2.00	0.43
25:VE:253:LEU:HD11	25:VE:316:LEU:HD11	2.00	0.43
24:VF:105:ARG:HA	24:VF:109:THR:HG22	2.00	0.43
24:VF:409:VAL:HG22	24:VF:415:GLU:HB3	1.99	0.43
25:VM:175:VAL:HG11	24:VN:329:ASN:ND2	2.32	0.43
25:VM:178:THR:OG1	25:VM:181:GLU:HB2	2.19	0.43
24:VN:209:ILE:HG23	24:VN:230:LEU:HD11	2.00	0.43
25:WG:405:GLU:HA	25:WG:408:PHE:HD1	1.83	0.43
24:WH:219:ILE:HG13	24:WH:222:PRO:HD3	2.01	0.43
25:XC:207:LEU:HD13	25:XC:225:LEU:HB3	1.99	0.43
25:XE:290:THR:HG21	25:XE:329:GLN:HB3	2.00	0.43
24:XF:298:PRO:HB3	24:XF:307:PRO:HD2	1.99	0.43
24:XN:180:ALA:HB3	24:XN:183:GLU:HG3	2.00	0.43
40:Y0:213:LEU:N	40:Y0:283:LYS:O	2.33	0.43
40:Y1:361:GLY:HA3	40:Y1:365:LEU:HD23	2.00	0.43
40:Y3:83:ALA:H	40:Y3:417:SER:HB2	1.84	0.43
40:Y4:43:THR:HG22	40:Y5:32:LEU:HG	2.00	0.43
40:Y4:444:ARG:NE	40:Y4:446:GLU:OE2	2.51	0.43
40:Y6:396:GLU:O	40:Y6:400:ALA:N	2.49	0.43
25:YE:64:ILE:HD13	25:YE:119:VAL:HG11	1.99	0.43
25:YG:328:GLU:O	25:YG:332:ASN:N	2.47	0.43
24:YH:137:VAL:HG11	24:YH:154:LEU:HD11	2.00	0.43
25:YI:44:LEU:HD23	25:YI:47:ILE:HD12	1.99	0.43
24:YJ:331:SER:O	24:YJ:334:THR:OG1	2.27	0.43
24:YP:109:THR:HG22	24:YP:110:ILE:HG23	1.99	0.43
41:Z1:206:LEU:HG	41:Z1:346:SER:HB2	2.00	0.43
41:Z2:184:ALA:HA	41:Z2:189:LEU:HD12	1.99	0.43
24:ZB:105:ARG:NH2	24:ZB:411:GLU:OE2	2.50	0.43
25:ZE:217:LEU:HB2	25:ZE:220:PRO:HG3	1.99	0.43
25:ZI:316:LEU:HD23	25:ZI:352:SER:HB3	2.01	0.43
25:ZM:364:SER:OG	25:ZM:365:ALA:N	2.52	0.43
24:ZN:67:PHE:HB2	24:ZN:92:LEU:HD23	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:ZO:2:ARG:HB3	25:ZO:131:GLN:HB2	1.99	0.43
25:ZO:88:ASP:OD1	25:ZO:88:ASP:N	2.52	0.43
2:1A:1586:GLY:HA2	2:1A:1812:LEU:HB3	2.00	0.43
2:1A:1933:LEU:HD21	2:1A:1975:ILE:HD11	2.00	0.43
2:1A:2182:GLU:HG2	2:1A:2252:TYR:CE2	2.53	0.43
2:1B:1571:ASP:HB2	2:1B:1924:ARG:HH21	1.84	0.43
2:1B:2166:LEU:HD12	2:1B:2242:VAL:HG21	2.00	0.43
2:1C:1307:THR:HA	2:1C:1310:LEU:HG	2.00	0.43
7:2K:156:GLU:HA	9:3K:155:ALA:HB3	1.99	0.43
9:3M:139:TYR:O	9:3M:143:MET:N	2.47	0.43
11:5A:694:ALA:HA	11:5A:819:LEU:HA	1.99	0.43
14:8D:10:PRO:HG2	14:8D:15:ALA:HB3	2.01	0.43
16:A2:184:ARG:HH12	24:YF:264:ARG:HB2	1.84	0.43
18:C0:1348:ASP:O	18:C0:1356:THR:OG1	2.36	0.43
18:C1:853:HIS:CE1	18:C1:855:GLU:HB2	2.53	0.43
18:C2:1289:VAL:HG21	18:C2:1373:PRO:HB2	2.00	0.43
18:C3:1481:GLY:O	18:C3:1484:VAL:HG22	2.18	0.43
18:C4:97:ILE:O	18:C4:101:LEU:HB2	2.19	0.43
19:D6:198:THR:HG22	19:D6:201:LEU:HD12	2.01	0.43
19:G1:257:LEU:HD21	19:G1:294:GLY:HA2	2.00	0.43
19:G5:173:VAL:HG22	19:G5:213:TYR:HD2	1.82	0.43
19:H0:134:LEU:O	19:H0:142:LYS:HE2	2.19	0.43
19:H1:100:LYS:HG3	19:H1:141:VAL:HG11	1.99	0.43
19:H1:232:ALA:HA	19:H1:235:GLN:HE21	1.82	0.43
19:H5:257:LEU:HA	19:H5:260:LEU:HG	1.99	0.43
19:J1:184:LYS:HD3	19:J1:217:LEU:HD21	2.01	0.43
19:K0:46:LEU:HA	19:K0:49:LEU:HD12	1.99	0.43
19:L1:369:ASP:OD1	19:L1:423:ARG:NH1	2.41	0.43
19:L1:472:LYS:H	19:L1:472:LYS:HG3	1.61	0.43
22:M0:774:GLY:O	28:Q0:1359:ARG:NH2	2.51	0.43
22:M1:969:LEU:HD11	28:Q1:1204:ALA:HB2	2.01	0.43
25:NC:232:VAL:HG22	25:NC:270:PHE:HB2	2.00	0.43
25:NC:246:LEU:HD22	25:NC:352:SER:HA	1.99	0.43
24:NH:72:PRO:HA	24:NH:75:VAL:HG12	2.00	0.43
24:NL:3:GLU:OE2	24:NL:130:THR:N	2.51	0.43
24:NL:3:GLU:HA	24:NL:51:THR:HA	2.01	0.43
24:NL:328:VAL:HG11	24:NL:355:ILE:HD11	2.00	0.43
25:NO:246:LEU:HD22	25:NO:352:SER:HA	2.01	0.43
24:OF:407:TRP:CH2	25:OG:258:ILE:HB	2.51	0.43
24:OH:9:ILE:HD13	24:OH:150:GLY:HA2	1.99	0.43
24:OH:98:ASP:OD1	24:OH:98:ASP:N	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:OI:22:GLU:HA	25:OI:81:TYR:HD2	1.83	0.43
24:OJ:168:GLY:N	24:OJ:200:VAL:O	2.39	0.43
24:OJ:300:SER:O	24:OJ:300:SER:OG	2.34	0.43
25:OM:7:ILE:HG22	25:OM:64:ILE:HB	2.00	0.43
25:OM:12:CYS:HA	46:OM:501:GDP:C6	2.53	0.43
25:OM:213:ARG:HA	25:OM:213:ARG:NH1	2.34	0.43
24:ON:203:MET:HB3	24:ON:303:VAL:HG11	2.00	0.43
25:OQ:253:LEU:HD23	25:OQ:253:LEU:HA	1.83	0.43
25:PC:391:ARG:HG3	24:PD:346:TRP:CD1	2.53	0.43
24:PD:304:LYS:HB2	24:PD:304:LYS:HE3	1.77	0.43
28:Q0:2713:LEU:HD23	28:Q0:2713:LEU:HA	1.89	0.43
28:Q0:2725:ASP:OD1	28:Q0:2725:ASP:N	2.50	0.43
24:QD:288:VAL:HG13	24:QD:319:TYR:HE2	1.83	0.43
25:QE:5:VAL:HG11	25:QE:120:VAL:HG23	2.00	0.43
25:QE:48:ASN:OD1	25:QE:48:ASN:N	2.52	0.43
24:QF:68:LEU:HA	24:QF:93:ILE:HB	2.00	0.43
24:QH:433:GLU:O	24:QH:437:ALA:N	2.51	0.43
24:QL:189:LEU:HD11	24:QL:418:PHE:HE1	1.83	0.43
25:QQ:86:ARG:HA	25:QQ:86:ARG:HD3	1.75	0.43
29:R1:172:ASP:HA	29:R1:175:VAL:HG22	2.01	0.43
25:RK:171:PRO:HG2	25:RK:185:ALA:HB2	2.00	0.43
25:RO:13:GLY:HA2	25:RO:16:ILE:HG22	2.01	0.43
24:SD:209:ILE:HG12	24:SD:302:MET:HE3	2.01	0.43
24:SD:222:PRO:O	25:SE:324:LYS:NZ	2.51	0.43
24:SF:177:VAL:HB	25:SG:331:LEU:HD13	1.99	0.43
25:SG:330:MET:HB3	25:SG:349:VAL:HG21	2.00	0.43
24:SJ:71:GLU:HB2	24:SJ:98:ASP:HB3	1.99	0.43
24:SJ:306:ASP:HB3	24:SJ:309:HIS:CE1	2.53	0.43
25:SO:294:TRP:CE2	25:SO:333:VAL:HG11	2.53	0.43
32:T1:61:GLY:O	25:XK:425:TYR:OH	2.37	0.43
25:TK:135:VAL:HG21	25:TK:152:ILE:HD11	2.00	0.43
25:TM:4:ILE:HB	25:TM:50:TYR:HE1	1.84	0.43
25:TM:164:MET:HB3	25:TM:197:ASP:H	1.83	0.43
25:TO:325:GLU:HA	25:TO:328:GLU:HG2	2.01	0.43
25:UI:396:HIS:HA	25:UI:399:THR:HG22	1.99	0.43
25:UK:12:CYS:O	25:UK:16:ILE:HG12	2.19	0.43
25:UM:135:VAL:N	25:UM:165:LEU:O	2.48	0.43
24:UP:325:PRO:O	24:UP:329:ASN:ND2	2.51	0.43
24:VD:265:ILE:HG23	24:VD:432:PHE:HE1	1.84	0.43
24:VH:251:ASP:HB2	24:VH:254:GLU:HG3	1.99	0.43
24:VJ:5:ILE:HD13	24:VJ:64:ARG:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:VL:222:PRO:O	25:VM:322:SER:OG	2.30	0.43
24:VP:305:CYS:HB2	24:VP:383:ALA:HB1	2.01	0.43
24:WB:7:ILE:HG22	24:WB:66:ILE:HG12	2.01	0.43
24:WB:76:ASP:HA	24:WB:79:ARG:HD2	1.99	0.43
24:WF:275:ILE:HG23	24:WF:368:LEU:HD21	2.00	0.43
25:WG:210:ILE:HD11	25:WG:298:ASN:HA	2.00	0.43
24:WJ:147:SER:HB3	24:WJ:190:SER:HB3	2.00	0.43
24:WL:195:LEU:HD23	24:WL:195:LEU:HA	1.91	0.43
39:X0:674:ALA:HA	39:X0:677:ALA:HB3	2.00	0.43
39:X2:881:PRO:HA	39:X2:918:SER:HA	2.00	0.43
39:X3:801:ALA:N	40:Y7:17:GLU:OE2	2.51	0.43
24:XD:203:MET:N	24:XD:268:MET:O	2.45	0.43
25:XE:27:GLU:OE2	25:XE:241:ARG:NH1	2.51	0.43
25:XG:64:ILE:HD12	25:XG:119:VAL:HG12	2.00	0.43
24:XJ:174:SER:HB3	24:XJ:207:GLU:HB2	2.01	0.43
40:Y4:62:PRO:HG2	40:Y4:105:GLY:HA2	2.00	0.43
40:Y7:186:ILE:HG12	40:Y7:433:ALA:HB1	1.99	0.43
25:YC:36:TYR:OH	25:YC:40:SER:O	2.37	0.43
25:YC:272:PRO:HG3	25:YC:364:SER:HA	2.00	0.43
24:YD:51:THR:HG21	24:YD:243:ARG:HA	2.00	0.43
24:YD:91:GLN:O	24:YD:93:ILE:HG12	2.19	0.43
24:YJ:67:PHE:HB2	24:YJ:92:LEU:HD22	2.00	0.43
24:YL:271:SER:HB3	24:YL:301:MET:HG3	2.01	0.43
41:Z3:44:ALA:HB3	41:Z3:51:LEU:HB2	2.00	0.43
24:ZD:228:ASN:HD21	44:ZD:501:GTP:HN1	1.66	0.43
25:ZG:31:ASP:OD1	25:ZG:35:THR:N	2.51	0.43
25:ZI:238:CYS:SG	25:ZI:239:CYS:N	2.91	0.43
24:ZJ:147:SER:HB3	24:ZJ:190:SER:HB2	2.00	0.43
2:1A:1248:ALA:HA	43:1A:2602:ANP:HNB1	1.83	0.43
2:1A:1923:ARG:HE	2:1A:1924:ARG:H	1.65	0.43
2:1A:2029:LEU:HB2	2:1A:2093:ALA:HB3	2.01	0.43
2:1B:2026:VAL:HG22	2:1B:2096:ASP:HA	2.01	0.43
43:1C:2602:ANP:O2B	43:1C:2602:ANP:O2A	2.36	0.43
2:1D:1439:LEU:HD12	2:1D:1439:LEU:HA	1.89	0.43
14:8C:257:GLU:HB3	14:8C:261:ARG:HH21	1.84	0.43
15:9B:932:LEU:HA	15:9B:961:GLY:HA2	1.99	0.43
15:9E:1356:VAL:HA	15:9E:1370:THR:O	2.19	0.43
17:B1:463:ARG:NH1	25:RK:191:GLN:OE1	2.42	0.43
18:C1:411:ARG:HH21	18:C1:412:GLN:CD	2.22	0.43
18:C1:1576:LEU:HD22	18:C1:1608:LEU:HB3	1.99	0.43
18:C2:602:PRO:HD3	18:C2:890:GLN:HG2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:C3:1664:GLN:NE2	18:C3:1665:GLU:HG2	2.34	0.43
19:D0:380:LEU:HA	19:D0:383:LEU:HD12	2.00	0.43
19:D2:268:LYS:HE2	19:D2:301:TYR:HD1	1.82	0.43
19:D5:226:LYS:HB2	19:D5:267:VAL:HG11	2.00	0.43
19:G3:176:VAL:HG11	19:G3:214:LEU:HD12	2.00	0.43
19:G5:237:ALA:O	19:G5:281:HIS:NE2	2.44	0.43
19:H3:436:GLN:HA	19:H3:443:ASN:HA	2.01	0.43
19:I0:348:PRO:HB2	19:I0:352:LEU:HD12	1.99	0.43
19:J1:96:ASN:OD1	19:J1:97:ARG:N	2.42	0.43
19:J2:251:GLU:OE1	19:J2:255:LYS:NZ	2.51	0.43
19:J3:234:SER:HA	19:J3:277:GLU:OE2	2.19	0.43
19:K3:423:ARG:O	19:K3:427:GLU:N	2.49	0.43
22:M0:954:LEU:HD13	22:M0:970:HIS:HB2	2.00	0.43
22:M1:391:GLU:HA	22:M1:394:TYR:CE1	2.54	0.43
23:N0:58:LYS:HZ3	23:N0:94:LEU:HD11	1.83	0.43
24:NF:9:ILE:HG13	24:NF:68:LEU:HD21	1.99	0.43
24:NF:180:ALA:HB3	24:NF:183:GLU:HG3	2.00	0.43
24:NF:377:MET:SD	24:NF:379:SER:OG	2.66	0.43
25:NG:334:GLN:OE1	25:NG:348:ASN:N	2.47	0.43
24:NJ:1:MET:HB3	24:NJ:50:ASN:HD21	1.83	0.43
24:NL:395:PHE:CE2	24:NL:422:ARG:HD3	2.53	0.43
26:O0:942:SER:HA	26:O0:943:PRO:HA	1.89	0.43
24:OD:180:ALA:HB3	24:OD:183:GLU:HG2	1.99	0.43
25:OI:427:ASP:OD1	25:OI:427:ASP:N	2.45	0.43
24:OJ:28:HIS:CE1	24:OJ:243:ARG:HG2	2.54	0.43
24:OJ:288:VAL:HB	24:OJ:327:ASP:HB3	2.00	0.43
24:OL:210:TYR:HD1	25:OM:324:LYS:HD3	1.83	0.43
25:OM:54:ALA:HA	25:PM:283:ALA:HB2	1.99	0.43
25:OM:272:PRO:HG2	25:OM:361:LEU:HD13	1.99	0.43
24:ON:200:VAL:HG11	24:ON:255:PHE:HE2	1.83	0.43
25:OQ:372:THR:OG1	25:OQ:422:TYR:O	2.35	0.43
24:PH:123:ARG:HH22	37:W9:52:UNK:C	2.31	0.43
24:PJ:135:PHE:CE2	24:PJ:157:LEU:HD22	2.53	0.43
24:PJ:208:ALA:HA	24:PJ:304:LYS:HE2	2.01	0.43
24:PJ:274:PRO:HD2	24:PJ:374:ALA:HA	2.00	0.43
25:PK:237:THR:HG23	25:PK:241:ARG:NH1	2.32	0.43
25:PM:86:ARG:HG2	25:PM:88:ASP:H	1.83	0.43
25:PM:109:GLY:O	25:PM:113:ILE:HG12	2.19	0.43
25:PO:133:PHE:HB2	25:PO:164:MET:SD	2.59	0.43
28:Q1:952:LYS:HZ2	28:Q1:958:VAL:HG11	1.83	0.43
28:Q1:3106:LEU:HD22	28:Q1:3147:LEU:HD13	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:QD:89:PRO:HD2	24:RD:280:LYS:HZ3	1.83	0.43
25:QI:164:MET:HB2	25:QI:197:ASP:H	1.84	0.43
24:QJ:223:THR:OG1	25:QK:245:GLN:OE1	2.31	0.43
24:QJ:251:ASP:OD1	24:QJ:252:ILE:N	2.51	0.43
25:QM:128:ASP:OD1	25:QM:129:CYS:N	2.48	0.43
25:QO:421:GLU:HA	25:QO:424:GLN:HB3	1.99	0.43
25:RE:30:ILE:HD11	25:RE:47:ILE:HD11	2.00	0.43
24:RH:141:VAL:O	24:RH:147:SER:OG	2.36	0.43
25:RI:263:LEU:O	25:RI:370:ASN:ND2	2.45	0.43
25:RK:2:ARG:HB3	25:RK:131:GLN:HG2	2.00	0.43
25:RM:28:HIS:NE2	25:RM:241:ARG:HD2	2.33	0.43
25:RM:61:PRO:HD3	25:RM:84:ILE:HG12	2.01	0.43
24:RP:239:THR:HG23	24:RP:243:ARG:HH12	1.84	0.43
24:SB:7:ILE:HD11	24:SB:137:VAL:HG22	2.01	0.43
25:SC:266:PHE:CE1	25:SC:370:ASN:HB2	2.53	0.43
25:SC:301:CYS:SG	25:SC:302:ALA:N	2.92	0.43
24:SH:205:ASP:HB2	24:SH:303:VAL:HG23	2.00	0.43
25:SM:248:ALA:HA	25:SM:252:LYS:HG3	2.00	0.43
25:SO:396:HIS:CE1	24:SP:261:PRO:O	2.71	0.43
32:T0:500:ASP:OD1	32:T0:501:ASP:N	2.50	0.43
24:TB:343:PHE:HE2	24:TB:350:GLY:HA3	1.83	0.43
25:TC:204:ASN:OD1	46:TC:501:GDP:O2'	2.32	0.43
25:TG:248:ALA:HA	25:TG:252:LYS:HG3	2.01	0.43
25:TG:396:HIS:HA	25:TG:399:THR:HG22	2.00	0.43
25:TO:54:ALA:HA	25:UO:283:ALA:HB2	2.01	0.43
24:TP:336:LYS:HG2	24:TP:343:PHE:HE2	1.83	0.43
25:UI:3:GLU:HA	25:UI:49:VAL:HA	1.99	0.43
25:UK:249:ASP:OD2	25:UK:252:LYS:N	2.40	0.43
24:UN:42:ILE:HD11	24:UN:358:GLN:HE22	1.82	0.43
24:UN:98:ASP:N	24:UN:98:ASP:OD1	2.46	0.43
25:VG:330:MET:HB3	25:VG:349:VAL:HG21	2.00	0.43
25:VM:99:ASN:HB2	24:VN:257:THR:HG21	1.99	0.43
24:WB:88:HIS:ND1	24:XB:283:HIS:HB2	2.34	0.43
24:WL:205:ASP:HB3	24:WL:303:VAL:HA	2.00	0.43
39:X1:144:ARG:HB3	39:X1:166:THR:HG22	2.00	0.43
39:X2:571:ARG:HA	39:X2:574:THR:HG22	2.01	0.43
25:XA:204:ASN:O	25:XA:208:TYR:N	2.50	0.43
24:XD:70:LEU:HD23	24:XD:114:ILE:HG13	2.00	0.43
24:XD:394:LYS:NZ	25:XE:347:ASN:OD1	2.39	0.43
25:XE:54:ALA:HB3	25:XE:58:ARG:HG2	1.99	0.43
25:XE:135:VAL:HG23	25:XE:166:THR:HA	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:XG:319:GLY:N	25:XG:354:CYS:O	2.47	0.43
24:XL:76:ASP:OD2	25:XM:46:ARG:NH2	2.52	0.43
25:XM:184:ASN:OD1	25:XM:398:TYR:OH	2.34	0.43
25:XO:117:LEU:O	25:XO:121:ARG:HG2	2.19	0.43
40:Y6:218:SER:N	40:Y6:222:GLU:OE2	2.42	0.43
24:YD:288:VAL:HG13	24:YD:319:TYR:HE2	1.83	0.43
24:YL:121:ARG:HE	24:YL:124:LYS:HD2	1.83	0.43
25:YO:272:PRO:HG3	25:YO:364:SER:HA	2.00	0.43
41:Z0:17:SER:N	41:Z0:39:THR:O	2.51	0.43
41:Z0:539:LYS:HA	41:Z0:542:VAL:HG12	2.01	0.43
41:Z1:329:ASP:OD2	41:Z1:423:ASN:ND2	2.52	0.43
41:Z1:433:VAL:HA	41:Z1:481:ASN:HA	2.01	0.43
41:Z2:528:ALA:O	41:Z2:532:LYS:HG2	2.19	0.43
24:ZH:210:TYR:HE1	24:ZH:227:LEU:HD11	1.83	0.43
25:ZO:260:PHE:HB2	25:ZO:263:LEU:HD13	2.00	0.43
24:ZP:75:VAL:HG11	24:ZP:94:SER:HB2	2.00	0.43
24:ZP:99:ALA:HA	24:ZP:105:ARG:HE	1.84	0.43
2:1D:1937:ALA:HB3	2:1D:1949:ARG:H	1.83	0.43
10:4H:31:ILE:O	10:4H:67:ILE:N	2.52	0.43
14:8C:109:TYR:OH	25:VG:73:MET:SD	2.61	0.43
15:9F:1693:ALA:HA	15:9F:1783:LEU:HA	1.99	0.43
16:A0:85:HIS:CG	25:XO:91:VAL:HG23	2.53	0.43
16:A1:126:LEU:N	16:A1:129:SER:OG	2.52	0.43
17:B0:729:LEU:HD23	17:B0:733:ARG:HD2	1.99	0.43
17:B2:439:GLU:HA	17:B2:442:LYS:HG2	2.00	0.43
18:C0:1222:LEU:HD21	18:C0:1530:LEU:HD11	2.01	0.43
18:C0:1515:ASP:HB3	18:C0:1526:ASP:HB2	2.00	0.43
18:C1:567:GLY:O	18:C1:808:SER:OG	2.31	0.43
18:C2:21:LEU:HD12	18:C2:91:PRO:HB3	2.01	0.43
18:C2:853:HIS:HE1	18:C2:855:GLU:HB2	1.84	0.43
18:C2:1448:LEU:O	18:C2:1451:LEU:HG	2.18	0.43
18:C3:597:ALA:O	18:C3:824:VAL:HA	2.18	0.43
18:C3:1633:PHE:HE2	18:C3:1747:LEU:HD12	1.83	0.43
19:D5:268:LYS:HB3	19:D5:301:TYR:CZ	2.53	0.43
19:D5:382:THR:O	19:D5:385:SER:OG	2.26	0.43
19:D7:185:ARG:HG3	19:D7:186:ILE:HD12	2.00	0.43
20:E2:150:PRO:O	20:E2:152:GLY:N	2.51	0.43
19:G3:24:VAL:HG11	19:G3:46:LEU:HD11	2.00	0.43
19:H0:252:ILE:HA	19:H0:255:LYS:HE2	2.00	0.43
19:H5:387:GLU:HB3	19:H5:397:LYS:NZ	2.33	0.43
19:H7:135:GLU:HA	19:H7:171:LEU:HD12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:H7:338:PRO:HG2	19:H7:339:PRO:HD3	2.01	0.43
19:K1:319:TYR:CZ	19:K1:358:TRP:HH2	2.37	0.43
19:K2:248:VAL:HG21	19:K2:285:LEU:HD22	2.00	0.43
19:L0:15:LYS:NZ	25:UK:399:THR:O	2.51	0.43
19:L0:450:GLN:HA	19:L0:453:HIS:CD2	2.54	0.43
19:L2:91:SER:HB3	19:L2:95:GLN:HE22	1.84	0.43
23:N0:99:VAL:HG13	23:N0:104:VAL:HB	2.01	0.43
25:NC:117:LEU:HA	25:NC:120:VAL:HG12	1.99	0.43
25:NK:315:ALA:N	25:NK:350:LYS:O	2.51	0.43
24:NL:195:LEU:HA	24:NL:266:HIS:HE2	1.84	0.43
25:OC:8:GLN:HE22	25:OC:21:TRP:HE1	1.67	0.43
24:OD:171:VAL:HA	24:OD:204:LEU:HB2	1.99	0.43
25:OE:86:ARG:HG2	25:OE:88:ASP:H	1.84	0.43
25:OE:269:GLY:HA2	25:OE:300:MET:HG3	2.00	0.43
24:OH:137:VAL:HG11	24:OH:154:LEU:HD21	2.00	0.43
25:OI:114:ASP:OD1	25:OI:115:SER:N	2.51	0.43
24:OJ:205:ASP:HB2	24:OJ:303:VAL:HG23	2.00	0.43
24:OJ:401:LYS:HD2	25:OK:344:TRP:CD2	2.54	0.43
25:OK:313:ALA:HB3	25:OK:349:VAL:HG12	2.01	0.43
25:OM:47:ILE:HG21	25:OM:59:TYR:CD2	2.54	0.43
25:OO:304:ASP:OD2	25:OO:306:ARG:NE	2.50	0.43
25:OQ:156:ARG:NH2	25:OQ:195:ASN:O	2.45	0.43
25:PC:215:LEU:HD21	25:PC:273:LEU:HD12	2.00	0.43
24:PD:109:THR:HG22	24:PD:110:ILE:HG23	2.00	0.43
25:PE:86:ARG:HG2	25:PE:88:ASP:H	1.83	0.43
25:PG:222:PHE:HD1	25:PG:225:LEU:HD12	1.83	0.43
24:PJ:212:ILE:HG23	24:PJ:275:ILE:HD12	2.00	0.43
24:PL:230:LEU:HD22	24:PL:275:ILE:HD13	2.01	0.43
24:PN:274:PRO:HD2	24:PN:374:ALA:HA	2.00	0.43
28:Q0:1735:PRO:HA	28:Q0:1739:ARG:HH11	1.84	0.43
28:Q1:914:LYS:HE3	28:Q1:926:VAL:HG11	2.00	0.43
28:Q1:2124:PHE:HB2	28:Q1:2175:LEU:HB3	2.01	0.43
25:QC:11:GLN:OE1	25:QC:15:GLN:NE2	2.49	0.43
25:QC:421:GLU:HA	25:QC:424:GLN:HB3	2.00	0.43
25:QG:391:ARG:HH22	24:QH:435:VAL:HA	1.84	0.43
25:QI:146:GLY:O	25:QI:149:THR:OG1	2.30	0.43
24:QP:222:PRO:HA	24:QP:226:ASN:HD22	1.83	0.43
29:R1:161:ASP:OD1	29:R1:162:GLY:N	2.47	0.43
25:RG:4:ILE:HG13	25:RG:131:GLN:HB3	1.99	0.43
25:RG:216:LYS:HB2	25:RG:275:SER:HB3	2.01	0.43
24:RH:88:HIS:HB3	24:RH:91:GLN:HG3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:RK:121:ARG:HH21	25:RK:158:GLU:HG3	1.83	0.43
24:RL:72:PRO:HA	24:RL:75:VAL:HG12	2.01	0.43
24:RL:185:TYR:HE1	24:RL:398:MET:HB3	1.83	0.43
24:RL:207:GLU:HA	24:RL:210:TYR:HB2	2.01	0.43
24:RN:77:GLU:HA	24:RN:80:THR:HG22	2.00	0.43
24:RP:231:ILE:HD13	24:RP:231:ILE:HA	1.91	0.43
24:SB:183:GLU:HG3	24:SB:184:PRO:HD3	1.99	0.43
24:SB:211:ASP:OD2	24:SB:304:LYS:NZ	2.37	0.43
24:SH:222:PRO:HD2	25:SI:324:LYS:HB3	2.01	0.43
24:SH:259:LEU:HD23	24:SH:268:MET:HG2	2.00	0.43
24:SP:2:ARG:HG3	24:SP:242:LEU:HB3	1.99	0.43
32:T0:84:GLN:HA	32:T0:101:LYS:HA	2.01	0.43
32:T1:541:LEU:HD11	24:YH:163:LYS:HB3	2.00	0.43
24:TB:205:ASP:HB2	24:TB:303:VAL:HG13	2.00	0.43
25:TC:234:SER:OG	25:TC:241:ARG:NH2	2.51	0.43
25:TG:237:THR:HG22	25:TG:250:LEU:HD11	2.01	0.43
25:TK:391:ARG:HH11	25:TK:391:ARG:HB3	1.82	0.43
25:TO:31:ASP:OD1	25:TO:35:THR:N	2.51	0.43
25:TO:239:CYS:SG	25:TO:248:ALA:N	2.86	0.43
24:UB:137:VAL:HB	24:UB:168:GLY:HA2	2.01	0.43
25:UC:86:ARG:NE	25:VC:282:ARG:HH22	2.16	0.43
24:UD:2:ARG:NH2	24:UD:50:ASN:HB3	2.33	0.43
25:UE:2:ARG:HB2	25:UE:131:GLN:HB2	2.00	0.43
25:UG:133:PHE:HB2	25:UG:164:MET:SD	2.58	0.43
25:UK:164:MET:HB3	25:UK:197:ASP:HB3	2.01	0.43
24:UL:253:THR:HA	24:UL:256:GLN:HG2	2.00	0.43
25:UO:8:GLN:HG2	25:UO:17:GLY:HA3	2.00	0.43
24:VN:147:SER:HB2	24:VN:190:SER:HB3	2.00	0.43
24:VP:256:GLN:O	24:VP:260:VAL:HG22	2.19	0.43
24:WD:191:THR:HG21	24:WD:388:PHE:HE1	1.84	0.43
25:WG:13:GLY:HA2	25:WG:16:ILE:HG22	2.00	0.43
25:WI:22:GLU:HA	25:WI:81:TYR:HD2	1.84	0.43
24:WJ:7:ILE:HG22	24:WJ:66:ILE:HG12	2.01	0.43
24:WJ:21:TRP:CZ2	24:WJ:65:CYS:HB3	2.54	0.43
24:WL:164:LYS:HE2	24:WL:164:LYS:HB2	1.87	0.43
24:WL:297:GLU:HG3	24:WL:299:ALA:H	1.83	0.43
25:WO:213:ARG:HB2	25:WO:297:LYS:HZ2	1.83	0.43
39:X0:487:ALA:O	39:X0:491:TRP:N	2.47	0.43
24:XB:76:ASP:OD1	24:XB:76:ASP:N	2.47	0.43
25:XC:330:MET:HB3	25:XC:349:VAL:HG11	2.01	0.43
24:XF:335:ILE:HA	24:XF:338:LYS:HZ3	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:Y0:189:VAL:HG23	40:Y0:468:ALA:HB3	2.00	0.43
40:Y1:87:VAL:HG22	40:Y1:342:GLN:HE21	1.83	0.43
40:Y4:112:ASN:HA	40:Y4:116:ILE:HD13	1.99	0.43
40:Y5:359:VAL:O	40:Y5:383:ALA:N	2.51	0.43
40:Y5:427:ASP:HB3	40:Y5:457:ILE:HG13	2.01	0.43
40:Y6:412:MET:HG3	40:Y6:436:GLN:HG3	2.00	0.43
24:YD:388:PHE:HA	24:YD:391:LEU:HG	2.00	0.43
41:Z1:541:LYS:HD2	41:Z1:598:PHE:HZ	1.83	0.43
41:Z2:281:SER:HA	41:Z2:350:PRO:HD3	2.01	0.43
41:Z3:272:ALA:HB1	41:Z3:288:ILE:HD12	1.99	0.43
25:ZC:284:LEU:HD12	25:ZC:363:MET:HB2	2.01	0.43
24:ZD:276:ILE:HG23	24:ZD:280:LYS:HB3	2.01	0.43
24:ZH:261:PRO:HG2	24:ZH:313:MET:HE2	1.99	0.43
24:ZL:137:VAL:HG21	24:ZL:154:LEU:HD21	2.00	0.43
2:1B:1279:LYS:HG2	2:1B:1280:LYS:HD2	2.01	0.43
2:1C:1708:LEU:HD11	2:1C:1837:ILE:HD11	2.00	0.43
2:1C:2040:ALA:H	2:1C:2082:LEU:HG	1.84	0.43
2:1D:2146:ASN:OD1	2:1D:2150:THR:N	2.47	0.43
4:2B:905:VAL:O	4:2B:1116:VAL:N	2.43	0.43
6:2I:80:GLY:O	6:2I:95:SER:HA	2.18	0.43
15:9D:797:SER:CB	15:9D:814:TYR:O	2.66	0.43
17:B1:376:ALA:HA	24:SN:309:HIS:HB3	2.00	0.43
17:B1:671:PHE:HA	17:B1:674:LEU:HG	2.00	0.43
18:C1:407:LEU:HA	18:C1:410:GLU:HG2	2.00	0.43
18:C1:1073:LYS:HA	18:C1:1073:LYS:HD3	1.86	0.43
18:C1:1209:GLN:OE1	18:C1:1487:ARG:NH1	2.49	0.43
18:C1:1801:ARG:HE	18:C1:1840:TRP:HE1	1.66	0.43
18:C2:1573:TYR:HE1	18:C2:1824:ARG:HG2	1.84	0.43
18:C3:1032:ARG:HD2	18:C3:1073:LYS:HD2	2.00	0.43
19:D3:349:GLU:OE1	19:D3:351:HIS:N	2.45	0.43
19:D7:95:GLN:O	19:D7:100:LYS:NZ	2.31	0.43
19:D7:369:ASP:HA	19:D7:372:LYS:HG2	2.00	0.43
20:E0:100:ARG:HH21	20:E0:104:ILE:HD11	1.83	0.43
20:E1:49:LEU:HG	20:E1:127:LEU:HD21	2.01	0.43
20:E1:424:THR:HG23	25:VE:218:THR:H	1.83	0.43
19:H0:88:LEU:HD11	19:H0:106:CYS:HB3	2.01	0.43
19:H3:54:VAL:HA	19:H3:55:PRO:HD3	1.80	0.43
19:H4:218:VAL:O	19:H4:226:LYS:NZ	2.34	0.43
19:H4:253:PHE:HE1	19:H4:275:VAL:HG23	1.84	0.43
19:H4:283:PRO:HB3	19:H4:323:PHE:HB3	2.01	0.43
19:H6:149:LEU:HA	19:H6:152:ILE:HG22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:H7:153:ALA:HA	19:H7:159:LEU:HD23	2.01	0.43
19:J0:332:ILE:HD13	19:J0:370:HIS:HA	2.00	0.43
19:J1:237:ALA:HB2	19:J1:247:VAL:HG21	1.99	0.43
19:J2:33:ASN:O	19:J2:33:ASN:ND2	2.48	0.43
19:K0:52:ASP:OD1	19:K0:53:ASN:N	2.52	0.43
19:L0:52:ASP:O	19:L0:58:GLN:NE2	2.52	0.43
19:L2:27:MET:HE1	19:L3:5:ALA:HB3	2.01	0.43
19:L3:269:LYS:HD3	19:L3:309:ASN:HB3	2.01	0.43
23:N0:53:LEU:HD23	23:N0:53:LEU:HA	1.86	0.43
23:N2:127:LEU:HD11	23:N2:141:VAL:HG13	2.01	0.43
25:NC:54:ALA:HB3	25:NC:58:ARG:HB3	2.00	0.43
24:NF:317:LEU:HB3	24:NF:319:TYR:HE1	1.84	0.43
24:NJ:224:TYR:HB2	25:NK:245:GLN:HE21	1.83	0.43
25:NO:19:LYS:NZ	25:NO:223:GLY:O	2.52	0.43
26:O1:192:GLU:HA	26:O1:195:GLU:HG2	2.00	0.43
26:O2:190:GLN:O	26:O2:194:ILE:HG12	2.19	0.43
25:OC:49:VAL:HG21	25:OC:241:ARG:HG2	2.00	0.43
25:OC:113:ILE:HA	25:OC:116:VAL:HG22	2.01	0.43
24:OD:427:ALA:HA	24:OD:430:LYS:HG2	1.99	0.43
25:OE:286:VAL:HG23	25:OE:287:PRO:HD3	2.01	0.43
24:OF:272:TYR:HB3	24:OF:275:ILE:HD11	1.99	0.43
24:OF:417:GLU:HA	24:OF:420:GLU:HG3	2.00	0.43
24:OL:288:VAL:HA	24:OL:291:ILE:HG12	2.00	0.43
25:OO:321:MET:SD	25:OO:321:MET:N	2.91	0.43
25:PC:184:ASN:OD1	25:PC:398:TYR:OH	2.32	0.43
24:PD:402:ARG:NE	24:PD:415:GLU:OE1	2.51	0.43
25:PK:22:GLU:HA	25:PK:81:TYR:HD2	1.83	0.43
25:PM:396:HIS:HA	25:PM:399:THR:HG22	2.00	0.43
24:PN:288:VAL:HG13	24:PN:319:TYR:HE2	1.83	0.43
28:Q0:3047:ARG:HD3	28:Q0:3071:PRO:HG2	2.00	0.43
28:Q1:770:VAL:HG22	28:Q1:1023:LEU:HD13	2.01	0.43
25:QC:113:ILE:HA	25:QC:116:VAL:HG22	2.00	0.43
25:QG:134:GLN:HG3	25:QG:165:LEU:HD23	2.00	0.43
24:QJ:108:TYR:HA	24:QJ:112:LYS:HZ2	1.83	0.43
25:RI:135:VAL:HG11	25:RI:152:ILE:HD11	2.00	0.43
25:RI:350:LYS:HE2	25:RI:350:LYS:HB3	1.78	0.43
24:RL:327:ASP:HA	24:RL:330:ALA:HB3	2.00	0.43
24:RN:21:TRP:HA	24:RN:24:TYR:HB2	2.01	0.43
24:RN:96:LYS:NZ	25:RO:129:CYS:O	2.51	0.43
25:RO:65:LEU:HD12	25:RO:90:PHE:CE1	2.54	0.43
24:RP:325:PRO:O	24:RP:329:ASN:ND2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:S2:62:GLU:O	30:S2:66:ILE:HG13	2.18	0.43
25:SM:350:LYS:HD3	25:SM:350:LYS:HA	1.80	0.43
25:SO:47:ILE:HG22	25:SO:51:PHE:HB2	2.00	0.43
25:SO:256:ASN:HD22	25:SO:350:LYS:HD2	1.83	0.43
24:TB:170:THR:HG21	24:TB:194:LEU:HD21	2.01	0.43
25:TC:162:ARG:HA	25:TC:162:ARG:HD3	1.83	0.43
24:TD:223:THR:HG23	24:TD:225:THR:H	1.83	0.43
25:TE:412:GLU:O	25:TE:416:ASN:ND2	2.51	0.43
25:TI:19:LYS:HB3	25:TI:19:LYS:HE2	1.75	0.43
25:TI:375:GLN:O	25:TI:379:LYS:N	2.51	0.43
25:TK:298:ASN:O	25:TK:298:ASN:ND2	2.52	0.43
25:TM:263:LEU:HG	25:TM:422:TYR:HE1	1.84	0.43
24:TN:187:SER:HB2	24:TN:391:LEU:HD11	2.01	0.43
24:TP:49:PHE:HB2	24:TP:53:PHE:HB2	2.01	0.43
24:UB:259:LEU:HD23	24:UB:268:MET:HG2	2.01	0.43
24:UF:3:GLU:OE2	24:UF:130:THR:N	2.47	0.43
24:UF:101:ASN:N	25:UG:252:LYS:HZ2	2.16	0.43
24:UP:206:ASN:ND2	44:UP:501:GTP:O2'	2.52	0.43
25:VE:198:GLU:HA	25:VE:264:HIS:HB2	2.01	0.43
25:VG:219:THR:HA	24:VH:326:LYS:HZ2	1.82	0.43
25:VK:3:GLU:OE2	25:VK:3:GLU:N	2.52	0.43
25:VK:17:GLY:HA2	25:VK:20:PHE:HB3	2.01	0.43
25:VK:60:VAL:HG11	25:VK:86:ARG:HG3	2.01	0.43
25:VM:114:ASP:OD1	25:VM:114:ASP:N	2.52	0.43
25:VO:207:LEU:HA	25:VO:210:ILE:HG12	2.01	0.43
25:WE:138:SER:HA	25:WE:169:VAL:H	1.84	0.43
24:WL:10:GLY:O	24:WL:14:ILE:HG12	2.18	0.43
39:X0:140:PRO:HB2	39:X0:143:LEU:HG	2.01	0.43
39:X2:233:GLN:HB2	39:X2:255:ARG:HB2	2.01	0.43
39:X2:493:TRP:O	39:X2:497:HIS:ND1	2.50	0.43
39:X3:266:ARG:HE	39:X3:508:TRP:HA	1.83	0.43
25:XA:165:LEU:HB3	25:XA:167:PHE:HE2	1.84	0.43
24:XF:255:PHE:HE1	24:XF:318:MET:HE3	1.83	0.43
25:XG:206:ALA:O	25:XG:210:ILE:HG13	2.18	0.43
25:XO:313:ALA:HB1	25:XO:367:PHE:HE2	1.84	0.43
40:Y2:225:ARG:HD2	40:Y3:101:TYR:CE1	2.52	0.43
40:Y3:284:ILE:HB	40:Y3:333:VAL:HA	2.00	0.43
40:Y6:444:ARG:HG2	40:Y7:444:ARG:HG2	2.01	0.43
24:YB:105:ARG:HG3	24:YB:411:GLU:HG3	2.01	0.43
25:YC:140:GLY:O	25:YC:184:ASN:ND2	2.51	0.43
24:YD:9:ILE:HG22	24:YD:146:GLY:HA2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:YF:76:ASP:HA	24:YF:79:ARG:HD2	2.01	0.43
24:YF:311:LYS:N	24:YF:382:THR:OG1	2.43	0.43
25:YO:156:ARG:HD3	25:YO:160:PRO:HA	2.00	0.43
41:Z0:303:ILE:HG13	41:Z0:307:ARG:HB3	2.00	0.43
25:ZC:175:VAL:HG11	24:ZD:329:ASN:HB3	2.01	0.43
24:ZF:238:LEU:HD12	24:ZF:239:THR:HG23	2.01	0.43
24:ZH:296:PHE:CE2	24:ZH:335:ILE:HG13	2.53	0.43
25:ZI:128:ASP:OD1	25:ZI:128:ASP:N	2.52	0.43
24:ZL:231:ILE:O	24:ZL:235:ILE:HG12	2.19	0.43
25:ZO:282:ARG:HH21	25:ZO:288:GLU:HG3	1.84	0.43
2:1C:2109:CYS:SG	2:1C:2110:LEU:N	2.92	0.43
2:1C:2140:VAL:HG13	2:1C:2286:ARG:HG2	2.00	0.43
2:1C:2160:THR:HG21	2:1C:2294:ASP:HB2	2.00	0.43
2:1D:79:ASN:OD1	2:1D:80:SER:N	2.52	0.43
2:1D:1922:TRP:HB3	2:1D:1923:ARG:H	1.47	0.43
4:2B:211:ARG:HE	4:2B:214:LEU:HD12	1.84	0.43
11:5D:235:LEU:HA	11:5D:281:ALA:HB1	1.99	0.43
14:8C:52:ALA:HA	25:XG:19:LYS:HZ1	1.84	0.43
17:B1:446:GLU:O	17:B1:450:ARG:HG3	2.18	0.43
17:B2:263:PRO:HD3	24:QD:422:ARG:HH21	1.84	0.43
18:C0:859:PRO:HA	18:C0:860:PRO:HD3	1.89	0.43
18:C1:620:ARG:HD2	18:C1:620:ARG:HA	1.83	0.43
18:C1:1192:GLU:HA	18:C1:1195:ARG:HG2	2.00	0.43
18:C1:1222:LEU:HD21	18:C1:1530:LEU:HD11	2.00	0.43
18:C2:1392:TRP:CE2	18:C2:1441:LEU:HB2	2.54	0.43
18:C2:1662:LEU:HB2	18:C2:1766:LEU:HB3	2.01	0.43
19:D1:235:GLN:HA	19:D1:238:LYS:HZ2	1.84	0.43
19:D2:324:SER:HB3	19:D2:327:LEU:HD13	2.01	0.43
19:D6:273:THR:O	19:D6:276:ARG:HG2	2.19	0.43
19:D7:4:ARG:HD2	24:VB:423:GLU:HB3	1.99	0.43
20:E0:52:LYS:HE3	20:E0:52:LYS:HB2	1.87	0.43
20:E3:347:LEU:HA	20:E3:350:LEU:HG	2.00	0.43
21:F2:52:LYS:HA	21:F2:52:LYS:HD3	1.90	0.43
19:G0:375:ALA:HA	19:G0:380:LEU:HD23	2.00	0.43
19:H1:63:LEU:O	19:H1:67:ARG:HG2	2.17	0.43
19:H1:401:ARG:HH11	19:H1:405:LYS:HE3	1.83	0.43
19:H2:248:VAL:HG21	19:H2:285:LEU:HD22	2.00	0.43
19:H3:306:ALA:O	19:H3:310:ARG:NH1	2.51	0.43
19:H6:319:TYR:HE1	19:H6:358:TRP:HE1	1.66	0.43
19:I0:54:VAL:HB	19:I0:57:ILE:HD12	2.00	0.43
19:I0:108:ARG:O	19:I0:112:ARG:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:J1:30:ASN:O	19:J1:34:ILE:HG12	2.18	0.43
19:J3:147:TRP:CD1	19:J3:186:ILE:HG12	2.53	0.43
19:K1:358:TRP:HA	19:K1:400:CYS:SG	2.58	0.43
19:K2:191:LEU:HD23	19:K2:191:LEU:HA	1.91	0.43
19:L1:128:ASP:OD1	19:L1:129:SER:N	2.52	0.43
19:L2:72:SER:HB3	19:L2:75:LEU:HG	2.00	0.43
19:L2:448:ARG:HA	19:L2:451:PHE:CD2	2.54	0.43
22:M1:352:ARG:HH22	25:TI:412:GLU:HG2	1.83	0.43
25:NE:253:LEU:HD21	25:NE:316:LEU:HD21	2.01	0.43
24:NF:205:ASP:HB3	24:NF:303:VAL:HA	2.00	0.43
25:NG:113:ILE:HG13	25:NG:150:LEU:HD22	2.00	0.43
25:NI:281:TYR:CE2	25:ZI:87:PRO:HD3	2.54	0.43
25:NM:74:ASP:OD1	25:NM:77:ARG:NH1	2.51	0.43
24:NN:210:TYR:CE2	24:NN:227:LEU:HD11	2.54	0.43
25:OE:175:VAL:HG11	24:OF:329:ASN:HB3	2.00	0.43
25:OI:173:PRO:HG3	25:OI:380:ARG:CZ	2.48	0.43
25:OK:193:VAL:HG23	25:OK:264:HIS:HE1	1.83	0.43
24:OL:88:HIS:HB3	24:OL:91:GLN:HG2	2.00	0.43
24:ON:288:VAL:HG13	24:ON:319:TYR:HE2	1.82	0.43
25:OO:282:ARG:HA	25:OO:282:ARG:HD3	1.90	0.43
25:OO:383:GLU:HA	25:OO:386:THR:HG22	2.00	0.43
24:PD:147:SER:HB2	24:PD:190:SER:HB3	2.01	0.43
25:PE:3:GLU:OE2	25:PE:129:CYS:N	2.51	0.43
25:PE:220:PRO:HD2	24:PF:326:LYS:HZ2	1.83	0.43
24:PF:100:ALA:N	44:PF:501:GTP:O2G	2.50	0.43
24:PH:115:VAL:HG23	24:PH:153:LEU:HD22	1.99	0.43
25:PI:139:LEU:HD12	25:PI:170:VAL:HG22	1.99	0.43
24:PL:423:GLU:HA	24:PL:426:ALA:HB3	2.01	0.43
25:PM:54:ALA:HB3	25:PM:58:ARG:HB3	2.01	0.43
25:PO:237:THR:HB	25:PO:240:LEU:HD12	2.01	0.43
24:PP:72:PRO:HA	24:PP:75:VAL:HG12	2.01	0.43
28:Q0:770:VAL:HG22	28:Q0:1023:LEU:HD13	2.00	0.43
28:Q1:107:ASP:O	28:Q1:111:ARG:HG3	2.18	0.43
28:Q1:537:ARG:HE	28:Q1:537:ARG:HB2	1.69	0.43
28:Q1:1492:ARG:O	28:Q1:1496:ILE:HG12	2.18	0.43
24:QD:195:LEU:O	24:QD:266:HIS:NE2	2.52	0.43
24:QD:297:GLU:O	24:QD:300:SER:OG	2.31	0.43
24:QH:115:VAL:HG21	24:QH:152:LEU:HG	2.01	0.43
24:QH:219:ILE:HG23	24:QH:222:PRO:HG3	2.01	0.43
25:QK:105:HIS:CD2	25:QK:150:LEU:HB2	2.54	0.43
24:QL:109:THR:HG22	24:QL:110:ILE:HG23	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:QO:2:ARG:HD2	25:QO:240:LEU:HD22	2.00	0.43
24:RD:286:LEU:HB3	24:RD:373:ARG:HE	1.84	0.43
25:RE:171:PRO:HG2	25:RE:185:ALA:HB2	2.01	0.43
24:RF:77:GLU:HA	24:RF:80:THR:HG22	2.01	0.43
24:RF:251:ASP:N	24:RF:254:GLU:OE2	2.40	0.43
24:RH:391:LEU:HD23	24:RH:391:LEU:HA	1.88	0.43
25:RK:68:LEU:HB3	25:RK:96:GLY:HA2	2.00	0.43
25:RM:209:ASP:O	25:RM:213:ARG:HG2	2.19	0.43
24:RP:36:MET:HG3	24:RP:61:HIS:NE2	2.33	0.43
30:S1:111:VAL:HA	25:VI:77:ARG:HH21	1.82	0.43
25:SC:165:LEU:HG	25:SC:250:LEU:HD21	2.00	0.43
24:SD:166:LYS:H	24:SD:199:ASP:HB2	1.84	0.43
24:SH:127:ASP:OD2	24:TH:293:ASN:ND2	2.50	0.43
24:SH:414:GLU:HG2	24:SH:416:GLY:H	1.84	0.43
24:TB:352:LYS:HA	24:TB:352:LYS:HD3	1.78	0.43
24:TD:272:TYR:HB3	24:TD:275:ILE:HD11	2.00	0.43
25:TE:269:GLY:HA2	25:TE:300:MET:HG3	2.00	0.43
24:TF:175:PRO:HB3	24:TF:390:ARG:HD2	2.01	0.43
24:TH:27:GLU:HB3	24:TH:244:PHE:HZ	1.83	0.43
24:TH:317:LEU:HB3	24:TH:319:TYR:HE1	1.83	0.43
24:TJ:343:PHE:HE2	24:TJ:350:GLY:HA3	1.84	0.43
25:TK:114:ASP:OD1	25:TK:115:SER:N	2.52	0.43
24:TL:182:VAL:HG11	25:TM:255:VAL:HG22	2.00	0.43
25:TM:8:GLN:HB2	25:TM:65:LEU:HD23	2.00	0.43
25:UC:237:THR:HG22	25:UC:250:LEU:HD21	2.00	0.43
25:UC:332:ASN:HB3	36:W6:66:UNK:HA	2.00	0.43
24:UD:255:PHE:HZ	24:UD:378:ILE:HG21	1.83	0.43
24:UF:70:LEU:HD12	24:UF:99:ALA:HB2	2.01	0.43
24:UF:224:TYR:HA	24:UF:227:LEU:HD23	1.99	0.43
24:UJ:273:ALA:HB3	24:UJ:375:VAL:H	1.84	0.43
25:UM:135:VAL:HG21	25:UM:152:ILE:HD11	2.00	0.43
25:UM:213:ARG:NH2	25:UM:297:LYS:O	2.52	0.43
25:VC:156:ARG:NH1	25:VC:195:ASN:O	2.46	0.43
24:VD:17:GLY:HA2	24:VD:20:CYS:HB2	2.01	0.43
24:VD:273:ALA:HB3	24:VD:375:VAL:HB	2.00	0.43
24:VJ:122:ILE:O	24:VJ:126:ALA:N	2.49	0.43
24:VL:99:ALA:HA	24:VL:110:ILE:HD11	2.00	0.43
24:VL:132:LEU:HB3	24:VL:164:LYS:HZ1	1.84	0.43
24:VL:292:THR:OG1	24:VL:319:TYR:OH	2.31	0.43
25:VM:204:ASN:OD1	46:VM:501:GDP:O2'	2.37	0.43
24:VN:27:GLU:HG3	24:VN:243:ARG:HH21	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:W1:1504:PRO:HA	35:W1:1580:LEU:HA	2.01	0.43
24:WB:2:ARG:HG2	24:WB:242:LEU:HB3	2.00	0.43
25:WK:176:SER:OG	25:WK:178:THR:O	2.37	0.43
24:WN:21:TRP:CZ2	24:WN:65:CYS:HB2	2.53	0.43
39:X0:419:ARG:NH2	39:X0:486:ARG:HH12	2.17	0.43
39:X2:207:CYS:HB3	39:X2:210:LEU:HD23	2.01	0.43
39:X2:710:ALA:HA	39:X2:770:LEU:HA	2.00	0.43
24:XB:222:PRO:HB3	24:XB:226:ASN:HD22	1.84	0.43
25:XC:334:GLN:HE22	25:XC:347:ASN:HA	1.84	0.43
24:XH:392:ASP:OD2	24:XH:422:ARG:NH1	2.52	0.43
25:XK:290:THR:HG21	25:XK:329:GLN:HB3	2.01	0.43
25:XM:253:LEU:HB3	25:XM:257:LEU:HD12	2.00	0.43
40:Y0:335:SER:HA	40:Y0:358:GLN:HB3	1.99	0.43
40:Y7:44:PRO:HA	40:Y7:45:PRO:HD3	1.83	0.43
40:Y7:79:VAL:HG11	40:Y7:151:ASN:HB2	2.00	0.43
24:YB:223:THR:OG1	24:YB:224:TYR:N	2.52	0.43
25:YE:67:ASP:OD1	25:YE:67:ASP:N	2.51	0.43
25:YE:290:THR:HG21	25:YE:329:GLN:HB3	2.01	0.43
25:YI:317:PHE:HB2	25:YI:353:VAL:HG12	1.99	0.43
25:YI:385:PHE:HZ	25:YI:408:PHE:HB3	1.83	0.43
24:YJ:180:ALA:N	24:YJ:183:GLU:OE2	2.52	0.43
24:YL:180:ALA:HB3	24:YL:183:GLU:HG3	2.00	0.43
24:YL:278:ALA:HA	24:YL:369:ALA:HB2	2.00	0.43
24:YP:234:VAL:O	24:YP:237:SER:OG	2.37	0.43
41:Z0:200:ASN:HB3	41:Z0:215:LEU:HD11	2.01	0.43
24:ZB:292:THR:HG21	24:ZB:331:SER:HB3	2.01	0.43
25:ZC:323:THR:HG22	25:ZC:353:VAL:HG21	2.00	0.43
24:ZD:205:ASP:HB3	24:ZD:303:VAL:HA	2.00	0.43
24:ZF:105:ARG:HA	24:ZF:109:THR:HB	1.99	0.43
2:1A:1924:ARG:HG3	2:1A:1926:ARG:HD3	2.01	0.43
2:1B:1521:GLN:HA	2:1B:1963:LEU:HD12	1.99	0.43
2:1B:2076:ARG:HB3	18:C1:1578:GLU:HG3	2.01	0.43
2:1C:1248:ALA:HB3	2:1C:1355:LEU:HD22	1.99	0.43
2:1D:1328:THR:O	2:1D:1331:GLN:NE2	2.50	0.43
2:1D:1801:LEU:HD12	2:1D:1904:ALA:HB2	2.01	0.43
2:1D:1960:ASN:OD1	2:1D:1961:ALA:N	2.52	0.43
2:1D:2046:LEU:HD13	2:1D:2110:LEU:HD13	2.00	0.43
2:1D:2060:LEU:O	2:1D:2091:LEU:HA	2.19	0.43
6:2I:533:PHE:HA	6:2I:545:GLU:HA	2.01	0.43
13:7J:99:GLY:O	13:7J:115:TRP:N	2.52	0.43
14:8B:91:HIS:H	24:VL:130:THR:HG22	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:8D:41:ARG:HB3	24:XD:2:ARG:NH2	2.34	0.43
14:8D:72:ARG:NH1	24:WD:47:ASP:H	2.16	0.43
17:B0:680:ARG:NH2	24:RL:345:ASP:HA	2.34	0.43
18:C1:1383:ALA:HA	18:C1:1386:LYS:HG3	2.01	0.43
18:C2:141:LYS:NZ	25:VM:401:GLU:O	2.45	0.43
18:C2:1636:ILE:HD11	18:C2:1674:PHE:HB2	1.99	0.43
18:C3:1801:ARG:HA	18:C3:1801:ARG:HD2	1.89	0.43
19:D0:137:PHE:CZ	21:F1:122:LYS:HG2	2.54	0.43
19:D0:156:ASN:ND2	19:D0:158:GLU:OE2	2.52	0.43
19:D0:280:LYS:HG3	19:D0:319:TYR:CE1	2.53	0.43
19:D3:242:ASP:OD1	19:D3:242:ASP:N	2.52	0.43
19:D4:338:PRO:HA	19:D4:341:VAL:HG22	2.00	0.43
19:D6:237:ALA:HB2	19:D6:247:VAL:HG21	2.01	0.43
19:D7:359:THR:HA	19:D7:362:GLN:HG2	2.01	0.43
19:D7:406:SER:O	19:D7:421:VAL:N	2.52	0.43
20:E0:120:ARG:NH2	20:E0:137:ASP:OD2	2.48	0.43
20:E0:154:GLY:HA3	24:TJ:113:GLU:HG3	2.00	0.43
20:E0:365:VAL:HG23	25:VK:337:ASN:HD21	1.84	0.43
20:E1:355:ARG:HE	20:E1:355:ARG:HB2	1.66	0.43
21:F3:87:PHE:HB3	21:F3:111:LEU:HB3	2.00	0.43
19:G0:338:PRO:HG2	19:G0:339:PRO:HD3	2.01	0.43
19:G1:318:GLY:HA3	19:G1:359:THR:HG22	2.00	0.43
19:G3:310:ARG:NH1	19:G3:346:GLU:OE1	2.52	0.43
19:G4:119:GLN:HA	19:G4:122:ILE:HD12	2.01	0.43
19:G4:252:ILE:HA	19:G4:255:LYS:HE2	2.01	0.43
19:G5:383:LEU:HD22	19:G5:401:ARG:NH2	2.34	0.43
19:H5:63:LEU:O	19:H5:67:ARG:HG2	2.18	0.43
19:J0:235:GLN:NE2	19:J0:236:ILE:HG13	2.34	0.43
19:J1:74:ASP:N	19:J1:74:ASP:OD1	2.52	0.43
19:K0:118:ALA:HB1	19:K0:152:ILE:HG13	2.01	0.43
19:K3:266:PHE:HA	19:K3:269:LYS:HE2	2.00	0.43
19:L1:233:LEU:HD13	19:L1:236:ILE:HD11	2.00	0.43
22:M0:814:ASP:OD1	22:M0:815:SER:N	2.51	0.43
23:N2:25:PHE:CD1	23:N3:60:ASP:HB3	2.54	0.43
25:NC:5:VAL:HG11	25:NC:120:VAL:HG23	2.00	0.43
24:ND:283:HIS:CD2	24:ZD:89:PRO:HD3	2.54	0.43
25:NG:318:ARG:HA	25:NG:354:CYS:HB2	2.00	0.43
24:NH:298:PRO:HB3	24:NH:307:PRO:HD2	2.01	0.43
24:NL:47:ASP:N	24:NL:47:ASP:OD2	2.52	0.43
25:NM:48:ASN:OD1	25:NM:48:ASN:N	2.52	0.43
25:NM:341:PHE:HB3	25:NM:348:ASN:ND2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:OC:209:ASP:HB2	25:OC:213:ARG:HH21	1.84	0.43
24:OD:132:LEU:HD22	24:OD:164:LYS:HG2	1.99	0.43
25:OE:3:GLU:HA	25:OE:49:VAL:HA	2.01	0.43
24:OJ:328:VAL:HG11	24:OJ:355:ILE:HD11	2.01	0.43
24:OL:98:ASP:OD1	24:OL:100:ALA:N	2.52	0.43
24:OL:222:PRO:HB3	24:OL:226:ASN:HD22	1.82	0.43
25:OO:51:PHE:HB3	25:OO:59:TYR:HB3	1.99	0.43
27:P2:1006:ASP:O	27:P2:1010:LEU:N	2.47	0.43
25:PC:372:THR:HA	25:PC:422:TYR:HD2	1.84	0.43
24:PD:25:CYS:HB2	24:PD:30:ILE:HB	2.00	0.43
24:PD:217:LEU:HG	24:PD:275:ILE:HG22	2.01	0.43
24:PF:224:TYR:HD2	25:PG:323:THR:HG1	1.67	0.43
25:PG:20:PHE:HA	25:PG:230:SER:HB2	2.00	0.43
24:PJ:248:LEU:HD12	24:PJ:355:ILE:HD12	2.00	0.43
24:PN:255:PHE:HZ	24:PN:378:ILE:HG21	1.83	0.43
25:PO:218:THR:HG23	25:PO:219:THR:HG22	2.01	0.43
28:Q0:2447:SER:O	28:Q0:2451:GLU:HG2	2.19	0.43
28:Q1:3077:LEU:HD23	28:Q1:3095:GLU:HB3	2.00	0.43
24:QF:177:VAL:HA	25:QG:331:LEU:HD21	2.00	0.43
24:QJ:254:GLU:O	24:QJ:258:ASN:ND2	2.52	0.43
24:QJ:389:SER:O	24:QJ:393:HIS:N	2.46	0.43
25:QK:237:THR:OG1	25:QK:241:ARG:NH1	2.52	0.43
25:QQ:396:HIS:HA	25:QQ:399:THR:HG22	2.01	0.43
25:RE:294:TRP:HE1	25:RE:330:MET:HE1	1.84	0.43
25:RE:397:TRP:CZ2	24:RF:256:GLN:HB3	2.54	0.43
25:RG:248:ALA:HA	25:RG:252:LYS:HD3	2.01	0.43
25:RG:253:LEU:HD11	25:RG:316:LEU:HD11	2.00	0.43
24:RH:25:CYS:O	24:RH:30:ILE:N	2.50	0.43
24:RH:205:ASP:HB3	24:RH:303:VAL:HA	2.01	0.43
25:RI:380:ARG:HA	25:RI:383:GLU:HG2	2.00	0.43
25:RK:139:LEU:HD12	25:RK:170:VAL:HG12	1.99	0.43
25:RM:68:LEU:HB3	25:RM:96:GLY:HA2	1.99	0.43
25:RM:412:GLU:HA	25:RM:415:MET:HB3	2.00	0.43
24:RP:67:PHE:HB2	24:RP:92:LEU:HD13	2.01	0.43
25:SC:16:ILE:HD11	25:SC:229:ILE:HB	2.01	0.43
25:SC:42:LEU:HD11	25:SC:243:PRO:HG3	2.01	0.43
25:SC:286:VAL:HA	25:SC:289:LEU:HB3	2.01	0.43
25:SG:179:VAL:HG23	24:SH:352:LYS:HB2	2.00	0.43
25:SI:336:LYS:HA	25:SI:336:LYS:HD3	1.77	0.43
25:SK:294:TRP:CD1	25:SK:333:VAL:HG21	2.54	0.43
25:SM:58:ARG:HD2	25:TM:280:GLN:NE2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:TF:268:MET:SD	24:TF:380:ASN:ND2	2.91	0.43
24:TH:90:GLU:HB2	24:UH:280:LYS:NZ	2.34	0.43
24:UD:221:ARG:CZ	25:UE:322:SER:HB3	2.49	0.43
24:UD:238:LEU:HD22	24:UD:378:ILE:HD11	2.00	0.43
25:UE:25:SER:O	25:UE:29:GLY:N	2.51	0.43
25:UE:326:VAL:O	25:UE:330:MET:HG2	2.19	0.43
24:UF:287:SER:N	24:UF:290:GLU:OE2	2.52	0.43
44:UF:501:GTP:O3G	25:UG:252:LYS:NZ	2.42	0.43
25:UI:375:GLN:O	25:UI:379:LYS:N	2.46	0.43
25:UO:198:GLU:HA	25:UO:264:HIS:HB2	2.01	0.43
25:UO:272:PRO:HG3	25:UO:364:SER:HA	1.99	0.43
24:UP:79:ARG:NH2	24:UP:92:LEU:O	2.51	0.43
24:VB:76:ASP:HA	24:VB:79:ARG:HD2	2.00	0.43
24:VF:228:ASN:OD1	44:VF:501:GTP:N1	2.48	0.43
25:VI:207:LEU:HB3	25:VI:225:LEU:HD22	2.01	0.43
24:VJ:272:TYR:HB3	24:VJ:275:ILE:HD11	1.99	0.43
24:VN:304:LYS:HD2	24:VN:304:LYS:HA	1.89	0.43
24:WD:180:ALA:HA	25:WE:350:LYS:HG2	2.00	0.43
24:WF:7:ILE:HG21	24:WF:153:LEU:HD21	2.00	0.43
25:WG:274:THR:HG21	25:WG:282:ARG:HE	1.83	0.43
25:WM:396:HIS:CD2	24:WN:263:PRO:HD3	2.54	0.43
25:WO:91:VAL:HG11	25:WO:116:VAL:HG12	2.01	0.43
25:XA:171:PRO:HG2	25:XA:185:ALA:HB2	2.01	0.43
25:XC:184:ASN:OD1	25:XC:398:TYR:OH	2.31	0.43
24:XD:336:LYS:HB2	24:XD:336:LYS:HE2	1.76	0.43
25:XE:221:THR:HA	24:XF:325:PRO:HD2	2.00	0.43
24:XF:121:ARG:HH21	24:XF:124:LYS:HG3	1.83	0.43
25:XI:114:ASP:OD1	25:XI:114:ASP:N	2.52	0.43
25:XM:236:ILE:HD12	25:XM:368:ILE:HD11	2.01	0.43
24:XN:206:ASN:OD1	44:XN:501:GTP:O2'	2.35	0.43
24:XN:398:MET:HG2	25:XO:345:ILE:HD13	2.01	0.43
40:Y0:101:TYR:HE2	40:Y1:225:ARG:HA	1.84	0.43
40:Y3:16:VAL:HA	40:Y3:19:VAL:HG12	2.00	0.43
40:Y5:2:SER:N	40:Y5:5:GLU:OE1	2.52	0.43
40:Y6:195:ILE:HD13	40:Y6:255:PHE:HB2	2.01	0.43
25:YC:67:ASP:OD2	25:YC:72:THR:OG1	2.37	0.43
25:YC:159:TYR:HB3	25:YC:162:ARG:HG3	2.01	0.43
25:YE:237:THR:HG23	25:YE:241:ARG:HE	1.83	0.43
25:YI:68:LEU:HB2	25:YI:143:THR:HG23	2.01	0.43
24:YN:9:ILE:HG12	24:YN:68:LEU:HD21	2.01	0.43
25:YO:10:GLY:O	25:YO:14:ASN:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:YO:99:ASN:HD22	25:YO:142:GLY:H	1.67	0.43
41:Z1:285:GLN:HA	41:Z1:304:THR:HA	2.00	0.43
41:Z1:344:GLY:H	41:Z1:371:PRO:HB2	1.83	0.43
41:Z2:142:GLU:HB2	41:Z2:144:LYS:HZ3	1.83	0.43
25:ZG:156:ARG:HD2	25:ZG:156:ARG:HA	1.87	0.43
25:ZG:218:THR:HG23	25:ZG:219:THR:HG23	2.00	0.43
24:ZL:65:CYS:SG	24:ZL:66:ILE:N	2.92	0.43
24:ZL:239:THR:O	24:ZL:243:ARG:NH1	2.51	0.43
2:1A:2058:ARG:O	2:1A:2093:ALA:HA	2.18	0.43
2:1A:2495:LYS:HZ1	18:C0:1167:GLU:HG3	1.84	0.43
2:1D:1797:ARG:NH2	2:1D:1920:ASP:HB3	2.34	0.43
13:7I:122:GLY:O	13:7I:138:TRP:N	2.52	0.43
15:9E:968:VAL:O	15:9E:1075:VAL:HA	2.18	0.43
17:B1:315:LEU:HD21	24:QN:156:ARG:HD2	2.00	0.43
17:B1:671:PHE:HB2	33:U0:150:GLN:HE21	1.83	0.43
18:C1:555:ARG:NH1	18:C1:557:ASP:HB2	2.34	0.43
18:C4:21:LEU:HD12	18:C4:91:PRO:HB3	2.00	0.43
19:D0:406:SER:O	19:D0:421:VAL:N	2.52	0.43
19:D1:295:VAL:HG11	19:D1:331:VAL:HA	2.00	0.43
19:D4:306:ALA:HB3	19:D4:309:ASN:HB2	2.00	0.43
19:D5:46:LEU:HA	19:D5:49:LEU:HD12	2.01	0.43
21:F0:441:VAL:HA	21:F0:456:VAL:HA	1.99	0.43
21:F1:82:ILE:HA	21:F1:178:ARG:NH1	2.31	0.43
19:H0:17:ARG:NH2	19:H1:45:LEU:HD11	2.34	0.43
19:H5:13:TYR:HE1	19:H5:17:ARG:HH11	1.67	0.43
19:H7:54:VAL:HB	19:H7:57:ILE:HD12	2.01	0.43
19:J1:122:ILE:HD13	19:J1:162:GLN:HE21	1.83	0.43
19:J1:395:ASP:OD1	19:J1:396:LEU:N	2.52	0.43
19:L3:352:LEU:HA	19:L3:352:LEU:HD23	1.83	0.43
23:N2:62:LEU:HD12	23:N3:25:PHE:HZ	1.83	0.43
24:NB:195:LEU:HD13	24:NB:264:ARG:HH21	1.84	0.43
25:NG:221:THR:HA	24:NH:325:PRO:HD2	2.01	0.43
25:NG:391:ARG:O	24:NH:262:TYR:OH	2.21	0.43
25:NI:47:ILE:HG22	25:NI:51:PHE:HB2	2.00	0.43
24:NL:88:HIS:NE2	24:ON:284:GLU:OE2	2.48	0.43
24:OH:20:CYS:SG	24:OH:21:TRP:N	2.91	0.43
25:OQ:392:LYS:HG2	25:OQ:395:LEU:HD13	2.01	0.43
24:PD:3:GLU:HA	24:PD:51:THR:HA	2.01	0.43
24:PL:288:VAL:HB	24:PL:327:ASP:HB3	2.00	0.43
25:PM:20:PHE:HB2	25:PM:233:MET:HE3	2.00	0.43
24:PN:177:VAL:HG13	25:PO:331:LEU:HD23	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:PO:272:PRO:HG3	25:PO:364:SER:HA	2.00	0.43
24:PP:80:THR:HA	24:PP:84:ARG:HD3	2.01	0.43
28:Q0:533:GLN:O	28:Q0:537:ARG:HB2	2.18	0.43
28:Q0:1519:LEU:HD13	28:Q0:2233:LEU:HD23	2.01	0.43
28:Q0:2964:LEU:HB2	28:Q0:2991:LEU:HD22	2.01	0.43
28:Q1:266:PRO:HA	28:Q1:269:GLN:HE21	1.84	0.43
28:Q1:2212:LEU:HB3	28:Q1:2255:TYR:HE2	1.84	0.43
24:QL:11:GLN:HG3	24:QL:74:VAL:HG21	2.01	0.43
25:QO:220:PRO:HD2	24:QP:326:LYS:HZ3	1.83	0.43
24:QP:14:ILE:O	24:QP:18:ASN:N	2.47	0.43
24:QP:319:TYR:CZ	24:QP:328:VAL:HG23	2.54	0.43
29:R0:1368:ALA:O	29:R0:1372:ALA:HB2	2.19	0.43
25:RM:232:VAL:O	25:RM:236:ILE:HG12	2.18	0.43
25:SC:313:ALA:HA	25:SC:369:GLY:HA2	2.01	0.43
24:SD:405:VAL:HG12	24:SD:409:VAL:HG23	2.01	0.43
24:SJ:196:GLU:HG3	24:SJ:197:HIS:ND1	2.34	0.43
25:SK:105:HIS:CE1	25:SK:150:LEU:HD12	2.54	0.43
25:SK:113:ILE:HA	25:SK:116:VAL:HG22	2.01	0.43
25:SO:131:GLN:HE21	25:SO:240:LEU:HD21	1.82	0.43
25:SO:396:HIS:HE1	24:SP:261:PRO:C	2.22	0.43
24:SP:77:GLU:HA	24:SP:80:THR:HG22	1.99	0.43
32:T0:517:ARG:NH1	24:YL:414:GLU:OE1	2.52	0.43
24:TD:97:GLU:OE2	24:TD:105:ARG:NH2	2.52	0.43
24:TD:101:ASN:N	25:TE:252:LYS:HZ1	2.17	0.43
25:TE:282:ARG:HD2	25:TE:288:GLU:HG3	2.00	0.43
25:TE:330:MET:HA	25:TE:333:VAL:HG22	1.99	0.43
24:TH:244:PHE:HB2	24:TH:356:ASN:HD21	1.83	0.43
25:TM:137:HIS:NE2	25:TM:166:THR:OG1	2.45	0.43
25:TO:210:ILE:O	25:TO:214:THR:OG1	2.28	0.43
24:UB:305:CYS:HB2	24:UB:387:ILE:HD11	2.01	0.43
24:UD:196:GLU:OE1	24:UD:196:GLU:N	2.49	0.43
24:UF:51:THR:HG21	24:UF:243:ARG:HA	2.00	0.43
25:UM:198:GLU:HB3	25:UM:258:ILE:HD11	2.01	0.43
24:UN:70:LEU:HD21	24:UN:114:ILE:HG21	2.00	0.43
34:V1:183:TRP:HA	34:V1:189:ASN:H	1.84	0.43
25:VE:138:SER:HB3	25:VE:169:VAL:HB	2.01	0.43
25:VG:334:GLN:HE22	25:VG:347:ASN:HA	1.84	0.43
24:VH:7:ILE:HG22	24:VH:66:ILE:HG12	1.99	0.43
24:VL:88:HIS:HD2	24:WL:283:HIS:HB2	1.84	0.43
25:VM:8:GLN:HB2	25:VM:65:LEU:HD23	2.01	0.43
25:VM:19:LYS:NZ	25:VM:227:HIS:HB2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:VO:54:ALA:HA	25:WO:283:ALA:HB2	2.01	0.43
24:VP:195:LEU:HD11	24:VP:428:LEU:HD22	2.01	0.43
24:VP:318:MET:HB2	24:VP:376:CYS:HB3	2.01	0.43
24:WB:315:CYS:HB3	24:WB:377:MET:HE1	2.00	0.43
25:WC:179:VAL:HG13	24:WD:350:GLY:HA2	2.01	0.43
24:WF:36:MET:HG3	24:WF:37:PRO:HD2	2.01	0.43
24:WH:89:PRO:HG2	24:XH:280:LYS:NZ	2.34	0.43
24:WN:169:PHE:HZ	24:WN:238:LEU:HD11	1.84	0.43
39:X2:508:TRP:CZ3	39:X2:606:ASN:HB2	2.54	0.43
24:XD:223:THR:OG1	24:XD:224:TYR:N	2.52	0.43
25:XK:25:SER:HB2	25:XK:30:ILE:HB	2.01	0.43
24:XN:319:TYR:O	24:XN:356:ASN:N	2.50	0.43
40:Y0:191:SER:HB2	40:Y0:211:MET:HB3	2.01	0.43
40:Y4:415:HIS:CD2	40:Y4:439:THR:HA	2.54	0.43
40:Y7:335:SER:HA	40:Y7:358:GLN:HB3	2.01	0.43
25:YC:98:GLY:O	24:YD:257:THR:OG1	2.22	0.43
25:YC:141:GLY:O	25:YC:184:ASN:ND2	2.52	0.43
24:YH:180:ALA:HA	25:YI:350:LYS:HG2	2.01	0.43
24:YJ:175:PRO:HB3	24:YJ:390:ARG:NE	2.34	0.43
24:YL:71:GLU:HG2	24:YL:73:THR:HG22	2.00	0.43
24:YN:328:VAL:HG11	24:YN:355:ILE:HD11	2.01	0.43
41:Z0:136:PHE:HD2	41:Z0:137:LEU:HD22	1.84	0.43
41:Z1:130:LYS:HE2	41:Z1:171:LEU:HG	2.01	0.43
41:Z3:437:TYR:O	41:Z3:475:ARG:NE	2.47	0.43
25:ZE:113:ILE:HA	25:ZE:116:VAL:HG12	2.00	0.43
24:ZH:298:PRO:HB3	24:ZH:307:PRO:HD2	2.01	0.43
24:ZN:317:LEU:HB3	24:ZN:319:TYR:HE1	1.83	0.43
2:1A:1542:ARG:HH22	2:1A:2049:ASN:ND2	2.11	0.42
2:1B:1607:VAL:HA	2:1B:1608:PRO:HD3	1.87	0.42
2:1C:1922:TRP:HB3	2:1C:1923:ARG:H	1.55	0.42
11:5A:456:THR:HA	11:5A:483:ILE:HA	2.00	0.42
13:7I:145:GLY:N	13:7I:161:PHE:O	2.51	0.42
17:B2:304:ARG:NH1	24:QF:424:ASP:OD1	2.52	0.42
18:C0:1307:ARG:HH22	18:C0:1331:ASP:HA	1.84	0.42
18:C1:1239:ARG:HA	18:C1:1242:LEU:HG	2.01	0.42
18:C1:1392:TRP:CE2	18:C1:1441:LEU:HB2	2.54	0.42
18:C1:1752:TRP:HA	18:C1:1766:LEU:HD12	2.01	0.42
18:C2:408:LEU:HG	18:C2:411:ARG:NH2	2.33	0.42
18:C2:1309:HIS:O	18:C2:1313:LYS:HG2	2.19	0.42
18:C3:474:TYR:HA	18:C3:477:VAL:HG12	2.01	0.42
18:C3:1367:LEU:HD21	18:C3:1459:ALA:HB1	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:D1:133:CYS:HB3	19:D1:141:VAL:HG22	2.01	0.42
19:D4:128:ASP:HA	19:D4:131:VAL:HG22	2.01	0.42
19:D4:138:ASP:OD2	19:D4:140:GLY:N	2.50	0.42
20:E1:337:PRO:HD3	23:N3:110:LEU:HD22	2.00	0.42
19:H0:181:LEU:HA	19:H0:184:LYS:HD2	2.00	0.42
19:I1:158:GLU:OE2	19:I1:162:GLN:NE2	2.33	0.42
19:J2:78:ALA:HA	19:J2:81:GLN:HE21	1.84	0.42
19:J2:406:SER:O	19:J2:422:HIS:N	2.51	0.42
19:J3:240:SER:HB2	19:J3:243:LEU:HD23	2.00	0.42
19:K0:58:GLN:OE1	19:K0:59:GLN:NE2	2.52	0.42
19:L1:24:VAL:HG11	19:L1:46:LEU:HD11	2.01	0.42
19:L2:432:MET:HE1	19:L2:450:GLN:HG3	2.01	0.42
22:M0:844:LEU:HD12	22:M0:845:PRO:HD2	2.01	0.42
23:N2:136:ASP:O	23:N2:139:ARG:HG3	2.18	0.42
24:NB:272:TYR:HD2	24:NB:275:ILE:HG12	1.84	0.42
24:ND:71:GLU:HB2	24:ND:98:ASP:HB3	2.01	0.42
24:NH:269:LEU:HD12	24:NH:384:ILE:HD11	2.01	0.42
24:NJ:280:LYS:HA	24:NJ:280:LYS:HD3	1.85	0.42
25:OM:309:ARG:N	25:OM:372:THR:OG1	2.51	0.42
24:ON:345:ASP:OD1	24:ON:345:ASP:N	2.50	0.42
24:PD:288:VAL:HG13	24:PD:319:TYR:HE2	1.84	0.42
25:PI:21:TRP:CH2	25:PI:61:PRO:HB3	2.54	0.42
25:PK:253:LEU:HD21	25:PK:316:LEU:HD11	2.01	0.42
25:PM:260:PHE:HB2	25:PM:263:LEU:HD12	2.01	0.42
25:PO:63:ALA:O	25:PO:89:ASN:ND2	2.45	0.42
24:PP:115:VAL:HG23	24:PP:153:LEU:HD22	1.99	0.42
28:Q0:1202:LEU:HD22	28:Q0:1237:VAL:HG22	2.01	0.42
28:Q1:2138:ASP:OD1	28:Q1:2138:ASP:N	2.50	0.42
28:Q1:2311:GLN:HA	28:Q1:2313:ARG:HH12	1.84	0.42
25:QG:20:PHE:HA	25:QG:230:SER:HB2	2.00	0.42
24:QH:327:ASP:HA	24:QH:330:ALA:HB3	2.00	0.42
25:QK:253:LEU:HD21	25:QK:316:LEU:HD11	2.01	0.42
24:QP:249:ASN:OD1	24:QP:249:ASN:N	2.51	0.42
25:QQ:202:LEU:HD13	25:QQ:229:ILE:HD13	2.01	0.42
25:QQ:376:GLU:HA	25:QQ:379:LYS:HG3	2.00	0.42
29:R0:155:VAL:HG23	29:R0:167:LEU:HD22	2.00	0.42
29:R1:45:LEU:HB2	29:R1:71:TYR:CE1	2.54	0.42
24:RF:91:GLN:HG3	24:RF:121:ARG:HD3	2.00	0.42
24:RF:271:SER:HA	24:RF:302:MET:HG3	1.99	0.42
25:RI:293:MET:HB3	25:RI:294:TRP:CD1	2.54	0.42
24:RL:137:VAL:HG11	24:RL:154:LEU:HD21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:RP:180:ALA:HB3	24:RP:183:GLU:HB3	2.00	0.42
30:S1:32:LYS:NZ	30:S1:37:PHE:O	2.50	0.42
30:S2:43:THR:N	24:XF:47:ASP:OD2	2.46	0.42
25:SE:292:GLN:OE1	25:SE:298:ASN:ND2	2.52	0.42
25:SG:324:LYS:HD3	25:SG:324:LYS:HA	1.79	0.42
24:SL:137:VAL:HG21	24:SL:154:LEU:HD21	2.00	0.42
24:SN:313:MET:N	24:SN:380:ASN:O	2.51	0.42
25:SO:31:ASP:OD1	25:SO:35:THR:N	2.52	0.42
32:T0:527:ASP:N	32:T0:527:ASP:OD1	2.50	0.42
24:TB:276:ILE:HG23	24:TB:280:LYS:HB3	2.00	0.42
25:TI:213:ARG:NH2	25:TI:297:LYS:HB3	2.34	0.42
25:TI:270:PHE:HE2	25:TI:364:SER:HB2	1.84	0.42
25:TK:203:ASP:OD1	25:TK:302:ALA:N	2.51	0.42
24:TN:175:PRO:HD3	24:TN:390:ARG:CZ	2.49	0.42
24:UD:229:ARG:HD3	24:UD:363:VAL:HG21	2.00	0.42
25:UE:221:THR:HA	24:UF:325:PRO:HD2	2.00	0.42
24:UL:222:PRO:O	25:UM:322:SER:OG	2.30	0.42
24:UN:244:PHE:HB2	24:UN:356:ASN:HD21	1.84	0.42
25:VC:253:LEU:HD21	25:VC:316:LEU:HD21	2.01	0.42
25:VK:220:PRO:HD2	24:VL:326:LYS:HD2	2.01	0.42
25:VM:139:LEU:HD12	25:VM:170:VAL:HG12	2.01	0.42
24:VN:23:LEU:HD11	24:VN:233:GLN:NE2	2.34	0.42
24:VN:317:LEU:HB3	24:VN:319:TYR:HE1	1.83	0.42
25:VO:337:ASN:OD1	25:VO:337:ASN:N	2.52	0.42
25:WE:71:GLY:H	24:WF:2:ARG:HH22	1.66	0.42
25:WI:199:CYS:HG	25:WI:264:HIS:CE1	2.37	0.42
25:WK:221:THR:HG22	24:WL:324:VAL:HG12	2.00	0.42
39:X0:177:ARG:NH1	40:Y0:218:SER:O	2.49	0.42
39:X3:297:LEU:HA	39:X3:320:VAL:HG22	2.00	0.42
25:XA:167:PHE:CE1	25:XA:233:MET:HG2	2.54	0.42
24:XB:241:SER:OG	24:XB:250:VAL:N	2.43	0.42
25:XC:259:PRO:HG2	25:XC:311:LEU:HD23	2.00	0.42
24:XD:231:ILE:O	24:XD:235:ILE:HG12	2.19	0.42
24:XH:76:ASP:HA	24:XH:79:ARG:HB2	2.01	0.42
25:XI:192:LEU:HD22	25:XI:196:ALA:HB2	2.01	0.42
25:XI:272:PRO:HG3	25:XI:364:SER:HA	2.00	0.42
25:XK:184:ASN:OD1	25:XK:398:TYR:OH	2.34	0.42
40:Y0:43:THR:HG22	40:Y1:32:LEU:HG	2.01	0.42
40:Y1:200:HIS:CE1	40:Y1:208:GLN:HG3	2.53	0.42
40:Y2:165:ALA:HB1	40:Y2:172:LEU:HA	2.01	0.42
40:Y6:199:SER:HB3	40:Y6:292:GLU:HG2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:Y6:444:ARG:NE	40:Y6:446:GLU:OE2	2.52	0.42
25:YC:405:GLU:HA	25:YC:408:PHE:HD2	1.84	0.42
25:YI:285:THR:HG22	25:YI:287:PRO:HD2	2.01	0.42
24:YJ:273:ALA:HB1	24:YJ:291:ILE:HB	2.00	0.42
24:YL:11:GLN:NE2	24:YL:15:GLN:OE1	2.52	0.42
25:YM:99:ASN:ND2	24:YN:254:GLU:OE2	2.40	0.42
25:YM:202:LEU:HD11	25:YM:300:MET:HE3	1.99	0.42
41:Z0:206:LEU:HG	41:Z0:346:SER:HB2	2.01	0.42
41:Z1:43:VAL:HG11	41:Z1:121:ILE:HG23	2.00	0.42
41:Z3:602:LEU:HA	41:Z3:605:LEU:HG	2.00	0.42
24:ZH:268:MET:HG3	24:ZH:380:ASN:HB2	2.01	0.42
25:ZI:354:CYS:SG	25:ZI:355:ASP:N	2.92	0.42
25:ZI:421:GLU:HA	25:ZI:424:GLN:HG3	2.01	0.42
25:ZM:167:PHE:CE1	25:ZM:233:MET:HG2	2.53	0.42
25:ZO:246:LEU:HD22	25:ZO:352:SER:HA	2.00	0.42
2:1B:2146:ASN:HD21	2:1B:2150:THR:HB	1.84	0.42
2:1B:2163:GLN:HB2	2:1B:2244:ASP:HB2	2.00	0.42
2:1B:2464:LYS:HA	2:1B:2467:ARG:HE	1.84	0.42
2:1C:2181:GLN:NE2	2:1C:2188:GLU:OE2	2.52	0.42
2:1C:2248:LYS:O	2:1C:2252:TYR:OH	2.27	0.42
2:1D:1362:ARG:NH1	43:1D:2602:ANP:O2A	2.52	0.42
13:7B:110:SER:O	13:7B:126:TYR:HA	2.19	0.42
14:8C:169:GLY:H	24:SH:48:ALA:HB2	1.84	0.42
16:A3:102:LEU:HD22	16:A3:113:GLY:H	1.83	0.42
17:B0:614:THR:HB	17:B0:618:LYS:NZ	2.34	0.42
18:C0:1586:LEU:HD12	18:C0:1591:ALA:HB3	2.00	0.42
18:C1:577:ALA:O	18:C1:579:GLN:NE2	2.43	0.42
18:C1:1462:CYS:O	18:C1:1466:MET:HG2	2.18	0.42
18:C1:1605:LEU:HG	18:C1:1609:ARG:HD2	2.01	0.42
18:C2:935:LYS:HB2	18:C2:935:LYS:HE2	1.84	0.42
18:C2:1611:TYR:HB3	18:C2:1619:LEU:HD13	1.99	0.42
18:C3:131:LEU:O	18:C3:135:GLN:HG2	2.18	0.42
18:C3:1188:GLU:OE1	18:C3:1189:GLN:NE2	2.52	0.42
18:C4:270:VAL:HG23	19:D6:315:MET:SD	2.59	0.42
19:D0:369:ASP:OD1	19:D0:369:ASP:N	2.52	0.42
19:D1:222:ASP:O	19:D1:226:LYS:HG2	2.18	0.42
19:D1:238:LYS:HB3	19:D1:238:LYS:HE3	1.86	0.42
19:D4:199:PRO:HG3	19:D4:239:HIS:HB3	2.01	0.42
19:D7:227:ARG:NH2	19:D7:264:ASP:OD2	2.52	0.42
19:G1:108:ARG:HG2	19:G1:151:TYR:HD2	1.83	0.42
19:G1:238:LYS:HD2	32:T0:583:LEU:HD23	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:G1:360:LEU:HD23	19:G1:363:ILE:HD12	2.00	0.42
19:G4:78:ALA:HA	19:G4:81:GLN:HE21	1.84	0.42
19:G5:397:LYS:HB2	19:G5:401:ARG:HH12	1.84	0.42
19:H0:95:GLN:HB3	19:H0:99:TYR:HD2	1.83	0.42
19:H0:105:PHE:HA	19:H0:108:ARG:NH1	2.34	0.42
19:H1:77:GLU:HA	19:H1:80:VAL:HG22	2.01	0.42
19:I1:158:GLU:HA	19:I1:161:GLN:HG3	2.00	0.42
19:J2:252:ILE:HA	19:J2:255:LYS:HE2	2.00	0.42
19:K1:270:HIS:O	19:K1:273:THR:OG1	2.31	0.42
19:L1:47:ARG:HG3	19:L1:84:ILE:HG12	2.01	0.42
19:L2:119:GLN:NE2	19:L2:158:GLU:OE1	2.52	0.42
22:M1:28:TYR:OH	26:O1:150:GLU:OE2	2.20	0.42
24:NB:3:GLU:O	24:NB:133:GLN:N	2.48	0.42
24:ND:203:MET:HG2	24:ND:384:ILE:HD11	1.99	0.42
24:ND:288:VAL:HA	24:ND:291:ILE:HG12	2.01	0.42
25:NG:248:ALA:HA	25:NG:252:LYS:HG3	2.00	0.42
25:NI:12:CYS:SG	25:NI:13:GLY:N	2.92	0.42
25:NM:195:ASN:OD1	25:NM:196:ALA:N	2.52	0.42
25:NO:123:GLU:O	25:NO:126:SER:OG	2.31	0.42
24:OD:205:ASP:HB2	24:OD:303:VAL:HG13	2.01	0.42
24:OD:288:VAL:HG13	24:OD:319:TYR:HE2	1.84	0.42
25:OE:3:GLU:OE2	25:OE:129:CYS:N	2.52	0.42
24:OF:168:GLY:O	24:OF:202:VAL:N	2.35	0.42
24:OH:209:ILE:HG23	24:OH:230:LEU:HD11	2.01	0.42
25:OK:271:THR:HG22	25:OK:298:ASN:HD21	1.84	0.42
25:OM:167:PHE:CZ	25:OM:200:MET:HG3	2.54	0.42
24:OP:217:LEU:HD22	24:OP:367:ASP:HB3	2.01	0.42
25:PC:181:GLU:N	25:PC:181:GLU:OE1	2.52	0.42
25:PC:320:ARG:HA	25:PC:320:ARG:HD3	1.88	0.42
25:PE:20:PHE:HA	25:PE:230:SER:HB2	2.00	0.42
44:PF:501:GTP:O3G	25:PG:252:LYS:NZ	2.51	0.42
25:PM:165:LEU:HG	25:PM:250:LEU:HD21	2.02	0.42
28:Q0:531:LEU:HD23	28:Q0:531:LEU:HA	1.94	0.42
28:Q0:677:ALA:HA	28:Q0:687:ARG:NH2	2.33	0.42
28:Q0:1830:LEU:HA	28:Q0:1833:VAL:HG22	2.00	0.42
28:Q1:1230:ALA:HA	28:Q1:1233:VAL:HG12	2.01	0.42
28:Q1:1533:PRO:HG3	28:Q1:1637:ASP:HB2	2.00	0.42
24:QD:3:GLU:HA	24:QD:51:THR:HA	2.01	0.42
25:QG:260:PHE:HD2	25:QG:263:LEU:HD12	1.84	0.42
24:QH:298:PRO:HG3	24:QH:308:ARG:HH21	1.83	0.42
24:QJ:203:MET:HB3	24:QJ:303:VAL:HG21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:QJ:253:THR:HA	24:QJ:256:GLN:HG2	2.01	0.42
25:QM:167:PHE:CE2	25:QM:200:MET:HE2	2.53	0.42
24:QN:70:LEU:HD21	24:QN:114:ILE:HG21	2.00	0.42
25:QO:36:TYR:HB2	25:QO:59:TYR:HE2	1.84	0.42
25:RG:83:GLN:O	25:SG:281:TYR:OH	2.27	0.42
25:RG:117:LEU:HA	25:RG:120:VAL:HG12	2.01	0.42
24:RJ:403:ALA:HB2	25:RK:344:TRP:HZ3	1.85	0.42
30:S0:19:PRO:HB3	24:XN:57:GLY:HA3	2.01	0.42
30:S0:38:LYS:HE3	25:XM:87:PRO:HB3	2.00	0.42
25:SC:68:LEU:HD23	25:SC:143:THR:HG23	2.01	0.42
25:SC:190:HIS:NE2	25:SC:410:GLU:OE1	2.52	0.42
24:SD:11:GLN:OE1	24:SD:15:GLN:NE2	2.48	0.42
25:SE:131:GLN:HE22	25:SE:250:LEU:HB3	1.83	0.42
24:SH:46:ASP:N	24:SH:46:ASP:OD2	2.52	0.42
24:SH:422:ARG:HD2	24:SH:422:ARG:HA	1.84	0.42
24:SJ:47:ASP:N	24:SJ:47:ASP:OD1	2.53	0.42
25:SO:221:THR:HA	24:SP:325:PRO:HD2	2.00	0.42
24:SP:191:THR:HG21	24:SP:388:PHE:HE1	1.84	0.42
32:T1:560:MET:HG3	24:YH:262:TYR:CD1	2.54	0.42
24:TD:177:VAL:HG13	25:TE:327:ASP:OD2	2.19	0.42
25:TE:144:GLY:N	46:TE:501:GDP:O2B	2.45	0.42
24:TH:267:PHE:HE2	24:TH:428:LEU:HD11	1.83	0.42
24:TJ:259:LEU:HD23	24:TJ:268:MET:HG2	2.01	0.42
25:TM:55:THR:HG23	25:UM:283:ALA:HA	2.00	0.42
24:UD:292:THR:OG1	24:UD:319:TYR:OH	2.30	0.42
25:UK:109:GLY:O	25:UK:113:ILE:HG12	2.19	0.42
25:UM:221:THR:HG23	25:UM:224:ASP:H	1.83	0.42
25:UM:336:LYS:HA	25:UM:336:LYS:HD3	1.76	0.42
24:VB:206:ASN:OD1	44:VB:501:GTP:O2'	2.27	0.42
25:VE:86:ARG:HG3	25:VE:88:ASP:H	1.84	0.42
24:VJ:289:ALA:O	24:VJ:293:ASN:ND2	2.38	0.42
24:VL:297:GLU:HG3	24:VL:299:ALA:H	1.84	0.42
25:WA:6:HIS:CE1	25:WA:8:GLN:HE21	2.36	0.42
25:WE:163:MET:HE3	25:WE:251:ARG:HE	1.83	0.42
25:WE:406:MET:O	25:WE:409:THR:OG1	2.24	0.42
24:WF:209:ILE:HG21	24:WF:227:LEU:HG	2.01	0.42
24:WH:192:HIS:CD2	24:WH:421:ALA:HA	2.54	0.42
24:WH:223:THR:HB	25:WI:322:SER:HA	1.99	0.42
24:WJ:237:SER:HA	24:WJ:320:ARG:HD2	2.02	0.42
24:WL:186:ASN:OD1	24:WL:408:TYR:OH	2.29	0.42
24:WL:416:GLY:O	24:WL:420:GLU:HG3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:WN:264:ARG:HH22	24:WN:427:ALA:HB3	1.84	0.42
39:X0:308:MET:HB2	39:X0:312:VAL:HG21	2.01	0.42
39:X1:881:PRO:HA	39:X1:918:SER:HA	2.01	0.42
25:XA:193:VAL:HG11	25:XA:418:LEU:HD11	2.01	0.42
25:XG:140:GLY:O	25:XG:184:ASN:ND2	2.51	0.42
25:XG:177:ASP:N	25:XG:181:GLU:OE2	2.52	0.42
40:Y4:79:VAL:HG21	40:Y4:151:ASN:HB2	2.00	0.42
40:Y5:180:ALA:O	40:Y5:477:TRP:NE1	2.47	0.42
24:YD:10:GLY:O	24:YD:14:ILE:HG12	2.19	0.42
24:YD:272:TYR:O	24:YD:300:SER:OG	2.36	0.42
25:YE:31:ASP:OD1	25:YE:35:THR:N	2.52	0.42
24:YJ:9:ILE:HD11	24:YJ:153:LEU:HD23	2.01	0.42
24:YJ:236:SER:O	24:YJ:320:ARG:NH1	2.52	0.42
25:YK:60:VAL:HG11	25:YK:86:ARG:HH21	1.84	0.42
25:YK:396:HIS:HA	25:YK:399:THR:HG22	2.02	0.42
25:YM:184:ASN:OD1	25:YM:398:TYR:OH	2.37	0.42
41:Z0:463:GLY:HA3	41:Z0:507:ILE:HD11	2.00	0.42
24:ZB:177:VAL:HG22	25:ZC:331:LEU:HB2	2.01	0.42
24:ZD:108:TYR:HA	24:ZD:112:LYS:NZ	2.34	0.42
24:ZH:377:MET:HE3	24:ZH:377:MET:HB2	1.92	0.42
25:ZI:190:HIS:ND1	25:ZI:411:ALA:HA	2.34	0.42
24:ZJ:210:TYR:OH	25:ZK:327:ASP:OD2	2.29	0.42
24:ZL:70:LEU:HB2	24:ZL:98:ASP:HA	2.01	0.42
25:ZM:184:ASN:OD1	25:ZM:398:TYR:OH	2.23	0.42
25:ZM:294:TRP:NE1	25:ZM:333:VAL:HG11	2.34	0.42
24:ZN:70:LEU:HA	24:ZN:95:GLY:HA3	2.01	0.42
24:ZN:305:CYS:HB3	24:ZN:387:ILE:HD11	2.01	0.42
25:ZO:391:ARG:HD2	24:ZP:346:TRP:CG	2.53	0.42
2:1A:1601:GLY:O	2:1A:1700:LYS:NZ	2.52	0.42
2:1B:1398:GLU:HB2	2:1B:1402:ARG:HH12	1.84	0.42
2:1B:1949:ARG:NH1	18:C1:1821:GLU:O	2.32	0.42
2:1B:2132:PRO:HB3	2:1B:2292:SER:HA	2.00	0.42
2:1C:1936:GLU:HB3	2:1C:1948:GLY:HA3	2.01	0.42
2:1C:1978:ASP:HB3	2:1C:1983:HIS:HE1	1.84	0.42
13:7F:161:PHE:HA	13:7F:166:GLY:HA3	2.02	0.42
14:8A:229:ARG:NH1	25:QO:111:GLU:OE1	2.52	0.42
14:8C:85:PRO:HG3	25:VG:87:PRO:HB3	2.01	0.42
14:8C:230:SER:N	25:QG:111:GLU:OE2	2.44	0.42
17:B1:456:ARG:NH2	25:RK:407:GLU:OE1	2.52	0.42
18:C0:1225:PHE:HA	18:C0:1245:ARG:HH22	1.84	0.42
18:C1:1806:GLN:HA	18:C1:1809:ARG:HE	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:C2:595:ARG:HB3	18:C2:822:ASP:HB2	2.01	0.42
18:C3:706:ASP:N	18:C3:706:ASP:OD1	2.50	0.42
19:D2:280:LYS:HA	19:D2:319:TYR:HD2	1.84	0.42
19:D4:107:LEU:HD13	19:D4:148:THR:HG21	2.01	0.42
19:D6:371:ALA:HA	19:D6:374:VAL:HG12	2.00	0.42
21:F1:80:VAL:HG13	21:F1:178:ARG:HH21	1.84	0.42
19:H0:185:ARG:NH2	19:H0:224:LYS:HB2	2.34	0.42
19:H1:49:LEU:HG	19:H1:61:ALA:HB2	2.02	0.42
19:H3:227:ARG:O	19:H3:270:HIS:ND1	2.52	0.42
19:H5:310:ARG:HB2	19:H5:352:LEU:HD22	2.01	0.42
19:H6:401:ARG:NH1	19:H6:402:ARG:HG2	2.34	0.42
19:H7:243:LEU:HA	19:H7:246:VAL:HG22	2.00	0.42
19:I1:97:ARG:NH1	19:I1:98:PHE:HB2	2.34	0.42
19:J3:180:GLU:O	19:J3:184:LYS:HG2	2.18	0.42
19:K0:295:VAL:HG11	19:K0:331:VAL:HG22	2.02	0.42
19:K1:405:LYS:HE3	19:K1:445:ALA:HB1	2.01	0.42
19:K2:318:GLY:HA3	19:K2:359:THR:HG22	2.01	0.42
19:L3:360:LEU:HA	19:L3:363:ILE:HG22	2.02	0.42
24:NB:73:THR:HA	25:NC:46:ARG:HH21	1.84	0.42
24:ND:89:PRO:HD2	24:OF:280:LYS:HZ1	1.84	0.42
24:ND:185:TYR:HB3	24:ND:408:TYR:HE2	1.85	0.42
24:NH:64:ARG:HE	24:NH:129:CYS:HB3	1.84	0.42
25:OE:219:THR:HA	24:OF:326:LYS:HE2	2.01	0.42
24:OF:423:GLU:O	24:OF:427:ALA:N	2.43	0.42
25:OG:215:LEU:HB3	25:OG:217:LEU:HD23	2.01	0.42
25:OI:207:LEU:HD11	25:OI:229:ILE:HD11	2.01	0.42
25:OK:68:LEU:HD12	25:OK:97:ALA:HB2	2.01	0.42
25:OQ:207:LEU:HB3	25:OQ:225:LEU:HD22	2.01	0.42
25:PC:5:VAL:HB	25:PC:133:PHE:HD1	1.84	0.42
24:PL:88:HIS:CD2	24:QL:283:HIS:HB2	2.54	0.42
25:PO:232:VAL:O	25:PO:236:ILE:N	2.52	0.42
24:PP:387:ILE:HG13	24:PP:390:ARG:NH2	2.33	0.42
25:PQ:101:TRP:CE2	25:PQ:187:LEU:HB3	2.54	0.42
25:QG:236:ILE:HD12	25:QG:368:ILE:HD11	2.00	0.42
25:QI:379:LYS:O	25:QI:383:GLU:N	2.49	0.42
24:QL:395:PHE:HE2	24:QL:422:ARG:HB2	1.84	0.42
25:QM:385:PHE:CE2	25:QM:412:GLU:HB3	2.54	0.42
24:RF:35:GLN:NE2	24:RF:36:MET:O	2.53	0.42
25:RM:104:GLY:O	25:RM:147:MET:HB3	2.18	0.42
25:RO:102:ALA:HA	25:RO:105:HIS:HB3	2.02	0.42
25:RO:216:LYS:HB2	25:RO:275:SER:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:RP:71:GLU:HG3	24:RP:73:THR:HG22	2.01	0.42
24:RP:423:GLU:HA	24:RP:426:ALA:HB3	2.02	0.42
24:SF:88:HIS:HB3	24:SF:91:GLN:HE21	1.84	0.42
24:SF:154:LEU:HD21	24:SF:198:THR:HG23	2.01	0.42
25:SM:11:GLN:NE2	24:SN:249:ASN:OD1	2.53	0.42
32:T0:537:ASN:OD1	32:T0:538:LYS:N	2.47	0.42
32:T2:500:ASP:OD1	32:T2:501:ASP:N	2.50	0.42
24:TD:137:VAL:HG21	24:TD:154:LEU:HD21	2.01	0.42
25:TG:51:PHE:HB3	25:TG:59:TYR:HB3	2.01	0.42
24:TL:167:LEU:HD13	24:TL:200:VAL:HB	2.01	0.42
25:TO:260:PHE:HB2	25:TO:263:LEU:HD13	2.01	0.42
24:TP:217:LEU:HD12	24:TP:367:ASP:HB3	2.02	0.42
33:U0:134:TYR:HD2	33:U0:135:ARG:HH11	1.67	0.42
25:UC:219:THR:HA	24:UD:326:LYS:HZ1	1.83	0.42
25:UE:49:VAL:HG11	25:UE:241:ARG:HG2	2.01	0.42
25:UE:397:TRP:CD1	24:UF:257:THR:HA	2.54	0.42
24:UH:76:ASP:OD2	25:UI:46:ARG:NH2	2.52	0.42
24:UJ:109:THR:HG22	24:UJ:110:ILE:HG23	2.00	0.42
24:UL:88:HIS:HA	24:UL:89:PRO:HD3	1.93	0.42
25:UM:33:THR:O	25:UM:58:ARG:NH1	2.51	0.42
25:UM:296:ALA:HB1	25:UM:305:PRO:HD2	2.01	0.42
25:UO:319:GLY:N	25:UO:354:CYS:O	2.41	0.42
25:VC:292:GLN:HG2	25:VC:298:ASN:ND2	2.34	0.42
24:VD:193:SER:O	24:VD:197:HIS:ND1	2.45	0.42
25:VG:385:PHE:HE2	25:VG:412:GLU:HB2	1.84	0.42
25:VM:182:PRO:HD3	24:VN:349:THR:HG21	2.01	0.42
25:VO:198:GLU:HB3	25:VO:258:ILE:HD11	2.01	0.42
25:WG:294:TRP:CG	25:WG:333:VAL:HG21	2.54	0.42
25:WI:19:LYS:HD2	25:WI:22:GLU:HG3	2.01	0.42
25:WI:210:ILE:O	25:WI:214:THR:OG1	2.26	0.42
24:WJ:402:ARG:NH2	24:WJ:415:GLU:OE2	2.40	0.42
25:WK:21:TRP:CH2	25:WK:50:TYR:HB3	2.54	0.42
25:WM:8:GLN:HE22	25:WM:63:ALA:HB1	1.84	0.42
39:X1:504:LEU:O	39:X1:507:THR:OG1	2.38	0.42
39:X3:80:LEU:HB3	39:X3:100:ASN:HD21	1.84	0.42
39:X3:397:LEU:HG	39:X3:524:ILE:HG12	2.01	0.42
25:XA:341:PHE:HB3	25:XA:348:ASN:ND2	2.34	0.42
25:XA:391:ARG:O	24:XB:262:TYR:OH	2.35	0.42
25:XE:86:ARG:NH1	25:XE:89:ASN:OD1	2.52	0.42
24:XH:141:VAL:O	24:XH:147:SER:OG	2.36	0.42
25:XI:87:PRO:HD3	24:YJ:283:HIS:ND1	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:XJ:363:VAL:HG13	24:XJ:366:GLY:HA3	1.99	0.42
24:XL:270:SER:H	24:XL:301:MET:HE1	1.85	0.42
25:XM:139:LEU:HG	25:XM:168:SER:HB2	2.02	0.42
40:Y1:207:MET:SD	40:Y1:207:MET:N	2.82	0.42
40:Y6:448:ASN:O	40:Y6:452:ASN:N	2.45	0.42
24:YD:160:ASP:OD1	24:YD:161:TYR:N	2.53	0.42
25:YE:170:VAL:HG22	25:YE:203:ASP:HB3	2.01	0.42
25:YE:385:PHE:HZ	25:YE:408:PHE:HB3	1.84	0.42
24:YL:99:ALA:HA	24:YL:110:ILE:HD11	2.02	0.42
25:YM:60:VAL:HG21	25:YM:86:ARG:HG3	2.01	0.42
25:YM:391:ARG:NH1	24:YN:439:SER:OG	2.52	0.42
25:YO:95:THR:OG1	25:YO:96:GLY:N	2.52	0.42
24:YP:5:ILE:HD13	24:YP:125:LEU:HB3	2.01	0.42
41:Z1:79:PHE:HE1	41:Z1:95:VAL:HG12	1.84	0.42
41:Z2:268:ARG:HD2	41:Z2:290:LEU:HD12	2.01	0.42
41:Z3:94:GLN:HG3	41:Z3:106:VAL:HB	2.00	0.42
25:ZG:67:ASP:OD1	25:ZG:68:LEU:N	2.46	0.42
25:ZI:144:GLY:N	46:ZI:501:GDP:O2B	2.45	0.42
24:ZJ:6:SER:HA	24:ZJ:136:LEU:HB2	2.01	0.42
24:ZL:105:ARG:HG3	24:ZL:411:GLU:HG2	2.01	0.42
2:1A:1352:HIS:HB2	2:1A:1418:LEU:HD21	2.02	0.42
2:1B:2471:LYS:HD2	2:1B:2474:GLN:NE2	2.35	0.42
2:1B:2496:ARG:HA	2:1B:2499:LEU:HD12	2.00	0.42
2:1D:2100:ARG:HD2	2:1D:2101:GLY:N	2.33	0.42
6:2I:244:SER:HA	6:2I:274:TRP:HA	2.01	0.42
15:9A:937:GLY:H	15:9A:957:PRO:HA	1.84	0.42
15:9D:766:HIS:O	15:9D:770:ILE:N	2.48	0.42
17:B1:470:VAL:O	17:B1:473:MET:HB3	2.20	0.42
18:C0:1479:ARG:HD3	18:C0:1482:GLU:OE2	2.18	0.42
18:C1:713:VAL:O	18:C1:717:MET:HG2	2.19	0.42
18:C1:1268:ARG:HH12	18:C1:1484:VAL:HG22	1.85	0.42
18:C1:1630:VAL:HG11	18:C1:1777:ALA:HB3	2.02	0.42
18:C2:477:VAL:O	18:C2:481:GLU:HG2	2.19	0.42
18:C2:633:ALA:HA	18:C2:636:GLN:HG3	2.02	0.42
18:C2:1214:LYS:HA	18:C2:1217:LEU:HB2	2.01	0.42
18:C3:427:ARG:O	18:C3:430:GLU:HG3	2.20	0.42
18:C3:1922:ASP:HB3	18:C3:1925:VAL:HB	2.00	0.42
19:D2:397:LYS:O	19:D2:401:ARG:HG2	2.19	0.42
21:F0:192:ALA:HA	21:F0:221:GLY:HA3	2.02	0.42
21:F1:22:LYS:HG2	21:F1:23:TYR:CE1	2.55	0.42
21:F3:102:PHE:CE1	21:F3:163:GLU:HA	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:G0:86:PRO:HA	19:G0:89:VAL:HG22	2.01	0.42
19:G3:7:LEU:O	19:G3:11:GLU:HB2	2.18	0.42
19:H1:69:ALA:O	19:H1:113:HIS:NE2	2.49	0.42
19:H1:324:SER:HB3	19:H1:327:LEU:HG	2.01	0.42
19:H1:361:GLY:HA3	19:H1:400:CYS:HB3	2.00	0.42
19:H6:235:GLN:HG3	19:H6:238:LYS:HD2	2.02	0.42
19:H6:398:THR:O	19:H6:401:ARG:NH1	2.53	0.42
19:H7:162:GLN:HA	19:H7:165:ASP:HB2	2.00	0.42
19:I0:406:SER:O	19:I0:421:VAL:N	2.51	0.42
19:J3:227:ARG:HG2	19:J3:267:VAL:HG12	2.01	0.42
19:K0:180:GLU:HB3	19:K0:183:LEU:HB3	2.02	0.42
19:K0:217:LEU:HD23	19:K0:225:LEU:HD21	2.01	0.42
19:K0:348:PRO:HG2	19:K0:352:LEU:HD13	2.02	0.42
19:L0:34:ILE:HG23	19:L0:68:LEU:HD13	2.00	0.42
19:L3:435:GLU:OE2	19:L3:446:ALA:HB3	2.20	0.42
22:M1:54:GLU:OE1	22:M1:55:LEU:N	2.53	0.42
25:NE:201:VAL:HG21	25:NE:374:ILE:HD11	2.01	0.42
25:NE:416:ASN:HA	25:NE:419:VAL:HG22	2.01	0.42
24:NL:130:THR:OG1	24:NL:131:GLY:N	2.51	0.42
25:NO:22:GLU:HG3	25:NO:81:TYR:HD1	1.84	0.42
26:O0:667:PRO:O	25:SM:425:TYR:OH	2.24	0.42
26:O0:1148:PHE:HA	26:O0:1369:CYS:HA	2.01	0.42
26:O2:109:LEU:HD13	26:O2:210:MET:HB3	2.01	0.42
24:OD:305:CYS:HB3	24:OD:387:ILE:HD11	2.02	0.42
25:OE:54:ALA:HA	25:PE:283:ALA:HB2	2.02	0.42
25:OE:204:ASN:ND2	46:OE:501:GDP:HN22	2.18	0.42
24:OF:310:GLY:HA3	24:OF:383:ALA:HB2	2.01	0.42
25:OI:162:ARG:HA	25:OI:162:ARG:HD3	1.85	0.42
24:OP:167:LEU:HD21	24:OP:252:ILE:HG23	2.01	0.42
24:OP:206:ASN:OD1	44:OP:501:GTP:N2	2.47	0.42
25:PC:203:ASP:OD1	25:PC:203:ASP:N	2.51	0.42
25:PC:294:TRP:CD1	25:PC:333:VAL:HG21	2.55	0.42
24:PD:201:ALA:O	24:PD:268:MET:N	2.49	0.42
25:PI:319:GLY:HA2	25:PI:357:PRO:HD3	2.01	0.42
24:PJ:94:SER:OG	24:PJ:95:GLY:N	2.52	0.42
25:PK:294:TRP:CE2	25:PK:333:VAL:HG11	2.54	0.42
24:PL:177:VAL:HG11	25:PM:327:ASP:HB3	2.02	0.42
25:PM:63:ALA:O	25:PM:89:ASN:ND2	2.51	0.42
24:PN:215:ARG:HH22	24:PN:300:SER:HA	1.84	0.42
25:PO:249:ASP:OD1	25:PO:252:LYS:N	2.48	0.42
24:PP:317:LEU:HB3	24:PP:319:TYR:HE1	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:PQ:298:ASN:C	25:PQ:298:ASN:HD22	2.19	0.42
25:PQ:336:LYS:HA	25:PQ:336:LYS:HD3	1.80	0.42
28:Q0:2367:LEU:HD21	28:Q0:2460:MET:HB2	2.01	0.42
25:QG:232:VAL:O	25:QG:236:ILE:HG12	2.20	0.42
25:QI:220:PRO:O	24:QJ:326:LYS:NZ	2.52	0.42
25:QK:54:ALA:HA	25:RK:283:ALA:HB2	2.01	0.42
24:QL:9:ILE:HG22	24:QL:146:GLY:HA2	2.00	0.42
24:QN:72:PRO:HA	24:QN:75:VAL:HG12	2.00	0.42
25:QO:101:TRP:O	25:QO:105:HIS:N	2.48	0.42
25:QO:213:ARG:HD2	25:QO:297:LYS:HD3	2.01	0.42
25:QO:235:GLY:HA2	25:QO:318:ARG:NH2	2.34	0.42
24:QP:168:GLY:O	24:QP:202:VAL:N	2.50	0.42
24:QP:326:LYS:O	24:QP:330:ALA:N	2.39	0.42
29:R0:49:VAL:HG11	29:R0:94:ARG:HB3	2.02	0.42
24:RF:217:LEU:HG	24:RF:275:ILE:HG22	2.00	0.42
25:RK:302:ALA:HB3	25:RK:377:MET:HE2	2.02	0.42
25:RM:328:GLU:O	25:RM:332:ASN:N	2.52	0.42
25:SC:292:GLN:HG2	25:SC:298:ASN:ND2	2.35	0.42
25:SC:294:TRP:CD1	25:SC:333:VAL:HG21	2.55	0.42
24:SH:187:SER:O	24:SH:191:THR:OG1	2.29	0.42
24:SJ:123:ARG:HA	24:SJ:123:ARG:HD2	1.80	0.42
24:SN:143:GLY:O	24:SN:147:SER:N	2.52	0.42
24:SN:211:ASP:OD1	24:SN:214:ARG:NH2	2.52	0.42
32:T3:345:GLU:HA	32:T3:364:ARG:HA	2.01	0.42
25:TC:311:LEU:H	25:TC:371:SER:HA	1.85	0.42
24:TF:180:ALA:HB3	24:TF:183:GLU:HG3	2.01	0.42
25:TI:141:GLY:O	25:TI:184:ASN:ND2	2.52	0.42
25:TI:207:LEU:HB3	25:TI:225:LEU:HD22	2.01	0.42
25:TK:47:ILE:HG22	25:TK:51:PHE:HB2	2.00	0.42
24:TN:237:SER:HA	24:TN:320:ARG:HD2	2.00	0.42
25:TO:267:MET:HE3	25:TO:373:ALA:HB3	2.01	0.42
24:UF:194:LEU:O	24:UF:198:THR:OG1	2.33	0.42
25:UG:150:LEU:O	25:UG:153:SER:OG	2.28	0.42
24:UH:133:GLN:O	24:UH:165:SER:OG	2.37	0.42
24:UN:30:ILE:HD13	24:UN:36:MET:HG2	2.01	0.42
24:UN:221:ARG:NH1	36:W3:40:UNK:O	2.53	0.42
25:UO:183:TYR:HB3	25:UO:398:TYR:HE2	1.85	0.42
25:UO:260:PHE:HB2	25:UO:263:LEU:HD13	2.00	0.42
24:VD:292:THR:OG1	24:VD:319:TYR:OH	2.31	0.42
24:VH:72:PRO:HA	24:VH:75:VAL:HG12	2.01	0.42
24:VH:240:ALA:HB2	24:VH:243:ARG:HH21	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:VI:6:HIS:HA	25:VI:134:GLN:O	2.20	0.42
25:VO:271:THR:HG21	25:VO:365:ALA:HB3	2.01	0.42
39:X0:419:ARG:HH22	39:X0:486:ARG:HH12	1.67	0.42
39:X3:817:GLU:H	40:Y6:25:LYS:NZ	2.18	0.42
25:XI:334:GLN:HE21	25:XI:349:VAL:HG23	1.85	0.42
40:Y0:50:VAL:HG22	40:Y0:68:VAL:HG22	2.01	0.42
40:Y0:145:LYS:HD3	40:Y0:153:ILE:HD12	2.01	0.42
40:Y0:320:MET:HA	40:Y0:323:LEU:HB3	2.01	0.42
40:Y3:200:HIS:ND1	40:Y3:208:GLN:OE1	2.45	0.42
40:Y4:76:ARG:HH12	40:Y5:456:ARG:CZ	2.32	0.42
40:Y5:249:VAL:HB	40:Y5:253:GLY:HA2	2.02	0.42
40:Y7:222:GLU:OE2	40:Y7:225:ARG:NH1	2.52	0.42
24:YD:240:ALA:HA	24:YD:243:ARG:HG3	2.01	0.42
25:YE:334:GLN:NE2	25:YE:348:ASN:OD1	2.53	0.42
24:YH:117:LEU:HG	24:YH:121:ARG:HH12	1.84	0.42
25:YK:195:ASN:OD1	25:YK:196:ALA:N	2.52	0.42
25:YO:101:TRP:O	25:YO:105:HIS:HB2	2.19	0.42
41:Z3:436:THR:HG23	41:Z3:475:ARG:HA	2.00	0.42
24:ZD:265:ILE:HG12	24:ZD:432:PHE:HE1	1.84	0.42
25:ZE:7:ILE:HB	25:ZE:135:VAL:HG12	2.00	0.42
25:ZI:172:SER:OG	25:ZI:205:GLU:OE2	2.35	0.42
25:ZI:294:TRP:CD2	25:ZI:333:VAL:HG21	2.55	0.42
25:ZO:150:LEU:HD11	25:ZO:154:LYS:HE2	2.01	0.42
24:ZP:254:GLU:O	24:ZP:258:ASN:HB2	2.19	0.42
24:ZP:276:ILE:HD12	24:ZP:281:ALA:HA	2.01	0.42
2:1B:2147:SER:HB2	18:C1:1233:ARG:HH21	1.84	0.42
4:2B:535:GLY:HA3	4:2B:821:ALA:HA	2.01	0.42
6:2H:135:ALA:HA	6:2H:156:LEU:H	1.84	0.42
10:4B:31:ILE:O	10:4B:67:ILE:N	2.49	0.42
14:8B:116:VAL:HG11	24:VL:357:TYR:HB3	2.02	0.42
17:B0:635:ARG:HH22	33:U1:194:ARG:HA	1.85	0.42
17:B1:447:GLU:OE1	17:B1:450:ARG:NH2	2.45	0.42
18:C0:1515:ASP:OD1	18:C0:1517:ARG:NH1	2.52	0.42
18:C0:1897:THR:N	18:C0:1900:GLN:HE21	2.17	0.42
18:C1:1032:ARG:HH21	18:C1:1077:GLY:HA3	1.84	0.42
18:C2:709:LEU:HD23	18:C2:712:LEU:HD21	2.01	0.42
18:C3:226:ASP:HB3	24:VF:402:ARG:HH12	1.84	0.42
18:C4:9:LEU:HD21	18:C4:94:LEU:HD12	2.01	0.42
18:C4:275:ASP:HA	18:C4:278:GLU:HG2	2.01	0.42
19:D4:178:GLU:OE2	21:F3:146:ASN:ND2	2.53	0.42
19:D4:260:LEU:HD23	19:D4:301:TYR:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:E3:369:LYS:HD2	25:UO:128:ASP:HA	2.02	0.42
21:F1:192:ALA:HA	21:F1:221:GLY:HA3	2.01	0.42
21:F2:472:VAL:HA	21:F2:560:GLN:O	2.19	0.42
21:F3:93:GLU:OE1	21:F3:184:PRO:HB2	2.20	0.42
19:G1:142:LYS:HB3	19:G1:183:LEU:HD21	2.01	0.42
19:G1:156:ASN:OD1	19:G1:157:ALA:N	2.50	0.42
19:G4:227:ARG:HE	19:G4:266:PHE:HB2	1.85	0.42
19:G4:235:GLN:HA	19:G4:238:LYS:NZ	2.35	0.42
19:H3:34:ILE:HD12	19:H3:68:LEU:HD23	2.02	0.42
19:I1:240:SER:HB2	19:I1:243:LEU:HG	2.02	0.42
19:I1:270:HIS:O	19:I1:273:THR:OG1	2.34	0.42
19:K3:79:VAL:HG13	19:K3:84:ILE:HB	2.00	0.42
19:L1:269:LYS:O	19:L1:273:THR:HG23	2.19	0.42
19:L3:305:SER:O	19:L3:310:ARG:NH2	2.52	0.42
22:M0:804:ARG:HG2	28:Q0:655:PHE:CD2	2.54	0.42
24:ND:236:SER:OG	24:ND:243:ARG:NH2	2.49	0.42
25:NI:232:VAL:O	25:NI:236:ILE:HG12	2.20	0.42
24:NJ:67:PHE:HB2	24:NJ:92:LEU:HD23	2.01	0.42
24:NJ:73:THR:HA	25:NK:46:ARG:HH12	1.84	0.42
25:NO:27:GLU:OE1	25:NO:241:ARG:NH1	2.46	0.42
25:OC:222:PHE:HD1	25:OC:225:LEU:HD12	1.85	0.42
24:OD:174:SER:HB3	24:OD:177:VAL:O	2.20	0.42
24:OH:149:LEU:HD12	24:OH:149:LEU:HA	1.85	0.42
25:OK:67:ASP:OD1	25:OK:69:GLU:N	2.48	0.42
24:PD:130:THR:OG1	24:PD:131:GLY:N	2.51	0.42
24:PD:202:VAL:HA	24:PD:268:MET:HB2	2.02	0.42
25:PG:320:ARG:NE	25:PG:355:ASP:OD1	2.52	0.42
24:PH:274:PRO:HD3	24:PH:291:ILE:HG23	2.01	0.42
25:PI:105:HIS:ND1	25:PI:105:HIS:O	2.51	0.42
25:PI:397:TRP:HE1	24:PJ:260:VAL:HG23	1.83	0.42
24:PJ:180:ALA:HB3	24:PJ:183:GLU:HG3	2.02	0.42
24:PL:132:LEU:HB3	24:PL:164:LYS:HZ3	1.84	0.42
24:PN:201:ALA:H	24:PN:266:HIS:HD1	1.67	0.42
28:Q0:2580:THR:HA	28:Q0:2583:ALA:HB3	2.02	0.42
28:Q1:1078:LEU:HD23	28:Q1:1078:LEU:HA	1.85	0.42
28:Q1:2092:HIS:HA	28:Q1:2558:PRO:HD2	2.02	0.42
24:QH:259:LEU:HB3	24:QH:268:MET:SD	2.59	0.42
25:QI:198:GLU:HB2	25:QI:266:PHE:HE2	1.84	0.42
25:QI:287:PRO:HG3	25:QI:325:GLU:OE2	2.19	0.42
25:QI:420:SER:O	25:QI:424:GLN:N	2.52	0.42
24:QL:268:MET:SD	24:QL:380:ASN:ND2	2.89	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:QM:173:PRO:HB3	25:QM:380:ARG:NE	2.34	0.42
25:QM:189:VAL:O	25:QM:193:VAL:HG13	2.20	0.42
25:QM:314:SER:HA	25:QM:350:LYS:O	2.20	0.42
25:QO:114:ASP:OD1	25:QO:115:SER:N	2.52	0.42
24:QP:9:ILE:HG13	24:QP:68:LEU:HD21	2.01	0.42
24:QP:154:LEU:HD23	24:QP:157:LEU:HD11	2.01	0.42
24:QP:414:GLU:HG3	24:QP:416:GLY:H	1.83	0.42
29:R0:255:VAL:HA	29:R0:258:LEU:HG	2.01	0.42
25:RC:3:GLU:N	25:RC:3:GLU:OE2	2.52	0.42
25:RE:52:ASN:ND2	25:RE:123:GLU:OE2	2.53	0.42
25:RK:100:ASN:HB2	25:RK:103:LYS:HB3	2.02	0.42
25:RK:128:ASP:OD1	25:RK:128:ASP:N	2.46	0.42
25:RM:175:VAL:HG11	24:RN:329:ASN:HB3	2.01	0.42
24:RN:195:LEU:HD11	24:RN:428:LEU:HD13	2.00	0.42
25:RO:7:ILE:O	25:RO:135:VAL:HA	2.20	0.42
30:S0:13:LYS:HG2	25:YO:360:GLY:HA3	2.01	0.42
25:SE:192:LEU:HD22	25:SE:196:ALA:HB2	1.99	0.42
24:SH:195:LEU:HD23	24:SH:264:ARG:HH11	1.84	0.42
25:SK:397:TRP:CZ2	24:SL:256:GLN:HB3	2.54	0.42
24:SL:223:THR:HG23	24:SL:225:THR:H	1.84	0.42
24:SN:8:HIS:HD2	24:SN:138:PHE:HB2	1.85	0.42
25:SO:296:ALA:HA	25:SO:299:MET:HG2	2.02	0.42
32:T2:556:TYR:OH	25:YC:399:THR:HG21	2.18	0.42
24:TF:66:ILE:HD12	24:TF:68:LEU:HD22	2.02	0.42
24:TF:100:ALA:HA	25:TG:252:LYS:HZ2	1.84	0.42
24:TH:217:LEU:HD12	24:TH:367:ASP:HB3	2.00	0.42
25:TI:211:CYS:HA	25:TI:215:LEU:HB2	2.01	0.42
25:TI:379:LYS:HA	25:TI:379:LYS:HD3	1.82	0.42
25:TK:203:ASP:HB2	25:TK:205:GLU:OE2	2.19	0.42
24:UL:96:LYS:HD2	25:UM:129:CYS:HB2	2.01	0.42
25:UM:358:PRO:HG2	25:UM:361:LEU:HB2	2.01	0.42
24:UN:30:ILE:HG13	24:UN:53:PHE:CE2	2.54	0.42
25:UO:404:ASP:N	25:UO:404:ASP:OD2	2.52	0.42
25:VE:156:ARG:HH21	25:VE:164:MET:HG2	1.85	0.42
24:VF:169:PHE:HZ	24:VF:238:LEU:HD22	1.85	0.42
25:VG:20:PHE:HA	25:VG:230:SER:HB2	2.00	0.42
24:VH:167:LEU:HG	24:VH:252:ILE:HD11	2.01	0.42
25:VK:45:GLU:OE2	25:VK:46:ARG:NH2	2.49	0.42
25:VM:20:PHE:HA	25:VM:230:SER:HB2	2.02	0.42
25:VO:285:THR:HB	25:VO:287:PRO:HD2	2.02	0.42
24:VP:27:GLU:HB3	24:VP:361:THR:HG21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:WB:253:THR:HG23	24:WB:256:GLN:HE21	1.85	0.42
24:WH:132:LEU:HD22	24:WH:164:LYS:HD2	2.01	0.42
24:WH:226:ASN:ND2	24:WH:367:ASP:OD2	2.45	0.42
24:WN:39:ASP:OD1	24:WN:39:ASP:N	2.48	0.42
24:WN:137:VAL:HG13	24:WN:168:GLY:HA2	2.01	0.42
25:WO:323:THR:HG22	25:WO:353:VAL:HG21	2.01	0.42
24:XB:180:ALA:HA	25:XC:350:LYS:HD3	2.01	0.42
25:XE:67:ASP:OD1	25:XE:67:ASP:N	2.53	0.42
25:XO:7:ILE:HB	25:XO:135:VAL:HG12	2.00	0.42
40:Y0:186:ILE:HD12	40:Y0:466:VAL:HG13	2.01	0.42
40:Y3:344:ASP:OD1	40:Y3:344:ASP:N	2.52	0.42
40:Y5:6:TYR:HA	40:Y5:9:LYS:HE3	2.00	0.42
40:Y6:208:GLN:OE1	40:Y6:209:GLU:HG3	2.19	0.42
40:Y7:55:ILE:HG12	40:Y7:65:GLU:HB2	2.02	0.42
24:YD:402:ARG:HA	24:YD:402:ARG:HD3	1.86	0.42
25:YG:207:LEU:HB3	25:YG:225:LEU:HD22	2.02	0.42
25:YM:406:MET:SD	25:YM:410:GLU:HB2	2.59	0.42
24:YP:363:VAL:HG23	24:YP:366:GLY:HA3	2.01	0.42
41:Z3:213:VAL:HG11	41:Z3:323:VAL:HA	2.01	0.42
25:ZC:3:GLU:HA	25:ZC:49:VAL:HA	2.01	0.42
24:ZF:237:SER:HA	24:ZF:320:ARG:HD2	2.00	0.42
24:ZF:403:ALA:HB2	25:ZG:344:TRP:HZ3	1.83	0.42
24:ZH:204:LEU:HD23	24:ZH:204:LEU:HA	1.86	0.42
24:ZJ:223:THR:OG1	24:ZJ:224:TYR:N	2.52	0.42
24:ZL:313:MET:HG3	24:ZL:346:TRP:HH2	1.84	0.42
2:1B:1586:GLY:HA2	2:1B:1812:LEU:HB3	2.02	0.42
4:2A:297:GLU:HG2	4:2A:385:PRO:HB2	2.01	0.42
15:9A:932:LEU:HA	15:9A:961:GLY:HA2	2.00	0.42
18:C1:1289:VAL:HG23	18:C1:1374:LEU:HD23	2.01	0.42
18:C2:95:TYR:CZ	21:F1:178:ARG:HG3	2.54	0.42
18:C3:593:PRO:HD2	18:C3:763:ARG:HA	2.02	0.42
18:C4:69:ASN:O	18:C4:136:LYS:NZ	2.41	0.42
19:D1:111:ALA:HB2	19:D1:121:VAL:HG21	2.02	0.42
19:D2:92:LEU:HD11	19:D2:107:LEU:HD12	2.02	0.42
19:D2:226:LYS:HE3	19:D2:226:LYS:HB3	1.81	0.42
19:D2:340:LEU:HB3	19:D2:360:LEU:HD21	2.01	0.42
19:D7:138:ASP:O	19:D7:142:LYS:HG2	2.19	0.42
20:E0:96:SER:OG	20:E0:97:LEU:N	2.52	0.42
20:E2:382:LEU:HD23	24:VB:207:GLU:HB2	2.00	0.42
21:F2:74:HIS:ND1	25:VI:410:GLU:OE2	2.41	0.42
19:G2:121:VAL:O	19:G2:124:SER:OG	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:G5:275:VAL:HG11	19:G5:298:LEU:HD11	2.01	0.42
19:H1:49:LEU:HA	19:H1:52:ASP:OD2	2.19	0.42
19:H2:114:SER:HA	19:H2:115:PRO:HD3	1.94	0.42
19:H3:401:ARG:HG3	19:H3:405:LYS:NZ	2.34	0.42
19:I0:140:GLY:O	19:I0:143:GLU:HG3	2.20	0.42
19:J1:273:THR:HA	19:J1:276:ARG:HH11	1.85	0.42
19:J2:47:ARG:HH21	19:J3:51:LEU:HD23	1.85	0.42
19:K0:254:PRO:HA	19:K0:257:LEU:HD13	2.01	0.42
19:L0:173:VAL:HG21	19:L0:210:ALA:HA	2.02	0.42
19:L1:472:LYS:H	19:L1:472:LYS:HZ3	1.67	0.42
19:L2:140:GLY:O	19:L2:143:GLU:HB2	2.20	0.42
19:L3:178:GLU:HB3	19:L3:183:LEU:HD23	2.00	0.42
19:L3:210:ALA:O	19:L3:214:LEU:HB2	2.19	0.42
19:L3:355:ALA:O	19:L3:359:THR:HG23	2.19	0.42
22:M1:115:TYR:HE2	22:M1:117:TYR:HB2	1.84	0.42
22:M1:876:ARG:HH22	28:Q1:189:PHE:HA	1.84	0.42
23:N3:99:VAL:HG13	23:N3:104:VAL:HB	2.01	0.42
24:NF:16:VAL:O	24:NF:20:CYS:N	2.51	0.42
24:NF:172:TYR:HA	24:NF:173:PRO:HD3	1.92	0.42
25:NM:256:ASN:O	25:NM:312:THR:HG21	2.18	0.42
25:NO:183:TYR:HB3	25:NO:398:TYR:HE2	1.84	0.42
25:OC:28:HIS:HE2	25:OC:241:ARG:HE	1.68	0.42
24:OF:273:ALA:HB3	24:OF:375:VAL:H	1.85	0.42
25:OG:171:PRO:HB3	25:OG:181:GLU:HG3	2.01	0.42
25:OG:220:PRO:HD2	24:OH:326:LYS:HE3	2.01	0.42
25:OI:284:LEU:HG	25:OI:362:LYS:HE3	2.01	0.42
25:OK:292:GLN:O	25:OK:298:ASN:ND2	2.44	0.42
24:OL:2:ARG:HB2	24:OL:242:LEU:HD22	2.00	0.42
25:OM:219:THR:HA	24:ON:326:LYS:HZ1	1.83	0.42
24:ON:180:ALA:HB3	24:ON:183:GLU:HG3	2.01	0.42
25:OO:5:VAL:HB	25:OO:133:PHE:HD1	1.84	0.42
25:OO:311:LEU:HD12	25:OO:342:VAL:HG11	2.01	0.42
24:OP:67:PHE:HB2	24:OP:92:LEU:HD22	2.01	0.42
25:PI:253:LEU:HD21	25:PI:316:LEU:HD21	2.01	0.42
25:PK:67:ASP:OD2	25:PK:68:LEU:N	2.52	0.42
25:PK:68:LEU:HB2	25:PK:143:THR:HG23	2.00	0.42
25:PK:179:VAL:HG12	24:PL:258:ASN:OD1	2.20	0.42
24:PL:345:ASP:OD1	24:PL:345:ASP:N	2.52	0.42
24:PP:225:THR:HG22	24:PP:229:ARG:HE	1.85	0.42
28:Q0:2166:LEU:HD13	28:Q0:2166:LEU:HA	1.81	0.42
28:Q1:2968:LEU:HD23	28:Q1:2968:LEU:HA	1.91	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:QF:133:GLN:HG3	24:QF:252:ILE:HG22	2.02	0.42
25:QI:101:TRP:CD1	25:QI:105:HIS:HB2	2.55	0.42
24:QJ:222:PRO:HD2	25:QK:324:LYS:HZ1	1.84	0.42
25:QK:240:LEU:HD21	25:QK:249:ASP:HA	2.00	0.42
29:R1:175:VAL:HG21	29:R1:195:LEU:HD22	2.02	0.42
24:RD:63:PRO:HG2	24:RD:87:PHE:HE1	1.84	0.42
25:RG:62:ARG:NH1	25:RG:127:CYS:HB3	2.34	0.42
24:RH:317:LEU:N	24:RH:352:LYS:O	2.47	0.42
24:SB:406:HIS:HA	24:SB:409:VAL:HG22	2.01	0.42
24:SD:417:GLU:HA	24:SD:420:GLU:HG3	2.02	0.42
25:SE:290:THR:HG21	25:SE:329:GLN:HB3	2.01	0.42
24:SF:204:LEU:HD12	24:SF:209:ILE:HD11	2.01	0.42
25:SK:101:TRP:CE3	25:SK:187:LEU:HD13	2.55	0.42
25:SK:210:ILE:HD13	25:SK:298:ASN:HA	2.02	0.42
24:SN:318:MET:HB2	24:SN:376:CYS:HB3	2.00	0.42
32:T0:473:LEU:HD22	24:YL:402:ARG:HE	1.85	0.42
25:TC:212:PHE:CZ	24:TD:326:LYS:HD2	2.55	0.42
24:TF:167:LEU:HG	24:TF:169:PHE:HE2	1.85	0.42
24:TH:296:PHE:CE2	24:TH:335:ILE:HD13	2.55	0.42
25:TK:156:ARG:NH1	25:TK:160:PRO:O	2.53	0.42
24:TL:416:GLY:O	24:TL:419:SER:OG	2.30	0.42
24:TL:417:GLU:OE2	24:TL:417:GLU:N	2.50	0.42
24:TL:425:LEU:HD23	24:TL:425:LEU:HA	1.83	0.42
25:TO:152:ILE:HG23	25:TO:164:MET:HE2	2.00	0.42
24:TP:311:LYS:N	24:TP:382:THR:OG1	2.50	0.42
25:UC:117:LEU:HG	25:UC:154:LYS:HD2	2.01	0.42
25:UC:311:LEU:HG	25:UC:342:VAL:HG21	2.01	0.42
25:UI:170:VAL:HG22	25:UI:202:LEU:O	2.19	0.42
24:UL:109:THR:HG23	24:UL:110:ILE:HG12	2.01	0.42
24:UP:101:ASN:HA	24:UP:144:GLY:H	1.84	0.42
24:VB:202:VAL:HA	24:VB:268:MET:HB2	2.02	0.42
24:VF:171:VAL:HA	24:VF:204:LEU:HB2	2.01	0.42
25:VG:179:VAL:HG23	24:VH:350:GLY:HA2	2.02	0.42
25:VG:372:THR:OG1	25:VG:422:TYR:O	2.32	0.42
24:VH:65:CYS:O	24:VH:91:GLN:NE2	2.41	0.42
24:VH:72:PRO:HD2	25:VI:2:ARG:NH1	2.35	0.42
25:WA:91:VAL:HG11	25:WA:116:VAL:HG12	2.02	0.42
25:WA:272:PRO:HG3	25:WA:364:SER:HA	2.01	0.42
24:WB:152:LEU:HD12	24:WB:152:LEU:HA	1.92	0.42
25:WC:85:PHE:HB2	25:WC:90:PHE:HE1	1.84	0.42
24:WD:6:SER:O	24:WD:65:CYS:HA	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:WH:271:SER:HB2	24:WH:377:MET:HB3	2.01	0.42
25:WI:397:TRP:NE1	24:WJ:260:VAL:O	2.46	0.42
24:WL:246:GLY:HA3	24:WL:356:ASN:HA	2.01	0.42
24:WL:298:PRO:HB3	24:WL:307:PRO:HD2	2.00	0.42
24:XJ:219:ILE:HG22	24:XJ:222:PRO:HD3	2.02	0.42
25:XM:272:PRO:HG3	25:XM:364:SER:HA	2.00	0.42
24:XN:62:VAL:HG22	25:YO:281:TYR:HD1	1.83	0.42
25:XO:1:MET:H1	25:XO:46:ARG:HH11	1.67	0.42
25:XO:25:SER:HB2	25:XO:30:ILE:HB	2.01	0.42
40:Y1:155:ALA:HA	40:Y1:158:MET:HB2	2.01	0.42
40:Y1:222:GLU:OE2	40:Y1:225:ARG:NH1	2.52	0.42
40:Y1:285:GLY:O	40:Y1:286:MET:HE2	2.20	0.42
40:Y1:386:LEU:HD11	40:Y1:397:SER:HB3	2.01	0.42
40:Y2:208:GLN:HG3	40:Y2:209:GLU:HG3	2.02	0.42
40:Y7:427:ASP:HA	40:Y7:430:VAL:HG12	2.01	0.42
24:YH:242:LEU:HD11	24:YH:252:ILE:HG12	2.01	0.42
25:YI:377:MET:HG3	25:YI:380:ARG:NH2	2.35	0.42
24:YJ:33:ASP:OD2	24:YJ:34:GLY:N	2.52	0.42
24:YP:9:ILE:HG12	24:YP:68:LEU:HD11	2.00	0.42
24:YP:251:ASP:OD1	24:YP:252:ILE:N	2.51	0.42
24:YP:298:PRO:HA	24:YP:301:MET:HG2	2.02	0.42
41:Z0:44:ALA:HB2	41:Z0:67:THR:HG23	2.02	0.42
41:Z1:409:LEU:HD22	41:Z1:446:ILE:HG23	2.01	0.42
24:ZB:155:GLU:HG2	24:ZB:197:HIS:CE1	2.55	0.42
25:ZE:101:TRP:CD1	25:ZE:146:GLY:HA2	2.55	0.42
24:ZF:219:ILE:HG13	24:ZF:221:ARG:H	1.83	0.42
24:ZF:278:ALA:HA	24:ZF:369:ALA:HB2	2.02	0.42
25:ZG:64:ILE:HD12	25:ZG:119:VAL:HG12	2.00	0.42
24:ZH:178:SER:OG	24:ZH:180:ALA:O	2.33	0.42
24:ZJ:275:ILE:HG23	24:ZJ:368:LEU:HD21	2.02	0.42
25:ZK:324:LYS:O	25:ZK:328:GLU:N	2.39	0.42
24:ZL:181:VAL:HB	25:ZM:256:ASN:HD22	1.85	0.42
2:1A:1242:MET:HG3	2:1A:1322:LEU:HB3	2.02	0.42
2:1A:1522:ASP:OD1	2:1A:1523:PRO:HD3	2.20	0.42
2:1A:1800:TYR:HB3	2:1A:1901:VAL:HG22	2.02	0.42
2:1B:2135:ARG:HG3	2:1B:2291:PRO:HD2	2.02	0.42
2:1B:2181:GLN:NE2	2:1B:2188:GLU:OE2	2.53	0.42
2:1B:2182:GLU:HG2	2:1B:2252:TYR:CE2	2.54	0.42
2:1C:1335:LEU:HA	2:1C:1338:ARG:HG2	2.01	0.42
2:1C:2155:VAL:HG13	2:1C:2301:LEU:HB2	2.02	0.42
2:1D:1717:LEU:HA	2:1D:1720:VAL:HG12	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6B:253:GLU:O	12:6B:261:VAL:HA	2.19	0.42
14:8A:41:ARG:H	14:8A:41:ARG:HG2	1.71	0.42
14:8D:59:TRP:HH2	25:XC:217:LEU:HD21	1.84	0.42
18:C1:190:LEU:O	18:C1:194:ARG:HG2	2.20	0.42
18:C1:1343:PRO:HB2	18:C1:1346:LEU:HD23	2.01	0.42
18:C3:859:PRO:HA	18:C3:860:PRO:HD3	1.88	0.42
19:D1:401:ARG:NH1	19:D1:445:ALA:HB2	2.34	0.42
19:D6:13:TYR:HE2	19:D7:45:LEU:HD11	1.85	0.42
19:D7:401:ARG:HA	19:D7:404:LEU:HG	2.02	0.42
21:F1:145:ASP:OD1	21:F1:145:ASP:N	2.51	0.42
19:G0:170:PRO:HA	19:G0:173:VAL:HG22	2.02	0.42
19:G1:112:ARG:HH12	19:G1:113:HIS:CE1	2.38	0.42
19:G1:134:LEU:HD23	19:G1:134:LEU:HA	1.90	0.42
19:G3:356:THR:HA	19:G3:359:THR:HG22	2.02	0.42
19:H1:235:GLN:HA	19:H1:238:LYS:HD3	2.02	0.42
19:H2:398:THR:HA	19:H2:401:ARG:HG2	2.01	0.42
19:H3:253:PHE:HA	19:H3:256:ILE:HD12	2.02	0.42
19:H6:268:LYS:HD3	19:H6:268:LYS:HA	1.79	0.42
19:H7:262:PHE:O	19:H7:268:LYS:NZ	2.39	0.42
19:J0:161:GLN:HA	19:J0:164:VAL:HG22	2.01	0.42
19:J0:182:SER:HA	19:J0:185:ARG:HG2	2.01	0.42
19:L2:44:ALA:HA	19:L2:47:ARG:HG2	2.00	0.42
23:N0:300:LEU:O	23:N0:304:GLY:N	2.47	0.42
23:N3:58:LYS:HE2	23:N3:95:LEU:HD21	2.02	0.42
24:NB:273:ALA:HB3	24:NB:375:VAL:H	1.83	0.42
24:NB:280:LYS:HZ3	24:ZB:89:PRO:HD2	1.85	0.42
24:NB:285:GLN:HB2	24:ZB:56:THR:HG23	2.02	0.42
25:NG:238:CYS:SG	25:NG:239:CYS:N	2.93	0.42
25:NM:207:LEU:HB3	25:NM:225:LEU:HD22	2.00	0.42
25:NO:238:CYS:SG	25:NO:239:CYS:N	2.93	0.42
24:OF:175:PRO:HB3	24:OF:390:ARG:HD3	2.01	0.42
24:OJ:164:LYS:O	24:OJ:166:LYS:NZ	2.42	0.42
24:OL:9:ILE:HG13	24:OL:68:LEU:HD21	2.01	0.42
24:OL:168:GLY:N	24:OL:200:VAL:O	2.43	0.42
24:PD:238:LEU:HD13	24:PD:378:ILE:HD12	2.02	0.42
24:PD:345:ASP:OD1	24:PD:345:ASP:N	2.53	0.42
25:PE:22:GLU:HG2	25:PE:81:TYR:HD2	1.84	0.42
25:PE:286:VAL:HB	25:PE:325:GLU:HB3	2.02	0.42
24:PH:403:ALA:HB1	25:PI:259:PRO:HB3	2.01	0.42
25:PO:195:ASN:OD1	25:PO:196:ALA:N	2.52	0.42
25:PO:407:GLU:HA	25:PO:410:GLU:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Q0:620:ARG:HA	28:Q0:621:PRO:HD3	1.91	0.42
28:Q0:769:GLN:NE2	28:Q0:773:LEU:HD12	2.35	0.42
28:Q0:1492:ARG:O	28:Q0:1496:ILE:HG12	2.19	0.42
28:Q0:2639:CYS:HB2	28:Q0:2644:LEU:HD13	2.01	0.42
28:Q1:2137:THR:HA	28:Q1:2140:TRP:HB2	2.01	0.42
28:Q1:2702:LEU:HD22	28:Q1:2985:GLU:HG2	2.00	0.42
25:QC:183:TYR:CZ	25:QC:388:MET:HB3	2.55	0.42
25:QC:208:TYR:CE1	25:QC:225:LEU:HD11	2.55	0.42
25:QG:282:ARG:NH1	25:QG:292:GLN:OE1	2.49	0.42
25:QI:58:ARG:NH2	25:QI:84:ILE:HA	2.35	0.42
24:QJ:288:VAL:HG13	24:QJ:319:TYR:HE2	1.83	0.42
24:QL:25:CYS:O	24:QL:30:ILE:N	2.52	0.42
24:QL:210:TYR:CE1	24:QL:227:LEU:HD11	2.55	0.42
24:QN:20:CYS:SG	24:QN:21:TRP:N	2.93	0.42
25:QO:3:GLU:HA	25:QO:49:VAL:HG23	2.02	0.42
25:QO:337:ASN:HB3	25:QO:340:TYR:HD2	1.84	0.42
25:QQ:60:VAL:HG11	25:QQ:86:ARG:HE	1.85	0.42
29:R1:92:LEU:O	29:R1:96:HIS:ND1	2.47	0.42
24:RD:122:ILE:HD13	24:RD:122:ILE:HA	1.94	0.42
24:RD:219:ILE:HD11	24:RD:222:PRO:HB3	2.01	0.42
25:RE:235:GLY:HA3	25:RE:366:THR:HG21	2.02	0.42
24:RH:230:LEU:HD11	24:RH:275:ILE:HD13	2.01	0.42
25:RI:3:GLU:HA	25:RI:49:VAL:HA	2.02	0.42
25:RI:246:LEU:HD23	25:RI:353:VAL:HG22	2.02	0.42
25:RI:374:ILE:HD11	25:RI:422:TYR:CZ	2.55	0.42
24:RJ:167:LEU:HG	24:RJ:200:VAL:HB	2.02	0.42
24:RJ:180:ALA:HB1	25:RK:256:ASN:HD21	1.84	0.42
24:RN:9:ILE:HD11	24:RN:153:LEU:HD23	2.02	0.42
30:S2:54:ARG:O	30:S2:58:ILE:HG12	2.20	0.42
25:SC:385:PHE:HZ	25:SC:408:PHE:HB3	1.84	0.42
24:SD:9:ILE:HG13	24:SD:68:LEU:HD21	2.01	0.42
24:SH:125:LEU:HD23	24:SH:125:LEU:HA	1.93	0.42
24:SJ:71:GLU:HG2	24:SJ:73:THR:HG22	2.01	0.42
24:SJ:304:LYS:HD2	24:SJ:304:LYS:HA	1.93	0.42
24:SN:157:LEU:HD13	24:SN:166:LYS:HZ2	1.85	0.42
24:SN:248:LEU:HB2	24:SN:355:ILE:HG12	2.00	0.42
24:SP:122:ILE:HD13	24:SP:157:LEU:HD21	2.01	0.42
25:TC:317:PHE:HB3	25:TC:321:MET:SD	2.59	0.42
24:TD:130:THR:OG1	24:TD:131:GLY:N	2.53	0.42
24:TD:178:SER:HB2	25:TE:347:ASN:HD22	1.85	0.42
24:TD:229:ARG:HD3	24:TD:363:VAL:HG11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:TI:203:ASP:OD2	25:TI:302:ALA:N	2.52	0.42
24:TN:370:LYS:NZ	24:TN:372:GLN:OE1	2.43	0.42
25:TO:52:ASN:ND2	25:TO:123:GLU:OE2	2.37	0.42
25:TO:249:ASP:H	25:TO:252:LYS:HG2	1.84	0.42
24:UB:205:ASP:HB3	24:UB:303:VAL:HA	2.00	0.42
25:UG:218:THR:O	24:UH:326:LYS:NZ	2.33	0.42
24:UH:209:ILE:HA	24:UH:212:ILE:HD12	2.01	0.42
25:UI:301:CYS:SG	25:UI:302:ALA:N	2.92	0.42
25:UK:44:LEU:HA	25:UK:47:ILE:HD11	2.00	0.42
24:UP:89:PRO:HD3	24:VP:283:HIS:ND1	2.35	0.42
34:V0:11:THR:N	34:V0:30:SER:O	2.52	0.42
24:VH:91:GLN:HE22	24:VH:125:LEU:HD11	1.84	0.42
25:VK:6:HIS:NE2	25:VK:136:CYS:SG	2.75	0.42
25:VM:16:ILE:HD13	25:VM:229:ILE:HG21	2.00	0.42
25:VO:330:MET:HB3	25:VO:349:VAL:HG21	2.02	0.42
24:WH:395:PHE:HE2	24:WH:422:ARG:HB2	1.85	0.42
24:WN:10:GLY:O	24:WN:14:ILE:HG12	2.19	0.42
39:X0:212:GLU:OE1	39:X0:214:ARG:NE	2.52	0.42
39:X0:613:LYS:HE3	39:X0:615:ASN:HA	2.02	0.42
39:X2:813:ARG:N	40:Y4:17:GLU:OE1	2.52	0.42
39:X3:647:TRP:HB2	39:X3:665:TRP:CE2	2.54	0.42
24:XB:15:GLN:NE2	44:XB:501:GTP:O6	2.52	0.42
24:XB:259:LEU:HB3	24:XB:268:MET:SD	2.60	0.42
25:XC:7:ILE:HB	25:XC:135:VAL:HG12	2.00	0.42
25:XC:171:PRO:HG3	25:XC:181:GLU:HB2	2.01	0.42
25:XE:113:ILE:HG23	25:XE:117:LEU:HD23	2.01	0.42
24:XN:203:MET:HE2	24:XN:387:ILE:HD13	2.01	0.42
40:Y1:46:GLU:HG3	40:Y1:71:ARG:HH22	1.85	0.42
40:Y2:386:LEU:HB3	40:Y2:413:THR:HA	2.00	0.42
25:YC:156:ARG:NH1	25:YC:160:PRO:O	2.51	0.42
24:YD:93:ILE:HG22	24:YD:114:ILE:HD11	2.01	0.42
25:YG:330:MET:SD	25:YG:349:VAL:HG11	2.60	0.42
25:YO:21:TRP:CH2	25:YO:50:TYR:HB3	2.54	0.42
25:YO:310:TYR:HB2	25:YO:341:PHE:HD1	1.85	0.42
41:Z2:260:LYS:HA	41:Z2:266:LEU:HD11	2.02	0.42
24:ZB:276:ILE:HD12	24:ZB:281:ALA:HA	2.01	0.42
25:ZC:31:ASP:OD1	25:ZC:35:THR:N	2.37	0.42
24:ZD:311:LYS:H	24:ZD:382:THR:HG1	1.65	0.42
25:ZG:167:PHE:HA	25:ZG:200:MET:HB2	2.01	0.42
24:ZN:137:VAL:HG21	24:ZN:154:LEU:HD11	2.02	0.42
25:ZO:8:GLN:O	25:ZO:66:MET:HB3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1D:1324:GLY:O	2:1D:1327:HIS:NE2	2.53	0.42
2:1D:2181:GLN:NE2	2:1D:2188:GLU:OE2	2.51	0.42
4:2A:190:LEU:HD21	25:PQ:407:GLU:HG3	2.02	0.42
4:2A:316:ARG:NE	4:2A:354:ALA:HB2	2.32	0.42
15:9A:766:HIS:O	15:9A:770:ILE:N	2.49	0.42
15:9C:937:GLY:H	15:9C:957:PRO:HA	1.85	0.42
18:C1:415:GLU:HA	18:C1:418:GLU:OE1	2.19	0.42
18:C1:580:PRO:HA	18:C1:581:PRO:HD3	1.96	0.42
18:C2:118:GLY:HA2	18:C2:122:GLY:HA3	2.00	0.42
18:C2:580:PRO:HA	18:C2:581:PRO:HD3	1.97	0.42
18:C2:1783:ALA:HA	18:C2:1786:LYS:NZ	2.35	0.42
18:C4:92:ARG:HH22	21:F3:79:LYS:C	2.22	0.42
19:D1:171:LEU:HD13	19:D1:174:LEU:HD12	2.01	0.42
19:D1:255:LYS:H	19:D1:255:LYS:HD2	1.84	0.42
19:D2:107:LEU:HD23	19:D2:107:LEU:HA	1.84	0.42
20:E2:376:LEU:HA	20:E2:376:LEU:HD23	1.80	0.42
21:F2:13:GLN:HG2	21:F2:106:GLU:HB2	2.02	0.42
21:F2:19:ALA:HB2	21:F2:54:VAL:HG23	2.00	0.42
19:G1:181:LEU:HA	19:G1:181:LEU:HD12	1.84	0.42
19:G2:139:PRO:HA	19:G2:142:LYS:HG2	2.02	0.42
19:G3:160:ALA:HA	19:G3:163:VAL:HG12	2.02	0.42
19:G3:215:ALA:HB2	19:G3:250:ALA:HB1	2.01	0.42
19:G4:101:GLN:HB3	19:G4:141:VAL:HG12	2.02	0.42
19:G4:184:LYS:HD2	19:G4:184:LYS:HA	1.81	0.42
19:G4:203:GLN:HA	19:G4:206:VAL:HG22	2.02	0.42
19:H0:97:ARG:O	19:H0:101:GLN:HG3	2.20	0.42
19:H1:192:SER:O	19:H1:196:LYS:HG2	2.20	0.42
19:H5:181:LEU:HA	19:H5:184:LYS:HZ1	1.84	0.42
19:H5:394:ASP:OD1	19:H5:395:ASP:N	2.53	0.42
19:J0:65:LEU:HD23	19:J0:68:LEU:HD12	2.01	0.42
19:J0:355:ALA:O	19:J0:359:THR:HG23	2.19	0.42
19:K0:149:LEU:HA	19:K0:152:ILE:HG22	2.01	0.42
19:K0:191:LEU:HD23	19:K0:191:LEU:HA	1.92	0.42
19:K1:18:VAL:HG22	19:K1:57:ILE:HD11	2.02	0.42
19:K2:47:ARG:HH21	19:K2:84:ILE:HG13	1.84	0.42
19:L0:405:LYS:HE3	19:L0:448:ARG:HG3	2.02	0.42
19:L2:262:PHE:HA	19:L2:263:PRO:HD3	1.91	0.42
19:L3:128:ASP:OD1	19:L3:129:SER:N	2.53	0.42
22:M1:96:LEU:HD11	22:M1:102:GLU:HG3	2.02	0.42
22:M1:408:VAL:O	22:M1:412:ILE:HG12	2.20	0.42
22:M1:751:LEU:HD21	22:M1:756:ARG:HH12	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:N3:32:ARG:HD2	23:N3:77:ILE:HD12	2.02	0.42
25:NK:86:ARG:HE	25:OM:282:ARG:NH2	2.17	0.42
24:NL:271:SER:HB2	24:NL:377:MET:HB3	2.02	0.42
25:NM:131:GLN:O	25:NM:131:GLN:NE2	2.53	0.42
25:OC:145:SER:OG	25:OC:188:SER:OG	2.30	0.42
25:OC:406:MET:O	25:OC:409:THR:OG1	2.32	0.42
24:OF:311:LYS:N	24:OF:382:THR:OG1	2.47	0.42
24:OJ:191:THR:HG21	24:OJ:425:LEU:HD21	2.02	0.42
25:OO:22:GLU:HA	25:OO:81:TYR:HD2	1.84	0.42
24:PD:164:LYS:HE3	24:PD:164:LYS:HB3	1.79	0.42
25:PG:31:ASP:OD1	25:PG:31:ASP:N	2.53	0.42
25:PG:286:VAL:HA	25:PG:289:LEU:HB2	2.02	0.42
25:PI:221:THR:HG22	24:PJ:324:VAL:HG23	2.01	0.42
25:PO:198:GLU:HA	25:PO:264:HIS:HB2	2.02	0.42
28:Q0:537:ARG:HB2	28:Q0:537:ARG:HE	1.67	0.42
28:Q0:2092:HIS:HA	28:Q0:2558:PRO:HD2	2.01	0.42
28:Q1:2166:LEU:HD13	28:Q1:2166:LEU:HA	1.91	0.42
25:QC:20:PHE:HA	25:QC:230:SER:HB2	2.02	0.42
25:QG:175:VAL:HG11	24:QH:329:ASN:HB2	2.02	0.42
25:QI:204:ASN:O	25:QI:208:TYR:N	2.50	0.42
25:QM:55:THR:HG23	25:RM:283:ALA:HA	2.02	0.42
25:QM:134:GLN:HE21	25:QM:167:PHE:HE1	1.66	0.42
25:QO:249:ASP:H	25:QO:252:LYS:HG2	1.84	0.42
25:RE:177:ASP:N	25:RE:181:GLU:OE2	2.52	0.42
25:RI:257:LEU:HD23	25:RI:312:THR:HG22	2.02	0.42
25:RO:53:GLU:HG2	25:RO:59:TYR:HE1	1.84	0.42
25:RO:180:VAL:HB	25:RO:183:TYR:HB2	2.02	0.42
25:RO:215:LEU:HD11	25:RO:228:LEU:HD21	2.01	0.42
30:S0:110:LYS:HZ2	24:VN:47:ASP:N	2.18	0.42
25:SC:299:MET:HG3	25:SC:301:CYS:H	1.84	0.42
24:SF:116:ASP:OD1	24:SF:117:LEU:N	2.52	0.42
24:SF:210:TYR:CD1	25:SG:324:LYS:HE2	2.55	0.42
24:SH:60:LYS:NZ	24:TH:282:TYR:HB3	2.34	0.42
25:SK:171:PRO:HB3	25:SK:181:GLU:HB3	2.01	0.42
25:SM:397:TRP:CZ2	24:SN:256:GLN:HB3	2.55	0.42
24:SN:88:HIS:HA	24:SN:89:PRO:HD3	1.95	0.42
32:T1:152:ILE:HA	32:T1:174:ILE:HA	2.02	0.42
32:T2:409:MET:HG2	32:T2:421:SER:HA	2.01	0.42
25:TC:156:ARG:NH1	25:TC:160:PRO:O	2.52	0.42
24:TF:194:LEU:O	24:TF:198:THR:OG1	2.30	0.42
25:TI:47:ILE:HG22	25:TI:51:PHE:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:TK:298:ASN:C	25:TK:298:ASN:HD22	2.23	0.42
24:TL:99:ALA:HA	24:TL:110:ILE:HD11	2.02	0.42
24:TN:186:ASN:OD1	24:TN:408:TYR:OH	2.34	0.42
24:UB:34:GLY:O	24:UB:61:HIS:ND1	2.46	0.42
24:UD:326:LYS:HG3	24:UD:327:ASP:N	2.35	0.42
25:UE:207:LEU:HD21	25:UE:229:ILE:HG13	2.01	0.42
25:UG:173:PRO:HG2	25:UG:380:ARG:HE	1.84	0.42
24:UH:11:GLN:OE1	25:UI:247:ASN:ND2	2.52	0.42
24:UH:213:CYS:HB3	24:UH:219:ILE:HD11	2.02	0.42
24:UJ:336:LYS:HD3	24:UJ:351:PHE:HE2	1.85	0.42
25:UK:189:VAL:O	25:UK:193:VAL:HG13	2.20	0.42
25:UM:105:HIS:CD2	25:UM:150:LEU:HB2	2.55	0.42
25:VC:320:ARG:HH22	36:W6:11:UNK:HA	1.85	0.42
24:VD:54:SER:OG	24:VD:55:GLU:OE1	2.36	0.42
24:VD:88:HIS:HA	24:WD:283:HIS:HD2	1.84	0.42
25:VE:138:SER:HA	25:VE:169:VAL:H	1.84	0.42
25:VI:167:PHE:CE1	25:VI:233:MET:HG2	2.55	0.42
25:VM:11:GLN:NE2	24:VN:249:ASN:HB2	2.35	0.42
25:VM:391:ARG:HH22	24:VN:435:VAL:HA	1.85	0.42
25:VO:25:SER:HB2	25:VO:30:ILE:HB	2.02	0.42
24:VP:286:LEU:HD13	24:VP:371:VAL:HG23	2.02	0.42
25:WC:20:PHE:HA	25:WC:230:SER:HB2	2.00	0.42
25:WC:229:ILE:HG22	25:WC:233:MET:HE2	2.02	0.42
24:WD:425:LEU:HD23	24:WD:425:LEU:HA	1.91	0.42
25:WG:113:ILE:HA	25:WG:116:VAL:HG22	2.01	0.42
24:WH:10:GLY:O	24:WH:14:ILE:HG12	2.20	0.42
25:WK:7:ILE:HD13	25:WK:151:LEU:HD21	2.02	0.42
24:WL:345:ASP:OD2	24:WL:346:TRP:N	2.53	0.42
25:WM:372:THR:HG21	25:WM:426:GLN:HB2	2.02	0.42
39:X0:476:GLU:HG2	39:X0:480:ARG:HH21	1.85	0.42
39:X3:504:LEU:HB3	39:X3:628:LEU:HD11	2.02	0.42
39:X3:874:LEU:O	39:X3:951:VAL:HA	2.19	0.42
25:XA:253:LEU:HD11	25:XA:316:LEU:HD21	2.01	0.42
25:XE:109:GLY:O	25:XE:113:ILE:HG12	2.19	0.42
24:XF:207:GLU:OE2	24:XF:304:LYS:HG3	2.19	0.42
24:XF:236:SER:HB2	24:XF:243:ARG:HH22	1.85	0.42
24:XL:88:HIS:CE1	25:YM:278:SER:HB2	2.55	0.42
25:XM:138:SER:HA	25:XM:169:VAL:H	1.85	0.42
40:Y1:97:ASP:OD1	40:Y1:100:LYS:HB3	2.20	0.42
40:Y1:266:LEU:HD23	40:Y1:266:LEU:HA	1.74	0.42
40:Y2:241:LYS:HE2	40:Y2:241:LYS:HB3	1.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:Y2:367:THR:HG22	40:Y2:390:GLN:HB2	2.02	0.42
40:Y7:272:ALA:HA	40:Y7:275:LYS:HG2	2.02	0.42
24:YB:185:TYR:CZ	24:YB:398:MET:HB3	2.54	0.42
25:YM:391:ARG:HA	25:YM:391:ARG:HD2	1.88	0.42
25:YO:25:SER:HB2	25:YO:30:ILE:HB	2.02	0.42
41:Z2:145:LYS:HA	41:Z2:145:LYS:HD3	1.92	0.42
25:ZK:135:VAL:HG11	25:ZK:152:ILE:HD11	2.01	0.42
24:ZN:250:VAL:HG22	24:ZN:352:LYS:HE2	2.02	0.42
24:ZP:88:HIS:HA	24:ZP:89:PRO:HD3	1.95	0.42
24:ZP:237:SER:HA	24:ZP:320:ARG:HH11	1.85	0.42
2:1A:1258:LEU:HD12	2:1A:1321:LEU:HD22	2.02	0.42
2:1B:1830:ALA:HA	2:1B:1833:GLU:HG2	2.01	0.42
2:1B:2074:SER:HB2	18:C1:1585:ARG:HG3	2.01	0.42
2:1C:1247:ALA:O	2:1C:1417:ARG:NH2	2.53	0.42
2:1C:1266:HIS:HA	2:1C:1321:LEU:HG	2.00	0.42
2:1C:1595:MET:HG3	2:1C:1911:PHE:CD1	2.54	0.42
2:1C:1715:LYS:HZ3	2:1C:1898:LEU:N	2.18	0.42
2:1D:1708:LEU:HD13	2:1D:1833:GLU:HG3	2.02	0.42
2:1D:1933:LEU:HD23	2:1D:1954:LEU:HD12	2.01	0.42
4:2A:291:PHE:HA	4:2A:318:VAL:HG22	2.02	0.42
14:8A:264:ALA:HA	14:8A:267:GLU:HG3	2.02	0.42
15:9F:1694:VAL:O	15:9F:1782:GLU:N	2.53	0.42
16:A0:146:LEU:HD11	25:YO:328:GLU:OE1	2.20	0.42
17:B1:583:LYS:HE3	17:B1:583:LYS:HB3	1.83	0.42
17:B1:620:ARG:O	17:B1:624:VAL:HG23	2.20	0.42
18:C0:497:ARG:HE	18:C0:497:ARG:HB3	1.71	0.42
18:C0:1214:LYS:HG2	18:C0:1518:LEU:HD23	2.02	0.42
18:C0:1262:GLU:HA	18:C0:1265:GLU:HG3	2.00	0.42
18:C0:1596:TRP:O	18:C0:1599:THR:OG1	2.29	0.42
18:C1:430:GLU:HB2	18:C1:433:ARG:NH2	2.34	0.42
18:C1:1084:LYS:HD2	18:C1:1084:LYS:HA	1.80	0.42
18:C1:1378:THR:HG22	18:C1:1455:LEU:HD22	2.02	0.42
18:C2:1648:ILE:O	18:C2:1768:TYR:OH	2.36	0.42
18:C3:106:LYS:HD3	18:C3:106:LYS:HA	1.86	0.42
18:C3:592:LEU:HD21	18:C3:721:LYS:HG2	2.02	0.42
18:C3:1611:TYR:HB3	18:C3:1619:LEU:HD13	2.01	0.42
19:D3:369:ASP:HA	19:D3:372:LYS:HG2	2.01	0.42
19:D4:143:GLU:OE1	19:D4:147:TRP:NE1	2.51	0.42
19:D5:398:THR:HB	19:D5:402:ARG:NH1	2.35	0.42
19:D7:235:GLN:HG3	19:D7:238:LYS:HZ1	1.84	0.42
19:D7:256:ILE:HG23	19:D7:271:SER:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:E0:424:THR:HG23	25:VI:218:THR:H	1.85	0.42
20:E1:93:LYS:HD3	20:E1:93:LYS:HA	1.72	0.42
21:F2:68:ASN:HB3	21:F2:71:ASP:HB2	2.02	0.42
19:G5:121:VAL:O	19:G5:124:SER:OG	2.32	0.42
19:H0:401:ARG:HB2	19:H0:402:ARG:NH1	2.35	0.42
19:H1:262:PHE:CD1	19:H1:263:PRO:HD2	2.54	0.42
19:H3:185:ARG:CZ	19:H3:186:ILE:HG13	2.50	0.42
19:H5:77:GLU:HG3	19:H5:117:LEU:HD21	2.02	0.42
19:H5:224:LYS:HA	19:H5:227:ARG:HG2	2.00	0.42
19:H6:227:ARG:HG3	19:H6:270:HIS:ND1	2.34	0.42
19:I1:405:LYS:HE2	19:I1:445:ALA:HB1	2.01	0.42
19:J0:89:VAL:HG21	19:J0:126:ALA:HA	2.02	0.42
19:J2:394:ASP:HA	19:J2:397:LYS:HG2	2.02	0.42
19:J3:108:ARG:HB3	19:J3:151:TYR:HD2	1.85	0.42
19:J3:350:ASP:OD1	19:J3:351:HIS:N	2.52	0.42
19:K1:268:LYS:HB3	19:K1:301:TYR:HE1	1.85	0.42
19:K2:95:GLN:HB2	19:K2:99:TYR:CD2	2.54	0.42
19:K2:402:ARG:HH22	19:K2:442:ALA:HA	1.85	0.42
19:L0:402:ARG:HG2	19:L0:405:LYS:NZ	2.35	0.42
19:L1:119:GLN:HA	19:L1:122:ILE:HG22	2.02	0.42
19:L1:224:LYS:N	19:L1:227:ARG:HH21	2.17	0.42
19:L1:317:LEU:HA	19:L1:320:ILE:HG12	2.01	0.42
19:L3:65:LEU:HD13	19:L3:84:ILE:HG21	2.00	0.42
19:L3:105:PHE:HD1	19:L3:108:ARG:HH22	1.67	0.42
22:M1:844:LEU:HD12	22:M1:845:PRO:HD2	2.00	0.42
25:NK:178:THR:HG22	24:NL:352:LYS:HZ1	1.84	0.42
24:NL:16:VAL:HA	24:NL:228:ASN:HB3	2.02	0.42
24:NN:205:ASP:HB3	24:NN:303:VAL:HA	2.00	0.42
25:OC:211:CYS:HA	25:OC:215:LEU:HB2	2.02	0.42
24:OD:211:ASP:OD1	24:OD:214:ARG:NH1	2.44	0.42
25:OE:5:VAL:HG23	25:OE:130:LEU:HD11	2.01	0.42
25:OK:257:LEU:HB3	25:OK:266:PHE:HE2	1.83	0.42
25:OO:178:THR:HG22	24:OP:352:LYS:HZ1	1.85	0.42
25:OQ:32:PRO:O	25:OQ:83:GLN:NE2	2.53	0.42
25:OQ:328:GLU:O	25:OQ:332:ASN:N	2.45	0.42
25:PE:336:LYS:HA	25:PE:336:LYS:HD3	1.79	0.42
25:PI:34:GLY:HA3	25:PI:58:ARG:HD3	2.02	0.42
24:PJ:6:SER:HA	24:PJ:136:LEU:HB2	2.02	0.42
25:PK:39:ASP:OD1	25:PK:40:SER:N	2.52	0.42
25:PK:329:GLN:OE1	25:PK:332:ASN:ND2	2.52	0.42
24:PL:180:ALA:HA	25:PM:350:LYS:HG2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:PO:203:ASP:OD1	25:PO:204:ASN:N	2.53	0.42
24:PP:274:PRO:HD2	24:PP:374:ALA:HA	2.01	0.42
25:PQ:238:CYS:HA	25:PQ:241:ARG:HH21	1.84	0.42
28:Q0:243:LEU:HD23	28:Q0:243:LEU:HA	1.88	0.42
28:Q0:1068:TRP:HH2	28:Q0:2749:SER:HA	1.84	0.42
28:Q0:2536:VAL:HG21	28:Q0:2570:ALA:HB2	2.02	0.42
28:Q1:696:LEU:HD23	28:Q1:775:LEU:HD11	2.02	0.42
25:QC:217:LEU:HB2	25:QC:220:PRO:HG3	2.01	0.42
24:QH:220:GLU:O	24:QH:221:ARG:HD2	2.20	0.42
24:QH:222:PRO:HG2	25:QI:324:LYS:HZ1	1.84	0.42
25:QK:8:GLN:HB2	25:QK:65:LEU:HD13	2.02	0.42
25:QK:345:ILE:HB	25:QK:348:ASN:HD21	1.85	0.42
25:QO:113:ILE:HD12	25:QO:116:VAL:HB	2.02	0.42
24:QP:109:THR:HG21	24:QP:411:GLU:HB2	2.00	0.42
29:R1:141:GLN:HG2	29:R1:181:VAL:HG22	2.02	0.42
25:RC:62:ARG:HH21	25:RC:127:CYS:HB3	1.85	0.42
24:RD:203:MET:HE1	24:RD:267:PHE:HD1	1.85	0.42
25:RE:61:PRO:HD3	25:RE:84:ILE:HG13	2.01	0.42
25:RE:85:PHE:HB2	25:RE:90:PHE:HE1	1.83	0.42
24:SB:3:GLU:HA	24:SB:51:THR:HA	2.02	0.42
25:SI:2:ARG:NH1	25:SI:249:ASP:OD2	2.48	0.42
24:SL:223:THR:OG1	24:SL:224:TYR:N	2.53	0.42
25:SM:396:HIS:CD2	24:SN:263:PRO:HG3	2.55	0.42
24:SP:147:SER:HB2	24:SP:190:SER:HB3	2.02	0.42
25:TC:114:ASP:OD1	25:TC:114:ASP:N	2.52	0.42
25:TG:30:ILE:O	25:TG:81:TYR:OH	2.30	0.42
25:TG:54:ALA:HA	25:UG:283:ALA:HB2	2.02	0.42
24:TH:56:THR:HG23	24:UH:285:GLN:HA	2.00	0.42
25:TK:69:GLU:OE1	25:TK:70:PRO:HD2	2.19	0.42
25:TM:213:ARG:NH2	25:TM:297:LYS:HD3	2.35	0.42
24:TP:322:ASP:O	24:TP:373:ARG:NH2	2.53	0.42
33:U0:43:VAL:HG23	33:U0:44:PHE:HD1	1.84	0.42
24:UB:203:MET:HB3	24:UB:303:VAL:HG21	2.01	0.42
25:UC:141:GLY:O	25:UC:184:ASN:ND2	2.53	0.42
25:UC:192:LEU:HD22	25:UC:196:ALA:HB2	2.02	0.42
25:UE:48:ASN:OD1	25:UE:48:ASN:N	2.53	0.42
24:UH:326:LYS:HG3	24:UH:327:ASP:N	2.35	0.42
24:UJ:240:ALA:HA	24:UJ:243:ARG:HE	1.85	0.42
24:UJ:274:PRO:HG3	24:UJ:286:LEU:HD13	2.02	0.42
25:UK:232:VAL:O	25:UK:236:ILE:HG12	2.19	0.42
24:UL:150:GLY:O	24:UL:154:LEU:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:UO:14:ASN:ND2	25:UO:73:MET:SD	2.93	0.42
25:UO:100:ASN:HD21	24:UP:257:THR:HB	1.84	0.42
25:VE:220:PRO:HD2	24:VF:326:LYS:HG3	2.02	0.42
25:VK:320:ARG:HD2	25:VK:355:ASP:HB2	2.01	0.42
24:VN:423:GLU:O	24:VN:427:ALA:N	2.42	0.42
24:VP:325:PRO:HA	24:VP:328:VAL:HG12	2.00	0.42
25:WA:198:GLU:HB2	25:WA:266:PHE:HE2	1.85	0.42
24:WH:65:CYS:SG	24:WH:66:ILE:N	2.93	0.42
25:WI:27:GLU:OE1	25:WI:241:ARG:NH2	2.53	0.42
25:WI:222:PHE:HD1	25:WI:225:LEU:HD12	1.84	0.42
39:X0:106:ARG:O	39:X0:108:LEU:N	2.44	0.42
39:X0:996:CYS:HA	39:X0:1044:THR:HA	2.01	0.42
25:XC:326:VAL:O	25:XC:330:MET:HG2	2.19	0.42
24:XF:404:PHE:HZ	25:XG:312:THR:HG21	1.85	0.42
25:XK:25:SER:O	25:XK:30:ILE:N	2.48	0.42
25:XK:102:ALA:HB2	25:XK:403:MET:HE3	2.02	0.42
25:XM:171:PRO:HB3	25:XM:181:GLU:OE1	2.20	0.42
24:XN:267:PHE:HB2	24:XN:384:ILE:HG21	2.01	0.42
40:Y0:31:PRO:HG3	40:Y1:10:HIS:CD2	2.55	0.42
40:Y0:168:LYS:NZ	40:Y0:178:ASP:OD2	2.53	0.42
40:Y0:405:LYS:HD2	40:Y0:411:VAL:HG11	2.01	0.42
40:Y1:110:VAL:O	40:Y1:114:ASN:ND2	2.53	0.42
40:Y1:180:ALA:O	40:Y1:477:TRP:NE1	2.50	0.42
40:Y2:53:ARG:HG2	40:Y2:55:ILE:HD11	2.01	0.42
40:Y3:415:HIS:HD2	40:Y3:439:THR:HA	1.84	0.42
40:Y6:446:GLU:HB3	40:Y7:445:SER:OG	2.20	0.42
24:YB:210:TYR:HA	25:YC:324:LYS:NZ	2.35	0.42
25:YK:173:PRO:HD2	25:YK:205:GLU:HG3	2.01	0.42
25:YK:200:MET:HG2	25:YK:266:PHE:HB2	2.02	0.42
25:YM:335:ASN:OD1	25:YM:336:LYS:N	2.53	0.42
24:YN:210:TYR:CD1	25:YO:324:LYS:HB2	2.55	0.42
41:Z1:463:GLY:HA3	41:Z1:507:ILE:HD11	2.02	0.42
24:ZB:174:SER:HB2	24:ZB:207:GLU:OE1	2.20	0.42
24:ZD:258:ASN:HD22	24:ZD:352:LYS:HB2	1.85	0.42
25:ZE:204:ASN:O	25:ZE:208:TYR:N	2.53	0.42
25:ZE:221:THR:HA	24:ZF:325:PRO:HD2	2.01	0.42
25:ZG:21:TRP:CZ3	25:ZG:61:PRO:HB3	2.55	0.42
25:ZG:204:ASN:OD1	46:ZG:501:GDP:O2'	2.30	0.42
24:ZH:71:GLU:HG2	24:ZH:73:THR:HG22	2.01	0.42
25:ZI:133:PHE:HB2	25:ZI:164:MET:SD	2.60	0.42
25:ZM:267:MET:SD	25:ZM:371:SER:OG	2.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:ZN:132:LEU:HB3	24:ZN:164:LYS:HZ1	1.85	0.42
25:ZO:299:MET:HE2	25:ZO:367:PHE:HE1	1.85	0.42
2:1A:2056:ALA:HB1	2:1A:2096:ASP:HB3	2.02	0.42
2:1A:2085:SER:OG	2:1A:2086:GLY:N	2.53	0.42
2:1B:1443:SER:OG	2:1B:1444:ASP:N	2.53	0.42
2:1C:1244:LEU:HD11	2:1C:1326:PRO:HD2	2.02	0.42
13:7A:122:GLY:N	13:7A:138:TRP:O	2.48	0.42
13:7F:99:GLY:N	13:7F:115:TRP:O	2.52	0.42
14:8D:33:ARG:HA	14:8D:33:ARG:HH11	1.84	0.42
18:C0:714:VAL:HG13	18:C0:718:LYS:HZ1	1.85	0.42
18:C0:882:GLN:HE22	39:X0:144:ARG:NH1	2.17	0.42
18:C0:941:CYS:HB2	18:C0:1064:ALA:HB2	2.01	0.42
18:C1:627:LEU:HG	18:C1:712:LEU:HD23	2.01	0.42
18:C2:423:GLU:HA	18:C2:426:ARG:HG3	2.02	0.42
18:C3:710:VAL:HG21	18:C3:779:LEU:HB3	2.01	0.42
18:C4:66:THR:HA	18:C4:69:ASN:HD22	1.85	0.42
19:D2:405:LYS:O	19:D2:421:VAL:N	2.52	0.42
19:D3:170:PRO:HA	19:D3:173:VAL:HG22	2.02	0.42
19:D5:108:ARG:HD3	19:D5:147:TRP:HB3	2.02	0.42
19:D6:70:ASN:OD1	19:D6:112:ARG:NH2	2.53	0.42
19:D7:273:THR:HA	19:D7:276:ARG:HG2	2.01	0.42
21:F0:516:GLU:O	21:F0:531:LYS:N	2.45	0.42
19:G0:118:ALA:O	19:G0:122:ILE:HG12	2.19	0.42
19:G3:199:PRO:HG3	19:G3:239:HIS:HB3	2.01	0.42
19:G4:276:ARG:NH2	19:G4:315:MET:HB3	2.31	0.42
19:H5:358:TRP:HA	19:H5:400:CYS:SG	2.60	0.42
19:H5:401:ARG:HH12	19:H5:402:ARG:NH2	2.18	0.42
19:H7:234:SER:HB2	19:H7:273:THR:HG22	2.01	0.42
19:I0:15:LYS:HD2	19:I0:15:LYS:HA	1.75	0.42
19:I1:182:SER:O	19:I1:186:ILE:HG12	2.19	0.42
19:J3:107:LEU:HA	19:J3:110:VAL:HG12	2.01	0.42
19:J3:369:ASP:OD1	19:J3:370:HIS:N	2.53	0.42
19:K0:397:LYS:HA	19:K0:400:CYS:SG	2.60	0.42
19:K2:369:ASP:HA	19:K2:372:LYS:HG2	2.01	0.42
19:K2:380:LEU:HA	19:K2:383:LEU:HD12	2.01	0.42
19:K3:265:GLU:HA	19:K3:268:LYS:HE2	2.01	0.42
22:M1:112:GLN:HE21	22:M1:114:ARG:HD3	1.85	0.42
23:N1:74:VAL:HA	23:N1:75:PRO:HD3	1.84	0.42
25:NC:7:ILE:HD13	25:NC:151:LEU:HD21	2.01	0.42
25:NG:232:VAL:HG23	25:NG:270:PHE:HB2	2.02	0.42
24:NJ:209:ILE:HA	24:NJ:212:ILE:HG22	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:NL:395:PHE:HE2	24:NL:422:ARG:HD3	1.85	0.42
24:NN:56:THR:HG22	24:OP:285:GLN:HB2	2.02	0.42
24:NN:283:HIS:HB3	24:ZN:88:HIS:CD2	2.55	0.42
25:NO:284:LEU:HG	25:NO:362:LYS:HE3	2.01	0.42
25:NO:286:VAL:HA	25:NO:289:LEU:HB2	2.02	0.42
26:O0:642:PHE:HA	26:O0:693:ALA:HA	2.01	0.42
25:OC:298:ASN:ND2	25:OC:298:ASN:O	2.53	0.42
24:OJ:175:PRO:HD3	24:OJ:390:ARG:HH21	1.84	0.42
24:OL:194:LEU:O	24:OL:198:THR:OG1	2.33	0.42
24:ON:9:ILE:HG22	24:ON:146:GLY:HA2	2.01	0.42
24:ON:121:ARG:NH2	24:ON:124:LYS:HG3	2.35	0.42
24:ON:276:ILE:HD12	24:ON:281:ALA:HA	2.02	0.42
25:PC:321:MET:SD	25:PC:321:MET:N	2.93	0.42
24:PD:213:CYS:HA	24:PD:217:LEU:HB2	2.02	0.42
24:PF:205:ASP:HB2	24:PF:303:VAL:HG13	2.01	0.42
25:PG:149:THR:HA	25:PG:152:ILE:HG22	2.02	0.42
24:PH:177:VAL:HG11	25:PI:324:LYS:NZ	2.35	0.42
24:PJ:8:HIS:ND1	24:PJ:65:CYS:SG	2.85	0.42
25:PK:394:PHE:HD1	24:PL:261:PRO:HA	1.84	0.42
28:Q0:2886:LEU:HD23	28:Q0:2886:LEU:HA	1.90	0.42
28:Q1:963:ASN:OD1	28:Q1:964:LYS:N	2.53	0.42
28:Q1:2199:ARG:HB3	28:Q1:2222:LEU:HD11	2.02	0.42
28:Q1:2364:HIS:HB2	28:Q1:2467:ARG:HH22	1.85	0.42
25:QC:3:GLU:HA	25:QC:49:VAL:HA	2.02	0.42
24:QD:3:GLU:OE2	24:QD:130:THR:N	2.52	0.42
24:QD:269:LEU:N	24:QD:379:SER:O	2.47	0.42
25:QE:134:GLN:HE21	25:QE:167:PHE:HE1	1.67	0.42
24:QF:168:GLY:O	24:QF:202:VAL:N	2.41	0.42
25:QI:3:GLU:HG2	25:QI:130:LEU:HD13	2.02	0.42
25:QI:156:ARG:HD3	25:QI:160:PRO:HA	2.01	0.42
25:QO:173:PRO:HA	25:QO:380:ARG:HH12	1.84	0.42
25:QO:256:ASN:O	25:QO:312:THR:HG21	2.20	0.42
24:QP:217:LEU:HD21	24:QP:275:ILE:HG22	2.01	0.42
24:QP:221:ARG:HA	25:QQ:324:LYS:HZ1	1.85	0.42
24:QP:292:THR:HG21	24:QP:331:SER:HB3	2.02	0.42
25:QQ:31:ASP:OD2	25:QQ:35:THR:OG1	2.38	0.42
29:R1:7:LEU:HD22	29:R1:26:VAL:HG13	2.02	0.42
25:RC:47:ILE:HG22	25:RC:51:PHE:HB2	2.02	0.42
24:RD:14:ILE:O	24:RD:18:ASN:N	2.42	0.42
25:RE:239:CYS:SG	25:RE:248:ALA:N	2.91	0.42
24:RL:33:ASP:HA	24:RL:85:GLN:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:RL:401:LYS:HD3	25:RM:344:TRP:CD2	2.54	0.42
24:RP:89:PRO:HG2	24:SP:280:LYS:HZ2	1.84	0.42
30:S2:30:ASN:OD1	30:S2:31:ALA:N	2.52	0.42
24:SB:3:GLU:N	24:SB:133:GLN:HE22	2.18	0.42
24:SB:319:TYR:N	24:SB:354:GLY:O	2.44	0.42
24:SD:213:CYS:SG	24:SD:222:PRO:HG2	2.60	0.42
25:SE:237:THR:HB	25:SE:240:LEU:HB2	2.02	0.42
24:SF:406:HIS:CD2	25:SG:261:PRO:HG3	2.55	0.42
24:SH:165:SER:HB3	24:SH:256:GLN:HE21	1.84	0.42
24:SH:270:SER:HB3	24:SH:302:MET:HB2	2.01	0.42
25:SI:67:ASP:OD1	25:SI:68:LEU:N	2.53	0.42
25:SO:113:ILE:HG13	25:SO:117:LEU:HD23	2.01	0.42
32:T0:387:TYR:HB3	32:T0:479:VAL:HG22	2.02	0.42
24:TB:7:ILE:N	24:TB:136:LEU:O	2.41	0.42
24:TB:286:LEU:HD12	24:TB:291:ILE:HG22	2.02	0.42
24:TF:2:ARG:HG2	24:TF:51:THR:HG22	2.02	0.42
24:TF:50:ASN:O	24:TF:64:ARG:NH1	2.53	0.42
25:TG:253:LEU:HB3	25:TG:257:LEU:HD12	2.02	0.42
25:TG:284:LEU:HD23	25:TG:362:LYS:HE3	2.02	0.42
24:TH:130:THR:OG1	24:TH:131:GLY:N	2.53	0.42
24:TH:210:TYR:HA	25:TI:324:LYS:HZ3	1.85	0.42
25:UK:209:ASP:OD2	25:UK:213:ARG:NE	2.53	0.42
25:UK:236:ILE:HD12	25:UK:368:ILE:HD11	2.02	0.42
25:UK:313:ALA:HB3	25:UK:349:VAL:HG22	2.02	0.42
24:UL:328:VAL:HG11	24:UL:355:ILE:HD11	2.02	0.42
25:UM:68:LEU:HG	25:UM:97:ALA:HB2	2.02	0.42
24:UN:65:CYS:H	24:UN:91:GLN:NE2	2.18	0.42
25:UO:292:GLN:HG2	25:UO:298:ASN:HD22	1.83	0.42
24:VD:91:GLN:NE2	24:VD:121:ARG:HH21	2.17	0.42
24:VF:121:ARG:HE	24:VF:121:ARG:HB3	1.66	0.42
25:VG:67:ASP:OD1	25:VG:68:LEU:N	2.52	0.42
24:VH:3:GLU:HA	24:VH:51:THR:HA	2.01	0.42
24:VH:122:ILE:HD13	24:VH:122:ILE:HA	1.90	0.42
24:VJ:50:ASN:HA	24:VJ:54:SER:HB2	2.01	0.42
24:VJ:356:ASN:OD1	24:VJ:357:TYR:N	2.52	0.42
25:VO:171:PRO:HG2	25:VO:185:ALA:HB2	2.01	0.42
25:VO:397:TRP:HE1	24:VP:260:VAL:HG23	1.84	0.42
24:WB:3:GLU:OE2	24:WB:130:THR:N	2.53	0.42
25:WC:325:GLU:N	25:WC:325:GLU:OE1	2.53	0.42
24:WF:190:SER:O	24:WF:194:LEU:N	2.47	0.42
25:WK:304:ASP:OD1	25:WK:306:ARG:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:WL:238:LEU:HB2	24:WL:255:PHE:HZ	1.84	0.42
24:WN:217:LEU:HD23	24:WN:217:LEU:HA	1.88	0.42
39:X0:503:LYS:HD2	39:X0:505:GLU:H	1.84	0.42
39:X2:166:THR:HA	39:X2:188:LEU:HA	2.01	0.42
25:XA:105:HIS:CE1	25:XA:150:LEU:HB2	2.54	0.42
25:XC:220:PRO:O	24:XD:326:LYS:NZ	2.52	0.42
24:XD:17:GLY:HA2	24:XD:20:CYS:HB2	2.01	0.42
25:XE:113:ILE:HA	25:XE:116:VAL:HG22	2.02	0.42
24:XF:245:ASP:OD1	24:XF:245:ASP:N	2.53	0.42
25:XK:20:PHE:HA	25:XK:230:SER:HB2	2.02	0.42
40:Y0:94:ARG:HD2	40:Y0:104:LYS:HA	2.02	0.42
40:Y0:191:SER:HA	40:Y0:212:ILE:O	2.20	0.42
40:Y0:329:LYS:HG2	40:Y0:330:LYS:HE3	2.01	0.42
40:Y1:214:PRO:HA	40:Y1:282:VAL:HG12	2.01	0.42
40:Y2:43:THR:HA	40:Y3:32:LEU:HD21	2.01	0.42
40:Y5:117:ILE:HG21	40:Y5:156:VAL:HG21	2.02	0.42
40:Y6:338:ASP:OD1	40:Y6:362:ASP:N	2.35	0.42
25:YC:99:ASN:ND2	24:YD:254:GLU:OE1	2.53	0.42
24:YD:102:ASN:H	24:YD:144:GLY:HA3	1.85	0.42
25:YI:22:GLU:HG2	25:YI:81:TYR:HD2	1.84	0.42
41:Z2:52:ILE:HD12	41:Z2:128:LYS:HE3	2.02	0.42
24:ZD:116:ASP:OD1	24:ZD:117:LEU:N	2.52	0.42
24:ZF:265:ILE:HG22	24:ZF:380:ASN:HD21	1.83	0.42
24:ZJ:212:ILE:HD13	24:ZJ:300:SER:HA	2.01	0.42
25:ZK:100:ASN:HB3	25:ZK:103:LYS:HG2	2.02	0.42
24:ZL:313:MET:SD	24:ZL:380:ASN:ND2	2.93	0.42
2:1A:1274:PHE:HE1	2:1A:1305:VAL:HG11	1.85	0.41
2:1A:2011:VAL:HG22	2:1A:2013:PRO:HD3	2.00	0.41
2:1A:2244:ASP:OD1	2:1A:2244:ASP:N	2.53	0.41
2:1B:1307:THR:HA	2:1B:1310:LEU:HG	2.02	0.41
2:1B:1718:ASN:ND2	2:1B:1794:LEU:HB2	2.34	0.41
2:1B:2289:VAL:HG21	2:1B:2300:VAL:HG21	2.02	0.41
2:1C:1258:LEU:HD12	2:1C:1321:LEU:HD22	2.01	0.41
2:1C:1443:SER:OG	2:1C:1444:ASP:N	2.52	0.41
2:1C:1542:ARG:HH12	2:1C:2049:ASN:ND2	2.17	0.41
2:1C:2193:THR:HG22	2:1C:2240:ALA:HB3	2.00	0.41
2:1D:1589:LYS:HE3	2:1D:1589:LYS:HB3	1.86	0.41
2:1D:1604:LEU:HD13	2:1D:1701:LEU:HB3	2.02	0.41
2:1D:2094:LEU:HD11	2:1D:2167:VAL:HG11	2.02	0.41
4:2A:322:SER:HB3	25:OQ:421:GLU:OE2	2.20	0.41
14:8C:271:GLU:OE2	19:J1:351:HIS:ND1	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:C1:1795:ASN:HD21	18:C1:1800:ALA:HB1	1.85	0.41
18:C3:586:LEU:HD21	18:C3:714:VAL:HG21	2.01	0.41
18:C3:623:GLU:OE1	18:C3:626:ALA:N	2.47	0.41
18:C3:773:THR:HG22	18:C3:893:LEU:HD11	2.01	0.41
18:C4:39:ASN:ND2	18:C4:127:PRO:O	2.53	0.41
20:E1:51:ARG:NH1	20:E1:52:LYS:HG3	2.35	0.41
20:E2:380:LYS:O	24:VB:215:ARG:NH2	2.53	0.41
19:G1:233:LEU:HA	19:G1:236:ILE:HG12	2.02	0.41
19:G2:302:ILE:O	19:G2:310:ARG:NH1	2.52	0.41
19:G4:280:LYS:HA	19:G4:319:TYR:HE2	1.85	0.41
19:G4:317:LEU:HA	19:G4:320:ILE:HG12	2.01	0.41
19:G5:89:VAL:HG23	19:G5:92:LEU:HD12	2.02	0.41
19:H2:282:THR:HG23	19:H2:285:LEU:H	1.85	0.41
19:H3:55:PRO:HA	19:H3:58:GLN:HG3	2.01	0.41
19:H5:147:TRP:HA	19:H5:186:ILE:HG21	2.02	0.41
19:I1:275:VAL:HG12	19:I1:316:ALA:HB1	2.02	0.41
19:J3:218:VAL:HB	19:J3:255:LYS:HD2	2.01	0.41
19:K2:107:LEU:HA	19:K2:110:VAL:HG22	2.01	0.41
19:K2:203:GLN:HA	19:K2:206:VAL:HG12	2.02	0.41
19:L0:220:ASN:O	19:L0:226:LYS:NZ	2.48	0.41
19:L0:282:THR:HG23	19:L0:285:LEU:H	1.85	0.41
19:L3:264:ASP:HB3	19:L3:267:VAL:HG22	2.01	0.41
22:M0:753:ILE:HG12	28:Q0:2025:HIS:ND1	2.35	0.41
22:M1:96:LEU:HA	25:UK:424:GLN:HE22	1.85	0.41
22:M1:392:VAL:HA	22:M1:395:VAL:HG12	2.01	0.41
23:N0:531:GLY:O	23:N0:535:LEU:N	2.46	0.41
24:NB:76:ASP:OD2	25:NC:46:ARG:NH2	2.54	0.41
25:NE:184:ASN:OD1	25:NE:398:TYR:OH	2.34	0.41
25:NO:135:VAL:HG21	25:NO:152:ILE:HD11	2.02	0.41
25:NO:283:ALA:HA	25:ZO:55:THR:HG23	2.01	0.41
26:O1:147:LEU:HB3	26:O1:172:LEU:HD21	2.02	0.41
26:O2:105:LEU:HA	26:O2:108:ARG:HD3	2.02	0.41
25:OC:8:GLN:HB2	25:OC:65:LEU:HD13	2.02	0.41
25:OC:33:THR:HA	25:OC:83:GLN:HE22	1.84	0.41
24:OF:76:ASP:HA	24:OF:79:ARG:HB2	2.02	0.41
25:OG:207:LEU:HD11	25:OG:229:ILE:HD11	2.02	0.41
25:OI:376:GLU:HA	25:OI:379:LYS:HZ3	1.84	0.41
25:OM:152:ILE:HG23	25:OM:164:MET:HE2	2.02	0.41
25:OM:417:ASP:O	25:OM:420:SER:OG	2.29	0.41
25:PC:404:ASP:OD1	25:PC:405:GLU:N	2.53	0.41
25:PE:386:THR:O	25:PE:390:ARG:NE	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:PL:115:VAL:HA	24:PL:118:ALA:HB3	2.01	0.41
24:PP:28:HIS:CE1	24:PP:244:PHE:HZ	2.35	0.41
24:PP:136:LEU:HD13	24:PP:235:ILE:HD11	2.02	0.41
24:PP:205:ASP:HB3	24:PP:303:VAL:HA	2.02	0.41
25:PQ:289:LEU:HD22	25:PQ:317:PHE:HE1	1.85	0.41
28:Q1:899:GLN:NE2	28:Q1:915:LEU:O	2.53	0.41
28:Q1:1235:ALA:HA	28:Q1:1293:LEU:HD22	2.02	0.41
25:QC:130:LEU:HB2	25:QC:162:ARG:HE	1.84	0.41
24:QF:422:ARG:NH1	24:QF:426:ALA:HB2	2.36	0.41
25:QG:396:HIS:CD2	24:QH:263:PRO:HG3	2.55	0.41
24:QH:97:GLU:HB3	25:QI:251:ARG:HH22	1.84	0.41
24:QJ:265:ILE:HG23	24:QJ:432:PHE:HE1	1.84	0.41
24:RD:88:HIS:CD2	24:SD:283:HIS:HB2	2.51	0.41
25:RO:156:ARG:NH1	25:RO:195:ASN:O	2.50	0.41
25:RO:253:LEU:HD21	25:RO:316:LEU:HD21	2.01	0.41
24:SF:214:ARG:HD2	24:SF:215:ARG:HB2	2.01	0.41
24:SF:271:SER:HA	24:SF:302:MET:HG2	2.02	0.41
25:SG:103:LYS:HE2	25:SG:103:LYS:HB2	1.80	0.41
24:SJ:209:ILE:HG12	24:SJ:302:MET:HG2	2.01	0.41
24:SN:317:LEU:N	24:SN:352:LYS:O	2.42	0.41
25:SO:145:SER:OG	25:SO:146:GLY:N	2.53	0.41
32:T2:541:LEU:HD23	32:T2:541:LEU:HA	1.93	0.41
24:TD:75:VAL:HG11	24:TD:94:SER:HA	2.01	0.41
25:TG:130:LEU:O	25:TG:162:ARG:NH1	2.52	0.41
25:TM:391:ARG:HG3	24:TN:346:TRP:CD1	2.55	0.41
24:TN:137:VAL:HG21	24:TN:154:LEU:HD21	2.02	0.41
24:UB:137:VAL:HG21	24:UB:154:LEU:HD21	2.01	0.41
24:UB:223:THR:OG1	24:UB:224:TYR:N	2.52	0.41
24:UD:224:TYR:HD1	24:UD:227:LEU:HD12	1.84	0.41
25:UG:114:ASP:OD1	25:UG:114:ASP:N	2.53	0.41
25:UG:304:ASP:HB3	25:UG:307:HIS:HD2	1.85	0.41
24:UL:149:LEU:HD12	24:UL:149:LEU:HA	1.95	0.41
24:UN:280:LYS:HE2	24:UN:280:LYS:HB3	1.84	0.41
24:VF:5:ILE:HG12	24:VF:64:ARG:HD3	2.01	0.41
24:VF:276:ILE:HB	24:VF:280:LYS:HB2	2.01	0.41
25:VG:198:GLU:HG2	25:VG:266:PHE:HE2	1.84	0.41
25:VG:257:LEU:HB3	25:VG:266:PHE:CE1	2.56	0.41
24:VH:320:ARG:O	24:VH:373:ARG:HA	2.19	0.41
25:VI:316:LEU:O	25:VI:365:ALA:HA	2.20	0.41
24:WD:102:ASN:ND2	24:WD:411:GLU:OE2	2.53	0.41
24:WF:297:GLU:OE1	24:WF:298:PRO:HD2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:WH:76:ASP:HA	24:WH:79:ARG:HB2	2.01	0.41
24:WH:90:GLU:HG2	24:XH:280:LYS:HZ2	1.85	0.41
25:WK:156:ARG:NH1	25:WK:195:ASN:O	2.53	0.41
24:WL:206:ASN:HD22	24:WL:206:ASN:HA	1.59	0.41
24:WN:297:GLU:OE2	24:WN:298:PRO:HD2	2.20	0.41
39:X2:130:LEU:HG	39:X2:131:ARG:HG3	2.02	0.41
39:X3:251:LEU:HB3	39:X3:254:LEU:HB2	2.01	0.41
24:XF:363:VAL:HG23	24:XF:366:GLY:HA3	2.01	0.41
24:XJ:88:HIS:NE2	25:YK:278:SER:OG	2.41	0.41
25:XK:103:LYS:HG3	25:XK:108:GLU:OE1	2.20	0.41
24:XL:175:PRO:HD3	24:XL:390:ARG:CZ	2.49	0.41
40:Y1:239:LYS:HZ3	40:Y1:244:GLN:HA	1.85	0.41
24:YD:152:LEU:O	24:YD:155:GLU:HB3	2.20	0.41
24:YF:319:TYR:O	24:YF:356:ASN:N	2.48	0.41
25:YI:100:ASN:HB3	25:YI:103:LYS:HB2	2.02	0.41
25:YO:62:ARG:NH1	25:YO:127:CYS:HB3	2.35	0.41
25:YO:318:ARG:HA	25:YO:354:CYS:O	2.20	0.41
24:YP:255:PHE:O	24:YP:259:LEU:HB2	2.20	0.41
24:YP:272:TYR:HB3	24:YP:275:ILE:HD11	2.02	0.41
41:Z1:344:GLY:O	41:Z1:347:THR:OG1	2.35	0.41
41:Z1:529:GLU:O	41:Z1:533:ALA:N	2.47	0.41
41:Z2:556:ARG:O	41:Z2:560:ARG:HG2	2.19	0.41
41:Z3:204:PHE:HB3	41:Z3:342:LEU:HD13	2.01	0.41
41:Z3:291:ASP:OD1	41:Z3:291:ASP:N	2.49	0.41
24:ZF:65:CYS:SG	24:ZF:66:ILE:N	2.93	0.41
25:ZI:314:SER:HA	25:ZI:350:LYS:HB3	2.02	0.41
24:ZJ:271:SER:HB2	24:ZJ:377:MET:HB3	2.01	0.41
24:ZL:109:THR:O	24:ZL:112:LYS:NZ	2.50	0.41
25:ZM:132:GLY:HA3	25:ZM:163:MET:HB2	2.02	0.41
2:1A:1274:PHE:O	2:1A:1278:ARG:HG2	2.19	0.41
2:1B:1521:GLN:HB3	2:1B:1523:PRO:HD2	2.02	0.41
2:1B:1522:ASP:OD1	2:1B:1523:PRO:HD3	2.20	0.41
2:1B:1814:LEU:HD11	42:1B:2601:ADP:N3	2.35	0.41
2:1C:1934:VAL:HG23	2:1C:1976:ASN:HB3	2.01	0.41
2:1D:1954:LEU:HD23	2:1D:1954:LEU:HA	1.88	0.41
14:8A:59:TRP:O	25:XO:279:GLN:NE2	2.49	0.41
18:C0:908:ARG:NE	18:C0:910:PRO:HG3	2.36	0.41
18:C0:1259:LYS:NZ	18:C0:1263:GLU:OE2	2.53	0.41
18:C1:466:ALA:HB1	18:C1:470:ARG:HH22	1.85	0.41
18:C1:956:GLU:HA	18:C1:959:HIS:HD1	1.85	0.41
18:C1:1515:ASP:HB3	18:C1:1526:ASP:HB2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:C1:1662:LEU:HD11	18:C1:1766:LEU:HD22	2.02	0.41
18:C2:21:LEU:HB3	18:C2:25:PHE:HD2	1.85	0.41
18:C2:1222:LEU:HD11	18:C2:1530:LEU:HD21	2.02	0.41
18:C2:1778:ASP:O	18:C2:1779:ARG:HD2	2.20	0.41
18:C3:427:ARG:HD3	18:C3:427:ARG:HA	1.80	0.41
18:C4:48:ASP:OD2	18:C4:50:LYS:NZ	2.52	0.41
19:D2:280:LYS:HG3	19:D2:319:TYR:CE2	2.54	0.41
19:D2:301:TYR:OH	19:D2:309:ASN:O	2.25	0.41
19:D3:63:LEU:HD11	19:D3:67:ARG:HH21	1.85	0.41
19:D5:111:ALA:O	19:D5:155:HIS:NE2	2.36	0.41
21:F2:115:ASP:OD1	21:F2:116:ASN:N	2.53	0.41
19:G2:97:ARG:HD2	19:G2:138:ASP:HB2	2.02	0.41
19:G3:182:SER:HA	19:G3:185:ARG:HD2	2.02	0.41
19:G4:17:ARG:HH12	19:G5:45:LEU:HD22	1.84	0.41
19:G4:37:LEU:HD23	19:G4:68:LEU:HD21	2.01	0.41
19:G5:24:VAL:HG12	19:G5:64:ALA:HB1	2.01	0.41
19:G5:79:VAL:HG13	19:G5:84:ILE:HD13	2.03	0.41
19:G5:257:LEU:HD21	19:G5:294:GLY:HA2	2.01	0.41
19:H1:139:PRO:HB3	19:H1:183:LEU:HD11	2.02	0.41
19:H1:287:GLN:HA	19:H1:290:VAL:HG22	2.01	0.41
19:H6:337:LEU:HD23	19:H6:340:LEU:HD21	2.02	0.41
19:K0:337:LEU:HB3	19:K0:377:THR:HG21	2.01	0.41
19:K3:253:PHE:HA	19:K3:256:ILE:HD12	2.01	0.41
19:L0:206:VAL:HG21	19:L0:246:VAL:HG11	2.01	0.41
19:L1:269:LYS:HG2	19:L1:309:ASN:ND2	2.34	0.41
19:L3:72:SER:OG	19:L3:74:ASP:OD1	2.30	0.41
19:L3:253:PHE:HE1	19:L3:275:VAL:HG23	1.85	0.41
22:M0:821:ASP:N	28:Q0:634:ASP:OD1	2.53	0.41
22:M0:969:LEU:HD13	22:M0:969:LEU:HA	1.87	0.41
22:M1:26:LEU:HD13	22:M1:30:ARG:HH11	1.84	0.41
23:N3:9:THR:O	23:N3:13:GLU:HG3	2.20	0.41
23:N3:51:VAL:HG22	23:N3:54:GLU:HB3	2.01	0.41
24:NB:247:ALA:HB3	24:NB:355:ILE:HD11	2.01	0.41
24:NJ:320:ARG:HE	24:NJ:320:ARG:HB3	1.58	0.41
26:O1:301:ARG:HA	26:O1:304:LEU:HG	2.02	0.41
25:OC:294:TRP:CD1	25:OC:333:VAL:HG21	2.55	0.41
24:OH:141:VAL:HG23	24:OH:173:PRO:HD3	2.03	0.41
24:OJ:288:VAL:HA	24:OJ:291:ILE:HG12	2.02	0.41
25:PC:83:GLN:O	25:QC:281:TYR:OH	2.25	0.41
25:PI:320:ARG:HD2	25:PI:320:ARG:HA	1.73	0.41
25:PK:91:VAL:HG11	25:PK:116:VAL:HG12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:PL:14:ILE:HD11	24:PL:74:VAL:HG13	2.03	0.41
25:PM:391:ARG:HG2	24:PN:346:TRP:CD1	2.55	0.41
24:PN:273:ALA:HB3	24:PN:375:VAL:HB	2.02	0.41
24:PN:345:ASP:OD1	24:PN:345:ASP:N	2.51	0.41
25:PO:171:PRO:HB3	25:PO:181:GLU:HG3	2.01	0.41
24:PP:102:ASN:HB3	24:PP:105:ARG:HB2	2.02	0.41
24:PP:123:ARG:HH22	37:W7:53:UNK:C	2.33	0.41
25:PQ:289:LEU:HD22	25:PQ:317:PHE:CE1	2.56	0.41
28:Q0:692:LEU:HD12	28:Q0:692:LEU:HA	1.83	0.41
28:Q1:243:LEU:HD23	28:Q1:243:LEU:HA	1.87	0.41
28:Q1:3141:LEU:HD21	28:Q1:3192:PHE:HZ	1.84	0.41
24:QF:200:VAL:HG11	24:QF:255:PHE:HE2	1.86	0.41
25:QG:109:GLY:O	25:QG:113:ILE:HG12	2.20	0.41
24:QH:188:VAL:HG13	24:QH:189:LEU:HD12	2.02	0.41
25:QK:284:LEU:HD13	25:QK:363:MET:HG2	2.02	0.41
29:R1:2184:LEU:O	29:R1:2188:ALA:HB2	2.20	0.41
25:RC:208:TYR:CD2	24:RD:326:LYS:HE2	2.55	0.41
24:RD:101:ASN:HB3	24:RD:186:ASN:HD21	1.86	0.41
24:RH:33:ASP:HA	24:RH:85:GLN:HB2	2.02	0.41
25:RI:192:LEU:HD23	25:RI:192:LEU:HA	1.93	0.41
24:RL:223:THR:OG1	24:RL:224:TYR:N	2.52	0.41
25:RO:190:HIS:CE1	25:RO:410:GLU:HG3	2.55	0.41
25:RO:256:ASN:ND2	25:RO:350:LYS:HG3	2.34	0.41
24:RP:208:ALA:HA	24:RP:211:ASP:HB2	2.02	0.41
30:S3:62:GLU:O	30:S3:66:ILE:HG12	2.20	0.41
24:SB:265:ILE:HG22	24:SB:380:ASN:HD21	1.86	0.41
25:SC:134:GLN:HB2	25:SC:165:LEU:HD12	2.01	0.41
24:SH:177:VAL:HG13	25:SI:327:ASP:OD2	2.21	0.41
25:SI:205:GLU:HA	25:SI:208:TYR:HB2	2.03	0.41
25:SM:319:GLY:N	25:SM:354:CYS:O	2.49	0.41
32:T1:466:LEU:HD23	32:T1:466:LEU:HA	1.89	0.41
25:TC:167:PHE:HA	25:TC:200:MET:HB2	2.02	0.41
24:TF:221:ARG:NH1	25:TG:322:SER:H	2.18	0.41
24:TF:247:ALA:HB3	24:TF:355:ILE:HB	2.02	0.41
25:TG:48:ASN:O	25:TG:62:ARG:NH2	2.40	0.41
25:TG:221:THR:HA	24:TH:325:PRO:HG2	2.01	0.41
25:TK:204:ASN:OD1	46:TK:501:GDP:O2'	2.37	0.41
24:TL:173:PRO:HB2	24:TL:391:LEU:HD21	2.02	0.41
25:TM:304:ASP:HB3	25:TM:307:HIS:CD2	2.55	0.41
24:UD:99:ALA:HA	24:UD:105:ARG:HD2	2.00	0.41
24:UJ:36:MET:HA	24:UJ:37:PRO:HD3	1.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:UO:380:ARG:HH21	25:UO:384:GLN:HE22	1.68	0.41
24:UP:280:LYS:HD2	24:UP:280:LYS:HA	1.86	0.41
25:VK:67:ASP:OD2	25:VK:68:LEU:N	2.46	0.41
25:VO:27:GLU:OE2	25:VO:241:ARG:NH2	2.53	0.41
25:WA:36:TYR:HB2	25:WA:59:TYR:HE2	1.85	0.41
25:WA:276:ARG:HD3	25:WA:276:ARG:HA	1.54	0.41
24:WB:70:LEU:HA	24:WB:95:GLY:HA3	2.02	0.41
24:WB:273:ALA:HB1	24:WB:291:ILE:HB	2.01	0.41
25:WC:8:GLN:HB2	25:WC:65:LEU:HD23	2.02	0.41
25:WC:103:LYS:NZ	25:WC:108:GLU:OE2	2.52	0.41
25:WE:274:THR:OG1	25:WE:275:SER:N	2.53	0.41
25:WE:292:GLN:HG2	25:WE:298:ASN:ND2	2.35	0.41
25:WI:362:LYS:O	25:WI:363:MET:HE2	2.20	0.41
24:WJ:27:GLU:OE2	24:WJ:243:ARG:NH2	2.53	0.41
25:WK:205:GLU:HA	25:WK:208:TYR:HB2	2.02	0.41
24:WN:88:HIS:HB3	24:WN:91:GLN:HB2	2.01	0.41
24:WN:217:LEU:HG	24:WN:275:ILE:HG22	2.01	0.41
24:WN:237:SER:HA	24:WN:320:ARG:HD2	2.02	0.41
39:X3:287:ASN:N	39:X3:290:ASP:OD2	2.41	0.41
25:XA:396:HIS:HA	25:XA:399:THR:HG22	2.02	0.41
24:XB:76:ASP:HA	24:XB:79:ARG:HD2	2.02	0.41
24:XB:88:HIS:CE1	24:XB:90:GLU:HB2	2.54	0.41
25:XE:70:PRO:HG2	24:XF:2:ARG:HH11	1.86	0.41
25:XG:135:VAL:HG21	25:XG:152:ILE:HD11	2.01	0.41
24:XH:67:PHE:O	24:XH:93:ILE:N	2.52	0.41
25:XI:256:ASN:O	25:XI:312:THR:HG21	2.20	0.41
25:XM:67:ASP:N	25:XM:67:ASP:OD1	2.52	0.41
25:XO:194:GLU:OE2	25:XO:414:ASN:ND2	2.52	0.41
40:Y0:445:SER:N	40:Y1:446:GLU:OE2	2.53	0.41
40:Y1:50:VAL:HG12	40:Y1:68:VAL:HA	2.02	0.41
40:Y4:129:GLN:HA	40:Y4:132:ILE:HG22	2.01	0.41
40:Y5:62:PRO:HG2	40:Y5:105:GLY:HA2	2.01	0.41
40:Y5:394:ILE:O	40:Y5:397:SER:OG	2.31	0.41
40:Y6:19:VAL:HG11	40:Y6:39:LEU:HD13	2.02	0.41
24:YB:14:ILE:O	24:YB:18:ASN:N	2.47	0.41
24:YD:33:ASP:HA	24:YD:85:GLN:HB2	2.02	0.41
24:YF:223:THR:HG23	24:YF:225:THR:H	1.85	0.41
24:YF:259:LEU:HD11	24:YF:316:CYS:HB2	2.02	0.41
25:YG:313:ALA:HB1	25:YG:367:PHE:CE1	2.55	0.41
25:YG:377:MET:HG2	25:YG:380:ARG:NH2	2.35	0.41
24:YH:248:LEU:HB2	24:YH:355:ILE:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:YI:271:THR:O	25:YI:273:LEU:N	2.52	0.41
24:YL:186:ASN:OD1	24:YL:408:TYR:OH	2.30	0.41
24:YN:209:ILE:HG23	24:YN:230:LEU:HD11	2.02	0.41
24:YN:297:GLU:O	24:YN:300:SER:OG	2.38	0.41
41:Z3:185:ILE:HG13	41:Z3:223:PHE:HE2	1.86	0.41
24:ZB:124:LYS:HA	24:ZB:124:LYS:HD3	1.80	0.41
25:ZE:173:PRO:HB3	25:ZE:380:ARG:HD2	2.01	0.41
25:ZE:187:LEU:HD21	25:ZE:408:PHE:CE1	2.56	0.41
24:ZF:273:ALA:HB2	24:ZF:295:ALA:HB2	2.02	0.41
25:ZK:217:LEU:HD23	25:ZK:217:LEU:HA	1.90	0.41
2:1B:2296:LYS:O	2:1B:2299:THR:OG1	2.38	0.41
2:1D:1258:LEU:HD12	2:1D:1321:LEU:HD22	2.01	0.41
2:1D:1274:PHE:HB3	2:1D:1278:ARG:HH21	1.85	0.41
4:2A:359:LEU:HD23	4:2A:359:LEU:HA	1.91	0.41
13:7G:122:GLY:O	13:7G:138:TRP:N	2.53	0.41
15:9E:1693:ALA:HA	15:9E:1783:LEU:HA	2.02	0.41
17:B2:379:PHE:HD2	17:B2:380:LYS:HD3	1.84	0.41
18:C0:1578:GLU:HA	18:C0:1581:ASP:HB2	2.03	0.41
18:C1:388:LEU:HA	18:C1:391:ARG:HG2	2.02	0.41
18:C1:1606:GLY:HA2	18:C1:1609:ARG:HD3	2.02	0.41
18:C2:1073:LYS:HA	18:C2:1073:LYS:HD3	1.79	0.41
18:C3:1746:ALA:O	18:C3:1750:VAL:HG23	2.20	0.41
19:D5:85:LEU:HD21	19:D5:121:VAL:HG22	2.02	0.41
20:E1:161:PHE:HB2	24:UF:176:GLN:HE21	1.85	0.41
19:G3:96:ASN:O	19:G3:100:LYS:HG2	2.20	0.41
19:G4:344:LEU:HD22	19:G4:382:THR:HB	2.02	0.41
19:H0:402:ARG:HH21	19:H0:405:LYS:HD3	1.84	0.41
19:H2:252:ILE:HA	19:H2:255:LYS:HZ3	1.85	0.41
19:H4:22:THR:O	19:H4:26:GLU:HG2	2.20	0.41
19:H6:45:LEU:HD11	19:H7:13:TYR:CE2	2.56	0.41
19:H6:272:ALA:HB1	19:H6:312:PRO:HB2	2.02	0.41
19:H7:177:GLN:HE22	19:H7:213:TYR:HB2	1.85	0.41
19:J0:253:PHE:HD2	19:J0:292:ASN:HD22	1.67	0.41
19:J1:128:ASP:HA	19:J1:131:VAL:HG22	2.03	0.41
19:J2:379:CYS:O	19:J2:382:THR:OG1	2.28	0.41
19:K1:148:THR:O	19:K1:152:ILE:HG12	2.20	0.41
19:K2:100:LYS:HD2	19:K2:133:CYS:SG	2.61	0.41
19:K2:310:ARG:O	19:K2:314:ILE:HG12	2.20	0.41
19:L0:238:LYS:HE3	19:L0:238:LYS:HB2	1.76	0.41
19:L0:470:LYS:HB3	19:L0:503:GLU:HG2	2.01	0.41
19:L1:34:ILE:HD13	19:L1:71:TYR:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L1:79:VAL:HG13	19:L1:84:ILE:HD12	2.03	0.41
19:L2:170:PRO:HA	19:L2:173:VAL:HG22	2.01	0.41
19:L2:401:ARG:HH21	19:L2:404:LEU:HD11	1.85	0.41
19:L3:242:ASP:HA	19:L3:245:GLU:HG3	2.02	0.41
22:M1:98:PRO:O	25:UK:425:TYR:OH	2.37	0.41
24:NB:99:ALA:HA	24:NB:110:ILE:HD11	2.03	0.41
24:NH:231:ILE:O	24:NH:235:ILE:HG12	2.21	0.41
24:NH:267:PHE:HB2	24:NH:384:ILE:HG21	2.02	0.41
25:NI:50:TYR:CE2	25:NI:237:THR:HG21	2.55	0.41
25:NI:71:GLY:HA3	24:NJ:2:ARG:HH22	1.85	0.41
24:NJ:125:LEU:HD23	24:NJ:125:LEU:HA	1.93	0.41
25:NK:282:ARG:HH22	25:NK:289:LEU:HD23	1.85	0.41
24:NN:221:ARG:HH12	25:NO:322:SER:HB2	1.85	0.41
26:O1:714:SER:HA	26:O1:715:PRO:HA	1.96	0.41
25:OC:271:THR:O	25:OC:273:LEU:N	2.48	0.41
25:OE:114:ASP:N	25:OE:114:ASP:OD1	2.54	0.41
25:OE:313:ALA:HB1	25:OE:367:PHE:HE1	1.86	0.41
24:OF:77:GLU:HA	24:OF:80:THR:HG22	2.02	0.41
24:OF:288:VAL:HG13	24:OF:319:TYR:HE2	1.85	0.41
24:OH:152:LEU:HD12	24:OH:152:LEU:HA	1.91	0.41
25:OO:33:THR:O	25:OO:58:ARG:NE	2.51	0.41
24:OP:207:GLU:HA	24:OP:210:TYR:HB2	2.02	0.41
25:PE:19:LYS:HE3	25:PE:19:LYS:HB3	1.93	0.41
24:PL:409:VAL:HA	24:PL:413:MET:O	2.20	0.41
25:PM:312:THR:HA	25:PM:348:ASN:HB3	2.03	0.41
28:Q1:922:SER:HA	28:Q1:984:ILE:O	2.20	0.41
28:Q1:2295:ALA:HA	28:Q1:2298:ARG:HD3	2.02	0.41
25:QE:167:PHE:HA	25:QE:200:MET:HB2	2.03	0.41
25:QG:144:GLY:N	46:QG:501:GDP:O2B	2.47	0.41
24:QH:205:ASP:HB2	24:QH:303:VAL:HG23	2.02	0.41
25:QI:139:LEU:HD12	25:QI:170:VAL:HG12	2.02	0.41
24:QJ:189:LEU:HD11	24:QJ:418:PHE:HE1	1.85	0.41
24:QP:240:ALA:HA	24:QP:243:ARG:HE	1.85	0.41
29:R0:255:VAL:O	29:R0:259:GLN:HG2	2.20	0.41
25:RC:210:ILE:HD13	25:RC:298:ASN:HA	2.02	0.41
25:RE:236:ILE:HD12	25:RE:368:ILE:HD11	2.02	0.41
25:RI:25:SER:HB2	25:RI:30:ILE:HG13	2.01	0.41
24:RL:88:HIS:CE1	24:SL:280:LYS:HD2	2.54	0.41
25:SC:328:GLU:O	25:SC:332:ASN:ND2	2.53	0.41
25:SM:27:GLU:OE2	25:SM:241:ARG:NH1	2.45	0.41
25:SM:95:THR:OG1	25:SM:96:GLY:N	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:SN:180:ALA:HB3	24:SN:183:GLU:HG3	2.01	0.41
25:SO:135:VAL:HG11	25:SO:152:ILE:HD11	2.01	0.41
24:TD:271:SER:N	24:TD:377:MET:O	2.50	0.41
25:TE:216:LYS:HD3	25:TE:216:LYS:HA	1.88	0.41
25:TG:144:GLY:N	46:TG:502:GDP:O2B	2.53	0.41
25:TI:222:PHE:HD2	24:TJ:247:ALA:HB1	1.84	0.41
25:TK:226:ASN:HA	25:TK:229:ILE:HG22	2.02	0.41
25:TO:204:ASN:OD1	46:TO:501:GDP:O2'	2.35	0.41
33:U1:199:GLN:HG3	33:U1:203:LYS:NZ	2.35	0.41
25:UC:2:ARG:HB2	25:UC:131:GLN:HB2	2.01	0.41
25:UC:314:SER:HA	25:UC:350:LYS:HB3	2.01	0.41
25:UI:6:HIS:CE1	25:UI:134:GLN:HE21	2.38	0.41
25:UK:396:HIS:CG	24:UL:263:PRO:HD3	2.55	0.41
24:UN:269:LEU:HD23	24:UN:303:VAL:HB	2.01	0.41
25:VC:67:ASP:OD1	25:VC:67:ASP:N	2.53	0.41
24:VD:311:LYS:H	24:VD:382:THR:HG1	1.68	0.41
25:VE:222:PHE:HD1	25:VE:225:LEU:HD12	1.85	0.41
25:VI:272:PRO:HG3	25:VI:364:SER:HA	2.02	0.41
25:VI:290:THR:HG21	25:VI:329:GLN:HB3	2.02	0.41
24:VJ:324:VAL:HA	24:VJ:325:PRO:HD3	1.91	0.41
25:VK:376:GLU:OE2	25:VK:380:ARG:NH1	2.53	0.41
24:VN:232:ALA:HA	24:VN:235:ILE:HG22	2.02	0.41
24:VP:203:MET:HB3	24:VP:303:VAL:HG11	2.02	0.41
25:WC:203:ASP:OD1	25:WC:203:ASP:N	2.53	0.41
24:WF:17:GLY:HA2	24:WF:20:CYS:HB3	2.02	0.41
24:WH:286:LEU:HD13	24:WH:371:VAL:HG13	2.01	0.41
25:WI:385:PHE:HE2	25:WI:412:GLU:HB2	1.85	0.41
24:WJ:192:HIS:HD2	24:WJ:421:ALA:HA	1.85	0.41
39:X3:106:ARG:HH11	39:X3:130:LEU:HD23	1.86	0.41
24:XB:223:THR:OG1	24:XB:224:TYR:N	2.54	0.41
24:XD:9:ILE:HD11	24:XD:153:LEU:HD23	2.02	0.41
24:XD:425:LEU:O	24:XD:429:GLU:HG2	2.20	0.41
25:XE:20:PHE:HA	25:XE:230:SER:HB2	2.03	0.41
24:XF:164:LYS:HD3	24:XF:164:LYS:HA	1.89	0.41
24:XJ:402:ARG:HG3	24:XJ:405:VAL:HG21	2.01	0.41
25:XK:330:MET:HB3	25:XK:349:VAL:HG11	2.03	0.41
24:XN:120:ASP:O	24:XN:124:LYS:HG2	2.20	0.41
40:Y3:15:LYS:HA	40:Y3:18:GLU:HG3	2.03	0.41
40:Y3:354:GLU:HB3	40:Y3:356:ILE:HG23	2.01	0.41
40:Y3:416:ARG:HH11	40:Y3:417:SER:H	1.69	0.41
40:Y4:225:ARG:HG2	40:Y5:101:TYR:CE1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:Y6:84:SER:OG	40:Y6:416:ARG:NH2	2.53	0.41
24:YD:231:ILE:O	24:YD:235:ILE:HG12	2.19	0.41
24:YN:251:ASP:H	24:YN:254:GLU:HB2	1.85	0.41
24:ZB:222:PRO:O	25:ZC:322:SER:OG	2.25	0.41
24:ZD:297:GLU:HG2	24:ZD:298:PRO:HD2	2.02	0.41
25:ZE:211:CYS:HA	25:ZE:215:LEU:HB2	2.01	0.41
25:ZE:404:ASP:OD1	25:ZE:404:ASP:N	2.50	0.41
25:ZG:200:MET:HE1	25:ZG:368:ILE:HG23	2.01	0.41
24:ZH:251:ASP:O	24:ZH:254:GLU:HB2	2.21	0.41
25:ZI:219:THR:O	25:ZI:219:THR:OG1	2.37	0.41
25:ZK:137:HIS:CE1	25:ZK:168:SER:HB3	2.55	0.41
25:ZM:7:ILE:HD13	25:ZM:151:LEU:HD21	2.01	0.41
2:1A:79:ASN:OD1	2:1A:80:SER:N	2.54	0.41
2:1A:2135:ARG:HG2	2:1A:2291:PRO:HD2	2.02	0.41
2:1B:1254:GLN:HA	2:1B:1257:MET:HG2	2.02	0.41
2:1B:2085:SER:OG	2:1B:2086:GLY:N	2.53	0.41
2:1C:2056:ALA:O	2:1C:2095:TYR:HA	2.21	0.41
2:1D:1928:GLN:HE22	2:1D:1930:ALA:HB2	1.85	0.41
2:1D:2496:ARG:HH11	18:C3:1164:LEU:HD11	1.86	0.41
4:2B:293:VAL:HG23	4:2B:296:ALA:HA	2.01	0.41
13:7A:122:GLY:O	13:7A:138:TRP:N	2.53	0.41
13:7K:122:GLY:O	13:7K:138:TRP:N	2.53	0.41
14:8A:214:VAL:HG12	14:8A:216:GLY:H	1.85	0.41
15:9D:937:GLY:H	15:9D:957:PRO:HA	1.86	0.41
18:C0:771:PRO:HA	18:C0:776:GLN:HB3	2.02	0.41
18:C1:644:VAL:HG11	18:C1:649:VAL:HG13	2.03	0.41
18:C1:690:LEU:HD21	18:C1:715:LEU:HD23	2.02	0.41
18:C1:1253:LEU:HD23	18:C1:1256:LEU:HD21	2.02	0.41
18:C2:57:ILE:HD13	18:C2:157:ARG:HA	2.03	0.41
18:C2:442:GLU:HA	18:C2:445:LEU:HG	2.02	0.41
18:C3:952:ARG:HD3	18:C3:1037:ALA:HB2	2.02	0.41
18:C3:1452:GLU:OE2	18:C3:1456:GLN:NE2	2.53	0.41
18:C4:226:ASP:OD2	24:VB:402:ARG:NH1	2.54	0.41
18:C4:232:ALA:O	18:C4:235:LYS:HG3	2.19	0.41
19:D1:253:PHE:HA	19:D1:256:ILE:HD12	2.02	0.41
19:D3:202:ALA:HB2	19:D3:239:HIS:HD2	1.85	0.41
19:D7:371:ALA:HA	19:D7:374:VAL:HG12	2.03	0.41
20:E1:384:GLU:HA	20:E1:385:PRO:HD3	1.94	0.41
21:F1:38:LYS:HD3	21:F1:40:PRO:HD2	2.03	0.41
21:F3:91:PRO:HA	21:F3:92:PRO:HD2	1.97	0.41
19:G4:72:SER:OG	19:G4:74:ASP:OD1	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:G4:280:LYS:HA	19:G4:319:TYR:CE2	2.54	0.41
19:G5:270:HIS:O	19:G5:273:THR:OG1	2.30	0.41
19:G5:310:ARG:HG2	19:G5:314:ILE:HG12	2.01	0.41
19:H0:322:ALA:HB2	19:H0:362:GLN:HB3	2.02	0.41
19:H3:73:ASP:OD1	19:H3:74:ASP:N	2.54	0.41
19:H5:174:LEU:O	19:H5:177:GLN:N	2.53	0.41
19:I1:194:ILE:HG23	19:I1:201:LEU:HD13	2.02	0.41
19:K1:262:PHE:HA	19:K1:263:PRO:HD3	1.95	0.41
19:K3:278:VAL:HG13	19:K3:285:LEU:HD13	2.01	0.41
19:L2:253:PHE:HA	19:L2:256:ILE:HD12	2.02	0.41
19:L3:227:ARG:HG3	19:L3:267:VAL:HG13	2.01	0.41
22:M0:851:ASP:HA	22:M0:854:LYS:HG3	2.02	0.41
22:M1:947:LEU:O	22:M1:951:GLU:HG3	2.19	0.41
24:ND:137:VAL:HB	24:ND:168:GLY:HA2	2.02	0.41
24:NF:280:LYS:NZ	24:ZF:90:GLU:OE1	2.43	0.41
24:NH:76:ASP:OD2	25:NI:46:ARG:NH2	2.53	0.41
24:NH:306:ASP:HA	24:NH:307:PRO:HD3	1.88	0.41
24:NN:345:ASP:OD1	24:NN:345:ASP:N	2.53	0.41
26:O1:337:ARG:NH2	25:SI:423:GLN:OE1	2.47	0.41
26:O1:942:SER:HA	26:O1:943:PRO:HA	1.90	0.41
25:OC:207:LEU:HD22	25:OC:300:MET:HB3	2.03	0.41
25:OC:250:LEU:HD23	25:OC:250:LEU:HA	1.94	0.41
24:OH:147:SER:HB3	24:OH:190:SER:HB3	2.01	0.41
24:OH:210:TYR:CZ	24:OH:227:LEU:HD11	2.55	0.41
25:OI:406:MET:N	25:OI:406:MET:SD	2.94	0.41
24:ON:220:GLU:HB2	24:ON:221:ARG:HD3	2.03	0.41
25:OO:6:HIS:CE1	25:OO:8:GLN:HE22	2.39	0.41
24:OP:20:CYS:SG	24:OP:21:TRP:N	2.93	0.41
25:PC:21:TRP:HA	25:PC:24:VAL:HG12	2.02	0.41
24:PD:70:LEU:HA	24:PD:95:GLY:HA3	2.03	0.41
25:PE:210:ILE:O	25:PE:214:THR:OG1	2.27	0.41
24:PF:90:GLU:HB2	24:PF:121:ARG:HH22	1.85	0.41
24:PF:372:GLN:HE22	24:PF:373:ARG:NH1	2.18	0.41
24:PH:192:HIS:ND1	24:PH:424:ASP:OD2	2.41	0.41
25:PI:159:TYR:HB3	25:PI:162:ARG:HG3	2.03	0.41
24:PJ:175:PRO:HB3	24:PJ:390:ARG:NE	2.35	0.41
24:PL:189:LEU:HD11	24:PL:418:PHE:HE2	1.86	0.41
25:PM:403:MET:HB2	25:PM:407:GLU:OE2	2.21	0.41
24:PP:214:ARG:NH1	24:PP:215:ARG:HB2	2.35	0.41
28:Q1:2053:TRP:HE3	28:Q1:2057:LEU:HD12	1.85	0.41
28:Q1:3100:VAL:HA	28:Q1:3103:VAL:HG12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:QD:21:TRP:HA	24:QD:24:TYR:HB2	2.01	0.41
24:QF:278:ALA:HA	24:QF:369:ALA:HB2	2.01	0.41
24:QH:402:ARG:HB3	24:QH:405:VAL:HG21	2.02	0.41
24:QJ:7:ILE:HG12	24:QJ:137:VAL:HG12	2.02	0.41
25:QK:3:GLU:HA	25:QK:49:VAL:HA	2.01	0.41
24:QL:210:TYR:CD1	25:QM:324:LYS:HE3	2.56	0.41
24:QN:158:SER:OG	24:QN:166:LYS:NZ	2.54	0.41
25:QO:2:ARG:HB2	25:QO:131:GLN:HB2	2.02	0.41
25:QQ:173:PRO:HA	25:QQ:380:ARG:HH12	1.85	0.41
24:RD:238:LEU:HA	24:RD:318:MET:HG3	2.02	0.41
25:RG:190:HIS:HD2	25:RG:414:ASN:HB2	1.85	0.41
25:RG:325:GLU:OE1	25:RG:325:GLU:N	2.51	0.41
24:RH:186:ASN:OD1	24:RH:408:TYR:OH	2.28	0.41
25:RM:405:GLU:HA	25:RM:408:PHE:CD2	2.56	0.41
30:S1:111:VAL:O	24:VJ:47:ASP:N	2.54	0.41
30:S2:53:GLU:HA	30:S2:56:ALA:HB3	2.03	0.41
25:SE:113:ILE:HA	25:SE:116:VAL:HG22	2.01	0.41
24:SP:56:THR:HA	24:TP:285:GLN:NE2	2.35	0.41
25:TM:5:VAL:HG23	25:TM:130:LEU:HD11	2.02	0.41
24:TP:130:THR:OG1	24:TP:131:GLY:N	2.54	0.41
25:UG:6:HIS:CD2	25:UG:8:GLN:HE21	2.38	0.41
24:UH:231:ILE:O	24:UH:235:ILE:HG12	2.20	0.41
24:UJ:188:VAL:HG23	24:UJ:425:LEU:HG	2.02	0.41
24:VB:109:THR:HB	24:VB:110:ILE:HD12	2.01	0.41
24:VB:168:GLY:O	24:VB:202:VAL:N	2.49	0.41
25:VC:288:GLU:HA	25:VC:291:GLN:HE21	1.85	0.41
25:VC:330:MET:HB3	25:VC:349:VAL:HG11	2.01	0.41
24:VD:313:MET:HB2	24:VD:380:ASN:HB3	2.03	0.41
25:VE:355:ASP:OD1	25:VE:355:ASP:N	2.51	0.41
24:VF:213:CYS:HB3	24:VF:219:ILE:HD11	2.02	0.41
25:VI:86:ARG:HG2	25:VI:88:ASP:H	1.85	0.41
25:VM:65:LEU:HD12	25:VM:90:PHE:CE1	2.55	0.41
35:W0:1504:PRO:HA	35:W0:1580:LEU:HA	2.02	0.41
25:WC:67:ASP:OD1	25:WC:67:ASP:N	2.54	0.41
24:WF:31:GLN:OE1	24:WF:37:PRO:HD3	2.20	0.41
24:WJ:334:THR:HA	24:WJ:337:THR:HG22	2.02	0.41
25:WM:290:THR:HG21	25:WM:329:GLN:HB3	2.01	0.41
24:WN:309:HIS:ND1	24:WN:386:GLU:OE2	2.53	0.41
25:WO:122:LYS:NZ	25:XO:291:GLN:OE1	2.53	0.41
25:WO:257:LEU:HD23	25:WO:312:THR:HG22	2.03	0.41
39:X0:220:LEU:HD22	39:X0:242:LEU:HD11	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:X3:85:VAL:HG21	39:X3:111:LEU:HD11	2.02	0.41
25:XC:337:ASN:HB2	25:XC:340:TYR:HD1	1.86	0.41
25:XE:383:GLU:HA	25:XE:386:THR:HG22	2.02	0.41
25:XI:141:GLY:O	25:XI:145:SER:OG	2.31	0.41
25:XI:330:MET:HB3	25:XI:349:VAL:HG11	2.02	0.41
24:XN:28:HIS:HE2	24:XN:243:ARG:HD2	1.86	0.41
40:Y4:218:SER:N	40:Y4:222:GLU:OE2	2.42	0.41
40:Y7:97:ASP:N	40:Y7:97:ASP:OD1	2.48	0.41
24:YD:122:ILE:HG22	24:YD:161:TYR:HE2	1.85	0.41
25:YE:288:GLU:O	25:YE:291:GLN:HB3	2.21	0.41
24:YH:108:TYR:HA	24:YH:112:LYS:NZ	2.36	0.41
24:YJ:9:ILE:HG12	24:YJ:68:LEU:HD21	2.02	0.41
24:YN:258:ASN:OD1	24:YN:352:LYS:NZ	2.33	0.41
25:YO:204:ASN:OD1	46:YO:501:GDP:O2'	2.36	0.41
25:YO:239:CYS:SG	25:YO:354:CYS:HB2	2.60	0.41
24:YP:214:ARG:HA	24:YP:214:ARG:HD2	1.82	0.41
41:Z2:61:ALA:O	41:Z2:264:ARG:NH1	2.53	0.41
41:Z2:65:ARG:HH22	41:Z2:107:VAL:HA	1.86	0.41
25:ZE:101:TRP:CE3	25:ZE:187:LEU:HD23	2.56	0.41
25:ZK:156:ARG:HD2	25:ZK:160:PRO:HA	2.02	0.41
25:ZK:222:PHE:HE2	24:ZL:247:ALA:HB1	1.86	0.41
25:ZK:391:ARG:NH1	24:ZL:435:VAL:O	2.54	0.41
2:1A:1559:SER:HB3	2:1A:1963:LEU:HD23	2.02	0.41
2:1A:1838:ARG:HA	2:1A:1841:GLN:HG3	2.02	0.41
2:1B:1242:MET:HG3	2:1B:1322:LEU:HD22	2.01	0.41
2:1C:2166:LEU:HD12	2:1C:2242:VAL:HG21	2.02	0.41
2:1D:1952:GLN:HG2	2:1D:1966:LEU:HD11	2.02	0.41
4:2B:265:VAL:HG11	4:2B:272:LEU:HD11	2.02	0.41
14:8C:70:LEU:HD21	24:WH:1:MET:HG3	2.03	0.41
17:B2:323:LEU:HD13	24:RF:308:ARG:HD3	2.03	0.41
18:C0:562:HIS:ND1	18:C0:805:PRO:O	2.53	0.41
18:C0:580:PRO:HA	18:C0:581:PRO:HD3	1.86	0.41
18:C0:1335:PRO:HG2	18:C0:1337:LEU:HD21	2.02	0.41
18:C1:1671:GLU:H	18:C1:1748:LYS:NZ	2.17	0.41
18:C2:81:MET:HB2	18:C2:89:VAL:HG21	2.02	0.41
18:C3:580:PRO:HA	18:C3:581:PRO:HD3	1.97	0.41
20:E2:104:ILE:HG22	20:E2:109:ARG:HH21	1.86	0.41
20:E3:401:THR:OG1	24:UN:164:LYS:NZ	2.46	0.41
21:F1:106:GLU:HB3	21:F1:159:THR:HG22	2.01	0.41
19:G0:247:VAL:HG13	19:G0:252:ILE:HD11	2.02	0.41
19:G3:175:CYS:SG	19:G3:183:LEU:HD22	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:G3:401:ARG:HH21	19:G3:404:LEU:HD21	1.85	0.41
19:G4:59:GLN:NE2	19:G4:98:PHE:HB3	2.35	0.41
19:H2:108:ARG:HB2	19:H2:151:TYR:HD2	1.85	0.41
19:H2:253:PHE:CZ	19:H2:289:VAL:HG22	2.55	0.41
19:H3:395:ASP:OD1	19:H3:395:ASP:N	2.53	0.41
19:H5:34:ILE:HD12	19:H5:68:LEU:HD23	2.03	0.41
19:I1:262:PHE:HA	19:I1:263:PRO:HD3	1.92	0.41
19:I1:276:ARG:NH2	19:I1:312:PRO:HA	2.36	0.41
19:J1:4:ARG:HG2	24:QH:192:HIS:CE1	2.54	0.41
19:J1:273:THR:HG22	19:J1:276:ARG:HH12	1.85	0.41
19:K2:95:GLN:HB2	19:K2:99:TYR:HD2	1.85	0.41
19:L0:34:ILE:HG21	19:L0:71:TYR:HB3	2.02	0.41
19:L0:305:SER:OG	19:L0:306:ALA:N	2.53	0.41
19:L1:399:LYS:HA	19:L1:402:ARG:HG2	2.02	0.41
19:L1:429:VAL:HA	19:L1:432:MET:HE2	2.01	0.41
19:L2:369:ASP:OD1	19:L2:370:HIS:N	2.54	0.41
19:L2:448:ARG:O	19:L2:452:VAL:HG23	2.20	0.41
19:L3:122:ILE:HG12	19:L3:127:LEU:HD21	2.03	0.41
22:M0:963:ARG:HA	28:Q0:2652:GLU:OE1	2.20	0.41
24:NF:21:TRP:HA	24:NF:24:TYR:HD1	1.86	0.41
24:NF:65:CYS:SG	24:NF:66:ILE:N	2.94	0.41
24:NF:345:ASP:OD1	24:NF:345:ASP:N	2.54	0.41
24:NJ:430:LYS:HA	24:NJ:430:LYS:HD3	1.95	0.41
26:O1:154:LEU:HD21	26:O1:168:VAL:HG21	2.01	0.41
24:OD:288:VAL:HA	24:OD:291:ILE:HG12	2.03	0.41
25:OG:294:TRP:CD1	25:OG:333:VAL:HG21	2.54	0.41
24:OJ:215:ARG:CZ	24:OJ:299:ALA:HB1	2.51	0.41
25:OK:216:LYS:HD3	25:OK:216:LYS:HA	1.86	0.41
25:OO:86:ARG:HG2	25:PO:281:TYR:HB3	2.02	0.41
24:OP:210:TYR:HB3	25:OQ:324:LYS:NZ	2.35	0.41
24:OP:319:TYR:CE2	24:OP:375:VAL:HG22	2.55	0.41
25:PK:260:PHE:HB2	25:PK:263:LEU:HD12	2.02	0.41
24:PN:119:LEU:HD23	24:PN:119:LEU:HA	1.93	0.41
24:PP:224:TYR:HE2	25:PQ:246:LEU:HD21	1.85	0.41
28:Q0:1078:LEU:HD23	28:Q0:1078:LEU:HA	1.87	0.41
28:Q1:1830:LEU:HD23	28:Q1:1830:LEU:HA	1.88	0.41
28:Q1:2170:LEU:HD11	28:Q1:2599:VAL:HG12	2.02	0.41
24:QD:221:ARG:HA	25:QE:324:LYS:NZ	2.36	0.41
25:QE:317:PHE:HB3	25:QE:321:MET:HE1	2.02	0.41
25:QG:174:LYS:NZ	24:QH:329:ASN:O	2.54	0.41
24:QH:115:VAL:HG23	24:QH:153:LEU:HD23	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:QH:345:ASP:OD2	24:QH:346:TRP:N	2.53	0.41
24:QJ:3:GLU:OE1	24:QJ:130:THR:N	2.53	0.41
25:QO:237:THR:HG23	25:QO:241:ARG:HH11	1.84	0.41
29:R1:92:LEU:HG	29:R1:96:HIS:CE1	2.55	0.41
25:RC:148:GLY:O	25:RC:152:ILE:HG12	2.20	0.41
25:RC:416:ASN:HA	25:RC:419:VAL:HG22	2.02	0.41
25:RG:178:THR:OG1	25:RG:181:GLU:HG3	2.20	0.41
24:RH:164:LYS:HD3	24:RH:164:LYS:HA	1.82	0.41
25:RI:65:LEU:HD13	25:RI:90:PHE:CE1	2.56	0.41
25:RI:154:LYS:HB2	25:RI:154:LYS:HE2	1.86	0.41
25:RK:192:LEU:HD22	25:RK:196:ALA:HB2	2.02	0.41
25:RK:216:LYS:HG2	25:RK:275:SER:HB3	2.01	0.41
24:RL:85:GLN:O	24:SL:283:HIS:NE2	2.54	0.41
24:RL:322:ASP:OD2	24:RL:373:ARG:NH1	2.41	0.41
24:SB:222:PRO:O	25:SC:324:LYS:NZ	2.48	0.41
24:SF:267:PHE:HB2	24:SF:384:ILE:HD13	2.02	0.41
24:SF:306:ASP:HB3	24:SF:309:HIS:CD2	2.55	0.41
25:SG:336:LYS:HE3	25:SG:336:LYS:HB3	1.96	0.41
25:SM:44:LEU:HA	25:SM:47:ILE:HD11	2.02	0.41
24:SP:130:THR:OG1	24:SP:131:GLY:N	2.53	0.41
32:T2:383:ASP:OD1	32:T2:471:SER:OG	2.24	0.41
25:TG:253:LEU:HD21	25:TG:316:LEU:HD21	2.03	0.41
25:TI:380:ARG:O	25:TI:384:GLN:HG3	2.20	0.41
24:TJ:7:ILE:N	24:TJ:136:LEU:O	2.50	0.41
24:TJ:33:ASP:HA	24:TJ:85:GLN:HB2	2.02	0.41
25:TM:316:LEU:HB2	25:TM:366:THR:HG22	2.02	0.41
24:TN:265:ILE:HD11	24:TN:431:ASP:HB3	2.01	0.41
25:TO:207:LEU:HB3	25:TO:225:LEU:HD22	2.03	0.41
25:UC:67:ASP:N	25:UC:67:ASP:OD1	2.53	0.41
25:UG:149:THR:HA	25:UG:152:ILE:HG12	2.03	0.41
25:UK:238:CYS:SG	25:UK:239:CYS:N	2.94	0.41
24:UL:133:GLN:O	24:UL:165:SER:OG	2.38	0.41
24:UL:237:SER:HA	24:UL:320:ARG:HD2	2.01	0.41
24:UP:275:ILE:HG23	24:UP:368:LEU:HD21	2.03	0.41
25:VE:8:GLN:HE22	25:VE:63:ALA:HB1	1.85	0.41
24:VF:9:ILE:HG12	24:VF:68:LEU:HD21	2.02	0.41
25:VG:234:SER:O	25:VG:241:ARG:NH2	2.53	0.41
25:VK:114:ASP:OD1	25:VK:114:ASP:N	2.53	0.41
25:VO:4:ILE:HB	25:VO:50:TYR:HE1	1.85	0.41
25:VO:216:LYS:HE2	25:VO:216:LYS:HB2	1.91	0.41
24:VP:194:LEU:HD21	24:VP:201:ALA:HB2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:WB:125:LEU:HD23	24:WB:125:LEU:HA	1.95	0.41
25:WE:215:LEU:HD21	25:WE:273:LEU:HB3	2.02	0.41
25:WI:138:SER:HA	25:WI:169:VAL:HG22	2.02	0.41
25:WK:130:LEU:HB2	25:WK:162:ARG:HE	1.85	0.41
25:WM:68:LEU:HD12	25:WM:97:ALA:HB2	2.02	0.41
39:X3:408:ALA:HB1	39:X3:580:CYS:SG	2.60	0.41
24:XB:209:ILE:HG23	24:XB:230:LEU:HD11	2.01	0.41
24:XD:319:TYR:CZ	24:XD:328:VAL:HG23	2.55	0.41
25:XE:39:ASP:N	25:XE:39:ASP:OD1	2.49	0.41
24:XF:174:SER:HB3	24:XF:177:VAL:O	2.21	0.41
24:XF:205:ASP:HB3	24:XF:303:VAL:HA	2.02	0.41
25:XK:213:ARG:HH22	25:XK:297:LYS:HE3	1.85	0.41
24:XN:103:PHE:HB2	24:XN:186:ASN:ND2	2.35	0.41
24:XN:242:LEU:HD21	24:XN:252:ILE:HG12	2.03	0.41
25:XO:101:TRP:HE1	25:XO:188:SER:HB3	1.85	0.41
40:Y0:190:PRO:HG3	40:Y0:220:PHE:HE1	1.85	0.41
40:Y3:244:GLN:HE21	40:Y3:244:GLN:HB3	1.73	0.41
40:Y3:425:ILE:HA	40:Y3:428:LEU:HB3	2.02	0.41
40:Y5:186:ILE:HG12	40:Y5:433:ALA:HB1	2.01	0.41
24:YB:209:ILE:HD13	24:YB:231:ILE:HD11	2.02	0.41
25:YC:4:ILE:HB	25:YC:50:TYR:HE1	1.86	0.41
24:YD:88:HIS:N	24:YD:91:GLN:HE22	2.18	0.41
24:YD:275:ILE:HG23	24:YD:368:LEU:HD21	2.02	0.41
25:YG:156:ARG:HD3	25:YG:160:PRO:HA	2.02	0.41
24:YH:142:GLY:HA2	24:YH:183:GLU:HG2	2.03	0.41
25:YI:296:ALA:HB1	25:YI:305:PRO:HD2	2.03	0.41
24:YJ:311:LYS:H	24:YJ:382:THR:HG1	1.68	0.41
24:YP:101:ASN:HA	24:YP:144:GLY:H	1.86	0.41
41:Z0:54:ASP:N	41:Z0:54:ASP:OD1	2.54	0.41
41:Z0:527:GLU:HA	41:Z0:530:LYS:HG2	2.03	0.41
25:ZE:384:GLN:HG2	24:ZF:348:PRO:HG2	2.01	0.41
25:ZG:114:ASP:OD1	25:ZG:115:SER:N	2.53	0.41
25:ZG:239:CYS:SG	25:ZG:248:ALA:N	2.91	0.41
25:ZK:249:ASP:OD1	25:ZK:252:LYS:HG2	2.20	0.41
25:ZM:222:PHE:HD2	24:ZN:247:ALA:HB1	1.85	0.41
25:ZO:178:THR:HG22	24:ZP:352:LYS:NZ	2.36	0.41
25:ZO:234:SER:OG	25:ZO:241:ARG:NH2	2.50	0.41
2:1C:2146:ASN:HD21	2:1C:2150:THR:HB	1.85	0.41
2:1D:1335:LEU:HA	2:1D:1338:ARG:HG3	2.02	0.41
2:1D:2031:ARG:HB2	2:1D:2132:PRO:HG2	2.02	0.41
4:2A:371:ASP:OD1	4:2A:372:ALA:N	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:8A:53:THR:O	14:8A:58:ARG:NH2	2.53	0.41
14:8A:203:ARG:HE	24:RP:372:GLN:HE22	1.66	0.41
17:B1:713:GLN:HG2	17:B1:716:LYS:HE3	2.03	0.41
17:B2:252:PRO:HA	17:B2:253:PRO:HD3	1.92	0.41
17:B2:379:PHE:HD1	24:SF:342:GLN:HE21	1.68	0.41
18:C0:1633:PHE:HB3	18:C0:1634:PRO:HD3	2.02	0.41
18:C3:121:LEU:HD23	19:D3:87:GLN:HE22	1.85	0.41
18:C3:542:LEU:HD13	18:C3:1183:PHE:HB3	2.02	0.41
19:D2:257:LEU:HD13	19:D2:294:GLY:HA2	2.02	0.41
19:D3:398:THR:O	19:D3:402:ARG:HG2	2.19	0.41
19:D5:21:VAL:HG22	19:D5:49:LEU:HD13	2.02	0.41
19:D5:179:PRO:HA	19:D5:184:LYS:HE2	2.03	0.41
19:D7:89:VAL:HA	19:D7:92:LEU:HD12	2.02	0.41
19:D7:221:GLN:HA	19:D7:226:LYS:HE2	2.02	0.41
19:D7:338:PRO:HA	19:D7:341:VAL:HG12	2.01	0.41
20:E1:149:ARG:HB3	20:E1:153:GLY:HA2	2.02	0.41
20:E1:358:ALA:HB2	23:N3:55:ALA:HB2	2.03	0.41
19:G0:253:PHE:HZ	19:G0:275:VAL:HG23	1.85	0.41
19:G5:302:ILE:HG23	19:G5:310:ARG:HD3	2.03	0.41
19:H5:74:ASP:OD1	19:H5:74:ASP:N	2.52	0.41
19:I1:45:LEU:O	19:I1:49:LEU:HD23	2.21	0.41
19:I1:196:LYS:HA	19:I1:235:GLN:HG2	2.03	0.41
19:I1:241:VAL:HG12	19:I1:281:HIS:HB3	2.03	0.41
19:J0:243:LEU:HA	19:J0:246:VAL:HG22	2.03	0.41
19:L1:325:GLU:OE2	19:L1:370:HIS:NE2	2.43	0.41
22:M0:701:LEU:O	22:M0:703:PRO:HD3	2.21	0.41
22:M0:722:GLU:OE1	29:R0:50:LEU:HD22	2.20	0.41
22:M0:763:TYR:HB2	28:Q0:2190:ARG:HG3	2.01	0.41
22:M0:868:ALA:HA	22:M0:871:LEU:HB3	2.02	0.41
22:M1:78:ILE:HB	22:M1:121:ARG:HB2	2.01	0.41
22:M1:879:GLU:HB2	22:M1:925:ARG:NH1	2.35	0.41
23:N0:137:PHE:HA	23:N0:140:ARG:HD2	2.02	0.41
24:ND:203:MET:HB3	24:ND:303:VAL:HG21	2.01	0.41
25:NE:45:GLU:OE2	25:NE:46:ARG:NH1	2.53	0.41
25:NG:270:PHE:CE2	25:NG:272:PRO:HD2	2.56	0.41
24:NJ:262:TYR:HB2	24:NJ:265:ILE:HG12	2.02	0.41
24:NJ:311:LYS:H	24:NJ:382:THR:HG1	1.66	0.41
24:NN:206:ASN:OD1	44:NN:501:GTP:N2	2.48	0.41
24:NN:275:ILE:HG23	24:NN:368:LEU:HD21	2.02	0.41
25:NO:14:ASN:HD21	25:NO:67:ASP:HB3	1.86	0.41
26:O2:197:GLU:O	26:O2:201:ARG:HG2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:OD:101:ASN:OD1	25:OE:252:LYS:NZ	2.35	0.41
24:OH:202:VAL:HG22	24:OH:268:MET:HB2	2.02	0.41
24:OH:430:LYS:HE2	24:OH:430:LYS:HB3	1.82	0.41
24:OJ:317:LEU:HB3	24:OJ:319:TYR:HE1	1.84	0.41
24:ON:11:GLN:NE2	25:OO:247:ASN:OD1	2.53	0.41
24:ON:105:ARG:HA	24:ON:109:THR:HG22	2.01	0.41
24:PD:217:LEU:HD23	24:PD:217:LEU:HA	1.93	0.41
24:PL:16:VAL:HG22	24:PL:231:ILE:HG21	2.03	0.41
25:PM:19:LYS:HD3	25:PM:22:GLU:HG3	2.01	0.41
24:PN:245:ASP:OD1	24:PN:245:ASP:N	2.54	0.41
24:PP:76:ASP:HA	24:PP:79:ARG:HB2	2.03	0.41
28:Q1:144:GLN:HA	28:Q1:147:VAL:HG12	2.03	0.41
28:Q1:2000:ILE:HD13	28:Q1:2000:ILE:HA	1.95	0.41
25:QE:4:ILE:HD11	25:QE:240:LEU:HD13	2.01	0.41
25:QG:3:GLU:HB3	25:QG:130:LEU:HD13	2.03	0.41
25:QG:392:LYS:HB3	25:QG:395:LEU:HD13	2.03	0.41
25:QO:86:ARG:HG2	25:QO:88:ASP:H	1.85	0.41
25:QO:182:PRO:HB3	25:QO:384:GLN:HB3	2.03	0.41
25:QQ:284:LEU:HD22	25:QQ:362:LYS:NZ	2.35	0.41
29:R1:92:LEU:HG	29:R1:96:HIS:HE1	1.86	0.41
25:RE:68:LEU:HD12	25:RE:97:ALA:HB2	2.02	0.41
24:RF:60:LYS:NZ	24:SF:283:HIS:HA	2.34	0.41
25:RG:125:GLU:OE2	25:SG:291:GLN:NE2	2.53	0.41
25:RG:139:LEU:HD12	25:RG:170:VAL:HG12	2.03	0.41
24:RH:133:GLN:HG2	24:RH:252:ILE:HB	2.01	0.41
24:RH:171:VAL:HA	24:RH:204:LEU:HB2	2.01	0.41
25:RI:216:LYS:HB2	25:RI:275:SER:HB3	2.03	0.41
24:RJ:25:CYS:HA	24:RJ:30:ILE:HG22	2.03	0.41
24:RJ:406:HIS:HA	24:RJ:409:VAL:HG12	2.02	0.41
25:RK:235:GLY:HA3	25:RK:366:THR:HG21	2.02	0.41
25:RM:149:THR:HB	25:RM:191:GLN:HG2	2.01	0.41
25:RO:407:GLU:HA	25:RO:410:GLU:HB3	2.03	0.41
24:RP:189:LEU:HD11	24:RP:418:PHE:HE1	1.84	0.41
25:SC:318:ARG:HE	25:SC:358:PRO:HD3	1.86	0.41
25:SG:190:HIS:HE1	25:SG:410:GLU:HG3	1.84	0.41
25:SG:208:TYR:OH	24:SH:325:PRO:O	2.27	0.41
25:SG:213:ARG:HD3	25:SG:297:LYS:HZ3	1.85	0.41
25:SG:311:LEU:H	25:SG:371:SER:HA	1.85	0.41
24:SH:1:MET:N	24:SH:130:THR:HG1	2.17	0.41
25:SI:316:LEU:HD23	25:SI:352:SER:HB2	2.01	0.41
24:SL:101:ASN:ND2	24:SL:143:GLY:HA2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:SL:332:VAL:HG22	24:SL:351:PHE:HD1	1.85	0.41
25:SM:5:VAL:HB	25:SM:133:PHE:HD1	1.84	0.41
24:SN:1:MET:N	24:SN:130:THR:OG1	2.39	0.41
24:TD:66:ILE:HD12	24:TD:68:LEU:HD22	2.03	0.41
24:TF:133:GLN:O	24:TF:165:SER:OG	2.37	0.41
25:TI:22:GLU:HG2	25:TI:81:TYR:HD1	1.86	0.41
25:TM:272:PRO:HG3	25:TM:364:SER:HA	2.03	0.41
33:U1:17:GLU:N	33:U1:17:GLU:OE1	2.54	0.41
24:UD:215:ARG:NH1	24:UD:299:ALA:HB1	2.35	0.41
25:UE:40:SER:HB2	25:UE:43:GLN:HG3	2.01	0.41
25:UI:68:LEU:HD12	25:UI:97:ALA:HB2	2.03	0.41
25:UM:257:LEU:HB3	25:UM:266:PHE:HE1	1.84	0.41
24:UN:265:ILE:HG22	24:UN:380:ASN:HD21	1.85	0.41
24:UN:269:LEU:HG	24:UN:384:ILE:HD11	2.03	0.41
25:UO:238:CYS:SG	25:UO:239:CYS:N	2.94	0.41
24:UP:130:THR:OG1	24:UP:131:GLY:N	2.53	0.41
25:VG:63:ALA:O	25:VG:89:ASN:ND2	2.53	0.41
24:VL:186:ASN:OD1	24:VL:408:TYR:OH	2.25	0.41
24:VN:245:ASP:OD2	24:VN:246:GLY:N	2.53	0.41
24:VN:425:LEU:O	24:VN:429:GLU:HG2	2.21	0.41
25:VO:257:LEU:HB3	25:VO:266:PHE:CE1	2.55	0.41
25:WC:6:HIS:NE2	25:WC:136:CYS:SG	2.84	0.41
25:WC:174:LYS:HA	25:WC:174:LYS:HD2	1.90	0.41
25:WG:42:LEU:HD23	25:WG:42:LEU:HA	1.91	0.41
25:WI:208:TYR:O	24:WJ:326:LYS:NZ	2.53	0.41
24:WL:9:ILE:HG13	24:WL:68:LEU:HD21	2.03	0.41
25:WM:39:ASP:OD2	25:WM:40:SER:N	2.53	0.41
25:WO:416:ASN:HA	25:WO:419:VAL:HG22	2.03	0.41
39:X3:674:ALA:HA	39:X3:677:ALA:HB3	2.01	0.41
25:XA:68:LEU:HD12	25:XA:97:ALA:HB2	2.03	0.41
25:XE:203:ASP:OD1	25:XE:203:ASP:N	2.53	0.41
24:XF:222:PRO:O	25:XG:322:SER:OG	2.37	0.41
24:XF:317:LEU:N	24:XF:352:LYS:O	2.53	0.41
24:XJ:406:HIS:CD2	25:XK:261:PRO:HG3	2.56	0.41
25:XK:198:GLU:HB2	25:XK:266:PHE:HE2	1.85	0.41
25:XM:222:PHE:HB2	24:XN:325:PRO:HG2	2.03	0.41
24:XN:425:LEU:HD13	24:XN:428:LEU:HD13	2.01	0.41
40:Y1:44:PRO:HA	40:Y1:45:PRO:HD3	1.77	0.41
40:Y4:76:ARG:HH22	40:Y5:456:ARG:NH2	2.18	0.41
40:Y4:77:ALA:HB1	40:Y4:158:MET:HB2	2.01	0.41
40:Y5:439:THR:HB	40:Y5:451:TYR:CE1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:Y6:413:THR:HG21	40:Y6:429:ALA:HB2	2.02	0.41
25:YC:113:ILE:HG13	25:YC:150:LEU:HD23	2.03	0.41
24:YD:137:VAL:HG23	24:YD:168:GLY:HA2	2.02	0.41
24:YH:66:ILE:HD12	24:YH:68:LEU:HD22	2.03	0.41
24:YN:271:SER:OG	24:YN:301:MET:SD	2.78	0.41
25:YO:6:HIS:HD2	25:YO:21:TRP:NE1	2.18	0.41
24:YP:232:ALA:HA	24:YP:235:ILE:HB	2.02	0.41
41:Z1:94:GLN:HB2	41:Z1:96:ARG:NH1	2.35	0.41
41:Z1:518:LYS:O	41:Z1:521:ILE:HG12	2.19	0.41
41:Z3:104:GLU:HB3	41:Z3:117:LYS:NZ	2.35	0.41
25:ZC:263:LEU:HG	25:ZC:422:TYR:HE1	1.84	0.41
25:ZE:216:LYS:HB2	25:ZE:275:SER:HB3	2.02	0.41
24:ZF:401:LYS:HE3	25:ZG:344:TRP:CE3	2.56	0.41
25:ZM:68:LEU:HD12	25:ZM:97:ALA:HB2	2.02	0.41
2:1A:1334:GLU:HG2	2:1A:1337:ARG:NH1	2.36	0.41
2:1A:2031:ARG:HA	2:1A:2091:LEU:O	2.20	0.41
2:1A:2140:VAL:HG13	2:1A:2286:ARG:HG2	2.03	0.41
2:1B:60:PRO:HA	2:1B:61:PRO:HD3	1.96	0.41
2:1C:1717:LEU:HA	2:1C:1720:VAL:HG12	2.02	0.41
2:1C:2012:VAL:O	2:1C:2111:THR:HA	2.20	0.41
2:1D:2166:LEU:O	2:1D:2241:LEU:HA	2.21	0.41
4:2A:318:VAL:HG12	24:OP:402:ARG:HG3	2.02	0.41
12:6A:55:PRO:HA	12:6A:282:VAL:O	2.21	0.41
13:7H:99:GLY:N	13:7H:115:TRP:O	2.52	0.41
14:8C:33:ARG:HH21	14:8C:39:ALA:HA	1.85	0.41
14:8D:41:ARG:HB3	24:XD:2:ARG:HH22	1.86	0.41
15:9E:766:HIS:O	15:9E:770:ILE:N	2.48	0.41
18:C0:1620:ASP:OD1	18:C0:1824:ARG:NH2	2.53	0.41
18:C2:581:PRO:HA	18:C2:582:PRO:HD3	1.92	0.41
18:C2:1925:VAL:O	18:C2:1928:ARG:HG2	2.20	0.41
18:C3:1606:GLY:HA2	18:C3:1609:ARG:HD3	2.03	0.41
19:D0:142:LYS:HE3	19:D0:178:GLU:HG3	2.02	0.41
19:D0:149:LEU:HD23	19:D0:149:LEU:HA	1.82	0.41
19:D3:214:LEU:HA	19:D3:217:LEU:HD12	2.02	0.41
20:E0:366:LYS:HE3	25:VK:295:ASP:HB2	2.03	0.41
21:F3:83:ASP:OD1	21:F3:84:GLU:N	2.53	0.41
19:G0:277:GLU:HA	19:G0:280:LYS:HE2	2.03	0.41
19:G3:79:VAL:HA	19:G3:84:ILE:HD12	2.02	0.41
19:H1:29:LYS:HG2	19:H1:67:ARG:HH12	1.86	0.41
19:H4:238:LYS:HB3	19:H4:277:GLU:HG3	2.03	0.41
19:H5:43:MET:SD	19:H5:43:MET:N	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:H6:44:ALA:HB3	19:H7:53:ASN:HD21	1.86	0.41
19:H7:329:LEU:HD13	19:H7:332:ILE:HD11	2.03	0.41
19:I0:121:VAL:O	19:I0:124:SER:OG	2.37	0.41
19:I1:396:LEU:HA	19:I1:399:LYS:HG2	2.02	0.41
19:J1:369:ASP:OD1	19:J1:370:HIS:N	2.54	0.41
19:J3:185:ARG:O	19:J3:228:GLN:HG2	2.21	0.41
19:J3:311:LEU:HB3	19:J3:352:LEU:HD21	2.03	0.41
19:L1:158:GLU:HA	19:L1:161:GLN:HE21	1.85	0.41
19:L3:197:HIS:HB2	19:L3:201:LEU:HD12	2.01	0.41
22:M0:958:ASN:ND2	22:M0:969:LEU:O	2.45	0.41
23:N1:106:ASP:OD1	23:N1:107:SER:N	2.53	0.41
24:NN:207:GLU:HA	24:NN:210:TYR:CD1	2.56	0.41
25:NO:20:PHE:HA	25:NO:230:SER:HB2	2.02	0.41
25:NO:122:LYS:HB2	25:NO:122:LYS:HE3	1.71	0.41
26:O1:408:ALA:O	26:O1:412:ARG:HG2	2.20	0.41
24:OL:291:ILE:O	24:OL:295:ALA:N	2.53	0.41
25:OM:247:ASN:OD1	25:OM:248:ALA:N	2.53	0.41
24:ON:370:LYS:HE2	24:ON:370:LYS:HB2	1.84	0.41
25:OO:125:GLU:OE2	25:OO:125:GLU:N	2.54	0.41
25:OO:178:THR:HG22	24:OP:352:LYS:NZ	2.35	0.41
25:OQ:27:GLU:OE2	25:OQ:318:ARG:NH2	2.44	0.41
24:PF:123:ARG:NH1	37:W9:121:UNK:O	2.54	0.41
25:PK:204:ASN:OD1	46:PK:501:GDP:O2'	2.36	0.41
24:PL:51:THR:HG23	24:PL:52:PHE:HD1	1.86	0.41
24:PL:70:LEU:HA	24:PL:95:GLY:HA3	2.01	0.41
24:PL:195:LEU:HD21	24:PL:428:LEU:HD22	2.02	0.41
25:PO:20:PHE:HA	25:PO:230:SER:HB2	2.03	0.41
24:PP:239:THR:O	24:PP:243:ARG:NH1	2.54	0.41
28:Q1:25:LEU:HA	28:Q1:26:PRO:HD3	1.90	0.41
25:QC:205:GLU:HA	25:QC:208:TYR:HB2	2.02	0.41
25:QG:1:MET:SD	25:QG:1:MET:N	2.81	0.41
25:QI:165:LEU:HD23	25:QI:165:LEU:HA	1.96	0.41
25:QI:320:ARG:HD3	25:QI:320:ARG:HA	1.88	0.41
25:QK:14:ASN:O	25:QK:18:ALA:N	2.46	0.41
24:RF:116:ASP:OD1	24:RF:116:ASP:N	2.54	0.41
25:RI:128:ASP:OD1	25:RI:128:ASP:N	2.52	0.41
24:RJ:406:HIS:CG	25:RK:261:PRO:HG3	2.55	0.41
24:RL:408:TYR:HD2	24:RL:413:MET:HE3	1.86	0.41
25:RM:405:GLU:HA	25:RM:408:PHE:HD2	1.84	0.41
30:S3:117:ASP:HB2	30:S3:120:ALA:HB2	2.03	0.41
25:SE:171:PRO:HB3	25:SE:181:GLU:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:SF:16:VAL:HA	24:SF:228:ASN:HB3	2.03	0.41
24:SJ:157:LEU:HD23	24:SJ:157:LEU:HA	1.92	0.41
25:SK:155:ILE:HG23	25:SK:164:MET:HE1	2.03	0.41
24:TB:100:ALA:N	44:TB:501:GTP:O2G	2.50	0.41
24:TB:291:ILE:HD12	24:TB:375:VAL:HG23	2.03	0.41
25:TC:207:LEU:HA	25:TC:210:ILE:HG22	2.01	0.41
24:TD:79:ARG:HH22	24:TD:94:SER:HB2	1.86	0.41
24:TD:319:TYR:CZ	24:TD:328:VAL:HG23	2.56	0.41
25:TE:313:ALA:HA	25:TE:369:GLY:HA2	2.03	0.41
25:TE:318:ARG:HB2	25:TE:364:SER:HB3	2.03	0.41
24:TF:25:CYS:O	24:TF:30:ILE:N	2.53	0.41
24:TF:337:THR:HA	24:TF:339:ARG:HH22	1.85	0.41
24:TF:387:ILE:HG23	24:TF:390:ARG:NH2	2.36	0.41
25:TG:8:GLN:HB2	25:TG:65:LEU:HD23	2.01	0.41
24:TH:223:THR:HG22	25:TI:322:SER:HA	2.03	0.41
25:TI:117:LEU:HD11	25:TI:154:LYS:HB3	2.02	0.41
24:TJ:250:VAL:HG11	24:TJ:352:LYS:HD2	2.00	0.41
24:TJ:319:TYR:HD2	24:TJ:323:VAL:HG21	1.85	0.41
25:TM:139:LEU:HG	25:TM:168:SER:HB2	2.03	0.41
25:TO:396:HIS:HA	25:TO:399:THR:HG22	2.03	0.41
24:UD:345:ASP:OD2	24:UD:346:TRP:N	2.54	0.41
24:UF:28:HIS:ND1	24:UF:43:GLY:O	2.50	0.41
25:UG:195:ASN:OD1	25:UG:196:ALA:N	2.54	0.41
25:UI:310:TYR:HD2	25:UI:341:PHE:HE1	1.67	0.41
25:UK:337:ASN:HB2	25:UK:340:TYR:HD2	1.86	0.41
24:UN:210:TYR:CE1	24:UN:227:LEU:HD21	2.56	0.41
24:UP:209:ILE:HG23	24:UP:230:LEU:HD11	2.02	0.41
24:VB:304:LYS:HD2	24:VB:304:LYS:HA	1.95	0.41
25:VC:2:ARG:HB3	25:VC:131:GLN:HB2	2.02	0.41
24:VH:9:ILE:HG12	24:VH:68:LEU:HD21	2.03	0.41
24:VH:21:TRP:CZ3	24:VH:52:PHE:HB3	2.56	0.41
24:VH:53:PHE:HB3	24:VH:61:HIS:HB3	2.03	0.41
24:VJ:88:HIS:CE1	24:VJ:90:GLU:HG2	2.56	0.41
24:VN:8:HIS:HA	24:VN:138:PHE:HB2	2.02	0.41
25:VO:192:LEU:HD21	25:VO:199:CYS:HB2	2.02	0.41
24:WB:88:HIS:CD2	24:WB:90:GLU:HG3	2.56	0.41
25:WC:52:ASN:OD1	25:WC:62:ARG:NH2	2.54	0.41
24:WD:124:LYS:HA	24:WD:124:LYS:HD3	1.87	0.41
25:WE:192:LEU:HD22	25:WE:196:ALA:HB2	2.00	0.41
25:WG:131:GLN:O	25:WG:163:MET:HB2	2.20	0.41
24:WL:122:ILE:HD13	24:WL:122:ILE:HA	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:WN:76:ASP:HA	24:WN:79:ARG:HB2	2.02	0.41
39:X0:514:LEU:HG	39:X0:565:TRP:HE1	1.85	0.41
39:X0:622:ASP:OD2	39:X0:646:TYR:OH	2.22	0.41
39:X2:607:HIS:HD2	39:X2:609:TRP:HE3	1.68	0.41
25:XC:48:ASN:N	25:XC:48:ASN:OD1	2.54	0.41
25:XC:86:ARG:HA	25:XC:87:PRO:HD3	1.85	0.41
24:XF:397:LEU:HD23	25:XG:346:PRO:HD3	2.03	0.41
25:XG:139:LEU:HD12	25:XG:170:VAL:HG12	2.02	0.41
25:XI:232:VAL:O	25:XI:236:ILE:HG12	2.21	0.41
25:XI:336:LYS:HD2	25:XI:336:LYS:HA	1.89	0.41
24:XJ:210:TYR:CD2	25:XK:324:LYS:HE2	2.55	0.41
25:XK:272:PRO:HG3	25:XK:364:SER:HA	2.02	0.41
25:XO:253:LEU:HD21	25:XO:316:LEU:HD21	2.03	0.41
40:Y2:187:LEU:HB2	40:Y2:467:TYR:HA	2.02	0.41
25:YC:11:GLN:N	46:YC:501:GDP:O2B	2.38	0.41
25:YG:235:GLY:HA3	25:YG:366:THR:HG21	2.03	0.41
24:YJ:9:ILE:HB	24:YJ:139:ASN:HB3	2.02	0.41
25:YK:68:LEU:HD12	25:YK:97:ALA:HB2	2.02	0.41
25:YO:232:VAL:O	25:YO:236:ILE:HG12	2.20	0.41
24:ZB:340:THR:HG23	24:ZB:341:ILE:HD12	2.02	0.41
24:ZB:356:ASN:OD1	24:ZB:357:TYR:N	2.53	0.41
24:ZD:51:THR:HG21	24:ZD:243:ARG:HA	2.01	0.41
24:ZF:66:ILE:HD12	24:ZF:68:LEU:HD22	2.02	0.41
25:ZG:155:ILE:HD12	25:ZG:155:ILE:HA	1.95	0.41
24:ZH:206:ASN:N	24:ZH:206:ASN:ND2	2.68	0.41
24:ZJ:182:VAL:HG22	25:ZK:256:ASN:ND2	2.35	0.41
24:ZL:88:HIS:O	24:ZL:91:GLN:HG2	2.21	0.41
25:ZM:20:PHE:HA	25:ZM:230:SER:HB2	2.02	0.41
25:ZM:44:LEU:HA	25:ZM:47:ILE:HD11	2.03	0.41
25:ZM:176:SER:OG	25:ZM:178:THR:O	2.38	0.41
24:ZN:244:PHE:HB2	24:ZN:356:ASN:HD21	1.85	0.41
24:ZN:287:SER:O	24:ZN:291:ILE:HG12	2.21	0.41
25:ZO:165:LEU:HD11	25:ZO:250:LEU:HD23	2.03	0.41
2:1B:2193:THR:HG22	2:1B:2240:ALA:HB3	2.02	0.41
2:1D:2010:HIS:HB2	2:1D:2113:THR:HA	2.03	0.41
4:2A:297:GLU:OE1	4:2A:299:THR:OG1	2.37	0.41
8:3C:168:HIS:O	24:NF:264:ARG:NH2	2.40	0.41
14:8C:70:LEU:HB2	25:WG:74:ASP:OD2	2.21	0.41
15:9D:1074:GLN:HA	15:9D:1084:ARG:HA	2.02	0.41
16:A3:82:PRO:HG3	24:XD:130:THR:HB	2.03	0.41
18:C1:1632:SER:OG	18:C1:1633:PHE:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:C1:1797:SER:HB3	18:C1:1800:ALA:HB2	2.02	0.41
18:C2:1782:PHE:O	18:C2:1786:LYS:HG3	2.20	0.41
18:C4:28:GLY:HA2	18:C4:31:PHE:HD2	1.86	0.41
18:C4:216:ARG:HH22	25:VC:190:HIS:HE1	1.67	0.41
19:D3:23:ALA:O	19:D3:27:MET:HG3	2.21	0.41
19:D3:90:TYR:O	19:D3:93:SER:OG	2.38	0.41
19:D3:275:VAL:HG12	19:D3:316:ALA:HB1	2.02	0.41
19:D5:265:GLU:OE1	19:D5:269:LYS:NZ	2.51	0.41
20:E0:388:VAL:HG21	24:VJ:215:ARG:HH12	1.86	0.41
20:E2:86:PHE:O	20:E2:90:ASP:HB2	2.20	0.41
21:F0:472:VAL:HA	21:F0:560:GLN:O	2.21	0.41
19:G2:76:ALA:HA	19:G2:79:VAL:HG22	2.03	0.41
19:G2:369:ASP:OD1	19:G2:370:HIS:N	2.53	0.41
19:G3:108:ARG:HD2	19:G3:151:TYR:CE2	2.56	0.41
19:G4:256:ILE:HG23	19:G4:271:SER:HB3	2.02	0.41
19:H0:275:VAL:HG11	19:H0:298:LEU:HD21	2.02	0.41
19:H3:37:LEU:HD12	19:H3:42:ALA:HB2	2.01	0.41
19:H5:100:LYS:HE2	19:H5:141:VAL:HG21	2.03	0.41
19:H5:118:ALA:O	19:H5:122:ILE:HG12	2.20	0.41
19:H5:401:ARG:HH12	19:H5:402:ARG:CZ	2.34	0.41
19:H6:161:GLN:HA	19:H6:164:VAL:HG12	2.03	0.41
19:H6:287:GLN:HA	19:H6:290:VAL:HG12	2.02	0.41
19:H7:352:LEU:HA	19:H7:352:LEU:HD23	1.84	0.41
19:I1:18:VAL:HB	19:I1:57:ILE:HD11	2.03	0.41
19:J1:265:GLU:HA	19:J1:268:LYS:HE2	2.03	0.41
19:J1:269:LYS:O	19:J1:273:THR:HG23	2.21	0.41
19:J1:406:SER:O	19:J1:421:VAL:N	2.53	0.41
19:J3:31:PRO:HB3	19:J3:71:TYR:CZ	2.56	0.41
19:J3:191:LEU:HD22	19:J3:205:VAL:HG13	2.02	0.41
19:K3:8:GLN:HA	19:K3:11:GLU:HG3	2.03	0.41
19:K3:119:GLN:HA	19:K3:122:ILE:HG22	2.02	0.41
19:L1:54:VAL:HB	19:L1:57:ILE:HG12	2.03	0.41
19:L2:15:LYS:HE3	19:L2:15:LYS:HB3	1.86	0.41
19:L2:328:ALA:O	19:L2:332:ILE:HG12	2.21	0.41
19:L3:242:ASP:OD1	19:L3:243:LEU:N	2.54	0.41
22:M1:331:ALA:HB2	25:TI:264:HIS:CD2	2.56	0.41
25:NG:83:GLN:OE1	25:OI:281:TYR:OH	2.38	0.41
24:NL:88:HIS:CE1	24:NL:90:GLU:HB2	2.55	0.41
24:NL:180:ALA:HB3	24:NL:183:GLU:HG2	2.02	0.41
25:NM:404:ASP:OD2	25:NM:405:GLU:N	2.53	0.41
24:NN:172:TYR:HA	24:NN:173:PRO:HD3	1.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:OF:271:SER:HB2	24:OF:377:MET:HB3	2.02	0.41
25:OG:237:THR:O	25:OG:241:ARG:NH1	2.54	0.41
24:OH:75:VAL:HG11	24:OH:94:SER:HB3	2.02	0.41
24:OL:101:ASN:HD22	24:OL:144:GLY:H	1.68	0.41
24:OL:311:LYS:H	24:OL:382:THR:HG1	1.67	0.41
24:ON:174:SER:HB3	24:ON:177:VAL:O	2.20	0.41
24:OP:149:LEU:HG	24:OP:153:LEU:HD23	2.03	0.41
25:PG:375:GLN:NE2	25:PG:419:VAL:HB	2.36	0.41
24:PL:51:THR:HG21	24:PL:243:ARG:HG2	2.03	0.41
25:PM:211:CYS:HB3	25:PM:220:PRO:HG2	2.03	0.41
24:PP:141:VAL:HG22	24:PP:187:SER:HA	2.03	0.41
25:PQ:52:ASN:CG	25:PQ:62:ARG:HH12	2.23	0.41
25:PQ:198:GLU:HA	25:PQ:264:HIS:HB2	2.02	0.41
28:Q0:1608:HIS:HD2	28:Q0:1747:ALA:HB2	1.86	0.41
28:Q0:2447:SER:HB2	28:Q0:2505:TYR:O	2.20	0.41
28:Q1:157:MET:O	28:Q1:161:LEU:HG	2.20	0.41
28:Q1:2835:ARG:NH2	28:Q1:3203:GLU:O	2.36	0.41
28:Q1:2964:LEU:HB2	28:Q1:2991:LEU:HD22	2.02	0.41
28:Q1:3061:ASP:N	28:Q1:3061:ASP:OD1	2.50	0.41
25:QI:86:ARG:HB3	25:QI:89:ASN:ND2	2.36	0.41
25:QK:63:ALA:O	25:QK:89:ASN:ND2	2.47	0.41
25:QO:172:SER:O	25:QO:380:ARG:NH2	2.54	0.41
25:QO:391:ARG:HA	25:QO:391:ARG:HD3	1.83	0.41
25:QQ:198:GLU:HA	25:QQ:264:HIS:HB2	2.03	0.41
25:QQ:242:PHE:HB3	25:QQ:356:ILE:HD13	2.02	0.41
24:RD:310:GLY:HA3	24:RD:383:ALA:HB2	2.02	0.41
25:RE:409:THR:HA	25:RE:412:GLU:HG3	2.02	0.41
25:RG:232:VAL:HG21	25:RG:300:MET:SD	2.60	0.41
25:RG:274:THR:OG1	25:RG:278:SER:OG	2.38	0.41
24:RL:3:GLU:HA	24:RL:51:THR:HA	2.01	0.41
25:RM:68:LEU:HB2	25:RM:143:THR:HG23	2.02	0.41
24:SB:51:THR:HG21	24:SB:243:ARG:HA	2.03	0.41
25:SC:183:TYR:OH	25:SC:393:ALA:O	2.29	0.41
24:SH:207:GLU:HG2	24:SH:304:LYS:HG3	2.03	0.41
24:SL:130:THR:OG1	24:SL:131:GLY:N	2.53	0.41
25:SM:85:PHE:HB2	25:SM:90:PHE:HE1	1.86	0.41
24:SN:71:GLU:HG2	25:SO:247:ASN:HD21	1.86	0.41
24:SN:157:LEU:HB3	24:SN:166:LYS:NZ	2.36	0.41
24:SP:6:SER:HB2	24:SP:138:PHE:HE1	1.86	0.41
32:T0:390:ALA:O	32:T0:436:ARG:HA	2.21	0.41
32:T0:391:ASP:OD1	32:T0:436:ARG:NH1	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:T2:187:THR:HA	32:T2:197:LYS:HA	2.02	0.41
32:T2:455:SER:OG	32:T2:456:GLU:N	2.54	0.41
25:TE:130:LEU:O	25:TE:162:ARG:NH1	2.51	0.41
25:TE:204:ASN:OD1	46:TE:501:GDP:O2'	2.38	0.41
24:TF:155:GLU:HG2	24:TF:197:HIS:CE1	2.56	0.41
25:TG:249:ASP:H	25:TG:252:LYS:HG2	1.85	0.41
24:TH:109:THR:OG1	24:TH:110:ILE:N	2.54	0.41
25:TK:423:GLN:NE2	25:TK:427:ASP:OD1	2.54	0.41
25:TM:253:LEU:HD11	25:TM:316:LEU:HD11	2.02	0.41
24:TN:2:ARG:HB3	24:TN:133:GLN:NE2	2.36	0.41
25:UE:113:ILE:HA	25:UE:116:VAL:HG22	2.03	0.41
24:UF:196:GLU:HG2	24:UF:197:HIS:CD2	2.56	0.41
24:UH:136:LEU:HD22	24:UH:169:PHE:HE2	1.86	0.41
25:UI:77:ARG:HB2	25:UI:90:PHE:HE2	1.86	0.41
24:UJ:21:TRP:CE3	24:UJ:24:TYR:HD2	2.38	0.41
25:UK:113:ILE:HG13	25:UK:150:LEU:HD23	2.03	0.41
24:UL:211:ASP:HB3	24:UL:215:ARG:NH2	2.35	0.41
25:UM:34:GLY:HA3	25:UM:58:ARG:HG3	2.02	0.41
24:VB:55:GLU:HB2	24:VB:62:VAL:HB	2.03	0.41
25:VE:164:MET:HB2	25:VE:197:ASP:H	1.86	0.41
24:VF:213:CYS:HA	24:VF:217:LEU:HB2	2.02	0.41
25:VG:114:ASP:OD1	25:VG:114:ASP:N	2.52	0.41
25:VI:330:MET:HA	25:VI:333:VAL:HG12	2.03	0.41
24:VL:103:PHE:HB3	24:VL:408:TYR:HE2	1.86	0.41
24:WB:67:PHE:HB2	24:WB:92:LEU:HD23	2.02	0.41
24:WB:236:SER:HA	24:WB:239:THR:HG22	2.03	0.41
24:WD:192:HIS:NE2	24:WD:420:GLU:OE1	2.54	0.41
25:WE:31:ASP:OD1	25:WE:34:GLY:N	2.54	0.41
25:WE:391:ARG:O	24:WF:262:TYR:OH	2.38	0.41
25:WI:66:MET:HE3	25:WI:116:VAL:HG11	2.03	0.41
39:X0:671:ALA:HA	39:X0:821:LEU:HA	2.02	0.41
39:X1:508:TRP:HZ3	39:X1:606:ASN:HB2	1.86	0.41
39:X3:121:GLY:HA2	39:X3:150:ARG:HB3	2.02	0.41
39:X3:492:ARG:HA	39:X3:495:VAL:HG22	2.03	0.41
39:X3:996:CYS:HA	39:X3:1044:THR:HA	2.03	0.41
24:XF:101:ASN:HA	24:XF:144:GLY:H	1.86	0.41
25:XI:130:LEU:O	25:XI:162:ARG:NE	2.49	0.41
24:XN:115:VAL:HG21	24:XN:152:LEU:HG	2.02	0.41
25:XO:86:ARG:HH12	25:XO:122:LYS:HE3	1.84	0.41
25:XO:392:LYS:HE3	25:XO:395:LEU:HD13	2.03	0.41
40:Y0:176:ILE:HD13	40:Y0:428:LEU:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:Y1:18:GLU:HA	40:Y1:21:ASN:HB2	2.02	0.41
40:Y1:154:LEU:O	40:Y1:158:MET:N	2.43	0.41
40:Y5:354:GLU:HB3	40:Y5:356:ILE:HG23	2.02	0.41
40:Y6:358:GLN:HA	40:Y6:473:ARG:HH12	1.85	0.41
40:Y6:453:GLN:HA	40:Y6:456:ARG:HD2	2.03	0.41
40:Y7:58:SER:HB2	40:Y7:444:ARG:NH2	2.36	0.41
24:YH:191:THR:HG21	24:YH:388:PHE:HE2	1.86	0.41
25:YI:67:ASP:OD2	25:YI:72:THR:OG1	2.37	0.41
24:YL:174:SER:HB2	24:YL:177:VAL:HB	2.02	0.41
25:YM:314:SER:N	25:YM:368:ILE:O	2.46	0.41
25:YO:183:TYR:HE1	25:YO:388:MET:HB2	1.84	0.41
41:Z1:209:GLY:HA2	41:Z1:235:GLY:HA3	2.02	0.41
41:Z2:199:ARG:HH11	41:Z2:218:ILE:HD11	1.86	0.41
24:ZB:213:CYS:HA	24:ZB:217:LEU:HB2	2.02	0.41
24:ZF:288:VAL:HG13	24:ZF:319:TYR:HE2	1.84	0.41
25:ZI:396:HIS:HA	25:ZI:399:THR:HG22	2.01	0.41
24:ZJ:181:VAL:HB	25:ZK:256:ASN:HD22	1.86	0.41
24:ZN:25:CYS:O	24:ZN:30:ILE:N	2.54	0.41
24:ZN:215:ARG:NH1	24:ZN:299:ALA:HB1	2.32	0.41
24:ZP:2:ARG:NE	24:ZP:242:LEU:O	2.53	0.41
2:1A:1539:LYS:HE3	2:1A:2051:GLU:OE2	2.20	0.41
2:1A:1919:ALA:HB1	18:C0:1928:ARG:HB3	2.03	0.41
2:1A:2054:ARG:H	2:1A:2054:ARG:HD2	1.85	0.41
2:1B:2040:ALA:H	2:1B:2082:LEU:HG	1.86	0.41
2:1B:2244:ASP:N	2:1B:2244:ASP:OD1	2.49	0.41
2:1C:1363:ARG:HD3	2:1C:1363:ARG:HA	1.89	0.41
2:1C:1434:ASP:N	2:1C:1434:ASP:OD1	2.53	0.41
2:1C:1935:LEU:HB2	2:1C:1952:GLN:HG3	2.01	0.41
2:1D:1247:ALA:O	2:1D:1417:ARG:NH2	2.54	0.41
2:1D:1363:ARG:NH2	2:1D:1409:ASP:OD2	2.54	0.41
4:2A:290:VAL:HG13	4:2A:291:PHE:CD1	2.56	0.41
6:2H:80:GLY:O	6:2H:95:SER:HA	2.21	0.41
14:8A:162:GLU:H	14:8A:162:GLU:HG3	1.70	0.41
14:8D:41:ARG:NH1	25:XC:71:GLY:O	2.40	0.41
15:9B:1083:ILE:HA	15:9B:1092:LEU:O	2.21	0.41
15:9B:1701:GLN:HA	15:9B:1774:VAL:O	2.20	0.41
15:9C:1074:GLN:HA	15:9C:1084:ARG:HA	2.03	0.41
16:A3:66:ILE:HG13	19:G5:15:LYS:NZ	2.35	0.41
18:C0:1268:ARG:HH12	18:C0:1481:GLY:N	2.19	0.41
18:C0:1582:MET:O	18:C0:1585:ARG:HB3	2.21	0.41
18:C0:1902:MET:HA	18:C0:1911:VAL:HG21	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:C1:630:GLU:CD	18:C1:687:LYS:HZ1	2.22	0.41
18:C1:1086:LEU:HD23	18:C1:1089:LYS:HD2	2.02	0.41
18:C1:1454:ARG:HA	18:C1:1457:LEU:HG	2.02	0.41
18:C1:1806:GLN:HA	18:C1:1809:ARG:HG2	2.02	0.41
18:C2:9:LEU:HB3	18:C2:17:VAL:HG21	2.02	0.41
18:C2:881:GLN:OE1	18:C2:882:GLN:NE2	2.49	0.41
18:C3:123:ALA:HB3	19:D3:44:ALA:HA	2.03	0.41
18:C3:408:LEU:HD23	18:C3:411:ARG:HH12	1.86	0.41
18:C3:555:ARG:HH22	18:C3:560:ILE:HD12	1.85	0.41
18:C3:710:VAL:HG12	18:C3:770:PHE:CZ	2.56	0.41
18:C3:1293:GLN:NE2	18:C3:1337:LEU:HB2	2.36	0.41
18:C4:260:LEU:O	18:C4:264:HIS:ND1	2.53	0.41
19:D0:325:GLU:OE2	19:D0:365:ARG:NH2	2.51	0.41
19:D0:358:TRP:HA	19:D0:400:CYS:SG	2.61	0.41
19:D2:13:TYR:HB2	19:D3:20:PHE:CD1	2.56	0.41
19:D2:302:ILE:HD13	19:D2:302:ILE:HA	1.93	0.41
19:D2:387:GLU:HA	19:D2:397:LYS:HZ3	1.85	0.41
19:D2:401:ARG:HB3	19:D2:405:LYS:HE2	2.03	0.41
19:D3:17:ARG:O	19:D3:21:VAL:HG23	2.21	0.41
19:D3:173:VAL:HG12	19:D3:210:ALA:HB2	2.03	0.41
19:D5:149:LEU:HD12	19:D5:172:LEU:HD21	2.03	0.41
19:D5:273:THR:O	19:D5:276:ARG:HG2	2.20	0.41
19:D7:126:ALA:O	19:D7:129:SER:OG	2.32	0.41
20:E0:345:SER:HB3	20:E0:348:ARG:HG2	2.03	0.41
20:E0:381:THR:HG21	20:E0:386:LEU:HB2	2.03	0.41
20:E2:57:LYS:NZ	24:UD:341:ILE:O	2.54	0.41
21:F3:115:ASP:OD1	21:F3:116:ASN:N	2.54	0.41
19:G1:128:ASP:OD1	19:G1:128:ASP:N	2.54	0.41
19:G2:273:THR:O	19:G2:276:ARG:HB2	2.21	0.41
19:G2:301:TYR:OH	19:G2:309:ASN:ND2	2.53	0.41
19:G2:328:ALA:O	19:G2:332:ILE:HG12	2.20	0.41
19:G5:349:GLU:HB3	19:G5:352:LEU:HD23	2.01	0.41
19:H1:285:LEU:HA	19:H1:285:LEU:HD23	1.88	0.41
19:H2:261:LYS:HA	19:H2:261:LYS:HD3	1.87	0.41
19:H6:78:ALA:HA	19:H6:81:GLN:HG3	2.01	0.41
19:H6:337:LEU:HA	19:H6:340:LEU:HG	2.03	0.41
19:H7:25:ALA:O	19:H7:67:ARG:NH1	2.53	0.41
19:H7:347:GLU:HA	19:H7:353:LYS:HZ2	1.86	0.41
19:I0:85:LEU:HD21	19:I0:121:VAL:HG22	2.03	0.41
19:I0:282:THR:HB	19:I0:284:GLU:OE1	2.21	0.41
19:I0:356:THR:O	19:I0:360:LEU:HG	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:I1:4:ARG:NH2	24:OJ:423:GLU:OE1	2.28	0.41
19:I1:276:ARG:NH1	19:I1:315:MET:SD	2.88	0.41
19:I1:383:LEU:HA	19:I1:383:LEU:HD23	1.82	0.41
19:J0:111:ALA:O	19:J0:155:HIS:NE2	2.38	0.41
19:J2:182:SER:HA	19:J2:185:ARG:HG2	2.02	0.41
19:K0:283:PRO:HB3	19:K0:323:PHE:HB3	2.03	0.41
19:K1:198:THR:HA	19:K1:199:PRO:HD3	1.91	0.41
19:K1:355:ALA:O	19:K1:359:THR:HG23	2.20	0.41
19:K1:364:GLY:HA2	19:K1:370:HIS:HD2	1.86	0.41
19:K2:210:ALA:O	19:K2:214:LEU:CB	2.69	0.41
19:K2:365:ARG:HB3	19:K2:403:ALA:HB1	2.03	0.41
19:K3:4:ARG:NH2	24:SF:424:ASP:OD1	2.36	0.41
19:K3:273:THR:HG22	19:K3:276:ARG:NH1	2.36	0.41
19:L0:173:VAL:HA	19:L0:176:VAL:HG23	2.02	0.41
19:L0:306:ALA:HB3	19:L0:309:ASN:HB2	2.03	0.41
19:L2:112:ARG:HG3	19:L2:151:TYR:CD1	2.55	0.41
19:L2:242:ASP:OD1	19:L2:243:LEU:N	2.54	0.41
23:N0:23:GLN:O	23:N0:27:ALA:N	2.50	0.41
23:N3:56:LEU:HA	23:N3:59:LYS:HB2	2.03	0.41
24:NB:209:ILE:HA	24:NB:212:ILE:HG22	2.03	0.41
25:NC:412:GLU:HA	25:NC:415:MET:HB2	2.03	0.41
24:ND:65:CYS:SG	24:ND:66:ILE:N	2.94	0.41
24:ND:68:LEU:HD11	24:ND:153:LEU:HD22	2.03	0.41
24:ND:265:ILE:HD11	24:ND:435:VAL:HG21	2.02	0.41
24:ND:322:ASP:OD1	24:ND:322:ASP:N	2.53	0.41
25:NG:105:HIS:ND1	25:NG:146:GLY:O	2.54	0.41
24:NH:222:PRO:HD2	25:NI:324:LYS:HB3	2.03	0.41
25:NI:8:GLN:HG3	25:NI:65:LEU:HG	2.03	0.41
25:NI:101:TRP:H	25:NI:398:TYR:HE1	1.69	0.41
25:NI:110:ALA:HA	25:NI:113:ILE:HG22	2.03	0.41
24:NJ:274:PRO:HG2	24:NJ:371:VAL:HG21	2.01	0.41
24:NJ:286:LEU:HD13	24:NJ:371:VAL:HG23	2.03	0.41
24:NJ:319:TYR:CZ	24:NJ:328:VAL:HG23	2.55	0.41
25:NK:164:MET:HB3	25:NK:197:ASP:H	1.85	0.41
24:NL:9:ILE:HD13	24:NL:68:LEU:HG	2.03	0.41
25:NM:105:HIS:CE1	25:NM:149:THR:HG1	2.38	0.41
24:NN:209:ILE:HA	24:NN:212:ILE:HB	2.03	0.41
25:NO:252:LYS:HA	25:NO:252:LYS:HD2	1.73	0.41
25:NO:294:TRP:CE2	25:NO:333:VAL:HG11	2.56	0.41
25:NO:313:ALA:HB1	25:NO:367:PHE:HE1	1.86	0.41
25:OC:16:ILE:HD13	25:OC:229:ILE:HG21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:OD:88:HIS:CE1	24:PD:284:GLU:HG2	2.54	0.41
24:OD:116:ASP:OD1	24:OD:117:LEU:N	2.54	0.41
25:OE:60:VAL:HA	25:OE:61:PRO:HD3	1.83	0.41
25:OE:198:GLU:HB2	25:OE:266:PHE:HE2	1.86	0.41
24:OF:65:CYS:SG	24:OF:66:ILE:N	2.94	0.41
24:OF:427:ALA:HA	24:OF:430:LYS:HG2	2.03	0.41
24:OH:211:ASP:OD2	24:OH:304:LYS:NZ	2.51	0.41
25:OI:8:GLN:HB2	25:OI:65:LEU:HD13	2.03	0.41
25:OI:66:MET:HE2	25:OI:116:VAL:HG11	2.03	0.41
25:OI:270:PHE:CE2	25:OI:272:PRO:HD2	2.55	0.41
24:OJ:345:ASP:OD1	24:OJ:345:ASP:N	2.53	0.41
25:OM:105:HIS:HB3	25:OM:106:TYR:CD1	2.55	0.41
25:OM:391:ARG:O	24:ON:262:TYR:OH	2.34	0.41
24:ON:259:LEU:HD11	24:ON:316:CYS:HB3	2.03	0.41
25:OO:105:HIS:HD2	25:OO:106:TYR:CE1	2.39	0.41
24:OP:3:GLU:OE1	24:OP:130:THR:N	2.54	0.41
25:PC:324:LYS:H	25:PC:324:LYS:HG2	1.66	0.41
24:PD:209:ILE:HD11	24:PD:302:MET:HB3	2.02	0.41
24:PF:174:SER:HB3	24:PF:177:VAL:O	2.20	0.41
24:PF:195:LEU:HD23	24:PF:195:LEU:HA	1.91	0.41
24:PH:405:VAL:HG13	24:PH:418:PHE:HE2	1.85	0.41
25:PI:168:SER:OG	25:PI:199:CYS:SG	2.78	0.41
24:PJ:28:HIS:CE1	24:PJ:49:PHE:HA	2.56	0.41
25:PK:31:ASP:OD1	25:PK:35:THR:N	2.52	0.41
25:PK:139:LEU:HG	25:PK:168:SER:HB2	2.03	0.41
25:PM:148:GLY:O	25:PM:152:ILE:HG12	2.21	0.41
25:PM:336:LYS:HD3	25:PM:336:LYS:HA	1.81	0.41
25:PM:388:MET:HG3	24:PN:346:TRP:O	2.21	0.41
24:PN:66:ILE:HD13	24:PN:122:ILE:HD11	2.03	0.41
25:PO:152:ILE:HG23	25:PO:195:ASN:ND2	2.36	0.41
25:PO:397:TRP:HE1	24:PP:260:VAL:HG23	1.85	0.41
24:PP:189:LEU:HD11	24:PP:418:PHE:HE1	1.86	0.41
28:Q0:49:ILE:HD12	28:Q0:84:LEU:HD11	2.03	0.41
28:Q0:150:LEU:HD23	28:Q0:150:LEU:HA	1.94	0.41
28:Q0:178:TYR:HB2	28:Q0:222:LEU:HD21	2.02	0.41
28:Q0:823:ARG:HD2	28:Q0:823:ARG:HA	1.85	0.41
28:Q0:1158:VAL:O	28:Q0:1162:GLU:HG2	2.20	0.41
28:Q0:1988:ASP:OD1	28:Q0:1989:PHE:N	2.54	0.41
28:Q0:2572:LEU:HD13	28:Q0:2572:LEU:HA	1.96	0.41
28:Q1:245:ASP:HA	28:Q1:248:LYS:HG2	2.03	0.41
28:Q1:1379:GLN:HE22	28:Q1:1664:ILE:HB	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Q1:2090:HIS:HA	28:Q1:2096:ARG:NH2	2.35	0.41
28:Q1:2353:GLU:HA	28:Q1:2354:PRO:HD3	1.83	0.41
28:Q1:2584:LEU:HD23	28:Q1:2584:LEU:HA	1.91	0.41
28:Q1:2594:TYR:HB3	28:Q1:2604:LEU:HD12	2.03	0.41
28:Q1:3014:PRO:HA	28:Q1:3015:PRO:HD3	1.94	0.41
25:QC:397:TRP:NE1	24:QD:256:GLN:O	2.54	0.41
25:QC:407:GLU:HA	25:QC:410:GLU:HG3	2.03	0.41
24:QD:66:ILE:HD12	24:QD:68:LEU:HD22	2.02	0.41
24:QD:168:GLY:O	24:QD:202:VAL:N	2.40	0.41
24:QD:247:ALA:HB3	24:QD:355:ILE:HD11	2.03	0.41
24:QF:130:THR:OG1	24:QF:131:GLY:N	2.54	0.41
25:QG:124:ALA:HA	25:QG:130:LEU:HD21	2.03	0.41
25:QI:106:TYR:HE1	25:QI:403:MET:HB2	1.86	0.41
25:QI:236:ILE:HD13	25:QI:236:ILE:HA	1.93	0.41
25:QI:331:LEU:HD23	25:QI:331:LEU:HA	1.87	0.41
25:QO:334:GLN:HE21	25:QO:349:VAL:HG13	1.86	0.41
25:QQ:105:HIS:ND1	25:QQ:146:GLY:O	2.53	0.41
25:RE:107:THR:OG1	25:RE:108:GLU:OE1	2.39	0.41
25:RE:180:VAL:HG23	25:RE:184:ASN:HD21	1.86	0.41
25:RE:325:GLU:OE1	25:RE:325:GLU:N	2.53	0.41
25:RI:19:LYS:HG3	25:RI:226:ASN:HB2	2.02	0.41
24:RJ:247:ALA:HB3	24:RJ:355:ILE:HB	2.02	0.41
25:RK:16:ILE:HD11	25:RK:229:ILE:HG21	2.03	0.41
25:RK:109:GLY:HA2	25:RK:147:MET:SD	2.60	0.41
25:RK:395:LEU:HD12	25:RK:398:TYR:HB2	2.03	0.41
24:RN:401:LYS:HD2	25:RO:344:TRP:CE2	2.56	0.41
25:RO:214:THR:OG1	25:RO:215:LEU:N	2.54	0.41
30:S2:45:ARG:HH21	24:XF:47:ASP:N	2.19	0.41
24:SB:398:MET:HE2	25:SC:346:PRO:HD2	2.03	0.41
25:SC:31:ASP:OD1	25:SC:35:THR:N	2.54	0.41
24:SD:297:GLU:HA	24:SD:298:PRO:HD3	1.88	0.41
25:SG:209:ASP:OD2	25:SG:297:LYS:HE3	2.21	0.41
25:SI:192:LEU:HD22	25:SI:196:ALA:HB2	2.03	0.41
24:SJ:298:PRO:HG3	24:SJ:308:ARG:HH12	1.86	0.41
24:SL:25:CYS:HB2	24:SL:30:ILE:HB	2.02	0.41
25:SO:294:TRP:CG	25:SO:333:VAL:HG21	2.56	0.41
24:SP:206:ASN:HD22	24:SP:206:ASN:HA	1.65	0.41
24:SP:346:TRP:HZ2	24:SP:435:VAL:HG13	1.84	0.41
32:T1:501:ASP:OD1	32:T1:502:GLU:N	2.53	0.41
32:T3:153:SER:N	32:T3:173:THR:O	2.52	0.41
24:TB:221:ARG:NH1	25:TC:324:LYS:H	2.06	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:TB:231:ILE:O	24:TB:235:ILE:HG12	2.21	0.41
24:TB:311:LYS:NZ	24:TB:342:GLN:HB3	2.36	0.41
24:TF:99:ALA:HA	24:TF:110:ILE:HD11	2.03	0.41
24:TH:9:ILE:HB	24:TH:139:ASN:HB3	2.03	0.41
25:TI:263:LEU:O	25:TI:370:ASN:ND2	2.51	0.41
24:TN:209:ILE:HA	24:TN:212:ILE:HG22	2.03	0.41
24:TN:240:ALA:HA	24:TN:243:ARG:HE	1.85	0.41
25:TO:334:GLN:HE22	25:TO:347:ASN:H	1.68	0.41
24:UD:173:PRO:HG2	24:UD:183:GLU:HB3	2.02	0.41
24:UD:228:ASN:OD1	44:UD:501:GTP:N1	2.49	0.41
24:UD:269:LEU:HG	24:UD:384:ILE:HD11	2.02	0.41
25:UG:74:ASP:HA	25:UG:77:ARG:HG2	2.03	0.41
25:UG:100:ASN:HB3	25:UG:103:LYS:HB2	2.03	0.41
25:UG:309:ARG:NH2	25:UG:427:ASP:O	2.53	0.41
25:UK:7:ILE:O	25:UK:135:VAL:HA	2.21	0.41
25:UM:49:VAL:HG11	25:UM:241:ARG:HG2	2.02	0.41
24:UN:401:LYS:HD2	25:UO:344:TRP:CE2	2.56	0.41
25:UO:68:LEU:HB3	25:UO:96:GLY:HA2	2.03	0.41
25:UO:240:LEU:HD11	25:UO:250:LEU:HG	2.03	0.41
24:UP:288:VAL:HG13	24:UP:319:TYR:HE2	1.85	0.41
24:VB:108:TYR:OH	24:VB:417:GLU:OE1	2.29	0.41
24:VD:207:GLU:HA	24:VD:210:TYR:HB2	2.02	0.41
24:VH:96:LYS:HA	24:VH:96:LYS:HD3	1.87	0.41
24:VH:100:ALA:O	25:VI:255:VAL:HG11	2.21	0.41
24:VH:177:VAL:HG12	25:VI:331:LEU:HB2	2.02	0.41
24:VH:273:ALA:HB2	24:VH:295:ALA:HB2	2.03	0.41
25:VK:250:LEU:HD23	25:VK:250:LEU:HA	1.92	0.41
24:VL:209:ILE:HG23	24:VL:230:LEU:HD11	2.03	0.41
24:VL:298:PRO:HG3	24:VL:308:ARG:HH12	1.85	0.41
25:VM:236:ILE:HD12	25:VM:368:ILE:HD11	2.03	0.41
24:VN:338:LYS:HD2	24:VN:338:LYS:HA	1.66	0.41
25:VO:317:PHE:HB3	25:VO:321:MET:SD	2.61	0.41
25:WA:87:PRO:HA	25:WA:90:PHE:CD2	2.56	0.41
25:WA:207:LEU:HD21	25:WA:229:ILE:HG13	2.02	0.41
25:WA:217:LEU:HD13	25:WA:220:PRO:HB3	2.03	0.41
24:WB:297:GLU:OE1	24:WB:298:PRO:HD2	2.21	0.41
24:WF:191:THR:HA	24:WF:194:LEU:HB3	2.02	0.41
24:WH:229:ARG:HD3	24:WH:363:VAL:HG21	2.02	0.41
25:WI:32:PRO:HD3	25:WI:81:TYR:HE1	1.86	0.41
25:WI:253:LEU:HD21	25:WI:316:LEU:HD21	2.02	0.41
24:WL:70:LEU:HA	24:WL:95:GLY:HA3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:WL:251:ASP:H	24:WL:254:GLU:HB3	1.86	0.41
24:WL:259:LEU:HD21	24:WL:316:CYS:HB2	2.02	0.41
25:WM:62:ARG:NH1	25:WM:123:GLU:OE1	2.51	0.41
25:WM:177:ASP:O	24:WN:352:LYS:HD2	2.21	0.41
25:WM:328:GLU:O	25:WM:332:ASN:N	2.49	0.41
24:WN:88:HIS:HA	24:WN:89:PRO:HD3	1.97	0.41
24:WN:132:LEU:HB3	24:WN:164:LYS:HZ1	1.86	0.41
24:WN:210:TYR:CE1	25:WO:324:LYS:HG2	2.56	0.41
39:X0:599:GLY:H	39:X0:670:TYR:HE2	1.69	0.41
39:X2:106:ARG:NH1	39:X2:130:LEU:H	2.19	0.41
39:X2:481:ARG:O	39:X2:485:GLU:N	2.47	0.41
39:X3:75:LEU:HD23	39:X3:75:LEU:HA	1.92	0.41
39:X3:664:VAL:O	39:X3:668:LEU:HG	2.21	0.41
25:XA:67:ASP:OD2	25:XA:72:THR:OG1	2.38	0.41
24:XB:88:HIS:HB3	24:XB:91:GLN:HB2	2.01	0.41
25:XC:49:VAL:HG21	25:XC:241:ARG:HG2	2.03	0.41
24:XD:387:ILE:HG13	24:XD:390:ARG:HE	1.85	0.41
25:XE:130:LEU:O	25:XE:162:ARG:NH1	2.54	0.41
24:XF:65:CYS:SG	24:XF:66:ILE:N	2.94	0.41
25:XG:68:LEU:HD23	25:XG:112:LEU:HD13	2.03	0.41
25:XG:207:LEU:HB3	25:XG:225:LEU:HD22	2.02	0.41
25:XG:238:CYS:HB2	25:XG:318:ARG:NH1	2.35	0.41
24:XH:9:ILE:HG12	24:XH:68:LEU:HD21	2.03	0.41
25:XK:65:LEU:HD12	25:XK:90:PHE:CE1	2.55	0.41
25:XK:173:PRO:HB3	25:XK:380:ARG:CD	2.50	0.41
24:XL:107:HIS:CD2	24:XL:152:LEU:HD13	2.56	0.41
25:XO:256:ASN:O	25:XO:312:THR:HG21	2.21	0.41
40:Y2:71:ARG:NH1	40:Y2:72:LYS:HB3	2.36	0.41
40:Y2:214:PRO:HB2	40:Y2:217:ALA:HB2	2.03	0.41
40:Y3:143:ASP:OD1	40:Y3:144:ASN:N	2.54	0.41
40:Y4:125:ASP:OD2	40:Y4:127:VAL:HG22	2.21	0.41
40:Y4:358:GLN:HE22	40:Y4:360:VAL:CG2	2.34	0.41
40:Y5:197:GLY:HA3	40:Y5:205:LEU:HD23	2.02	0.41
40:Y5:452:ASN:HA	40:Y5:455:LEU:HB2	2.02	0.41
40:Y6:44:PRO:HA	40:Y6:45:PRO:HD3	1.93	0.41
40:Y6:173:TYR:OH	40:Y6:460:GLU:OE1	2.35	0.41
40:Y6:195:ILE:HB	40:Y6:210:PHE:HB2	2.02	0.41
40:Y7:68:VAL:HG13	40:Y7:75:PHE:HB2	2.03	0.41
25:YC:326:VAL:O	25:YC:330:MET:HG2	2.20	0.41
25:YC:396:HIS:HE2	24:YD:261:PRO:C	2.22	0.41
24:YF:231:ILE:HD13	24:YF:231:ILE:HA	1.94	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:YG:134:GLN:HG3	25:YG:167:PHE:HE1	1.86	0.41
25:YI:234:SER:OG	25:YI:241:ARG:NH2	2.54	0.41
25:YI:248:ALA:HA	25:YI:252:LYS:HE3	2.03	0.41
25:YI:286:VAL:HG22	25:YI:321:MET:HE2	2.03	0.41
25:YI:315:ALA:HB1	25:YI:317:PHE:CE1	2.56	0.41
24:YJ:167:LEU:HA	24:YJ:200:VAL:HG13	2.03	0.41
24:YL:147:SER:HB3	24:YL:190:SER:HB3	2.02	0.41
25:YM:257:LEU:HD13	25:YM:312:THR:HG22	2.03	0.41
24:YP:205:ASP:HB2	24:YP:303:VAL:HG13	2.02	0.41
41:Z0:32:ASN:OD1	41:Z0:36:ASN:N	2.42	0.41
41:Z1:246:HIS:HD2	41:Z1:311:LEU:HD11	1.85	0.41
41:Z1:457:LYS:NZ	41:Z1:458:ASP:OD1	2.51	0.41
41:Z2:12:LEU:HD12	41:Z2:12:LEU:HA	1.97	0.41
41:Z3:545:LYS:HA	41:Z3:545:LYS:HE3	2.03	0.41
24:ZB:394:LYS:NZ	25:ZC:346:PRO:O	2.53	0.41
24:ZD:28:HIS:CE1	24:ZD:49:PHE:HA	2.56	0.41
25:ZE:6:HIS:HD2	25:ZE:21:TRP:HE1	1.69	0.41
24:ZF:175:PRO:HB3	24:ZF:390:ARG:HD2	2.02	0.41
25:ZG:36:TYR:CZ	25:ZG:44:LEU:HG	2.56	0.41
25:ZI:124:ALA:HB1	25:ZI:130:LEU:HD11	2.03	0.41
25:ZI:167:PHE:CE2	25:ZI:200:MET:HG3	2.56	0.41
24:ZJ:258:ASN:C	24:ZJ:258:ASN:ND2	2.72	0.41
24:ZJ:286:LEU:O	24:ZJ:373:ARG:NH1	2.54	0.41
25:ZM:313:ALA:HB1	25:ZM:367:PHE:CE1	2.54	0.41
24:ZN:130:THR:OG1	24:ZN:131:GLY:N	2.53	0.41
24:ZN:224:TYR:HB2	25:ZO:245:GLN:NE2	2.36	0.41
24:ZN:276:ILE:HD12	24:ZN:281:ALA:HA	2.03	0.41
25:ZO:27:GLU:OE1	25:ZO:241:ARG:NH1	2.54	0.41
24:ZP:33:ASP:OD2	24:ZP:35:GLN:HB2	2.21	0.41
2:1A:1331:GLN:HA	2:1A:1334:GLU:HB2	2.03	0.41
2:1A:2026:VAL:HG22	2:1A:2096:ASP:HA	2.03	0.41
2:1C:1411:ASP:HA	2:1C:1414:VAL:HG12	2.03	0.41
13:7I:122:GLY:N	13:7I:138:TRP:O	2.47	0.41
15:9A:1074:GLN:HA	15:9A:1084:ARG:HA	2.03	0.41
15:9E:1694:VAL:O	15:9E:1782:GLU:N	2.54	0.41
18:C0:1364:VAL:HA	18:C0:1367:LEU:HD12	2.03	0.41
18:C0:1662:LEU:HD11	18:C0:1766:LEU:HB3	2.02	0.41
18:C1:1367:LEU:HA	18:C1:1370:ARG:HG2	2.03	0.41
18:C2:1289:VAL:HG22	18:C2:1374:LEU:HB3	2.02	0.41
18:C2:1347:LYS:HA	18:C2:1350:ILE:HD12	2.02	0.41
19:D0:74:ASP:OD1	19:D0:75:LEU:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:D3:172:LEU:HD13	19:D3:191:LEU:HB3	2.03	0.41
19:D4:196:LYS:HA	19:D4:238:LYS:HZ2	1.86	0.41
19:D7:43:MET:HG3	19:D7:82:ASN:HD22	1.86	0.41
20:E0:345:SER:OG	20:E0:346:ALA:N	2.54	0.41
20:E2:161:PHE:CZ	25:UC:328:GLU:HG2	2.56	0.41
20:E3:150:PRO:O	20:E3:152:GLY:N	2.53	0.41
21:F1:25:LYS:HD3	24:VL:416:GLY:N	2.36	0.41
19:G1:242:ASP:OD1	19:G1:242:ASP:N	2.53	0.41
19:G4:95:GLN:HB3	19:G4:99:TYR:HD2	1.86	0.41
19:H0:21:VAL:HG11	19:H0:57:ILE:HD13	2.03	0.41
19:H0:148:THR:O	19:H0:152:ILE:HG12	2.20	0.41
19:H0:161:GLN:HA	19:H0:164:VAL:HG22	2.03	0.41
19:H2:37:LEU:HD13	19:H2:68:LEU:HD21	2.03	0.41
19:H2:276:ARG:O	19:H2:280:LYS:HD2	2.21	0.41
19:H3:97:ARG:NH1	19:H3:138:ASP:OD1	2.54	0.41
19:H5:273:THR:HA	19:H5:276:ARG:HG3	2.03	0.41
19:H6:387:GLU:HG2	19:H6:397:LYS:NZ	2.36	0.41
19:I0:16:GLU:OE1	19:I1:16:GLU:HG3	2.21	0.41
19:I0:360:LEU:HA	19:I0:363:ILE:HD12	2.03	0.41
19:I1:76:ALA:HA	19:I1:79:VAL:HG12	2.03	0.41
19:J0:157:ALA:O	19:J0:161:GLN:HG3	2.21	0.41
19:J2:128:ASP:O	19:J2:132:THR:OG1	2.22	0.41
19:J3:287:GLN:NE2	19:J3:327:LEU:HD11	2.35	0.41
19:K1:178:GLU:HA	19:K1:179:PRO:HD3	1.84	0.41
19:K2:193:ASP:HA	19:K2:196:LYS:HD3	2.03	0.41
19:K2:237:ALA:HB2	19:K2:247:VAL:HG11	2.03	0.41
19:L1:358:TRP:HA	19:L1:400:CYS:SG	2.61	0.41
19:L1:473:GLU:HA	19:L1:476:GLU:CD	2.42	0.41
19:L2:138:ASP:HB3	19:L2:141:VAL:HG22	2.03	0.41
19:L2:478:ILE:HD12	19:L2:482:TYR:HE2	1.86	0.41
19:L3:275:VAL:HG11	19:L3:298:LEU:HD21	2.03	0.41
22:M1:50:PHE:HB2	22:M1:135:ALA:HA	2.03	0.41
22:M1:821:ASP:HB3	22:M1:823:TRP:HD1	1.86	0.41
23:N1:66:CYS:HA	23:N1:69:LEU:HD12	2.03	0.41
24:NB:137:VAL:HG11	24:NB:154:LEU:HD21	2.03	0.41
24:ND:211:ASP:O	24:ND:214:ARG:HG3	2.22	0.41
24:ND:316:CYS:HA	24:ND:352:LYS:HB3	2.03	0.41
24:ND:399:TYR:O	24:ND:402:ARG:NH1	2.54	0.41
25:NK:392:LYS:HE2	25:NK:392:LYS:HB2	1.90	0.41
25:OE:7:ILE:HG12	25:OE:64:ILE:HD13	2.02	0.41
24:OH:228:ASN:HA	24:OH:231:ILE:HB	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:OL:8:HIS:ND1	24:OL:65:CYS:SG	2.93	0.41
24:OL:297:GLU:HG2	24:OL:298:PRO:HD2	2.02	0.41
24:ON:195:LEU:HA	24:ON:266:HIS:CE1	2.56	0.41
24:ON:217:LEU:HD23	24:ON:217:LEU:HA	1.93	0.41
24:OP:274:PRO:HD3	24:OP:291:ILE:HB	2.03	0.41
25:PC:211:CYS:HB2	25:PC:220:PRO:HG2	2.03	0.41
25:PE:270:PHE:CE2	25:PE:272:PRO:HD2	2.56	0.41
24:PF:68:LEU:HA	24:PF:93:ILE:HB	2.03	0.41
24:PF:109:THR:HG22	24:PF:110:ILE:HG23	2.01	0.41
24:PJ:147:SER:HB2	24:PJ:190:SER:HB3	2.03	0.41
24:PL:156:ARG:HA	24:PL:156:ARG:HD2	1.89	0.41
25:PM:337:ASN:OD1	25:PM:337:ASN:N	2.52	0.41
24:PN:200:VAL:HG11	24:PN:255:PHE:HE2	1.86	0.41
25:PQ:149:THR:HA	25:PQ:152:ILE:HG12	2.03	0.41
25:PQ:311:LEU:HD12	25:PQ:342:VAL:HG21	2.03	0.41
28:Q0:73:GLY:HA2	28:Q0:76:LEU:HD12	2.03	0.41
28:Q0:737:LEU:HG	28:Q0:754:LEU:HB3	2.03	0.41
28:Q0:1294:HIS:HB3	28:Q0:1311:LEU:HD21	2.03	0.41
28:Q0:2307:SER:HG	28:Q0:2700:ARG:HH12	1.69	0.41
28:Q1:657:ALA:HB2	28:Q1:700:GLU:HB3	2.02	0.41
28:Q1:669:LEU:HD23	28:Q1:669:LEU:HA	1.94	0.41
28:Q1:852:ASN:HA	28:Q1:853:PRO:HD3	1.84	0.41
28:Q1:2885:GLN:OE1	28:Q1:2885:GLN:N	2.54	0.41
24:QF:397:LEU:HD21	25:QG:344:TRP:HA	2.02	0.41
25:QK:152:ILE:HD13	25:QK:152:ILE:HA	1.92	0.41
24:QL:137:VAL:HG21	24:QL:154:LEU:HD11	2.02	0.41
25:RC:41:ASP:OD1	25:RC:41:ASP:N	2.53	0.41
25:RE:40:SER:HB3	25:RE:43:GLN:HG3	2.03	0.41
24:RF:135:PHE:HB2	24:RF:166:LYS:HG2	2.03	0.41
24:RF:317:LEU:HB3	24:RF:319:TYR:HE1	1.86	0.41
24:RL:97:GLU:OE1	25:RM:251:ARG:NH1	2.54	0.41
25:RM:133:PHE:HB2	25:RM:164:MET:SD	2.61	0.41
24:RN:231:ILE:HD13	24:RN:231:ILE:HA	1.91	0.41
24:RP:120:ASP:OD1	24:RP:121:ARG:N	2.54	0.41
24:RP:123:ARG:HA	24:RP:123:ARG:HD2	1.83	0.41
24:RP:423:GLU:O	24:RP:427:ALA:N	2.37	0.41
25:SG:207:LEU:HA	25:SG:210:ILE:HG22	2.03	0.41
24:SL:332:VAL:HG22	24:SL:351:PHE:CD1	2.56	0.41
24:SN:315:CYS:HB3	24:SN:351:PHE:HA	2.01	0.41
32:T0:473:LEU:HD12	32:T0:511:ALA:HB1	2.02	0.41
24:TD:65:CYS:SG	24:TD:66:ILE:N	2.94	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:TG:7:ILE:HB	25:TG:135:VAL:HG12	2.03	0.41
25:TI:68:LEU:HD12	25:TI:97:ALA:HB2	2.03	0.41
25:TI:193:VAL:O	25:TI:264:HIS:NE2	2.51	0.41
24:TJ:9:ILE:HD13	24:TJ:150:GLY:HA2	2.03	0.41
25:TO:272:PRO:HG3	25:TO:364:SER:HA	2.03	0.41
24:UB:209:ILE:HA	24:UB:212:ILE:HG22	2.03	0.41
24:UB:239:THR:HG23	24:UB:243:ARG:HH11	1.86	0.41
24:UB:242:LEU:HD11	24:UB:252:ILE:HG12	2.02	0.41
25:UE:105:HIS:CD2	25:UE:150:LEU:HB2	2.56	0.41
24:UF:406:HIS:CD2	25:UG:261:PRO:HG3	2.56	0.41
25:UK:263:LEU:HD11	25:UK:425:TYR:CE2	2.56	0.41
24:UL:223:THR:HG22	24:UL:226:ASN:ND2	2.36	0.41
25:UM:397:TRP:CZ2	24:UN:256:GLN:HB2	2.55	0.41
24:UP:326:LYS:HB3	24:UP:326:LYS:HE2	1.82	0.41
24:VF:217:LEU:HG	24:VF:275:ILE:HG22	2.03	0.41
24:VH:88:HIS:HB3	24:VH:91:GLN:HG2	2.02	0.41
25:VK:43:GLN:HA	25:VK:242:PHE:HE1	1.86	0.41
25:VK:203:ASP:OD2	25:VK:205:GLU:HG2	2.20	0.41
25:VK:207:LEU:HB3	25:VK:225:LEU:HD22	2.03	0.41
24:VP:168:GLY:N	24:VP:200:VAL:O	2.46	0.41
25:WA:69:GLU:HB3	24:WB:2:ARG:NH1	2.36	0.41
25:WC:141:GLY:O	25:WC:184:ASN:ND2	2.50	0.41
25:WG:289:LEU:HD22	25:WG:363:MET:HG2	2.03	0.41
25:WI:205:GLU:HA	25:WI:208:TYR:CD1	2.56	0.41
25:WK:45:GLU:HG2	25:WK:46:ARG:HG2	2.02	0.41
24:WN:272:TYR:HB3	24:WN:275:ILE:HD11	2.03	0.41
39:X2:274:ARG:NH2	39:X2:302:LEU:HD12	2.35	0.41
24:XD:183:GLU:CD	24:XD:184:PRO:HD3	2.42	0.41
24:XD:228:ASN:HA	24:XD:231:ILE:HB	2.02	0.41
24:XD:326:LYS:HB2	24:XD:326:LYS:HE2	1.76	0.41
25:XE:58:ARG:HH22	24:YF:283:HIS:CD2	2.39	0.41
25:XI:105:HIS:CD2	25:XI:150:LEU:HD12	2.56	0.41
25:XI:287:PRO:HA	25:XI:290:THR:HG22	2.02	0.41
24:XL:101:ASN:HB2	25:XM:255:VAL:HG11	2.03	0.41
24:XN:324:VAL:HG23	24:XN:326:LYS:H	1.86	0.41
40:Y0:189:VAL:H	40:Y0:436:GLN:HA	1.86	0.41
40:Y3:194:ILE:HD11	40:Y3:269:VAL:HG13	2.01	0.41
40:Y4:28:PRO:HG2	40:Y4:31:PRO:HA	2.03	0.41
40:Y5:194:ILE:HB	40:Y5:234:LEU:HD22	2.02	0.41
40:Y7:22:LEU:HD13	40:Y7:25:LYS:HD3	2.03	0.41
24:YD:265:ILE:HG22	24:YD:380:ASN:HD21	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:YG:229:ILE:HG22	25:YG:233:MET:HE2	2.02	0.41
25:YK:139:LEU:HG	25:YK:168:SER:HB2	2.03	0.41
24:YL:7:ILE:HD11	24:YL:137:VAL:HG22	2.02	0.41
41:Z1:324:GLU:OE1	41:Z1:328:ARG:NH1	2.54	0.41
41:Z2:584:MET:O	41:Z2:587:LEU:HG	2.21	0.41
41:Z3:200:ASN:HB2	41:Z3:337:VAL:HA	2.03	0.41
24:ZB:9:ILE:HG13	24:ZB:68:LEU:HD21	2.03	0.41
24:ZB:73:THR:HG22	25:ZC:46:ARG:HH12	1.85	0.41
25:ZC:249:ASP:OD1	25:ZC:252:LYS:HG2	2.21	0.41
25:ZE:44:LEU:HD23	25:ZE:47:ILE:HD11	2.03	0.41
25:ZE:237:THR:HB	25:ZE:240:LEU:HD12	2.03	0.41
24:ZH:265:ILE:HG23	24:ZH:432:PHE:HE1	1.85	0.41
24:ZN:407:TRP:CD1	25:ZO:255:VAL:HG23	2.56	0.41
2:1D:1610:VAL:H	2:1D:1686:GLY:HA3	1.85	0.40
4:2B:161:LYS:HE3	24:PJ:264:ARG:HD2	2.03	0.40
14:8A:36:PHE:HZ	25:XO:90:PHE:HD2	1.68	0.40
17:B1:539:LEU:H	24:SH:308:ARG:HH21	1.68	0.40
18:C2:246:ARG:HH21	19:D2:35:GLU:HG2	1.86	0.40
18:C2:771:PRO:HA	18:C2:776:GLN:HB3	2.03	0.40
18:C2:1358:VAL:HG11	18:C2:1382:LEU:HB3	2.03	0.40
18:C3:1197:PHE:HD2	18:C3:1476:THR:HG21	1.85	0.40
18:C3:1671:GLU:N	18:C3:1748:LYS:HZ1	2.13	0.40
18:C4:33:GLN:O	18:C4:37:LYS:HG2	2.21	0.40
18:C4:121:LEU:HD23	19:D5:51:LEU:HD22	2.03	0.40
18:C4:233:LEU:O	18:C4:236:ARG:HD3	2.21	0.40
19:D3:47:ARG:NH1	19:D3:82:ASN:O	2.54	0.40
19:D3:74:ASP:OD1	19:D3:74:ASP:N	2.54	0.40
21:F1:115:ASP:OD2	21:F1:116:ASN:N	2.53	0.40
21:F3:135:ARG:HH22	21:F3:154:VAL:HG22	1.86	0.40
19:G3:196:LYS:NZ	32:T1:581:VAL:HG13	2.36	0.40
19:J0:85:LEU:HD21	19:J0:110:VAL:HG21	2.03	0.40
19:J0:261:LYS:HA	19:J0:261:LYS:HD3	1.95	0.40
19:J1:269:LYS:HZ3	19:J1:309:ASN:HA	1.86	0.40
19:J1:273:THR:HG22	19:J1:276:ARG:NH1	2.35	0.40
19:K1:343:ALA:HA	19:K1:346:GLU:HG2	2.03	0.40
19:K3:371:ALA:HA	19:K3:374:VAL:HG22	2.03	0.40
19:L0:170:PRO:HA	19:L0:173:VAL:HG12	2.03	0.40
22:M1:382:PRO:HB2	22:M1:384:THR:HG22	2.02	0.40
22:M1:754:GLY:HA2	28:Q1:1921:ASP:H	1.85	0.40
25:NG:13:GLY:HA2	25:NG:16:ILE:HG22	2.03	0.40
25:NG:86:ARG:HG2	25:NG:88:ASP:H	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:NN:306:ASP:HB3	24:NN:309:HIS:CE1	2.56	0.40
25:OE:13:GLY:HA2	25:OE:16:ILE:HG22	2.02	0.40
24:OH:331:SER:O	24:OH:334:THR:OG1	2.34	0.40
24:OJ:244:PHE:HD2	24:OJ:356:ASN:HD21	1.69	0.40
25:OK:180:VAL:O	25:OK:184:ASN:ND2	2.54	0.40
24:OP:335:ILE:HD13	24:OP:335:ILE:HA	1.93	0.40
25:PE:374:ILE:HD11	25:PE:422:TYR:CZ	2.55	0.40
25:PK:166:THR:OG1	25:PK:199:CYS:SG	2.71	0.40
25:PO:406:MET:O	25:PO:409:THR:OG1	2.34	0.40
25:PQ:22:GLU:HA	25:PQ:81:TYR:HD2	1.87	0.40
28:Q0:841:LYS:HD3	28:Q0:841:LYS:HA	1.82	0.40
28:Q0:1132:LEU:O	28:Q0:1135:THR:OG1	2.31	0.40
28:Q0:2489:ASP:OD1	28:Q0:2489:ASP:N	2.54	0.40
28:Q0:2894:VAL:HG11	28:Q0:2956:ALA:HA	2.03	0.40
28:Q0:3029:VAL:HG21	28:Q0:3217:LEU:HD12	2.03	0.40
28:Q0:3031:VAL:O	28:Q0:3032:GLN:NE2	2.53	0.40
28:Q1:49:ILE:HD12	28:Q1:84:LEU:HD11	2.03	0.40
28:Q1:823:ARG:HD2	28:Q1:823:ARG:HA	1.86	0.40
25:QE:392:LYS:HA	25:QE:395:LEU:HD12	2.02	0.40
25:QE:392:LYS:HE3	25:QE:392:LYS:HB2	1.99	0.40
25:QG:295:ASP:OD1	25:QG:296:ALA:N	2.54	0.40
24:QJ:238:LEU:HA	24:QJ:238:LEU:HD12	1.84	0.40
25:QM:141:GLY:O	25:QM:184:ASN:ND2	2.51	0.40
29:R0:141:GLN:HG2	29:R0:181:VAL:HG22	2.02	0.40
25:RC:87:PRO:HD3	25:SC:281:TYR:HD2	1.86	0.40
24:RD:5:ILE:HD13	24:RD:125:LEU:HB3	2.03	0.40
25:RG:174:LYS:HG2	25:RG:175:VAL:HG13	2.02	0.40
24:RH:9:ILE:HB	24:RH:139:ASN:HB3	2.01	0.40
25:RI:8:GLN:HE21	25:RI:14:ASN:HA	1.86	0.40
25:RK:296:ALA:HB1	25:RK:305:PRO:HD2	2.02	0.40
25:RK:377:MET:HG2	25:RK:380:ARG:NH1	2.36	0.40
24:RL:20:CYS:O	24:RL:24:TYR:N	2.52	0.40
25:RM:86:ARG:HB3	25:RM:89:ASN:OD1	2.21	0.40
25:RO:290:THR:HG21	25:RO:329:GLN:HB3	2.03	0.40
24:RP:368:LEU:HD23	24:RP:368:LEU:HA	1.86	0.40
24:SF:242:LEU:HD11	24:SF:252:ILE:HG12	2.03	0.40
25:SG:362:LYS:HB3	25:SG:362:LYS:HE3	1.84	0.40
25:SI:73:MET:O	25:SI:77:ARG:N	2.46	0.40
25:SI:171:PRO:HB3	25:SI:181:GLU:HB3	2.03	0.40
24:SJ:9:ILE:HD13	24:SJ:68:LEU:HD11	2.04	0.40
24:SJ:298:PRO:HG3	24:SJ:308:ARG:HH22	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:SN:209:ILE:H	24:SN:209:ILE:HG13	1.73	0.40
24:SN:328:VAL:HG11	24:SN:355:ILE:HD11	2.03	0.40
32:T0:395:THR:HG22	32:T0:432:GLN:OE1	2.21	0.40
24:TB:119:LEU:HD21	24:TB:156:ARG:HB3	2.03	0.40
25:TM:423:GLN:HA	25:TM:426:GLN:HB3	2.03	0.40
24:UF:292:THR:OG1	24:UF:319:TYR:OH	2.32	0.40
24:UJ:72:PRO:HG3	25:UK:1:MET:SD	2.61	0.40
24:UJ:222:PRO:HD2	25:UK:324:LYS:HE2	2.04	0.40
24:UL:188:VAL:HG22	24:UL:425:LEU:HD22	2.03	0.40
24:UL:213:CYS:SG	24:UL:222:PRO:HB3	2.61	0.40
25:UM:68:LEU:HD23	25:UM:143:THR:HG23	2.03	0.40
25:UM:314:SER:HB3	25:UM:368:ILE:HB	2.04	0.40
34:V0:87:VAL:HA	34:V0:93:GLU:H	1.86	0.40
34:V1:193:LEU:HA	34:V1:217:TYR:HA	2.02	0.40
25:VG:14:ASN:ND2	25:VG:72:THR:OG1	2.54	0.40
25:VK:328:GLU:O	25:VK:332:ASN:ND2	2.42	0.40
25:VO:219:THR:HG1	24:VP:326:LYS:HZ3	1.64	0.40
25:WE:293:MET:SD	25:WE:367:PHE:HB2	2.61	0.40
24:WH:9:ILE:HG21	24:WH:149:LEU:HB3	2.03	0.40
24:WH:139:ASN:OD1	24:WH:139:ASN:N	2.54	0.40
25:WO:171:PRO:HG3	25:WO:181:GLU:HB2	2.02	0.40
25:WO:195:ASN:OD1	25:WO:196:ALA:N	2.53	0.40
25:WO:213:ARG:HB2	25:WO:297:LYS:NZ	2.36	0.40
24:XD:356:ASN:OD1	24:XD:357:TYR:N	2.54	0.40
25:XI:177:ASP:O	24:XJ:352:LYS:HA	2.21	0.40
25:XK:256:ASN:ND2	25:XK:350:LYS:HE2	2.37	0.40
24:XL:76:ASP:HA	24:XL:79:ARG:HD2	2.03	0.40
24:XL:180:ALA:HB3	24:XL:183:GLU:HG3	2.03	0.40
24:XL:226:ASN:ND2	24:XL:367:ASP:OD2	2.54	0.40
25:XO:36:TYR:O	25:XO:37:HIS:ND1	2.55	0.40
25:XO:290:THR:HG21	25:XO:329:GLN:HB3	2.04	0.40
40:Y0:154:LEU:HD23	40:Y0:158:MET:HG2	2.02	0.40
40:Y3:437:ILE:HG12	40:Y3:454:LEU:HD11	2.03	0.40
40:Y4:404:ALA:O	40:Y4:409:TRP:HB2	2.21	0.40
40:Y7:154:LEU:HD22	40:Y7:389:ASN:HA	2.02	0.40
40:Y7:416:ARG:HD2	40:Y7:416:ARG:HA	1.72	0.40
24:YF:71:GLU:OE2	25:YG:2:ARG:NH2	2.55	0.40
24:YF:183:GLU:HG2	24:YF:184:PRO:HD3	2.03	0.40
24:YF:203:MET:SD	24:YF:267:PHE:HB3	2.61	0.40
25:YG:7:ILE:HB	25:YG:135:VAL:HG12	2.04	0.40
25:YG:192:LEU:HD22	25:YG:196:ALA:HB2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:YI:175:VAL:HG22	25:YI:176:SER:H	1.86	0.40
25:YK:301:CYS:SG	25:YK:302:ALA:N	2.94	0.40
25:YO:66:MET:HE3	25:YO:116:VAL:HG11	2.03	0.40
25:YO:287:PRO:HD3	25:YO:325:GLU:OE2	2.21	0.40
24:ZB:228:ASN:HD21	44:ZB:501:GTP:HN1	1.69	0.40
25:ZC:378:PHE:HB3	25:ZC:415:MET:HE2	2.02	0.40
24:ZD:209:ILE:H	24:ZD:209:ILE:HG13	1.74	0.40
24:ZD:238:LEU:HD22	24:ZD:378:ILE:HD11	2.03	0.40
24:ZJ:377:MET:SD	24:ZJ:379:SER:HB3	2.60	0.40
25:ZM:178:THR:HG22	24:ZN:352:LYS:HD3	2.03	0.40
25:ZO:42:LEU:HD12	25:ZO:42:LEU:HA	1.96	0.40
25:ZO:60:VAL:HG11	25:ZO:86:ARG:HG3	2.04	0.40
2:1C:1580:VAL:HA	2:1C:1704:VAL:O	2.20	0.40
2:1D:1406:ARG:HG3	2:1D:1408:ASP:H	1.86	0.40
4:2B:227:GLN:NE2	4:2B:260:ASP:OD1	2.54	0.40
14:8A:174:ILE:HD12	14:8A:178:ARG:HH22	1.85	0.40
15:9C:766:HIS:O	15:9C:770:ILE:N	2.50	0.40
16:A1:44:MET:HB3	24:XL:409:VAL:HG11	2.04	0.40
16:A1:97:THR:HG22	24:YL:308:ARG:HD3	2.03	0.40
16:A3:59:THR:HG21	24:XD:108:TYR:HA	2.03	0.40
17:B1:430:ALA:HA	17:B1:433:GLU:OE2	2.20	0.40
18:C0:416:ARG:NH2	18:C0:417:ARG:HG2	2.35	0.40
18:C0:911:VAL:HG11	18:C0:920:VAL:HG13	2.03	0.40
18:C0:1214:LYS:HZ2	18:C0:1218:VAL:HB	1.87	0.40
18:C0:1636:ILE:HD11	18:C0:1674:PHE:HB2	2.02	0.40
18:C3:795:LEU:HD13	18:C3:813:VAL:HA	2.02	0.40
18:C3:902:ARG:HH22	18:C3:908:ARG:HD3	1.85	0.40
18:C3:1627:HIS:O	18:C3:1920:TRP:NE1	2.55	0.40
19:D0:54:VAL:O	19:D0:58:GLN:HG3	2.21	0.40
19:D2:394:ASP:HA	19:D2:397:LYS:HE3	2.03	0.40
21:F0:516:GLU:HA	21:F0:517:PRO:HA	1.95	0.40
19:G0:56:SER:HA	19:G0:59:GLN:HE21	1.86	0.40
19:G1:34:ILE:HG13	19:G1:71:TYR:CD1	2.56	0.40
19:G1:349:GLU:HB3	19:G1:352:LEU:HD12	2.02	0.40
19:G3:237:ALA:HB2	19:G3:247:VAL:HG21	2.02	0.40
19:H2:306:ALA:O	19:H2:310:ARG:HG3	2.21	0.40
19:H5:100:LYS:HE3	19:H5:136:GLU:OE1	2.21	0.40
19:H7:436:GLN:HA	19:H7:443:ASN:HA	2.02	0.40
19:J3:139:PRO:O	19:J3:143:GLU:HG2	2.21	0.40
19:K2:88:LEU:HD11	19:K2:106:CYS:HB3	2.04	0.40
19:K2:179:PRO:HA	19:K2:184:LYS:NZ	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:K2:242:ASP:OD1	19:K2:243:LEU:N	2.54	0.40
19:L0:203:GLN:HA	19:L0:206:VAL:HG12	2.03	0.40
19:L1:203:GLN:HA	19:L1:206:VAL:HG22	2.03	0.40
19:L2:10:PHE:HE1	19:L3:45:LEU:HD12	1.85	0.40
19:L2:238:LYS:HB2	19:L2:238:LYS:HE3	1.87	0.40
19:L2:498:LEU:HD23	19:L2:501:LYS:HD2	2.03	0.40
19:L3:269:LYS:HA	19:L3:269:LYS:HD2	1.76	0.40
22:M0:820:GLN:NE2	28:Q0:680:GLU:OE2	2.44	0.40
22:M1:776:LEU:HA	22:M1:776:LEU:HD23	1.87	0.40
25:NE:189:VAL:HA	25:NE:192:LEU:HB2	2.03	0.40
24:NF:265:ILE:HG23	24:NF:432:PHE:CZ	2.56	0.40
25:NG:114:ASP:N	25:NG:114:ASP:OD1	2.54	0.40
25:NG:161:ASP:O	25:NG:251:ARG:NH2	2.54	0.40
26:O0:363:GLU:O	26:O0:367:ARG:HG2	2.21	0.40
26:O0:389:GLN:HA	26:O0:392:VAL:HG22	2.04	0.40
24:OF:101:ASN:HD22	24:OF:186:ASN:ND2	2.19	0.40
24:OF:255:PHE:O	24:OF:259:LEU:HD23	2.22	0.40
24:OF:318:MET:HB2	24:OF:376:CYS:HB3	2.03	0.40
25:OG:257:LEU:O	25:OG:370:ASN:ND2	2.54	0.40
24:OH:415:GLU:OE1	24:OH:415:GLU:N	2.53	0.40
25:OI:234:SER:OG	25:OI:241:ARG:NH2	2.54	0.40
25:OI:257:LEU:O	25:OI:312:THR:OG1	2.30	0.40
24:OJ:202:VAL:HA	24:OJ:268:MET:HB2	2.02	0.40
25:OK:63:ALA:O	25:OK:89:ASN:ND2	2.49	0.40
24:OL:313:MET:HB2	24:OL:380:ASN:HB3	2.02	0.40
24:ON:26:LEU:HD23	24:ON:26:LEU:HA	1.91	0.40
24:ON:259:LEU:HD23	24:ON:268:MET:HG2	2.03	0.40
25:OO:21:TRP:HE1	25:OO:63:ALA:HB2	1.86	0.40
25:OQ:18:ALA:HB2	25:OQ:76:VAL:HG23	2.02	0.40
25:PC:156:ARG:NH2	25:PC:197:ASP:OD1	2.51	0.40
25:PC:272:PRO:HG3	25:PC:364:SER:HA	2.02	0.40
25:PC:324:LYS:HG3	25:PC:325:GLU:OE2	2.21	0.40
24:PD:222:PRO:O	25:PE:322:SER:OG	2.39	0.40
25:PE:67:ASP:OD1	25:PE:68:LEU:N	2.54	0.40
25:PK:102:ALA:HB1	25:PK:401:GLU:HB2	2.02	0.40
24:PL:403:ALA:HB1	25:PM:259:PRO:HB3	2.02	0.40
25:PM:30:ILE:HD12	25:PM:59:TYR:HB2	2.02	0.40
25:PM:67:ASP:OD2	25:PM:67:ASP:N	2.54	0.40
24:PN:215:ARG:HH12	24:PN:299:ALA:HB3	1.86	0.40
25:PO:220:PRO:HD2	24:PP:326:LYS:NZ	2.36	0.40
24:PP:187:SER:HB2	24:PP:391:LEU:HD21	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:PP:207:GLU:HA	24:PP:210:TYR:HB2	2.04	0.40
25:PQ:267:MET:SD	25:PQ:267:MET:N	2.94	0.40
28:Q0:927:ALA:HB1	28:Q0:978:LEU:HD23	2.03	0.40
28:Q0:2454:VAL:HG11	28:Q0:2511:LEU:HD13	2.03	0.40
28:Q0:2464:GLU:OE2	28:Q0:2467:ARG:NH2	2.54	0.40
28:Q1:1157:LEU:HD23	28:Q1:1157:LEU:HA	1.91	0.40
28:Q1:1653:ASP:OD1	28:Q1:1654:ALA:N	2.55	0.40
28:Q1:2436:PRO:HB2	28:Q1:2437:GLY:H	1.66	0.40
25:QI:61:PRO:HD3	25:QI:84:ILE:HG22	2.03	0.40
25:QI:114:ASP:N	25:QI:114:ASP:OD1	2.53	0.40
25:QI:117:LEU:HD11	25:QI:154:LYS:HD2	2.04	0.40
25:QK:379:LYS:HZ2	25:QK:419:VAL:HG13	1.85	0.40
24:QN:425:LEU:O	24:QN:429:GLU:HG2	2.22	0.40
25:RC:44:LEU:HA	25:RC:47:ILE:HD11	2.02	0.40
25:RG:313:ALA:HA	25:RG:369:GLY:HA2	2.03	0.40
24:RH:123:ARG:HA	24:RH:123:ARG:HD2	1.83	0.40
24:RJ:11:GLN:NE2	24:RJ:15:GLN:OE1	2.55	0.40
25:RK:246:LEU:HD12	25:RK:246:LEU:HA	1.95	0.40
24:SB:160:ASP:N	24:SB:160:ASP:OD1	2.54	0.40
25:SC:248:ALA:HA	25:SC:252:LYS:HG2	2.03	0.40
24:SD:275:ILE:HG23	24:SD:368:LEU:HD21	2.03	0.40
25:SE:28:HIS:CE1	25:SE:241:ARG:HD2	2.54	0.40
25:SG:31:ASP:OD1	25:SG:35:THR:N	2.54	0.40
24:SJ:9:ILE:HD11	24:SJ:153:LEU:HD23	2.03	0.40
25:SM:99:ASN:ND2	25:SM:141:GLY:HA2	2.36	0.40
25:SM:379:LYS:HB2	25:SM:419:VAL:HG21	2.03	0.40
24:SN:224:TYR:CG	25:SO:323:THR:HG21	2.56	0.40
25:SO:209:ASP:HB3	25:SO:213:ARG:HH21	1.85	0.40
24:SP:320:ARG:HG3	24:SP:356:ASN:HB3	2.03	0.40
24:SP:339:ARG:O	24:SP:339:ARG:NH1	2.54	0.40
24:SP:359:PRO:HA	24:SP:360:PRO:HD3	1.96	0.40
32:T0:372:LEU:HD21	32:T0:425:VAL:HG21	2.03	0.40
25:TE:267:MET:HG3	25:TE:299:MET:SD	2.62	0.40
25:TG:286:VAL:HG23	25:TG:287:PRO:HD3	2.02	0.40
24:TH:7:ILE:HG23	24:TH:66:ILE:HD11	2.04	0.40
25:TK:403:MET:HG2	25:TK:407:GLU:OE2	2.21	0.40
24:TL:109:THR:HG22	24:TL:110:ILE:HG23	2.02	0.40
25:TO:156:ARG:HD3	25:TO:160:PRO:HA	2.04	0.40
25:UE:282:ARG:HA	25:UE:282:ARG:HD3	1.82	0.40
24:UJ:25:CYS:HB3	24:UJ:30:ILE:O	2.21	0.40
25:UK:207:LEU:HD22	25:UK:300:MET:HB3	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:UL:210:TYR:CD1	24:UL:227:LEU:HD21	2.56	0.40
25:UM:51:PHE:HB3	25:UM:59:TYR:HB3	2.03	0.40
25:VK:54:ALA:HA	25:WK:283:ALA:HB2	2.03	0.40
25:VM:128:ASP:OD1	25:VM:128:ASP:N	2.45	0.40
24:VP:50:ASN:O	24:VP:64:ARG:NH1	2.54	0.40
25:WC:203:ASP:OD2	25:WC:302:ALA:N	2.54	0.40
25:WE:199:CYS:O	25:WE:266:PHE:N	2.48	0.40
24:WF:141:VAL:O	24:WF:147:SER:OG	2.39	0.40
25:WG:179:VAL:HG23	24:WH:350:GLY:HA2	2.03	0.40
25:WI:330:MET:HB3	25:WI:349:VAL:HG11	2.02	0.40
24:WJ:122:ILE:HD13	24:WJ:122:ILE:HA	1.90	0.40
24:WL:33:ASP:OD2	24:WL:34:GLY:N	2.54	0.40
25:WO:205:GLU:HA	25:WO:208:TYR:HB2	2.02	0.40
25:WO:319:GLY:N	25:WO:354:CYS:O	2.49	0.40
39:X3:817:GLU:H	40:Y6:25:LYS:HE3	1.87	0.40
25:XC:64:ILE:HA	25:XC:89:ASN:HB3	2.03	0.40
24:XD:7:ILE:HG22	24:XD:66:ILE:HB	2.02	0.40
24:XD:54:SER:HB3	24:XD:62:VAL:HG23	2.03	0.40
24:XF:208:ALA:HB2	24:XF:304:LYS:HG2	2.03	0.40
24:XF:387:ILE:HD13	24:XF:390:ARG:HH22	1.86	0.40
24:XH:286:LEU:HD23	24:XH:286:LEU:HA	1.85	0.40
24:XJ:408:TYR:HD2	24:XJ:418:PHE:HZ	1.69	0.40
25:XK:317:PHE:HB3	25:XK:321:MET:SD	2.61	0.40
25:XO:285:THR:O	25:XO:289:LEU:N	2.49	0.40
40:Y1:219:SER:OG	40:Y1:458:GLU:OE2	2.38	0.40
40:Y2:89:GLU:HG2	40:Y2:390:GLN:HG3	2.02	0.40
40:Y4:4:GLN:HA	40:Y4:7:ILE:HD13	2.02	0.40
40:Y6:214:PRO:HA	40:Y6:282:VAL:HA	2.02	0.40
24:YD:231:ILE:HD13	24:YD:231:ILE:HA	1.92	0.40
24:YP:69:ASP:OD1	24:YP:70:LEU:N	2.55	0.40
24:YP:273:ALA:HB3	24:YP:375:VAL:HB	2.02	0.40
41:Z1:61:ALA:HA	41:Z1:268:ARG:NH1	2.36	0.40
41:Z2:551:TYR:HE2	41:Z2:605:LEU:HB3	1.85	0.40
41:Z3:258:ASP:OD1	41:Z3:258:ASP:N	2.47	0.40
25:ZE:294:TRP:NE1	25:ZE:333:VAL:HG11	2.37	0.40
24:ZL:93:ILE:HD11	24:ZL:121:ARG:HG3	2.03	0.40
24:ZL:349:THR:O	24:ZL:349:THR:OG1	2.40	0.40
24:ZN:223:THR:HG23	24:ZN:225:THR:H	1.87	0.40
2:1A:1607:VAL:HA	2:1A:1608:PRO:HD3	1.86	0.40
2:1B:184:ASP:O	2:1B:1534:ARG:NH1	2.54	0.40
2:1C:1701:LEU:HD22	2:1C:1922:TRP:HD1	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1D:1557:LEU:HB3	2:1D:1963:LEU:HD22	2.04	0.40
2:1D:1908:VAL:HA	2:1D:1911:PHE:HD2	1.85	0.40
2:1D:2148:ARG:NH2	2:1D:2153:ARG:HH21	2.20	0.40
14:8B:59:TRP:CH2	25:XK:217:LEU:HD11	2.56	0.40
14:8B:70:LEU:HD21	24:WL:2:ARG:HG2	2.03	0.40
14:8C:258:GLU:HA	14:8C:261:ARG:HG2	2.04	0.40
16:A0:188:TYR:O	16:A0:192:ILE:HG12	2.22	0.40
17:B0:539:LEU:HB2	24:SP:298:PRO:HD3	2.03	0.40
17:B2:455:ARG:HH21	25:RC:110:ALA:HB3	1.87	0.40
18:C0:632:MET:HB3	18:C0:636:GLN:HE22	1.86	0.40
18:C0:817:LEU:HG	18:C0:903:ARG:HG2	2.03	0.40
18:C1:615:ARG:HD2	18:C1:616:ARG:HH11	1.87	0.40
19:D1:143:GLU:OE1	19:D1:186:ILE:HD13	2.22	0.40
19:D2:298:LEU:HB3	19:D2:317:LEU:HD21	2.03	0.40
19:D4:296:GLY:HA2	19:D4:299:VAL:HG12	2.03	0.40
20:E0:65:MET:HA	20:E0:68:ALA:HB3	2.04	0.40
20:E3:376:LEU:HD23	20:E3:376:LEU:HA	1.94	0.40
19:G0:182:SER:HA	19:G0:185:ARG:HG2	2.02	0.40
19:G2:405:LYS:HE2	19:G2:405:LYS:HB2	1.75	0.40
19:G5:268:LYS:HB3	19:G5:301:TYR:CE1	2.49	0.40
19:H3:74:ASP:OD1	19:H3:74:ASP:N	2.54	0.40
19:H5:13:TYR:CE1	19:H5:17:ARG:HD2	2.56	0.40
19:K0:170:PRO:HA	19:K0:173:VAL:HG12	2.03	0.40
19:L0:101:GLN:HE22	19:L0:141:VAL:N	2.20	0.40
19:L1:240:SER:OG	19:L1:242:ASP:OD1	2.27	0.40
19:L1:488:LYS:H	19:L1:488:LYS:HG3	1.61	0.40
25:NC:114:ASP:OD2	25:NC:115:SER:N	2.55	0.40
25:NE:405:GLU:HA	25:NE:408:PHE:HD2	1.84	0.40
24:NH:130:THR:OG1	24:NH:131:GLY:N	2.54	0.40
24:NH:206:ASN:HB3	24:NH:210:TYR:HE2	1.85	0.40
25:NI:336:LYS:HD3	25:NI:336:LYS:HA	1.92	0.40
24:NL:185:TYR:HE2	24:NL:404:PHE:HB2	1.86	0.40
25:NM:109:GLY:O	25:NM:113:ILE:HG12	2.21	0.40
26:O0:377:GLN:O	26:O0:381:ILE:HG12	2.20	0.40
25:OI:174:LYS:HD3	25:OI:174:LYS:HA	1.76	0.40
25:OK:144:GLY:N	46:OK:501:GDP:O2B	2.54	0.40
25:PK:237:THR:HG23	25:PK:241:ARG:HH11	1.86	0.40
25:PM:165:LEU:HD13	25:PM:167:PHE:CZ	2.56	0.40
25:PM:190:HIS:HD2	25:PM:411:ALA:HA	1.87	0.40
25:PO:166:THR:HG21	25:PO:192:LEU:HD11	2.03	0.40
28:Q0:863:MET:HE3	28:Q0:863:MET:O	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:Q0:1362:GLU:HA	28:Q0:1516:VAL:HG11	2.03	0.40
24:QD:238:LEU:HD13	24:QD:378:ILE:HD12	2.03	0.40
25:QE:106:TYR:HE2	25:QE:403:MET:HB3	1.86	0.40
25:QE:391:ARG:O	24:QF:262:TYR:OH	2.39	0.40
24:QF:255:PHE:HZ	24:QF:378:ILE:HG21	1.86	0.40
25:QG:7:ILE:HG12	25:QG:64:ILE:HD13	2.03	0.40
25:QG:204:ASN:O	25:QG:208:TYR:N	2.43	0.40
25:QK:390:ARG:HH12	25:QK:391:ARG:HH21	1.67	0.40
25:QM:183:TYR:OH	25:QM:388:MET:O	2.39	0.40
24:QP:119:LEU:HA	24:QP:122:ILE:HB	2.04	0.40
25:RC:403:MET:HB3	25:RC:408:PHE:HE2	1.85	0.40
25:RG:326:VAL:O	25:RG:330:MET:HG2	2.20	0.40
25:RI:100:ASN:ND2	25:RI:401:GLU:OE2	2.54	0.40
24:RJ:101:ASN:ND2	24:RJ:143:GLY:HA2	2.36	0.40
24:RJ:298:PRO:HG3	24:RJ:308:ARG:HH21	1.86	0.40
25:RM:294:TRP:NE1	25:RM:333:VAL:HG11	2.37	0.40
25:RM:378:PHE:HD2	25:RM:422:TYR:HE2	1.67	0.40
30:S2:45:ARG:HA	30:S2:45:ARG:HD3	1.82	0.40
25:SC:232:VAL:O	25:SC:236:ILE:HG12	2.22	0.40
24:SD:181:VAL:HA	25:SE:350:LYS:HZ2	1.86	0.40
24:SD:313:MET:HG2	24:SD:344:VAL:HG11	2.04	0.40
25:SE:33:THR:O	25:SE:58:ARG:NH1	2.41	0.40
24:SH:332:VAL:HG13	24:SH:351:PHE:CD1	2.57	0.40
25:SI:140:GLY:O	25:SI:184:ASN:ND2	2.47	0.40
25:SO:105:HIS:CE1	25:SO:150:LEU:HB3	2.55	0.40
24:SP:231:ILE:O	24:SP:235:ILE:HG12	2.21	0.40
32:T2:553:ARG:NE	24:YD:263:PRO:HB3	2.37	0.40
24:TD:310:GLY:HA3	24:TD:383:ALA:HB2	2.04	0.40
24:TD:345:ASP:N	24:TD:345:ASP:OD1	2.53	0.40
25:TE:253:LEU:HD21	25:TE:316:LEU:HD21	2.03	0.40
25:TG:173:PRO:HB3	25:TG:380:ARG:HD2	2.02	0.40
25:TI:156:ARG:HA	25:TI:156:ARG:HD3	1.90	0.40
25:TI:184:ASN:OD1	25:TI:398:TYR:OH	2.39	0.40
25:TI:213:ARG:HE	25:TI:213:ARG:HB2	1.60	0.40
25:TI:236:ILE:HD12	25:TI:368:ILE:HD11	2.02	0.40
25:TM:28:HIS:CE1	25:TM:241:ARG:HB3	2.57	0.40
25:TM:334:GLN:HE22	25:TM:347:ASN:HA	1.87	0.40
25:TO:5:VAL:HG22	25:TO:62:ARG:HD3	2.04	0.40
24:TP:112:LYS:HD2	24:TP:152:LEU:HD21	2.03	0.40
24:TP:302:MET:H	24:TP:302:MET:HG2	1.74	0.40
24:UB:179:THR:HG1	44:UB:501:GTP:HO3'	1.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:UC:19:LYS:HA	25:UC:19:LYS:HD3	1.77	0.40
25:UC:334:GLN:HE21	25:UC:334:GLN:HB3	1.69	0.40
24:UD:206:ASN:OD1	44:UD:501:GTP:O2'	2.36	0.40
24:UF:210:TYR:HE1	24:UF:227:LEU:HD21	1.86	0.40
24:UF:239:THR:OG1	24:UF:242:LEU:HD12	2.21	0.40
25:UG:293:MET:HG3	25:UG:367:PHE:HB2	2.02	0.40
25:UI:52:ASN:OD1	25:UI:62:ARG:NE	2.46	0.40
25:UK:187:LEU:HD21	25:UK:408:PHE:CE1	2.55	0.40
25:UK:416:ASN:HA	25:UK:419:VAL:HG12	2.02	0.40
24:UN:248:LEU:HD12	24:UN:248:LEU:HA	1.91	0.40
24:VB:319:TYR:O	24:VB:356:ASN:N	2.46	0.40
25:VC:3:GLU:OE1	25:VC:3:GLU:N	2.53	0.40
25:VC:64:ILE:HA	25:VC:89:ASN:HB3	2.02	0.40
25:VC:95:THR:O	24:VD:2:ARG:NH2	2.55	0.40
24:VF:274:PRO:HD3	24:VF:291:ILE:HB	2.03	0.40
25:VG:32:PRO:HD3	25:VG:81:TYR:CZ	2.56	0.40
25:VG:292:GLN:HG2	25:VG:298:ASN:ND2	2.36	0.40
25:VI:7:ILE:HD13	25:VI:151:LEU:HD21	2.03	0.40
25:VK:69:GLU:HG2	25:VK:71:GLY:H	1.86	0.40
25:VK:256:ASN:O	25:VK:312:THR:HG21	2.22	0.40
25:VO:312:THR:HA	25:VO:348:ASN:HB3	2.03	0.40
24:WB:134:GLY:HA3	24:WB:252:ILE:HG21	2.03	0.40
24:WB:251:ASP:H	24:WB:254:GLU:HB2	1.85	0.40
25:WE:58:ARG:HH22	25:XE:281:TYR:HE1	1.69	0.40
24:WH:205:ASP:HB3	24:WH:303:VAL:HA	2.02	0.40
24:WL:116:ASP:N	24:WL:116:ASP:OD2	2.53	0.40
24:WL:232:ALA:HA	24:WL:235:ILE:HG22	2.03	0.40
39:X0:169:SER:HB2	39:X0:192:ASP:HB3	2.02	0.40
39:X2:195:HIS:N	39:X2:216:GLY:O	2.40	0.40
39:X2:229:LEU:HB3	39:X2:232:LEU:HD23	2.03	0.40
25:XC:58:ARG:HA	25:XC:58:ARG:HD2	1.96	0.40
25:XC:203:ASP:OD2	25:XC:302:ALA:N	2.55	0.40
25:XI:415:MET:HA	25:XI:418:LEU:HB3	2.02	0.40
25:XM:292:GLN:HG2	25:XM:298:ASN:ND2	2.36	0.40
24:XN:122:ILE:HD13	24:XN:122:ILE:HA	1.89	0.40
40:Y1:46:GLU:OE2	40:Y1:71:ARG:NH1	2.53	0.40
40:Y2:401:VAL:HG21	40:Y2:432:LEU:HD13	2.04	0.40
24:YD:142:GLY:HA2	24:YD:183:GLU:HB2	2.03	0.40
25:YE:204:ASN:OD1	46:YE:501:GDP:O2'	2.32	0.40
25:YI:207:LEU:HB3	25:YI:225:LEU:HD22	2.03	0.40
25:YI:392:LYS:HG2	25:YI:395:LEU:HD13	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:YK:391:ARG:HD3	25:YK:391:ARG:HA	1.78	0.40
24:YL:213:CYS:HB3	24:YL:219:ILE:HD11	2.03	0.40
25:YM:259:PRO:HG2	25:YM:311:LEU:HD23	2.04	0.40
25:YM:326:VAL:HG22	25:YM:351:SER:HB2	2.03	0.40
25:YO:207:LEU:HD22	25:YO:300:MET:HB3	2.02	0.40
24:YP:161:TYR:HB3	24:YP:164:LYS:HD3	2.02	0.40
41:Z0:208:GLY:O	41:Z0:236:GLY:N	2.53	0.40
41:Z2:204:PHE:HB3	41:Z2:342:LEU:HD13	2.03	0.40
41:Z2:241:GLU:HA	41:Z2:244:VAL:HB	2.03	0.40
41:Z2:349:ILE:HG13	41:Z2:352:VAL:HG22	2.04	0.40
25:ZC:141:GLY:O	25:ZC:145:SER:OG	2.29	0.40
24:ZD:273:ALA:HB2	24:ZD:295:ALA:HB2	2.02	0.40
25:ZE:2:ARG:HE	25:ZE:2:ARG:HB2	1.80	0.40
24:ZF:359:PRO:HA	24:ZF:360:PRO:HD3	1.97	0.40
24:ZH:5:ILE:HD12	24:ZH:125:LEU:HB3	2.03	0.40
24:ZH:407:TRP:CD1	25:ZI:255:VAL:HG23	2.56	0.40
2:1A:2056:ALA:O	2:1A:2095:TYR:HA	2.21	0.40
2:1A:2148:ARG:NH2	2:1A:2153:ARG:HH21	2.19	0.40
2:1B:2481:TRP:CZ2	18:C1:1181:LEU:HD21	2.57	0.40
7:2L:219:GLU:O	7:2L:223:ALA:N	2.51	0.40
16:A0:160:LEU:HD12	16:A0:160:LEU:HA	1.86	0.40
16:A1:31:ARG:NH1	25:XM:262:ARG:HD2	2.34	0.40
16:A1:129:SER:HA	25:YK:297:LYS:NZ	2.37	0.40
16:A2:98:LEU:HD12	16:A2:98:LEU:HA	1.87	0.40
16:A3:150:ASN:HB3	16:A3:154:ARG:NH1	2.34	0.40
17:B1:601:ARG:NH2	24:RF:420:GLU:OE2	2.51	0.40
18:C0:569:ILE:O	18:C0:573:LEU:HG	2.21	0.40
18:C0:1253:LEU:HD13	18:C0:1495:VAL:HG13	2.03	0.40
18:C1:365:ALA:HA	18:C1:368:LYS:NZ	2.37	0.40
18:C1:416:ARG:NE	18:C1:419:ARG:HH12	2.20	0.40
18:C2:931:LEU:HG	18:C2:935:LYS:NZ	2.36	0.40
18:C2:1191:ALA:HB1	18:C2:1195:ARG:NH1	2.36	0.40
18:C2:1526:ASP:OD2	18:C2:1529:SER:OG	2.39	0.40
18:C3:256:ARG:NH1	18:C3:257:ARG:HH22	2.20	0.40
18:C3:916:PRO:HD2	18:C3:916:PRO:O	2.20	0.40
19:D1:335:LYS:HD3	19:D1:335:LYS:O	2.21	0.40
20:E0:419:CYS:SG	24:UJ:130:THR:HG21	2.61	0.40
20:E2:442:LYS:HE3	20:E2:443:TYR:HE1	1.87	0.40
21:F1:101:PRO:HD3	21:F1:165:ARG:NH1	2.36	0.40
21:F2:53:ASP:OD1	21:F2:53:ASP:N	2.54	0.40
21:F3:149:ALA:HB3	21:F3:152:MET:HG3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:G0:50:LEU:HD12	19:G0:58:GLN:HG2	2.02	0.40
19:G1:24:VAL:HG11	19:G1:46:LEU:HD11	2.02	0.40
19:G2:223:ALA:HA	19:G2:226:LYS:HE2	2.04	0.40
19:G3:156:ASN:HB3	19:G3:159:LEU:HG	2.03	0.40
19:G4:352:LEU:HD23	19:G4:352:LEU:HA	1.86	0.40
19:G4:386:LEU:HD22	19:G4:397:LYS:HG3	2.03	0.40
19:H2:225:LEU:HA	19:H2:225:LEU:HD13	1.93	0.40
19:H5:237:ALA:HB2	19:H5:247:VAL:HG21	2.03	0.40
19:H6:218:VAL:HG13	19:H6:226:LYS:HE3	2.03	0.40
19:H7:395:ASP:OD1	19:H7:395:ASP:N	2.54	0.40
19:J0:262:PHE:HA	19:J0:263:PRO:HD3	1.88	0.40
19:J3:111:ALA:HB2	19:J3:121:VAL:HG21	2.04	0.40
19:J3:210:ALA:O	19:J3:214:LEU:CB	2.69	0.40
19:K0:46:LEU:HD13	19:K0:49:LEU:HD12	2.03	0.40
19:K0:275:VAL:HG11	19:K0:298:LEU:HD21	2.03	0.40
19:K0:369:ASP:HA	19:K0:372:LYS:HD3	2.03	0.40
19:K2:395:ASP:OD2	19:K2:395:ASP:N	2.52	0.40
19:K3:318:GLY:HA3	19:K3:359:THR:HG22	2.03	0.40
19:L2:178:GLU:HA	19:L2:179:PRO:HD3	1.90	0.40
19:L2:424:GLN:HB3	19:L2:453:HIS:ND1	2.36	0.40
19:L3:174:LEU:HA	19:L3:177:GLN:HG2	2.04	0.40
22:M0:927:VAL:HA	22:M0:930:ARG:HG2	2.03	0.40
22:M1:726:PRO:HB2	28:Q1:2900:LEU:HD23	2.04	0.40
24:ND:8:HIS:HA	24:ND:138:PHE:HB2	2.02	0.40
25:NE:178:THR:OG1	25:NE:179:VAL:N	2.54	0.40
25:NE:375:GLN:HB3	25:NE:422:TYR:HD2	1.87	0.40
24:NF:105:ARG:HA	24:NF:109:THR:HB	2.03	0.40
24:NF:318:MET:HE1	24:NF:354:GLY:HA3	2.04	0.40
25:NG:143:THR:O	25:NG:147:MET:HB3	2.22	0.40
24:NH:9:ILE:HG22	24:NH:146:GLY:HA2	2.04	0.40
24:NH:283:HIS:ND1	24:ZH:89:PRO:HD3	2.37	0.40
24:NH:328:VAL:HG11	24:NH:355:ILE:HD11	2.03	0.40
24:NJ:267:PHE:HB2	24:NJ:384:ILE:HD12	2.02	0.40
25:NM:67:ASP:OD2	25:NM:67:ASP:N	2.55	0.40
25:NM:319:GLY:HA2	25:NM:357:PRO:HD3	2.03	0.40
24:NN:336:LYS:HB3	24:NN:336:LYS:HE2	1.76	0.40
25:OE:113:ILE:HA	25:OE:116:VAL:HG22	2.03	0.40
24:OH:73:THR:HA	25:OI:46:ARG:HH21	1.87	0.40
24:OP:66:ILE:HG22	24:OP:91:GLN:OE1	2.22	0.40
25:PE:177:ASP:O	24:PF:352:LYS:HA	2.22	0.40
24:PH:387:ILE:HD13	24:PH:390:ARG:HH12	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:PH:501:GTP:O3G	25:PI:252:LYS:NZ	2.37	0.40
24:PP:88:HIS:HB3	24:PP:91:GLN:HE22	1.86	0.40
24:PP:174:SER:HB3	24:PP:177:VAL:O	2.22	0.40
28:Q0:2071:LEU:HD23	28:Q0:2142:VAL:HG11	2.03	0.40
28:Q0:2579:ARG:HG3	29:R0:9:GLN:HG3	2.03	0.40
28:Q1:951:CYS:HA	28:Q1:994:LEU:O	2.20	0.40
28:Q1:1158:VAL:O	28:Q1:1161:MET:HB3	2.21	0.40
28:Q1:2315:VAL:HG13	28:Q1:2825:VAL:HG11	2.04	0.40
24:QD:162:GLY:HA2	33:U0:68:ARG:NH2	2.36	0.40
24:QD:192:HIS:ND1	24:QD:424:ASP:OD2	2.44	0.40
24:QD:322:ASP:HB3	24:QD:373:ARG:HH21	1.87	0.40
24:QJ:88:HIS:CD2	24:RJ:280:LYS:HZ2	2.40	0.40
24:QJ:238:LEU:HD11	24:QJ:255:PHE:CE2	2.56	0.40
25:QK:171:PRO:HB3	25:QK:181:GLU:HB3	2.03	0.40
24:QL:249:ASN:OD1	24:QL:249:ASN:N	2.54	0.40
25:QM:8:GLN:HB2	25:QM:65:LEU:HD23	2.02	0.40
25:QM:238:CYS:SG	25:QM:318:ARG:HD3	2.61	0.40
24:QN:209:ILE:HG23	24:QN:230:LEU:HD11	2.03	0.40
24:QP:88:HIS:HA	24:QP:89:PRO:HD3	1.96	0.40
24:RD:3:GLU:OE2	24:RD:130:THR:N	2.55	0.40
24:RD:335:ILE:HG13	24:RD:341:ILE:HD13	2.04	0.40
24:RF:168:GLY:O	24:RF:202:VAL:N	2.35	0.40
25:RG:247:ASN:O	25:RG:252:LYS:NZ	2.52	0.40
25:RI:65:LEU:HD13	25:RI:90:PHE:HE1	1.87	0.40
24:RP:70:LEU:HB3	24:RP:98:ASP:HA	2.04	0.40
30:S3:43:THR:O	24:XB:47:ASP:N	2.54	0.40
25:SC:397:TRP:CZ2	24:SD:256:GLN:HB3	2.56	0.40
24:SD:130:THR:OG1	24:SD:131:GLY:N	2.54	0.40
25:SE:193:VAL:HA	25:SE:264:HIS:CE1	2.57	0.40
25:SK:164:MET:HE2	25:SK:164:MET:HB2	2.00	0.40
25:SK:396:HIS:HA	25:SK:399:THR:HG22	2.03	0.40
24:SL:107:HIS:HB3	24:SL:108:TYR:CD1	2.57	0.40
24:SL:254:GLU:O	24:SL:258:ASN:ND2	2.55	0.40
32:T2:384:VAL:HG21	32:T2:390:ALA:HB2	2.04	0.40
25:TC:219:THR:HA	24:TD:326:LYS:HE3	2.03	0.40
25:TC:324:LYS:O	25:TC:327:ASP:N	2.54	0.40
24:TH:238:LEU:HA	24:TH:318:MET:HE1	2.03	0.40
24:TJ:88:HIS:HB3	24:TJ:91:GLN:HE22	1.86	0.40
24:TJ:223:THR:OG1	24:TJ:224:TYR:N	2.55	0.40
25:TM:313:ALA:HB1	25:TM:367:PHE:HE1	1.87	0.40
25:UC:55:THR:HG23	25:VC:283:ALA:HA	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:UE:31:ASP:OD1	25:UE:35:THR:N	2.54	0.40
25:UE:155:ILE:HD12	25:UE:155:ILE:HA	1.99	0.40
24:UH:8:HIS:HB3	24:UH:14:ILE:HG22	2.03	0.40
25:UK:320:ARG:HA	25:UK:320:ARG:HD2	1.85	0.40
24:UL:71:GLU:HG3	25:UM:2:ARG:HH22	1.86	0.40
24:UL:210:TYR:CE1	25:UM:324:LYS:HB2	2.57	0.40
25:UM:131:GLN:HG3	25:UM:250:LEU:HD12	2.03	0.40
24:VF:60:LYS:HA	24:VF:60:LYS:HD2	1.87	0.40
24:VH:149:LEU:HA	24:VH:149:LEU:HD12	1.87	0.40
25:VM:396:HIS:HA	25:VM:399:THR:HG22	2.03	0.40
25:VO:105:HIS:HD2	25:VO:106:TYR:CZ	2.39	0.40
25:VO:177:ASP:O	24:VP:352:LYS:HD2	2.22	0.40
35:W0:1506:GLU:HA	35:W0:1578:VAL:HA	2.04	0.40
25:WA:3:GLU:HG2	25:WA:127:CYS:HB2	2.03	0.40
25:WA:270:PHE:CE2	25:WA:272:PRO:HD2	2.57	0.40
24:WB:206:ASN:HD21	44:WB:501:GTP:HN22	1.70	0.40
25:WE:141:GLY:O	25:WE:184:ASN:ND2	2.52	0.40
25:WE:420:SER:O	25:WE:424:GLN:N	2.49	0.40
25:WI:248:ALA:HA	25:WI:252:LYS:HD2	2.03	0.40
25:WI:392:LYS:HG2	25:WI:395:LEU:HD13	2.03	0.40
39:X1:266:ARG:HH21	39:X1:508:TRP:HA	1.87	0.40
25:XE:31:ASP:OD1	25:XE:35:THR:N	2.54	0.40
25:XG:207:LEU:HD13	25:XG:225:LEU:HB3	2.03	0.40
25:XK:21:TRP:CH2	25:XK:50:TYR:HB3	2.56	0.40
25:XM:198:GLU:HG3	25:XM:258:ILE:HD11	2.04	0.40
24:XN:186:ASN:HD22	24:XN:186:ASN:HA	1.70	0.40
24:XN:209:ILE:HG23	24:XN:230:LEU:HD11	2.03	0.40
40:Y0:207:MET:HE1	40:Y0:288:VAL:HG22	2.04	0.40
40:Y2:57:ASP:OD1	40:Y2:61:ASN:N	2.55	0.40
40:Y6:15:LYS:H	40:Y6:15:LYS:HG2	1.71	0.40
40:Y6:55:ILE:O	40:Y6:63:THR:N	2.47	0.40
24:YD:318:MET:HB2	24:YD:376:CYS:HB3	2.03	0.40
25:YE:293:MET:HE3	25:YE:367:PHE:HB2	2.02	0.40
25:YG:11:GLN:HA	25:YG:72:THR:HG21	2.04	0.40
25:YI:334:GLN:OE1	25:YI:348:ASN:N	2.54	0.40
25:YK:200:MET:SD	25:YK:368:ILE:HD12	2.61	0.40
25:YM:112:LEU:HD12	25:YM:112:LEU:HA	1.94	0.40
25:YO:377:MET:HG3	25:YO:380:ARG:NH2	2.36	0.40
41:Z0:179:GLU:HG2	41:Z0:375:VAL:HG11	2.02	0.40
41:Z2:163:LYS:NZ	41:Z2:491:ILE:HG13	2.36	0.40
41:Z2:531:TYR:HB2	41:Z2:532:LYS:HZ2	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:Z3:145:LYS:HD2	41:Z3:174:LEU:HD21	2.03	0.40
24:ZB:247:ALA:HB3	24:ZB:355:ILE:HB	2.04	0.40
24:ZB:269:LEU:N	24:ZB:379:SER:O	2.53	0.40
25:ZC:68:LEU:HA	25:ZC:93:GLY:H	1.86	0.40
24:ZD:182:VAL:HG23	24:ZD:186:ASN:HD21	1.86	0.40
25:ZK:198:GLU:HB2	25:ZK:266:PHE:HE2	1.86	0.40
24:ZL:269:LEU:HD22	24:ZL:384:ILE:HD11	2.03	0.40
25:ZM:293:MET:SD	25:ZM:367:PHE:HB2	2.61	0.40
25:ZM:404:ASP:O	25:ZM:407:GLU:HG3	2.22	0.40
24:ZN:75:VAL:HG11	24:ZN:94:SER:HA	2.03	0.40
24:ZN:337:THR:O	24:ZN:339:ARG:NH1	2.54	0.40
24:ZP:286:LEU:O	24:ZP:373:ARG:NH1	2.55	0.40
2:1A:1328:THR:H	2:1A:1331:GLN:NE2	2.16	0.40
2:1B:2496:ARG:HD2	2:1B:2499:LEU:HD12	2.04	0.40
2:1C:2054:ARG:HD2	2:1C:2054:ARG:H	1.87	0.40
2:1D:1556:LEU:HB2	2:1D:1966:LEU:HB2	2.04	0.40
4:2A:242:ASN:N	25:OQ:410:GLU:OE2	2.55	0.40
6:2H:166:PRO:HA	6:2H:182:ARG:HA	2.02	0.40
13:7H:145:GLY:N	13:7H:161:PHE:O	2.54	0.40
13:7J:122:GLY:O	13:7J:138:TRP:N	2.55	0.40
13:7K:145:GLY:N	13:7K:161:PHE:O	2.54	0.40
14:8B:90:GLY:HA2	25:VK:94:GLN:HE22	1.87	0.40
14:8C:42:LYS:HB3	24:XH:244:PHE:HD1	1.87	0.40
14:8C:177:LEU:HD11	25:SG:18:ALA:HB1	2.03	0.40
16:A3:150:ASN:OD1	25:XA:111:GLU:HB2	2.21	0.40
17:B1:515:ALA:HB2	26:O1:360:ASN:ND2	2.36	0.40
18:C0:847:GLN:HE21	18:C0:866:LEU:HD13	1.87	0.40
18:C0:1250:ARG:HA	18:C0:1253:LEU:HD12	2.03	0.40
18:C0:1342:VAL:HG13	18:C0:1347:LYS:HG2	2.03	0.40
18:C1:426:ARG:HH22	18:C1:427:ARG:HH11	1.68	0.40
18:C2:495:PRO:HG2	18:C2:498:GLU:HB2	2.04	0.40
18:C2:592:LEU:HD21	18:C2:721:LYS:HG2	2.04	0.40
18:C2:1608:LEU:HD22	18:C2:1619:LEU:HD22	2.04	0.40
18:C3:398:GLU:O	18:C3:402:MET:HG2	2.22	0.40
18:C4:5:LEU:HD23	18:C4:5:LEU:HA	1.98	0.40
19:D1:58:GLN:OE1	19:D1:95:GLN:NE2	2.55	0.40
19:D1:116:GLU:HA	19:D1:119:GLN:HG3	2.03	0.40
19:D1:287:GLN:HA	19:D1:290:VAL:HG22	2.03	0.40
19:D2:302:ILE:HD11	19:D2:313:GLY:HA3	2.04	0.40
19:D6:112:ARG:HG3	19:D6:151:TYR:CE1	2.56	0.40
19:D6:128:ASP:N	19:D6:128:ASP:OD1	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:D6:142:LYS:HE2	19:D6:142:LYS:HB2	1.94	0.40
19:D6:338:PRO:HA	19:D6:341:VAL:HG12	2.03	0.40
20:E2:85:LEU:HD23	20:E2:115:HIS:HB3	2.04	0.40
21:F2:87:PHE:HD2	21:F2:111:LEU:HB3	1.86	0.40
19:G2:50:LEU:HD23	19:G2:50:LEU:HA	1.91	0.40
19:G2:59:GLN:NE2	19:G2:98:PHE:HB2	2.35	0.40
19:G2:238:LYS:HA	19:G2:277:GLU:OE2	2.22	0.40
19:G2:347:GLU:HA	19:G2:353:LYS:HD3	2.03	0.40
19:G3:397:LYS:O	19:G3:401:ARG:HG2	2.21	0.40
19:H0:97:ARG:HA	19:H0:100:LYS:HB2	2.02	0.40
19:H0:174:LEU:O	19:H0:178:GLU:HG2	2.21	0.40
19:H0:264:ASP:OD1	19:H0:265:GLU:N	2.54	0.40
19:H5:242:ASP:N	19:H5:242:ASP:OD1	2.54	0.40
19:H5:264:ASP:HB3	19:H5:267:VAL:HG22	2.03	0.40
19:H7:49:LEU:HA	19:H7:52:ASP:HB2	2.02	0.40
19:H7:91:SER:O	19:H7:95:GLN:HG3	2.22	0.40
19:I1:30:ASN:O	19:I1:34:ILE:HG12	2.21	0.40
19:I1:128:ASP:HA	19:I1:131:VAL:HG12	2.04	0.40
19:J0:329:LEU:HD13	19:J0:332:ILE:HD11	2.02	0.40
19:J1:266:PHE:O	19:J1:269:LYS:HB2	2.21	0.40
19:K2:37:LEU:HD23	19:K2:68:LEU:HD21	2.02	0.40
19:K3:395:ASP:N	19:K3:395:ASP:OD1	2.54	0.40
19:L1:214:LEU:HG	19:L1:217:LEU:HD12	2.03	0.40
19:L1:347:GLU:HG3	19:L1:353:LYS:HZ1	1.85	0.40
19:L2:183:LEU:HD12	19:L2:183:LEU:HA	1.91	0.40
19:L2:379:CYS:O	19:L2:382:THR:OG1	2.31	0.40
22:M0:710:LEU:O	29:R0:146:ASN:ND2	2.41	0.40
22:M1:362:SER:HB3	25:TI:379:LYS:HE3	2.02	0.40
22:M1:957:TYR:HE2	22:M1:969:LEU:HD23	1.87	0.40
24:NB:88:HIS:HA	24:NB:89:PRO:HD3	1.85	0.40
24:ND:304:LYS:HD3	24:ND:304:LYS:HA	1.91	0.40
24:NF:130:THR:OG1	24:NF:131:GLY:N	2.55	0.40
25:NI:222:PHE:CD2	24:NJ:247:ALA:HB1	2.56	0.40
25:NI:226:ASN:OD1	46:NI:501:GDP:N1	2.51	0.40
24:NJ:27:GLU:OE1	24:NJ:243:ARG:NH2	2.47	0.40
25:NK:379:LYS:HB3	25:NK:419:VAL:HG21	2.03	0.40
24:NN:35:GLN:N	24:NN:35:GLN:OE1	2.55	0.40
26:O1:129:GLU:HB3	26:O1:189:LYS:NZ	2.37	0.40
24:OD:251:ASP:OD1	24:OD:254:GLU:HG3	2.21	0.40
25:OG:113:ILE:HA	25:OG:116:VAL:HG22	2.03	0.40
25:OG:245:GLN:OE1	25:OG:323:THR:OG1	2.40	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:OH:192:HIS:NE2	24:OH:420:GLU:OE1	2.54	0.40
25:OI:259:PRO:HD2	25:OI:263:LEU:HD23	2.03	0.40
25:OK:2:ARG:NH2	25:OK:240:LEU:HD23	2.37	0.40
25:PK:193:VAL:HG12	25:PK:265:PHE:HE2	1.86	0.40
24:PN:326:LYS:HB3	24:PN:326:LYS:HE3	1.81	0.40
25:PO:54:ALA:HA	25:QO:283:ALA:HB2	2.04	0.40
25:PQ:195:ASN:OD1	25:PQ:196:ALA:N	2.54	0.40
28:Q0:1091:LEU:HD22	28:Q0:1163:VAL:HG13	2.04	0.40
28:Q0:1157:LEU:HD23	28:Q0:1157:LEU:HA	1.90	0.40
28:Q0:1512:ARG:HD2	28:Q0:1512:ARG:HA	1.87	0.40
28:Q0:2436:PRO:HB2	28:Q0:2437:GLY:H	1.70	0.40
28:Q0:2708:ALA:HA	28:Q0:2833:LEU:HD11	2.04	0.40
28:Q1:139:HIS:O	28:Q1:142:THR:OG1	2.30	0.40
28:Q1:285:ARG:HA	28:Q1:288:MET:HG2	2.03	0.40
28:Q1:1026:LEU:HD22	28:Q1:1054:LEU:HD23	2.03	0.40
28:Q1:2223:MET:HE1	28:Q1:2273:ILE:O	2.20	0.40
24:QD:433:GLU:O	24:QD:437:ALA:N	2.53	0.40
24:QF:174:SER:HB3	24:QF:177:VAL:O	2.21	0.40
24:QF:274:PRO:HD3	24:QF:291:ILE:HB	2.02	0.40
25:QG:113:ILE:HA	25:QG:116:VAL:HG22	2.02	0.40
25:QG:198:GLU:HG3	25:QG:258:ILE:HD11	2.02	0.40
24:QH:209:ILE:HG23	24:QH:230:LEU:HD11	2.04	0.40
25:QI:36:TYR:OH	25:QI:40:SER:O	2.40	0.40
25:QI:112:LEU:HD12	25:QI:112:LEU:HA	1.90	0.40
24:QJ:276:ILE:HD12	24:QJ:281:ALA:HA	2.04	0.40
24:QL:253:THR:HA	24:QL:256:GLN:HE21	1.86	0.40
25:QQ:7:ILE:HD13	25:QQ:151:LEU:HD21	2.02	0.40
29:R0:186:GLU:O	29:R0:190:ARG:HG3	2.21	0.40
25:RC:19:LYS:HD3	25:RC:19:LYS:HA	1.95	0.40
24:RF:27:GLU:OE2	24:RF:358:GLN:NE2	2.43	0.40
24:RF:240:ALA:HA	24:RF:243:ARG:HG3	2.04	0.40
25:RG:8:GLN:HG2	25:RG:65:LEU:HD13	2.03	0.40
25:RI:60:VAL:HG21	25:RI:86:ARG:HB2	2.04	0.40
24:RJ:73:THR:HG23	25:RK:247:ASN:HD22	1.86	0.40
24:RL:206:ASN:OD1	44:RL:501:GTP:O2'	2.40	0.40
24:RL:274:PRO:HD2	24:RL:374:ALA:HA	2.04	0.40
24:RL:296:PHE:HD1	24:RL:312:TYR:HE2	1.70	0.40
24:RL:317:LEU:HB3	24:RL:319:TYR:CE2	2.55	0.40
24:RL:335:ILE:HD12	24:RL:338:LYS:HG3	2.03	0.40
25:RM:407:GLU:HA	25:RM:410:GLU:HG3	2.03	0.40
25:RO:180:VAL:HG23	25:RO:184:ASN:ND2	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:RP:405:VAL:HG13	24:RP:418:PHE:HE2	1.87	0.40
25:SC:238:CYS:HB2	25:SC:318:ARG:HH11	1.85	0.40
25:SE:221:THR:HG23	25:SE:223:GLY:H	1.87	0.40
24:SF:2:ARG:HA	24:SF:133:GLN:HE22	1.87	0.40
25:SG:26:ASP:OD1	25:SG:359:LYS:NZ	2.50	0.40
24:SH:88:HIS:HB3	24:SH:91:GLN:HG3	2.04	0.40
25:SI:256:ASN:O	25:SI:312:THR:HG21	2.22	0.40
24:SL:356:ASN:OD1	24:SL:357:TYR:N	2.49	0.40
24:SP:272:TYR:HB3	24:SP:275:ILE:HD11	2.04	0.40
24:SP:288:VAL:HG13	24:SP:319:TYR:HE1	1.87	0.40
32:T0:557:THR:O	32:T0:561:ARG:HG2	2.21	0.40
24:TF:195:LEU:HD21	24:TF:428:LEU:HD12	2.03	0.40
24:TH:183:GLU:OE2	44:TH:501:GTP:O3'	2.33	0.40
24:TH:222:PRO:HG2	25:TI:324:LYS:HZ2	1.87	0.40
25:TO:22:GLU:HA	25:TO:81:TYR:HD2	1.87	0.40
24:UB:65:CYS:SG	24:UB:66:ILE:N	2.95	0.40
24:UB:368:LEU:HD23	24:UB:368:LEU:HA	1.95	0.40
24:UB:406:HIS:HA	24:UB:409:VAL:HG12	2.02	0.40
24:UD:133:GLN:O	24:UD:165:SER:OG	2.39	0.40
25:UE:8:GLN:HE22	25:UE:63:ALA:HB1	1.87	0.40
25:UE:232:VAL:HG13	25:UE:268:VAL:HG11	2.03	0.40
24:UF:272:TYR:HD2	24:UF:275:ILE:HG12	1.86	0.40
24:UF:328:VAL:HG11	24:UF:355:ILE:HD11	2.04	0.40
24:UH:88:HIS:HE2	24:VH:284:GLU:HG2	1.86	0.40
25:UI:171:PRO:HG2	25:UI:381:VAL:HG22	2.02	0.40
25:UK:47:ILE:HG22	25:UK:51:PHE:HB2	2.02	0.40
24:UL:21:TRP:NE1	24:UL:65:CYS:SG	2.94	0.40
24:UL:240:ALA:HB2	24:UL:243:ARG:HH21	1.87	0.40
24:UL:399:TYR:OH	24:UL:402:ARG:NH2	2.53	0.40
25:UM:178:THR:HG23	25:UM:181:GLU:HB3	2.04	0.40
24:UP:345:ASP:OD2	24:UP:346:TRP:N	2.55	0.40
24:VB:240:ALA:HA	24:VB:243:ARG:HE	1.86	0.40
25:VC:107:THR:HG1	25:VC:108:GLU:CD	2.25	0.40
24:VH:21:TRP:CZ2	24:VH:65:CYS:HB2	2.57	0.40
25:VI:242:PHE:HB2	25:VI:354:CYS:SG	2.62	0.40
25:VK:130:LEU:HB2	25:VK:162:ARG:NH1	2.36	0.40
25:VO:86:ARG:HA	25:VO:87:PRO:HD3	1.93	0.40
25:WA:113:ILE:HA	25:WA:113:ILE:HD13	1.97	0.40
25:WA:260:PHE:HB2	25:WA:263:LEU:HD13	2.03	0.40
24:WD:164:LYS:HA	24:WD:164:LYS:HD2	1.90	0.40
24:WD:274:PRO:HD2	24:WD:374:ALA:HA	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:WF:76:ASP:HA	24:WF:79:ARG:HD2	2.04	0.40
25:WG:238:CYS:SG	25:WG:318:ARG:NE	2.94	0.40
24:WH:33:ASP:HA	24:WH:85:GLN:HB2	2.02	0.40
25:WK:262:ARG:NH2	25:WK:414:ASN:OD1	2.54	0.40
25:WK:313:ALA:HA	25:WK:369:GLY:HA2	2.03	0.40
39:X1:219:ALA:HB1	39:X1:241:ARG:HH22	1.87	0.40
39:X2:593:HIS:CE1	39:X2:595:ALA:HB3	2.57	0.40
39:X3:172:HIS:HA	39:X3:195:HIS:HB3	2.03	0.40
25:XA:8:GLN:HE22	25:XA:63:ALA:HB1	1.86	0.40
24:XD:102:ASN:HB3	24:XD:411:GLU:OE1	2.21	0.40
24:XJ:155:GLU:HA	24:XJ:197:HIS:CD2	2.57	0.40
24:XL:315:CYS:N	24:XL:350:GLY:O	2.49	0.40
24:XN:100:ALA:HB3	25:XO:251:ARG:HD2	2.04	0.40
24:XN:335:ILE:HD13	24:XN:335:ILE:HA	1.97	0.40
25:XO:19:LYS:HD2	25:XO:22:GLU:OE2	2.21	0.40
25:XO:274:THR:OG1	25:XO:282:ARG:NH2	2.38	0.40
40:Y0:211:MET:O	40:Y0:285:GLY:N	2.46	0.40
40:Y5:287:ASP:HA	40:Y5:337:GLU:HB3	2.03	0.40
40:Y7:154:LEU:O	40:Y7:158:MET:HG3	2.21	0.40
24:YD:251:ASP:OD1	24:YD:252:ILE:N	2.50	0.40
24:YD:251:ASP:O	24:YD:254:GLU:HB2	2.21	0.40
24:YH:3:GLU:HG3	24:YH:129:CYS:HB2	2.04	0.40
25:YI:20:PHE:HA	25:YI:230:SER:HB3	2.03	0.40
25:YI:178:THR:OG1	25:YI:181:GLU:HB2	2.22	0.40
24:YL:130:THR:OG1	24:YL:131:GLY:N	2.55	0.40
24:YL:209:ILE:HD11	24:YL:302:MET:HB3	2.02	0.40
25:YM:100:ASN:HB3	25:YM:103:LYS:HB2	2.04	0.40
41:Z0:479:GLN:HB2	41:Z0:499:LYS:HB3	2.04	0.40
41:Z2:357:GLN:NE2	41:Z2:363:LYS:O	2.54	0.40
24:ZB:155:GLU:HA	24:ZB:197:HIS:CD2	2.56	0.40
24:ZD:209:ILE:HA	24:ZD:212:ILE:HG22	2.03	0.40
24:ZF:9:ILE:HD11	24:ZF:153:LEU:HD23	2.04	0.40
24:ZJ:277:SER:OG	24:ZJ:278:ALA:N	2.54	0.40
25:ZK:292:GLN:HG2	25:ZK:298:ASN:ND2	2.37	0.40
25:ZM:44:LEU:HD23	25:ZM:47:ILE:HD11	2.02	0.40
24:ZN:102:ASN:HB2	24:ZN:105:ARG:HB2	2.03	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	0A	54/93 (58%)	54 (100%)	0	0	100	100
1	0B	59/93 (63%)	58 (98%)	1 (2%)	0	100	100
1	0C	54/93 (58%)	54 (100%)	0	0	100	100
1	0D	59/93 (63%)	58 (98%)	1 (2%)	0	100	100
1	0E	54/93 (58%)	54 (100%)	0	0	100	100
1	0F	59/93 (63%)	58 (98%)	1 (2%)	0	100	100
1	0G	54/93 (58%)	54 (100%)	0	0	100	100
1	0H	59/93 (63%)	58 (98%)	1 (2%)	0	100	100
1	0I	60/93 (64%)	59 (98%)	1 (2%)	0	100	100
1	0J	54/93 (58%)	50 (93%)	4 (7%)	0	100	100
1	0K	61/93 (66%)	60 (98%)	1 (2%)	0	100	100
1	0L	52/93 (56%)	51 (98%)	1 (2%)	0	100	100
2	1A	1595/2540 (63%)	1500 (94%)	88 (6%)	7 (0%)	34	70
2	1B	1618/2540 (64%)	1517 (94%)	93 (6%)	8 (0%)	29	66
2	1C	1662/2540 (65%)	1564 (94%)	90 (5%)	8 (0%)	29	66
2	1D	1646/2540 (65%)	1548 (94%)	90 (6%)	8 (0%)	29	66
3	1F	220/507 (43%)	218 (99%)	1 (0%)	1 (0%)	29	66
3	1G	156/507 (31%)	156 (100%)	0	0	100	100
3	1H	177/507 (35%)	176 (99%)	0	1 (1%)	25	62
3	1I	95/507 (19%)	95 (100%)	0	0	100	100
3	1J	334/507 (66%)	332 (99%)	1 (0%)	1 (0%)	41	74
3	1K	340/507 (67%)	339 (100%)	1 (0%)	0	100	100
3	1L	334/507 (66%)	332 (99%)	2 (1%)	0	100	100
3	1M	340/507 (67%)	339 (100%)	1 (0%)	0	100	100
3	1N	334/507 (66%)	333 (100%)	0	1 (0%)	41	74

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	1O	340/507 (67%)	339 (100%)	1 (0%)	0	100	100
3	1P	334/507 (66%)	334 (100%)	0	0	100	100
3	1Q	340/507 (67%)	339 (100%)	1 (0%)	0	100	100
3	1R	334/507 (66%)	333 (100%)	0	1 (0%)	41	74
3	1S	340/507 (67%)	339 (100%)	1 (0%)	0	100	100
3	1T	334/507 (66%)	333 (100%)	1 (0%)	0	100	100
3	1U	340/507 (67%)	339 (100%)	1 (0%)	0	100	100
3	1V	212/507 (42%)	212 (100%)	0	0	100	100
3	1W	262/507 (52%)	262 (100%)	0	0	100	100
3	1X	223/507 (44%)	223 (100%)	0	0	100	100
3	1Y	259/507 (51%)	259 (100%)	0	0	100	100
4	2A	726/2215 (33%)	694 (96%)	29 (4%)	3 (0%)	34	70
4	2B	736/2215 (33%)	707 (96%)	26 (4%)	3 (0%)	34	70
5	2E	219/739 (30%)	216 (99%)	3 (1%)	0	100	100
5	2F	221/739 (30%)	214 (97%)	7 (3%)	0	100	100
6	2H	392/945 (42%)	386 (98%)	6 (2%)	0	100	100
6	2I	392/945 (42%)	383 (98%)	9 (2%)	0	100	100
7	2K	246/286 (86%)	242 (98%)	4 (2%)	0	100	100
7	2L	255/286 (89%)	249 (98%)	6 (2%)	0	100	100
7	2M	254/286 (89%)	248 (98%)	5 (2%)	1 (0%)	34	70
7	2N	260/286 (91%)	254 (98%)	6 (2%)	0	100	100
7	2O	249/286 (87%)	246 (99%)	3 (1%)	0	100	100
7	2P	183/286 (64%)	179 (98%)	4 (2%)	0	100	100
7	2Q	38/286 (13%)	37 (97%)	1 (3%)	0	100	100
8	3A	171/427 (40%)	167 (98%)	3 (2%)	1 (1%)	25	62
8	3B	171/427 (40%)	167 (98%)	4 (2%)	0	100	100
8	3C	171/427 (40%)	169 (99%)	2 (1%)	0	100	100
8	3D	163/427 (38%)	162 (99%)	1 (1%)	0	100	100
9	3K	254/306 (83%)	245 (96%)	8 (3%)	1 (0%)	34	70
9	3L	239/306 (78%)	234 (98%)	4 (2%)	1 (0%)	34	70
9	3M	252/306 (82%)	247 (98%)	4 (2%)	1 (0%)	34	70

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
9	3N	242/306 (79%)	234 (97%)	7 (3%)	1 (0%)	34	70
9	3O	256/306 (84%)	247 (96%)	8 (3%)	1 (0%)	34	70
9	3P	252/306 (82%)	241 (96%)	10 (4%)	1 (0%)	34	70
10	4A	141/163 (86%)	139 (99%)	2 (1%)	0	100	100
10	4B	141/163 (86%)	138 (98%)	3 (2%)	0	100	100
10	4C	141/163 (86%)	138 (98%)	3 (2%)	0	100	100
10	4D	141/163 (86%)	139 (99%)	2 (1%)	0	100	100
10	4E	141/163 (86%)	138 (98%)	3 (2%)	0	100	100
10	4F	141/163 (86%)	139 (99%)	2 (1%)	0	100	100
10	4G	141/163 (86%)	139 (99%)	2 (1%)	0	100	100
10	4H	141/163 (86%)	138 (98%)	3 (2%)	0	100	100
10	4I	141/163 (86%)	139 (99%)	2 (1%)	0	100	100
10	4J	141/163 (86%)	139 (99%)	2 (1%)	0	100	100
10	4K	141/163 (86%)	139 (99%)	2 (1%)	0	100	100
10	4L	141/163 (86%)	140 (99%)	1 (1%)	0	100	100
11	5A	531/835 (64%)	514 (97%)	17 (3%)	0	100	100
11	5B	531/835 (64%)	514 (97%)	16 (3%)	1 (0%)	47	79
11	5C	531/835 (64%)	511 (96%)	17 (3%)	3 (1%)	25	62
11	5D	531/835 (64%)	515 (97%)	15 (3%)	1 (0%)	47	79
12	6A	289/304 (95%)	275 (95%)	14 (5%)	0	100	100
12	6B	289/304 (95%)	275 (95%)	14 (5%)	0	100	100
12	6C	249/304 (82%)	241 (97%)	8 (3%)	0	100	100
12	6D	249/304 (82%)	239 (96%)	10 (4%)	0	100	100
13	7A	115/173 (66%)	115 (100%)	0	0	100	100
13	7B	128/173 (74%)	126 (98%)	2 (2%)	0	100	100
13	7C	114/173 (66%)	113 (99%)	1 (1%)	0	100	100
13	7D	100/173 (58%)	99 (99%)	1 (1%)	0	100	100
13	7E	109/173 (63%)	109 (100%)	0	0	100	100
13	7F	101/173 (58%)	101 (100%)	0	0	100	100
13	7G	115/173 (66%)	115 (100%)	0	0	100	100
13	7H	128/173 (74%)	125 (98%)	3 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
13	7I	116/173 (67%)	116 (100%)	0	0	100	100
13	7J	128/173 (74%)	127 (99%)	1 (1%)	0	100	100
13	7K	115/173 (66%)	115 (100%)	0	0	100	100
13	7L	113/173 (65%)	111 (98%)	2 (2%)	0	100	100
14	8A	248/287 (86%)	234 (94%)	14 (6%)	0	100	100
14	8B	132/287 (46%)	125 (95%)	7 (5%)	0	100	100
14	8C	268/287 (93%)	255 (95%)	13 (5%)	0	100	100
14	8D	132/287 (46%)	123 (93%)	9 (7%)	0	100	100
15	9A	797/2301 (35%)	773 (97%)	21 (3%)	3 (0%)	34	70
15	9B	797/2301 (35%)	772 (97%)	22 (3%)	3 (0%)	34	70
15	9C	797/2301 (35%)	775 (97%)	19 (2%)	3 (0%)	34	70
15	9D	797/2301 (35%)	776 (97%)	18 (2%)	3 (0%)	34	70
15	9E	645/2301 (28%)	627 (97%)	15 (2%)	3 (0%)	29	66
15	9F	643/2301 (28%)	620 (96%)	20 (3%)	3 (0%)	29	66
16	A0	133/276 (48%)	129 (97%)	4 (3%)	0	100	100
16	A1	171/276 (62%)	166 (97%)	5 (3%)	0	100	100
16	A2	171/276 (62%)	163 (95%)	8 (5%)	0	100	100
16	A3	171/276 (62%)	165 (96%)	6 (4%)	0	100	100
16	A4	35/276 (13%)	35 (100%)	0	0	100	100
17	B0	238/795 (30%)	234 (98%)	4 (2%)	0	100	100
17	B1	460/795 (58%)	451 (98%)	9 (2%)	0	100	100
17	B2	239/795 (30%)	234 (98%)	5 (2%)	0	100	100
18	C0	1158/1929 (60%)	1101 (95%)	53 (5%)	4 (0%)	41	74
18	C1	1294/1929 (67%)	1235 (95%)	56 (4%)	3 (0%)	47	79
18	C2	1470/1929 (76%)	1398 (95%)	69 (5%)	3 (0%)	47	79
18	C3	1457/1929 (76%)	1393 (96%)	61 (4%)	3 (0%)	47	79
18	C4	279/1929 (14%)	264 (95%)	15 (5%)	0	100	100
19	D0	453/512 (88%)	431 (95%)	22 (5%)	0	100	100
19	D1	453/512 (88%)	438 (97%)	14 (3%)	1 (0%)	47	79
19	D2	456/512 (89%)	443 (97%)	12 (3%)	1 (0%)	47	79
19	D3	456/512 (89%)	438 (96%)	17 (4%)	1 (0%)	47	79

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
19	D4	453/512 (88%)	431 (95%)	22 (5%)	0	100	100
19	D5	456/512 (89%)	443 (97%)	12 (3%)	1 (0%)	47	79
19	D6	456/512 (89%)	440 (96%)	16 (4%)	0	100	100
19	D7	456/512 (89%)	433 (95%)	22 (5%)	1 (0%)	47	79
19	G0	452/512 (88%)	434 (96%)	17 (4%)	1 (0%)	47	79
19	G1	454/512 (89%)	437 (96%)	16 (4%)	1 (0%)	47	79
19	G2	455/512 (89%)	438 (96%)	17 (4%)	0	100	100
19	G3	454/512 (89%)	437 (96%)	16 (4%)	1 (0%)	47	79
19	G4	455/512 (89%)	434 (95%)	21 (5%)	0	100	100
19	G5	454/512 (89%)	438 (96%)	16 (4%)	0	100	100
19	H0	451/512 (88%)	439 (97%)	12 (3%)	0	100	100
19	H1	433/512 (85%)	420 (97%)	12 (3%)	1 (0%)	47	79
19	H2	444/512 (87%)	425 (96%)	18 (4%)	1 (0%)	47	79
19	H3	449/512 (88%)	429 (96%)	19 (4%)	1 (0%)	47	79
19	H4	454/512 (89%)	441 (97%)	13 (3%)	0	100	100
19	H5	450/512 (88%)	434 (96%)	16 (4%)	0	100	100
19	H6	442/512 (86%)	422 (96%)	20 (4%)	0	100	100
19	H7	443/512 (86%)	426 (96%)	15 (3%)	2 (0%)	29	66
19	I0	447/512 (87%)	428 (96%)	19 (4%)	0	100	100
19	I1	454/512 (89%)	440 (97%)	14 (3%)	0	100	100
19	J0	441/512 (86%)	427 (97%)	13 (3%)	1 (0%)	47	79
19	J1	454/512 (89%)	438 (96%)	16 (4%)	0	100	100
19	J2	452/512 (88%)	437 (97%)	15 (3%)	0	100	100
19	J3	449/512 (88%)	427 (95%)	22 (5%)	0	100	100
19	K0	455/512 (89%)	438 (96%)	16 (4%)	1 (0%)	47	79
19	K1	455/512 (89%)	434 (95%)	20 (4%)	1 (0%)	47	79
19	K2	455/512 (89%)	440 (97%)	15 (3%)	0	100	100
19	K3	449/512 (88%)	432 (96%)	16 (4%)	1 (0%)	47	79
19	L0	456/512 (89%)	442 (97%)	14 (3%)	0	100	100
19	L1	453/512 (88%)	436 (96%)	16 (4%)	1 (0%)	47	79
19	L2	453/512 (88%)	431 (95%)	22 (5%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
19	L3	456/512 (89%)	436 (96%)	20 (4%)	0	100	100
20	E0	230/446 (52%)	216 (94%)	14 (6%)	0	100	100
20	E1	237/446 (53%)	221 (93%)	15 (6%)	1 (0%)	34	70
20	E2	228/446 (51%)	211 (92%)	17 (8%)	0	100	100
20	E3	238/446 (53%)	222 (93%)	15 (6%)	1 (0%)	34	70
21	F0	304/4929 (6%)	292 (96%)	12 (4%)	0	100	100
21	F1	478/4929 (10%)	447 (94%)	30 (6%)	1 (0%)	47	79
21	F2	478/4929 (10%)	446 (93%)	32 (7%)	0	100	100
21	F3	478/4929 (10%)	446 (93%)	32 (7%)	0	100	100
22	M0	227/971 (23%)	211 (93%)	15 (7%)	1 (0%)	34	70
22	M1	556/971 (57%)	528 (95%)	26 (5%)	2 (0%)	34	70
23	N0	487/571 (85%)	478 (98%)	9 (2%)	0	100	100
23	N1	499/571 (87%)	484 (97%)	14 (3%)	1 (0%)	47	79
23	N2	487/571 (85%)	472 (97%)	15 (3%)	0	100	100
23	N3	501/571 (88%)	488 (97%)	13 (3%)	0	100	100
24	NB	426/451 (94%)	411 (96%)	15 (4%)	0	100	100
24	ND	426/451 (94%)	413 (97%)	12 (3%)	1 (0%)	47	79
24	NF	426/451 (94%)	412 (97%)	13 (3%)	1 (0%)	47	79
24	NH	426/451 (94%)	410 (96%)	15 (4%)	1 (0%)	47	79
24	NJ	426/451 (94%)	408 (96%)	18 (4%)	0	100	100
24	NL	426/451 (94%)	413 (97%)	13 (3%)	0	100	100
24	NN	426/451 (94%)	413 (97%)	13 (3%)	0	100	100
24	OD	426/451 (94%)	413 (97%)	13 (3%)	0	100	100
24	OF	426/451 (94%)	416 (98%)	10 (2%)	0	100	100
24	OH	426/451 (94%)	411 (96%)	15 (4%)	0	100	100
24	OJ	426/451 (94%)	407 (96%)	19 (4%)	0	100	100
24	OL	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
24	ON	426/451 (94%)	414 (97%)	12 (3%)	0	100	100
24	OP	426/451 (94%)	408 (96%)	18 (4%)	0	100	100
24	PD	425/451 (94%)	408 (96%)	17 (4%)	0	100	100
24	PF	426/451 (94%)	412 (97%)	14 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
24	PH	426/451 (94%)	410 (96%)	16 (4%)	0	100	100
24	PJ	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
24	PL	425/451 (94%)	408 (96%)	17 (4%)	0	100	100
24	PN	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
24	PP	426/451 (94%)	410 (96%)	16 (4%)	0	100	100
24	QD	426/451 (94%)	411 (96%)	15 (4%)	0	100	100
24	QF	426/451 (94%)	411 (96%)	15 (4%)	0	100	100
24	QH	437/451 (97%)	420 (96%)	17 (4%)	0	100	100
24	QJ	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
24	QL	426/451 (94%)	411 (96%)	15 (4%)	0	100	100
24	QN	425/451 (94%)	408 (96%)	17 (4%)	0	100	100
24	QP	437/451 (97%)	420 (96%)	17 (4%)	0	100	100
24	RD	426/451 (94%)	406 (95%)	20 (5%)	0	100	100
24	RF	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
24	RH	426/451 (94%)	406 (95%)	20 (5%)	0	100	100
24	RJ	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
24	RL	426/451 (94%)	403 (95%)	23 (5%)	0	100	100
24	RN	426/451 (94%)	407 (96%)	19 (4%)	0	100	100
24	RP	426/451 (94%)	408 (96%)	18 (4%)	0	100	100
24	SB	426/451 (94%)	407 (96%)	19 (4%)	0	100	100
24	SD	426/451 (94%)	410 (96%)	16 (4%)	0	100	100
24	SF	426/451 (94%)	411 (96%)	15 (4%)	0	100	100
24	SH	429/451 (95%)	407 (95%)	22 (5%)	0	100	100
24	SJ	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
24	SL	426/451 (94%)	415 (97%)	11 (3%)	0	100	100
24	SN	426/451 (94%)	408 (96%)	17 (4%)	1 (0%)	47	79
24	SP	429/451 (95%)	413 (96%)	16 (4%)	0	100	100
24	TB	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
24	TD	426/451 (94%)	407 (96%)	19 (4%)	0	100	100
24	TF	426/451 (94%)	407 (96%)	19 (4%)	0	100	100
24	TH	429/451 (95%)	414 (96%)	15 (4%)	0	100	100

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Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
24	TJ	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
24	TL	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
24	TN	426/451 (94%)	414 (97%)	12 (3%)	0	100	100
24	TP	429/451 (95%)	419 (98%)	10 (2%)	0	100	100
24	UB	436/451 (97%)	416 (95%)	20 (5%)	0	100	100
24	UD	428/451 (95%)	408 (95%)	20 (5%)	0	100	100
24	UF	437/451 (97%)	422 (97%)	15 (3%)	0	100	100
24	UH	429/451 (95%)	411 (96%)	18 (4%)	0	100	100
24	UJ	437/451 (97%)	422 (97%)	15 (3%)	0	100	100
24	UL	428/451 (95%)	412 (96%)	16 (4%)	0	100	100
24	UN	437/451 (97%)	420 (96%)	17 (4%)	0	100	100
24	UP	427/451 (95%)	416 (97%)	11 (3%)	0	100	100
24	VB	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
24	VD	426/451 (94%)	406 (95%)	20 (5%)	0	100	100
24	VF	426/451 (94%)	413 (97%)	13 (3%)	0	100	100
24	VH	429/451 (95%)	407 (95%)	22 (5%)	0	100	100
24	VJ	426/451 (94%)	408 (96%)	18 (4%)	0	100	100
24	VL	426/451 (94%)	416 (98%)	10 (2%)	0	100	100
24	VN	426/451 (94%)	417 (98%)	9 (2%)	0	100	100
24	VP	426/451 (94%)	416 (98%)	10 (2%)	0	100	100
24	WB	437/451 (97%)	415 (95%)	21 (5%)	1 (0%)	47	79
24	WD	426/451 (94%)	413 (97%)	12 (3%)	1 (0%)	47	79
24	WF	437/451 (97%)	421 (96%)	16 (4%)	0	100	100
24	WH	430/451 (95%)	414 (96%)	16 (4%)	0	100	100
24	WJ	436/451 (97%)	415 (95%)	21 (5%)	0	100	100
24	WL	427/451 (95%)	405 (95%)	20 (5%)	2 (0%)	29	66
24	WN	437/451 (97%)	415 (95%)	22 (5%)	0	100	100
24	XB	426/451 (94%)	407 (96%)	19 (4%)	0	100	100
24	XD	426/451 (94%)	416 (98%)	10 (2%)	0	100	100
24	XF	426/451 (94%)	413 (97%)	13 (3%)	0	100	100
24	XH	426/451 (94%)	411 (96%)	15 (4%)	0	100	100

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Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
24	XJ	426/451 (94%)	414 (97%)	12 (3%)	0	100	100
24	XL	426/451 (94%)	413 (97%)	13 (3%)	0	100	100
24	XN	426/451 (94%)	409 (96%)	17 (4%)	0	100	100
24	YB	426/451 (94%)	413 (97%)	13 (3%)	0	100	100
24	YD	425/451 (94%)	406 (96%)	19 (4%)	0	100	100
24	YF	426/451 (94%)	411 (96%)	15 (4%)	0	100	100
24	YH	426/451 (94%)	406 (95%)	20 (5%)	0	100	100
24	YJ	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
24	YL	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
24	YN	426/451 (94%)	413 (97%)	13 (3%)	0	100	100
24	YP	426/451 (94%)	412 (97%)	14 (3%)	0	100	100
24	ZB	425/451 (94%)	404 (95%)	21 (5%)	0	100	100
24	ZD	425/451 (94%)	410 (96%)	14 (3%)	1 (0%)	47	79
24	ZF	426/451 (94%)	408 (96%)	18 (4%)	0	100	100
24	ZH	426/451 (94%)	410 (96%)	16 (4%)	0	100	100
24	ZJ	426/451 (94%)	408 (96%)	18 (4%)	0	100	100
24	ZL	426/451 (94%)	410 (96%)	16 (4%)	0	100	100
24	ZN	426/451 (94%)	410 (96%)	16 (4%)	0	100	100
24	ZP	426/451 (94%)	411 (96%)	14 (3%)	1 (0%)	47	79
25	NC	425/443 (96%)	410 (96%)	15 (4%)	0	100	100
25	NE	425/443 (96%)	410 (96%)	15 (4%)	0	100	100
25	NG	425/443 (96%)	411 (97%)	14 (3%)	0	100	100
25	NI	425/443 (96%)	409 (96%)	16 (4%)	0	100	100
25	NK	425/443 (96%)	409 (96%)	16 (4%)	0	100	100
25	NM	425/443 (96%)	404 (95%)	21 (5%)	0	100	100
25	NO	425/443 (96%)	413 (97%)	12 (3%)	0	100	100
25	OC	425/443 (96%)	411 (97%)	14 (3%)	0	100	100
25	OE	425/443 (96%)	409 (96%)	16 (4%)	0	100	100
25	OG	425/443 (96%)	410 (96%)	15 (4%)	0	100	100
25	OI	427/443 (96%)	409 (96%)	18 (4%)	0	100	100
25	OK	425/443 (96%)	410 (96%)	15 (4%)	0	100	100

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Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
25	OM	425/443 (96%)	410 (96%)	15 (4%)	0	100	100
25	OO	425/443 (96%)	411 (97%)	14 (3%)	0	100	100
25	OQ	427/443 (96%)	410 (96%)	17 (4%)	0	100	100
25	PC	425/443 (96%)	411 (97%)	14 (3%)	0	100	100
25	PE	427/443 (96%)	412 (96%)	15 (4%)	0	100	100
25	PG	425/443 (96%)	412 (97%)	13 (3%)	0	100	100
25	PI	425/443 (96%)	405 (95%)	20 (5%)	0	100	100
25	PK	425/443 (96%)	412 (97%)	13 (3%)	0	100	100
25	PM	425/443 (96%)	402 (95%)	23 (5%)	0	100	100
25	PO	425/443 (96%)	407 (96%)	18 (4%)	0	100	100
25	PQ	425/443 (96%)	406 (96%)	19 (4%)	0	100	100
25	QC	425/443 (96%)	411 (97%)	14 (3%)	0	100	100
25	QE	427/443 (96%)	413 (97%)	14 (3%)	0	100	100
25	QG	426/443 (96%)	415 (97%)	11 (3%)	0	100	100
25	QI	425/443 (96%)	405 (95%)	20 (5%)	0	100	100
25	QK	425/443 (96%)	402 (95%)	23 (5%)	0	100	100
25	QM	427/443 (96%)	410 (96%)	17 (4%)	0	100	100
25	QO	425/443 (96%)	410 (96%)	15 (4%)	0	100	100
25	QQ	425/443 (96%)	412 (97%)	13 (3%)	0	100	100
25	RC	425/443 (96%)	411 (97%)	14 (3%)	0	100	100
25	RE	425/443 (96%)	410 (96%)	15 (4%)	0	100	100
25	RG	425/443 (96%)	409 (96%)	16 (4%)	0	100	100
25	RI	425/443 (96%)	404 (95%)	21 (5%)	0	100	100
25	RK	425/443 (96%)	408 (96%)	17 (4%)	0	100	100
25	RM	425/443 (96%)	411 (97%)	14 (3%)	0	100	100
25	RO	425/443 (96%)	408 (96%)	17 (4%)	0	100	100
25	SC	425/443 (96%)	411 (97%)	14 (3%)	0	100	100
25	SE	425/443 (96%)	409 (96%)	16 (4%)	0	100	100
25	SG	425/443 (96%)	407 (96%)	18 (4%)	0	100	100
25	SI	425/443 (96%)	409 (96%)	16 (4%)	0	100	100
25	SK	425/443 (96%)	411 (97%)	14 (3%)	0	100	100

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Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
25	SM	425/443 (96%)	414 (97%)	11 (3%)	0	100	100
25	SO	425/443 (96%)	406 (96%)	19 (4%)	0	100	100
25	TC	425/443 (96%)	413 (97%)	12 (3%)	0	100	100
25	TE	425/443 (96%)	414 (97%)	11 (3%)	0	100	100
25	TG	425/443 (96%)	410 (96%)	15 (4%)	0	100	100
25	TI	425/443 (96%)	407 (96%)	18 (4%)	0	100	100
25	TK	425/443 (96%)	404 (95%)	21 (5%)	0	100	100
25	TM	425/443 (96%)	411 (97%)	14 (3%)	0	100	100
25	TO	425/443 (96%)	410 (96%)	15 (4%)	0	100	100
25	UC	430/443 (97%)	415 (96%)	15 (4%)	0	100	100
25	UE	425/443 (96%)	417 (98%)	8 (2%)	0	100	100
25	UG	425/443 (96%)	413 (97%)	12 (3%)	0	100	100
25	UI	429/443 (97%)	417 (97%)	12 (3%)	0	100	100
25	UK	430/443 (97%)	414 (96%)	16 (4%)	0	100	100
25	UM	425/443 (96%)	414 (97%)	11 (3%)	0	100	100
25	UO	425/443 (96%)	413 (97%)	12 (3%)	0	100	100
25	VC	425/443 (96%)	415 (98%)	10 (2%)	0	100	100
25	VE	425/443 (96%)	413 (97%)	11 (3%)	1 (0%)	47	79
25	VG	425/443 (96%)	412 (97%)	13 (3%)	0	100	100
25	VI	429/443 (97%)	415 (97%)	14 (3%)	0	100	100
25	VK	425/443 (96%)	409 (96%)	16 (4%)	0	100	100
25	VM	426/443 (96%)	411 (96%)	15 (4%)	0	100	100
25	VO	425/443 (96%)	408 (96%)	17 (4%)	0	100	100
25	WA	428/443 (97%)	415 (97%)	13 (3%)	0	100	100
25	WC	425/443 (96%)	415 (98%)	10 (2%)	0	100	100
25	WE	428/443 (97%)	414 (97%)	14 (3%)	0	100	100
25	WG	425/443 (96%)	411 (97%)	14 (3%)	0	100	100
25	WI	428/443 (97%)	414 (97%)	14 (3%)	0	100	100
25	WK	425/443 (96%)	411 (97%)	14 (3%)	0	100	100
25	WM	428/443 (97%)	415 (97%)	13 (3%)	0	100	100
25	WO	425/443 (96%)	416 (98%)	9 (2%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
25	XA	425/443 (96%)	411 (97%)	14 (3%)	0	100	100
25	XC	425/443 (96%)	411 (97%)	14 (3%)	0	100	100
25	XE	425/443 (96%)	414 (97%)	11 (3%)	0	100	100
25	XG	425/443 (96%)	410 (96%)	15 (4%)	0	100	100
25	XI	426/443 (96%)	411 (96%)	15 (4%)	0	100	100
25	XK	425/443 (96%)	411 (97%)	14 (3%)	0	100	100
25	XM	426/443 (96%)	412 (97%)	14 (3%)	0	100	100
25	XO	425/443 (96%)	411 (97%)	14 (3%)	0	100	100
25	YC	426/443 (96%)	412 (97%)	14 (3%)	0	100	100
25	YE	425/443 (96%)	417 (98%)	8 (2%)	0	100	100
25	YG	425/443 (96%)	411 (97%)	14 (3%)	0	100	100
25	YI	428/443 (97%)	413 (96%)	15 (4%)	0	100	100
25	YK	426/443 (96%)	414 (97%)	12 (3%)	0	100	100
25	YM	426/443 (96%)	411 (96%)	15 (4%)	0	100	100
25	YO	426/443 (96%)	412 (97%)	14 (3%)	0	100	100
25	ZC	425/443 (96%)	411 (97%)	14 (3%)	0	100	100
25	ZE	425/443 (96%)	412 (97%)	13 (3%)	0	100	100
25	ZG	425/443 (96%)	411 (97%)	14 (3%)	0	100	100
25	ZI	425/443 (96%)	412 (97%)	13 (3%)	0	100	100
25	ZK	425/443 (96%)	411 (97%)	14 (3%)	0	100	100
25	ZM	425/443 (96%)	415 (98%)	10 (2%)	0	100	100
25	ZO	425/443 (96%)	410 (96%)	15 (4%)	0	100	100
26	O0	1112/1940 (57%)	1083 (97%)	25 (2%)	4 (0%)	34	70
26	O1	655/1940 (34%)	633 (97%)	20 (3%)	2 (0%)	41	74
26	O2	126/1940 (6%)	126 (100%)	0	0	100	100
27	P0	345/1102 (31%)	331 (96%)	12 (4%)	2 (1%)	25	62
27	P1	702/1102 (64%)	685 (98%)	16 (2%)	1 (0%)	51	83
27	P2	714/1102 (65%)	700 (98%)	13 (2%)	1 (0%)	51	83
27	P3	714/1102 (65%)	696 (98%)	17 (2%)	1 (0%)	51	83
28	Q0	2357/3225 (73%)	2269 (96%)	86 (4%)	2 (0%)	51	83
28	Q1	2359/3225 (73%)	2272 (96%)	84 (4%)	3 (0%)	51	83

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
29	R0	2014/2784 (72%)	1963 (98%)	48 (2%)	3 (0%)	51	83
29	R1	2026/2784 (73%)	1975 (98%)	49 (2%)	2 (0%)	51	83
30	S0	152/168 (90%)	145 (95%)	7 (5%)	0	100	100
30	S1	152/168 (90%)	144 (95%)	8 (5%)	0	100	100
30	S2	152/168 (90%)	145 (95%)	7 (5%)	0	100	100
30	S3	149/168 (89%)	140 (94%)	9 (6%)	0	100	100
32	T0	534/2939 (18%)	506 (95%)	27 (5%)	1 (0%)	47	79
32	T1	558/2939 (19%)	528 (95%)	29 (5%)	1 (0%)	47	79
32	T2	537/2939 (18%)	506 (94%)	29 (5%)	2 (0%)	34	70
32	T3	307/2939 (10%)	295 (96%)	11 (4%)	1 (0%)	41	74
33	U0	195/401 (49%)	188 (96%)	7 (4%)	0	100	100
33	U1	195/401 (49%)	186 (95%)	9 (5%)	0	100	100
34	V0	194/761 (26%)	188 (97%)	6 (3%)	0	100	100
34	V1	183/761 (24%)	180 (98%)	3 (2%)	0	100	100
35	W0	1034/1638 (63%)	1029 (100%)	5 (0%)	0	100	100
35	W1	936/1638 (57%)	931 (100%)	5 (0%)	0	100	100
39	X0	795/1138 (70%)	742 (93%)	53 (7%)	0	100	100
39	X1	795/1138 (70%)	740 (93%)	55 (7%)	0	100	100
39	X2	795/1138 (70%)	740 (93%)	54 (7%)	1 (0%)	51	83
39	X3	795/1138 (70%)	750 (94%)	45 (6%)	0	100	100
40	Y0	474/477 (99%)	448 (94%)	25 (5%)	1 (0%)	47	79
40	Y1	474/477 (99%)	452 (95%)	20 (4%)	2 (0%)	34	70
40	Y2	474/477 (99%)	448 (94%)	25 (5%)	1 (0%)	47	79
40	Y3	474/477 (99%)	449 (95%)	23 (5%)	2 (0%)	34	70
40	Y4	474/477 (99%)	450 (95%)	23 (5%)	1 (0%)	47	79
40	Y5	474/477 (99%)	455 (96%)	17 (4%)	2 (0%)	34	70
40	Y6	474/477 (99%)	455 (96%)	18 (4%)	1 (0%)	47	79
40	Y7	474/477 (99%)	460 (97%)	12 (2%)	2 (0%)	34	70
41	Z0	586/651 (90%)	574 (98%)	12 (2%)	0	100	100
41	Z1	586/651 (90%)	568 (97%)	17 (3%)	1 (0%)	47	79
41	Z2	586/651 (90%)	572 (98%)	13 (2%)	1 (0%)	47	79

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
41	Z3	586/651 (90%)	569 (97%)	15 (3%)	2 (0%)	41 74
All	All	169703/253391 (67%)	163630 (96%)	5908 (4%)	165 (0%)	54 83

All (165) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	1A	1585	ALA
2	1A	2183	ALA
2	1A	2271	PRO
2	1B	1585	ALA
2	1B	2183	ALA
2	1B	2271	PRO
2	1C	1585	ALA
2	1C	2183	ALA
2	1C	2271	PRO
2	1D	1585	ALA
2	1D	2183	ALA
2	1D	2271	PRO
3	1F	362	PRO
3	1H	362	PRO
3	1J	362	PRO
3	1N	362	PRO
3	1R	362	PRO
8	3A	182	PRO
9	3K	159	PRO
9	3L	159	PRO
9	3M	159	PRO
9	3N	159	PRO
9	3O	159	PRO
9	3P	159	PRO
11	5B	663	LEU
11	5C	236	ASP
11	5C	348	ARG
11	5C	663	LEU
11	5D	399	PRO
18	C0	582	PRO
18	C0	1778	ASP
18	C0	1813	PRO
18	C1	1778	ASP
18	C1	1813	PRO
18	C2	1778	ASP
18	C2	1813	PRO

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Mol	Chain	Res	Type
18	C3	1778	ASP
18	C3	1813	PRO
21	F1	413	PRO
24	ND	274	PRO
24	NF	274	PRO
24	NH	274	PRO
26	O0	892	PRO
26	O0	1663	GLU
26	O1	892	PRO
27	P0	962	CYS
27	P0	1005	PRO
27	P1	962	CYS
27	P2	962	CYS
27	P3	962	CYS
28	Q1	261	PRO
29	R0	314	PRO
29	R0	404	PRO
29	R0	2013	ALA
29	R1	404	PRO
29	R1	2013	ALA
2	1A	1008	VAL
2	1A	1018	VAL
2	1B	1008	VAL
2	1B	1018	VAL
2	1C	1008	VAL
2	1C	1018	VAL
2	1D	1008	VAL
2	1D	1018	VAL
15	9E	773	ARG
15	9F	773	ARG
18	C0	873	VAL
24	SN	101	ASN
39	X2	959	VAL
41	Z3	593	ALA
2	1A	234	CYS
2	1B	234	CYS
2	1B	2075	ASN
2	1C	234	CYS
2	1D	234	CYS
15	9A	773	ARG
15	9B	773	ARG
15	9C	773	ARG

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Mol	Chain	Res	Type
15	9D	773	ARG
26	O1	636	SER
32	T3	157	THR
40	Y1	444	ARG
40	Y2	444	ARG
40	Y3	444	ARG
40	Y4	444	ARG
41	Z1	192	LYS
41	Z2	192	LYS
15	9A	1714	VAL
15	9B	1714	VAL
15	9C	1714	VAL
15	9D	1714	VAL
15	9E	1714	VAL
15	9F	1714	VAL
18	C2	873	VAL
18	C3	873	VAL
22	M1	45	PRO
26	O0	636	SER
32	T0	327	VAL
32	T1	327	VAL
32	T2	327	VAL
24	WL	218	ASP
40	Y0	444	ARG
40	Y5	444	ARG
40	Y6	444	ARG
40	Y7	444	ARG
2	1C	1926	ARG
4	2B	339	LEU
4	2B	688	ASP
15	9F	1152	VAL
18	C1	873	VAL
22	M1	702	PRO
26	O0	1544	ALA
28	Q0	1192	ALA
28	Q1	1192	ALA
41	Z3	192	LYS
2	1D	2198	PRO
4	2A	339	LEU
7	2M	228	LYS
15	9A	1152	VAL
15	9B	1152	VAL

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Mol	Chain	Res	Type
15	9C	1152	VAL
15	9D	1152	VAL
15	9E	1152	VAL
24	WB	326	LYS
19	D2	348	PRO
19	H7	348	PRO
19	K0	348	PRO
40	Y7	366	VAL
19	D1	477	ILE
19	D3	477	ILE
19	D5	477	ILE
19	D7	477	ILE
22	M0	702	PRO
28	Q0	928	HIS
2	1B	1281	THR
2	1C	1281	THR
2	1D	1281	THR
4	2A	196	THR
4	2A	342	PHE
20	E3	151	VAL
19	G0	477	ILE
19	G3	477	ILE
19	H3	348	PRO
19	H7	477	ILE
19	K1	477	ILE
19	L1	348	PRO
28	Q1	928	HIS
32	T2	420	PRO
25	VE	160	PRO
40	Y1	366	VAL
24	ZP	274	PRO
2	1A	1281	THR
4	2B	196	THR
20	E1	151	VAL
19	G1	477	ILE
19	H1	477	ILE
19	H2	477	ILE
19	J0	477	ILE
19	K3	477	ILE
23	N1	51	VAL
24	WD	274	PRO
24	WL	274	PRO

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Mol	Chain	Res	Type
40	Y3	366	VAL
40	Y5	366	VAL
24	ZD	274	PRO

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
2	1A	717/1940 (37%)	710 (99%)	7 (1%)	76 86
2	1B	717/1940 (37%)	711 (99%)	6 (1%)	81 89
2	1C	717/1940 (37%)	708 (99%)	9 (1%)	69 82
2	1D	717/1940 (37%)	711 (99%)	6 (1%)	81 89
4	2A	194/1698 (11%)	192 (99%)	2 (1%)	76 86
4	2B	203/1698 (12%)	199 (98%)	4 (2%)	55 75
14	8A	199/228 (87%)	197 (99%)	2 (1%)	76 86
14	8B	103/228 (45%)	103 (100%)	0	100 100
14	8C	214/228 (94%)	213 (100%)	1 (0%)	88 94
14	8D	103/228 (45%)	101 (98%)	2 (2%)	57 76
16	A0	107/215 (50%)	107 (100%)	0	100 100
16	A1	138/215 (64%)	137 (99%)	1 (1%)	84 91
16	A2	138/215 (64%)	138 (100%)	0	100 100
16	A3	138/215 (64%)	138 (100%)	0	100 100
16	A4	30/215 (14%)	30 (100%)	0	100 100
17	B0	190/642 (30%)	189 (100%)	1 (0%)	88 94
17	B1	368/642 (57%)	361 (98%)	7 (2%)	57 76
17	B2	186/642 (29%)	184 (99%)	2 (1%)	73 85
18	C0	887/1408 (63%)	881 (99%)	6 (1%)	84 91
18	C1	996/1408 (71%)	990 (99%)	6 (1%)	86 92
18	C2	1148/1408 (82%)	1139 (99%)	9 (1%)	81 89

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
18	C3	1139/1408 (81%)	1133 (100%)	6 (0%)	88 94
18	C4	238/1408 (17%)	234 (98%)	4 (2%)	60 78
19	D0	318/408 (78%)	317 (100%)	1 (0%)	92 96
19	D1	317/408 (78%)	316 (100%)	1 (0%)	92 96
19	D2	318/408 (78%)	316 (99%)	2 (1%)	86 92
19	D3	317/408 (78%)	317 (100%)	0	100 100
19	D4	318/408 (78%)	316 (99%)	2 (1%)	86 92
19	D5	317/408 (78%)	314 (99%)	3 (1%)	78 88
19	D6	318/408 (78%)	316 (99%)	2 (1%)	86 92
19	D7	317/408 (78%)	317 (100%)	0	100 100
19	G0	317/408 (78%)	317 (100%)	0	100 100
19	G1	317/408 (78%)	312 (98%)	5 (2%)	62 79
19	G2	317/408 (78%)	316 (100%)	1 (0%)	92 96
19	G3	317/408 (78%)	313 (99%)	4 (1%)	69 82
19	G4	317/408 (78%)	317 (100%)	0	100 100
19	G5	317/408 (78%)	314 (99%)	3 (1%)	78 88
19	H0	316/408 (78%)	314 (99%)	2 (1%)	86 92
19	H1	315/408 (77%)	312 (99%)	3 (1%)	76 86
19	H2	308/408 (76%)	305 (99%)	3 (1%)	76 86
19	H3	313/408 (77%)	313 (100%)	0	100 100
19	H4	316/408 (78%)	312 (99%)	4 (1%)	69 82
19	H5	314/408 (77%)	310 (99%)	4 (1%)	69 82
19	H6	306/408 (75%)	302 (99%)	4 (1%)	69 82
19	H7	311/408 (76%)	309 (99%)	2 (1%)	86 92
19	I0	314/408 (77%)	312 (99%)	2 (1%)	86 92
19	I1	316/408 (78%)	313 (99%)	3 (1%)	78 88
19	J0	317/408 (78%)	310 (98%)	7 (2%)	52 72
19	J1	317/408 (78%)	315 (99%)	2 (1%)	86 92
19	J2	316/408 (78%)	314 (99%)	2 (1%)	86 92
19	J3	317/408 (78%)	314 (99%)	3 (1%)	78 88
19	K0	317/408 (78%)	313 (99%)	4 (1%)	69 82

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
19	K1	317/408 (78%)	314 (99%)	3 (1%)	78 88
19	K2	317/408 (78%)	315 (99%)	2 (1%)	86 92
19	K3	316/408 (78%)	314 (99%)	2 (1%)	86 92
19	L0	378/408 (93%)	375 (99%)	3 (1%)	81 89
19	L1	376/408 (92%)	361 (96%)	15 (4%)	31 59
19	L2	376/408 (92%)	373 (99%)	3 (1%)	81 89
19	L3	378/408 (93%)	377 (100%)	1 (0%)	92 96
20	E0	203/353 (58%)	203 (100%)	0	100 100
20	E1	209/353 (59%)	208 (100%)	1 (0%)	88 94
20	E2	201/353 (57%)	201 (100%)	0	100 100
20	E3	210/353 (60%)	210 (100%)	0	100 100
21	F0	5/4033 (0%)	5 (100%)	0	100 100
21	F1	162/4033 (4%)	162 (100%)	0	100 100
21	F2	162/4033 (4%)	162 (100%)	0	100 100
21	F3	162/4033 (4%)	160 (99%)	2 (1%)	71 84
22	M0	183/746 (24%)	183 (100%)	0	100 100
22	M1	448/746 (60%)	447 (100%)	1 (0%)	93 97
23	N0	104/415 (25%)	103 (99%)	1 (1%)	76 86
23	N1	111/415 (27%)	110 (99%)	1 (1%)	78 88
23	N2	104/415 (25%)	104 (100%)	0	100 100
23	N3	113/415 (27%)	112 (99%)	1 (1%)	78 88
24	NB	362/374 (97%)	361 (100%)	1 (0%)	92 96
24	ND	362/374 (97%)	360 (99%)	2 (1%)	86 92
24	NF	362/374 (97%)	362 (100%)	0	100 100
24	NH	362/374 (97%)	362 (100%)	0	100 100
24	NJ	362/374 (97%)	361 (100%)	1 (0%)	92 96
24	NL	362/374 (97%)	361 (100%)	1 (0%)	92 96
24	NN	362/374 (97%)	361 (100%)	1 (0%)	92 96
24	OD	362/374 (97%)	360 (99%)	2 (1%)	86 92
24	OF	362/374 (97%)	362 (100%)	0	100 100
24	OH	362/374 (97%)	361 (100%)	1 (0%)	92 96

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
24	OJ	362/374 (97%)	361 (100%)	1 (0%)	92 96
24	OL	362/374 (97%)	362 (100%)	0	100 100
24	ON	362/374 (97%)	360 (99%)	2 (1%)	86 92
24	OP	362/374 (97%)	360 (99%)	2 (1%)	86 92
24	PD	361/374 (96%)	358 (99%)	3 (1%)	81 89
24	PF	362/374 (97%)	361 (100%)	1 (0%)	92 96
24	PH	362/374 (97%)	358 (99%)	4 (1%)	73 85
24	PJ	362/374 (97%)	360 (99%)	2 (1%)	86 92
24	PL	361/374 (96%)	359 (99%)	2 (1%)	86 92
24	PN	362/374 (97%)	359 (99%)	3 (1%)	81 89
24	PP	362/374 (97%)	357 (99%)	5 (1%)	67 81
24	QD	362/374 (97%)	361 (100%)	1 (0%)	92 96
24	QF	362/374 (97%)	361 (100%)	1 (0%)	92 96
24	QH	368/374 (98%)	367 (100%)	1 (0%)	92 96
24	QJ	362/374 (97%)	359 (99%)	3 (1%)	81 89
24	QL	362/374 (97%)	362 (100%)	0	100 100
24	QN	361/374 (96%)	358 (99%)	3 (1%)	81 89
24	QP	368/374 (98%)	368 (100%)	0	100 100
24	RD	362/374 (97%)	361 (100%)	1 (0%)	92 96
24	RF	362/374 (97%)	357 (99%)	5 (1%)	67 81
24	RH	362/374 (97%)	361 (100%)	1 (0%)	92 96
24	RJ	362/374 (97%)	361 (100%)	1 (0%)	92 96
24	RL	362/374 (97%)	361 (100%)	1 (0%)	92 96
24	RN	362/374 (97%)	359 (99%)	3 (1%)	81 89
24	RP	362/374 (97%)	359 (99%)	3 (1%)	81 89
24	SB	362/374 (97%)	361 (100%)	1 (0%)	92 96
24	SD	362/374 (97%)	361 (100%)	1 (0%)	92 96
24	SF	362/374 (97%)	359 (99%)	3 (1%)	81 89
24	SH	365/374 (98%)	365 (100%)	0	100 100
24	SJ	362/374 (97%)	361 (100%)	1 (0%)	92 96
24	SL	362/374 (97%)	362 (100%)	0	100 100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
24	SN	362/374 (97%)	360 (99%)	2 (1%)	86 92
24	SP	365/374 (98%)	363 (100%)	2 (0%)	88 94
24	TB	362/374 (97%)	361 (100%)	1 (0%)	92 96
24	TD	362/374 (97%)	361 (100%)	1 (0%)	92 96
24	TF	362/374 (97%)	361 (100%)	1 (0%)	92 96
24	TH	365/374 (98%)	365 (100%)	0	100 100
24	TJ	362/374 (97%)	360 (99%)	2 (1%)	86 92
24	TL	362/374 (97%)	359 (99%)	3 (1%)	81 89
24	TN	362/374 (97%)	361 (100%)	1 (0%)	92 96
24	TP	365/374 (98%)	363 (100%)	2 (0%)	88 94
24	UB	367/374 (98%)	366 (100%)	1 (0%)	92 96
24	UD	364/374 (97%)	362 (100%)	2 (0%)	88 94
24	UF	368/374 (98%)	367 (100%)	1 (0%)	92 96
24	UH	364/374 (97%)	363 (100%)	1 (0%)	92 96
24	UJ	368/374 (98%)	368 (100%)	0	100 100
24	UL	363/374 (97%)	361 (99%)	2 (1%)	86 92
24	UN	368/374 (98%)	368 (100%)	0	100 100
24	UP	363/374 (97%)	362 (100%)	1 (0%)	92 96
24	VB	362/374 (97%)	360 (99%)	2 (1%)	86 92
24	VD	362/374 (97%)	361 (100%)	1 (0%)	92 96
24	VF	362/374 (97%)	361 (100%)	1 (0%)	92 96
24	VH	365/374 (98%)	363 (100%)	2 (0%)	88 94
24	VJ	362/374 (97%)	361 (100%)	1 (0%)	92 96
24	VL	362/374 (97%)	362 (100%)	0	100 100
24	VN	362/374 (97%)	361 (100%)	1 (0%)	92 96
24	VP	362/374 (97%)	362 (100%)	0	100 100
24	WB	368/374 (98%)	367 (100%)	1 (0%)	92 96
24	WD	362/374 (97%)	362 (100%)	0	100 100
24	WF	368/374 (98%)	368 (100%)	0	100 100
24	WH	365/374 (98%)	363 (100%)	2 (0%)	88 94
24	WJ	367/374 (98%)	365 (100%)	2 (0%)	88 94

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
24	WL	363/374 (97%)	360 (99%)	3 (1%)	81 89
24	WN	368/374 (98%)	368 (100%)	0	100 100
24	XB	362/374 (97%)	362 (100%)	0	100 100
24	XD	362/374 (97%)	360 (99%)	2 (1%)	86 92
24	XF	362/374 (97%)	359 (99%)	3 (1%)	81 89
24	XH	362/374 (97%)	358 (99%)	4 (1%)	73 85
24	XJ	362/374 (97%)	358 (99%)	4 (1%)	73 85
24	XL	362/374 (97%)	359 (99%)	3 (1%)	81 89
24	XN	362/374 (97%)	357 (99%)	5 (1%)	67 81
24	YB	362/374 (97%)	361 (100%)	1 (0%)	92 96
24	YD	361/374 (96%)	360 (100%)	1 (0%)	92 96
24	YF	362/374 (97%)	360 (99%)	2 (1%)	86 92
24	YH	362/374 (97%)	361 (100%)	1 (0%)	92 96
24	YJ	362/374 (97%)	360 (99%)	2 (1%)	86 92
24	YL	362/374 (97%)	361 (100%)	1 (0%)	92 96
24	YN	362/374 (97%)	361 (100%)	1 (0%)	92 96
24	YP	362/374 (97%)	361 (100%)	1 (0%)	92 96
24	ZB	361/374 (96%)	360 (100%)	1 (0%)	92 96
24	ZD	361/374 (96%)	360 (100%)	1 (0%)	92 96
24	ZF	362/374 (97%)	361 (100%)	1 (0%)	92 96
24	ZH	362/374 (97%)	361 (100%)	1 (0%)	92 96
24	ZJ	362/374 (97%)	361 (100%)	1 (0%)	92 96
24	ZL	362/374 (97%)	360 (99%)	2 (1%)	86 92
24	ZN	362/374 (97%)	360 (99%)	2 (1%)	86 92
24	ZP	362/374 (97%)	361 (100%)	1 (0%)	92 96
25	NC	368/379 (97%)	366 (100%)	2 (0%)	88 94
25	NE	368/379 (97%)	368 (100%)	0	100 100
25	NG	368/379 (97%)	367 (100%)	1 (0%)	92 96
25	NI	368/379 (97%)	367 (100%)	1 (0%)	92 96
25	NK	368/379 (97%)	367 (100%)	1 (0%)	92 96
25	NM	368/379 (97%)	367 (100%)	1 (0%)	92 96

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
25	NO	368/379 (97%)	367 (100%)	1 (0%)	92 96
25	OC	368/379 (97%)	367 (100%)	1 (0%)	92 96
25	OE	368/379 (97%)	367 (100%)	1 (0%)	92 96
25	OG	368/379 (97%)	367 (100%)	1 (0%)	92 96
25	OI	369/379 (97%)	368 (100%)	1 (0%)	92 96
25	OK	368/379 (97%)	366 (100%)	2 (0%)	88 94
25	OM	368/379 (97%)	367 (100%)	1 (0%)	92 96
25	OO	368/379 (97%)	367 (100%)	1 (0%)	92 96
25	OQ	369/379 (97%)	367 (100%)	2 (0%)	88 94
25	PC	368/379 (97%)	368 (100%)	0	100 100
25	PE	369/379 (97%)	365 (99%)	4 (1%)	73 85
25	PG	368/379 (97%)	366 (100%)	2 (0%)	88 94
25	PI	368/379 (97%)	366 (100%)	2 (0%)	88 94
25	PK	368/379 (97%)	364 (99%)	4 (1%)	73 85
25	PM	368/379 (97%)	368 (100%)	0	100 100
25	PO	368/379 (97%)	368 (100%)	0	100 100
25	PQ	368/379 (97%)	363 (99%)	5 (1%)	67 81
25	QC	368/379 (97%)	367 (100%)	1 (0%)	92 96
25	QE	369/379 (97%)	368 (100%)	1 (0%)	92 96
25	QG	368/379 (97%)	368 (100%)	0	100 100
25	QI	368/379 (97%)	367 (100%)	1 (0%)	92 96
25	QK	368/379 (97%)	368 (100%)	0	100 100
25	QM	369/379 (97%)	368 (100%)	1 (0%)	92 96
25	QO	368/379 (97%)	365 (99%)	3 (1%)	81 89
25	QQ	368/379 (97%)	365 (99%)	3 (1%)	81 89
25	RC	368/379 (97%)	366 (100%)	2 (0%)	88 94
25	RE	368/379 (97%)	368 (100%)	0	100 100
25	RG	368/379 (97%)	365 (99%)	3 (1%)	81 89
25	RI	368/379 (97%)	367 (100%)	1 (0%)	92 96
25	RK	368/379 (97%)	367 (100%)	1 (0%)	92 96
25	RM	368/379 (97%)	368 (100%)	0	100 100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
25	RO	368/379 (97%)	366 (100%)	2 (0%)	88 94
25	SC	368/379 (97%)	367 (100%)	1 (0%)	92 96
25	SE	368/379 (97%)	366 (100%)	2 (0%)	88 94
25	SG	368/379 (97%)	368 (100%)	0	100 100
25	SI	368/379 (97%)	366 (100%)	2 (0%)	88 94
25	SK	368/379 (97%)	364 (99%)	4 (1%)	73 85
25	SM	368/379 (97%)	366 (100%)	2 (0%)	88 94
25	SO	368/379 (97%)	368 (100%)	0	100 100
25	TC	368/379 (97%)	367 (100%)	1 (0%)	92 96
25	TE	368/379 (97%)	366 (100%)	2 (0%)	88 94
25	TG	368/379 (97%)	367 (100%)	1 (0%)	92 96
25	TI	368/379 (97%)	368 (100%)	0	100 100
25	TK	368/379 (97%)	365 (99%)	3 (1%)	81 89
25	TM	368/379 (97%)	365 (99%)	3 (1%)	81 89
25	TO	368/379 (97%)	367 (100%)	1 (0%)	92 96
25	UC	371/379 (98%)	371 (100%)	0	100 100
25	UE	368/379 (97%)	367 (100%)	1 (0%)	92 96
25	UG	368/379 (97%)	367 (100%)	1 (0%)	92 96
25	UI	370/379 (98%)	368 (100%)	2 (0%)	88 94
25	UK	371/379 (98%)	369 (100%)	2 (0%)	88 94
25	UM	368/379 (97%)	368 (100%)	0	100 100
25	UO	368/379 (97%)	364 (99%)	4 (1%)	73 85
25	VC	368/379 (97%)	368 (100%)	0	100 100
25	VE	368/379 (97%)	366 (100%)	2 (0%)	88 94
25	VG	368/379 (97%)	367 (100%)	1 (0%)	92 96
25	VI	370/379 (98%)	368 (100%)	2 (0%)	88 94
25	VK	368/379 (97%)	368 (100%)	0	100 100
25	VM	368/379 (97%)	368 (100%)	0	100 100
25	VO	368/379 (97%)	366 (100%)	2 (0%)	88 94
25	WA	369/379 (97%)	369 (100%)	0	100 100
25	WC	368/379 (97%)	367 (100%)	1 (0%)	92 96

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
25	WE	369/379 (97%)	367 (100%)	2 (0%)	88 94
25	WG	368/379 (97%)	368 (100%)	0	100 100
25	WI	369/379 (97%)	368 (100%)	1 (0%)	92 96
25	WK	368/379 (97%)	368 (100%)	0	100 100
25	WM	369/379 (97%)	368 (100%)	1 (0%)	92 96
25	WO	368/379 (97%)	367 (100%)	1 (0%)	92 96
25	XA	368/379 (97%)	368 (100%)	0	100 100
25	XC	368/379 (97%)	366 (100%)	2 (0%)	88 94
25	XE	368/379 (97%)	366 (100%)	2 (0%)	88 94
25	XG	368/379 (97%)	365 (99%)	3 (1%)	81 89
25	XI	368/379 (97%)	368 (100%)	0	100 100
25	XK	368/379 (97%)	368 (100%)	0	100 100
25	XM	368/379 (97%)	368 (100%)	0	100 100
25	XO	368/379 (97%)	365 (99%)	3 (1%)	81 89
25	YC	368/379 (97%)	368 (100%)	0	100 100
25	YE	368/379 (97%)	367 (100%)	1 (0%)	92 96
25	YG	368/379 (97%)	368 (100%)	0	100 100
25	YI	369/379 (97%)	367 (100%)	2 (0%)	88 94
25	YK	368/379 (97%)	368 (100%)	0	100 100
25	YM	368/379 (97%)	365 (99%)	3 (1%)	81 89
25	YO	368/379 (97%)	368 (100%)	0	100 100
25	ZC	368/379 (97%)	367 (100%)	1 (0%)	92 96
25	ZE	368/379 (97%)	367 (100%)	1 (0%)	92 96
25	ZG	368/379 (97%)	367 (100%)	1 (0%)	92 96
25	ZI	368/379 (97%)	368 (100%)	0	100 100
25	ZK	368/379 (97%)	366 (100%)	2 (0%)	88 94
25	ZM	368/379 (97%)	365 (99%)	3 (1%)	81 89
25	ZO	368/379 (97%)	365 (99%)	3 (1%)	81 89
26	O0	154/1457 (11%)	150 (97%)	4 (3%)	46 69
26	O1	254/1457 (17%)	253 (100%)	1 (0%)	91 95
26	O2	97/1457 (7%)	96 (99%)	1 (1%)	76 86

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
28	Q0	1794/2270 (79%)	1787 (100%)	7 (0%)	91 95
28	Q1	1794/2270 (79%)	1787 (100%)	7 (0%)	91 95
29	R0	194/1962 (10%)	194 (100%)	0	100 100
29	R1	194/1962 (10%)	194 (100%)	0	100 100
30	S0	112/119 (94%)	112 (100%)	0	100 100
30	S1	112/119 (94%)	112 (100%)	0	100 100
30	S2	112/119 (94%)	111 (99%)	1 (1%)	78 88
30	S3	110/119 (92%)	110 (100%)	0	100 100
32	T0	197/2456 (8%)	197 (100%)	0	100 100
32	T1	197/2456 (8%)	197 (100%)	0	100 100
32	T2	197/2456 (8%)	194 (98%)	3 (2%)	65 81
33	U0	181/318 (57%)	180 (99%)	1 (1%)	86 92
33	U1	181/318 (57%)	180 (99%)	1 (1%)	86 92
39	X0	376/864 (44%)	374 (100%)	2 (0%)	88 94
39	X1	376/864 (44%)	375 (100%)	1 (0%)	92 96
39	X2	376/864 (44%)	374 (100%)	2 (0%)	88 94
39	X3	376/864 (44%)	370 (98%)	6 (2%)	62 79
40	Y0	383/384 (100%)	382 (100%)	1 (0%)	92 96
40	Y1	383/384 (100%)	380 (99%)	3 (1%)	81 89
40	Y2	383/384 (100%)	381 (100%)	2 (0%)	88 94
40	Y3	383/384 (100%)	375 (98%)	8 (2%)	53 74
40	Y4	383/384 (100%)	381 (100%)	2 (0%)	88 94
40	Y5	383/384 (100%)	380 (99%)	3 (1%)	81 89
40	Y6	383/384 (100%)	379 (99%)	4 (1%)	76 86
40	Y7	383/384 (100%)	382 (100%)	1 (0%)	92 96
41	Z0	496/533 (93%)	494 (100%)	2 (0%)	91 95
41	Z1	496/533 (93%)	491 (99%)	5 (1%)	76 86
41	Z2	496/533 (93%)	492 (99%)	4 (1%)	81 89
41	Z3	496/533 (93%)	494 (100%)	2 (0%)	91 95
All	All	106548/160130 (66%)	106019 (100%)	529 (0%)	89 94

All (529) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	1A	1309	ARG
2	1A	1446	ARG
2	1A	2070	ARG
2	1A	2248	LYS
2	1A	2272	ARG
2	1A	2467	ARG
2	1A	2495	LYS
2	1B	1446	ARG
2	1B	1598	GLN
2	1B	1808	GLN
2	1B	2248	LYS
2	1B	2272	ARG
2	1B	2495	LYS
2	1C	1278	ARG
2	1C	1446	ARG
2	1C	1598	GLN
2	1C	1808	GLN
2	1C	1926	ARG
2	1C	2070	ARG
2	1C	2272	ARG
2	1C	2495	LYS
2	1C	2496	ARG
2	1D	1446	ARG
2	1D	1450	GLN
2	1D	2248	LYS
2	1D	2272	ARG
2	1D	2467	ARG
2	1D	2495	LYS
4	2A	360	ARG
4	2A	389	ARG
4	2B	158	ASN
4	2B	161	LYS
4	2B	188	ARG
4	2B	235	HIS
14	8A	196	ARG
14	8A	255	ARG
14	8C	196	ARG
14	8D	91	HIS
14	8D	114	LYS
16	A1	70	ARG
17	B0	548	ARG
17	B1	300	ARG
17	B1	475	GLN

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Mol	Chain	Res	Type
17	B1	583	LYS
17	B1	630	LYS
17	B1	634	LYS
17	B1	703	GLN
17	B1	716	LYS
17	B2	310	LYS
17	B2	443	ARG
18	C0	351	ARG
18	C0	419	ARG
18	C0	451	ARG
18	C0	1220	ARG
18	C0	1353	LYS
18	C0	1431	ARG
18	C1	419	ARG
18	C1	540	ARG
18	C1	952	ARG
18	C1	1035	ASN
18	C1	1046	ARG
18	C1	1431	ARG
18	C2	136	LYS
18	C2	194	ARG
18	C2	205	ARG
18	C2	221	GLN
18	C2	618	LYS
18	C2	933	ARG
18	C2	1084	LYS
18	C2	1250	ARG
18	C2	1431	ARG
18	C3	331	ARG
18	C3	403	ARG
18	C3	451	ARG
18	C3	882	GLN
18	C3	1035	ASN
18	C3	1431	ARG
18	C4	174	LYS
18	C4	192	ARG
18	C4	235	LYS
18	C4	236	ARG
19	D0	292	ASN
19	D1	405	LYS
19	D2	95	GLN
19	D2	292	ASN

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Mol	Chain	Res	Type
19	D4	292	ASN
19	D4	402	ARG
19	D5	15	LYS
19	D5	224	LYS
19	D5	308	ASN
19	D6	8	GLN
19	D6	292	ASN
20	E1	51	ARG
21	F3	11	ARG
21	F3	38	LYS
19	G1	4	ARG
19	G1	82	ASN
19	G1	308	ASN
19	G1	365	ARG
19	G1	405	LYS
19	G2	365	ARG
19	G3	4	ARG
19	G3	70	ASN
19	G3	203	GLN
19	G3	292	ASN
19	G5	4	ARG
19	G5	287	GLN
19	G5	397	LYS
19	H0	280	LYS
19	H0	397	LYS
19	H1	12	ARG
19	H1	227	ARG
19	H1	269	LYS
19	H2	67	ARG
19	H2	196	LYS
19	H2	397	LYS
19	H4	97	ARG
19	H4	196	LYS
19	H4	238	LYS
19	H4	269	LYS
19	H5	38	GLN
19	H5	43	MET
19	H5	47	ARG
19	H5	97	ARG
19	H6	87	GLN
19	H6	196	LYS
19	H6	397	LYS

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Mol	Chain	Res	Type
19	H6	401	ARG
19	H7	97	ARG
19	H7	276	ARG
19	I0	238	LYS
19	I0	405	LYS
19	I1	97	ARG
19	I1	161	GLN
19	I1	405	LYS
19	J0	97	ARG
19	J0	238	LYS
19	J0	393	SER
19	J0	394	ASP
19	J0	395	ASP
19	J0	404	LEU
19	J0	406	SER
19	J1	276	ARG
19	J1	292	ASN
19	J2	33	ASN
19	J2	238	LYS
19	J3	12	ARG
19	J3	59	GLN
19	J3	87	GLN
19	K0	8	GLN
19	K0	238	LYS
19	K0	365	ARG
19	K0	401	ARG
19	K1	108	ARG
19	K1	224	LYS
19	K1	401	ARG
19	K2	33	ASN
19	K2	365	ARG
19	K3	108	ARG
19	K3	224	LYS
19	L0	97	ARG
19	L0	185	ARG
19	L0	365	ARG
19	L1	471	LEU
19	L1	472	LYS
19	L1	473	GLU
19	L1	475	VAL
19	L1	477	ILE
19	L1	478	ILE

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Mol	Chain	Res	Type
19	L1	479	ASN
19	L1	486	ILE
19	L1	488	LYS
19	L1	492	PRO
19	L1	493	SER
19	L1	495	SER
19	L1	496	GLN
19	L1	499	LEU
19	L1	503	GLU
19	L2	12	ARG
19	L2	161	GLN
19	L2	448	ARG
19	L3	280	LYS
22	M1	355	ARG
23	N0	139	ARG
23	N1	45	ARG
23	N3	45	ARG
24	NB	176	GLN
25	NC	2	ARG
25	NC	137	HIS
24	ND	50	ASN
24	ND	206	ASN
25	NG	280	GLN
25	NI	2	ARG
24	NJ	308	ARG
25	NK	347	ASN
24	NL	390	ARG
25	NM	347	ASN
24	NN	2	ARG
25	NO	245	GLN
26	O0	248	ARG
26	O0	294	ARG
26	O0	337	ARG
26	O0	340	GLN
26	O1	157	ARG
26	O2	174	GLN
25	OC	298	ASN
24	OD	221	ARG
24	OD	258	ASN
25	OE	2	ARG
25	OG	379	LYS
24	OH	2	ARG

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Mol	Chain	Res	Type
25	OI	362	LYS
24	OJ	243	ARG
25	OK	2	ARG
25	OK	379	LYS
25	OM	2	ARG
24	ON	2	ARG
24	ON	221	ARG
25	OO	379	LYS
24	OP	2	ARG
24	OP	393	HIS
25	OQ	99	ASN
25	OQ	347	ASN
24	PD	2	ARG
24	PD	163	LYS
24	PD	308	ARG
25	PE	241	ARG
25	PE	262	ARG
25	PE	276	ARG
25	PE	347	ASN
24	PF	308	ARG
25	PG	2	ARG
25	PG	247	ASN
24	PH	214	ARG
24	PH	243	ARG
24	PH	285	GLN
24	PH	308	ARG
25	PI	2	ARG
25	PI	99	ASN
24	PJ	2	ARG
24	PJ	373	ARG
25	PK	105	HIS
25	PK	298	ASN
25	PK	306	ARG
25	PK	347	ASN
24	PL	15	GLN
24	PL	352	LYS
24	PN	107	HIS
24	PN	308	ARG
24	PN	373	ARG
24	PP	2	ARG
24	PP	15	GLN
24	PP	214	ARG

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Mol	Chain	Res	Type
24	PP	308	ARG
24	PP	373	ARG
25	PQ	2	ARG
25	PQ	99	ASN
25	PQ	247	ASN
25	PQ	298	ASN
25	PQ	379	LYS
28	Q0	214	LYS
28	Q0	731	ARG
28	Q0	1092	ARG
28	Q0	1475	ARG
28	Q0	1535	ARG
28	Q0	2004	LYS
28	Q0	2893	HIS
28	Q1	214	LYS
28	Q1	276	ARG
28	Q1	731	ARG
28	Q1	1475	ARG
28	Q1	2004	LYS
28	Q1	2835	ARG
28	Q1	3034	HIS
25	QC	306	ARG
24	QD	2	ARG
25	QE	227	HIS
24	QF	2	ARG
24	QH	2	ARG
25	QI	2	ARG
24	QJ	2	ARG
24	QJ	214	ARG
24	QJ	339	ARG
25	QM	2	ARG
24	QN	206	ASN
24	QN	226	ASN
24	QN	326	LYS
25	QO	324	LYS
25	QO	347	ASN
25	QO	384	GLN
25	QQ	2	ARG
25	QQ	306	ARG
25	QQ	379	LYS
25	RC	2	ARG
25	RC	291	GLN

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Mol	Chain	Res	Type
24	RD	2	ARG
24	RF	2	ARG
24	RF	60	LYS
24	RF	221	ARG
24	RF	339	ARG
24	RF	422	ARG
25	RG	2	ARG
25	RG	276	ARG
25	RG	379	LYS
24	RH	308	ARG
25	RI	2	ARG
24	RJ	2	ARG
25	RK	350	LYS
24	RL	308	ARG
24	RN	2	ARG
24	RN	308	ARG
24	RN	356	ASN
25	RO	2	ARG
25	RO	306	ARG
24	RP	214	ARG
24	RP	221	ARG
24	RP	308	ARG
30	S2	81	GLN
24	SB	2	ARG
25	SC	2	ARG
24	SD	2	ARG
25	SE	2	ARG
25	SE	122	LYS
24	SF	339	ARG
24	SF	373	ARG
24	SF	401	LYS
25	SI	2	ARG
25	SI	306	ARG
24	SJ	285	GLN
25	SK	2	ARG
25	SK	122	LYS
25	SK	276	ARG
25	SK	306	ARG
25	SM	247	ASN
25	SM	336	LYS
24	SN	326	LYS
24	SN	373	ARG

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Mol	Chain	Res	Type
24	SP	206	ASN
24	SP	373	ARG
32	T2	478	LYS
32	T2	555	LYS
32	T2	575	ARG
24	TB	358	GLN
25	TC	2	ARG
24	TD	308	ARG
25	TE	2	ARG
25	TE	309	ARG
24	TF	2	ARG
25	TG	347	ASN
24	TJ	221	ARG
24	TJ	430	LYS
25	TK	204	ASN
25	TK	298	ASN
25	TK	347	ASN
24	TL	308	ARG
24	TL	373	ARG
24	TL	401	LYS
25	TM	2	ARG
25	TM	276	ARG
25	TM	298	ASN
24	TN	308	ARG
25	TO	324	LYS
24	TP	107	HIS
24	TP	380	ASN
33	U0	10	LYS
33	U1	10	LYS
24	UB	163	LYS
24	UD	2	ARG
24	UD	339	ARG
25	UE	348	ASN
24	UF	285	GLN
25	UG	306	ARG
24	UH	285	GLN
25	UI	298	ASN
25	UI	309	ARG
25	UK	298	ASN
25	UK	347	ASN
24	UL	2	ARG
24	UL	308	ARG

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Mol	Chain	Res	Type
25	UO	2	ARG
25	UO	247	ASN
25	UO	306	ARG
25	UO	347	ASN
24	UP	2	ARG
24	VB	2	ARG
24	VB	339	ARG
24	VD	50	ASN
25	VE	2	ARG
25	VE	276	ARG
24	VF	2	ARG
25	VG	1	MET
24	VH	84	ARG
24	VH	88	HIS
25	VI	162	ARG
25	VI	298	ASN
24	VJ	2	ARG
24	VN	2	ARG
25	VO	276	ARG
25	VO	306	ARG
24	WB	308	ARG
25	WC	306	ARG
25	WE	2	ARG
25	WE	336	LYS
24	WH	2	ARG
24	WH	102	ASN
25	WI	298	ASN
24	WJ	221	ARG
24	WJ	308	ARG
24	WL	11	GLN
24	WL	163	LYS
24	WL	206	ASN
25	WM	2	ARG
25	WO	350	LYS
39	X0	241	ARG
39	X0	301	HIS
39	X1	214	ARG
39	X2	214	ARG
39	X2	244	GLN
39	X3	177	ARG
39	X3	214	ARG
39	X3	244	GLN

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Mol	Chain	Res	Type
39	X3	317	LYS
39	X3	593	HIS
39	X3	596	LEU
25	XC	2	ARG
25	XC	276	ARG
24	XD	2	ARG
24	XD	308	ARG
25	XE	2	ARG
25	XE	336	LYS
24	XF	2	ARG
24	XF	163	LYS
24	XF	339	ARG
25	XG	2	ARG
25	XG	306	ARG
25	XG	362	LYS
24	XH	2	ARG
24	XH	285	GLN
24	XH	342	GLN
24	XH	373	ARG
24	XJ	2	ARG
24	XJ	128	ASN
24	XJ	163	LYS
24	XJ	308	ARG
24	XL	2	ARG
24	XL	128	ASN
24	XL	308	ARG
24	XN	50	ASN
24	XN	163	LYS
24	XN	186	ASN
24	XN	221	ARG
24	XN	339	ARG
25	XO	2	ARG
25	XO	213	ARG
25	XO	362	LYS
40	Y0	49	LYS
40	Y1	9	LYS
40	Y1	14	LYS
40	Y1	402	ARG
40	Y2	71	ARG
40	Y2	317	LYS
40	Y3	9	LYS
40	Y3	14	LYS

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Mol	Chain	Res	Type
40	Y3	53	ARG
40	Y3	54	GLN
40	Y3	244	GLN
40	Y3	330	LYS
40	Y3	402	ARG
40	Y3	456	ARG
40	Y4	49	LYS
40	Y4	330	LYS
40	Y5	14	LYS
40	Y5	402	ARG
40	Y5	456	ARG
40	Y6	49	LYS
40	Y6	54	GLN
40	Y6	71	ARG
40	Y6	330	LYS
40	Y7	456	ARG
24	YB	163	LYS
24	YD	2	ARG
25	YE	2	ARG
24	YF	2	ARG
24	YF	339	ARG
24	YH	308	ARG
25	YI	2	ARG
25	YI	137	HIS
24	YJ	163	LYS
24	YJ	339	ARG
24	YL	2	ARG
25	YM	1	MET
25	YM	2	ARG
25	YM	298	ASN
24	YN	339	ARG
24	YP	2	ARG
41	Z0	422	ARG
41	Z0	532	LYS
41	Z1	275	ARG
41	Z1	277	LYS
41	Z1	328	ARG
41	Z1	354	GLN
41	Z1	530	LYS
41	Z2	275	ARG
41	Z2	328	ARG
41	Z2	422	ARG

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Mol	Chain	Res	Type
41	Z2	539	LYS
41	Z3	277	LYS
41	Z3	499	LYS
24	ZB	373	ARG
25	ZC	2	ARG
24	ZD	221	ARG
25	ZE	298	ASN
24	ZF	163	LYS
25	ZG	306	ARG
24	ZH	2	ARG
24	ZJ	258	ASN
25	ZK	213	ARG
25	ZK	359	LYS
24	ZL	226	ASN
24	ZL	390	ARG
25	ZM	298	ASN
25	ZM	309	ARG
25	ZM	324	LYS
24	ZN	2	ARG
24	ZN	107	HIS
25	ZO	77	ARG
25	ZO	298	ASN
25	ZO	306	ARG
24	ZP	2	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (331) such sidechains are listed below:

Mol	Chain	Res	Type
2	1A	1331	GLN
2	1C	2049	ASN
2	1C	2163	GLN
2	1D	1718	ASN
2	1D	1932	GLN
2	1D	1983	HIS
4	2A	242	ASN
16	A0	86	HIS
16	A2	155	GLN
17	B1	448	GLN
17	B1	452	ASN
18	C0	636	GLN
18	C0	1647	GLN
18	C1	693	GLN

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Mol	Chain	Res	Type
18	C1	1647	GLN
18	C1	1900	GLN
18	C2	105	GLN
18	C2	1647	GLN
18	C3	636	GLN
18	C4	39	ASN
19	D1	82	ASN
19	D5	235	GLN
19	D5	308	ASN
19	D6	81	GLN
20	E2	430	HIS
19	G0	59	GLN
19	G1	82	ASN
19	G1	162	GLN
19	G1	221	GLN
19	G3	221	GLN
19	G5	113	HIS
19	H0	59	GLN
19	H1	59	GLN
19	H5	14	GLN
19	I1	58	GLN
19	I1	239	HIS
19	J1	162	GLN
19	J3	156	ASN
19	K0	8	GLN
19	K0	59	GLN
19	K0	292	ASN
19	K2	58	GLN
19	K2	197	HIS
19	K3	81	GLN
19	L2	422	HIS
23	N0	33	ASN
23	N0	71	GLN
23	N1	33	ASN
23	N1	114	HIS
23	N1	120	GLN
24	NB	101	ASN
25	NC	396	HIS
24	ND	88	HIS
25	NE	190	HIS
25	NE	414	ASN
24	NF	258	ASN

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Mol	Chain	Res	Type
25	NG	131	GLN
25	NG	396	HIS
24	NH	101	ASN
25	NI	256	ASN
25	NI	329	GLN
25	NI	426	GLN
25	NK	134	GLN
25	NK	245	GLN
24	NL	11	GLN
24	NL	197	HIS
24	NL	283	HIS
25	NM	334	GLN
24	NN	15	GLN
24	NN	380	ASN
25	NO	14	ASN
25	NO	191	GLN
25	NO	245	GLN
26	O0	340	GLN
26	O0	389	GLN
26	O2	174	GLN
25	OC	11	GLN
24	OD	285	GLN
25	OE	8	GLN
25	OE	131	GLN
25	OE	134	GLN
24	OF	186	ASN
25	OG	247	ASN
25	OG	298	ASN
24	OH	88	HIS
24	OH	101	ASN
25	OI	190	HIS
25	OI	334	GLN
25	OI	375	GLN
24	OJ	91	GLN
25	OK	191	GLN
25	OK	347	ASN
25	OK	396	HIS
24	OL	206	ASN
24	OL	226	ASN
25	OM	6	HIS
25	OM	8	GLN
25	OM	292	GLN

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Mol	Chain	Res	Type
25	OM	334	GLN
25	OM	348	ASN
25	OO	6	HIS
25	OO	8	GLN
25	OO	105	HIS
25	OQ	190	HIS
25	OQ	347	ASN
24	PD	8	HIS
24	PF	11	GLN
24	PF	15	GLN
24	PF	372	GLN
24	PF	380	ASN
24	PH	101	ASN
24	PL	15	GLN
24	PL	101	ASN
24	PL	102	ASN
25	PM	94	GLN
25	PM	256	ASN
24	PN	206	ASN
25	PO	8	GLN
25	PO	15	GLN
25	PO	247	ASN
25	PO	396	HIS
24	PP	28	HIS
24	PP	101	ASN
25	PQ	8	GLN
25	PQ	247	ASN
25	PQ	334	GLN
25	PQ	347	ASN
28	Q0	83	GLN
28	Q0	87	GLN
28	Q0	283	GLN
28	Q0	300	GLN
28	Q1	2476	HIS
25	QC	227	HIS
25	QE	8	GLN
25	QE	348	ASN
25	QG	298	ASN
24	QH	88	HIS
24	QH	133	GLN
25	QI	191	GLN
24	QJ	258	ASN

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Mol	Chain	Res	Type
25	QK	11	GLN
25	QK	15	GLN
25	QK	43	GLN
25	QK	83	GLN
24	QL	266	HIS
25	QM	8	GLN
25	QM	191	GLN
25	QM	347	ASN
25	QM	370	ASN
25	QO	11	GLN
25	QO	334	GLN
25	QQ	14	ASN
29	R1	8	HIS
25	RC	6	HIS
24	RD	329	ASN
24	RD	342	GLN
25	RE	190	HIS
24	RF	88	HIS
25	RG	334	GLN
24	RH	266	HIS
25	RI	8	GLN
25	RI	247	ASN
24	RL	15	GLN
24	RL	197	HIS
24	RL	226	ASN
24	RP	133	GLN
25	SC	256	ASN
25	SE	28	HIS
25	SE	298	ASN
24	SF	15	GLN
24	SF	283	HIS
25	SG	334	GLN
24	SH	197	HIS
25	SI	256	ASN
25	SK	256	ASN
25	SK	298	ASN
25	SM	298	ASN
24	SN	11	GLN
24	SN	15	GLN
24	SN	329	ASN
25	SO	190	HIS
25	SO	334	GLN

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Mol	Chain	Res	Type
25	SO	348	ASN
25	SO	396	HIS
25	SO	414	ASN
24	SP	8	HIS
24	TB	226	ASN
24	TD	358	GLN
25	TE	256	ASN
25	TE	347	ASN
25	TE	416	ASN
24	TF	11	GLN
25	TG	99	ASN
24	TH	91	GLN
25	TI	6	HIS
25	TI	256	ASN
24	TJ	88	HIS
25	TK	8	GLN
25	TK	134	GLN
25	TK	292	GLN
25	TK	298	ASN
25	TK	347	ASN
25	TM	131	GLN
25	TM	347	ASN
24	TN	88	HIS
24	TP	11	GLN
33	U1	101	GLN
33	U1	150	GLN
25	UC	6	HIS
24	UD	380	ASN
24	UF	50	ASN
25	UG	8	GLN
25	UG	423	GLN
25	UI	6	HIS
25	UI	14	ASN
25	UI	99	ASN
24	UJ	258	ASN
25	UK	347	ASN
24	UN	11	GLN
24	UN	258	ASN
24	UP	88	HIS
24	VB	176	GLN
25	VC	190	HIS
25	VC	291	GLN

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Mol	Chain	Res	Type
25	VC	347	ASN
24	VD	101	ASN
25	VE	99	ASN
25	VE	256	ASN
25	VE	424	GLN
24	VF	206	ASN
24	VF	258	ASN
25	VG	99	ASN
25	VG	256	ASN
25	VI	14	ASN
25	VK	94	GLN
25	VK	256	ASN
25	VK	375	GLN
25	VM	99	ASN
25	VM	247	ASN
25	VO	14	ASN
25	VO	256	ASN
25	VO	334	GLN
24	VP	258	ASN
25	WA	8	GLN
25	WA	190	HIS
24	WB	88	HIS
24	WB	258	ASN
24	WD	283	HIS
25	WE	6	HIS
25	WE	14	ASN
25	WE	131	GLN
25	WE	227	HIS
24	WF	206	ASN
25	WG	99	ASN
25	WG	426	GLN
25	WI	8	GLN
25	WK	11	GLN
24	WL	285	GLN
24	WL	380	ASN
25	WM	375	GLN
24	WN	258	ASN
39	X0	195	HIS
39	X0	244	GLN
39	X3	475	ASN
25	XA	37	HIS
24	XD	258	ASN

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Mol	Chain	Res	Type
24	XD	329	ASN
24	XF	101	ASN
24	XF	133	GLN
25	XG	334	GLN
24	XH	342	GLN
25	XI	8	GLN
25	XI	14	ASN
25	XK	256	ASN
24	XL	133	GLN
25	XM	99	ASN
25	XM	100	ASN
25	XM	247	ASN
24	XN	50	ASN
24	XN	101	ASN
25	XO	256	ASN
25	XO	298	ASN
25	XO	423	GLN
40	Y1	193	ASN
40	Y1	200	HIS
40	Y1	389	ASN
40	Y1	390	GLN
40	Y1	452	ASN
40	Y3	21	ASN
40	Y3	193	ASN
40	Y4	358	GLN
40	Y5	129	GLN
40	Y5	193	ASN
40	Y5	389	ASN
40	Y7	134	GLN
40	Y7	193	ASN
40	Y7	389	ASN
24	YB	11	GLN
25	YC	100	ASN
24	YD	176	GLN
25	YE	334	GLN
24	YF	88	HIS
24	YF	226	ASN
24	YF	283	HIS
24	YH	206	ASN
25	YI	8	GLN
24	YJ	11	GLN
25	YK	100	ASN

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Mol	Chain	Res	Type
24	YL	11	GLN
24	YL	15	GLN
24	YL	258	ASN
25	YM	247	ASN
24	YN	133	GLN
25	YO	6	HIS
25	YO	99	ASN
25	YO	256	ASN
41	Z0	447	GLN
41	Z1	447	GLN
25	ZE	334	GLN
25	ZE	348	ASN
24	ZF	11	GLN
24	ZF	15	GLN
24	ZF	31	GLN
25	ZG	334	GLN
25	ZI	105	HIS
24	ZL	15	GLN
24	ZL	101	ASN
25	ZM	256	ASN
24	ZN	88	HIS
24	ZN	406	HIS
24	ZP	358	GLN

5.3.3 RNA

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates

There are no monosaccharides in this entry.

5.6 Ligand geometry

Of 302 ligands modelled in this entry, 97 are monoatomic - leaving 205 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
44	GTP	OH	501	45	26,34,34	1.17	2 (7%)	32,54,54	1.64	7 (21%)
46	GDP	ZO	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.28	4 (13%)
44	GTP	YL	501	45	26,34,34	1.18	1 (3%)	32,54,54	1.55	8 (25%)
46	GDP	RI	502	-	24,30,30	0.94	1 (4%)	30,47,47	1.31	4 (13%)
46	GDP	UC	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.24	5 (16%)
44	GTP	RP	501	45	26,34,34	1.13	2 (7%)	32,54,54	1.56	7 (21%)
44	GTP	VB	501	45	26,34,34	1.17	2 (7%)	32,54,54	1.64	7 (21%)
46	GDP	RK	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.29	4 (13%)
46	GDP	QK	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.26	4 (13%)
44	GTP	OF	501	45	26,34,34	1.16	2 (7%)	32,54,54	1.62	7 (21%)
44	GTP	NF	501	45	26,34,34	1.14	2 (7%)	32,54,54	1.71	7 (21%)
44	GTP	PF	501	45	26,34,34	1.15	2 (7%)	32,54,54	1.65	7 (21%)
46	GDP	TC	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.36	4 (13%)
46	GDP	SK	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.31	4 (13%)
44	GTP	SB	501	45	26,34,34	1.14	2 (7%)	32,54,54	1.65	7 (21%)
46	GDP	UO	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.31	4 (13%)
44	GTP	XN	501	45	26,34,34	1.15	2 (7%)	32,54,54	1.62	7 (21%)
46	GDP	TE	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.27	4 (13%)
46	GDP	PG	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.32	4 (13%)
46	GDP	XK	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.24	4 (13%)
44	GTP	ND	501	45	26,34,34	1.14	2 (7%)	32,54,54	1.70	7 (21%)
44	GTP	TD	501	45	26,34,34	1.14	2 (7%)	32,54,54	1.66	7 (21%)
46	GDP	VG	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.31	4 (13%)
44	GTP	UD	501	45	26,34,34	1.17	2 (7%)	32,54,54	1.61	7 (21%)
44	GTP	XJ	501	45	26,34,34	1.18	2 (7%)	32,54,54	1.66	7 (21%)
44	GTP	WJ	501	45	26,34,34	1.16	2 (7%)	32,54,54	1.59	7 (21%)
46	GDP	VK	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.29	4 (13%)
44	GTP	QL	501	45	26,34,34	1.18	2 (7%)	32,54,54	1.70	7 (21%)
44	GTP	TL	501	45	26,34,34	1.17	2 (7%)	32,54,54	1.69	7 (21%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
44	GTP	YB	501	45	26,34,34	1.15	2 (7%)	32,54,54	1.65	7 (21%)
46	GDP	OC	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.31	4 (13%)
46	GDP	QC	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.28	4 (13%)
46	GDP	NM	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.27	4 (13%)
46	GDP	ZC	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.27	4 (13%)
44	GTP	OJ	501	45	26,34,34	1.17	2 (7%)	32,54,54	1.74	7 (21%)
44	GTP	XH	501	45	26,34,34	1.17	2 (7%)	32,54,54	1.60	7 (21%)
42	ADP	1A	2601	-	24,29,29	1.08	2 (8%)	29,45,45	2.13	7 (24%)
44	GTP	PD	501	45	26,34,34	1.15	2 (7%)	32,54,54	1.69	7 (21%)
46	GDP	NI	501	-	24,30,30	0.92	1 (4%)	30,47,47	1.24	4 (13%)
44	GTP	YF	501	45	26,34,34	1.15	2 (7%)	32,54,54	1.66	7 (21%)
44	GTP	UB	501	45	26,34,34	1.17	2 (7%)	32,54,54	1.67	7 (21%)
46	GDP	PC	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.34	4 (13%)
44	GTP	QP	501	45	26,34,34	1.15	2 (7%)	32,54,54	1.62	7 (21%)
46	GDP	SO	502	-	24,30,30	0.93	1 (4%)	30,47,47	1.24	3 (10%)
44	GTP	NJ	501	45	26,34,34	1.16	2 (7%)	32,54,54	1.61	7 (21%)
44	GTP	XD	501	45	26,34,34	1.15	2 (7%)	32,54,54	1.55	7 (21%)
44	GTP	OP	501	45	26,34,34	1.17	2 (7%)	32,54,54	1.60	7 (21%)
44	GTP	TH	501	45	26,34,34	1.17	2 (7%)	32,54,54	1.59	7 (21%)
44	GTP	YJ	501	45	26,34,34	1.16	2 (7%)	32,54,54	1.57	7 (21%)
44	GTP	TB	501	45	26,34,34	1.15	2 (7%)	32,54,54	1.64	7 (21%)
44	GTP	TJ	501	45	26,34,34	1.16	2 (7%)	32,54,54	1.60	7 (21%)
46	GDP	VC	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.33	4 (13%)
44	GTP	PH	501	45	26,34,34	1.17	2 (7%)	32,54,54	1.64	7 (21%)
46	GDP	OG	501	-	24,30,30	0.92	1 (4%)	30,47,47	1.27	4 (13%)
46	GDP	QQ	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.33	4 (13%)
46	GDP	ZK	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.31	4 (13%)
44	GTP	ZF	501	45	26,34,34	1.15	2 (7%)	32,54,54	1.62	7 (21%)
46	GDP	YO	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.27	3 (10%)
46	GDP	QM	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.30	5 (16%)
44	GTP	TF	501	45	26,34,34	1.14	2 (7%)	32,54,54	1.68	7 (21%)
44	GTP	SD	501	45	26,34,34	1.14	2 (7%)	32,54,54	1.60	7 (21%)
44	GTP	RJ	501	45	26,34,34	1.17	2 (7%)	32,54,54	1.64	7 (21%)
44	GTP	PN	501	45	26,34,34	1.17	2 (7%)	32,54,54	1.69	7 (21%)
46	GDP	UG	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.29	4 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
42	ADP	1B	2601	-	24,29,29	1.06	2 (8%)	29,45,45	2.33	7 (24%)
46	GDP	SC	502	-	24,30,30	0.95	1 (4%)	30,47,47	1.28	4 (13%)
44	GTP	VL	501	45	26,34,34	1.16	2 (7%)	32,54,54	1.58	8 (25%)
44	GTP	VF	501	45	26,34,34	1.16	2 (7%)	32,54,54	1.66	7 (21%)
46	GDP	XO	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.32	4 (13%)
46	GDP	WI	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.19	3 (10%)
44	GTP	NN	501	45	26,34,34	1.14	2 (7%)	32,54,54	1.65	7 (21%)
44	GTP	UJ	501	45	26,34,34	1.16	2 (7%)	32,54,54	1.61	7 (21%)
44	GTP	UN	501	45	26,34,34	1.15	2 (7%)	32,54,54	1.64	8 (25%)
46	GDP	TK	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.36	4 (13%)
44	GTP	YH	501	45	26,34,34	1.16	2 (7%)	32,54,54	1.57	7 (21%)
46	GDP	SG	502	-	24,30,30	0.96	1 (4%)	30,47,47	1.23	3 (10%)
46	GDP	XM	502	-	24,30,30	0.98	1 (4%)	30,47,47	1.26	4 (13%)
44	GTP	NB	501	45	26,34,34	1.17	2 (7%)	32,54,54	1.71	7 (21%)
44	GTP	PP	501	45	26,34,34	1.16	2 (7%)	32,54,54	1.68	7 (21%)
46	GDP	PI	502	-	24,30,30	0.93	1 (4%)	30,47,47	1.30	4 (13%)
46	GDP	OI	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.35	4 (13%)
46	GDP	TG	502	-	24,30,30	0.97	1 (4%)	30,47,47	1.26	4 (13%)
44	GTP	ZH	501	45	26,34,34	1.14	2 (7%)	32,54,54	1.61	7 (21%)
44	GTP	PL	501	45	26,34,34	1.16	2 (7%)	32,54,54	1.65	7 (21%)
43	ANP	1B	2602	-	29,33,33	1.02	3 (10%)	31,52,52	1.07	2 (6%)
42	ADP	1D	2601	-	24,29,29	1.06	2 (8%)	29,45,45	2.22	7 (24%)
44	GTP	SF	501	45	26,34,34	1.14	2 (7%)	32,54,54	1.68	7 (21%)
44	GTP	QN	501	45	26,34,34	1.16	2 (7%)	32,54,54	1.61	7 (21%)
46	GDP	YM	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.27	4 (13%)
46	GDP	ZI	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.26	4 (13%)
46	GDP	TO	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.26	4 (13%)
46	GDP	XA	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.19	3 (10%)
46	GDP	VE	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.22	4 (13%)
46	GDP	RE	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.33	4 (13%)
46	GDP	YG	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.33	4 (13%)
44	GTP	QH	501	45	26,34,34	1.15	2 (7%)	32,54,54	1.67	7 (21%)
42	ADP	1C	2601	-	24,29,29	1.07	2 (8%)	29,45,45	2.12	7 (24%)
43	ANP	1C	2602	-	29,33,33	1.09	4 (13%)	31,52,52	1.19	4 (12%)
46	GDP	RO	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.31	4 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
44	GTP	SN	501	45	26,34,34	1.16	2 (7%)	32,54,54	1.65	7 (21%)
44	GTP	QD	501	45	26,34,34	1.15	2 (7%)	32,54,54	1.58	7 (21%)
44	GTP	UF	501	45	26,34,34	1.16	2 (7%)	32,54,54	1.68	7 (21%)
44	GTP	ZD	501	45	26,34,34	1.15	2 (7%)	32,54,54	1.63	8 (25%)
43	ANP	1D	2602	-	29,33,33	1.06	4 (13%)	31,52,52	1.17	2 (6%)
46	GDP	TM	502	-	24,30,30	0.95	1 (4%)	30,47,47	1.31	4 (13%)
44	GTP	VN	501	45	26,34,34	1.17	2 (7%)	32,54,54	1.61	7 (21%)
46	GDP	TI	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.28	4 (13%)
44	GTP	TP	501	45	26,34,34	1.15	2 (7%)	32,54,54	1.56	7 (21%)
46	GDP	PO	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.34	4 (13%)
46	GDP	UI	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.21	3 (10%)
46	GDP	NG	502	-	24,30,30	0.95	1 (4%)	30,47,47	1.33	4 (13%)
44	GTP	VP	501	45	26,34,34	1.18	2 (7%)	32,54,54	1.60	7 (21%)
43	ANP	C0	2001	-	29,33,33	1.10	4 (13%)	31,52,52	1.13	2 (6%)
44	GTP	ZL	501	45	26,34,34	1.16	2 (7%)	32,54,54	1.66	7 (21%)
46	GDP	OE	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.32	4 (13%)
46	GDP	ZE	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.28	4 (13%)
44	GTP	XL	501	45	26,34,34	1.16	2 (7%)	32,54,54	1.63	7 (21%)
44	GTP	PJ	501	45	26,34,34	1.16	2 (7%)	32,54,54	1.60	8 (25%)
44	GTP	SJ	501	45	26,34,34	1.16	2 (7%)	32,54,54	1.69	7 (21%)
44	GTP	WL	501	45	26,34,34	1.15	2 (7%)	32,54,54	1.60	7 (21%)
44	GTP	RF	501	45	26,34,34	1.15	2 (7%)	32,54,54	1.55	8 (25%)
46	GDP	NK	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.31	4 (13%)
44	GTP	VJ	501	45	26,34,34	1.20	2 (7%)	32,54,54	1.61	8 (25%)
46	GDP	PQ	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.33	4 (13%)
46	GDP	QI	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.32	4 (13%)
44	GTP	QJ	501	45	26,34,34	1.18	2 (7%)	32,54,54	1.69	7 (21%)
46	GDP	OM	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.35	4 (13%)
46	GDP	QE	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.34	4 (13%)
43	ANP	1A	2602	-	29,33,33	1.04	3 (10%)	31,52,52	1.16	2 (6%)
44	GTP	RD	501	45	26,34,34	1.16	2 (7%)	32,54,54	1.66	7 (21%)
46	GDP	VM	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.11	4 (13%)
46	GDP	RC	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.35	4 (13%)
46	GDP	YC	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.36	4 (13%)
44	GTP	ON	501	45	26,34,34	1.15	2 (7%)	32,54,54	1.61	7 (21%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
46	GDP	NO	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.31	4 (13%)
46	GDP	PK	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.31	4 (13%)
44	GTP	WD	501	45	26,34,34	1.15	2 (7%)	32,54,54	1.59	7 (21%)
44	GTP	YP	501	45	26,34,34	1.17	2 (7%)	32,54,54	1.61	7 (21%)
46	GDP	YI	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.33	3 (10%)
44	GTP	XB	501	45	26,34,34	1.17	2 (7%)	32,54,54	1.66	7 (21%)
46	GDP	XI	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.21	4 (13%)
44	GTP	RL	501	45	26,34,34	1.19	2 (7%)	32,54,54	1.63	7 (21%)
46	GDP	PE	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.32	4 (13%)
46	GDP	UE	501	-	24,30,30	0.98	1 (4%)	30,47,47	1.32	4 (13%)
44	GTP	SP	501	45	26,34,34	1.14	2 (7%)	32,54,54	1.60	7 (21%)
44	GTP	SH	501	45	26,34,34	1.16	2 (7%)	32,54,54	1.64	8 (25%)
46	GDP	WM	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.31	4 (13%)
44	GTP	WN	501	45	26,34,34	1.15	2 (7%)	32,54,54	1.65	7 (21%)
44	GTP	TN	501	45	26,34,34	1.15	2 (7%)	32,54,54	1.68	7 (21%)
44	GTP	NL	501	45	26,34,34	1.15	2 (7%)	32,54,54	1.66	7 (21%)
44	GTP	UL	501	45	26,34,34	1.17	2 (7%)	32,54,54	1.67	8 (25%)
46	GDP	QO	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.23	3 (10%)
46	GDP	SM	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.33	4 (13%)
46	GDP	OQ	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.33	4 (13%)
46	GDP	VO	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.31	4 (13%)
46	GDP	XG	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.28	4 (13%)
44	GTP	WF	501	45	26,34,34	1.15	2 (7%)	32,54,54	1.68	7 (21%)
44	GTP	ZJ	501	45	26,34,34	1.16	2 (7%)	32,54,54	1.69	7 (21%)
46	GDP	RG	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.29	4 (13%)
44	GTP	XF	501	45	26,34,34	1.16	2 (7%)	32,54,54	1.54	8 (25%)
44	GTP	SL	501	45	26,34,34	1.16	2 (7%)	32,54,54	1.66	7 (21%)
46	GDP	QG	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.32	4 (13%)
46	GDP	NC	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.25	4 (13%)
46	GDP	WK	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.23	4 (13%)
46	GDP	PM	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.24	3 (10%)
46	GDP	OK	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.30	4 (13%)
46	GDP	RM	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.34	4 (13%)
46	GDP	XC	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.31	4 (13%)
44	GTP	ZN	501	45	26,34,34	1.14	2 (7%)	32,54,54	1.61	7 (21%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
44	GTP	VH	501	45	26,34,34	1.17	2 (7%)	32,54,54	1.60	7 (21%)
46	GDP	SI	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.30	5 (16%)
44	GTP	YN	501	45	26,34,34	1.17	2 (7%)	32,54,54	1.65	8 (25%)
46	GDP	OO	501	-	24,30,30	0.92	1 (4%)	30,47,47	1.34	5 (16%)
44	GTP	OL	501	45	26,34,34	1.17	2 (7%)	32,54,54	1.59	8 (25%)
44	GTP	YD	501	45	26,34,34	1.15	2 (7%)	32,54,54	1.60	8 (25%)
44	GTP	ZP	501	45	26,34,34	1.15	2 (7%)	32,54,54	1.64	7 (21%)
44	GTP	WB	501	45	26,34,34	1.16	2 (7%)	32,54,54	1.59	7 (21%)
46	GDP	YE	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.30	4 (13%)
44	GTP	NH	501	45	26,34,34	1.16	2 (7%)	32,54,54	1.63	7 (21%)
44	GTP	RN	501	45	26,34,34	1.15	2 (7%)	32,54,54	1.62	6 (18%)
46	GDP	ZM	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.27	4 (13%)
44	GTP	WH	501	45	26,34,34	1.18	2 (7%)	32,54,54	1.61	7 (21%)
43	ANP	C2	2001	-	29,33,33	1.09	4 (13%)	31,52,52	1.13	3 (9%)
44	GTP	ZB	501	45	26,34,34	1.16	2 (7%)	32,54,54	1.62	7 (21%)
46	GDP	VI	501	-	24,30,30	0.94	1 (4%)	30,47,47	1.31	4 (13%)
46	GDP	WC	501	-	24,30,30	0.97	1 (4%)	30,47,47	1.28	4 (13%)
46	GDP	ZG	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.26	4 (13%)
44	GTP	VD	501	45	26,34,34	1.15	2 (7%)	32,54,54	1.58	7 (21%)
43	ANP	C1	2001	-	29,33,33	1.10	3 (10%)	31,52,52	1.28	2 (6%)
44	GTP	RH	501	45	26,34,34	1.17	2 (7%)	32,54,54	1.55	7 (21%)
46	GDP	NE	501	-	24,30,30	0.99	1 (4%)	30,47,47	1.24	4 (13%)
46	GDP	WE	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.31	3 (10%)
46	GDP	XE	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.27	4 (13%)
44	GTP	UH	501	45	26,34,34	1.17	2 (7%)	32,54,54	1.64	7 (21%)
44	GTP	QF	501	45	26,34,34	1.15	2 (7%)	32,54,54	1.66	7 (21%)
44	GTP	UP	501	45	26,34,34	1.15	2 (7%)	32,54,54	1.63	7 (21%)
46	GDP	UK	501	-	24,30,30	0.93	1 (4%)	30,47,47	1.25	4 (13%)
46	GDP	WG	502	-	24,30,30	0.94	1 (4%)	30,47,47	1.28	4 (13%)
44	GTP	OD	501	45	26,34,34	1.15	2 (7%)	32,54,54	1.68	7 (21%)
46	GDP	UM	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.22	4 (13%)
46	GDP	WO	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.35	4 (13%)
46	GDP	SE	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.30	4 (13%)
46	GDP	WA	501	-	24,30,30	0.95	1 (4%)	30,47,47	1.28	3 (10%)
43	ANP	C3	2001	-	29,33,33	1.11	5 (17%)	31,52,52	1.25	2 (6%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
46	GDP	YK	501	-	24,30,30	0.96	1 (4%)	30,47,47	1.28	4 (13%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
44	GTP	OH	501	45	-	4/18/38/38	0/3/3/3
46	GDP	ZO	501	-	-	2/12/32/32	0/3/3/3
44	GTP	YL	501	45	-	4/18/38/38	0/3/3/3
46	GDP	RI	502	-	-	0/12/32/32	0/3/3/3
46	GDP	UC	501	-	-	1/12/32/32	0/3/3/3
44	GTP	RP	501	45	-	5/18/38/38	0/3/3/3
44	GTP	VB	501	45	-	3/18/38/38	0/3/3/3
46	GDP	RK	501	-	-	1/12/32/32	0/3/3/3
46	GDP	QK	501	-	-	0/12/32/32	0/3/3/3
44	GTP	OF	501	45	-	2/18/38/38	0/3/3/3
44	GTP	NF	501	45	-	1/18/38/38	0/3/3/3
44	GTP	PF	501	45	-	5/18/38/38	0/3/3/3
46	GDP	TC	501	-	-	1/12/32/32	0/3/3/3
46	GDP	SK	501	-	-	1/12/32/32	0/3/3/3
44	GTP	SB	501	45	-	3/18/38/38	0/3/3/3
46	GDP	UO	501	-	-	2/12/32/32	0/3/3/3
44	GTP	XN	501	45	-	2/18/38/38	0/3/3/3
46	GDP	TE	501	-	-	1/12/32/32	0/3/3/3
46	GDP	PG	501	-	-	0/12/32/32	0/3/3/3
46	GDP	XK	501	-	-	1/12/32/32	0/3/3/3
44	GTP	ND	501	45	-	7/18/38/38	0/3/3/3
44	GTP	TD	501	45	-	3/18/38/38	0/3/3/3
46	GDP	VG	501	-	-	2/12/32/32	0/3/3/3
44	GTP	UD	501	45	-	4/18/38/38	0/3/3/3
44	GTP	XJ	501	45	-	1/18/38/38	0/3/3/3
44	GTP	WJ	501	45	-	7/18/38/38	0/3/3/3
46	GDP	VK	501	-	-	0/12/32/32	0/3/3/3
44	GTP	QL	501	45	-	4/18/38/38	0/3/3/3
44	GTP	TL	501	45	-	3/18/38/38	0/3/3/3
44	GTP	YB	501	45	-	7/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
46	GDP	OC	501	-	-	2/12/32/32	0/3/3/3
46	GDP	QC	501	-	-	0/12/32/32	0/3/3/3
46	GDP	NM	501	-	-	1/12/32/32	0/3/3/3
46	GDP	ZC	501	-	-	0/12/32/32	0/3/3/3
44	GTP	OJ	501	45	-	4/18/38/38	0/3/3/3
44	GTP	XH	501	45	-	6/18/38/38	0/3/3/3
42	ADP	1A	2601	-	-	7/12/32/32	0/3/3/3
44	GTP	PD	501	45	-	3/18/38/38	0/3/3/3
46	GDP	NI	501	-	-	1/12/32/32	0/3/3/3
44	GTP	YF	501	45	-	5/18/38/38	0/3/3/3
44	GTP	UB	501	45	-	2/18/38/38	0/3/3/3
46	GDP	PC	501	-	-	1/12/32/32	0/3/3/3
44	GTP	QP	501	45	-	7/18/38/38	0/3/3/3
46	GDP	SO	502	-	-	2/12/32/32	0/3/3/3
44	GTP	NJ	501	45	-	6/18/38/38	0/3/3/3
44	GTP	XD	501	45	-	0/18/38/38	0/3/3/3
44	GTP	OP	501	45	-	4/18/38/38	0/3/3/3
44	GTP	TH	501	45	-	5/18/38/38	0/3/3/3
44	GTP	YJ	501	45	-	5/18/38/38	0/3/3/3
44	GTP	TB	501	45	-	4/18/38/38	0/3/3/3
44	GTP	TJ	501	45	-	5/18/38/38	0/3/3/3
46	GDP	VC	501	-	-	0/12/32/32	0/3/3/3
44	GTP	PH	501	45	-	8/18/38/38	0/3/3/3
46	GDP	OG	501	-	-	0/12/32/32	0/3/3/3
46	GDP	QQ	501	-	-	1/12/32/32	0/3/3/3
46	GDP	ZK	501	-	-	1/12/32/32	0/3/3/3
44	GTP	ZF	501	45	-	4/18/38/38	0/3/3/3
46	GDP	YO	501	-	-	3/12/32/32	0/3/3/3
46	GDP	QM	501	-	-	2/12/32/32	0/3/3/3
44	GTP	TF	501	45	-	2/18/38/38	0/3/3/3
44	GTP	SD	501	45	-	7/18/38/38	0/3/3/3
44	GTP	RJ	501	45	-	7/18/38/38	0/3/3/3
44	GTP	PN	501	45	-	4/18/38/38	0/3/3/3
46	GDP	UG	501	-	-	0/12/32/32	0/3/3/3
42	ADP	1B	2601	-	-	7/12/32/32	0/3/3/3
46	GDP	SC	502	-	-	1/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
44	GTP	VL	501	45	-	4/18/38/38	0/3/3/3
44	GTP	VF	501	45	-	3/18/38/38	0/3/3/3
46	GDP	XO	501	-	-	2/12/32/32	0/3/3/3
46	GDP	WI	501	-	-	0/12/32/32	0/3/3/3
44	GTP	NN	501	45	-	4/18/38/38	0/3/3/3
44	GTP	UJ	501	45	-	3/18/38/38	0/3/3/3
44	GTP	UN	501	45	-	4/18/38/38	0/3/3/3
46	GDP	TK	501	-	-	3/12/32/32	0/3/3/3
44	GTP	YH	501	45	-	4/18/38/38	0/3/3/3
46	GDP	SG	502	-	-	2/12/32/32	0/3/3/3
46	GDP	XM	502	-	-	2/12/32/32	0/3/3/3
44	GTP	NB	501	45	-	6/18/38/38	0/3/3/3
44	GTP	PP	501	45	-	9/18/38/38	0/3/3/3
46	GDP	PI	502	-	-	0/12/32/32	0/3/3/3
46	GDP	OI	501	-	-	2/12/32/32	0/3/3/3
46	GDP	TG	502	-	-	0/12/32/32	0/3/3/3
44	GTP	ZH	501	45	-	4/18/38/38	0/3/3/3
44	GTP	PL	501	45	-	2/18/38/38	0/3/3/3
43	ANP	1B	2602	-	-	10/14/38/38	0/3/3/3
42	ADP	1D	2601	-	-	6/12/32/32	0/3/3/3
44	GTP	SF	501	45	-	5/18/38/38	0/3/3/3
44	GTP	QN	501	45	-	6/18/38/38	0/3/3/3
46	GDP	YM	501	-	-	2/12/32/32	0/3/3/3
46	GDP	ZI	501	-	-	0/12/32/32	0/3/3/3
46	GDP	TO	501	-	-	0/12/32/32	0/3/3/3
46	GDP	XA	501	-	-	1/12/32/32	0/3/3/3
46	GDP	VE	501	-	-	0/12/32/32	0/3/3/3
46	GDP	RE	501	-	-	3/12/32/32	0/3/3/3
46	GDP	YG	501	-	-	1/12/32/32	0/3/3/3
44	GTP	QH	501	45	-	5/18/38/38	0/3/3/3
42	ADP	1C	2601	-	-	7/12/32/32	0/3/3/3
43	ANP	1C	2602	-	-	9/14/38/38	0/3/3/3
46	GDP	RO	501	-	-	2/12/32/32	0/3/3/3
44	GTP	SN	501	45	-	3/18/38/38	0/3/3/3
44	GTP	QD	501	45	-	4/18/38/38	0/3/3/3
44	GTP	UF	501	45	-	3/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
44	GTP	ZD	501	45	-	4/18/38/38	0/3/3/3
43	ANP	1D	2602	-	-	11/14/38/38	0/3/3/3
46	GDP	TM	502	-	-	0/12/32/32	0/3/3/3
44	GTP	VN	501	45	-	1/18/38/38	0/3/3/3
46	GDP	TI	501	-	-	2/12/32/32	0/3/3/3
44	GTP	TP	501	45	-	4/18/38/38	0/3/3/3
46	GDP	PO	501	-	-	1/12/32/32	0/3/3/3
46	GDP	UI	501	-	-	0/12/32/32	0/3/3/3
46	GDP	NG	502	-	-	3/12/32/32	0/3/3/3
44	GTP	VP	501	45	-	3/18/38/38	0/3/3/3
43	ANP	C0	2001	-	-	2/14/38/38	0/3/3/3
44	GTP	ZL	501	45	-	1/18/38/38	0/3/3/3
46	GDP	OE	501	-	-	2/12/32/32	0/3/3/3
46	GDP	ZE	501	-	-	1/12/32/32	0/3/3/3
44	GTP	XL	501	45	-	6/18/38/38	0/3/3/3
44	GTP	PJ	501	45	-	4/18/38/38	0/3/3/3
44	GTP	SJ	501	45	-	0/18/38/38	0/3/3/3
44	GTP	WL	501	45	-	6/18/38/38	0/3/3/3
44	GTP	RF	501	45	-	4/18/38/38	0/3/3/3
46	GDP	NK	501	-	-	1/12/32/32	0/3/3/3
44	GTP	VJ	501	45	-	6/18/38/38	0/3/3/3
46	GDP	PQ	501	-	-	1/12/32/32	0/3/3/3
46	GDP	QI	501	-	-	1/12/32/32	0/3/3/3
44	GTP	QJ	501	45	-	1/18/38/38	0/3/3/3
46	GDP	OM	501	-	-	2/12/32/32	0/3/3/3
46	GDP	QE	501	-	-	2/12/32/32	0/3/3/3
43	ANP	1A	2602	-	-	10/14/38/38	0/3/3/3
44	GTP	RD	501	45	-	3/18/38/38	0/3/3/3
46	GDP	VM	501	-	-	4/12/32/32	0/3/3/3
46	GDP	RC	501	-	-	0/12/32/32	0/3/3/3
46	GDP	YC	501	-	-	3/12/32/32	0/3/3/3
44	GTP	ON	501	45	-	3/18/38/38	0/3/3/3
46	GDP	NO	501	-	-	1/12/32/32	0/3/3/3
46	GDP	PK	501	-	-	3/12/32/32	0/3/3/3
44	GTP	WD	501	45	-	5/18/38/38	0/3/3/3
44	GTP	YP	501	45	-	4/18/38/38	0/3/3/3
46	GDP	YI	501	-	-	3/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
44	GTP	XB	501	45	-	2/18/38/38	0/3/3/3
46	GDP	XI	501	-	-	1/12/32/32	0/3/3/3
44	GTP	RL	501	45	-	4/18/38/38	0/3/3/3
46	GDP	PE	501	-	-	2/12/32/32	0/3/3/3
46	GDP	UE	501	-	-	1/12/32/32	0/3/3/3
44	GTP	SP	501	45	-	2/18/38/38	0/3/3/3
44	GTP	SH	501	45	-	7/18/38/38	0/3/3/3
46	GDP	WM	501	-	-	0/12/32/32	0/3/3/3
44	GTP	WN	501	45	-	7/18/38/38	0/3/3/3
44	GTP	TN	501	45	-	2/18/38/38	0/3/3/3
44	GTP	NL	501	45	-	4/18/38/38	0/3/3/3
44	GTP	UL	501	45	-	7/18/38/38	0/3/3/3
46	GDP	QO	501	-	-	1/12/32/32	0/3/3/3
46	GDP	SM	501	-	-	0/12/32/32	0/3/3/3
46	GDP	OQ	501	-	-	1/12/32/32	0/3/3/3
46	GDP	VO	501	-	-	2/12/32/32	0/3/3/3
46	GDP	XG	501	-	-	3/12/32/32	0/3/3/3
44	GTP	WF	501	45	-	3/18/38/38	0/3/3/3
44	GTP	ZJ	501	45	-	4/18/38/38	0/3/3/3
46	GDP	RG	501	-	-	2/12/32/32	0/3/3/3
44	GTP	XF	501	45	-	4/18/38/38	0/3/3/3
44	GTP	SL	501	45	-	2/18/38/38	0/3/3/3
46	GDP	QG	501	-	-	1/12/32/32	0/3/3/3
46	GDP	NC	501	-	-	2/12/32/32	0/3/3/3
46	GDP	WK	501	-	-	0/12/32/32	0/3/3/3
46	GDP	PM	501	-	-	0/12/32/32	0/3/3/3
46	GDP	OK	501	-	-	2/12/32/32	0/3/3/3
46	GDP	RM	501	-	-	3/12/32/32	0/3/3/3
46	GDP	XC	501	-	-	2/12/32/32	0/3/3/3
44	GTP	ZN	501	45	-	6/18/38/38	0/3/3/3
44	GTP	VH	501	45	-	4/18/38/38	0/3/3/3
46	GDP	SI	501	-	-	0/12/32/32	0/3/3/3
44	GTP	YN	501	45	-	2/18/38/38	0/3/3/3
46	GDP	OO	501	-	-	2/12/32/32	0/3/3/3
44	GTP	OL	501	45	-	6/18/38/38	0/3/3/3
44	GTP	YD	501	45	-	1/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
44	GTP	ZP	501	45	-	4/18/38/38	0/3/3/3
44	GTP	WB	501	45	-	3/18/38/38	0/3/3/3
46	GDP	YE	501	-	-	2/12/32/32	0/3/3/3
44	GTP	NH	501	45	-	6/18/38/38	0/3/3/3
44	GTP	RN	501	45	-	4/18/38/38	0/3/3/3
46	GDP	ZM	501	-	-	2/12/32/32	0/3/3/3
44	GTP	WH	501	45	-	6/18/38/38	0/3/3/3
43	ANP	C2	2001	-	-	2/14/38/38	0/3/3/3
44	GTP	ZB	501	45	-	4/18/38/38	0/3/3/3
46	GDP	VI	501	-	-	4/12/32/32	0/3/3/3
46	GDP	WC	501	-	-	4/12/32/32	0/3/3/3
46	GDP	ZG	501	-	-	2/12/32/32	0/3/3/3
44	GTP	VD	501	45	-	3/18/38/38	0/3/3/3
43	ANP	C1	2001	-	-	3/14/38/38	0/3/3/3
44	GTP	RH	501	45	-	6/18/38/38	0/3/3/3
46	GDP	NE	501	-	-	1/12/32/32	0/3/3/3
46	GDP	WE	501	-	-	2/12/32/32	0/3/3/3
46	GDP	XE	501	-	-	1/12/32/32	0/3/3/3
44	GTP	UH	501	45	-	4/18/38/38	0/3/3/3
44	GTP	QF	501	45	-	3/18/38/38	0/3/3/3
44	GTP	UP	501	45	-	4/18/38/38	0/3/3/3
46	GDP	UK	501	-	-	1/12/32/32	0/3/3/3
46	GDP	WG	502	-	-	0/12/32/32	0/3/3/3
44	GTP	OD	501	45	-	8/18/38/38	0/3/3/3
46	GDP	UM	501	-	-	0/12/32/32	0/3/3/3
46	GDP	WO	501	-	-	0/12/32/32	0/3/3/3
46	GDP	SE	501	-	-	2/12/32/32	0/3/3/3
46	GDP	WA	501	-	-	2/12/32/32	0/3/3/3
43	ANP	C3	2001	-	-	5/14/38/38	0/3/3/3
46	GDP	YK	501	-	-	0/12/32/32	0/3/3/3

All (327) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
44	VP	501	GTP	C5-C6	-4.29	1.38	1.47
44	RL	501	GTP	C5-C6	-4.27	1.38	1.47
44	XJ	501	GTP	C5-C6	-4.23	1.38	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
44	ZL	501	GTP	C5-C6	-4.22	1.38	1.47
44	QL	501	GTP	C5-C6	-4.21	1.38	1.47
44	VJ	501	GTP	C5-C6	-4.21	1.38	1.47
44	YP	501	GTP	C5-C6	-4.20	1.38	1.47
44	QJ	501	GTP	C5-C6	-4.20	1.38	1.47
44	VL	501	GTP	C5-C6	-4.20	1.38	1.47
44	XH	501	GTP	C5-C6	-4.19	1.38	1.47
44	WH	501	GTP	C5-C6	-4.18	1.38	1.47
44	OJ	501	GTP	C5-C6	-4.18	1.38	1.47
44	YL	501	GTP	C5-C6	-4.18	1.38	1.47
44	TL	501	GTP	C5-C6	-4.17	1.38	1.47
44	SN	501	GTP	C5-C6	-4.17	1.38	1.47
44	VH	501	GTP	C5-C6	-4.17	1.38	1.47
44	XB	501	GTP	C5-C6	-4.17	1.39	1.47
44	YJ	501	GTP	C5-C6	-4.16	1.39	1.47
44	OL	501	GTP	C5-C6	-4.16	1.39	1.47
44	ON	501	GTP	C5-C6	-4.15	1.39	1.47
44	PH	501	GTP	C5-C6	-4.15	1.39	1.47
44	ZB	501	GTP	C5-C6	-4.15	1.39	1.47
44	PN	501	GTP	C5-C6	-4.15	1.39	1.47
44	UB	501	GTP	C5-C6	-4.15	1.39	1.47
44	VN	501	GTP	C5-C6	-4.15	1.39	1.47
44	QN	501	GTP	C5-C6	-4.15	1.39	1.47
44	NB	501	GTP	C5-C6	-4.14	1.39	1.47
44	XL	501	GTP	C5-C6	-4.14	1.39	1.47
44	RH	501	GTP	C5-C6	-4.14	1.39	1.47
44	NJ	501	GTP	C5-C6	-4.14	1.39	1.47
44	TH	501	GTP	C5-C6	-4.14	1.39	1.47
44	VB	501	GTP	C5-C6	-4.14	1.39	1.47
44	VF	501	GTP	C5-C6	-4.13	1.39	1.47
44	TJ	501	GTP	C5-C6	-4.13	1.39	1.47
44	YN	501	GTP	C5-C6	-4.13	1.39	1.47
44	OP	501	GTP	C5-C6	-4.13	1.39	1.47
44	ZJ	501	GTP	C5-C6	-4.13	1.39	1.47
44	OF	501	GTP	C5-C6	-4.12	1.39	1.47
44	SL	501	GTP	C5-C6	-4.12	1.39	1.47
44	UD	501	GTP	C5-C6	-4.11	1.39	1.47
44	OH	501	GTP	C5-C6	-4.11	1.39	1.47
44	YD	501	GTP	C5-C6	-4.11	1.39	1.47
44	QF	501	GTP	C5-C6	-4.11	1.39	1.47
44	ZD	501	GTP	C5-C6	-4.11	1.39	1.47
44	XF	501	GTP	C5-C6	-4.11	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
44	UF	501	GTP	C5-C6	-4.10	1.39	1.47
44	YH	501	GTP	C5-C6	-4.10	1.39	1.47
44	TB	501	GTP	C5-C6	-4.10	1.39	1.47
44	UL	501	GTP	C5-C6	-4.10	1.39	1.47
44	WB	501	GTP	C5-C6	-4.10	1.39	1.47
44	UH	501	GTP	C5-C6	-4.10	1.39	1.47
44	UJ	501	GTP	C5-C6	-4.10	1.39	1.47
44	VD	501	GTP	C5-C6	-4.10	1.39	1.47
44	WL	501	GTP	C5-C6	-4.10	1.39	1.47
44	NL	501	GTP	C5-C6	-4.10	1.39	1.47
44	TP	501	GTP	C5-C6	-4.09	1.39	1.47
44	UP	501	GTP	C5-C6	-4.09	1.39	1.47
44	OD	501	GTP	C5-C6	-4.09	1.39	1.47
44	PL	501	GTP	C5-C6	-4.09	1.39	1.47
44	UN	501	GTP	C5-C6	-4.09	1.39	1.47
44	PF	501	GTP	C5-C6	-4.09	1.39	1.47
44	ZP	501	GTP	C5-C6	-4.09	1.39	1.47
44	WJ	501	GTP	C5-C6	-4.09	1.39	1.47
44	WD	501	GTP	C5-C6	-4.09	1.39	1.47
44	RJ	501	GTP	C5-C6	-4.08	1.39	1.47
44	SH	501	GTP	C5-C6	-4.08	1.39	1.47
44	QD	501	GTP	C5-C6	-4.08	1.39	1.47
44	RD	501	GTP	C5-C6	-4.08	1.39	1.47
44	PJ	501	GTP	C5-C6	-4.08	1.39	1.47
44	SB	501	GTP	C5-C6	-4.07	1.39	1.47
44	PP	501	GTP	C5-C6	-4.07	1.39	1.47
44	TN	501	GTP	C5-C6	-4.07	1.39	1.47
44	SJ	501	GTP	C5-C6	-4.07	1.39	1.47
44	XN	501	GTP	C5-C6	-4.07	1.39	1.47
44	PD	501	GTP	C5-C6	-4.06	1.39	1.47
44	ZF	501	GTP	C5-C6	-4.06	1.39	1.47
44	WF	501	GTP	C5-C6	-4.06	1.39	1.47
44	YF	501	GTP	C5-C6	-4.06	1.39	1.47
44	ND	501	GTP	C5-C6	-4.06	1.39	1.47
44	WN	501	GTP	C5-C6	-4.06	1.39	1.47
44	YB	501	GTP	C5-C6	-4.06	1.39	1.47
44	XD	501	GTP	C5-C6	-4.06	1.39	1.47
44	TD	501	GTP	C5-C6	-4.05	1.39	1.47
44	SP	501	GTP	C5-C6	-4.05	1.39	1.47
44	RN	501	GTP	C5-C6	-4.04	1.39	1.47
44	NH	501	GTP	C5-C6	-4.04	1.39	1.47
44	ZN	501	GTP	C5-C6	-4.04	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
44	SF	501	GTP	C5-C6	-4.04	1.39	1.47
44	SD	501	GTP	C5-C6	-4.03	1.39	1.47
44	RF	501	GTP	C5-C6	-4.03	1.39	1.47
44	NF	501	GTP	C5-C6	-4.03	1.39	1.47
44	QP	501	GTP	C5-C6	-4.02	1.39	1.47
44	TF	501	GTP	C5-C6	-4.02	1.39	1.47
44	NN	501	GTP	C5-C6	-4.01	1.39	1.47
44	QH	501	GTP	C5-C6	-4.00	1.39	1.47
44	RP	501	GTP	C5-C6	-4.00	1.39	1.47
44	ZH	501	GTP	C5-C6	-3.97	1.39	1.47
42	1A	2601	ADP	C5-C4	3.23	1.49	1.40
42	1C	2601	ADP	C5-C4	3.17	1.49	1.40
42	1D	2601	ADP	C5-C4	3.16	1.49	1.40
42	1B	2601	ADP	C5-C4	3.11	1.49	1.40
46	OK	501	GDP	C6-N1	-2.64	1.33	1.37
46	QK	501	GDP	C6-N1	-2.63	1.34	1.37
46	TK	501	GDP	C6-N1	-2.62	1.34	1.37
46	VG	501	GDP	C6-N1	-2.62	1.34	1.37
46	OC	501	GDP	C6-N1	-2.60	1.34	1.37
46	TG	502	GDP	C6-N1	-2.59	1.34	1.37
43	C3	2001	ANP	C4-N3	-2.59	1.32	1.35
46	WM	501	GDP	C6-N1	-2.59	1.34	1.37
46	YG	501	GDP	C6-N1	-2.58	1.34	1.37
42	1B	2601	ADP	C6-C5	2.58	1.52	1.43
46	ZI	501	GDP	C6-N1	-2.58	1.34	1.37
46	PC	501	GDP	C6-N1	-2.57	1.34	1.37
46	PK	501	GDP	C6-N1	-2.57	1.34	1.37
46	TM	502	GDP	C6-N1	-2.56	1.34	1.37
46	QI	501	GDP	C6-N1	-2.56	1.34	1.37
46	NK	501	GDP	C6-N1	-2.56	1.34	1.37
46	SK	501	GDP	C6-N1	-2.55	1.34	1.37
46	XM	502	GDP	C6-N1	-2.55	1.34	1.37
46	UG	501	GDP	C6-N1	-2.55	1.34	1.37
46	OG	501	GDP	C6-N1	-2.55	1.34	1.37
46	NG	502	GDP	C6-N1	-2.55	1.34	1.37
46	WK	501	GDP	C6-N1	-2.55	1.34	1.37
46	SM	501	GDP	C6-N1	-2.54	1.34	1.37
46	PM	501	GDP	C6-N1	-2.54	1.34	1.37
46	SI	501	GDP	C6-N1	-2.53	1.34	1.37
46	VO	501	GDP	C6-N1	-2.53	1.34	1.37
42	1D	2601	ADP	C6-C5	2.53	1.52	1.43
46	VM	501	GDP	C6-N1	-2.53	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
46	PG	501	GDP	C6-N1	-2.53	1.34	1.37
46	YI	501	GDP	C6-N1	-2.53	1.34	1.37
46	ZG	501	GDP	C6-N1	-2.53	1.34	1.37
46	WI	501	GDP	C6-N1	-2.53	1.34	1.37
46	SE	501	GDP	C6-N1	-2.52	1.34	1.37
46	UO	501	GDP	C6-N1	-2.52	1.34	1.37
46	UE	501	GDP	C6-N1	-2.52	1.34	1.37
46	QO	501	GDP	C6-N1	-2.52	1.34	1.37
46	RC	501	GDP	C6-N1	-2.52	1.34	1.37
46	QQ	501	GDP	C6-N1	-2.52	1.34	1.37
46	TC	501	GDP	C6-N1	-2.52	1.34	1.37
43	C1	2001	ANP	PG-O1G	2.52	1.50	1.46
46	OI	501	GDP	C6-N1	-2.51	1.34	1.37
46	WO	501	GDP	C6-N1	-2.51	1.34	1.37
46	PQ	501	GDP	C6-N1	-2.51	1.34	1.37
46	RI	502	GDP	C6-N1	-2.51	1.34	1.37
46	WG	502	GDP	C6-N1	-2.51	1.34	1.37
46	QC	501	GDP	C6-N1	-2.51	1.34	1.37
46	ZE	501	GDP	C6-N1	-2.50	1.34	1.37
46	ZO	501	GDP	C6-N1	-2.50	1.34	1.37
46	ZM	501	GDP	C6-N1	-2.50	1.34	1.37
46	UM	501	GDP	C6-N1	-2.50	1.34	1.37
46	YK	501	GDP	C6-N1	-2.50	1.34	1.37
43	C1	2001	ANP	PG-N3B	2.49	1.69	1.63
46	WC	501	GDP	C6-N1	-2.49	1.34	1.37
46	QG	501	GDP	C6-N1	-2.49	1.34	1.37
46	ZK	501	GDP	C6-N1	-2.49	1.34	1.37
46	YM	501	GDP	C6-N1	-2.49	1.34	1.37
46	YO	501	GDP	C6-N1	-2.49	1.34	1.37
46	PO	501	GDP	C6-N1	-2.48	1.34	1.37
43	C3	2001	ANP	PG-N3B	2.48	1.69	1.63
46	XI	501	GDP	C6-N1	-2.48	1.34	1.37
46	TI	501	GDP	C6-N1	-2.48	1.34	1.37
46	RK	501	GDP	C6-N1	-2.48	1.34	1.37
42	1A	2601	ADP	C6-C5	2.48	1.52	1.43
46	SC	502	GDP	C6-N1	-2.48	1.34	1.37
43	C0	2001	ANP	PB-O3A	-2.47	1.56	1.59
46	RE	501	GDP	C6-N1	-2.47	1.34	1.37
46	OQ	501	GDP	C6-N1	-2.47	1.34	1.37
46	XA	501	GDP	C6-N1	-2.47	1.34	1.37
46	TO	501	GDP	C6-N1	-2.47	1.34	1.37
46	SG	502	GDP	C6-N1	-2.46	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
46	VC	501	GDP	C6-N1	-2.46	1.34	1.37
46	UI	501	GDP	C6-N1	-2.46	1.34	1.37
46	ZC	501	GDP	C6-N1	-2.46	1.34	1.37
46	XE	501	GDP	C6-N1	-2.46	1.34	1.37
46	VE	501	GDP	C6-N1	-2.46	1.34	1.37
46	WA	501	GDP	C6-N1	-2.46	1.34	1.37
43	1C	2602	ANP	PG-N3B	2.46	1.69	1.63
46	XO	501	GDP	C6-N1	-2.45	1.34	1.37
46	RG	501	GDP	C6-N1	-2.45	1.34	1.37
43	C0	2001	ANP	PG-O1G	2.45	1.50	1.46
46	UC	501	GDP	C6-N1	-2.44	1.34	1.37
46	NO	501	GDP	C6-N1	-2.44	1.34	1.37
46	XG	501	GDP	C6-N1	-2.44	1.34	1.37
43	C0	2001	ANP	PG-N3B	2.44	1.69	1.63
46	QM	501	GDP	C6-N1	-2.44	1.34	1.37
46	VK	501	GDP	C6-N1	-2.44	1.34	1.37
46	XC	501	GDP	C6-N1	-2.44	1.34	1.37
46	YE	501	GDP	C6-N1	-2.43	1.34	1.37
46	YC	501	GDP	C6-N1	-2.43	1.34	1.37
46	RM	501	GDP	C6-N1	-2.43	1.34	1.37
46	OM	501	GDP	C6-N1	-2.43	1.34	1.37
46	QE	501	GDP	C6-N1	-2.43	1.34	1.37
43	1B	2602	ANP	PG-N3B	2.43	1.69	1.63
46	SO	502	GDP	C6-N1	-2.42	1.34	1.37
46	UK	501	GDP	C6-N1	-2.42	1.34	1.37
46	PE	501	GDP	C6-N1	-2.42	1.34	1.37
43	C3	2001	ANP	PG-O1G	2.42	1.50	1.46
42	1C	2601	ADP	C6-C5	2.41	1.52	1.43
46	OE	501	GDP	C6-N1	-2.40	1.34	1.37
46	TE	501	GDP	C6-N1	-2.40	1.34	1.37
46	OO	501	GDP	C6-N1	-2.40	1.34	1.37
43	C2	2001	ANP	PG-O1G	2.40	1.50	1.46
46	NE	501	GDP	C6-N1	-2.40	1.34	1.37
46	RO	501	GDP	C6-N1	-2.39	1.34	1.37
46	NC	501	GDP	C6-N1	-2.38	1.34	1.37
46	VI	501	GDP	C6-N1	-2.38	1.34	1.37
46	NM	501	GDP	C6-N1	-2.38	1.34	1.37
46	WE	501	GDP	C6-N1	-2.37	1.34	1.37
43	1B	2602	ANP	PG-O1G	2.37	1.49	1.46
46	NI	501	GDP	C6-N1	-2.36	1.34	1.37
43	C1	2001	ANP	PB-O1B	2.36	1.49	1.46
43	1D	2602	ANP	PG-N3B	2.35	1.69	1.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
46	PI	502	GDP	C6-N1	-2.35	1.34	1.37
43	1D	2602	ANP	PG-O1G	2.35	1.49	1.46
43	1A	2602	ANP	PG-O1G	2.34	1.49	1.46
46	XK	501	GDP	C6-N1	-2.34	1.34	1.37
43	1C	2602	ANP	PB-O1B	2.33	1.49	1.46
43	1A	2602	ANP	PG-N3B	2.33	1.69	1.63
43	C2	2001	ANP	PG-N3B	2.32	1.69	1.63
43	1A	2602	ANP	PB-O1B	2.30	1.49	1.46
43	1D	2602	ANP	PB-O3A	-2.29	1.56	1.59
43	1D	2602	ANP	PB-O1B	2.25	1.49	1.46
43	C0	2001	ANP	PB-O1B	2.24	1.49	1.46
43	C2	2001	ANP	PB-O1B	2.24	1.49	1.46
43	C2	2001	ANP	PB-O3A	-2.23	1.56	1.59
43	C3	2001	ANP	PB-O1B	2.23	1.49	1.46
44	YB	501	GTP	C2-N3	2.22	1.38	1.33
44	SJ	501	GTP	C2-N3	2.22	1.38	1.33
44	QD	501	GTP	C2-N3	2.21	1.38	1.33
44	RF	501	GTP	C2-N3	2.21	1.38	1.33
44	NB	501	GTP	C2-N3	2.20	1.38	1.33
44	UB	501	GTP	C2-N3	2.20	1.38	1.33
44	PP	501	GTP	C2-N3	2.20	1.38	1.33
44	NN	501	GTP	C2-N3	2.20	1.38	1.33
44	SP	501	GTP	C2-N3	2.20	1.38	1.33
44	OH	501	GTP	C2-N3	2.19	1.38	1.33
44	ND	501	GTP	C2-N3	2.19	1.38	1.33
44	TL	501	GTP	C2-N3	2.19	1.38	1.33
44	UF	501	GTP	C2-N3	2.19	1.38	1.33
44	XB	501	GTP	C2-N3	2.19	1.38	1.33
44	ZB	501	GTP	C2-N3	2.19	1.38	1.33
44	UH	501	GTP	C2-N3	2.19	1.38	1.33
44	QN	501	GTP	C2-N3	2.18	1.38	1.33
44	NL	501	GTP	C2-N3	2.18	1.38	1.33
44	OL	501	GTP	C2-N3	2.18	1.38	1.33
44	YF	501	GTP	C2-N3	2.18	1.38	1.33
44	SB	501	GTP	C2-N3	2.18	1.38	1.33
44	WB	501	GTP	C2-N3	2.18	1.38	1.33
44	RL	501	GTP	C2-N3	2.18	1.38	1.33
44	QL	501	GTP	C2-N3	2.17	1.38	1.33
44	YN	501	GTP	C2-N3	2.17	1.38	1.33
44	WH	501	GTP	C2-N3	2.17	1.38	1.33
44	WN	501	GTP	C2-N3	2.17	1.38	1.33
44	XN	501	GTP	C2-N3	2.17	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
44	WJ	501	GTP	C2-N3	2.17	1.38	1.33
44	TN	501	GTP	C2-N3	2.17	1.38	1.33
44	PJ	501	GTP	C2-N3	2.17	1.38	1.33
44	SN	501	GTP	C2-N3	2.17	1.38	1.33
44	TB	501	GTP	C2-N3	2.17	1.38	1.33
44	SF	501	GTP	C2-N3	2.17	1.38	1.33
44	TF	501	GTP	C2-N3	2.16	1.38	1.33
44	QJ	501	GTP	C2-N3	2.16	1.38	1.33
44	YD	501	GTP	C2-N3	2.16	1.38	1.33
44	NH	501	GTP	C2-N3	2.16	1.38	1.33
44	SH	501	GTP	C2-N3	2.16	1.38	1.33
44	TJ	501	GTP	C2-N3	2.16	1.38	1.33
43	1C	2602	ANP	PB-O3A	-2.16	1.56	1.59
44	UP	501	GTP	C2-N3	2.16	1.38	1.33
44	OP	501	GTP	C2-N3	2.16	1.38	1.33
44	WL	501	GTP	C2-N3	2.15	1.38	1.33
44	UJ	501	GTP	C2-N3	2.15	1.38	1.33
44	XD	501	GTP	C2-N3	2.15	1.38	1.33
44	UD	501	GTP	C2-N3	2.15	1.38	1.33
44	NF	501	GTP	C2-N3	2.15	1.38	1.33
44	PD	501	GTP	C2-N3	2.15	1.38	1.33
44	UN	501	GTP	C2-N3	2.15	1.38	1.33
44	ON	501	GTP	C2-N3	2.15	1.38	1.33
44	TD	501	GTP	C2-N3	2.14	1.38	1.33
44	SL	501	GTP	C2-N3	2.14	1.38	1.33
44	QH	501	GTP	C2-N3	2.14	1.38	1.33
44	ZJ	501	GTP	C2-N3	2.14	1.38	1.33
44	OD	501	GTP	C2-N3	2.14	1.38	1.33
44	QP	501	GTP	C2-N3	2.14	1.38	1.33
44	PN	501	GTP	C2-N3	2.14	1.38	1.33
44	VD	501	GTP	C2-N3	2.14	1.38	1.33
44	YP	501	GTP	C2-N3	2.14	1.38	1.33
44	RH	501	GTP	C2-N3	2.13	1.38	1.33
44	XF	501	GTP	C2-N3	2.13	1.38	1.33
44	VF	501	GTP	C2-N3	2.13	1.38	1.33
44	XH	501	GTP	C2-N3	2.13	1.38	1.33
44	WD	501	GTP	C2-N3	2.13	1.38	1.33
44	VJ	501	GTP	C2-N3	2.13	1.38	1.33
44	PH	501	GTP	C2-N3	2.13	1.38	1.33
44	VL	501	GTP	C2-N3	2.13	1.38	1.33
44	XL	501	GTP	C2-N3	2.13	1.38	1.33
44	YJ	501	GTP	C2-N3	2.13	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
44	PF	501	GTP	C2-N3	2.12	1.38	1.33
44	SD	501	GTP	C2-N3	2.12	1.38	1.33
44	OJ	501	GTP	C2-N3	2.12	1.38	1.33
44	RD	501	GTP	C2-N3	2.12	1.38	1.33
44	VH	501	GTP	C2-N3	2.12	1.38	1.33
44	QF	501	GTP	C2-N3	2.12	1.38	1.33
44	PL	501	GTP	C2-N3	2.12	1.38	1.33
44	VB	501	GTP	C2-N3	2.11	1.38	1.33
44	YH	501	GTP	C2-N3	2.11	1.38	1.33
44	ZP	501	GTP	C2-N3	2.11	1.38	1.33
43	1B	2602	ANP	PB-O1B	2.11	1.49	1.46
44	TP	501	GTP	C2-N3	2.11	1.38	1.33
44	ZN	501	GTP	C2-N3	2.11	1.38	1.33
44	RN	501	GTP	C2-N3	2.11	1.38	1.33
44	ZF	501	GTP	C2-N3	2.11	1.38	1.33
44	RP	501	GTP	C2-N3	2.10	1.38	1.33
44	OF	501	GTP	C2-N3	2.10	1.38	1.33
44	UL	501	GTP	C2-N3	2.10	1.38	1.33
44	WF	501	GTP	C2-N3	2.10	1.38	1.33
44	ZL	501	GTP	C2-N3	2.09	1.38	1.33
44	XJ	501	GTP	C2-N3	2.09	1.38	1.33
44	TH	501	GTP	C2-N3	2.09	1.38	1.33
44	VN	501	GTP	C2-N3	2.08	1.38	1.33
43	1C	2602	ANP	PG-O1G	2.07	1.49	1.46
44	ZD	501	GTP	C2-N3	2.07	1.38	1.33
44	NJ	501	GTP	C2-N3	2.06	1.38	1.33
44	ZH	501	GTP	C2-N3	2.05	1.38	1.33
44	RJ	501	GTP	C2-N3	2.04	1.38	1.33
44	VP	501	GTP	C2-N3	2.02	1.38	1.33
43	C3	2001	ANP	PB-O3A	-2.02	1.56	1.59

All (1115) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
42	1B	2601	ADP	C4-C5-N7	-7.36	101.73	109.40
42	1A	2601	ADP	C4-C5-N7	-6.96	102.15	109.40
42	1D	2601	ADP	C4-C5-N7	-6.95	102.15	109.40
42	1C	2601	ADP	C4-C5-N7	-6.93	102.18	109.40
42	1B	2601	ADP	C5-C6-N6	5.61	128.87	120.35
42	1D	2601	ADP	C5-C6-N6	5.32	128.43	120.35
42	1A	2601	ADP	C5-C6-N6	4.56	127.28	120.35
44	ND	501	GTP	PA-O3A-PB	-4.53	117.27	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
44	XB	501	GTP	PA-O3A-PB	-4.48	117.47	132.83
46	TK	501	GDP	PA-O3A-PB	-4.47	117.48	132.83
44	NF	501	GTP	PA-O3A-PB	-4.47	117.49	132.83
44	ZF	501	GTP	PA-O3A-PB	-4.45	117.55	132.83
44	YN	501	GTP	PA-O3A-PB	-4.44	117.58	132.83
42	1B	2601	ADP	N3-C2-N1	-4.43	121.76	128.68
44	VF	501	GTP	PA-O3A-PB	-4.40	117.71	132.83
44	YF	501	GTP	PA-O3A-PB	-4.40	117.73	132.83
44	ZJ	501	GTP	PB-O3B-PG	-4.39	117.78	132.83
42	1C	2601	ADP	C5-C6-N6	4.38	127.01	120.35
44	TL	501	GTP	PA-O3A-PB	-4.38	117.81	132.83
43	C1	2001	ANP	PB-O3A-PA	-4.36	117.25	132.62
44	OJ	501	GTP	PB-O3B-PG	-4.36	117.87	132.83
44	SJ	501	GTP	PA-O3A-PB	-4.35	117.88	132.83
44	UB	501	GTP	PA-O3A-PB	-4.35	117.91	132.83
44	UF	501	GTP	PA-O3A-PB	-4.34	117.93	132.83
46	YI	501	GDP	PA-O3A-PB	-4.34	117.94	132.83
44	TD	501	GTP	PA-O3A-PB	-4.32	118.00	132.83
44	QL	501	GTP	PB-O3B-PG	-4.32	118.00	132.83
44	OJ	501	GTP	PA-O3A-PB	-4.31	118.02	132.83
44	SN	501	GTP	PA-O3A-PB	-4.31	118.03	132.83
44	ZP	501	GTP	PA-O3A-PB	-4.30	118.05	132.83
44	NB	501	GTP	PB-O3B-PG	-4.30	118.06	132.83
44	OD	501	GTP	PA-O3A-PB	-4.30	118.06	132.83
46	RE	501	GDP	PA-O3A-PB	-4.29	118.12	132.83
44	VN	501	GTP	PA-O3A-PB	-4.28	118.13	132.83
44	QH	501	GTP	PA-O3A-PB	-4.27	118.17	132.83
44	NF	501	GTP	PB-O3B-PG	-4.27	118.18	132.83
44	NL	501	GTP	PB-O3B-PG	-4.26	118.20	132.83
44	TN	501	GTP	PA-O3A-PB	-4.26	118.22	132.83
46	UE	501	GDP	PA-O3A-PB	-4.25	118.23	132.83
44	PN	501	GTP	PA-O3A-PB	-4.25	118.23	132.83
44	YB	501	GTP	PA-O3A-PB	-4.25	118.25	132.83
46	WE	501	GDP	PA-O3A-PB	-4.25	118.25	132.83
44	PD	501	GTP	PA-O3A-PB	-4.24	118.29	132.83
44	TB	501	GTP	PA-O3A-PB	-4.23	118.31	132.83
44	QJ	501	GTP	PB-O3B-PG	-4.23	118.32	132.83
44	QD	501	GTP	PB-O3B-PG	-4.22	118.33	132.83
44	UL	501	GTP	PA-O3A-PB	-4.22	118.34	132.83
44	ZL	501	GTP	PA-O3A-PB	-4.22	118.35	132.83
44	ZB	501	GTP	PA-O3A-PB	-4.21	118.37	132.83
44	UJ	501	GTP	PA-O3A-PB	-4.21	118.38	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
44	YP	501	GTP	PB-O3B-PG	-4.21	118.38	132.83
44	SF	501	GTP	PB-O3B-PG	-4.20	118.40	132.83
44	OD	501	GTP	PB-O3B-PG	-4.20	118.42	132.83
42	1A	2601	ADP	N3-C2-N1	-4.20	122.12	128.68
44	TJ	501	GTP	PB-O3B-PG	-4.19	118.43	132.83
44	PN	501	GTP	PB-O3B-PG	-4.19	118.44	132.83
44	WF	501	GTP	PA-O3A-PB	-4.19	118.45	132.83
42	1C	2601	ADP	N3-C2-N1	-4.19	122.13	128.68
44	ON	501	GTP	PB-O3B-PG	-4.19	118.46	132.83
44	ZD	501	GTP	PA-O3A-PB	-4.19	118.46	132.83
42	1D	2601	ADP	N3-C2-N1	-4.18	122.15	128.68
44	OF	501	GTP	PA-O3A-PB	-4.18	118.50	132.83
44	PP	501	GTP	PA-O3A-PB	-4.16	118.53	132.83
44	TF	501	GTP	PA-O3A-PB	-4.16	118.54	132.83
44	TL	501	GTP	PB-O3B-PG	-4.16	118.54	132.83
44	QJ	501	GTP	PA-O3A-PB	-4.16	118.55	132.83
44	SD	501	GTP	PA-O3A-PB	-4.15	118.58	132.83
44	ZH	501	GTP	PB-O3B-PG	-4.15	118.58	132.83
44	SL	501	GTP	PA-O3A-PB	-4.15	118.58	132.83
44	NJ	501	GTP	PA-O3A-PB	-4.15	118.59	132.83
44	XL	501	GTP	PB-O3B-PG	-4.14	118.62	132.83
46	RM	501	GDP	PA-O3A-PB	-4.13	118.64	132.83
44	YD	501	GTP	PA-O3A-PB	-4.13	118.64	132.83
44	PD	501	GTP	PB-O3B-PG	-4.13	118.66	132.83
44	VB	501	GTP	PA-O3A-PB	-4.13	118.67	132.83
44	PH	501	GTP	PB-O3B-PG	-4.13	118.67	132.83
44	VD	501	GTP	PB-O3B-PG	-4.11	118.71	132.83
44	VF	501	GTP	PB-O3B-PG	-4.11	118.71	132.83
44	PL	501	GTP	PA-O3A-PB	-4.11	118.73	132.83
46	RO	501	GDP	PA-O3A-PB	-4.11	118.74	132.83
44	NN	501	GTP	PA-O3A-PB	-4.09	118.79	132.83
44	RL	501	GTP	PB-O3B-PG	-4.09	118.79	132.83
44	QF	501	GTP	PB-O3B-PG	-4.09	118.80	132.83
44	RJ	501	GTP	PB-O3B-PG	-4.07	118.85	132.83
46	OI	501	GDP	PA-O3A-PB	-4.06	118.88	132.83
44	XJ	501	GTP	PB-O3B-PG	-4.06	118.90	132.83
44	ZJ	501	GTP	PA-O3A-PB	-4.06	118.90	132.83
44	UD	501	GTP	PB-O3B-PG	-4.05	118.92	132.83
44	RD	501	GTP	PA-O3A-PB	-4.05	118.94	132.83
46	YG	501	GDP	PA-O3A-PB	-4.05	118.94	132.83
44	QN	501	GTP	PB-O3B-PG	-4.04	118.97	132.83
44	XN	501	GTP	PA-O3A-PB	-4.03	118.98	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
44	VB	501	GTP	PB-O3B-PG	-4.03	118.99	132.83
44	SH	501	GTP	PA-O3A-PB	-4.03	118.99	132.83
44	SF	501	GTP	PA-O3A-PB	-4.03	119.00	132.83
44	SB	501	GTP	PA-O3A-PB	-4.03	119.00	132.83
46	RC	501	GDP	PA-O3A-PB	-4.02	119.03	132.83
44	UB	501	GTP	PB-O3B-PG	-4.02	119.03	132.83
44	OL	501	GTP	PA-O3A-PB	-4.02	119.04	132.83
46	SI	501	GDP	PA-O3A-PB	-4.02	119.04	132.83
44	TF	501	GTP	PB-O3B-PG	-4.01	119.06	132.83
46	WA	501	GDP	PA-O3A-PB	-4.01	119.07	132.83
44	XJ	501	GTP	PA-O3A-PB	-4.00	119.09	132.83
44	RJ	501	GTP	PA-O3A-PB	-4.00	119.11	132.83
44	NL	501	GTP	PA-O3A-PB	-4.00	119.12	132.83
46	YK	501	GDP	PA-O3A-PB	-3.99	119.12	132.83
44	TH	501	GTP	PB-O3B-PG	-3.99	119.15	132.83
44	ND	501	GTP	PB-O3B-PG	-3.98	119.18	132.83
44	WN	501	GTP	PB-O3B-PG	-3.97	119.20	132.83
46	RG	501	GDP	PA-O3A-PB	-3.97	119.22	132.83
44	OH	501	GTP	PB-O3B-PG	-3.96	119.22	132.83
44	PP	501	GTP	PB-O3B-PG	-3.96	119.22	132.83
44	PL	501	GTP	PB-O3B-PG	-3.96	119.22	132.83
44	YH	501	GTP	PB-O3B-PG	-3.96	119.24	132.83
46	VI	501	GDP	PA-O3A-PB	-3.96	119.24	132.83
44	UL	501	GTP	PB-O3B-PG	-3.96	119.25	132.83
44	QL	501	GTP	PA-O3A-PB	-3.96	119.25	132.83
44	VP	501	GTP	PB-O3B-PG	-3.95	119.26	132.83
44	WN	501	GTP	PA-O3A-PB	-3.95	119.26	132.83
44	TN	501	GTP	PB-O3B-PG	-3.95	119.26	132.83
46	PM	501	GDP	PA-O3A-PB	-3.94	119.29	132.83
46	OO	501	GDP	PA-O3A-PB	-3.94	119.30	132.83
44	SL	501	GTP	PB-O3B-PG	-3.94	119.30	132.83
46	OE	501	GDP	PA-O3A-PB	-3.94	119.31	132.83
46	SG	502	GDP	PA-O3A-PB	-3.93	119.33	132.83
46	TC	501	GDP	PA-O3A-PB	-3.93	119.33	132.83
46	SO	502	GDP	PA-O3A-PB	-3.93	119.35	132.83
44	NN	501	GTP	PB-O3B-PG	-3.93	119.36	132.83
44	RN	501	GTP	PB-O3B-PG	-3.93	119.36	132.83
44	NB	501	GTP	PA-O3A-PB	-3.92	119.36	132.83
46	YC	501	GDP	PA-O3A-PB	-3.92	119.37	132.83
46	WO	501	GDP	PA-O3A-PB	-3.92	119.37	132.83
44	SB	501	GTP	PB-O3B-PG	-3.92	119.38	132.83
44	OH	501	GTP	PA-O3A-PB	-3.92	119.39	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
46	YM	501	GDP	PA-O3A-PB	-3.92	119.39	132.83
44	VH	501	GTP	PB-O3B-PG	-3.91	119.39	132.83
46	PE	501	GDP	PA-O3A-PB	-3.91	119.39	132.83
46	ZE	501	GDP	PA-O3A-PB	-3.91	119.41	132.83
44	VJ	501	GTP	PA-O3A-PB	-3.91	119.42	132.83
44	UP	501	GTP	PB-O3B-PG	-3.91	119.42	132.83
44	UH	501	GTP	PB-O3B-PG	-3.91	119.42	132.83
46	ZG	501	GDP	PA-O3A-PB	-3.90	119.43	132.83
44	UN	501	GTP	PB-O3B-PG	-3.90	119.44	132.83
44	PF	501	GTP	PB-O3B-PG	-3.90	119.44	132.83
44	QP	501	GTP	PB-O3B-PG	-3.89	119.47	132.83
44	RD	501	GTP	PB-O3B-PG	-3.89	119.48	132.83
44	SN	501	GTP	PB-O3B-PG	-3.89	119.48	132.83
44	WH	501	GTP	PB-O3B-PG	-3.88	119.52	132.83
44	WJ	501	GTP	PB-O3B-PG	-3.87	119.53	132.83
44	NH	501	GTP	PA-O3A-PB	-3.87	119.55	132.83
44	PF	501	GTP	PA-O3A-PB	-3.87	119.56	132.83
44	WF	501	GTP	PB-O3B-PG	-3.86	119.60	132.83
44	WD	501	GTP	PA-O3A-PB	-3.85	119.62	132.83
46	YE	501	GDP	PA-O3A-PB	-3.84	119.64	132.83
44	ZN	501	GTP	PB-O3B-PG	-3.84	119.65	132.83
46	YO	501	GDP	PA-O3A-PB	-3.84	119.66	132.83
46	NK	501	GDP	PA-O3A-PB	-3.84	119.66	132.83
44	UF	501	GTP	PB-O3B-PG	-3.84	119.67	132.83
44	QF	501	GTP	PA-O3A-PB	-3.83	119.67	132.83
44	UP	501	GTP	PA-O3A-PB	-3.83	119.69	132.83
44	WB	501	GTP	PA-O3A-PB	-3.83	119.69	132.83
44	TB	501	GTP	PB-O3B-PG	-3.82	119.71	132.83
46	OM	501	GDP	PA-O3A-PB	-3.81	119.75	132.83
46	WM	501	GDP	PA-O3A-PB	-3.81	119.77	132.83
46	XG	501	GDP	PA-O3A-PB	-3.81	119.77	132.83
44	ZN	501	GTP	PA-O3A-PB	-3.80	119.79	132.83
46	VO	501	GDP	PA-O3A-PB	-3.79	119.81	132.83
46	QI	501	GDP	PA-O3A-PB	-3.79	119.82	132.83
44	XN	501	GTP	PB-O3B-PG	-3.79	119.83	132.83
46	TI	501	GDP	PA-O3A-PB	-3.78	119.87	132.83
44	XH	501	GTP	PB-O3B-PG	-3.77	119.88	132.83
44	TP	501	GTP	PB-O3B-PG	-3.76	119.92	132.83
44	TD	501	GTP	PB-O3B-PG	-3.75	119.95	132.83
44	RP	501	GTP	PB-O3B-PG	-3.75	119.95	132.83
46	PK	501	GDP	PA-O3A-PB	-3.73	120.02	132.83
46	TG	502	GDP	PA-O3A-PB	-3.73	120.03	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
46	VC	501	GDP	PA-O3A-PB	-3.73	120.04	132.83
44	ZB	501	GTP	PB-O3B-PG	-3.73	120.04	132.83
44	ZD	501	GTP	PB-O3B-PG	-3.72	120.05	132.83
44	PH	501	GTP	PA-O3A-PB	-3.72	120.05	132.83
46	QQ	501	GDP	PA-O3A-PB	-3.72	120.06	132.83
46	ZK	501	GDP	PA-O3A-PB	-3.72	120.06	132.83
44	ZP	501	GTP	PB-O3B-PG	-3.72	120.08	132.83
44	OP	501	GTP	PB-O3B-PG	-3.71	120.10	132.83
44	XD	501	GTP	PB-O3B-PG	-3.70	120.12	132.83
46	SM	501	GDP	PA-O3A-PB	-3.70	120.12	132.83
44	YB	501	GTP	PB-O3B-PG	-3.70	120.14	132.83
46	PG	501	GDP	PA-O3A-PB	-3.70	120.14	132.83
46	PO	501	GDP	PA-O3A-PB	-3.70	120.14	132.83
46	PQ	501	GDP	PA-O3A-PB	-3.69	120.16	132.83
46	SC	502	GDP	PA-O3A-PB	-3.69	120.17	132.83
46	OK	501	GDP	PA-O3A-PB	-3.69	120.18	132.83
46	NC	501	GDP	PA-O3A-PB	-3.68	120.18	132.83
46	WG	502	GDP	PA-O3A-PB	-3.68	120.19	132.83
44	ZL	501	GTP	PB-O3B-PG	-3.68	120.20	132.83
46	ZC	501	GDP	PA-O3A-PB	-3.68	120.20	132.83
46	NI	501	GDP	PA-O3A-PB	-3.68	120.21	132.83
44	OP	501	GTP	PA-O3A-PB	-3.68	120.21	132.83
43	C0	2001	ANP	PB-O3A-PA	-3.68	119.67	132.62
44	WL	501	GTP	PB-O3B-PG	-3.68	120.21	132.83
46	QO	501	GDP	PA-O3A-PB	-3.67	120.23	132.83
46	UO	501	GDP	PA-O3A-PB	-3.67	120.23	132.83
46	XO	501	GDP	PA-O3A-PB	-3.66	120.25	132.83
46	PC	501	GDP	PA-O3A-PB	-3.66	120.26	132.83
46	NG	502	GDP	PA-O3A-PB	-3.66	120.26	132.83
44	QP	501	GTP	PA-O3A-PB	-3.66	120.28	132.83
44	QH	501	GTP	PB-O3B-PG	-3.65	120.31	132.83
43	C3	2001	ANP	C4-C5-N7	3.64	113.19	109.40
46	RI	502	GDP	PA-O3A-PB	-3.63	120.37	132.83
46	XC	501	GDP	PA-O3A-PB	-3.63	120.37	132.83
44	XB	501	GTP	PB-O3B-PG	-3.63	120.37	132.83
44	VP	501	GTP	PA-O3A-PB	-3.62	120.40	132.83
44	SP	501	GTP	PA-O3A-PB	-3.62	120.42	132.83
44	RH	501	GTP	PB-O3B-PG	-3.60	120.46	132.83
43	1D	2602	ANP	PB-O3A-PA	-3.60	119.94	132.62
46	OC	501	GDP	PA-O3A-PB	-3.59	120.49	132.83
46	VE	501	GDP	PA-O3A-PB	-3.59	120.50	132.83
44	UN	501	GTP	PA-O3A-PB	-3.58	120.56	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
46	XA	501	GDP	PA-O3A-PB	-3.57	120.56	132.83
44	XF	501	GTP	PA-O3A-PB	-3.57	120.56	132.83
46	RK	501	GDP	PA-O3A-PB	-3.57	120.57	132.83
46	UG	501	GDP	PA-O3A-PB	-3.57	120.58	132.83
46	PI	502	GDP	PA-O3A-PB	-3.56	120.60	132.83
46	NM	501	GDP	PA-O3A-PB	-3.54	120.67	132.83
44	YJ	501	GTP	PB-O3B-PG	-3.53	120.70	132.83
46	UI	501	GDP	PA-O3A-PB	-3.52	120.75	132.83
46	ZI	501	GDP	PA-O3A-PB	-3.52	120.75	132.83
44	RN	501	GTP	PA-O3A-PB	-3.51	120.77	132.83
44	YF	501	GTP	PB-O3B-PG	-3.51	120.77	132.83
44	PJ	501	GTP	PA-O3A-PB	-3.51	120.78	132.83
46	ZM	501	GDP	PA-O3A-PB	-3.51	120.79	132.83
46	VK	501	GDP	PA-O3A-PB	-3.50	120.82	132.83
46	WI	501	GDP	PA-O3A-PB	-3.50	120.82	132.83
46	WK	501	GDP	PA-O3A-PB	-3.49	120.85	132.83
44	WD	501	GTP	PB-O3B-PG	-3.48	120.87	132.83
46	ZO	501	GDP	PA-O3A-PB	-3.48	120.87	132.83
46	SK	501	GDP	PA-O3A-PB	-3.48	120.89	132.83
46	XM	502	GDP	PA-O3A-PB	-3.48	120.89	132.83
46	WC	501	GDP	PA-O3A-PB	-3.47	120.92	132.83
46	QE	501	GDP	PA-O3A-PB	-3.46	120.94	132.83
44	RL	501	GTP	PA-O3A-PB	-3.46	120.94	132.83
46	OG	501	GDP	PA-O3A-PB	-3.46	120.97	132.83
46	UK	501	GDP	PA-O3A-PB	-3.45	120.97	132.83
44	UH	501	GTP	PA-O3A-PB	-3.45	120.98	132.83
46	TM	502	GDP	PA-O3A-PB	-3.45	120.98	132.83
44	SJ	501	GTP	PB-O3B-PG	-3.43	121.05	132.83
42	1D	2601	ADP	PA-O3A-PB	-3.43	121.06	132.83
46	NO	501	GDP	PA-O3A-PB	-3.43	121.06	132.83
42	1B	2601	ADP	PA-O3A-PB	-3.42	121.08	132.83
46	OQ	501	GDP	PA-O3A-PB	-3.42	121.08	132.83
44	XH	501	GTP	PA-O3A-PB	-3.41	121.12	132.83
46	QM	501	GDP	PA-O3A-PB	-3.41	121.13	132.83
46	SE	501	GDP	PA-O3A-PB	-3.41	121.13	132.83
44	VL	501	GTP	PA-O3A-PB	-3.41	121.14	132.83
46	QG	501	GDP	PA-O3A-PB	-3.40	121.16	132.83
42	1C	2601	ADP	PA-O3A-PB	-3.39	121.20	132.83
46	VG	501	GDP	PA-O3A-PB	-3.39	121.21	132.83
46	TE	501	GDP	PA-O3A-PB	-3.38	121.23	132.83
44	VH	501	GTP	PA-O3A-PB	-3.38	121.24	132.83
44	SJ	501	GTP	C5-C6-N1	3.37	119.91	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
44	PJ	501	GTP	C5-C6-N1	3.37	119.90	113.95
44	UD	501	GTP	C5-C6-N1	3.37	119.89	113.95
46	PQ	501	GDP	C3'-C2'-C1'	3.36	106.04	100.98
44	WB	501	GTP	PB-O3B-PG	-3.36	121.29	132.83
44	NN	501	GTP	C5-C6-N1	3.36	119.89	113.95
44	UF	501	GTP	C5-C6-N1	3.36	119.88	113.95
44	RL	501	GTP	C5-C6-N1	3.36	119.88	113.95
44	VL	501	GTP	PB-O3B-PG	-3.35	121.32	132.83
42	1A	2601	ADP	PA-O3A-PB	-3.35	121.33	132.83
46	XE	501	GDP	PA-O3A-PB	-3.35	121.33	132.83
46	QE	501	GDP	C3'-C2'-C1'	3.35	106.02	100.98
44	YJ	501	GTP	PA-O3A-PB	-3.35	121.34	132.83
46	XI	501	GDP	PA-O3A-PB	-3.34	121.36	132.83
46	NE	501	GDP	PA-O3A-PB	-3.34	121.37	132.83
46	QC	501	GDP	PA-O3A-PB	-3.34	121.37	132.83
44	UH	501	GTP	C5-C6-N1	3.33	119.83	113.95
44	NB	501	GTP	C5-C6-N1	3.33	119.83	113.95
46	QG	501	GDP	C3'-C2'-C1'	3.33	105.99	100.98
44	WH	501	GTP	PA-O3A-PB	-3.33	121.42	132.83
44	TH	501	GTP	C5-C6-N1	3.32	119.81	113.95
44	NH	501	GTP	PB-O3B-PG	-3.32	121.44	132.83
44	RF	501	GTP	C5-C6-N1	3.31	119.80	113.95
44	XL	501	GTP	PA-O3A-PB	-3.31	121.46	132.83
44	NH	501	GTP	C5-C6-N1	3.31	119.79	113.95
44	UJ	501	GTP	C5-C6-N1	3.31	119.79	113.95
44	VN	501	GTP	PB-O3B-PG	-3.31	121.47	132.83
44	QN	501	GTP	C5-C6-N1	3.30	119.79	113.95
44	WL	501	GTP	C5-C6-N1	3.30	119.78	113.95
44	WH	501	GTP	C5-C6-N1	3.30	119.78	113.95
44	YN	501	GTP	PB-O3B-PG	-3.30	121.50	132.83
46	TO	501	GDP	PA-O3A-PB	-3.30	121.52	132.83
44	WF	501	GTP	C5-C6-N1	3.29	119.77	113.95
44	OP	501	GTP	C5-C6-N1	3.29	119.76	113.95
44	YP	501	GTP	C5-C6-N1	3.29	119.76	113.95
44	QL	501	GTP	C5-C6-N1	3.29	119.75	113.95
44	TJ	501	GTP	C5-C6-N1	3.29	119.75	113.95
46	NO	501	GDP	C3'-C2'-C1'	3.29	105.92	100.98
44	NB	501	GTP	C3'-C2'-C1'	3.28	105.92	100.98
44	WJ	501	GTP	PA-O3A-PB	-3.28	121.56	132.83
44	SP	501	GTP	C5-C6-N1	3.28	119.74	113.95
44	VJ	501	GTP	C5-C6-N1	3.28	119.74	113.95
44	QH	501	GTP	C5-C6-N1	3.28	119.74	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
44	PN	501	GTP	C5-C6-N1	3.27	119.73	113.95
44	PP	501	GTP	C5-C6-N1	3.27	119.73	113.95
44	RD	501	GTP	C5-C6-N1	3.27	119.73	113.95
44	ZJ	501	GTP	C5-C6-N1	3.27	119.73	113.95
44	VH	501	GTP	C5-C6-N1	3.27	119.72	113.95
44	SP	501	GTP	PB-O3B-PG	-3.27	121.61	132.83
44	TL	501	GTP	C5-C6-N1	3.27	119.72	113.95
44	QF	501	GTP	C5-C6-N1	3.27	119.72	113.95
44	RH	501	GTP	C5-C6-N1	3.27	119.72	113.95
44	UN	501	GTP	C5-C6-N1	3.27	119.72	113.95
44	XF	501	GTP	C5-C6-N1	3.27	119.72	113.95
44	SH	501	GTP	C5-C6-N1	3.26	119.72	113.95
44	YF	501	GTP	C5-C6-N1	3.26	119.72	113.95
44	TN	501	GTP	C5-C6-N1	3.26	119.71	113.95
44	ON	501	GTP	C5-C6-N1	3.26	119.71	113.95
44	WB	501	GTP	C5-C6-N1	3.26	119.71	113.95
44	ZH	501	GTP	C5-C6-N1	3.26	119.71	113.95
44	RP	501	GTP	C5-C6-N1	3.26	119.70	113.95
44	SL	501	GTP	C5-C6-N1	3.26	119.70	113.95
44	UB	501	GTP	C5-C6-N1	3.25	119.70	113.95
44	TP	501	GTP	C5-C6-N1	3.25	119.70	113.95
44	OF	501	GTP	C5-C6-N1	3.25	119.69	113.95
46	OQ	501	GDP	C3'-C2'-C1'	3.25	105.87	100.98
44	WJ	501	GTP	C5-C6-N1	3.25	119.69	113.95
44	NF	501	GTP	C5-C6-N1	3.25	119.69	113.95
44	WL	501	GTP	PA-O3A-PB	-3.25	121.68	132.83
44	SF	501	GTP	C5-C6-N1	3.25	119.68	113.95
46	PO	501	GDP	C3'-C2'-C1'	3.25	105.86	100.98
44	QJ	501	GTP	C5-C6-N1	3.25	119.68	113.95
44	VD	501	GTP	C5-C6-N1	3.25	119.68	113.95
44	XL	501	GTP	C5-C6-N1	3.24	119.68	113.95
44	NJ	501	GTP	C5-C6-N1	3.24	119.68	113.95
44	OJ	501	GTP	C5-C6-N1	3.24	119.68	113.95
44	PF	501	GTP	C5-C6-N1	3.24	119.68	113.95
44	QD	501	GTP	C5-C6-N1	3.24	119.68	113.95
46	VC	501	GDP	C3'-C2'-C1'	3.24	105.86	100.98
44	WD	501	GTP	C5-C6-N1	3.24	119.67	113.95
44	PL	501	GTP	C5-C6-N1	3.24	119.67	113.95
46	YC	501	GDP	C3'-C2'-C1'	3.24	105.85	100.98
44	PD	501	GTP	C5-C6-N1	3.23	119.66	113.95
44	VN	501	GTP	C5-C6-N1	3.23	119.66	113.95
44	WN	501	GTP	C5-C6-N1	3.23	119.66	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
46	OC	501	GDP	C3'-C2'-C1'	3.23	105.84	100.98
44	ND	501	GTP	C5-C6-N1	3.23	119.66	113.95
44	XB	501	GTP	C5-C6-N1	3.23	119.65	113.95
44	YN	501	GTP	C5-C6-N1	3.23	119.65	113.95
44	OL	501	GTP	C5-C6-N1	3.23	119.65	113.95
44	TD	501	GTP	C5-C6-N1	3.23	119.65	113.95
44	XH	501	GTP	C5-C6-N1	3.23	119.65	113.95
46	QK	501	GDP	PA-O3A-PB	-3.22	121.76	132.83
44	VL	501	GTP	C5-C6-N1	3.22	119.64	113.95
44	YJ	501	GTP	C5-C6-N1	3.22	119.64	113.95
44	XJ	501	GTP	C5-C6-N1	3.22	119.64	113.95
44	ZL	501	GTP	C5-C6-N1	3.22	119.64	113.95
44	YB	501	GTP	C5-C6-N1	3.22	119.64	113.95
44	NL	501	GTP	C5-C6-N1	3.22	119.63	113.95
44	SD	501	GTP	C5-C6-N1	3.22	119.63	113.95
44	UL	501	GTP	C5-C6-N1	3.21	119.62	113.95
44	YH	501	GTP	C5-C6-N1	3.21	119.62	113.95
44	SB	501	GTP	C5-C6-N1	3.21	119.62	113.95
44	UD	501	GTP	PA-O3A-PB	-3.21	121.81	132.83
44	TB	501	GTP	C5-C6-N1	3.21	119.61	113.95
44	XD	501	GTP	C5-C6-N1	3.21	119.61	113.95
44	RN	501	GTP	C5-C6-N1	3.20	119.61	113.95
44	RJ	501	GTP	C5-C6-N1	3.20	119.61	113.95
44	TF	501	GTP	C5-C6-N1	3.20	119.60	113.95
44	ZN	501	GTP	C5-C6-N1	3.19	119.59	113.95
46	SM	501	GDP	C3'-C2'-C1'	3.19	105.78	100.98
44	ZF	501	GTP	PB-O3B-PG	-3.19	121.88	132.83
44	XN	501	GTP	C5-C6-N1	3.19	119.58	113.95
44	QP	501	GTP	C5-C6-N1	3.19	119.58	113.95
44	YL	501	GTP	C5-C6-N1	3.19	119.58	113.95
46	PG	501	GDP	C3'-C2'-C1'	3.19	105.77	100.98
44	YD	501	GTP	C5-C6-N1	3.18	119.56	113.95
44	UP	501	GTP	C5-C6-N1	3.18	119.56	113.95
44	SN	501	GTP	C5-C6-N1	3.17	119.56	113.95
44	YD	501	GTP	PB-O3B-PG	-3.17	121.93	132.83
44	VF	501	GTP	C5-C6-N1	3.17	119.56	113.95
44	OJ	501	GTP	C3'-C2'-C1'	3.17	105.75	100.98
44	OD	501	GTP	C5-C6-N1	3.17	119.55	113.95
46	ZM	501	GDP	C3'-C2'-C1'	3.17	105.75	100.98
44	YL	501	GTP	PB-O3B-PG	-3.17	121.96	132.83
44	NH	501	GTP	C8-N7-C5	3.14	108.98	102.99
43	1A	2602	ANP	PB-O3A-PA	-3.14	121.55	132.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
44	RF	501	GTP	PA-O3A-PB	-3.14	122.05	132.83
44	QN	501	GTP	C3'-C2'-C1'	3.14	105.70	100.98
46	XK	501	GDP	PA-O3A-PB	-3.14	122.05	132.83
44	PH	501	GTP	C5-C6-N1	3.14	119.50	113.95
46	TC	501	GDP	C3'-C2'-C1'	3.13	105.69	100.98
44	ON	501	GTP	PA-O3A-PB	-3.13	122.08	132.83
44	VB	501	GTP	C5-C6-N1	3.13	119.47	113.95
44	SP	501	GTP	C3'-C2'-C1'	3.13	105.68	100.98
44	RF	501	GTP	C8-N7-C5	3.12	108.94	102.99
46	UM	501	GDP	PA-O3A-PB	-3.12	122.11	132.83
44	ZF	501	GTP	C5-C6-N1	3.12	119.47	113.95
44	ZD	501	GTP	C5-C6-N1	3.12	119.46	113.95
44	YL	501	GTP	C8-N7-C5	3.12	108.93	102.99
44	ZB	501	GTP	C5-C6-N1	3.12	119.45	113.95
44	OH	501	GTP	C5-C6-N1	3.11	119.45	113.95
44	OF	501	GTP	PB-O3B-PG	-3.11	122.15	132.83
44	SH	501	GTP	PB-O3B-PG	-3.11	122.15	132.83
44	UJ	501	GTP	C8-N7-C5	3.11	108.91	102.99
44	SH	501	GTP	C8-N7-C5	3.11	108.91	102.99
46	SK	501	GDP	C3'-C2'-C1'	3.10	105.65	100.98
44	VP	501	GTP	C5-C6-N1	3.10	119.43	113.95
44	QL	501	GTP	C3'-C2'-C1'	3.10	105.64	100.98
44	PJ	501	GTP	C3'-C2'-C1'	3.10	105.64	100.98
46	NG	502	GDP	C3'-C2'-C1'	3.10	105.64	100.98
44	XD	501	GTP	PA-O3A-PB	-3.09	122.21	132.83
44	QD	501	GTP	C3'-C2'-C1'	3.09	105.62	100.98
44	WF	501	GTP	C8-N7-C5	3.09	108.87	102.99
44	ZP	501	GTP	C5-C6-N1	3.08	119.39	113.95
44	TH	501	GTP	C8-N7-C5	3.08	108.86	102.99
46	UC	501	GDP	PA-O3A-PB	-3.08	122.26	132.83
44	RP	501	GTP	C8-N7-C5	3.07	108.85	102.99
44	RH	501	GTP	C8-N7-C5	3.07	108.84	102.99
44	NN	501	GTP	C8-N7-C5	3.07	108.84	102.99
44	PD	501	GTP	C3'-C2'-C1'	3.07	105.60	100.98
44	QH	501	GTP	C8-N7-C5	3.07	108.84	102.99
44	PL	501	GTP	C8-N7-C5	3.07	108.83	102.99
44	UN	501	GTP	C8-N7-C5	3.06	108.83	102.99
46	PI	502	GDP	C3'-C2'-C1'	3.06	105.59	100.98
46	TM	502	GDP	C3'-C2'-C1'	3.06	105.59	100.98
46	WO	501	GDP	C3'-C2'-C1'	3.06	105.58	100.98
44	YB	501	GTP	C8-N7-C5	3.06	108.82	102.99
46	RC	501	GDP	C3'-C2'-C1'	3.06	105.58	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
44	VH	501	GTP	C8-N7-C5	3.06	108.81	102.99
44	RL	501	GTP	C8-N7-C5	3.05	108.81	102.99
44	TF	501	GTP	C8-N7-C5	3.05	108.80	102.99
44	PF	501	GTP	C3'-C2'-C1'	3.05	105.57	100.98
46	SE	501	GDP	C3'-C2'-C1'	3.05	105.57	100.98
44	PJ	501	GTP	C8-N7-C5	3.05	108.80	102.99
44	RD	501	GTP	C8-N7-C5	3.04	108.79	102.99
44	WD	501	GTP	C8-N7-C5	3.04	108.79	102.99
44	SP	501	GTP	C8-N7-C5	3.04	108.79	102.99
44	TF	501	GTP	C3'-C2'-C1'	3.04	105.56	100.98
44	SD	501	GTP	C8-N7-C5	3.04	108.79	102.99
44	SD	501	GTP	PB-O3B-PG	-3.04	122.39	132.83
44	ZH	501	GTP	C8-N7-C5	3.04	108.78	102.99
44	NF	501	GTP	C8-N7-C5	3.04	108.78	102.99
44	QN	501	GTP	PA-O3A-PB	-3.04	122.40	132.83
44	YP	501	GTP	C3'-C2'-C1'	3.04	105.55	100.98
44	OF	501	GTP	C8-N7-C5	3.04	108.78	102.99
44	OL	501	GTP	C8-N7-C5	3.04	108.78	102.99
44	UB	501	GTP	C8-N7-C5	3.04	108.78	102.99
44	NL	501	GTP	C8-N7-C5	3.04	108.78	102.99
44	YJ	501	GTP	C8-N7-C5	3.04	108.78	102.99
44	QN	501	GTP	C8-N7-C5	3.04	108.78	102.99
44	XF	501	GTP	C8-N7-C5	3.04	108.78	102.99
44	VL	501	GTP	C8-N7-C5	3.04	108.77	102.99
44	TB	501	GTP	C8-N7-C5	3.03	108.77	102.99
44	PD	501	GTP	C8-N7-C5	3.03	108.77	102.99
44	OJ	501	GTP	C8-N7-C5	3.03	108.77	102.99
44	UL	501	GTP	C8-N7-C5	3.03	108.77	102.99
46	OM	501	GDP	C3'-C2'-C1'	3.03	105.54	100.98
44	QJ	501	GTP	C8-N7-C5	3.03	108.76	102.99
44	WH	501	GTP	C8-N7-C5	3.03	108.76	102.99
44	XD	501	GTP	C8-N7-C5	3.03	108.76	102.99
44	QP	501	GTP	C8-N7-C5	3.03	108.76	102.99
44	SJ	501	GTP	C8-N7-C5	3.03	108.76	102.99
44	OD	501	GTP	C8-N7-C5	3.03	108.75	102.99
44	ZN	501	GTP	C8-N7-C5	3.03	108.75	102.99
44	TJ	501	GTP	C8-N7-C5	3.02	108.75	102.99
44	ND	501	GTP	C8-N7-C5	3.02	108.75	102.99
44	SL	501	GTP	C8-N7-C5	3.02	108.75	102.99
44	UH	501	GTP	C8-N7-C5	3.02	108.74	102.99
44	TL	501	GTP	C3'-C2'-C1'	3.02	105.53	100.98
44	YH	501	GTP	C8-N7-C5	3.02	108.74	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
44	TD	501	GTP	C3'-C2'-C1'	3.02	105.52	100.98
44	YN	501	GTP	C8-N7-C5	3.02	108.74	102.99
44	PN	501	GTP	C8-N7-C5	3.02	108.74	102.99
44	WJ	501	GTP	C8-N7-C5	3.02	108.74	102.99
44	YP	501	GTP	C8-N7-C5	3.02	108.74	102.99
44	ZH	501	GTP	C3'-C2'-C1'	3.02	105.52	100.98
44	WF	501	GTP	C2-N1-C6	-3.02	119.55	125.10
44	VL	501	GTP	C3'-C2'-C1'	3.02	105.52	100.98
44	NJ	501	GTP	C8-N7-C5	3.02	108.73	102.99
44	PP	501	GTP	C8-N7-C5	3.02	108.73	102.99
44	RN	501	GTP	C8-N7-C5	3.02	108.73	102.99
44	RJ	501	GTP	C8-N7-C5	3.01	108.73	102.99
44	TN	501	GTP	C8-N7-C5	3.01	108.73	102.99
44	SB	501	GTP	C8-N7-C5	3.01	108.73	102.99
44	TD	501	GTP	C8-N7-C5	3.01	108.72	102.99
44	TP	501	GTP	C8-N7-C5	3.01	108.72	102.99
44	NN	501	GTP	C2-N1-C6	-3.01	119.56	125.10
44	YF	501	GTP	C8-N7-C5	3.01	108.72	102.99
44	ZH	501	GTP	PA-O3A-PB	-3.01	122.51	132.83
44	VN	501	GTP	C8-N7-C5	3.01	108.72	102.99
44	UD	501	GTP	C8-N7-C5	3.00	108.71	102.99
44	SF	501	GTP	C3'-C2'-C1'	3.00	105.50	100.98
44	NH	501	GTP	C2-N1-C6	-3.00	119.57	125.10
44	ON	501	GTP	C8-N7-C5	3.00	108.71	102.99
44	ZJ	501	GTP	C8-N7-C5	3.00	108.71	102.99
44	WL	501	GTP	C3'-C2'-C1'	3.00	105.50	100.98
44	WB	501	GTP	C8-N7-C5	3.00	108.70	102.99
46	PC	501	GDP	C3'-C2'-C1'	3.00	105.49	100.98
44	ZF	501	GTP	C8-N7-C5	3.00	108.70	102.99
44	QD	501	GTP	C8-N7-C5	3.00	108.70	102.99
44	QL	501	GTP	C8-N7-C5	3.00	108.70	102.99
44	QF	501	GTP	C3'-C2'-C1'	2.99	105.49	100.98
44	OP	501	GTP	C8-N7-C5	2.99	108.69	102.99
44	UP	501	GTP	C3'-C2'-C1'	2.99	105.49	100.98
44	ZB	501	GTP	C8-N7-C5	2.99	108.69	102.99
44	XN	501	GTP	C8-N7-C5	2.99	108.69	102.99
44	ZL	501	GTP	C8-N7-C5	2.99	108.69	102.99
44	PH	501	GTP	C8-N7-C5	2.99	108.69	102.99
44	WL	501	GTP	C8-N7-C5	2.99	108.69	102.99
44	XB	501	GTP	C8-N7-C5	2.99	108.68	102.99
44	TJ	501	GTP	PA-O3A-PB	-2.99	122.58	132.83
44	UP	501	GTP	C8-N7-C5	2.99	108.68	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
44	UF	501	GTP	C8-N7-C5	2.98	108.67	102.99
44	ND	501	GTP	C3'-C2'-C1'	2.98	105.47	100.98
44	UN	501	GTP	C3'-C2'-C1'	2.98	105.47	100.98
44	VB	501	GTP	C8-N7-C5	2.98	108.67	102.99
44	VF	501	GTP	C8-N7-C5	2.98	108.67	102.99
44	NB	501	GTP	C8-N7-C5	2.98	108.66	102.99
44	YB	501	GTP	C3'-C2'-C1'	2.98	105.46	100.98
44	SJ	501	GTP	C2-N1-C6	-2.98	119.62	125.10
44	PF	501	GTP	C8-N7-C5	2.98	108.66	102.99
44	XH	501	GTP	C8-N7-C5	2.98	108.66	102.99
44	XJ	501	GTP	C8-N7-C5	2.98	108.66	102.99
44	YD	501	GTP	C8-N7-C5	2.98	108.66	102.99
44	VD	501	GTP	C8-N7-C5	2.98	108.66	102.99
44	XL	501	GTP	C8-N7-C5	2.98	108.66	102.99
44	SF	501	GTP	C8-N7-C5	2.97	108.66	102.99
44	OP	501	GTP	C2-N1-C6	-2.97	119.62	125.10
44	WN	501	GTP	C8-N7-C5	2.97	108.65	102.99
46	VG	501	GDP	C3'-C2'-C1'	2.97	105.45	100.98
44	ZD	501	GTP	C8-N7-C5	2.97	108.65	102.99
44	XH	501	GTP	C3'-C2'-C1'	2.97	105.45	100.98
44	TL	501	GTP	C8-N7-C5	2.97	108.64	102.99
44	ZP	501	GTP	C8-N7-C5	2.97	108.64	102.99
44	UF	501	GTP	C3'-C2'-C1'	2.97	105.44	100.98
44	UH	501	GTP	C3'-C2'-C1'	2.97	105.44	100.98
44	SB	501	GTP	C3'-C2'-C1'	2.97	105.44	100.98
44	YF	501	GTP	C3'-C2'-C1'	2.96	105.44	100.98
44	NB	501	GTP	C2-N1-C6	-2.96	119.64	125.10
46	ZO	501	GDP	C3'-C2'-C1'	2.96	105.44	100.98
44	UH	501	GTP	C2-N1-C6	-2.96	119.64	125.10
44	QN	501	GTP	C2-N1-C6	-2.96	119.65	125.10
44	SN	501	GTP	C8-N7-C5	2.96	108.63	102.99
44	VP	501	GTP	C8-N7-C5	2.96	108.63	102.99
44	TL	501	GTP	C2-N1-C6	-2.96	119.66	125.10
44	NJ	501	GTP	C2-N1-C6	-2.95	119.66	125.10
44	NL	501	GTP	C3'-C2'-C1'	2.95	105.42	100.98
44	QF	501	GTP	C8-N7-C5	2.95	108.61	102.99
44	WN	501	GTP	C3'-C2'-C1'	2.95	105.42	100.98
44	NJ	501	GTP	C3'-C2'-C1'	2.94	105.41	100.98
44	PP	501	GTP	C3'-C2'-C1'	2.94	105.41	100.98
44	UD	501	GTP	C2-N1-C6	-2.94	119.69	125.10
44	VJ	501	GTP	C2-N1-C6	-2.94	119.69	125.10
44	WD	501	GTP	C3'-C2'-C1'	2.94	105.40	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
44	VD	501	GTP	PA-O3A-PB	-2.94	122.75	132.83
44	QJ	501	GTP	C2-N1-C6	-2.94	119.69	125.10
44	SH	501	GTP	C2-N1-C6	-2.93	119.69	125.10
44	SN	501	GTP	C3'-C2'-C1'	2.93	105.39	100.98
44	RF	501	GTP	C2-N1-C6	-2.93	119.70	125.10
44	UN	501	GTP	C2-N1-C6	-2.93	119.70	125.10
44	WL	501	GTP	C2-N1-C6	-2.93	119.70	125.10
46	QM	501	GDP	C3'-C2'-C1'	2.93	105.39	100.98
44	VD	501	GTP	C2-N1-C6	-2.93	119.70	125.10
44	WH	501	GTP	C2-N1-C6	-2.93	119.70	125.10
44	PJ	501	GTP	C2-N1-C6	-2.93	119.70	125.10
44	VJ	501	GTP	PB-O3B-PG	-2.93	122.77	132.83
44	WJ	501	GTP	C3'-C2'-C1'	2.93	105.39	100.98
44	NF	501	GTP	C2-N1-C6	-2.93	119.71	125.10
44	PN	501	GTP	C2-N1-C6	-2.93	119.71	125.10
44	SP	501	GTP	C2-N1-C6	-2.93	119.71	125.10
46	XC	501	GDP	C3'-C2'-C1'	2.93	105.38	100.98
44	VJ	501	GTP	C8-N7-C5	2.92	108.56	102.99
44	QL	501	GTP	C2-N1-C6	-2.92	119.71	125.10
44	PH	501	GTP	C3'-C2'-C1'	2.92	105.38	100.98
44	PP	501	GTP	C2-N1-C6	-2.92	119.72	125.10
44	YF	501	GTP	C2-N1-C6	-2.92	119.72	125.10
44	ND	501	GTP	C2-N1-C6	-2.92	119.72	125.10
44	ON	501	GTP	C3'-C2'-C1'	2.92	105.38	100.98
46	QQ	501	GDP	C3'-C2'-C1'	2.92	105.38	100.98
44	SJ	501	GTP	C3'-C2'-C1'	2.92	105.37	100.98
44	RL	501	GTP	C2-N1-C6	-2.92	119.72	125.10
44	ZJ	501	GTP	C2-N1-C6	-2.92	119.72	125.10
44	RN	501	GTP	C3'-C2'-C1'	2.92	105.37	100.98
44	QF	501	GTP	C2-N1-C6	-2.92	119.72	125.10
44	SL	501	GTP	C2-N1-C6	-2.92	119.73	125.10
44	RD	501	GTP	C2-N1-C6	-2.91	119.73	125.10
44	XH	501	GTP	C2-N1-C6	-2.91	119.73	125.10
44	NL	501	GTP	C2-N1-C6	-2.91	119.74	125.10
44	OF	501	GTP	C2-N1-C6	-2.91	119.74	125.10
44	QH	501	GTP	C3'-C2'-C1'	2.91	105.36	100.98
44	OL	501	GTP	C2-N1-C6	-2.91	119.74	125.10
44	ZF	501	GTP	C3'-C2'-C1'	2.91	105.35	100.98
44	WN	501	GTP	C2-N1-C6	-2.91	119.75	125.10
44	SD	501	GTP	C2-N1-C6	-2.91	119.75	125.10
44	NH	501	GTP	C3'-C2'-C1'	2.91	105.35	100.98
44	VH	501	GTP	C2-N1-C6	-2.91	119.75	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
44	ZB	501	GTP	C3'-C2'-C1'	2.91	105.35	100.98
46	QC	501	GDP	C3'-C2'-C1'	2.91	105.35	100.98
46	ZK	501	GDP	C3'-C2'-C1'	2.91	105.35	100.98
44	YL	501	GTP	PA-O3A-PB	-2.90	122.86	132.83
46	RI	502	GDP	C3'-C2'-C1'	2.90	105.35	100.98
46	UG	501	GDP	C3'-C2'-C1'	2.90	105.35	100.98
43	C2	2001	ANP	C1'-N9-C4	2.90	131.74	126.64
44	ZL	501	GTP	C3'-C2'-C1'	2.90	105.35	100.98
44	RF	501	GTP	PB-O3B-PG	-2.90	122.86	132.83
44	ON	501	GTP	C2-N1-C6	-2.90	119.75	125.10
44	QH	501	GTP	C2-N1-C6	-2.90	119.75	125.10
44	YP	501	GTP	C2-N1-C6	-2.90	119.75	125.10
44	TH	501	GTP	C2-N1-C6	-2.90	119.75	125.10
44	WJ	501	GTP	C2-N1-C6	-2.90	119.76	125.10
46	PE	501	GDP	C3'-C2'-C1'	2.90	105.34	100.98
44	ZP	501	GTP	C3'-C2'-C1'	2.90	105.34	100.98
44	UJ	501	GTP	C3'-C2'-C1'	2.90	105.34	100.98
44	OH	501	GTP	C8-N7-C5	2.90	108.51	102.99
44	TH	501	GTP	PA-O3A-PB	-2.89	122.90	132.83
44	UJ	501	GTP	C2-N1-C6	-2.89	119.77	125.10
44	TJ	501	GTP	C2-N1-C6	-2.89	119.77	125.10
42	1B	2601	ADP	N6-C6-N1	-2.89	112.57	118.57
44	SH	501	GTP	C3'-C2'-C1'	2.89	105.33	100.98
44	NN	501	GTP	C3'-C2'-C1'	2.89	105.33	100.98
44	UF	501	GTP	C2-N1-C6	-2.89	119.78	125.10
44	TD	501	GTP	C2-N1-C6	-2.89	119.78	125.10
44	YN	501	GTP	C3'-C2'-C1'	2.89	105.33	100.98
44	XD	501	GTP	C3'-C2'-C1'	2.89	105.32	100.98
44	QD	501	GTP	C2-N1-C6	-2.88	119.79	125.10
42	1B	2601	ADP	C3'-C2'-C1'	2.88	105.32	100.98
44	SB	501	GTP	C2-N1-C6	-2.88	119.79	125.10
44	QP	501	GTP	C2-N1-C6	-2.88	119.80	125.10
44	SF	501	GTP	C2-N1-C6	-2.88	119.80	125.10
44	XF	501	GTP	C2-N1-C6	-2.88	119.80	125.10
44	WD	501	GTP	C2-N1-C6	-2.88	119.80	125.10
44	VL	501	GTP	C2-N1-C6	-2.88	119.80	125.10
44	YH	501	GTP	C3'-C2'-C1'	2.87	105.31	100.98
44	PF	501	GTP	C2-N1-C6	-2.87	119.81	125.10
44	XB	501	GTP	C2-N1-C6	-2.87	119.81	125.10
44	YB	501	GTP	C2-N1-C6	-2.87	119.81	125.10
44	PD	501	GTP	C2-N1-C6	-2.87	119.81	125.10
44	RJ	501	GTP	C2-N1-C6	-2.87	119.81	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
46	TE	501	GDP	C3'-C2'-C1'	2.87	105.30	100.98
44	XL	501	GTP	C2-N1-C6	-2.87	119.81	125.10
44	TN	501	GTP	C2-N1-C6	-2.87	119.81	125.10
44	ZJ	501	GTP	C3'-C2'-C1'	2.87	105.30	100.98
44	OL	501	GTP	C3'-C2'-C1'	2.87	105.30	100.98
46	OI	501	GDP	C3'-C2'-C1'	2.87	105.30	100.98
44	YN	501	GTP	C2-N1-C6	-2.87	119.82	125.10
44	QJ	501	GTP	C3'-C2'-C1'	2.86	105.29	100.98
44	WB	501	GTP	C2-N1-C6	-2.86	119.82	125.10
44	YD	501	GTP	C3'-C2'-C1'	2.86	105.29	100.98
44	RH	501	GTP	C2-N1-C6	-2.86	119.83	125.10
44	YD	501	GTP	C2-N1-C6	-2.86	119.84	125.10
44	RP	501	GTP	C2-N1-C6	-2.86	119.84	125.10
44	TN	501	GTP	C3'-C2'-C1'	2.86	105.28	100.98
44	TP	501	GTP	C2-N1-C6	-2.85	119.84	125.10
44	XD	501	GTP	C2-N1-C6	-2.85	119.84	125.10
44	OH	501	GTP	C3'-C2'-C1'	2.85	105.27	100.98
44	TP	501	GTP	C3'-C2'-C1'	2.85	105.27	100.98
44	TB	501	GTP	C2-N1-C6	-2.85	119.85	125.10
44	YH	501	GTP	C2-N1-C6	-2.85	119.85	125.10
44	TB	501	GTP	C3'-C2'-C1'	2.85	105.26	100.98
44	ZD	501	GTP	C3'-C2'-C1'	2.85	105.26	100.98
44	OJ	501	GTP	C2-N1-C6	-2.85	119.86	125.10
44	TF	501	GTP	C2-N1-C6	-2.85	119.86	125.10
44	YL	501	GTP	C2-N1-C6	-2.84	119.86	125.10
43	C3	2001	ANP	PB-O3A-PA	-2.84	122.61	132.62
44	VD	501	GTP	C3'-C2'-C1'	2.84	105.25	100.98
44	XL	501	GTP	C3'-C2'-C1'	2.84	105.25	100.98
44	SL	501	GTP	C3'-C2'-C1'	2.84	105.25	100.98
46	XO	501	GDP	C3'-C2'-C1'	2.83	105.24	100.98
44	RP	501	GTP	PA-O3A-PB	-2.83	123.10	132.83
44	PN	501	GTP	C3'-C2'-C1'	2.83	105.24	100.98
44	UB	501	GTP	C2-N1-C6	-2.83	119.89	125.10
44	WF	501	GTP	C3'-C2'-C1'	2.83	105.24	100.98
44	OD	501	GTP	C3'-C2'-C1'	2.83	105.24	100.98
44	UL	501	GTP	C2-N1-C6	-2.83	119.89	125.10
46	XE	501	GDP	C3'-C2'-C1'	2.83	105.23	100.98
44	PH	501	GTP	C2-N1-C6	-2.83	119.89	125.10
44	UB	501	GTP	C3'-C2'-C1'	2.83	105.23	100.98
44	PJ	501	GTP	PB-O3B-PG	-2.82	123.14	132.83
44	ZL	501	GTP	C2-N1-C6	-2.82	119.90	125.10
44	VN	501	GTP	C2-N1-C6	-2.82	119.90	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
46	UO	501	GDP	C3'-C2'-C1'	2.82	105.22	100.98
44	TJ	501	GTP	C3'-C2'-C1'	2.82	105.22	100.98
44	ZH	501	GTP	C2-N1-C6	-2.82	119.91	125.10
44	ZN	501	GTP	C2-N1-C6	-2.82	119.91	125.10
44	UP	501	GTP	C2-N1-C6	-2.81	119.93	125.10
44	PL	501	GTP	C2-N1-C6	-2.80	119.95	125.10
42	1D	2601	ADP	C2-N1-C6	2.80	123.54	118.75
44	RH	501	GTP	PA-O3A-PB	-2.80	123.23	132.83
44	SN	501	GTP	C2-N1-C6	-2.80	119.95	125.10
44	VF	501	GTP	C2-N1-C6	-2.79	119.95	125.10
44	OD	501	GTP	C2-N1-C6	-2.79	119.96	125.10
44	XN	501	GTP	C2-N1-C6	-2.79	119.96	125.10
46	VK	501	GDP	C3'-C2'-C1'	2.79	105.18	100.98
44	YL	501	GTP	C3'-C2'-C1'	2.79	105.17	100.98
46	NK	501	GDP	C3'-C2'-C1'	2.79	105.17	100.98
44	OF	501	GTP	C3'-C2'-C1'	2.79	105.17	100.98
44	YJ	501	GTP	C2-N1-C6	-2.78	119.97	125.10
44	XN	501	GTP	C3'-C2'-C1'	2.78	105.17	100.98
44	XJ	501	GTP	C3'-C2'-C1'	2.78	105.17	100.98
44	ZN	501	GTP	C3'-C2'-C1'	2.78	105.16	100.98
44	WB	501	GTP	C3'-C2'-C1'	2.78	105.16	100.98
44	XB	501	GTP	C3'-C2'-C1'	2.77	105.16	100.98
44	YJ	501	GTP	C3'-C2'-C1'	2.77	105.16	100.98
46	UK	501	GDP	C3'-C2'-C1'	2.77	105.15	100.98
46	RM	501	GDP	C3'-C2'-C1'	2.77	105.15	100.98
44	QP	501	GTP	C3'-C2'-C1'	2.77	105.15	100.98
44	XJ	501	GTP	C2-N1-C6	-2.76	120.01	125.10
44	VP	501	GTP	C3'-C2'-C1'	2.76	105.13	100.98
46	TO	501	GDP	C3'-C2'-C1'	2.75	105.12	100.98
44	RN	501	GTP	C2-N1-C6	-2.75	120.03	125.10
46	QI	501	GDP	C3'-C2'-C1'	2.74	105.11	100.98
44	OH	501	GTP	C2-N1-C6	-2.74	120.05	125.10
42	1B	2601	ADP	C2-N1-C6	2.74	123.44	118.75
44	NJ	501	GTP	O3G-PG-O3B	2.74	113.83	104.64
44	VF	501	GTP	C3'-C2'-C1'	2.74	105.10	100.98
46	ZC	501	GDP	C3'-C2'-C1'	2.74	105.10	100.98
42	1C	2601	ADP	C3'-C2'-C1'	2.74	105.10	100.98
44	TP	501	GTP	PA-O3A-PB	-2.73	123.45	132.83
44	OP	501	GTP	C3'-C2'-C1'	2.73	105.09	100.98
46	WM	501	GDP	C3'-C2'-C1'	2.73	105.09	100.98
44	VB	501	GTP	C2-N1-C6	-2.73	120.07	125.10
43	C2	2001	ANP	PB-O3A-PA	-2.72	123.02	132.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
44	ZF	501	GTP	C2-N1-C6	-2.72	120.09	125.10
44	NF	501	GTP	C3'-C2'-C1'	2.71	105.06	100.98
44	XF	501	GTP	C3'-C2'-C1'	2.71	105.06	100.98
44	RD	501	GTP	C3'-C2'-C1'	2.71	105.06	100.98
44	RP	501	GTP	C3'-C2'-C1'	2.69	105.03	100.98
44	UL	501	GTP	C3'-C2'-C1'	2.69	105.03	100.98
42	1A	2601	ADP	C2-N1-C6	2.69	123.36	118.75
44	ZP	501	GTP	C2-N1-C6	-2.69	120.14	125.10
44	UJ	501	GTP	PB-O3B-PG	-2.69	123.60	132.83
44	ZB	501	GTP	C2-N1-C6	-2.69	120.15	125.10
46	OE	501	GDP	C3'-C2'-C1'	2.69	105.02	100.98
44	VB	501	GTP	C3'-C2'-C1'	2.68	105.02	100.98
44	VJ	501	GTP	C3'-C2'-C1'	2.68	105.02	100.98
44	ZD	501	GTP	C2-N1-C6	-2.68	120.16	125.10
46	WC	501	GDP	C8-N7-C5	2.68	108.09	102.99
44	PL	501	GTP	C3'-C2'-C1'	2.66	104.99	100.98
46	QK	501	GDP	C3'-C2'-C1'	2.66	104.98	100.98
44	YP	501	GTP	PA-O3A-PB	-2.66	123.70	132.83
42	1D	2601	ADP	N6-C6-N1	-2.66	113.06	118.57
46	RK	501	GDP	C3'-C2'-C1'	2.66	104.98	100.98
44	VH	501	GTP	C3'-C2'-C1'	2.65	104.97	100.98
46	YG	501	GDP	C3'-C2'-C1'	2.65	104.97	100.98
44	VN	501	GTP	C3'-C2'-C1'	2.65	104.97	100.98
44	WH	501	GTP	C3'-C2'-C1'	2.65	104.96	100.98
42	1D	2601	ADP	C3'-C2'-C1'	2.63	104.94	100.98
43	1C	2602	ANP	PB-O3A-PA	-2.63	123.35	132.62
44	RH	501	GTP	C3'-C2'-C1'	2.62	104.92	100.98
46	OK	501	GDP	C3'-C2'-C1'	2.62	104.92	100.98
44	RF	501	GTP	C3'-C2'-C1'	2.62	104.92	100.98
43	1B	2602	ANP	O1B-PB-N3B	-2.62	107.92	111.77
44	TH	501	GTP	C3'-C2'-C1'	2.61	104.91	100.98
46	NM	501	GDP	C3'-C2'-C1'	2.61	104.91	100.98
46	XK	501	GDP	C2'-C3'-C4'	2.61	107.70	102.64
46	VO	501	GDP	C3'-C2'-C1'	2.60	104.89	100.98
42	1C	2601	ADP	C2-N1-C6	2.60	123.20	118.75
42	1A	2601	ADP	C3'-C2'-C1'	2.60	104.89	100.98
44	QD	501	GTP	PA-O3A-PB	-2.59	123.95	132.83
44	OL	501	GTP	PB-O3B-PG	-2.58	123.97	132.83
44	YH	501	GTP	PA-O3A-PB	-2.58	123.98	132.83
44	SD	501	GTP	C3'-C2'-C1'	2.56	104.83	100.98
46	RO	501	GDP	C3'-C2'-C1'	2.55	104.82	100.98
46	ZI	501	GDP	C3'-C2'-C1'	2.55	104.82	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
46	UC	501	GDP	C5-C6-N1	2.55	118.45	113.95
46	OG	501	GDP	C3'-C2'-C1'	2.54	104.81	100.98
46	WG	502	GDP	C3'-C2'-C1'	2.54	104.80	100.98
46	OK	501	GDP	C5-C6-N1	2.53	118.42	113.95
46	PK	501	GDP	C3'-C2'-C1'	2.52	104.77	100.98
44	VP	501	GTP	C2-N1-C6	-2.52	120.46	125.10
46	WC	501	GDP	C3'-C2'-C1'	2.52	104.77	100.98
46	YI	501	GDP	C8-N7-C5	2.51	107.76	102.99
46	OO	501	GDP	C3'-C2'-C1'	2.50	104.75	100.98
46	WK	501	GDP	C3'-C2'-C1'	2.50	104.74	100.98
46	UI	501	GDP	C5-C6-N1	2.49	118.36	113.95
46	OG	501	GDP	C5-C6-N1	2.49	118.36	113.95
46	SC	502	GDP	C3'-C2'-C1'	2.48	104.71	100.98
44	XF	501	GTP	O3G-PG-O3B	2.48	112.94	104.64
46	TG	502	GDP	C5-C6-N1	2.47	118.32	113.95
44	RL	501	GTP	C3'-C2'-C1'	2.47	104.69	100.98
46	QK	501	GDP	C5-C6-N1	2.46	118.30	113.95
46	OO	501	GDP	C5-C6-N1	2.46	118.30	113.95
46	TM	502	GDP	C5-C6-N1	2.46	118.30	113.95
46	SG	502	GDP	C8-N7-C5	2.46	107.67	102.99
44	RJ	501	GTP	C3'-C2'-C1'	2.45	104.67	100.98
46	UM	501	GDP	C3'-C2'-C1'	2.45	104.67	100.98
46	TK	501	GDP	C8-N7-C5	2.45	107.65	102.99
46	QQ	501	GDP	C5-C6-N1	2.44	118.26	113.95
46	QO	501	GDP	C8-N7-C5	2.44	107.63	102.99
46	YE	501	GDP	C3'-C2'-C1'	2.44	104.65	100.98
46	ZE	501	GDP	C8-N7-C5	2.43	107.62	102.99
46	WA	501	GDP	C5-C6-N1	2.43	118.24	113.95
46	PC	501	GDP	C5-C6-N1	2.42	118.23	113.95
46	XM	502	GDP	C3'-C2'-C1'	2.42	104.63	100.98
46	WG	502	GDP	C8-N7-C5	2.42	107.60	102.99
46	RE	501	GDP	C8-N7-C5	2.41	107.58	102.99
46	RE	501	GDP	C3'-C2'-C1'	2.41	104.60	100.98
46	XG	501	GDP	C3'-C2'-C1'	2.41	104.60	100.98
46	QE	501	GDP	C8-N7-C5	2.40	107.57	102.99
46	RI	502	GDP	C8-N7-C5	2.40	107.56	102.99
46	XA	501	GDP	C8-N7-C5	2.40	107.56	102.99
46	UE	501	GDP	C8-N7-C5	2.40	107.56	102.99
46	XM	502	GDP	C5-C6-N1	2.40	118.19	113.95
46	UO	501	GDP	C5-C6-N1	2.40	118.18	113.95
46	RM	501	GDP	C8-N7-C5	2.40	107.55	102.99
46	TC	501	GDP	C8-N7-C5	2.39	107.55	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
46	YO	501	GDP	C5-C6-N1	2.39	118.18	113.95
46	YI	501	GDP	C5-C6-N1	2.39	118.17	113.95
46	NC	501	GDP	C8-N7-C5	2.39	107.55	102.99
46	RG	501	GDP	C5-C6-N1	2.39	118.17	113.95
46	WK	501	GDP	C8-N7-C5	2.39	107.54	102.99
46	NC	501	GDP	C3'-C2'-C1'	2.39	104.57	100.98
46	YE	501	GDP	C5-C6-N1	2.39	118.17	113.95
46	XO	501	GDP	C5-C6-N1	2.38	118.16	113.95
46	QG	501	GDP	C8-N7-C5	2.38	107.53	102.99
46	TO	501	GDP	C8-N7-C5	2.38	107.53	102.99
46	YM	501	GDP	C5-C6-N1	2.38	118.16	113.95
46	PO	501	GDP	C5-C6-N1	2.38	118.16	113.95
46	TK	501	GDP	C5-C6-N1	2.38	118.15	113.95
46	NE	501	GDP	C8-N7-C5	2.38	107.52	102.99
46	YM	501	GDP	C8-N7-C5	2.38	107.52	102.99
46	NG	502	GDP	C8-N7-C5	2.38	107.52	102.99
46	XG	501	GDP	C8-N7-C5	2.38	107.52	102.99
46	TC	501	GDP	C5-C6-N1	2.38	118.15	113.95
46	ZG	501	GDP	C8-N7-C5	2.38	107.52	102.99
46	OE	501	GDP	C8-N7-C5	2.37	107.51	102.99
46	WM	501	GDP	C8-N7-C5	2.37	107.51	102.99
46	YE	501	GDP	C8-N7-C5	2.37	107.51	102.99
46	NK	501	GDP	C8-N7-C5	2.37	107.51	102.99
46	RG	501	GDP	C8-N7-C5	2.37	107.51	102.99
46	PM	501	GDP	C8-N7-C5	2.37	107.51	102.99
46	VK	501	GDP	C8-N7-C5	2.37	107.51	102.99
46	NI	501	GDP	C8-N7-C5	2.37	107.50	102.99
46	QI	501	GDP	C8-N7-C5	2.37	107.50	102.99
46	PE	501	GDP	C8-N7-C5	2.37	107.50	102.99
46	UM	501	GDP	C8-N7-C5	2.37	107.50	102.99
46	NM	501	GDP	C8-N7-C5	2.36	107.49	102.99
46	XE	501	GDP	C8-N7-C5	2.36	107.49	102.99
46	OQ	501	GDP	C5-C6-N1	2.36	118.12	113.95
46	TI	501	GDP	C3'-C2'-C1'	2.36	104.54	100.98
46	WE	501	GDP	C8-N7-C5	2.36	107.49	102.99
46	XM	502	GDP	C8-N7-C5	2.36	107.49	102.99
46	UM	501	GDP	C5-C6-N1	2.36	118.12	113.95
46	RM	501	GDP	C5-C6-N1	2.36	118.12	113.95
46	SE	501	GDP	C5-C6-N1	2.36	118.12	113.95
46	WO	501	GDP	C8-N7-C5	2.36	107.49	102.99
46	QC	501	GDP	C8-N7-C5	2.36	107.48	102.99
46	VO	501	GDP	C8-N7-C5	2.36	107.48	102.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
46	TI	501	GDP	C8-N7-C5	2.36	107.48	102.99
46	RI	502	GDP	C5-C6-N1	2.36	118.11	113.95
46	SM	501	GDP	C5-C6-N1	2.35	118.11	113.95
46	QO	501	GDP	C5-C6-N1	2.35	118.11	113.95
46	UE	501	GDP	C5-C6-N1	2.35	118.11	113.95
46	XC	501	GDP	C8-N7-C5	2.35	107.47	102.99
46	PK	501	GDP	C8-N7-C5	2.35	107.47	102.99
46	OE	501	GDP	C5-C6-N1	2.35	118.10	113.95
46	PK	501	GDP	C5-C6-N1	2.35	118.10	113.95
46	RE	501	GDP	C5-C6-N1	2.35	118.10	113.95
46	WI	501	GDP	C5-C6-N1	2.35	118.10	113.95
46	VM	501	GDP	C8-N7-C5	2.35	107.47	102.99
46	YK	501	GDP	C8-N7-C5	2.35	107.47	102.99
46	XO	501	GDP	C8-N7-C5	2.35	107.46	102.99
46	XI	501	GDP	C5-C6-N1	2.35	118.10	113.95
46	WA	501	GDP	C8-N7-C5	2.35	107.46	102.99
46	NO	501	GDP	C8-N7-C5	2.34	107.46	102.99
46	VG	501	GDP	C8-N7-C5	2.34	107.46	102.99
46	ZE	501	GDP	C5-C6-N1	2.34	118.09	113.95
46	XI	501	GDP	C8-N7-C5	2.34	107.45	102.99
46	QC	501	GDP	C5-C6-N1	2.34	118.09	113.95
46	QM	501	GDP	C5-C6-N1	2.34	118.08	113.95
46	UI	501	GDP	C8-N7-C5	2.34	107.45	102.99
46	VK	501	GDP	C5-C6-N1	2.34	118.08	113.95
46	ZM	501	GDP	C8-N7-C5	2.34	107.44	102.99
46	NE	501	GDP	C2'-C3'-C4'	2.34	107.18	102.64
46	SE	501	GDP	C8-N7-C5	2.34	107.44	102.99
46	SM	501	GDP	C8-N7-C5	2.34	107.44	102.99
46	OM	501	GDP	C5-C6-N1	2.34	118.08	113.95
46	SC	502	GDP	C8-N7-C5	2.33	107.44	102.99
46	SG	502	GDP	C5-C6-N1	2.33	118.07	113.95
46	TM	502	GDP	C8-N7-C5	2.33	107.43	102.99
46	VC	501	GDP	C8-N7-C5	2.33	107.43	102.99
46	ZK	501	GDP	C8-N7-C5	2.33	107.43	102.99
46	QK	501	GDP	C8-N7-C5	2.33	107.43	102.99
46	YG	501	GDP	C8-N7-C5	2.33	107.43	102.99
46	NE	501	GDP	C5-C6-N1	2.33	118.06	113.95
46	ZI	501	GDP	C8-N7-C5	2.33	107.42	102.99
44	XF	501	GTP	PB-O3B-PG	-2.33	124.84	132.83
46	YC	501	GDP	C8-N7-C5	2.32	107.42	102.99
46	NG	502	GDP	C5-C6-N1	2.32	118.06	113.95
46	TO	501	GDP	C5-C6-N1	2.32	118.06	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
46	QQ	501	GDP	C8-N7-C5	2.32	107.41	102.99
46	RK	501	GDP	C8-N7-C5	2.32	107.41	102.99
44	SJ	501	GTP	O6-C6-C5	-2.32	119.84	124.37
46	ZG	501	GDP	C5-C6-N1	2.32	118.05	113.95
46	PQ	501	GDP	C8-N7-C5	2.32	107.41	102.99
46	RO	501	GDP	C8-N7-C5	2.32	107.41	102.99
46	RC	501	GDP	C5-C6-N1	2.32	118.05	113.95
46	TE	501	GDP	C8-N7-C5	2.32	107.41	102.99
46	SC	502	GDP	C5-C6-N1	2.32	118.05	113.95
46	OI	501	GDP	C8-N7-C5	2.32	107.41	102.99
46	OI	501	GDP	C5-C6-N1	2.32	118.05	113.95
46	UO	501	GDP	C8-N7-C5	2.32	107.41	102.99
46	ZO	501	GDP	C8-N7-C5	2.32	107.41	102.99
46	RK	501	GDP	C5-C6-N1	2.32	118.04	113.95
46	ZK	501	GDP	C5-C6-N1	2.32	118.04	113.95
46	RC	501	GDP	C8-N7-C5	2.31	107.40	102.99
46	PG	501	GDP	C8-N7-C5	2.31	107.39	102.99
46	NO	501	GDP	C5-C6-N1	2.31	118.03	113.95
46	XE	501	GDP	C5-C6-N1	2.31	118.03	113.95
46	TG	502	GDP	C8-N7-C5	2.31	107.39	102.99
46	OC	501	GDP	C5-C6-N1	2.31	118.03	113.95
46	YK	501	GDP	C5-C6-N1	2.31	118.03	113.95
46	PE	501	GDP	C5-C6-N1	2.31	118.03	113.95
46	WM	501	GDP	C5-C6-N1	2.31	118.03	113.95
46	PI	502	GDP	C8-N7-C5	2.31	107.39	102.99
44	RL	501	GTP	O6-C6-C5	-2.31	119.86	124.37
46	YO	501	GDP	C8-N7-C5	2.31	107.39	102.99
44	OP	501	GTP	O6-C6-C5	-2.31	119.87	124.37
46	ZI	501	GDP	C5-C6-N1	2.31	118.03	113.95
46	WE	501	GDP	C5-C6-N1	2.31	118.02	113.95
46	TE	501	GDP	C5-C6-N1	2.31	118.02	113.95
46	QI	501	GDP	C5-C6-N1	2.30	118.02	113.95
46	SK	501	GDP	C5-C6-N1	2.30	118.02	113.95
46	VG	501	GDP	C5-C6-N1	2.30	118.02	113.95
46	WO	501	GDP	C5-C6-N1	2.30	118.02	113.95
46	VI	501	GDP	C5-C6-N1	2.30	118.02	113.95
46	ZO	501	GDP	C5-C6-N1	2.30	118.02	113.95
46	WI	501	GDP	C8-N7-C5	2.30	107.38	102.99
43	1B	2602	ANP	C5-C6-N6	2.30	123.85	120.35
46	PO	501	GDP	C8-N7-C5	2.30	107.38	102.99
46	VM	501	GDP	PA-O3A-PB	-2.30	124.93	132.83
46	TK	501	GDP	C3'-C2'-C1'	2.30	104.44	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
44	OL	501	GTP	O3G-PG-O3B	2.30	112.34	104.64
46	VO	501	GDP	C5-C6-N1	2.30	118.01	113.95
46	QG	501	GDP	C5-C6-N1	2.30	118.01	113.95
46	RO	501	GDP	C5-C6-N1	2.30	118.01	113.95
46	SK	501	GDP	C8-N7-C5	2.29	107.36	102.99
46	UK	501	GDP	C8-N7-C5	2.29	107.36	102.99
46	UG	501	GDP	C5-C6-N1	2.29	118.00	113.95
46	YG	501	GDP	C5-C6-N1	2.29	118.00	113.95
46	VM	501	GDP	C5-C6-N1	2.29	118.00	113.95
46	NI	501	GDP	C5-C6-N1	2.29	117.99	113.95
46	NM	501	GDP	C5-C6-N1	2.29	117.99	113.95
46	XC	501	GDP	C5-C6-N1	2.29	117.99	113.95
46	UG	501	GDP	C8-N7-C5	2.29	107.35	102.99
46	VC	501	GDP	C5-C6-N1	2.29	117.99	113.95
46	VE	501	GDP	C8-N7-C5	2.29	107.35	102.99
46	PM	501	GDP	C5-C6-N1	2.29	117.99	113.95
46	OC	501	GDP	C8-N7-C5	2.28	107.34	102.99
46	TI	501	GDP	C5-C6-N1	2.28	117.98	113.95
46	OG	501	GDP	C8-N7-C5	2.28	107.34	102.99
46	OQ	501	GDP	C8-N7-C5	2.28	107.34	102.99
46	PQ	501	GDP	C5-C6-N1	2.28	117.98	113.95
43	1D	2602	ANP	C5-C6-N6	2.28	123.81	120.35
46	SO	502	GDP	C8-N7-C5	2.28	107.33	102.99
46	YC	501	GDP	C5-C6-N1	2.27	117.97	113.95
46	XG	501	GDP	C5-C6-N1	2.27	117.97	113.95
46	VI	501	GDP	C8-N7-C5	2.27	107.32	102.99
46	WK	501	GDP	C5-C6-N1	2.27	117.96	113.95
44	UD	501	GTP	C3'-C2'-C1'	2.27	104.39	100.98
46	OM	501	GDP	C8-N7-C5	2.27	107.31	102.99
43	1A	2602	ANP	C5-C6-N6	2.27	123.80	120.35
44	VJ	501	GTP	O6-C6-C5	-2.26	119.95	124.37
46	WG	502	GDP	C5-C6-N1	2.26	117.95	113.95
46	SI	501	GDP	C8-N7-C5	2.26	107.30	102.99
46	QM	501	GDP	C8-N7-C5	2.26	107.30	102.99
44	PJ	501	GTP	O6-C6-C5	-2.26	119.96	124.37
46	OK	501	GDP	C8-N7-C5	2.26	107.29	102.99
46	PG	501	GDP	C5-C6-N1	2.26	117.94	113.95
46	SI	501	GDP	C5-C6-N1	2.25	117.93	113.95
44	VD	501	GTP	O6-C6-C5	-2.25	119.97	124.37
46	PC	501	GDP	C8-N7-C5	2.25	107.28	102.99
46	UK	501	GDP	C5-C6-N1	2.25	117.93	113.95
46	XA	501	GDP	C5-C6-N1	2.25	117.93	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
46	WC	501	GDP	C5-C6-N1	2.24	117.91	113.95
44	YP	501	GTP	O6-C6-C5	-2.24	120.00	124.37
44	PN	501	GTP	O6-C6-C5	-2.24	120.00	124.37
46	ZC	501	GDP	C8-N7-C5	2.24	107.25	102.99
44	TH	501	GTP	O6-C6-C5	-2.23	120.01	124.37
46	NC	501	GDP	C5-C6-N1	2.23	117.90	113.95
44	TJ	501	GTP	O6-C6-C5	-2.23	120.01	124.37
44	ZL	501	GTP	O6-C6-C5	-2.23	120.01	124.37
46	NK	501	GDP	C5-C6-N1	2.23	117.89	113.95
46	XK	501	GDP	C5-C6-N1	2.23	117.89	113.95
46	ZM	501	GDP	C5-C6-N1	2.23	117.89	113.95
44	RD	501	GTP	O6-C6-C5	-2.23	120.02	124.37
44	UH	501	GTP	O6-C6-C5	-2.22	120.03	124.37
44	XL	501	GTP	O6-C6-C5	-2.22	120.03	124.37
46	XK	501	GDP	C8-N7-C5	2.22	107.22	102.99
44	VH	501	GTP	O6-C6-C5	-2.22	120.04	124.37
44	WH	501	GTP	O6-C6-C5	-2.21	120.05	124.37
44	QN	501	GTP	O6-C6-C5	-2.21	120.05	124.37
44	TP	501	GTP	O6-C6-C5	-2.21	120.05	124.37
46	OO	501	GDP	C8-N7-C5	2.21	107.20	102.99
44	PH	501	GTP	O6-C6-C5	-2.21	120.06	124.37
46	RG	501	GDP	C3'-C2'-C1'	2.21	104.30	100.98
46	UC	501	GDP	C8-N7-C5	2.21	107.20	102.99
44	QL	501	GTP	O6-C6-C5	-2.21	120.06	124.37
44	WB	501	GTP	O6-C6-C5	-2.21	120.06	124.37
44	YB	501	GTP	O6-C6-C5	-2.20	120.07	124.37
46	PI	502	GDP	C5-C6-N1	2.20	117.84	113.95
43	1C	2602	ANP	O1B-PB-N3B	-2.20	108.53	111.77
46	SO	502	GDP	C5-C6-N1	2.20	117.84	113.95
44	PD	501	GTP	O6-C6-C5	-2.20	120.07	124.37
44	UN	501	GTP	O3G-PG-O3B	2.20	112.00	104.64
44	XF	501	GTP	O6-C6-C5	-2.19	120.09	124.37
44	YF	501	GTP	O6-C6-C5	-2.19	120.09	124.37
46	NI	501	GDP	C3'-C2'-C1'	2.19	104.28	100.98
44	NJ	501	GTP	O6-C6-C5	-2.19	120.09	124.37
46	ZE	501	GDP	C3'-C2'-C1'	2.19	104.28	100.98
44	UB	501	GTP	O6-C6-C5	-2.19	120.09	124.37
44	RJ	501	GTP	O6-C6-C5	-2.19	120.10	124.37
44	TD	501	GTP	O6-C6-C5	-2.19	120.10	124.37
44	SP	501	GTP	O6-C6-C5	-2.19	120.10	124.37
44	XB	501	GTP	O6-C6-C5	-2.19	120.10	124.37
44	OJ	501	GTP	O6-C6-C5	-2.19	120.10	124.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
44	ZJ	501	GTP	O6-C6-C5	-2.19	120.10	124.37
44	RH	501	GTP	O6-C6-C5	-2.19	120.10	124.37
44	WJ	501	GTP	O6-C6-C5	-2.19	120.10	124.37
46	SI	501	GDP	C3'-C2'-C1'	2.19	104.27	100.98
44	ON	501	GTP	O6-C6-C5	-2.18	120.11	124.37
44	SL	501	GTP	O6-C6-C5	-2.18	120.11	124.37
44	XH	501	GTP	O6-C6-C5	-2.18	120.11	124.37
43	1C	2602	ANP	O1G-PG-N3B	-2.18	108.56	111.77
43	1C	2602	ANP	C5-C6-N6	2.18	123.67	120.35
44	TB	501	GTP	O6-C6-C5	-2.18	120.11	124.37
44	QF	501	GTP	O6-C6-C5	-2.18	120.11	124.37
44	TN	501	GTP	O6-C6-C5	-2.18	120.12	124.37
44	XD	501	GTP	O6-C6-C5	-2.18	120.12	124.37
44	OH	501	GTP	O6-C6-C5	-2.18	120.12	124.37
44	QJ	501	GTP	O6-C6-C5	-2.17	120.12	124.37
44	WN	501	GTP	O6-C6-C5	-2.17	120.12	124.37
44	NB	501	GTP	O6-C6-C5	-2.17	120.13	124.37
44	TL	501	GTP	O6-C6-C5	-2.17	120.13	124.37
44	XJ	501	GTP	O6-C6-C5	-2.17	120.14	124.37
46	VE	501	GDP	C5-C6-N1	2.17	117.78	113.95
46	UC	501	GDP	O6-C6-C5	-2.16	120.14	124.37
44	PJ	501	GTP	O3G-PG-O3B	2.16	111.89	104.64
44	VL	501	GTP	O6-C6-C5	-2.16	120.15	124.37
44	SB	501	GTP	O6-C6-C5	-2.16	120.15	124.37
46	QE	501	GDP	C5-C6-N1	2.16	117.77	113.95
44	QD	501	GTP	O6-C6-C5	-2.16	120.15	124.37
44	YH	501	GTP	O6-C6-C5	-2.16	120.15	124.37
44	PL	501	GTP	O6-C6-C5	-2.16	120.16	124.37
44	XN	501	GTP	O6-C6-C5	-2.16	120.16	124.37
44	WF	501	GTP	O6-C6-C5	-2.16	120.16	124.37
44	NH	501	GTP	O6-C6-C5	-2.16	120.16	124.37
44	YD	501	GTP	O6-C6-C5	-2.16	120.16	124.37
44	RF	501	GTP	O3G-PG-O3B	2.16	111.86	104.64
46	ZC	501	GDP	C5-C6-N1	2.16	117.76	113.95
44	YN	501	GTP	O6-C6-C5	-2.15	120.17	124.37
46	YK	501	GDP	C3'-C2'-C1'	2.15	104.22	100.98
44	UF	501	GTP	O6-C6-C5	-2.15	120.17	124.37
44	SF	501	GTP	O6-C6-C5	-2.15	120.18	124.37
46	ZG	501	GDP	C3'-C2'-C1'	2.15	104.21	100.98
44	UJ	501	GTP	O6-C6-C5	-2.15	120.18	124.37
44	PF	501	GTP	O6-C6-C5	-2.15	120.18	124.37
44	VP	501	GTP	O6-C6-C5	-2.14	120.19	124.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
44	UL	501	GTP	O6-C6-C5	-2.14	120.19	124.37
44	ND	501	GTP	O6-C6-C5	-2.14	120.19	124.37
44	NF	501	GTP	O6-C6-C5	-2.14	120.19	124.37
44	VN	501	GTP	O6-C6-C5	-2.14	120.20	124.37
44	QH	501	GTP	O6-C6-C5	-2.14	120.20	124.37
44	NL	501	GTP	O6-C6-C5	-2.14	120.20	124.37
44	ZP	501	GTP	O6-C6-C5	-2.14	120.20	124.37
44	YJ	501	GTP	O6-C6-C5	-2.13	120.20	124.37
44	TF	501	GTP	O6-C6-C5	-2.13	120.20	124.37
44	YL	501	GTP	O6-C6-C5	-2.13	120.20	124.37
44	UN	501	GTP	O6-C6-C5	-2.13	120.21	124.37
46	SI	501	GDP	C2'-C3'-C4'	2.13	106.78	102.64
44	RF	501	GTP	O6-C6-C5	-2.13	120.21	124.37
44	WD	501	GTP	O6-C6-C5	-2.13	120.21	124.37
44	SD	501	GTP	O6-C6-C5	-2.13	120.21	124.37
44	VB	501	GTP	O6-C6-C5	-2.13	120.21	124.37
43	C0	2001	ANP	C5-C6-N6	2.13	123.59	120.35
43	C2	2001	ANP	C5-C6-N6	2.13	123.58	120.35
44	SN	501	GTP	O6-C6-C5	-2.13	120.22	124.37
44	VF	501	GTP	O6-C6-C5	-2.13	120.22	124.37
44	QP	501	GTP	O6-C6-C5	-2.12	120.23	124.37
44	ZD	501	GTP	O6-C6-C5	-2.12	120.24	124.37
44	OL	501	GTP	O6-C6-C5	-2.12	120.24	124.37
44	ZB	501	GTP	O6-C6-C5	-2.12	120.24	124.37
44	OD	501	GTP	O6-C6-C5	-2.11	120.25	124.37
44	SH	501	GTP	O6-C6-C5	-2.11	120.25	124.37
42	1A	2601	ADP	N6-C6-N1	-2.11	114.20	118.57
44	OF	501	GTP	O6-C6-C5	-2.11	120.25	124.37
44	UL	501	GTP	O3G-PG-O3B	2.11	111.70	104.64
44	VJ	501	GTP	O3G-PG-O3B	2.11	111.69	104.64
46	XI	501	GDP	C3'-C2'-C1'	2.10	104.15	100.98
44	ZN	501	GTP	O6-C6-C5	-2.10	120.26	124.37
44	PP	501	GTP	O6-C6-C5	-2.10	120.27	124.37
46	VE	501	GDP	C3'-C2'-C1'	2.10	104.14	100.98
46	YM	501	GDP	C3'-C2'-C1'	2.10	104.13	100.98
44	WL	501	GTP	O6-C6-C5	-2.09	120.28	124.37
44	RP	501	GTP	O6-C6-C5	-2.09	120.29	124.37
44	UD	501	GTP	O6-C6-C5	-2.08	120.31	124.37
44	UP	501	GTP	O6-C6-C5	-2.08	120.31	124.37
43	C1	2001	ANP	C5-C6-N6	2.07	123.50	120.35
46	UC	501	GDP	C3'-C2'-C1'	2.07	104.10	100.98
44	ZF	501	GTP	O6-C6-C5	-2.07	120.33	124.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
46	OO	501	GDP	O6-C6-C5	-2.07	120.33	124.37
44	YN	501	GTP	O3G-PG-O3B	2.06	111.55	104.64
44	YL	501	GTP	O3G-PG-O3B	2.06	111.53	104.64
46	VI	501	GDP	O6-C6-C5	-2.06	120.36	124.37
44	YD	501	GTP	O3G-PG-O3B	2.05	111.51	104.64
42	1C	2601	ADP	N6-C6-N1	-2.04	114.34	118.57
44	NN	501	GTP	O6-C6-C5	-2.04	120.39	124.37
46	VM	501	GDP	C3'-C2'-C1'	2.03	104.03	100.98
46	UE	501	GDP	C3'-C2'-C1'	2.03	104.03	100.98
44	VL	501	GTP	O3G-PG-O3B	2.02	111.42	104.64
44	ZH	501	GTP	O6-C6-C5	-2.02	120.44	124.37
46	TG	502	GDP	C3'-C2'-C1'	2.01	104.01	100.98
44	SH	501	GTP	O3G-PG-O3B	2.01	111.39	104.64
44	ZD	501	GTP	O3G-PG-O3B	2.00	111.36	104.64
46	QM	501	GDP	C2'-C3'-C4'	2.00	106.53	102.64

There are no chirality outliers.

All (603) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
42	1A	2601	ADP	C5'-O5'-PA-O3A
42	1B	2601	ADP	C5'-O5'-PA-O3A
42	1C	2601	ADP	C5'-O5'-PA-O3A
42	1D	2601	ADP	C5'-O5'-PA-O1A
42	1D	2601	ADP	C5'-O5'-PA-O3A
43	1A	2602	ANP	PB-N3B-PG-O1G
43	1A	2602	ANP	PG-N3B-PB-O1B
43	1A	2602	ANP	PA-O3A-PB-O1B
43	1A	2602	ANP	PA-O3A-PB-O2B
43	1A	2602	ANP	C5'-O5'-PA-O1A
43	1A	2602	ANP	C5'-O5'-PA-O2A
43	1B	2602	ANP	PB-N3B-PG-O1G
43	1B	2602	ANP	PG-N3B-PB-O1B
43	1B	2602	ANP	PB-O3A-PA-O5'
43	1B	2602	ANP	C5'-O5'-PA-O2A
43	1B	2602	ANP	O4'-C4'-C5'-O5'
43	1B	2602	ANP	C3'-C4'-C5'-O5'
43	1C	2602	ANP	PB-N3B-PG-O1G
43	1C	2602	ANP	PG-N3B-PB-O1B
43	1C	2602	ANP	PA-O3A-PB-O1B
43	1C	2602	ANP	PA-O3A-PB-O2B
43	1C	2602	ANP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
43	1C	2602	ANP	O4'-C4'-C5'-O5'
43	1C	2602	ANP	C3'-C4'-C5'-O5'
43	1D	2602	ANP	PB-N3B-PG-O1G
43	1D	2602	ANP	PG-N3B-PB-O1B
43	1D	2602	ANP	PG-N3B-PB-O3A
43	1D	2602	ANP	PA-O3A-PB-O1B
43	1D	2602	ANP	PA-O3A-PB-O2B
43	1D	2602	ANP	C5'-O5'-PA-O1A
43	1D	2602	ANP	C5'-O5'-PA-O3A
43	1D	2602	ANP	O4'-C4'-C5'-O5'
43	1D	2602	ANP	C3'-C4'-C5'-O5'
43	C0	2001	ANP	PB-N3B-PG-O1G
43	C1	2001	ANP	PB-N3B-PG-O1G
43	C2	2001	ANP	PB-N3B-PG-O1G
43	C3	2001	ANP	PB-N3B-PG-O1G
44	NB	501	GTP	C5'-O5'-PA-O1A
44	NB	501	GTP	C5'-O5'-PA-O2A
44	ND	501	GTP	C5'-O5'-PA-O3A
44	NH	501	GTP	C5'-O5'-PA-O1A
44	NJ	501	GTP	PB-O3B-PG-O3G
44	NL	501	GTP	C5'-O5'-PA-O3A
44	NL	501	GTP	C5'-O5'-PA-O1A
44	OD	501	GTP	C5'-O5'-PA-O3A
44	OD	501	GTP	C5'-O5'-PA-O1A
44	OD	501	GTP	C5'-O5'-PA-O2A
44	OH	501	GTP	C5'-O5'-PA-O1A
44	OH	501	GTP	C5'-O5'-PA-O2A
44	OJ	501	GTP	C5'-O5'-PA-O3A
44	OJ	501	GTP	C4'-C5'-O5'-PA
44	OL	501	GTP	C5'-O5'-PA-O3A
44	OL	501	GTP	C5'-O5'-PA-O1A
44	OL	501	GTP	C3'-C4'-C5'-O5'
44	ON	501	GTP	C5'-O5'-PA-O3A
44	ON	501	GTP	C5'-O5'-PA-O2A
44	PF	501	GTP	C5'-O5'-PA-O1A
44	PH	501	GTP	C5'-O5'-PA-O1A
44	PH	501	GTP	C5'-O5'-PA-O2A
44	PJ	501	GTP	C5'-O5'-PA-O3A
44	PJ	501	GTP	C5'-O5'-PA-O1A
44	PJ	501	GTP	C5'-O5'-PA-O2A
44	PP	501	GTP	C5'-O5'-PA-O1A
44	QD	501	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
44	QD	501	GTP	C5'-O5'-PA-O2A
44	QF	501	GTP	C5'-O5'-PA-O3A
44	QL	501	GTP	C5'-O5'-PA-O3A
44	QN	501	GTP	C5'-O5'-PA-O1A
44	QN	501	GTP	C5'-O5'-PA-O2A
44	QP	501	GTP	C5'-O5'-PA-O3A
44	QP	501	GTP	C5'-O5'-PA-O1A
44	QP	501	GTP	C5'-O5'-PA-O2A
44	RH	501	GTP	C5'-O5'-PA-O1A
44	RH	501	GTP	C5'-O5'-PA-O2A
44	RJ	501	GTP	C5'-O5'-PA-O1A
44	RL	501	GTP	C5'-O5'-PA-O3A
44	RL	501	GTP	C5'-O5'-PA-O2A
44	RN	501	GTP	C5'-O5'-PA-O1A
44	RN	501	GTP	C5'-O5'-PA-O2A
44	RP	501	GTP	C5'-O5'-PA-O1A
44	RP	501	GTP	C5'-O5'-PA-O2A
44	SD	501	GTP	C5'-O5'-PA-O3A
44	SF	501	GTP	C5'-O5'-PA-O3A
44	SF	501	GTP	C5'-O5'-PA-O1A
44	SH	501	GTP	PB-O3B-PG-O3G
44	SH	501	GTP	C5'-O5'-PA-O1A
44	SH	501	GTP	C5'-O5'-PA-O2A
44	TH	501	GTP	C5'-O5'-PA-O1A
44	TJ	501	GTP	C5'-O5'-PA-O1A
44	TJ	501	GTP	C5'-O5'-PA-O2A
44	TP	501	GTP	C5'-O5'-PA-O1A
44	TP	501	GTP	C5'-O5'-PA-O2A
44	UD	501	GTP	C5'-O5'-PA-O1A
44	UD	501	GTP	C5'-O5'-PA-O2A
44	UH	501	GTP	C5'-O5'-PA-O3A
44	UH	501	GTP	C5'-O5'-PA-O2A
44	UL	501	GTP	C5'-O5'-PA-O1A
44	UN	501	GTP	C5'-O5'-PA-O1A
44	VD	501	GTP	C5'-O5'-PA-O3A
44	VJ	501	GTP	C5'-O5'-PA-O1A
44	VJ	501	GTP	C5'-O5'-PA-O2A
44	VL	501	GTP	C5'-O5'-PA-O1A
44	WD	501	GTP	C5'-O5'-PA-O3A
44	WH	501	GTP	C5'-O5'-PA-O1A
44	WH	501	GTP	C5'-O5'-PA-O2A
44	WJ	501	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
44	WL	501	GTP	C5'-O5'-PA-O1A
44	WL	501	GTP	C5'-O5'-PA-O2A
44	WN	501	GTP	C5'-O5'-PA-O3A
44	WN	501	GTP	C5'-O5'-PA-O1A
44	WN	501	GTP	C5'-O5'-PA-O2A
44	WN	501	GTP	O4'-C4'-C5'-O5'
44	WN	501	GTP	C3'-C4'-C5'-O5'
44	XF	501	GTP	C5'-O5'-PA-O1A
44	XH	501	GTP	C5'-O5'-PA-O1A
44	XH	501	GTP	C5'-O5'-PA-O2A
44	XL	501	GTP	C5'-O5'-PA-O1A
44	XL	501	GTP	C5'-O5'-PA-O2A
44	YB	501	GTP	C5'-O5'-PA-O3A
44	YB	501	GTP	C5'-O5'-PA-O1A
44	YB	501	GTP	C5'-O5'-PA-O2A
44	YF	501	GTP	C5'-O5'-PA-O1A
44	YH	501	GTP	C5'-O5'-PA-O1A
44	YH	501	GTP	C5'-O5'-PA-O2A
44	YJ	501	GTP	C5'-O5'-PA-O1A
44	YL	501	GTP	C5'-O5'-PA-O1A
44	YL	501	GTP	C5'-O5'-PA-O2A
44	YP	501	GTP	C5'-O5'-PA-O1A
44	YP	501	GTP	C5'-O5'-PA-O2A
44	ZD	501	GTP	C5'-O5'-PA-O1A
44	ZH	501	GTP	C5'-O5'-PA-O1A
44	ZH	501	GTP	C5'-O5'-PA-O2A
44	ZJ	501	GTP	C5'-O5'-PA-O3A
44	ZN	501	GTP	C5'-O5'-PA-O1A
46	OE	501	GDP	O4'-C4'-C5'-O5'
46	OE	501	GDP	C3'-C4'-C5'-O5'
46	OM	501	GDP	O4'-C4'-C5'-O5'
46	OM	501	GDP	C3'-C4'-C5'-O5'
46	PQ	501	GDP	C5'-O5'-PA-O1A
46	QG	501	GDP	C5'-O5'-PA-O1A
46	RE	501	GDP	O4'-C4'-C5'-O5'
46	RE	501	GDP	C3'-C4'-C5'-O5'
46	TK	501	GDP	C3'-C4'-C5'-O5'
46	UE	501	GDP	PA-O3A-PB-O2B
46	VI	501	GDP	C5'-O5'-PA-O3A
46	VI	501	GDP	O4'-C4'-C5'-O5'
46	VI	501	GDP	C3'-C4'-C5'-O5'
46	VM	501	GDP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
46	VM	501	GDP	C5'-O5'-PA-O2A
46	WC	501	GDP	C5'-O5'-PA-O3A
46	WC	501	GDP	C5'-O5'-PA-O2A
46	WC	501	GDP	O4'-C4'-C5'-O5'
46	WC	501	GDP	C3'-C4'-C5'-O5'
46	WE	501	GDP	C3'-C4'-C5'-O5'
46	YE	501	GDP	O4'-C4'-C5'-O5'
46	YE	501	GDP	C3'-C4'-C5'-O5'
46	YI	501	GDP	C3'-C4'-C5'-O5'
46	YM	501	GDP	C3'-C4'-C5'-O5'
46	ZM	501	GDP	C5'-O5'-PA-O1A
43	1A	2602	ANP	C3'-C4'-C5'-O5'
44	OD	501	GTP	O4'-C4'-C5'-O5'
44	OD	501	GTP	C3'-C4'-C5'-O5'
44	OL	501	GTP	O4'-C4'-C5'-O5'
44	WF	501	GTP	O4'-C4'-C5'-O5'
44	WF	501	GTP	C3'-C4'-C5'-O5'
46	RG	501	GDP	C3'-C4'-C5'-O5'
46	SG	502	GDP	C3'-C4'-C5'-O5'
46	TK	501	GDP	O4'-C4'-C5'-O5'
46	UO	501	GDP	O4'-C4'-C5'-O5'
46	UO	501	GDP	C3'-C4'-C5'-O5'
46	WE	501	GDP	O4'-C4'-C5'-O5'
46	XO	501	GDP	C3'-C4'-C5'-O5'
46	YC	501	GDP	C3'-C4'-C5'-O5'
46	YI	501	GDP	O4'-C4'-C5'-O5'
46	YM	501	GDP	O4'-C4'-C5'-O5'
46	ZG	501	GDP	C3'-C4'-C5'-O5'
43	1B	2602	ANP	C4'-C5'-O5'-PA
42	1A	2601	ADP	C3'-C4'-C5'-O5'
42	1B	2601	ADP	O4'-C4'-C5'-O5'
42	1B	2601	ADP	C3'-C4'-C5'-O5'
42	1C	2601	ADP	O4'-C4'-C5'-O5'
42	1C	2601	ADP	C3'-C4'-C5'-O5'
43	1A	2602	ANP	O4'-C4'-C5'-O5'
43	C3	2001	ANP	O4'-C4'-C5'-O5'
44	SF	501	GTP	O4'-C4'-C5'-O5'
44	WL	501	GTP	O4'-C4'-C5'-O5'
44	WL	501	GTP	C3'-C4'-C5'-O5'
46	RG	501	GDP	O4'-C4'-C5'-O5'
46	SG	502	GDP	O4'-C4'-C5'-O5'
46	XO	501	GDP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
46	YC	501	GDP	O4'-C4'-C5'-O5'
46	ZG	501	GDP	O4'-C4'-C5'-O5'
44	QL	501	GTP	C4'-C5'-O5'-PA
42	1A	2601	ADP	O4'-C4'-C5'-O5'
43	C3	2001	ANP	C3'-C4'-C5'-O5'
44	SF	501	GTP	C3'-C4'-C5'-O5'
46	WA	501	GDP	C3'-C4'-C5'-O5'
46	XG	501	GDP	C3'-C4'-C5'-O5'
43	C0	2001	ANP	C4'-C5'-O5'-PA
44	PP	501	GTP	C3'-C4'-C5'-O5'
44	QP	501	GTP	C3'-C4'-C5'-O5'
44	RF	501	GTP	C3'-C4'-C5'-O5'
44	SD	501	GTP	C3'-C4'-C5'-O5'
44	VJ	501	GTP	C3'-C4'-C5'-O5'
46	PE	501	GDP	C3'-C4'-C5'-O5'
46	RM	501	GDP	C3'-C4'-C5'-O5'
46	RO	501	GDP	C3'-C4'-C5'-O5'
46	SO	502	GDP	C3'-C4'-C5'-O5'
46	XC	501	GDP	C3'-C4'-C5'-O5'
46	XM	502	GDP	C3'-C4'-C5'-O5'
46	YO	501	GDP	C3'-C4'-C5'-O5'
42	1D	2601	ADP	O4'-C4'-C5'-O5'
44	UL	501	GTP	C3'-C4'-C5'-O5'
44	XL	501	GTP	C3'-C4'-C5'-O5'
46	OC	501	GDP	C3'-C4'-C5'-O5'
46	OO	501	GDP	C3'-C4'-C5'-O5'
46	VO	501	GDP	C3'-C4'-C5'-O5'
46	WA	501	GDP	O4'-C4'-C5'-O5'
46	XC	501	GDP	O4'-C4'-C5'-O5'
46	XG	501	GDP	O4'-C4'-C5'-O5'
44	RF	501	GTP	O4'-C4'-C5'-O5'
44	WJ	501	GTP	C3'-C4'-C5'-O5'
46	PE	501	GDP	O4'-C4'-C5'-O5'
44	NL	501	GTP	PB-O3B-PG-O1G
44	OD	501	GTP	PB-O3B-PG-O1G
44	UD	501	GTP	C4'-C5'-O5'-PA
44	XL	501	GTP	C4'-C5'-O5'-PA
44	ND	501	GTP	PA-O3A-PB-O1B
44	OD	501	GTP	PA-O3A-PB-O1B
44	QP	501	GTP	PA-O3A-PB-O1B
44	WN	501	GTP	PA-O3A-PB-O1B
44	YF	501	GTP	PA-O3A-PB-O1B

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Mol	Chain	Res	Type	Atoms
44	ZF	501	GTP	PA-O3A-PB-O1B
42	1D	2601	ADP	C3'-C4'-C5'-O5'
44	ND	501	GTP	C3'-C4'-C5'-O5'
44	QP	501	GTP	O4'-C4'-C5'-O5'
46	YO	501	GDP	O4'-C4'-C5'-O5'
43	C1	2001	ANP	C4'-C5'-O5'-PA
43	C2	2001	ANP	C4'-C5'-O5'-PA
43	C3	2001	ANP	C4'-C5'-O5'-PA
44	NB	501	GTP	C4'-C5'-O5'-PA
44	SD	501	GTP	O4'-C4'-C5'-O5'
46	RO	501	GDP	O4'-C4'-C5'-O5'
44	ON	501	GTP	C4'-C5'-O5'-PA
44	PP	501	GTP	C4'-C5'-O5'-PA
44	QF	501	GTP	C4'-C5'-O5'-PA
44	RL	501	GTP	C4'-C5'-O5'-PA
44	SH	501	GTP	C4'-C5'-O5'-PA
44	TP	501	GTP	C4'-C5'-O5'-PA
44	VD	501	GTP	C4'-C5'-O5'-PA
44	VL	501	GTP	C4'-C5'-O5'-PA
44	YL	501	GTP	C4'-C5'-O5'-PA
44	ZH	501	GTP	C4'-C5'-O5'-PA
44	PP	501	GTP	O4'-C4'-C5'-O5'
44	VJ	501	GTP	O4'-C4'-C5'-O5'
46	RM	501	GDP	O4'-C4'-C5'-O5'
44	NJ	501	GTP	PB-O3B-PG-O1G
44	RF	501	GTP	PB-O3B-PG-O1G
44	WF	501	GTP	PB-O3B-PG-O1G
44	YJ	501	GTP	PB-O3B-PG-O1G
44	OP	501	GTP	C4'-C5'-O5'-PA
44	QD	501	GTP	C4'-C5'-O5'-PA
44	RH	501	GTP	C4'-C5'-O5'-PA
44	RN	501	GTP	C4'-C5'-O5'-PA
44	RP	501	GTP	C4'-C5'-O5'-PA
44	UH	501	GTP	C4'-C5'-O5'-PA
44	WJ	501	GTP	C4'-C5'-O5'-PA
44	XH	501	GTP	C4'-C5'-O5'-PA
46	PC	501	GDP	PA-O3A-PB-O3B
46	YC	501	GDP	PA-O3A-PB-O2B
43	C1	2001	ANP	C5'-O5'-PA-O3A
44	NH	501	GTP	C5'-O5'-PA-O3A
44	PP	501	GTP	C5'-O5'-PA-O3A
44	RJ	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
44	TH	501	GTP	C5'-O5'-PA-O3A
44	UD	501	GTP	C5'-O5'-PA-O3A
44	UL	501	GTP	C5'-O5'-PA-O3A
44	UN	501	GTP	C5'-O5'-PA-O3A
44	VL	501	GTP	C5'-O5'-PA-O3A
44	WJ	501	GTP	C5'-O5'-PA-O3A
44	XF	501	GTP	C5'-O5'-PA-O3A
44	YF	501	GTP	C5'-O5'-PA-O3A
44	YJ	501	GTP	C5'-O5'-PA-O3A
44	YP	501	GTP	C5'-O5'-PA-O3A
44	ZD	501	GTP	C5'-O5'-PA-O3A
44	ZN	501	GTP	C5'-O5'-PA-O3A
44	NH	501	GTP	C3'-C4'-C5'-O5'
44	OJ	501	GTP	C3'-C4'-C5'-O5'
46	OI	501	GDP	C3'-C4'-C5'-O5'
46	OK	501	GDP	C3'-C4'-C5'-O5'
46	SO	502	GDP	O4'-C4'-C5'-O5'
46	TI	501	GDP	C3'-C4'-C5'-O5'
46	XM	502	GDP	O4'-C4'-C5'-O5'
42	1A	2601	ADP	PB-O3A-PA-O2A
42	1C	2601	ADP	PB-O3A-PA-O2A
44	NJ	501	GTP	PG-O3B-PB-O1B
44	NN	501	GTP	PG-O3B-PB-O1B
44	OF	501	GTP	PA-O3A-PB-O1B
44	OL	501	GTP	PG-O3B-PB-O1B
44	OL	501	GTP	PA-O3A-PB-O2B
44	PD	501	GTP	PA-O3A-PB-O2B
44	PH	501	GTP	PG-O3B-PB-O1B
44	PN	501	GTP	PG-O3B-PB-O1B
44	RD	501	GTP	PG-O3B-PB-O1B
44	RD	501	GTP	PA-O3A-PB-O2B
44	RP	501	GTP	PB-O3A-PA-O2A
44	SB	501	GTP	PG-O3B-PB-O1B
44	SL	501	GTP	PA-O3A-PB-O2B
44	SN	501	GTP	PG-O3B-PB-O1B
44	TB	501	GTP	PA-O3A-PB-O2B
44	TD	501	GTP	PG-O3B-PB-O1B
44	TD	501	GTP	PA-O3A-PB-O2B
44	TF	501	GTP	PG-O3B-PB-O1B
44	TF	501	GTP	PA-O3A-PB-O2B
44	TJ	501	GTP	PB-O3A-PA-O2A
44	TN	501	GTP	PA-O3A-PB-O2B

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Mol	Chain	Res	Type	Atoms
44	UB	501	GTP	PA-O3A-PB-O1B
44	UF	501	GTP	PG-O3B-PB-O1B
44	UL	501	GTP	PG-O3B-PB-O1B
44	UP	501	GTP	PA-O3A-PB-O2B
44	VB	501	GTP	PA-O3A-PB-O2B
44	VP	501	GTP	PA-O3A-PB-O2B
44	WJ	501	GTP	PB-O3A-PA-O2A
44	ZD	501	GTP	PA-O3A-PB-O2B
44	ZF	501	GTP	PG-O3B-PB-O1B
44	ZP	501	GTP	PA-O3A-PB-O2B
43	1C	2602	ANP	C4'-C5'-O5'-PA
44	OH	501	GTP	C4'-C5'-O5'-PA
44	PH	501	GTP	C4'-C5'-O5'-PA
44	PJ	501	GTP	C4'-C5'-O5'-PA
44	QN	501	GTP	C4'-C5'-O5'-PA
44	TH	501	GTP	C4'-C5'-O5'-PA
44	TJ	501	GTP	C4'-C5'-O5'-PA
44	UL	501	GTP	C4'-C5'-O5'-PA
44	UN	501	GTP	C4'-C5'-O5'-PA
44	WH	501	GTP	C4'-C5'-O5'-PA
44	WL	501	GTP	C4'-C5'-O5'-PA
44	YH	501	GTP	C4'-C5'-O5'-PA
44	YJ	501	GTP	C4'-C5'-O5'-PA
44	YP	501	GTP	C4'-C5'-O5'-PA
44	ZN	501	GTP	C4'-C5'-O5'-PA
42	1A	2601	ADP	C5'-O5'-PA-O1A
42	1A	2601	ADP	C5'-O5'-PA-O2A
42	1B	2601	ADP	C5'-O5'-PA-O1A
42	1B	2601	ADP	C5'-O5'-PA-O2A
42	1C	2601	ADP	C5'-O5'-PA-O1A
42	1C	2601	ADP	C5'-O5'-PA-O2A
42	1D	2601	ADP	C5'-O5'-PA-O2A
43	1B	2602	ANP	C5'-O5'-PA-O1A
43	1C	2602	ANP	C5'-O5'-PA-O1A
44	ND	501	GTP	C5'-O5'-PA-O1A
44	ND	501	GTP	C5'-O5'-PA-O2A
44	NH	501	GTP	C5'-O5'-PA-O2A
44	OJ	501	GTP	C5'-O5'-PA-O2A
44	OP	501	GTP	C5'-O5'-PA-O2A
44	PF	501	GTP	C5'-O5'-PA-O2A
44	PP	501	GTP	C5'-O5'-PA-O2A
44	QF	501	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
44	QL	501	GTP	C5'-O5'-PA-O2A
44	RJ	501	GTP	C5'-O5'-PA-O2A
44	SD	501	GTP	C5'-O5'-PA-O1A
44	SD	501	GTP	C5'-O5'-PA-O2A
44	TH	501	GTP	C5'-O5'-PA-O2A
44	UH	501	GTP	C5'-O5'-PA-O1A
44	UL	501	GTP	C5'-O5'-PA-O2A
44	UN	501	GTP	C5'-O5'-PA-O2A
44	VD	501	GTP	C5'-O5'-PA-O2A
44	VH	501	GTP	C5'-O5'-PA-O2A
44	VL	501	GTP	C5'-O5'-PA-O2A
44	WD	501	GTP	C5'-O5'-PA-O1A
44	WD	501	GTP	C5'-O5'-PA-O2A
44	WJ	501	GTP	C5'-O5'-PA-O2A
44	XF	501	GTP	C5'-O5'-PA-O2A
44	YJ	501	GTP	C5'-O5'-PA-O2A
44	ZJ	501	GTP	C5'-O5'-PA-O1A
44	ZJ	501	GTP	C5'-O5'-PA-O2A
44	ZN	501	GTP	C5'-O5'-PA-O2A
46	VI	501	GDP	C5'-O5'-PA-O2A
44	QL	501	GTP	C3'-C4'-C5'-O5'
44	YB	501	GTP	C3'-C4'-C5'-O5'
46	NC	501	GDP	C3'-C4'-C5'-O5'
46	NG	502	GDP	C3'-C4'-C5'-O5'
46	QM	501	GDP	C3'-C4'-C5'-O5'
44	WB	501	GTP	C4'-C5'-O5'-PA
43	1D	2602	ANP	PB-O3A-PA-O1A
44	ND	501	GTP	O4'-C4'-C5'-O5'
44	WJ	501	GTP	O4'-C4'-C5'-O5'
46	OC	501	GDP	O4'-C4'-C5'-O5'
46	OO	501	GDP	O4'-C4'-C5'-O5'
46	SC	502	GDP	C3'-C4'-C5'-O5'
46	VO	501	GDP	O4'-C4'-C5'-O5'
46	YG	501	GDP	C3'-C4'-C5'-O5'
44	QH	501	GTP	C4'-C5'-O5'-PA
44	VJ	501	GTP	C4'-C5'-O5'-PA
46	VM	501	GDP	C4'-C5'-O5'-PA
44	NH	501	GTP	O4'-C4'-C5'-O5'
44	XL	501	GTP	O4'-C4'-C5'-O5'
44	YB	501	GTP	O4'-C4'-C5'-O5'
42	1B	2601	ADP	PB-O3A-PA-O2A
42	1D	2601	ADP	PB-O3A-PA-O2A

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Mol	Chain	Res	Type	Atoms
44	NJ	501	GTP	PA-O3A-PB-O2B
44	NL	501	GTP	PA-O3A-PB-O2B
44	NN	501	GTP	PA-O3A-PB-O1B
44	OP	501	GTP	PA-O3A-PB-O2B
44	PL	501	GTP	PA-O3A-PB-O2B
44	QH	501	GTP	PA-O3A-PB-O2B
44	QJ	501	GTP	PA-O3A-PB-O2B
44	RH	501	GTP	PB-O3A-PA-O2A
44	SB	501	GTP	PA-O3A-PB-O2B
44	SD	501	GTP	PA-O3A-PB-O2B
44	SF	501	GTP	PA-O3A-PB-O2B
44	TH	501	GTP	PB-O3A-PA-O2A
44	TL	501	GTP	PA-O3A-PB-O2B
44	UF	501	GTP	PA-O3A-PB-O2B
44	UJ	501	GTP	PA-O3A-PB-O2B
44	VF	501	GTP	PA-O3A-PB-O2B
44	VH	501	GTP	PB-O3A-PA-O2A
44	VN	501	GTP	PA-O3A-PB-O2B
44	WD	501	GTP	PA-O3A-PB-O2B
44	XB	501	GTP	PA-O3A-PB-O2B
44	XJ	501	GTP	PA-O3A-PB-O2B
44	XN	501	GTP	PA-O3A-PB-O2B
44	YB	501	GTP	PA-O3A-PB-O1B
44	YD	501	GTP	PA-O3A-PB-O2B
44	YN	501	GTP	PA-O3A-PB-O2B
44	ZB	501	GTP	PA-O3A-PB-O2B
44	ZJ	501	GTP	PA-O3A-PB-O2B
44	ZN	501	GTP	PA-O3A-PB-O2B
44	OF	501	GTP	C4'-C5'-O5'-PA
44	PF	501	GTP	C4'-C5'-O5'-PA
44	PN	501	GTP	C4'-C5'-O5'-PA
44	RF	501	GTP	C4'-C5'-O5'-PA
44	SP	501	GTP	C4'-C5'-O5'-PA
44	UB	501	GTP	C4'-C5'-O5'-PA
44	UJ	501	GTP	C4'-C5'-O5'-PA
44	UP	501	GTP	C4'-C5'-O5'-PA
46	QE	501	GDP	C3'-C4'-C5'-O5'
44	NF	501	GTP	C4'-C5'-O5'-PA
44	RJ	501	GTP	C4'-C5'-O5'-PA
44	TB	501	GTP	C4'-C5'-O5'-PA
44	VB	501	GTP	C4'-C5'-O5'-PA
44	VH	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
46	PK	501	GDP	PA-O3A-PB-O1B
43	1A	2602	ANP	PB-O3A-PA-O2A
46	NE	501	GDP	C3'-C4'-C5'-O5'
44	NB	501	GTP	PA-O3A-PB-O2B
44	ND	501	GTP	PA-O3A-PB-O2B
44	PF	501	GTP	PG-O3B-PB-O1B
44	PH	501	GTP	PA-O3A-PB-O2B
44	PN	501	GTP	PA-O3A-PB-O2B
44	PP	501	GTP	PA-O3A-PB-O2B
44	QH	501	GTP	PG-O3B-PB-O1B
44	QP	501	GTP	PA-O3A-PB-O2B
44	RJ	501	GTP	PG-O3B-PB-O1B
44	RJ	501	GTP	PA-O3A-PB-O2B
44	SL	501	GTP	PG-O3B-PB-O1B
44	TB	501	GTP	PG-O3B-PB-O1B
44	VF	501	GTP	PA-O3A-PB-O1B
44	WB	501	GTP	PA-O3A-PB-O2B
44	WD	501	GTP	PA-O3A-PB-O1B
44	YN	501	GTP	C4'-C5'-O5'-PA
44	ZL	501	GTP	PA-O3A-PB-O2B
46	OI	501	GDP	O4'-C4'-C5'-O5'
46	OK	501	GDP	O4'-C4'-C5'-O5'
46	ZO	501	GDP	C3'-C4'-C5'-O5'
46	SE	501	GDP	C3'-C4'-C5'-O5'
46	SK	501	GDP	C3'-C4'-C5'-O5'
46	TI	501	GDP	O4'-C4'-C5'-O5'
46	UK	501	GDP	C3'-C4'-C5'-O5'
44	SH	501	GTP	PB-O3B-PG-O1G
44	VP	501	GTP	C4'-C5'-O5'-PA
44	RL	501	GTP	C3'-C4'-C5'-O5'
44	UL	501	GTP	O4'-C4'-C5'-O5'
46	NC	501	GDP	O4'-C4'-C5'-O5'
46	VG	501	GDP	C3'-C4'-C5'-O5'
44	SH	501	GTP	PB-O3B-PG-O2G
46	NI	501	GDP	PA-O3A-PB-O2B
46	PK	501	GDP	PA-O3A-PB-O2B
46	PK	501	GDP	PA-O3A-PB-O3B
46	VM	501	GDP	PA-O3A-PB-O3B
46	XI	501	GDP	PA-O3A-PB-O2B
43	1B	2602	ANP	PB-O3A-PA-O2A
43	1A	2602	ANP	C5'-O5'-PA-O3A
43	1B	2602	ANP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
44	NB	501	GTP	C5'-O5'-PA-O3A
44	OH	501	GTP	C5'-O5'-PA-O3A
44	OP	501	GTP	C5'-O5'-PA-O3A
44	PF	501	GTP	C5'-O5'-PA-O3A
44	PH	501	GTP	C5'-O5'-PA-O3A
44	QD	501	GTP	C5'-O5'-PA-O3A
44	QN	501	GTP	C5'-O5'-PA-O3A
44	RH	501	GTP	C5'-O5'-PA-O3A
44	RN	501	GTP	C5'-O5'-PA-O3A
44	RP	501	GTP	C5'-O5'-PA-O3A
44	SH	501	GTP	C5'-O5'-PA-O3A
44	TJ	501	GTP	C5'-O5'-PA-O3A
44	TP	501	GTP	C5'-O5'-PA-O3A
44	VJ	501	GTP	C5'-O5'-PA-O3A
44	WH	501	GTP	C5'-O5'-PA-O3A
44	WL	501	GTP	C5'-O5'-PA-O3A
44	XH	501	GTP	C5'-O5'-PA-O3A
44	XL	501	GTP	C5'-O5'-PA-O3A
44	YH	501	GTP	C5'-O5'-PA-O3A
44	YL	501	GTP	C5'-O5'-PA-O3A
44	ZH	501	GTP	C5'-O5'-PA-O3A
46	NG	502	GDP	C5'-O5'-PA-O3A
46	QE	501	GDP	C5'-O5'-PA-O3A
46	QI	501	GDP	C5'-O5'-PA-O3A
46	RE	501	GDP	C5'-O5'-PA-O3A
46	RM	501	GDP	C5'-O5'-PA-O3A
46	SE	501	GDP	C5'-O5'-PA-O3A
46	TK	501	GDP	C5'-O5'-PA-O3A
46	VG	501	GDP	C5'-O5'-PA-O3A
46	XG	501	GDP	C5'-O5'-PA-O3A
46	YI	501	GDP	C5'-O5'-PA-O3A
46	YO	501	GDP	C5'-O5'-PA-O3A
46	ZM	501	GDP	C5'-O5'-PA-O3A
46	ZO	501	GDP	C5'-O5'-PA-O3A
44	PL	501	GTP	C4'-C5'-O5'-PA
44	PH	501	GTP	C3'-C4'-C5'-O5'
44	WH	501	GTP	C3'-C4'-C5'-O5'
46	NG	502	GDP	O4'-C4'-C5'-O5'
46	QM	501	GDP	O4'-C4'-C5'-O5'
46	TC	501	GDP	C3'-C4'-C5'-O5'
46	UC	501	GDP	C3'-C4'-C5'-O5'
42	1A	2601	ADP	PB-O3A-PA-O1A

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Mol	Chain	Res	Type	Atoms
42	1B	2601	ADP	PB-O3A-PA-O1A
42	1C	2601	ADP	PB-O3A-PA-O1A
44	NB	501	GTP	PA-O3A-PB-O1B
44	NJ	501	GTP	PA-O3A-PB-O1B
44	NN	501	GTP	PA-O3A-PB-O2B
44	OD	501	GTP	PA-O3A-PB-O2B
44	PD	501	GTP	PA-O3A-PB-O1B
44	PH	501	GTP	PA-O3A-PB-O1B
44	PN	501	GTP	PA-O3A-PB-O1B
44	PP	501	GTP	PG-O3B-PB-O2B
44	PP	501	GTP	PA-O3A-PB-O1B
44	QH	501	GTP	PG-O3B-PB-O2B
44	QH	501	GTP	PA-O3A-PB-O1B
44	QN	501	GTP	PG-O3B-PB-O2B
44	QN	501	GTP	PB-O3A-PA-O2A
44	RH	501	GTP	PB-O3A-PA-O1A
44	RJ	501	GTP	PA-O3A-PB-O1B
44	SD	501	GTP	PA-O3A-PB-O1B
44	SN	501	GTP	PA-O3A-PB-O1B
44	SN	501	GTP	PA-O3A-PB-O2B
44	TB	501	GTP	PA-O3A-PB-O1B
44	TD	501	GTP	PA-O3A-PB-O1B
44	TL	501	GTP	PG-O3B-PB-O2B
44	TN	501	GTP	PA-O3A-PB-O1B
44	UF	501	GTP	PA-O3A-PB-O1B
44	UJ	501	GTP	PA-O3A-PB-O1B
44	UP	501	GTP	PG-O3B-PB-O2B
44	UP	501	GTP	PA-O3A-PB-O1B
44	VB	501	GTP	PA-O3A-PB-O1B
44	VH	501	GTP	PB-O3A-PA-O1A
44	VP	501	GTP	PG-O3B-PB-O2B
44	WB	501	GTP	PA-O3A-PB-O1B
44	WH	501	GTP	PA-O3A-PB-O2B
44	WN	501	GTP	PA-O3A-PB-O2B
44	XH	501	GTP	PA-O3A-PB-O1B
44	XH	501	GTP	PA-O3A-PB-O2B
44	XN	501	GTP	PA-O3A-PB-O1B
44	YB	501	GTP	PA-O3A-PB-O2B
44	YF	501	GTP	PG-O3B-PB-O2B
44	YF	501	GTP	PA-O3A-PB-O2B
44	ZB	501	GTP	PG-O3B-PB-O1B
44	ZB	501	GTP	PA-O3A-PB-O1B

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Mol	Chain	Res	Type	Atoms
44	ZD	501	GTP	PA-O3A-PB-O1B
44	ZF	501	GTP	PA-O3A-PB-O2B
44	ZN	501	GTP	PG-O3B-PB-O2B
44	ZP	501	GTP	PG-O3B-PB-O1B
44	ZP	501	GTP	PA-O3A-PB-O1B
43	1D	2602	ANP	C4'-C5'-O5'-PA
44	NH	501	GTP	C4'-C5'-O5'-PA
44	XF	501	GTP	C4'-C5'-O5'-PA
44	ZB	501	GTP	C4'-C5'-O5'-PA
44	NJ	501	GTP	C5'-O5'-PA-O1A
44	NN	501	GTP	C5'-O5'-PA-O1A
44	PD	501	GTP	C5'-O5'-PA-O1A
44	RD	501	GTP	C5'-O5'-PA-O1A
44	SB	501	GTP	C5'-O5'-PA-O1A
44	SP	501	GTP	C5'-O5'-PA-O2A
44	TL	501	GTP	C5'-O5'-PA-O1A
44	VF	501	GTP	C5'-O5'-PA-O1A
44	XB	501	GTP	C5'-O5'-PA-O1A
44	ZF	501	GTP	C5'-O5'-PA-O1A
44	ZP	501	GTP	C5'-O5'-PA-O1A
46	NM	501	GDP	C5'-O5'-PA-O1A
46	NO	501	GDP	C5'-O5'-PA-O1A
46	PO	501	GDP	C5'-O5'-PA-O1A
46	RK	501	GDP	C5'-O5'-PA-O1A
46	TE	501	GDP	C5'-O5'-PA-O1A
46	XE	501	GDP	C5'-O5'-PA-O1A
46	ZE	501	GDP	C5'-O5'-PA-O1A
46	ZK	501	GDP	C5'-O5'-PA-O1A
46	OQ	501	GDP	C3'-C4'-C5'-O5'
46	QO	501	GDP	C3'-C4'-C5'-O5'
46	XA	501	GDP	C3'-C4'-C5'-O5'
46	XK	501	GDP	C3'-C4'-C5'-O5'
43	C3	2001	ANP	PG-N3B-PB-O3A
46	NK	501	GDP	C3'-C4'-C5'-O5'
46	QQ	501	GDP	C3'-C4'-C5'-O5'

There are no ring outliers.

112 monomers are involved in 178 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
44	OH	501	GTP	1	0
44	YL	501	GTP	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
44	VB	501	GTP	1	0
44	OF	501	GTP	1	0
44	PF	501	GTP	2	0
46	TC	501	GDP	2	0
44	XN	501	GTP	2	0
46	TE	501	GDP	2	0
46	PG	501	GDP	1	0
46	XK	501	GDP	1	0
44	UD	501	GTP	2	0
44	WJ	501	GTP	2	0
44	QL	501	GTP	1	0
44	TL	501	GTP	1	0
46	OC	501	GDP	1	0
46	NM	501	GDP	1	0
44	XH	501	GTP	2	0
42	1A	2601	ADP	2	0
46	NI	501	GDP	1	0
44	UB	501	GTP	2	0
46	PC	501	GDP	2	0
44	QP	501	GTP	1	0
46	SO	502	GDP	1	0
44	XD	501	GTP	1	0
44	OP	501	GTP	2	0
44	TH	501	GTP	1	0
44	TB	501	GTP	1	0
44	TJ	501	GTP	1	0
44	PH	501	GTP	1	0
46	QQ	501	GDP	1	0
44	ZF	501	GTP	1	0
46	YO	501	GDP	2	0
44	SD	501	GTP	1	0
44	RJ	501	GTP	1	0
44	PN	501	GTP	4	0
46	UG	501	GDP	1	0
42	1B	2601	ADP	2	0
44	VL	501	GTP	1	0
44	VF	501	GTP	1	0
46	XO	501	GDP	2	0
44	NN	501	GTP	4	0
46	TK	501	GDP	1	0
44	YH	501	GTP	1	0
46	XM	502	GDP	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
44	NB	501	GTP	2	0
46	PI	502	GDP	1	0
46	TG	502	GDP	1	0
43	1B	2602	ANP	4	0
42	1D	2601	ADP	1	0
44	SF	501	GTP	1	0
46	ZI	501	GDP	2	0
46	TO	501	GDP	2	0
46	VE	501	GDP	1	0
46	YG	501	GDP	1	0
44	QH	501	GTP	1	0
42	1C	2601	ADP	1	0
43	1C	2602	ANP	3	0
44	QD	501	GTP	1	0
44	UF	501	GTP	1	0
44	ZD	501	GTP	1	0
43	1D	2602	ANP	5	0
46	TM	502	GDP	3	0
44	VN	501	GTP	2	0
46	UI	501	GDP	1	0
44	VP	501	GTP	1	0
43	C0	2001	ANP	4	0
46	OE	501	GDP	4	0
46	ZE	501	GDP	1	0
44	PJ	501	GTP	3	0
44	WL	501	GTP	1	0
44	RF	501	GTP	1	0
46	OM	501	GDP	1	0
46	QE	501	GDP	1	0
43	1A	2602	ANP	3	0
46	VM	501	GDP	2	0
46	YC	501	GDP	2	0
44	ON	501	GTP	1	0
46	NO	501	GDP	1	0
46	PK	501	GDP	3	0
44	WD	501	GTP	2	0
44	XB	501	GTP	1	0
46	XI	501	GDP	1	0
44	RL	501	GTP	2	0
46	UE	501	GDP	1	0
44	WN	501	GTP	2	0
46	QO	501	GDP	1	0

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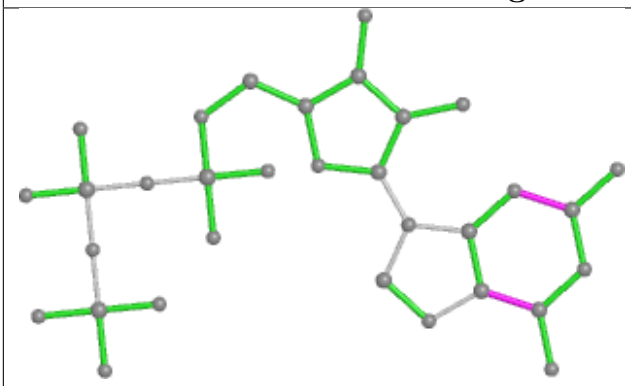
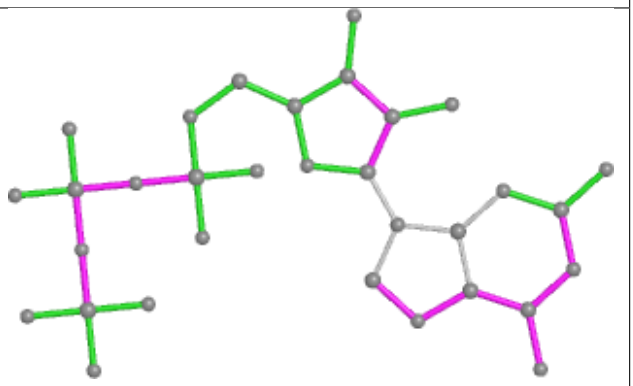
Mol	Chain	Res	Type	Clashes	Symm-Clashes
46	QG	501	GDP	2	0
46	OK	501	GDP	1	0
46	XC	501	GDP	2	0
46	OO	501	GDP	1	0
44	OL	501	GTP	3	0
44	WB	501	GTP	1	0
46	YE	501	GDP	1	0
44	RN	501	GTP	1	0
46	ZM	501	GDP	1	0
44	WH	501	GTP	1	0
43	C2	2001	ANP	4	0
44	ZB	501	GTP	1	0
46	WC	501	GDP	1	0
46	ZG	501	GDP	1	0
44	VD	501	GTP	1	0
43	C1	2001	ANP	2	0
44	RH	501	GTP	1	0
46	NE	501	GDP	1	0
46	WE	501	GDP	2	0
46	XE	501	GDP	1	0
44	UH	501	GTP	2	0
44	UP	501	GTP	2	0
46	WG	502	GDP	1	0
46	UM	501	GDP	2	0
46	SE	501	GDP	1	0
43	C3	2001	ANP	3	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

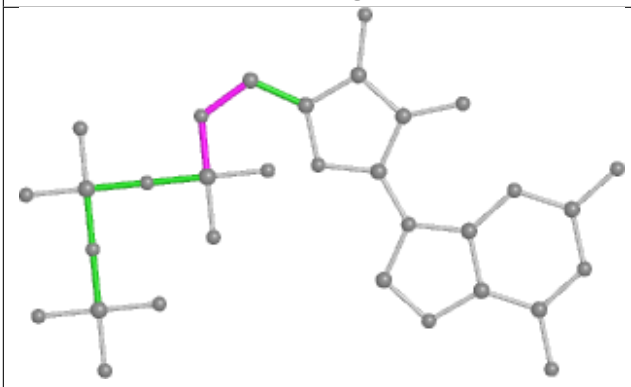
Ligand GTP OH 501



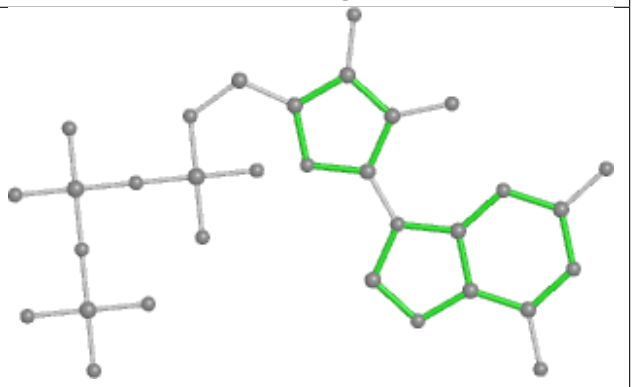
Bond lengths



Bond angles

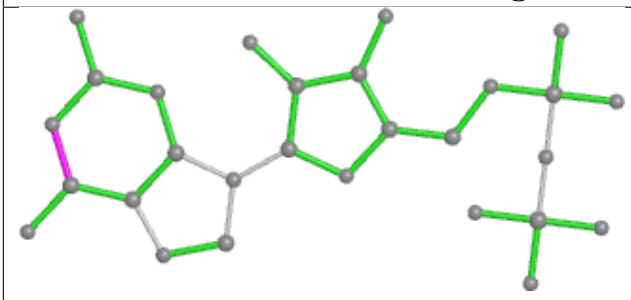


Torsions

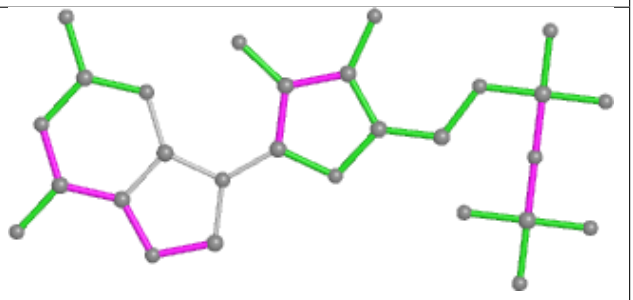


Rings

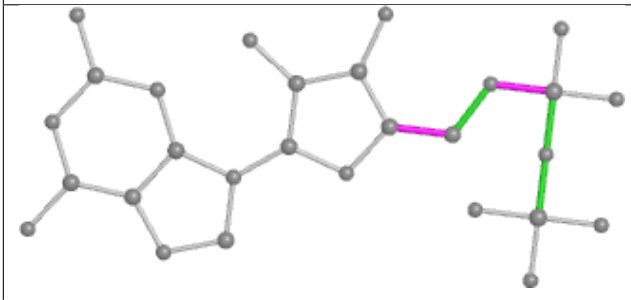
Ligand GDP ZO 501



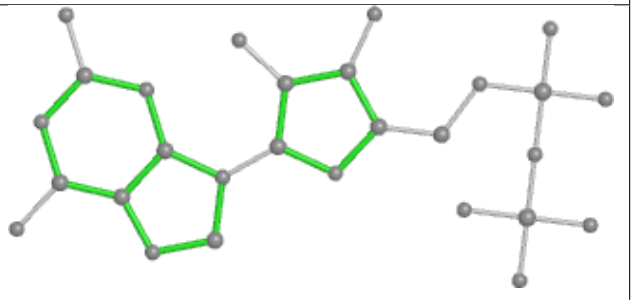
Bond lengths



Bond angles

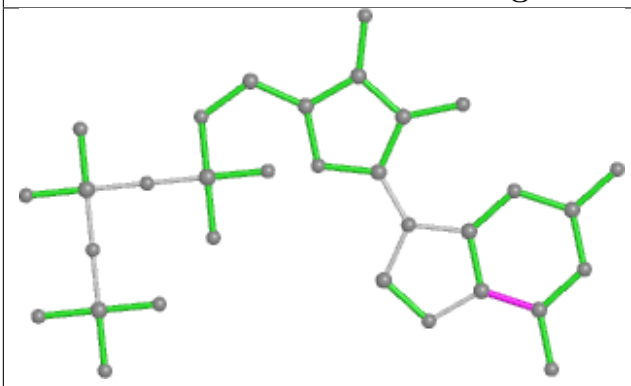


Torsions



Rings

Ligand GTP YL 501



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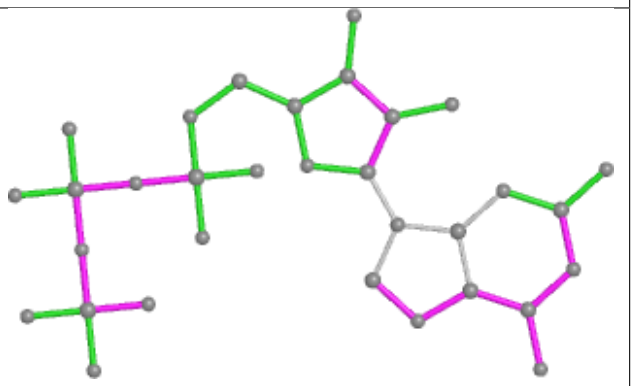

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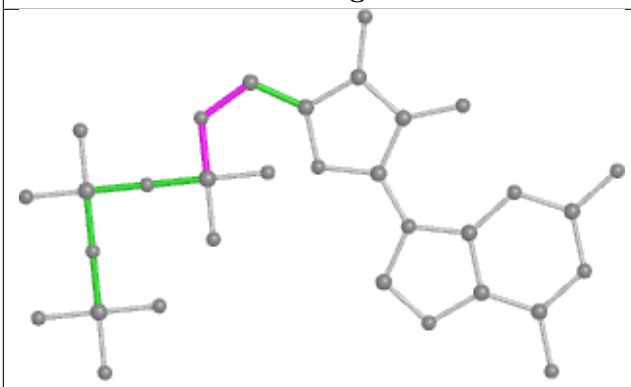
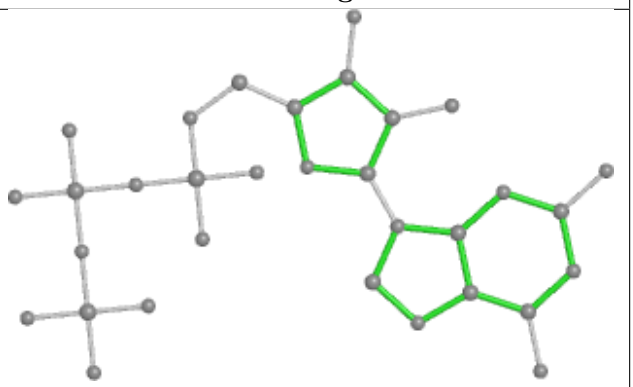
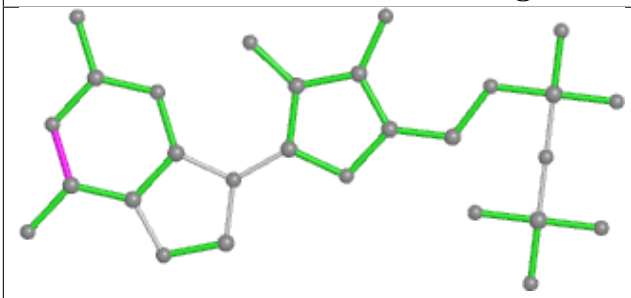


Torsions



Rings

Ligand GDP RI 502



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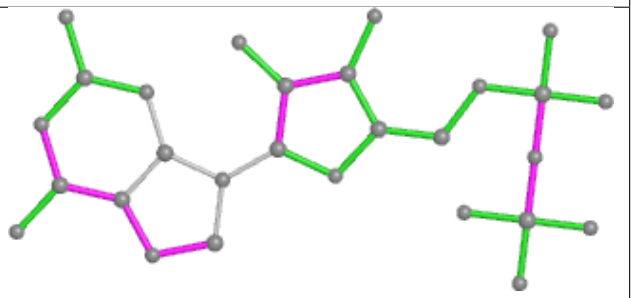
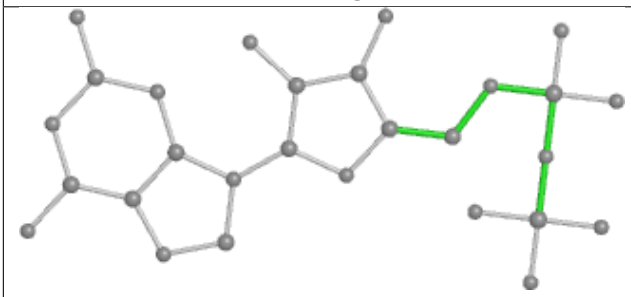


Bond angles



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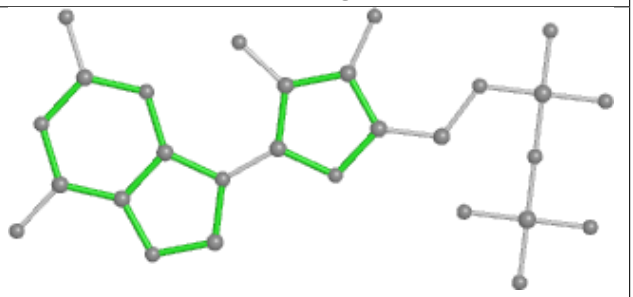
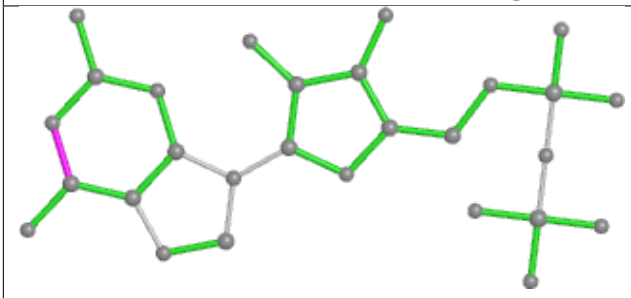


Rings

Ligand GDP UC 501



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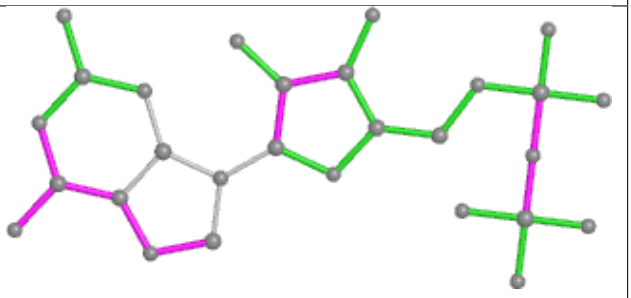

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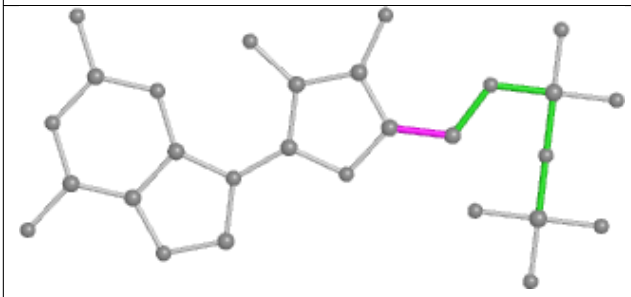

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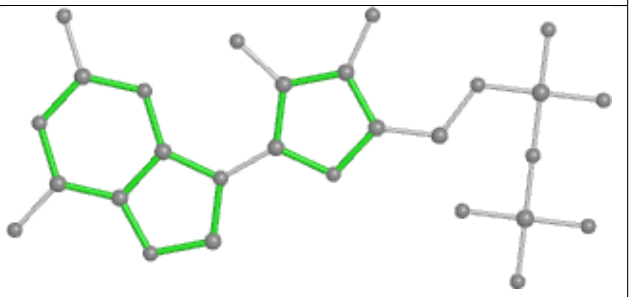

Rings

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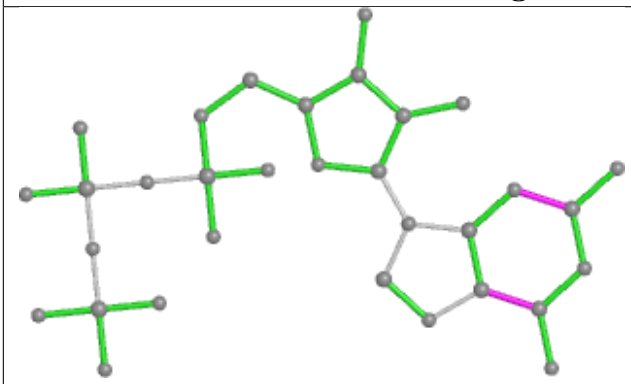

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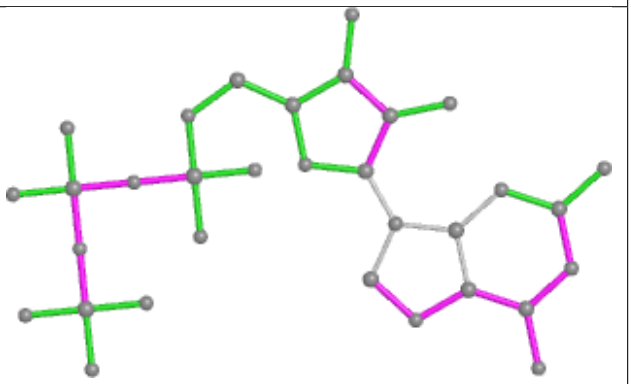

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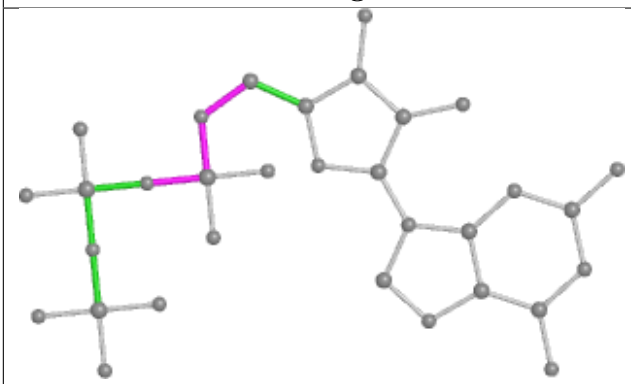

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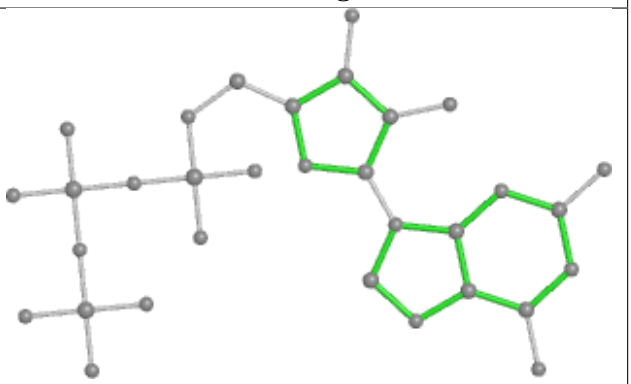

Rings

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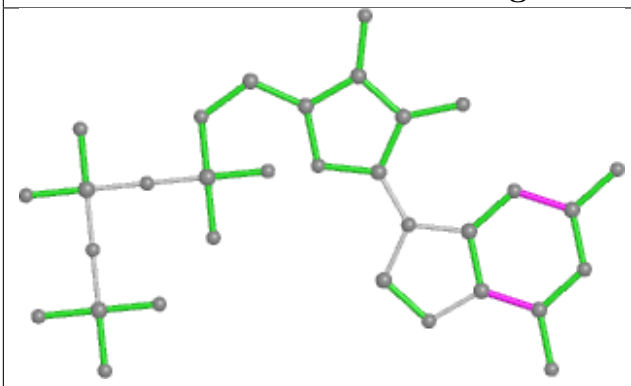

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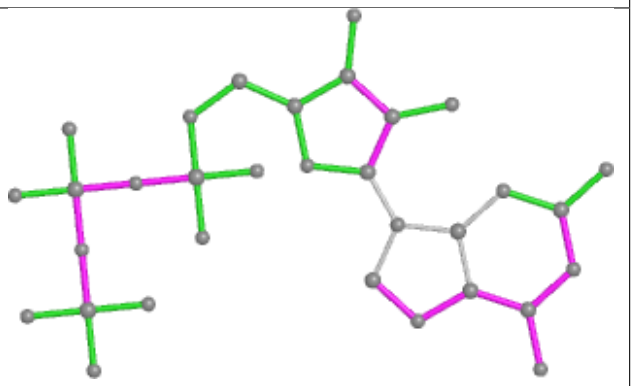

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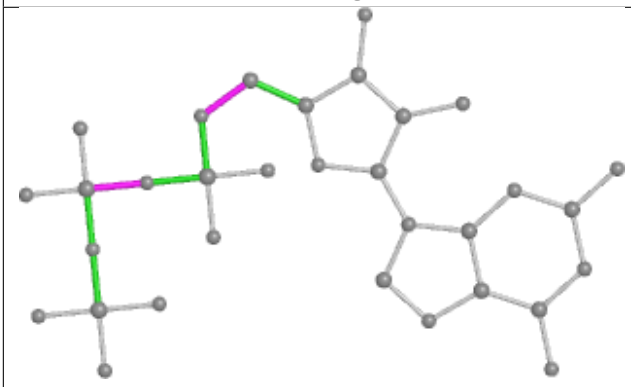

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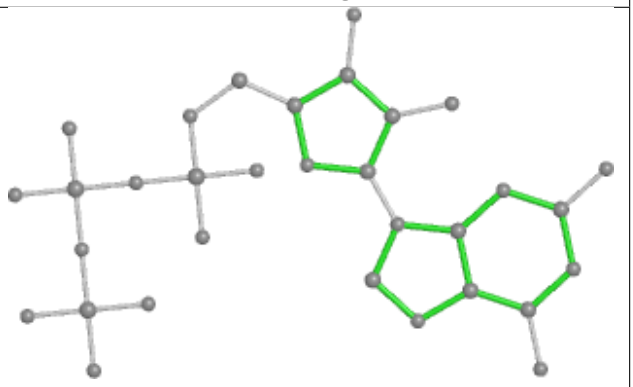
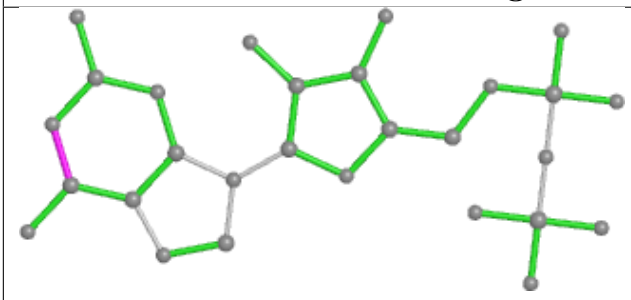


Rings

Ligand GDP RK 501



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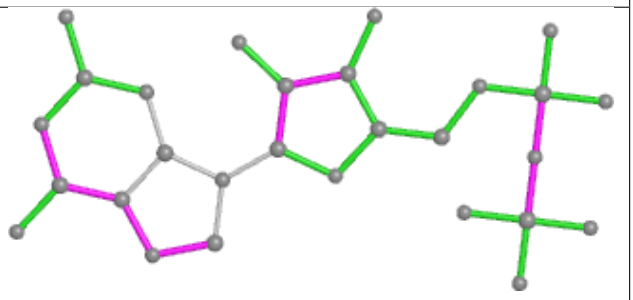

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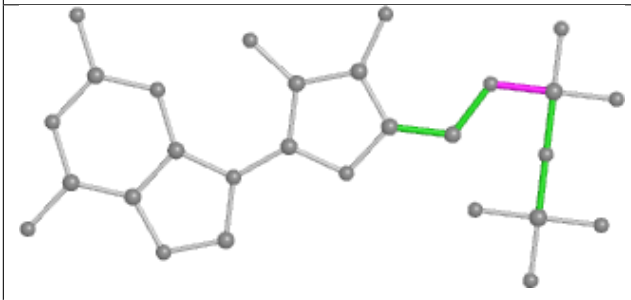

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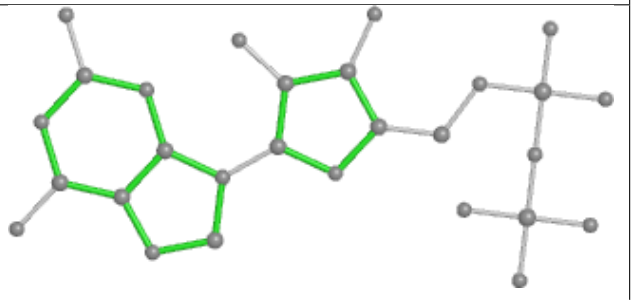
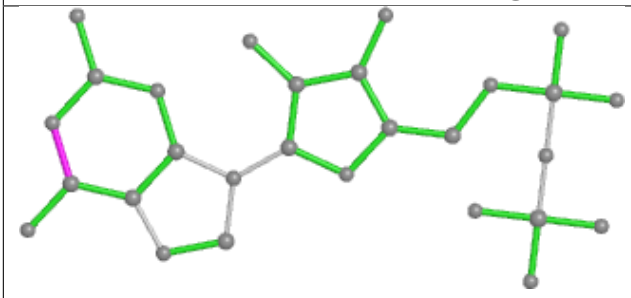


Rings

Ligand GDP QK 501



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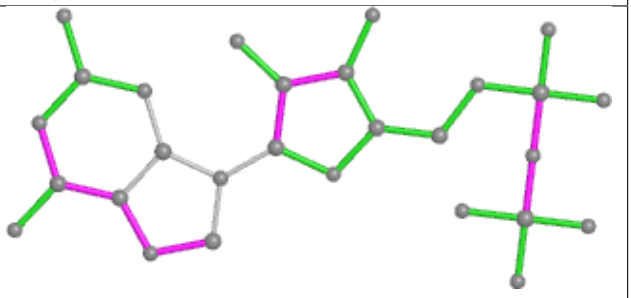

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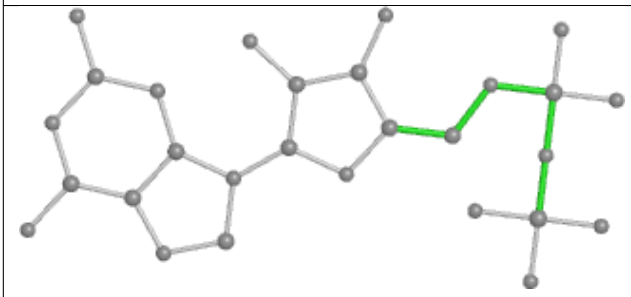

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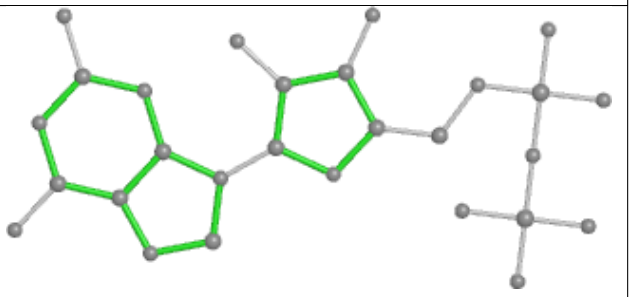
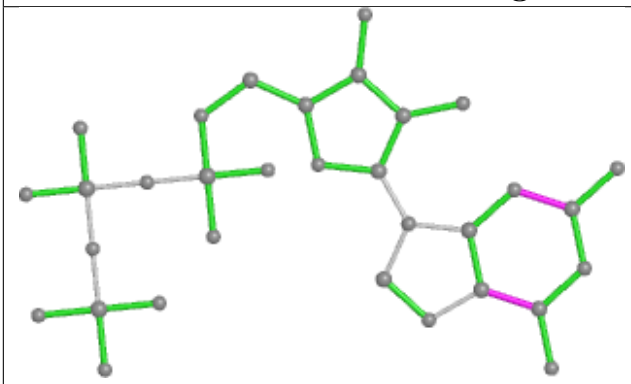


Rings

Ligand GTP OF 501



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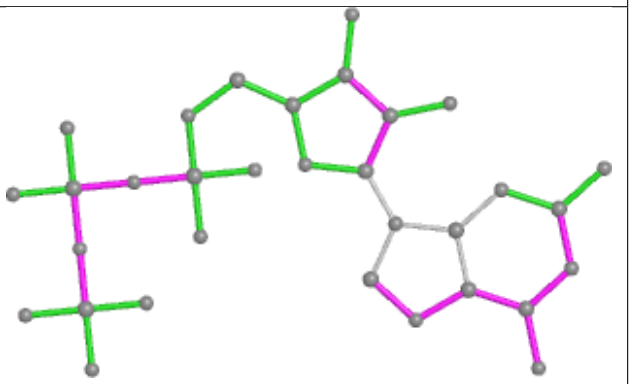

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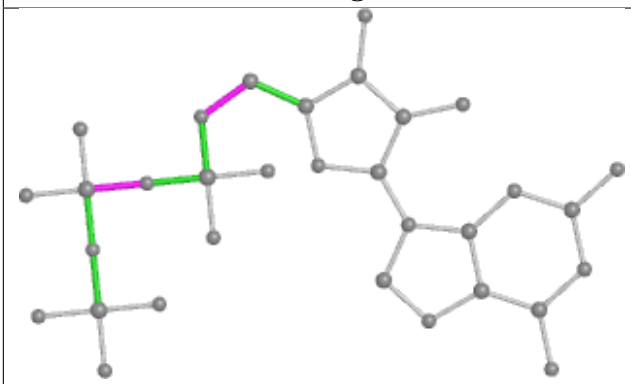

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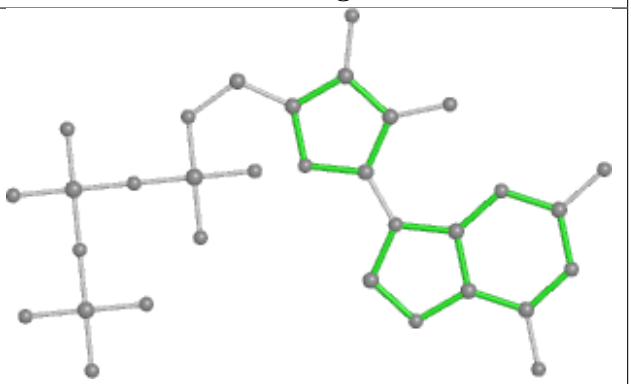

Rings

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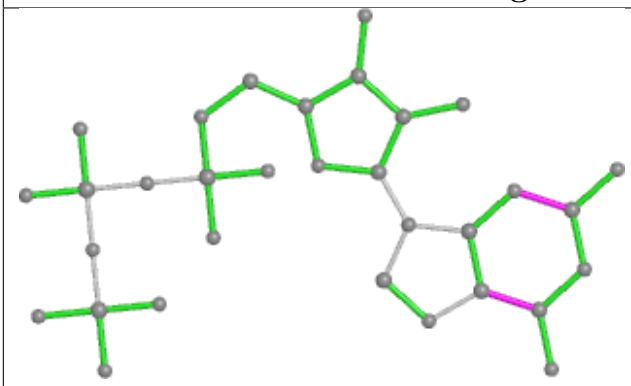

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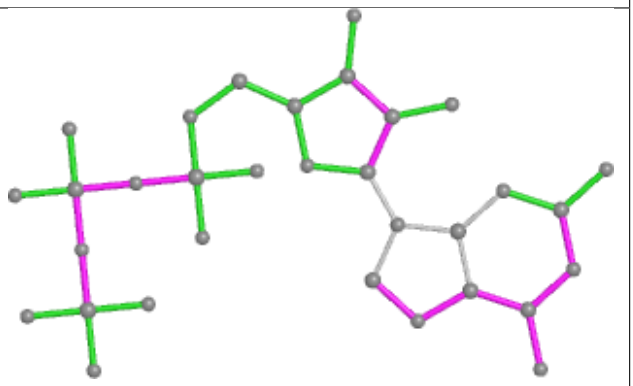
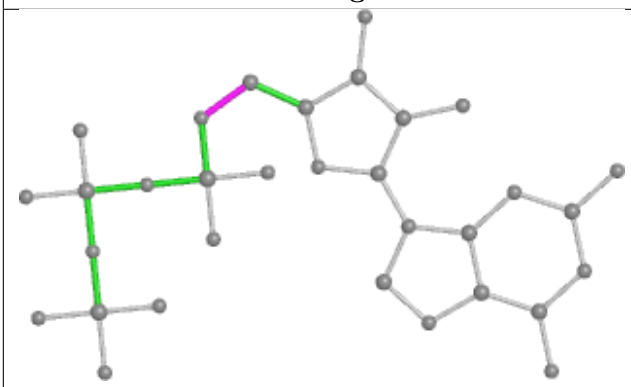


Bond angles



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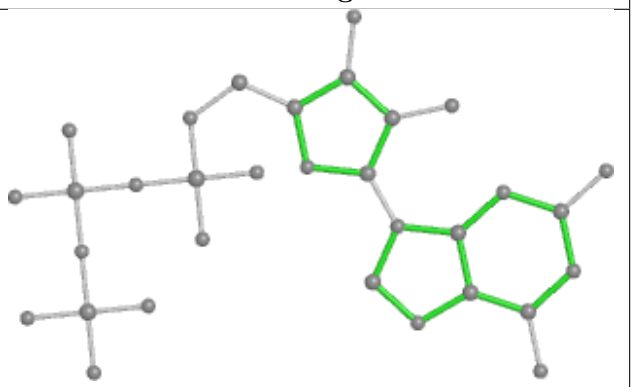
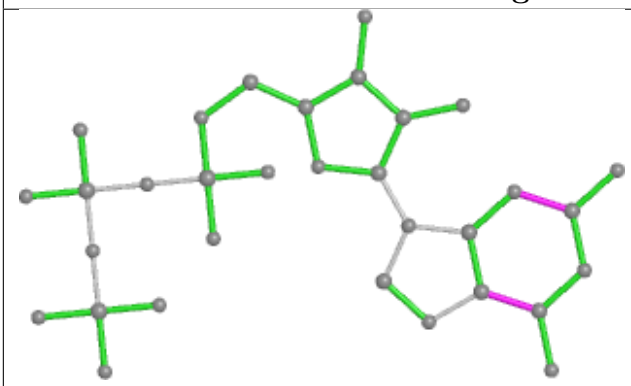
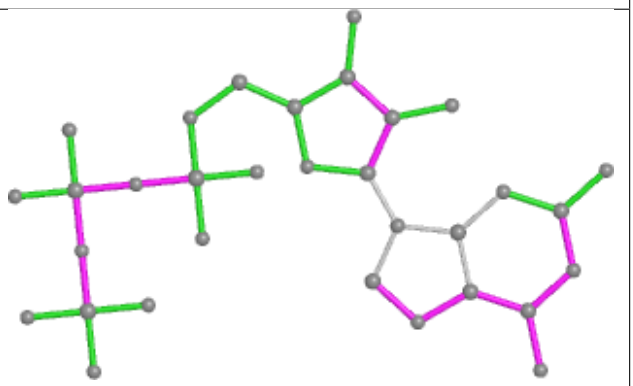


Rings

Ligand GTP PF 501



Bond lengths



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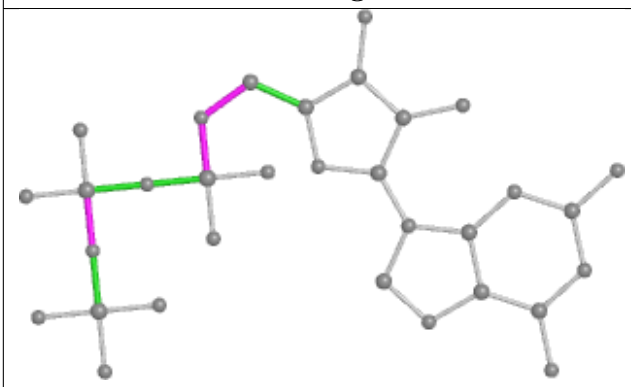
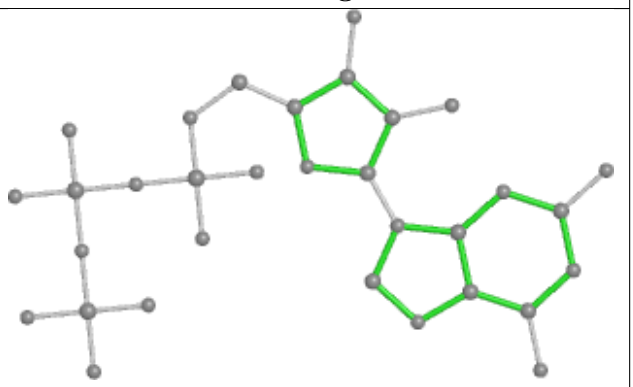
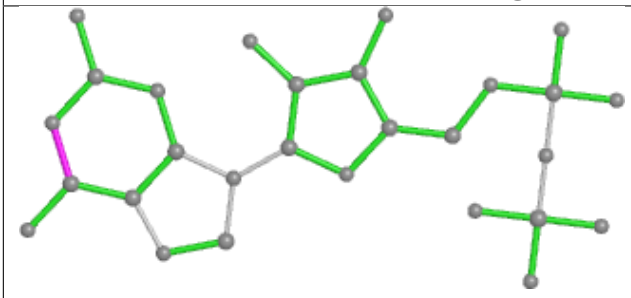
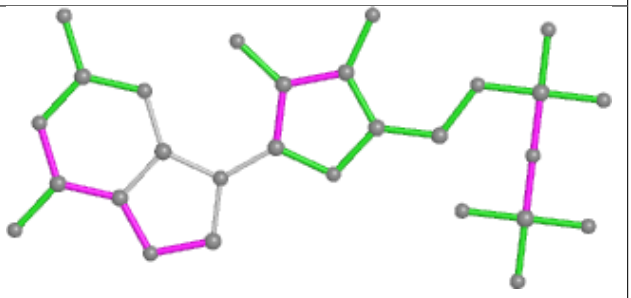
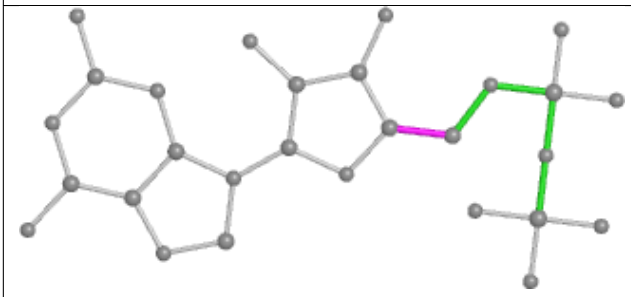
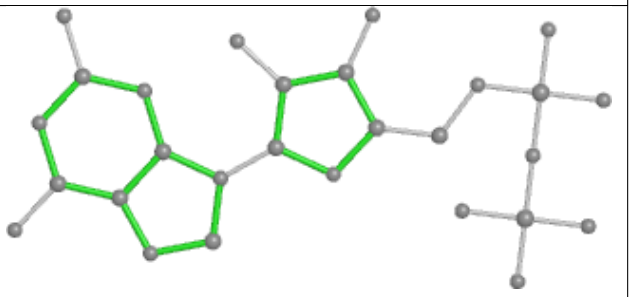
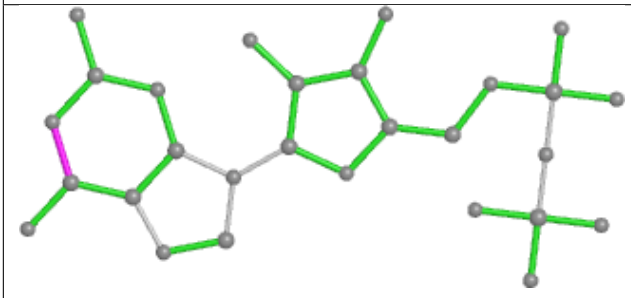
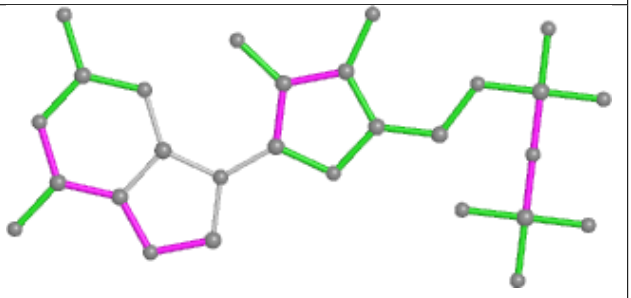
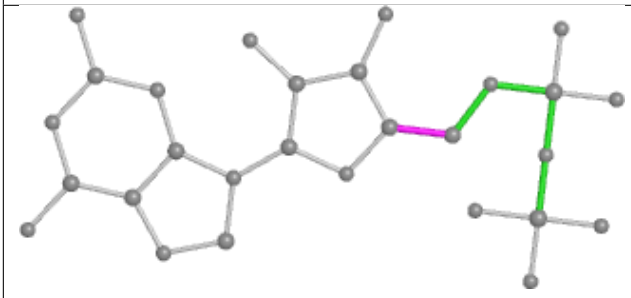
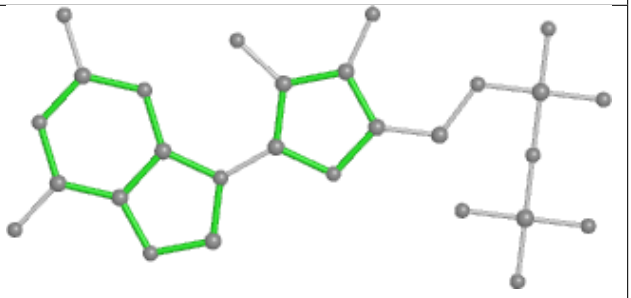


Torsions

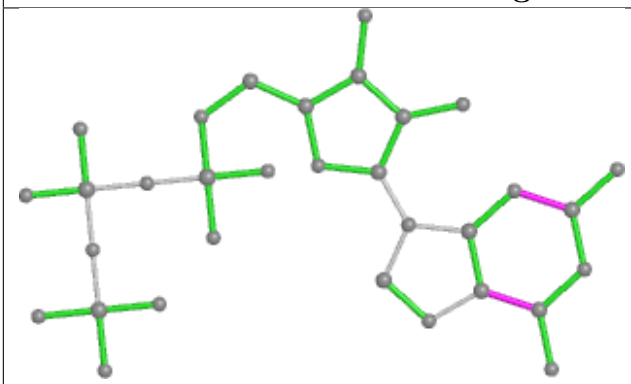


Rings

Ligand GDP TC 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GDP SK 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GTP SB 501



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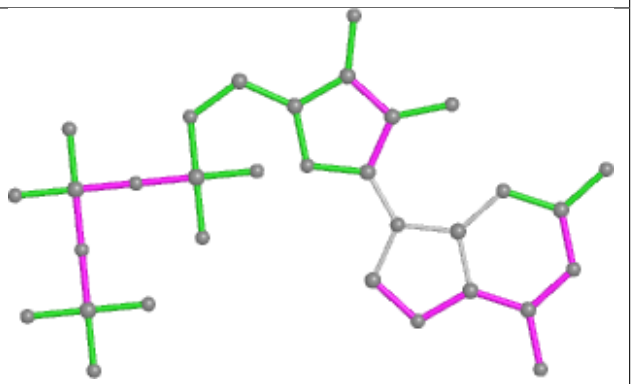

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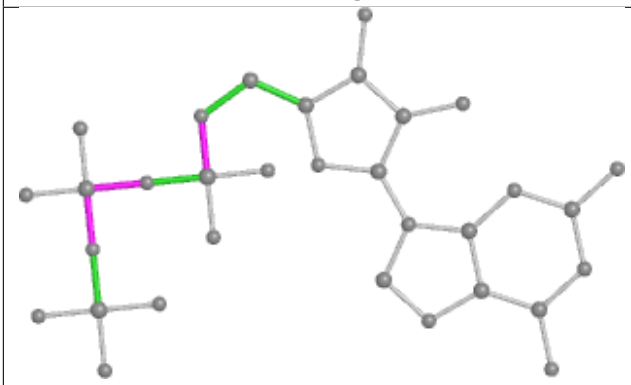

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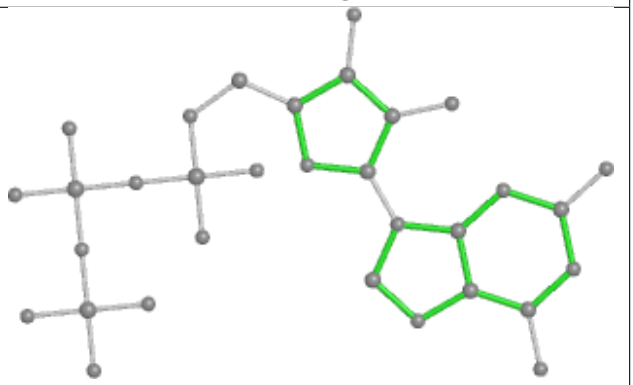
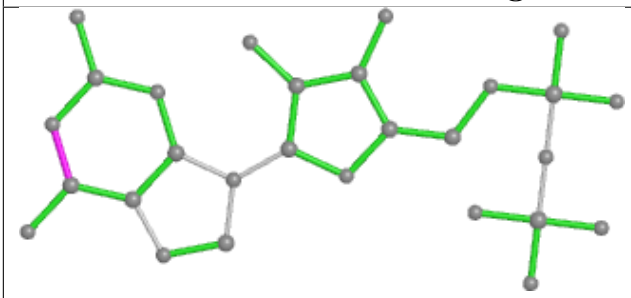


Rings

Ligand GDP UO 501



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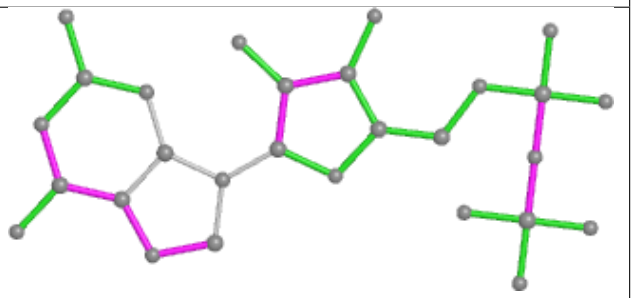

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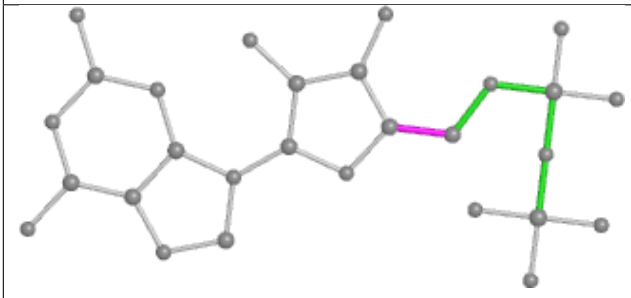

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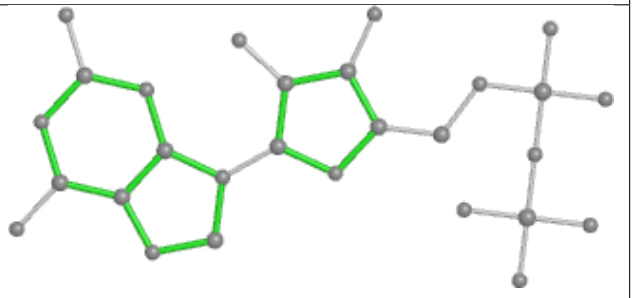
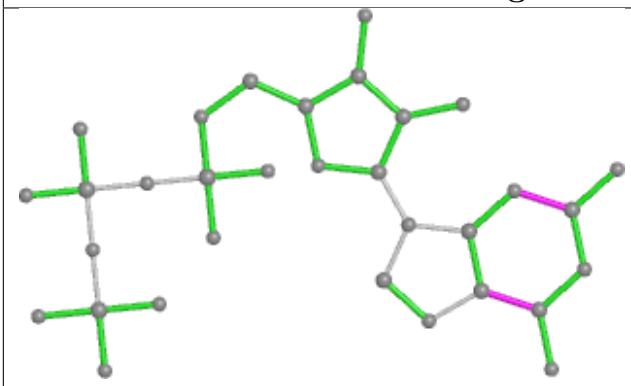


Rings

Ligand GTP XN 501



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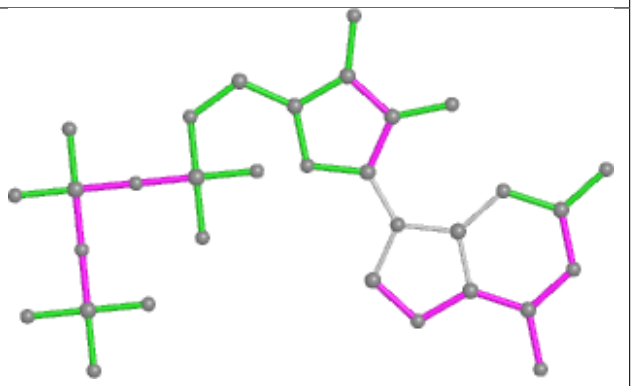

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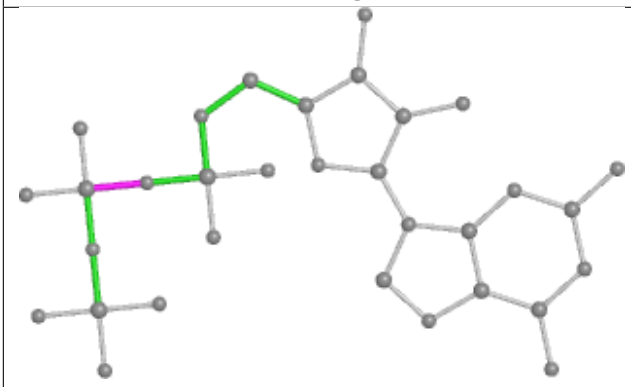

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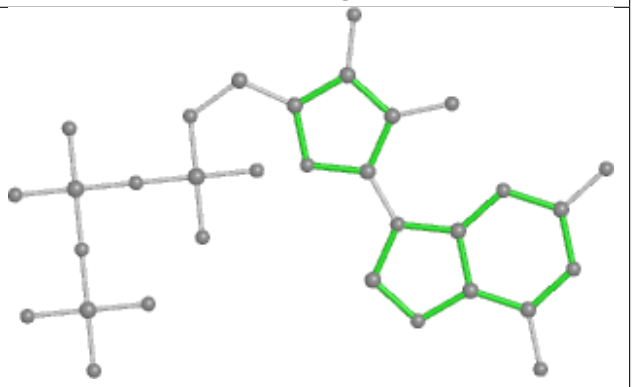

Rings

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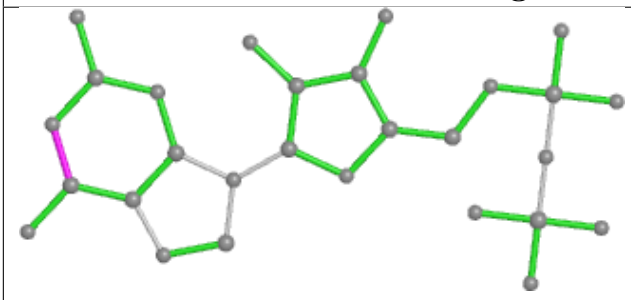

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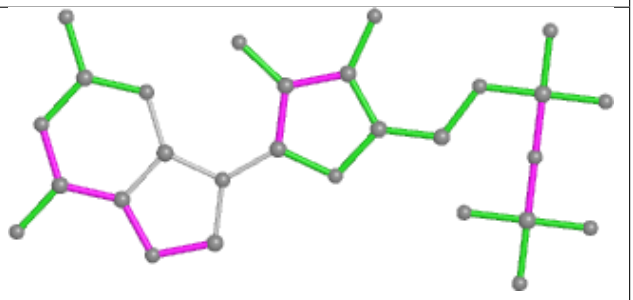

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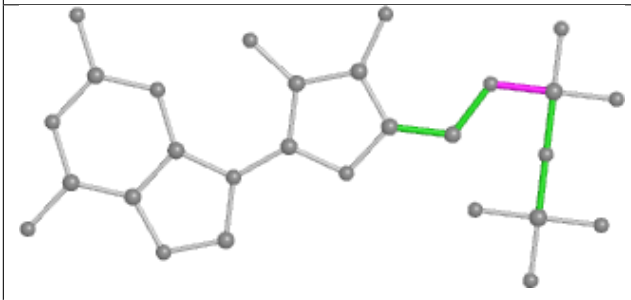

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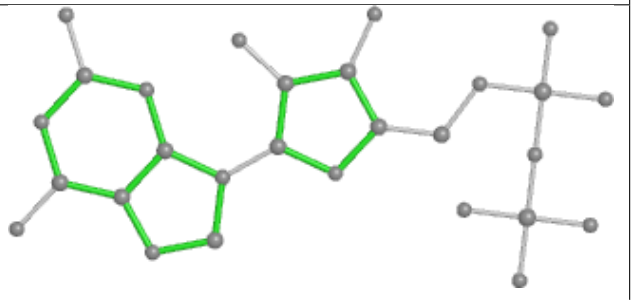

Rings

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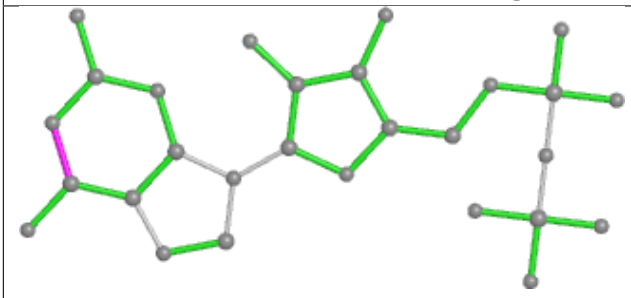

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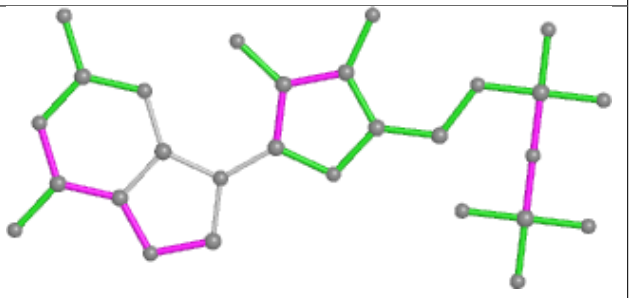

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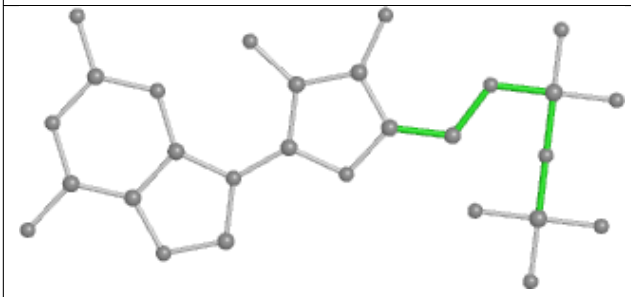

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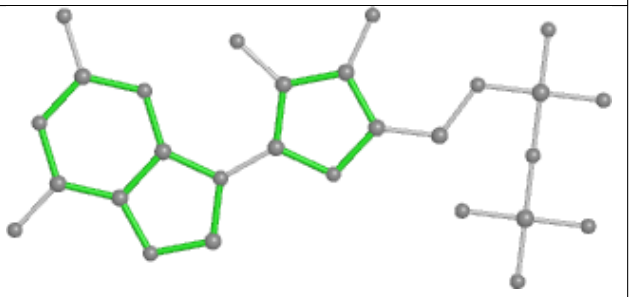
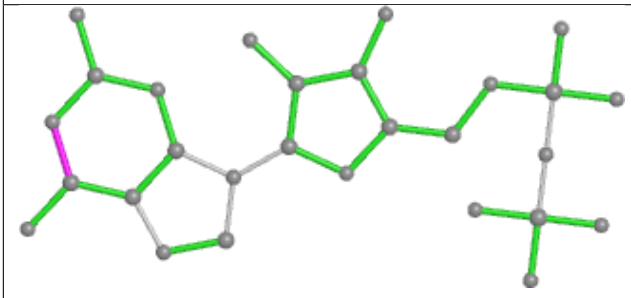


Rings

Ligand GDP XK 501



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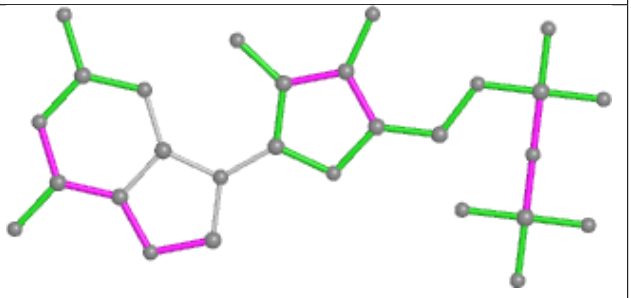

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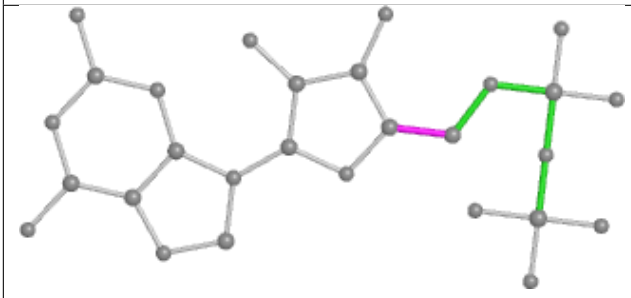

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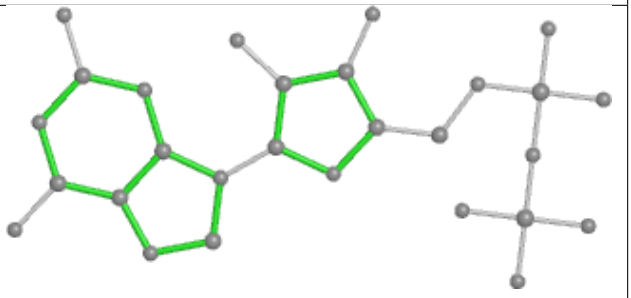

Rings

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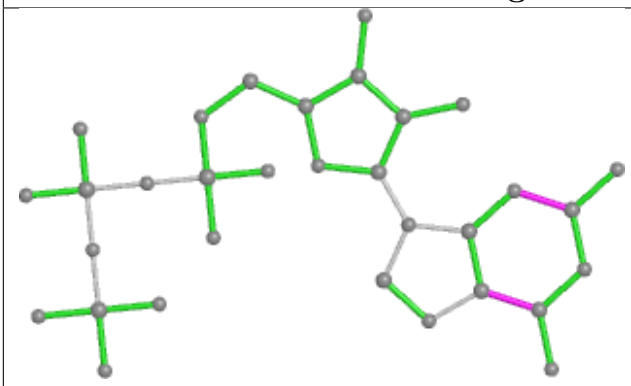

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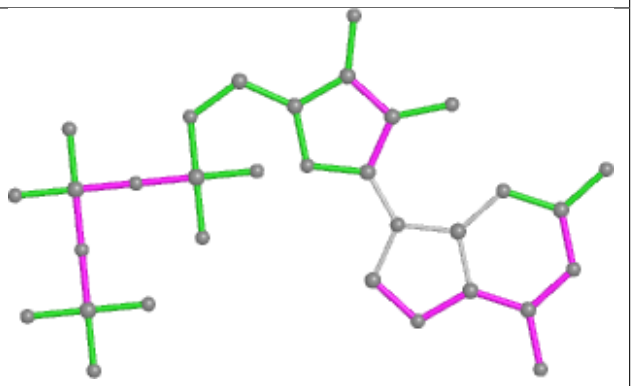

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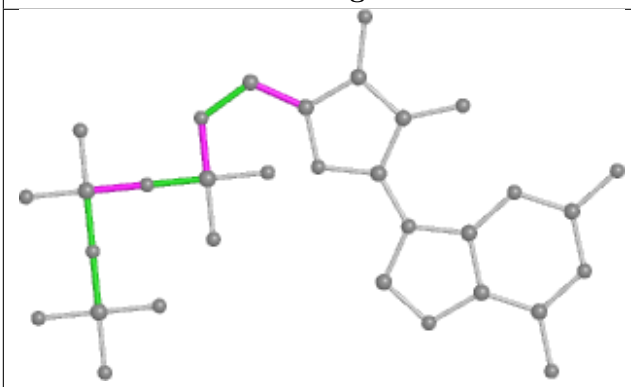

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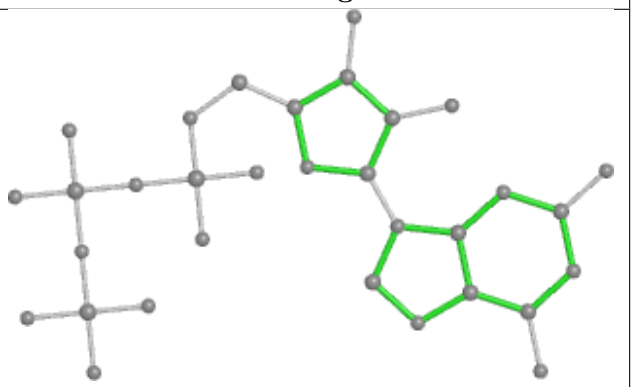
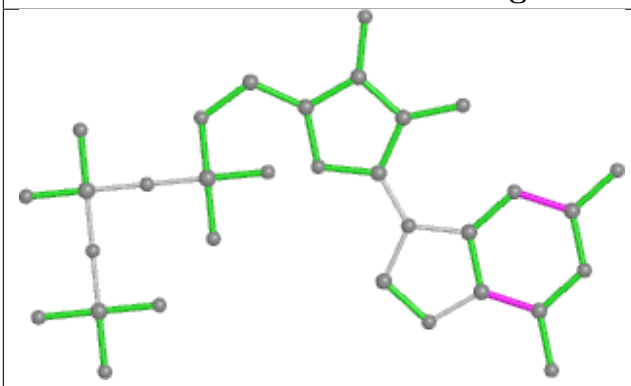


Rings

Ligand GTP TD 501



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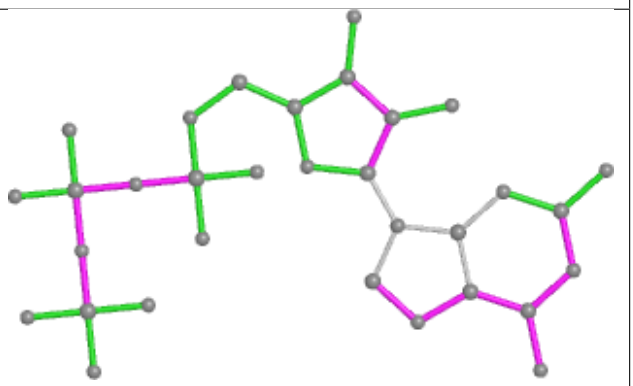

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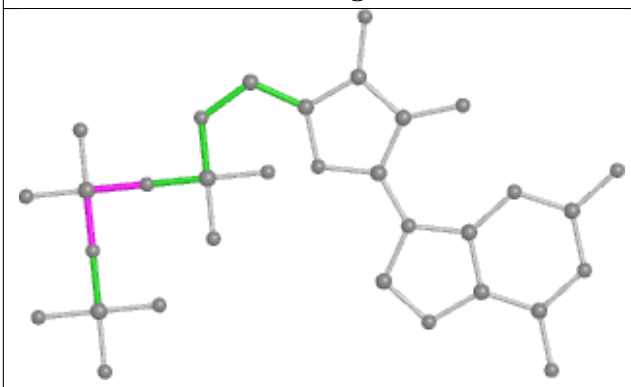

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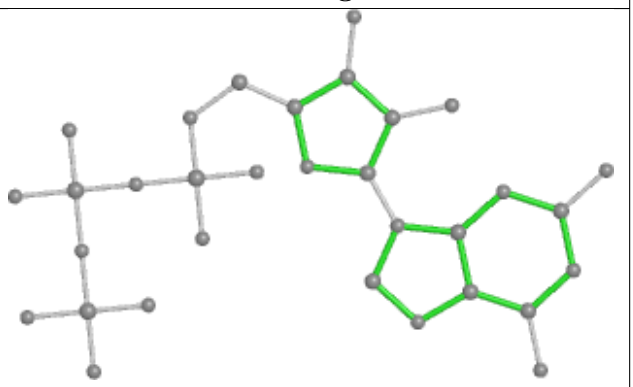
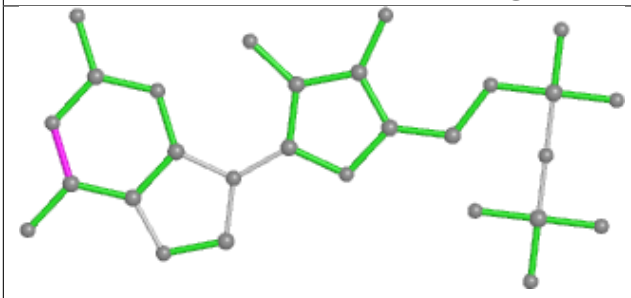


Rings

Ligand GDP VG 501



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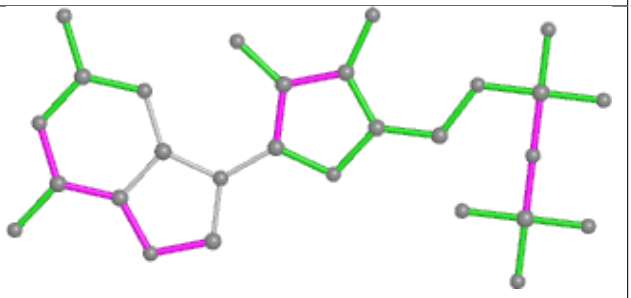

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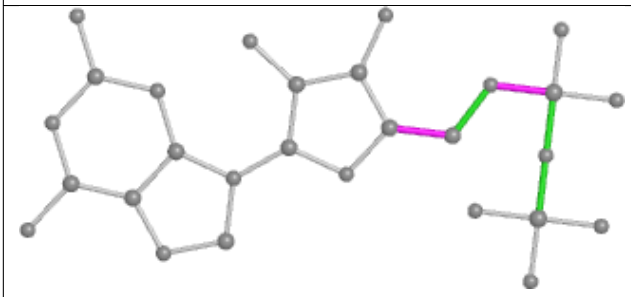

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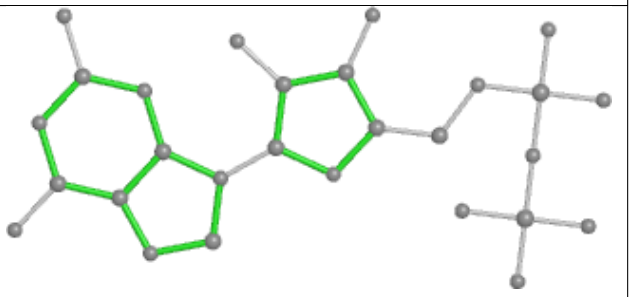
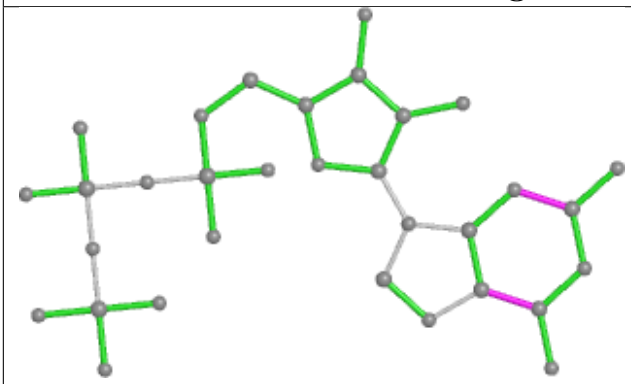


Rings

Ligand GTP UD 501



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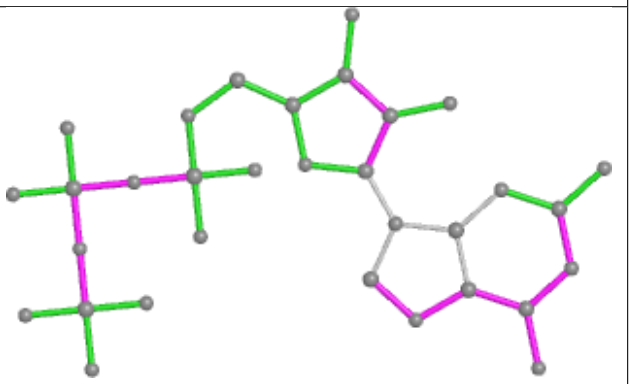

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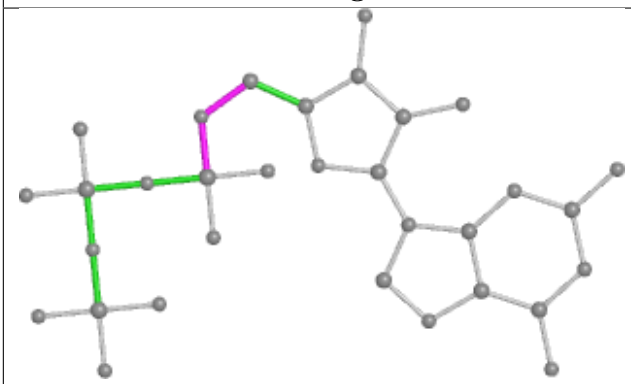

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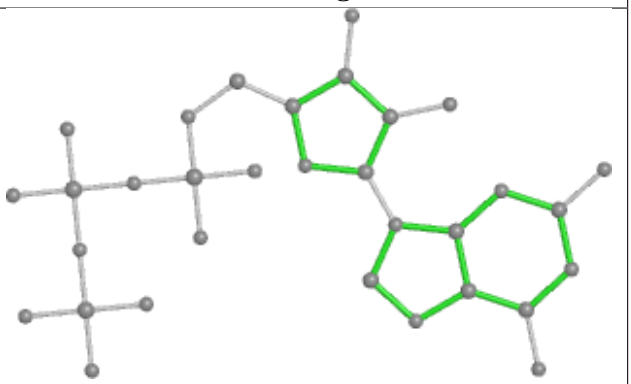
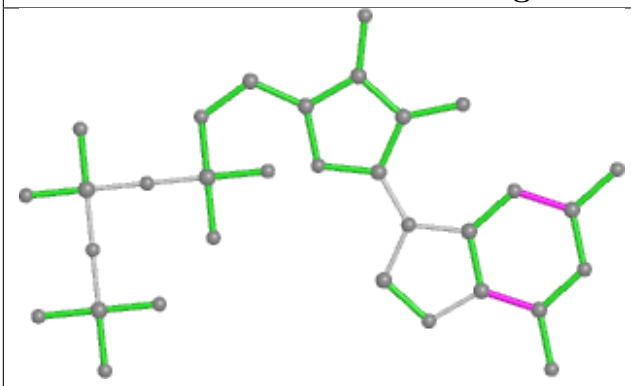


Rings

Ligand GTP XJ 501



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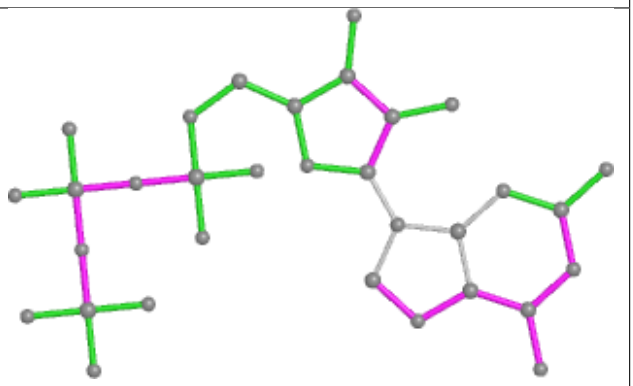
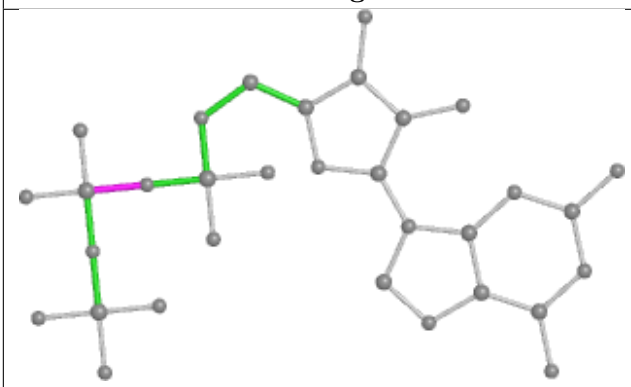


Bond angles



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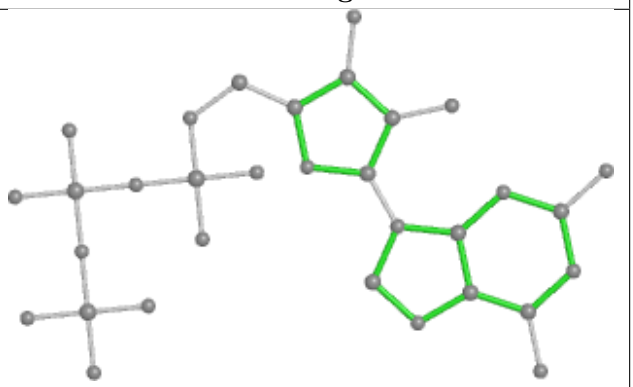
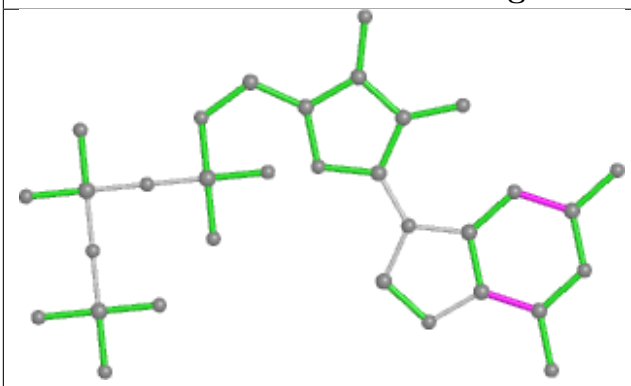


Rings

Ligand GTP WJ 501



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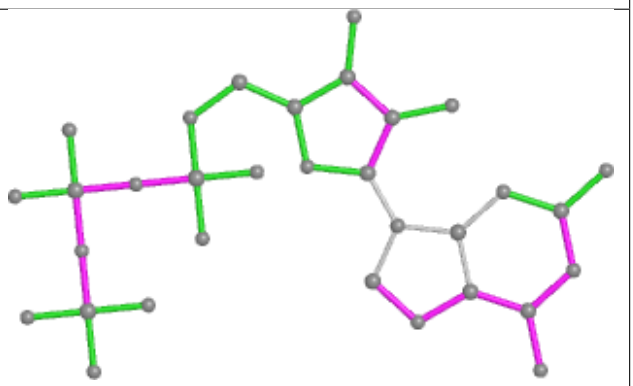

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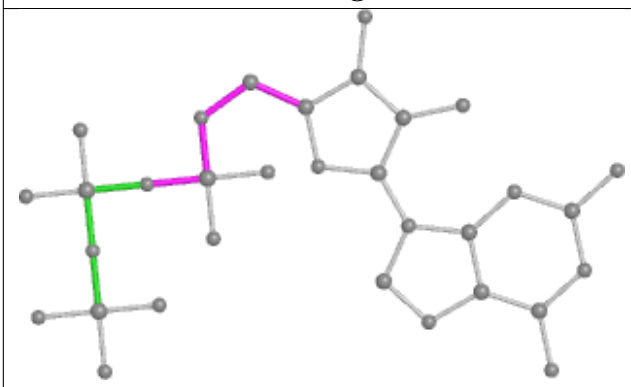
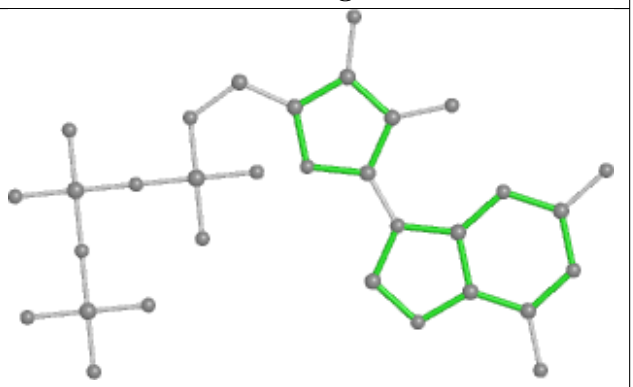
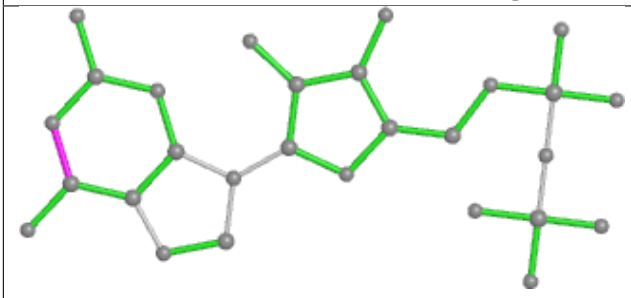


Torsions



Rings

Ligand GDP VK 501



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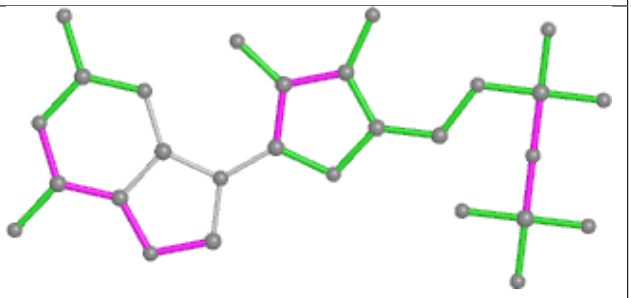

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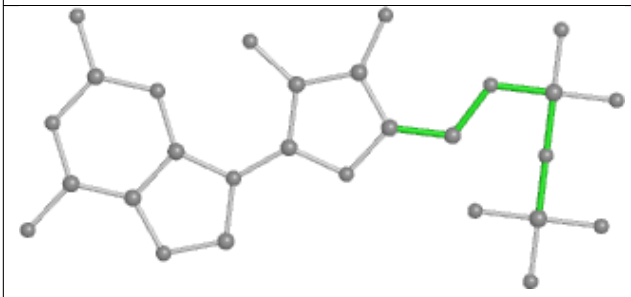

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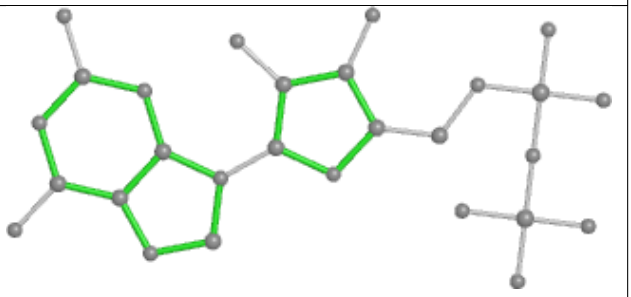
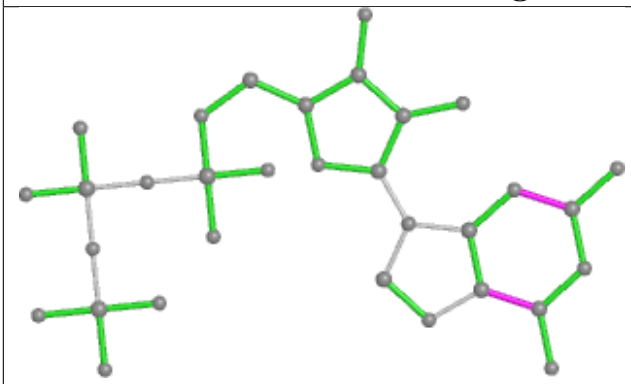


Rings

Ligand GTP QL 501



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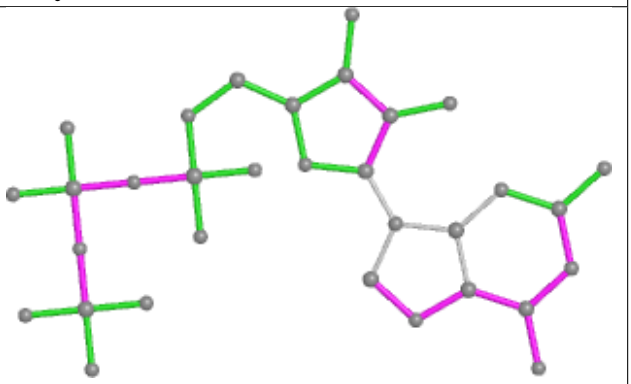

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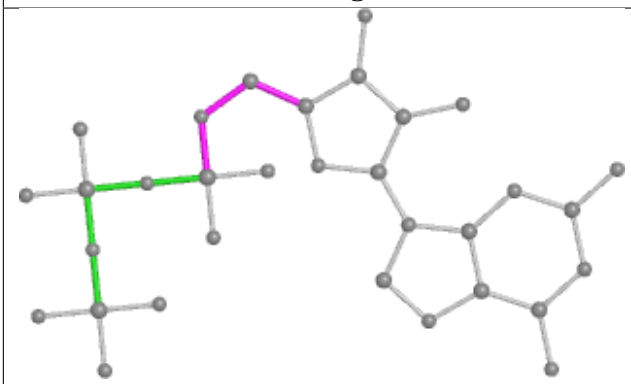

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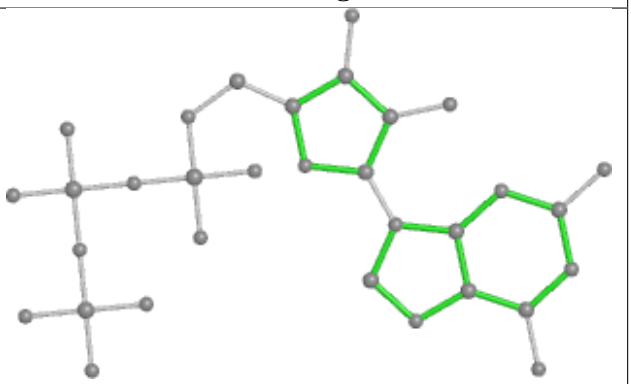

Rings

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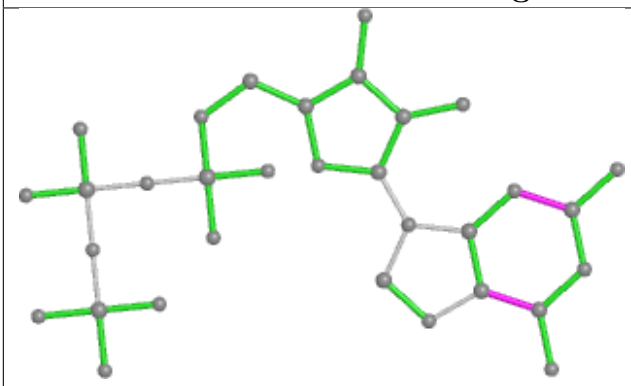

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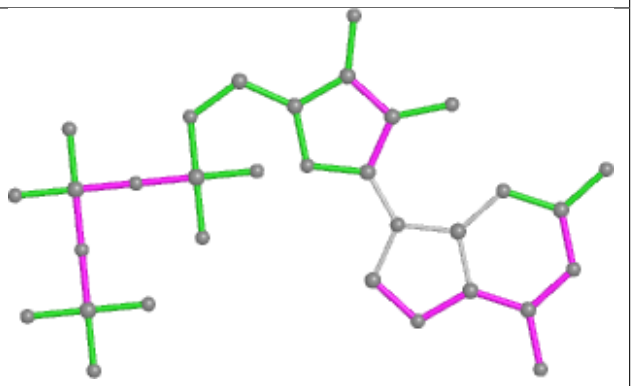

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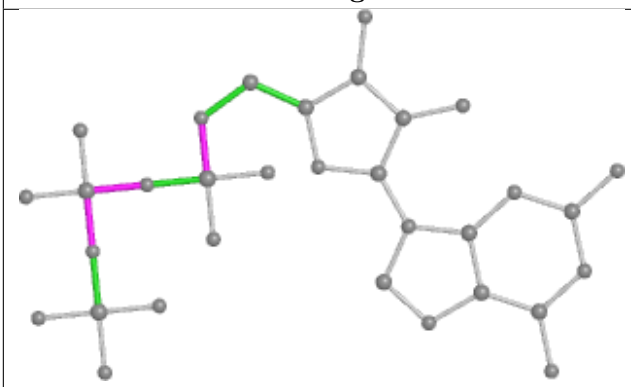

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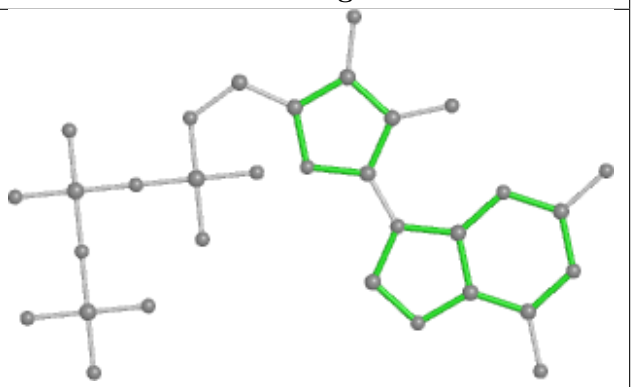

Rings

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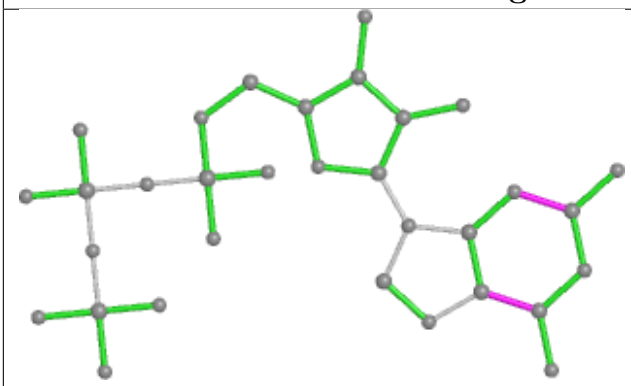

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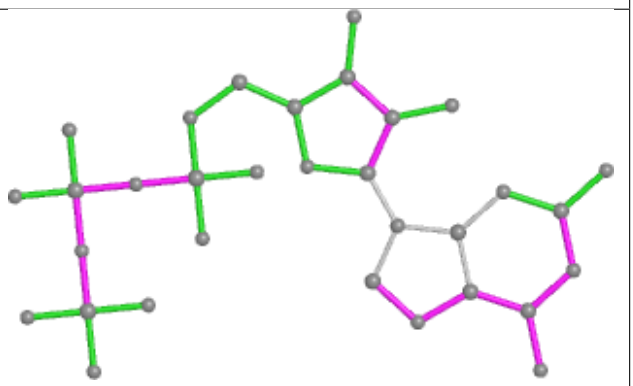

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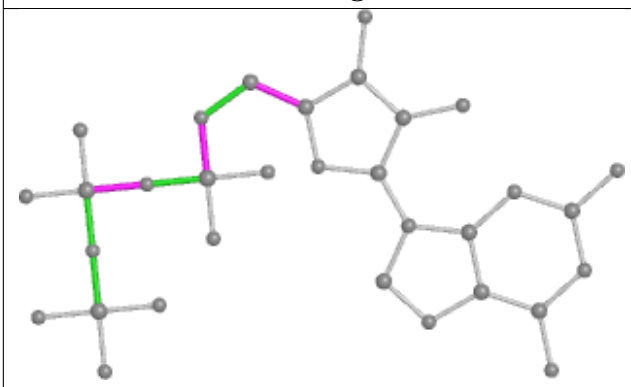

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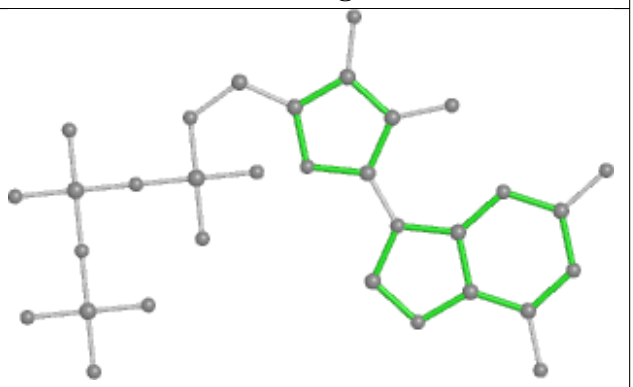

Rings

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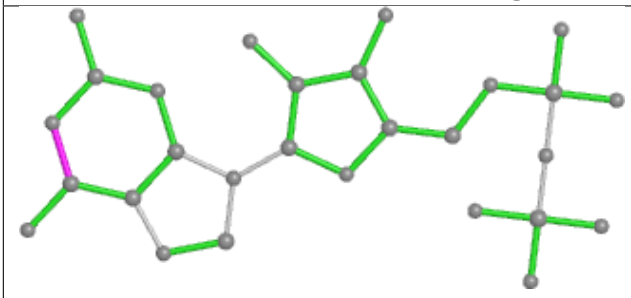

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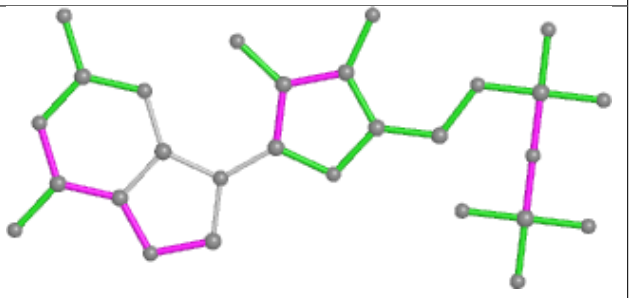

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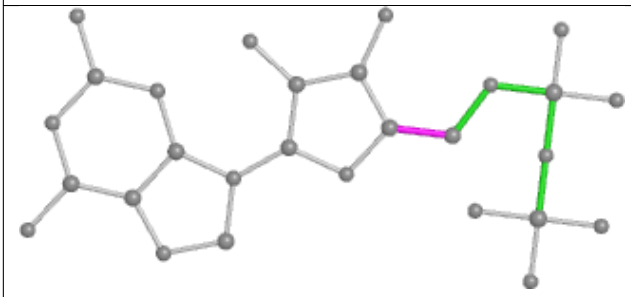

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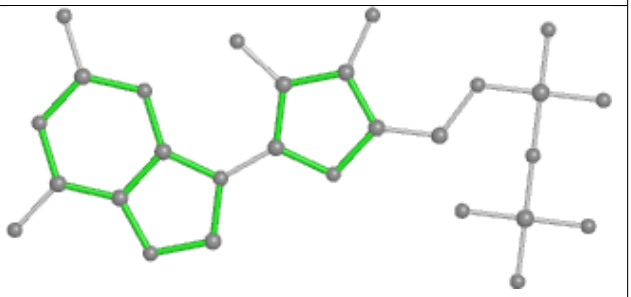

Rings

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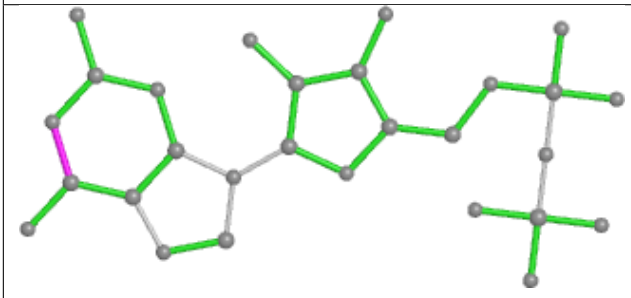

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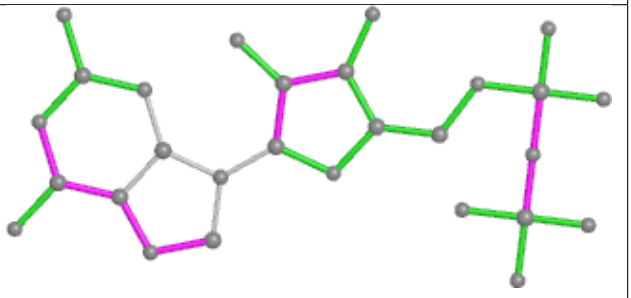

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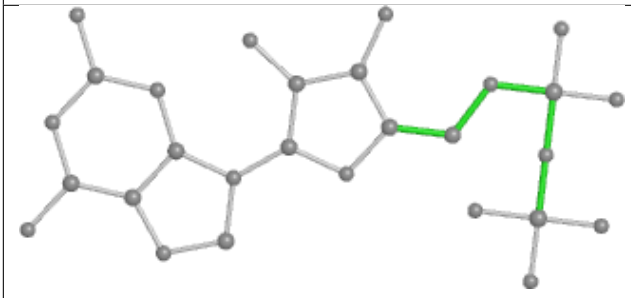

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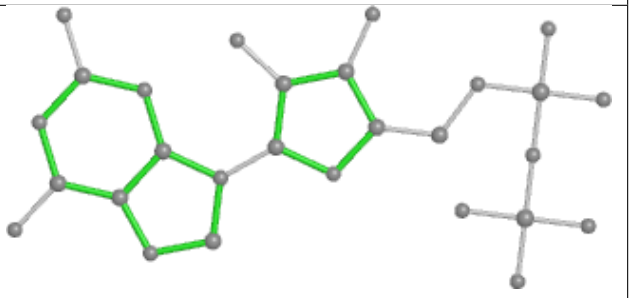

Rings

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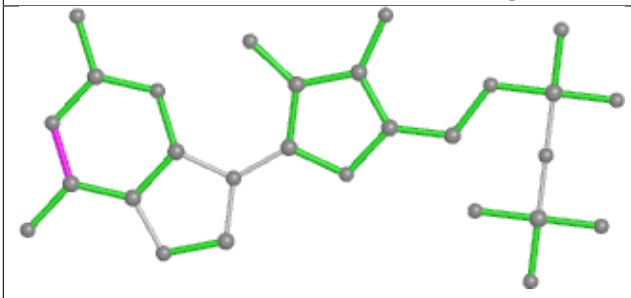

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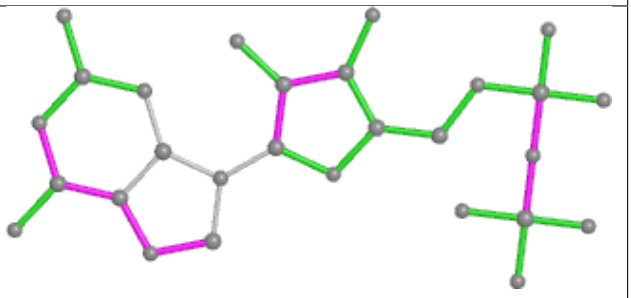

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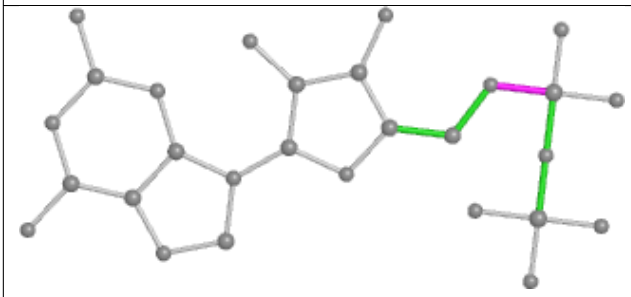

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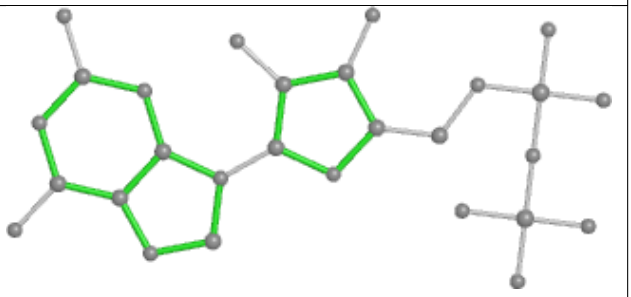
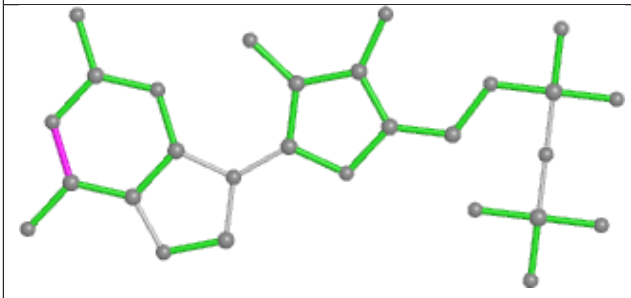


Rings

Ligand GDP ZC 501



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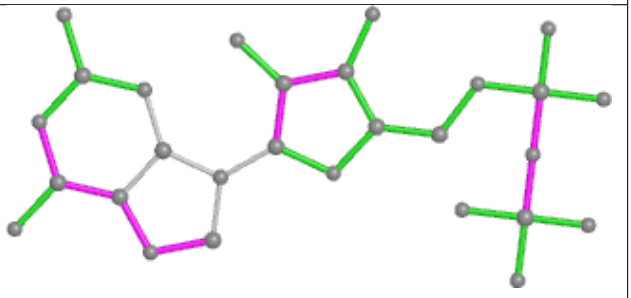

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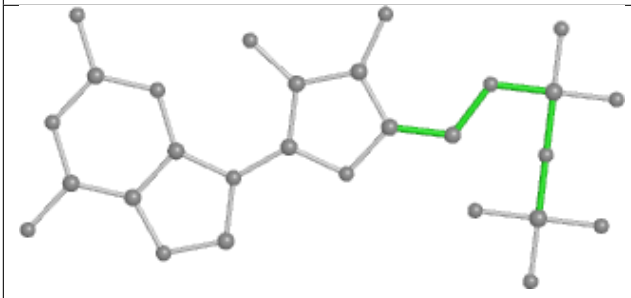

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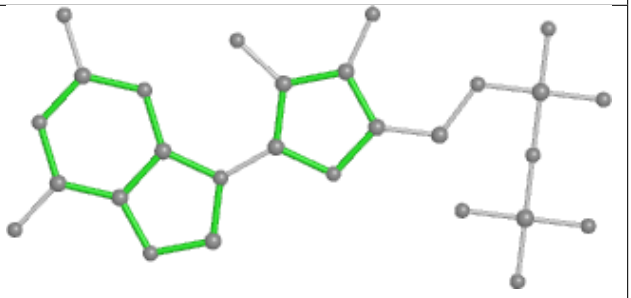

Rings

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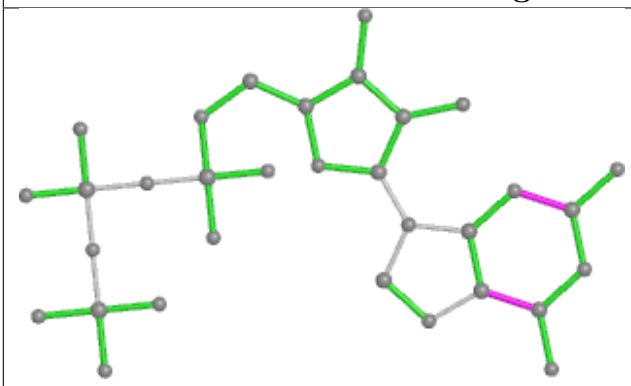

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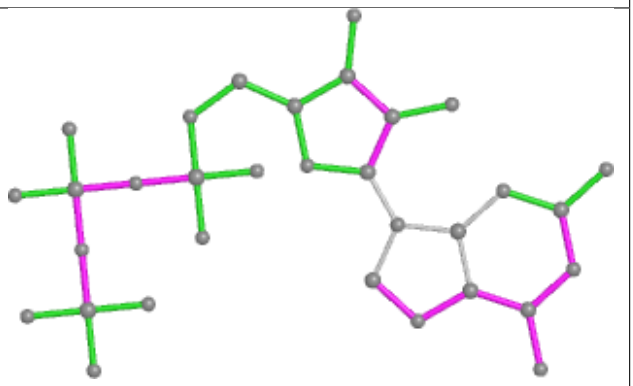

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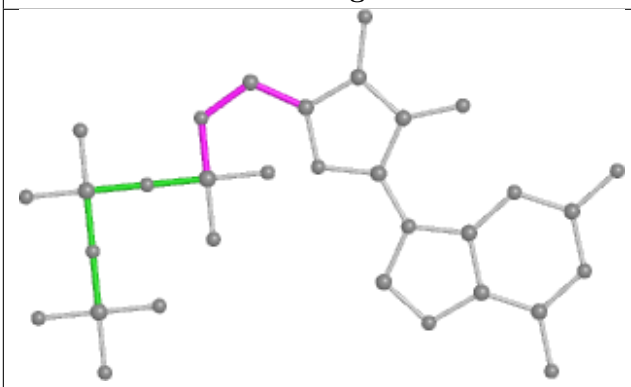

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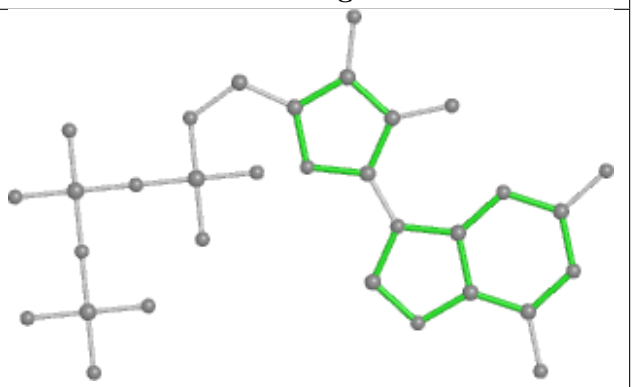
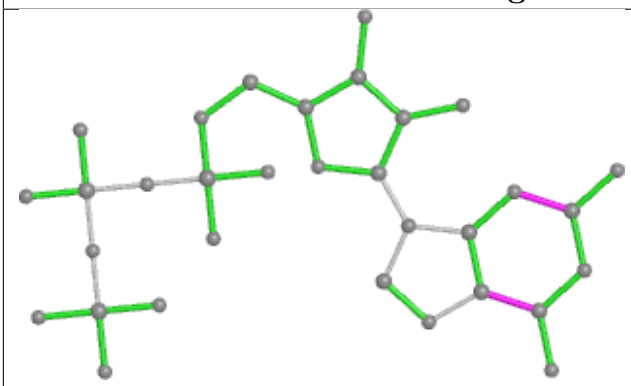


Rings

Ligand GTP XH 501



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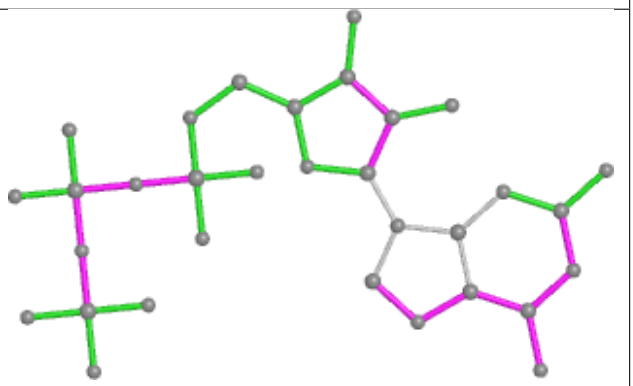

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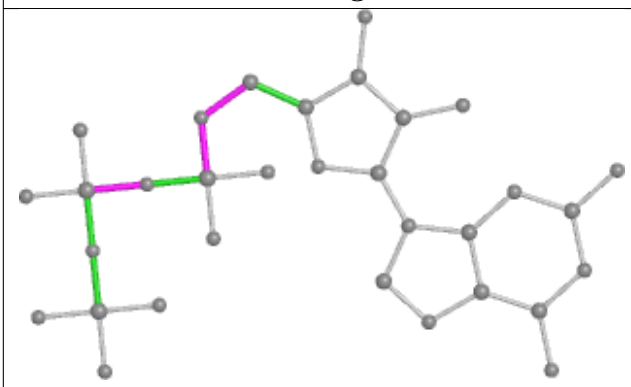

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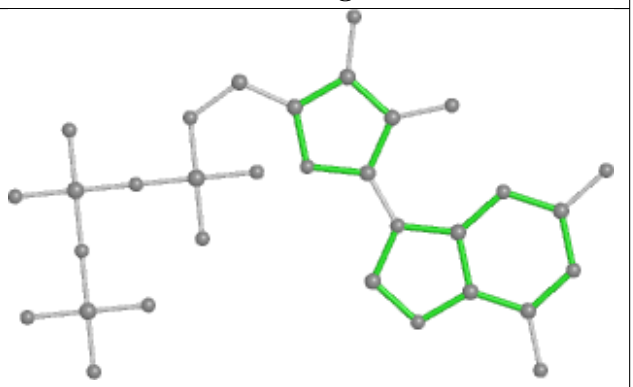

Rings

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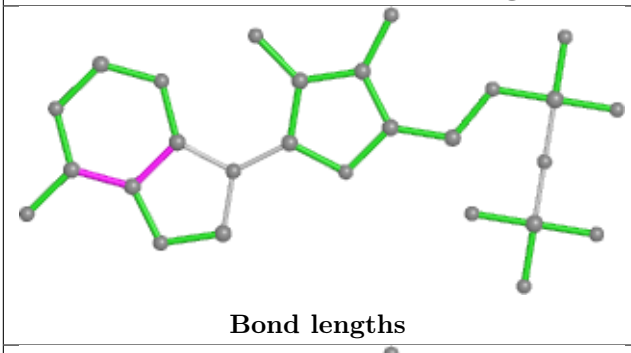

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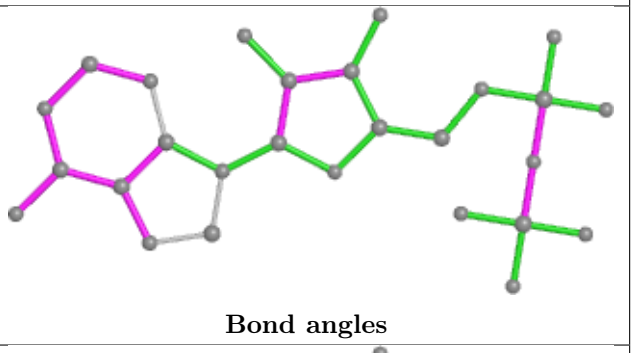
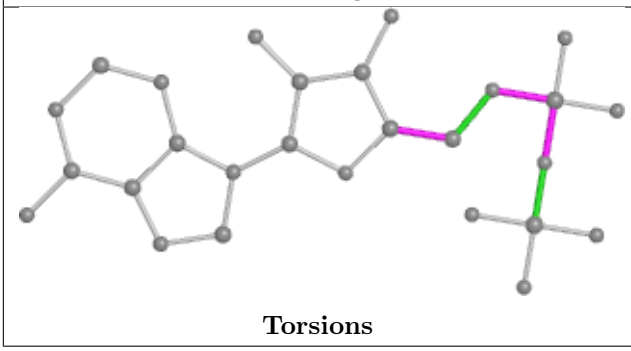


Bond angles



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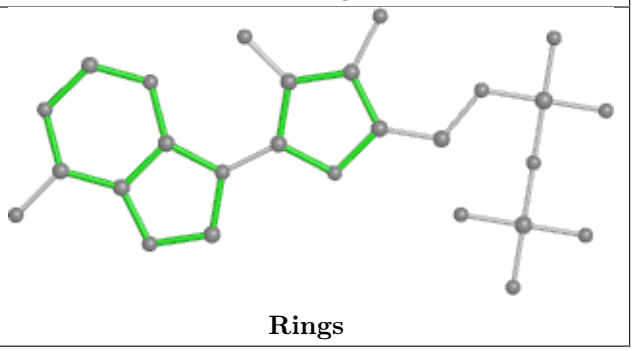

Rings

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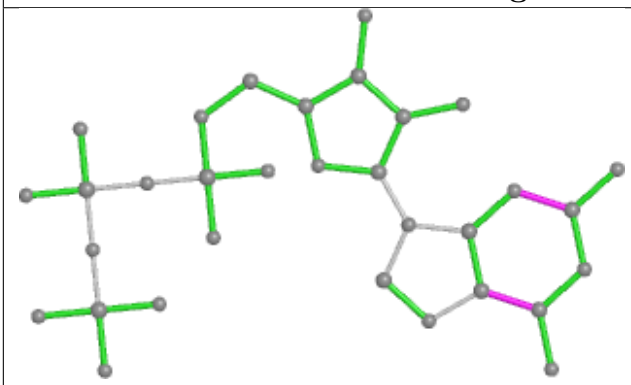

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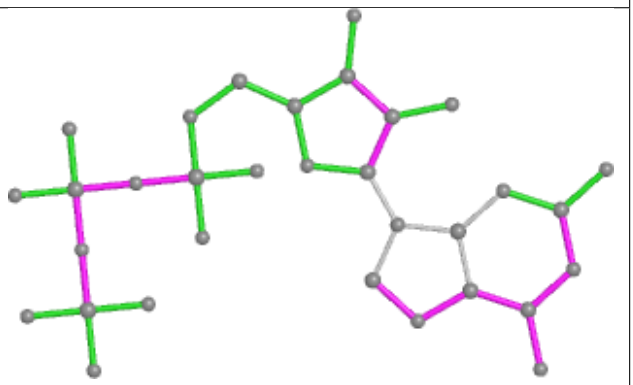
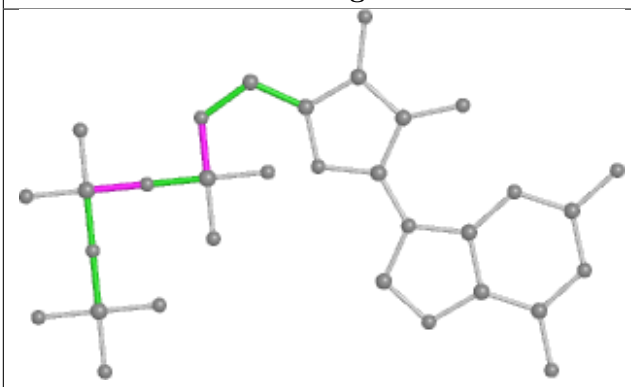


Bond angles



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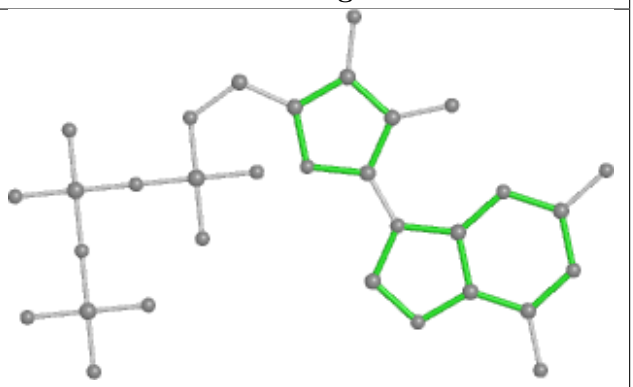

Rings

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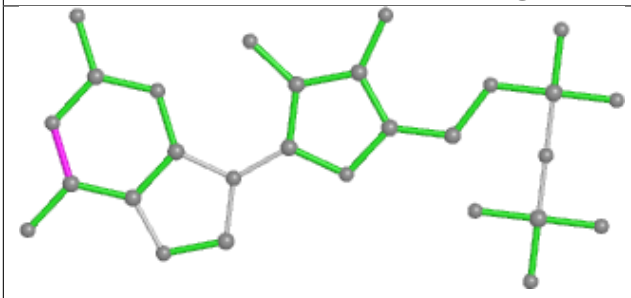

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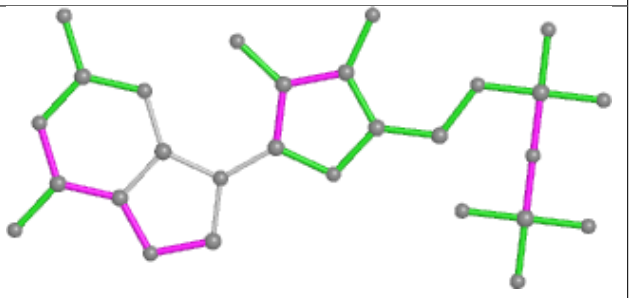

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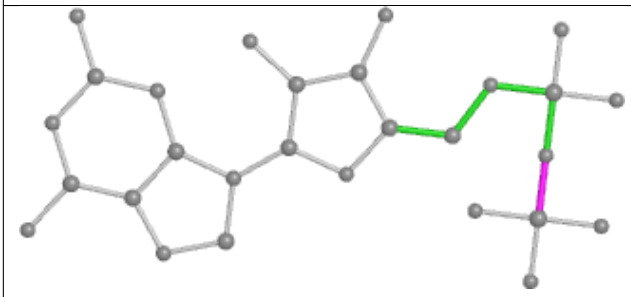
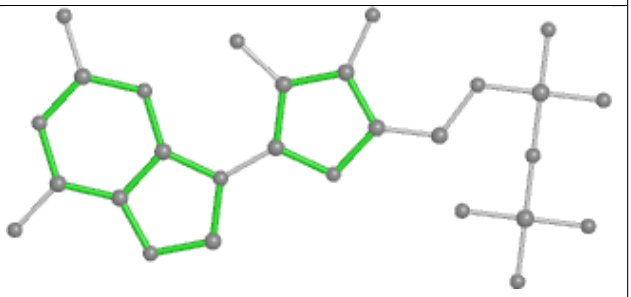
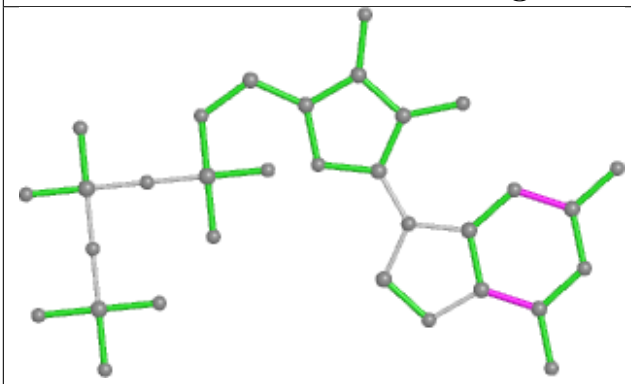


Torsions



Rings

Ligand GTP YF 501



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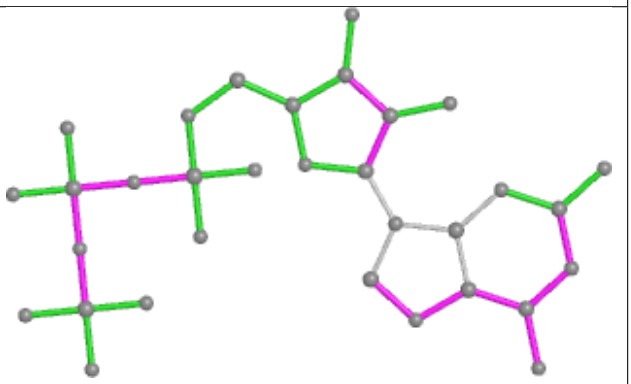

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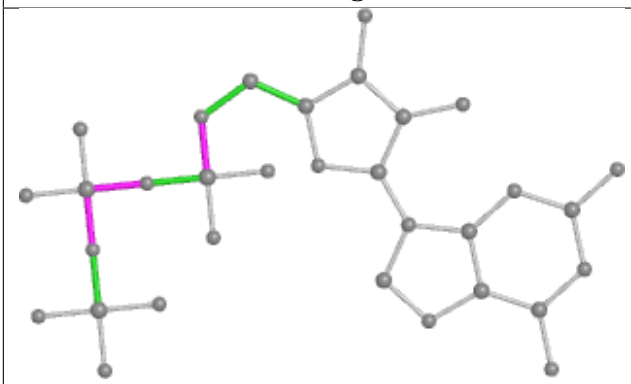

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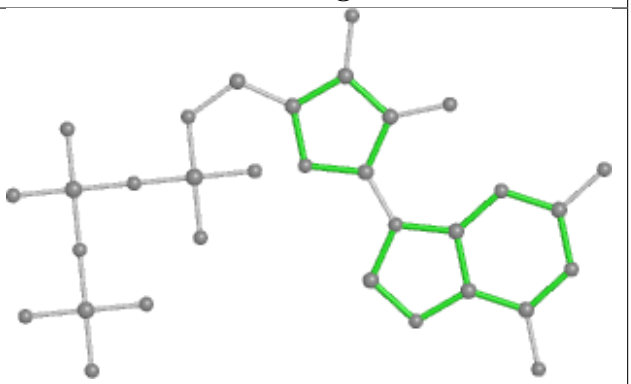
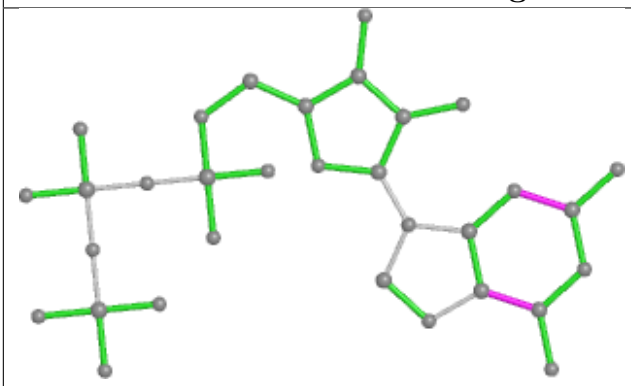


Rings

Ligand GTP UB 501



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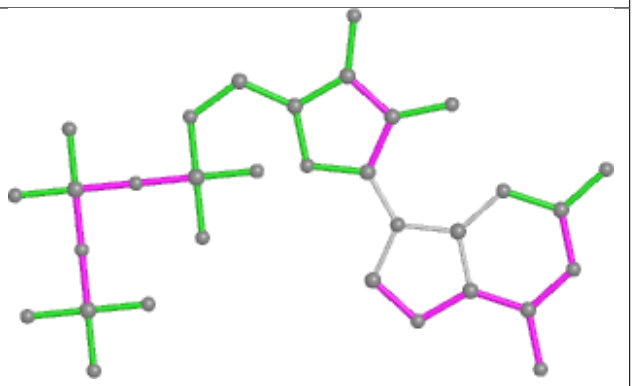

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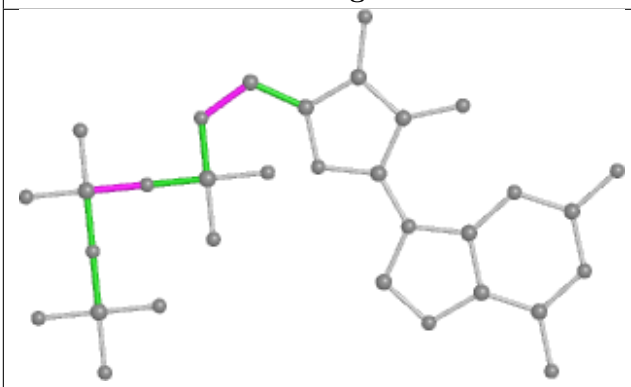

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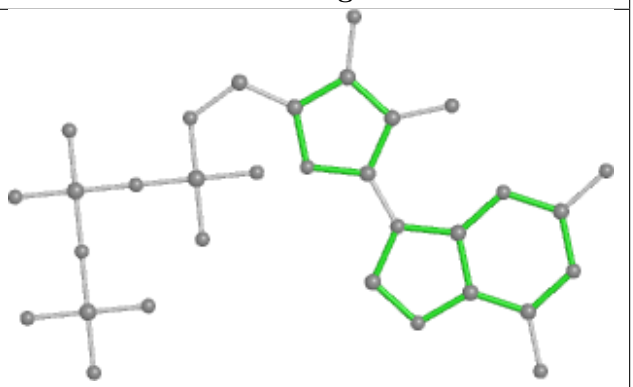
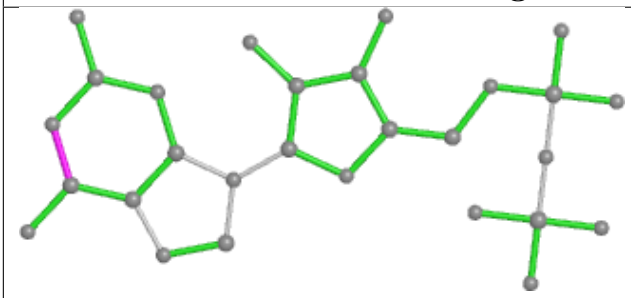


Rings

Ligand GDP PC 501



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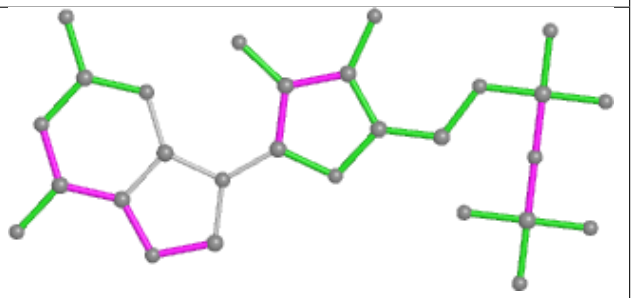

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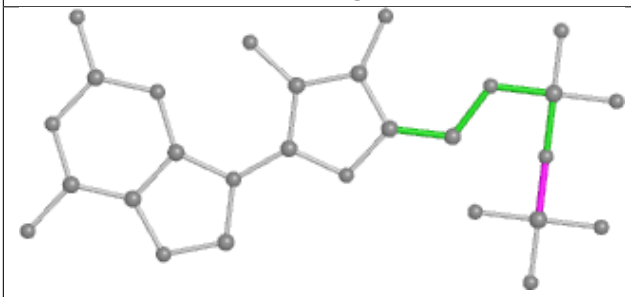

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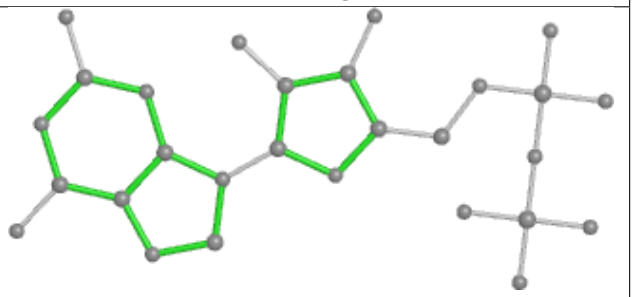
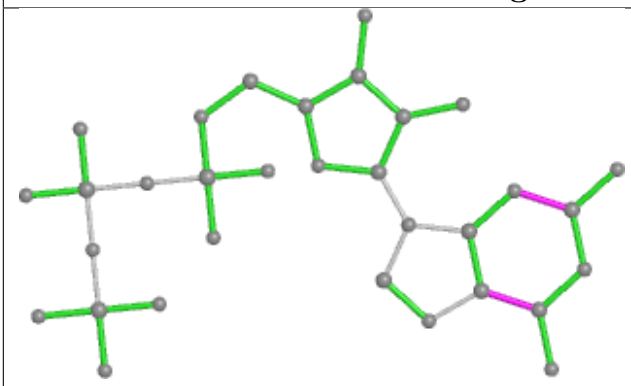


Rings

Ligand GTP QP 501



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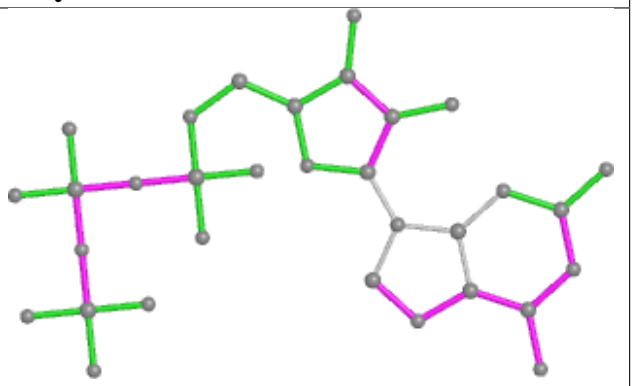

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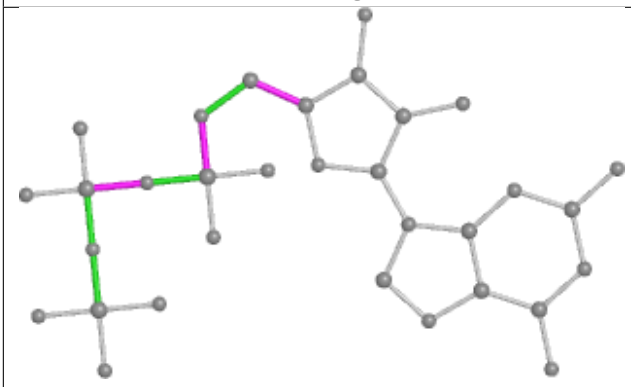

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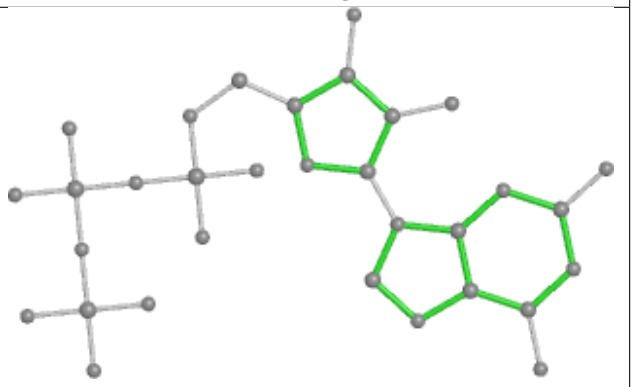
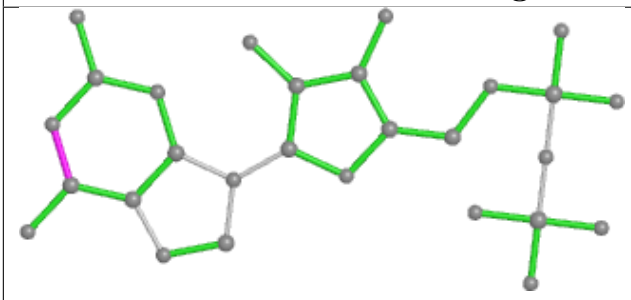


Rings

Ligand GDP SO 502



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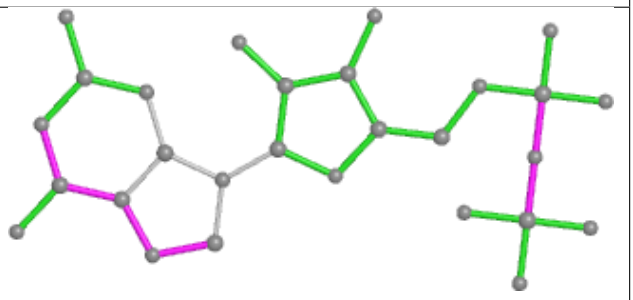

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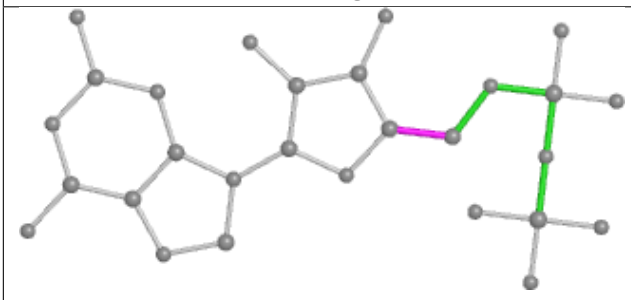

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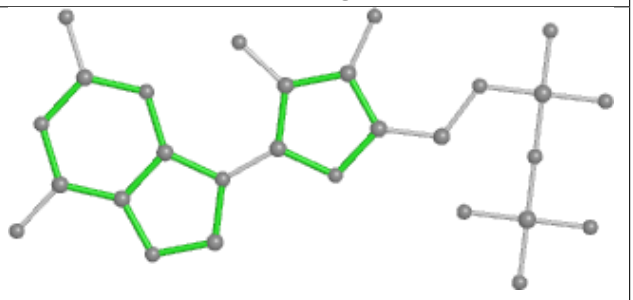
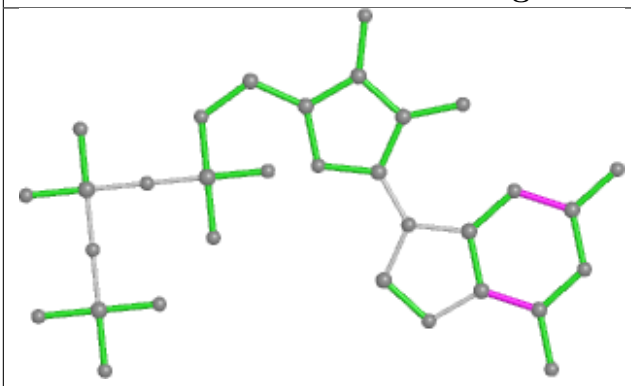


Rings

Ligand GTP NJ 501



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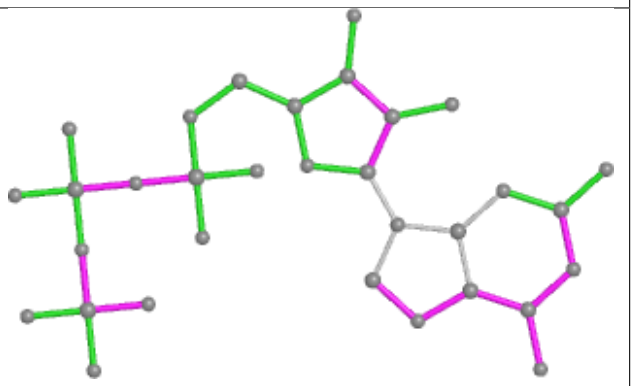

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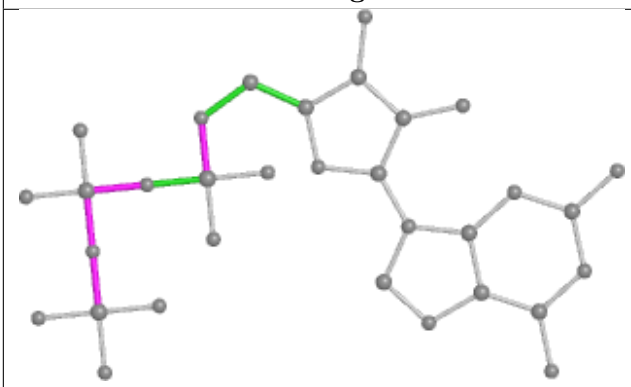

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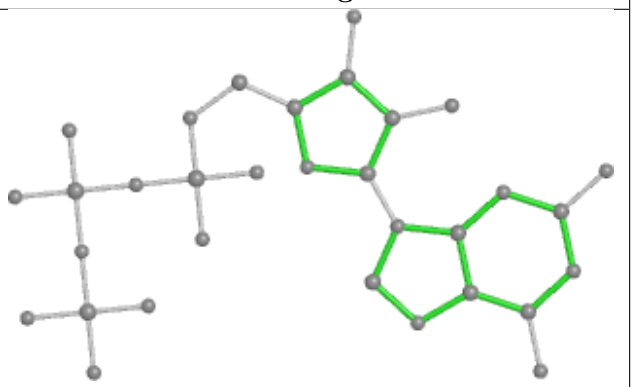
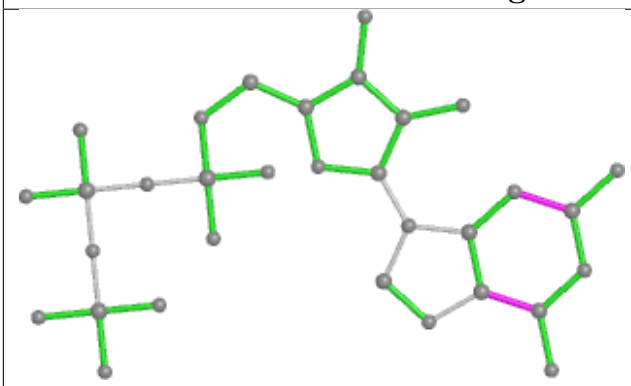


Rings

Ligand GTP XD 501



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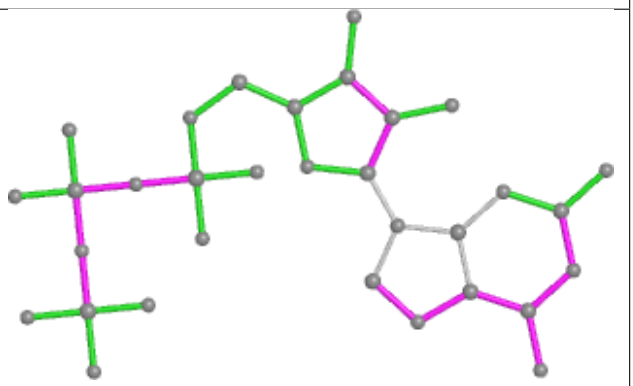

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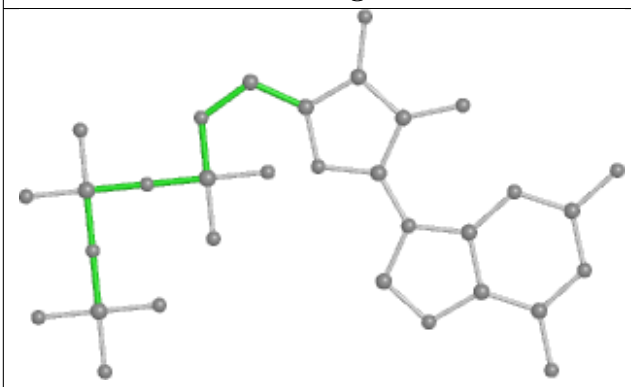

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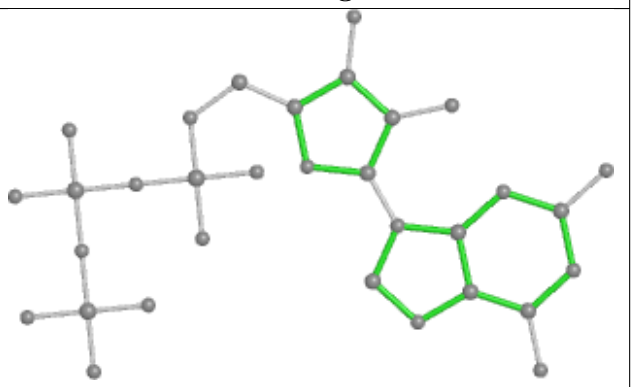
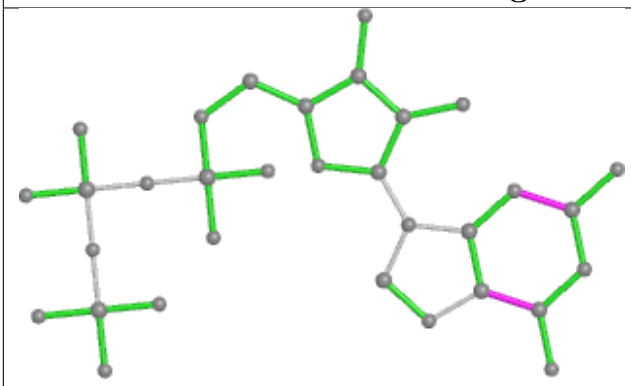


Rings

Ligand GTP OP 501



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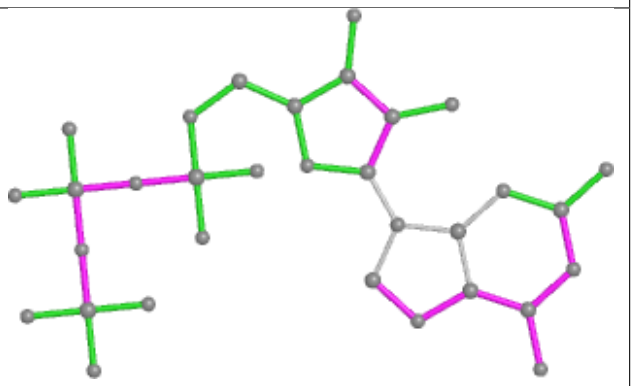

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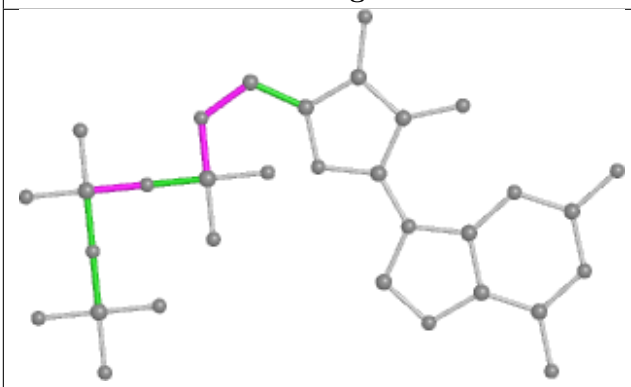

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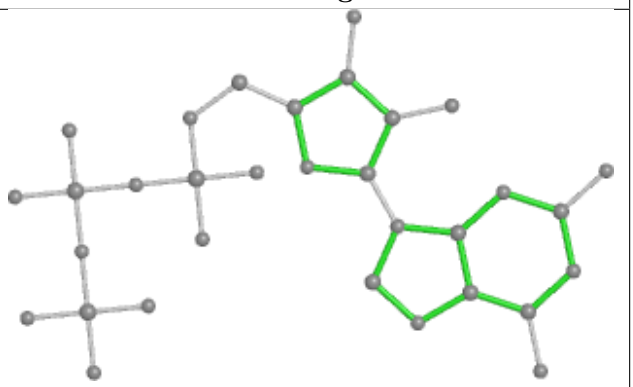
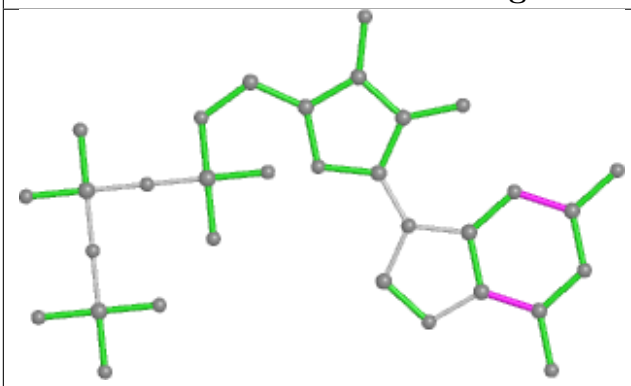


Rings

Ligand GTP TH 501



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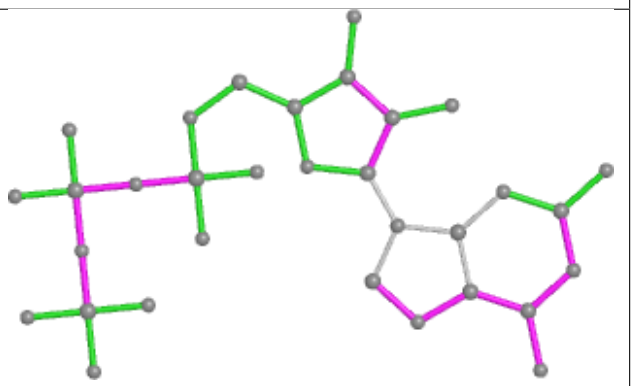

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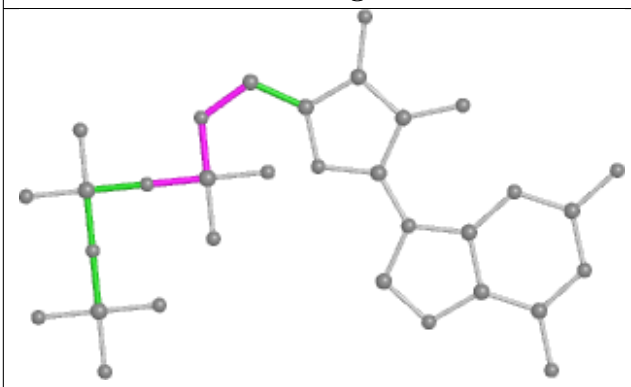

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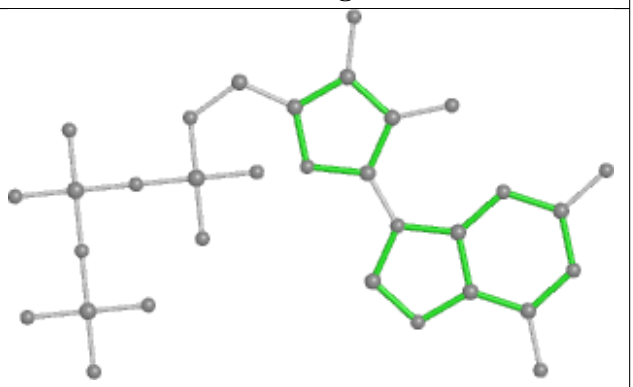
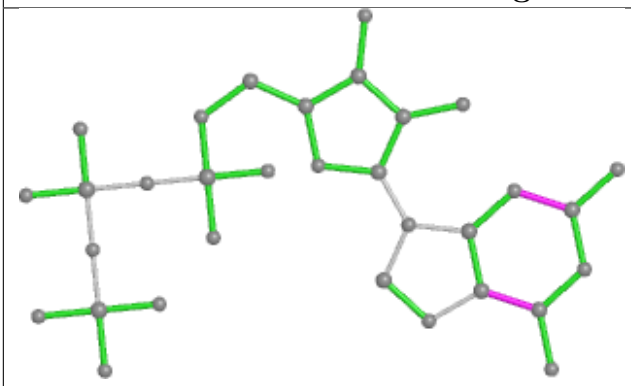


Rings

Ligand GTP YJ 501



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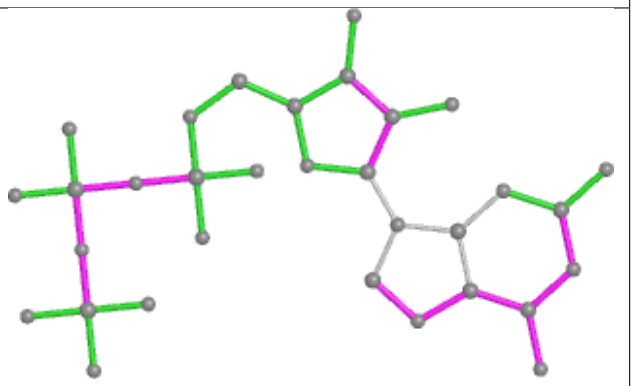

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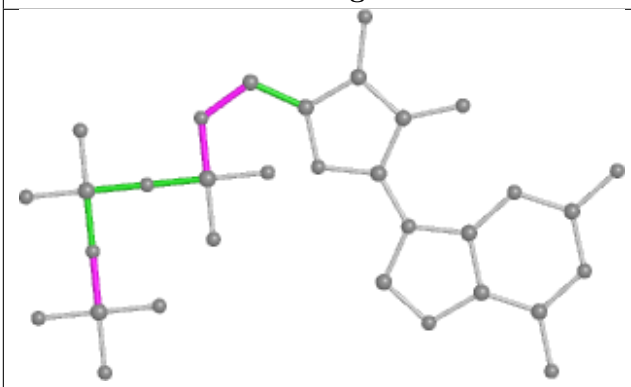

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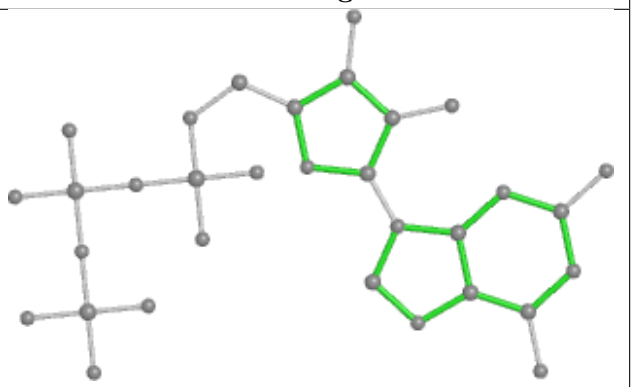
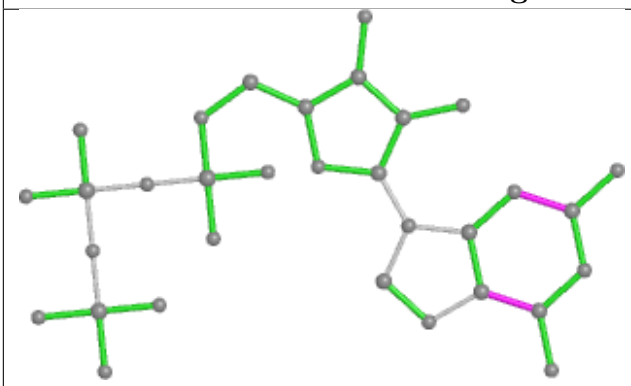


Rings

Ligand GTP TB 501



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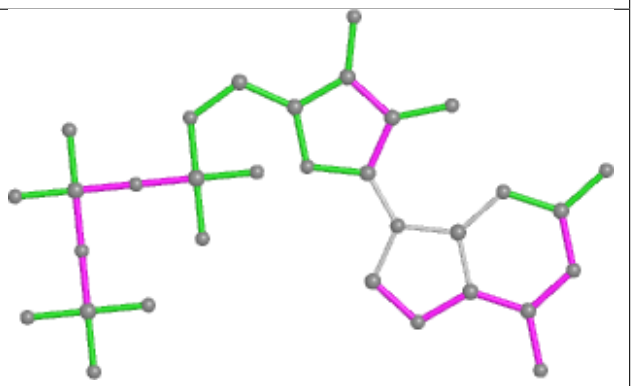

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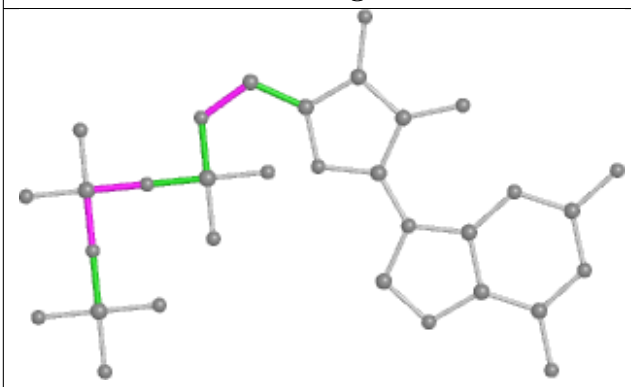

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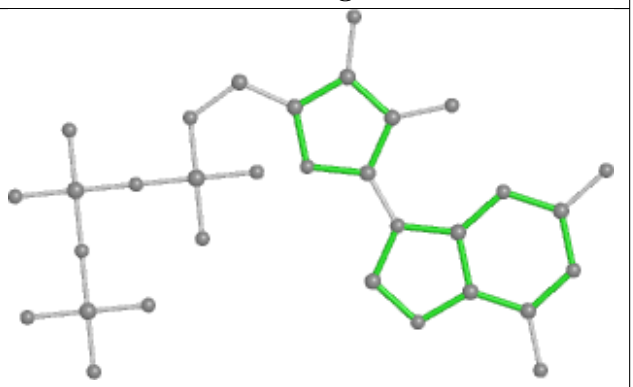
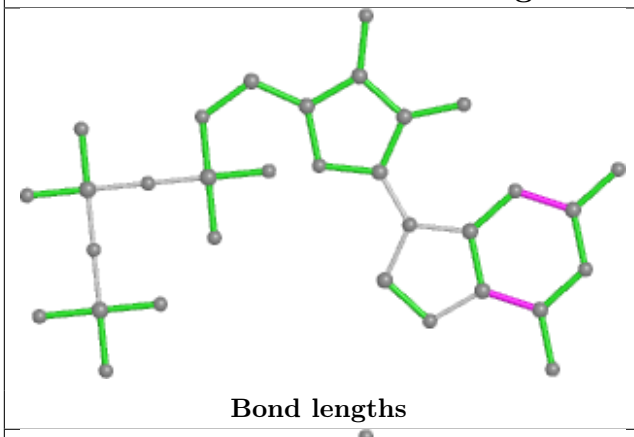


Rings

Ligand GTP TJ 501



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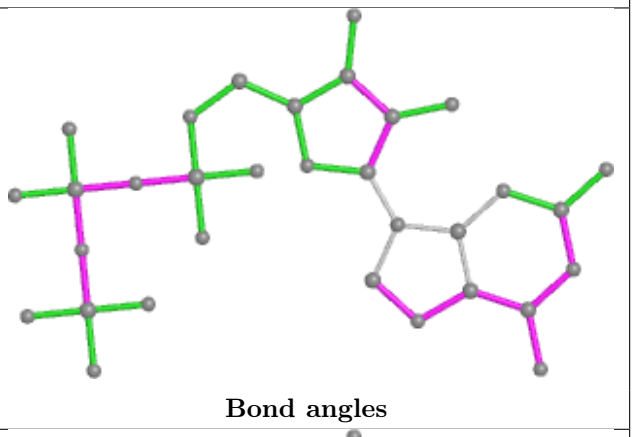

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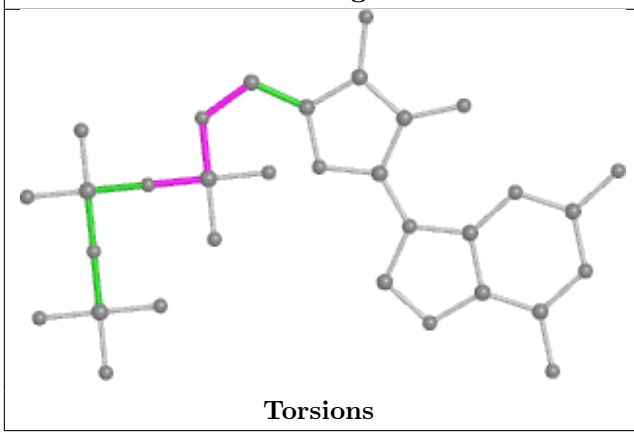

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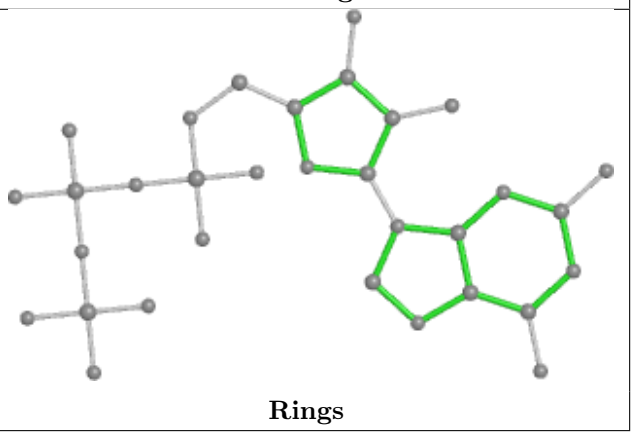
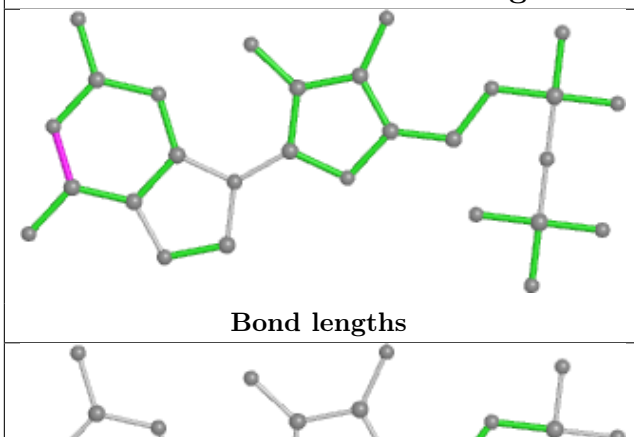


Rings

Ligand GDP VC 501



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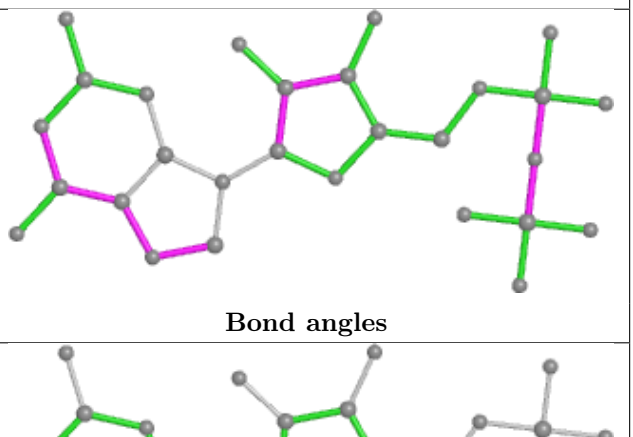
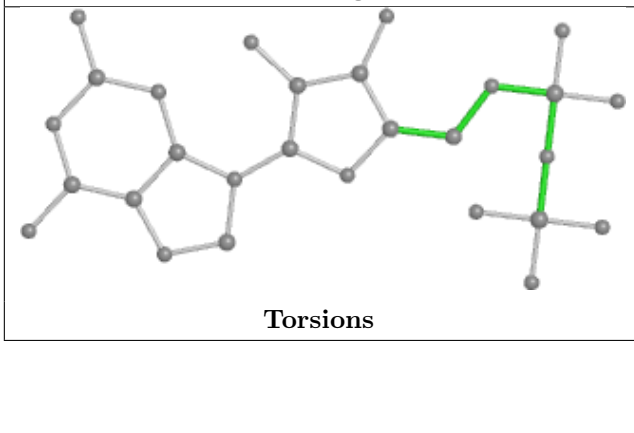


Bond angles



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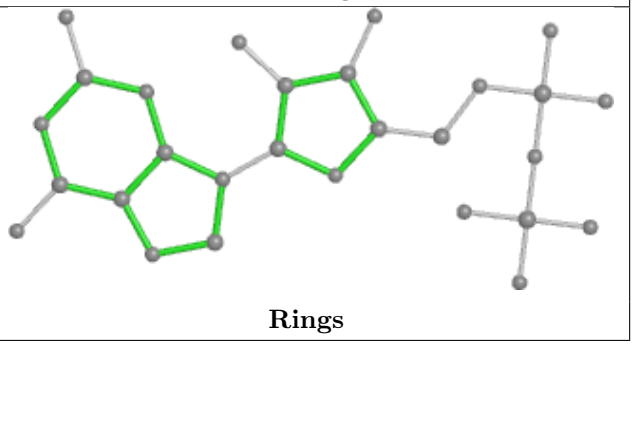
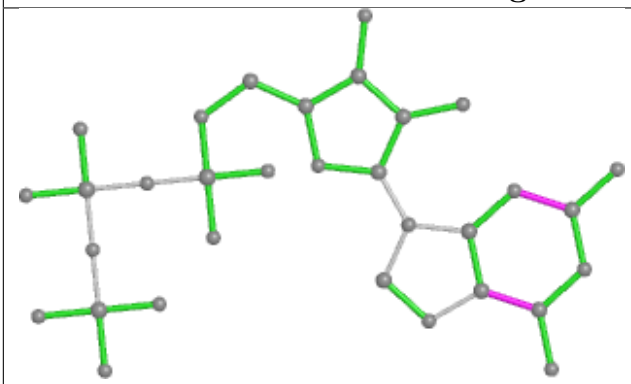


Rings

Ligand GTP PH 501



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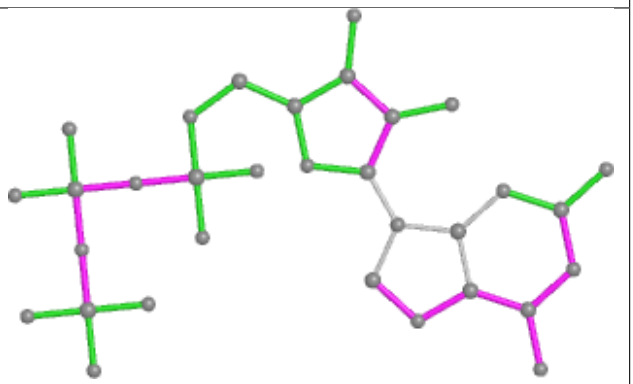
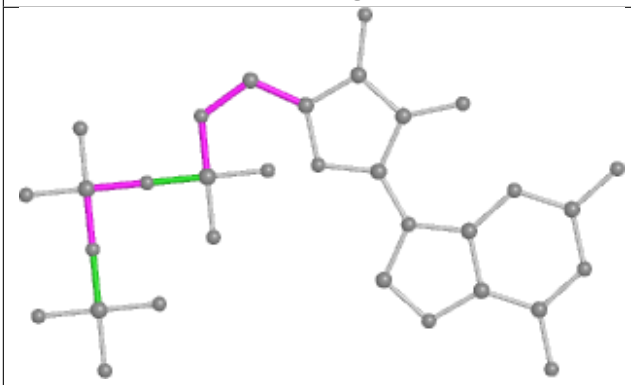
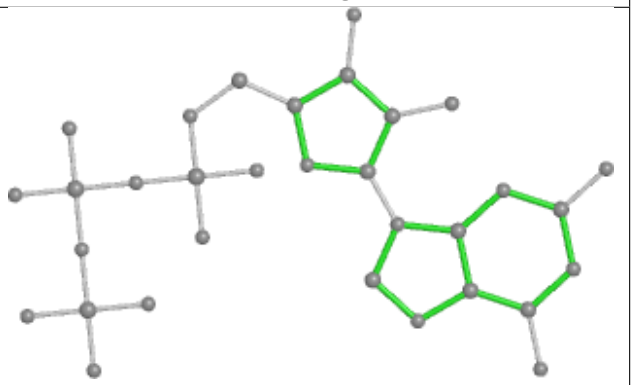


Bond angles

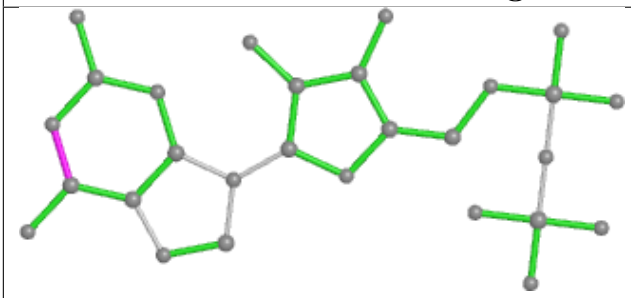


Torsions



Rings

Ligand GDP OG 501



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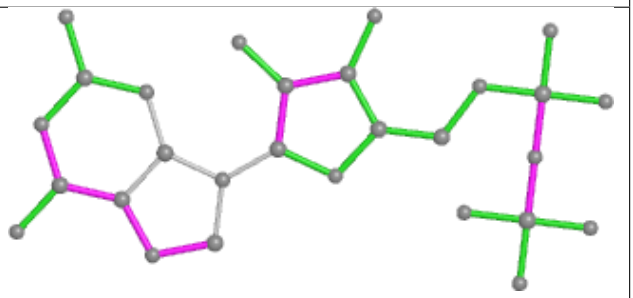

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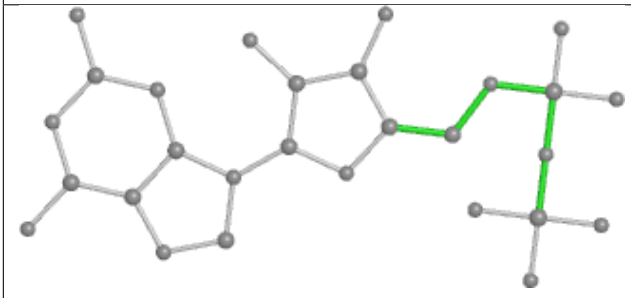

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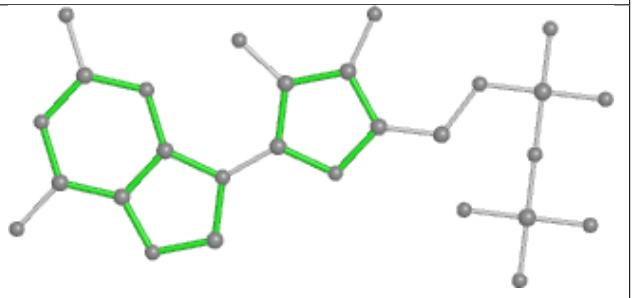
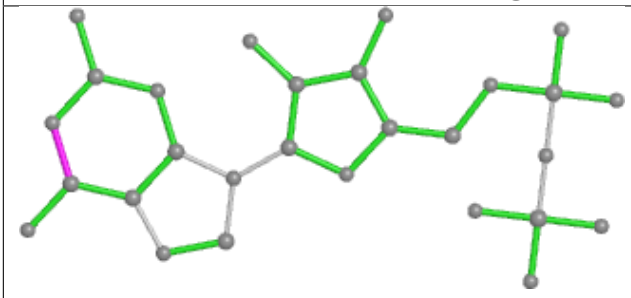


Rings

Ligand GDP QQ 501



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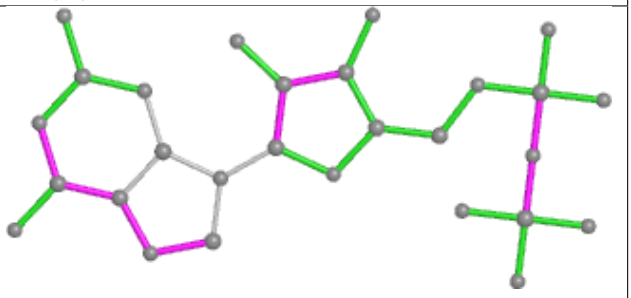

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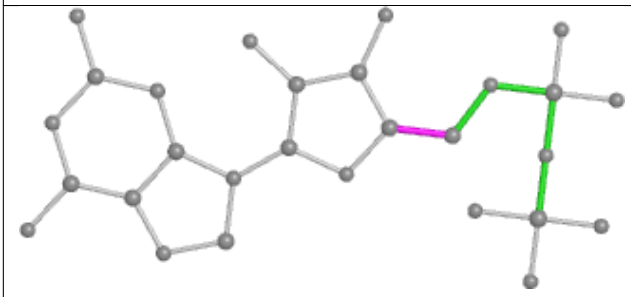

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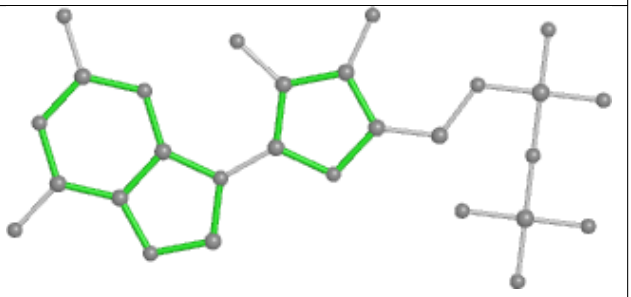
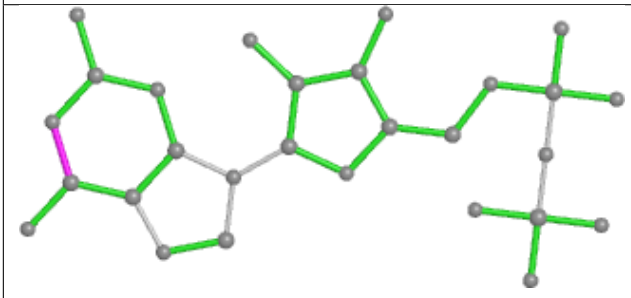


Rings

Ligand GDP ZK 501



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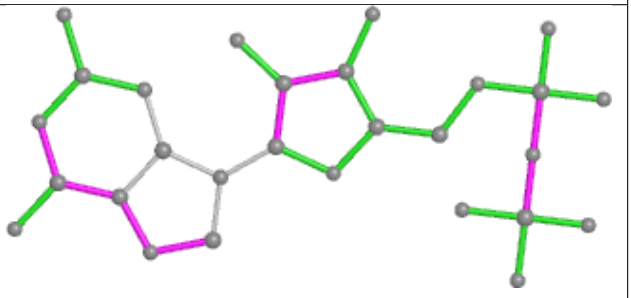

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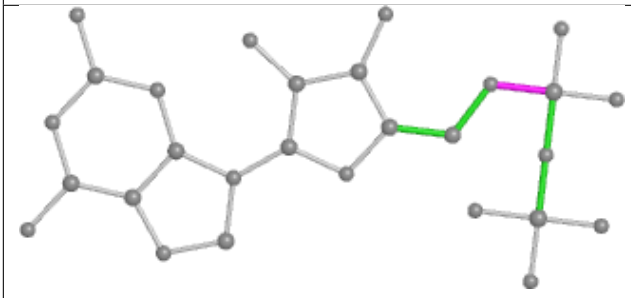

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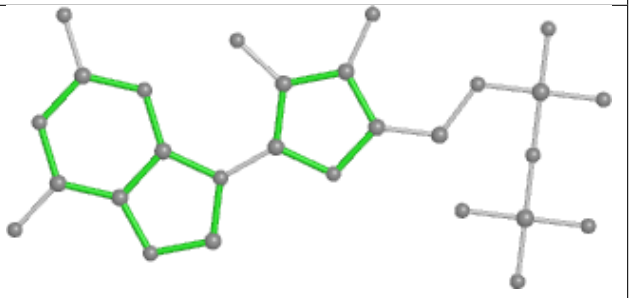

Rings

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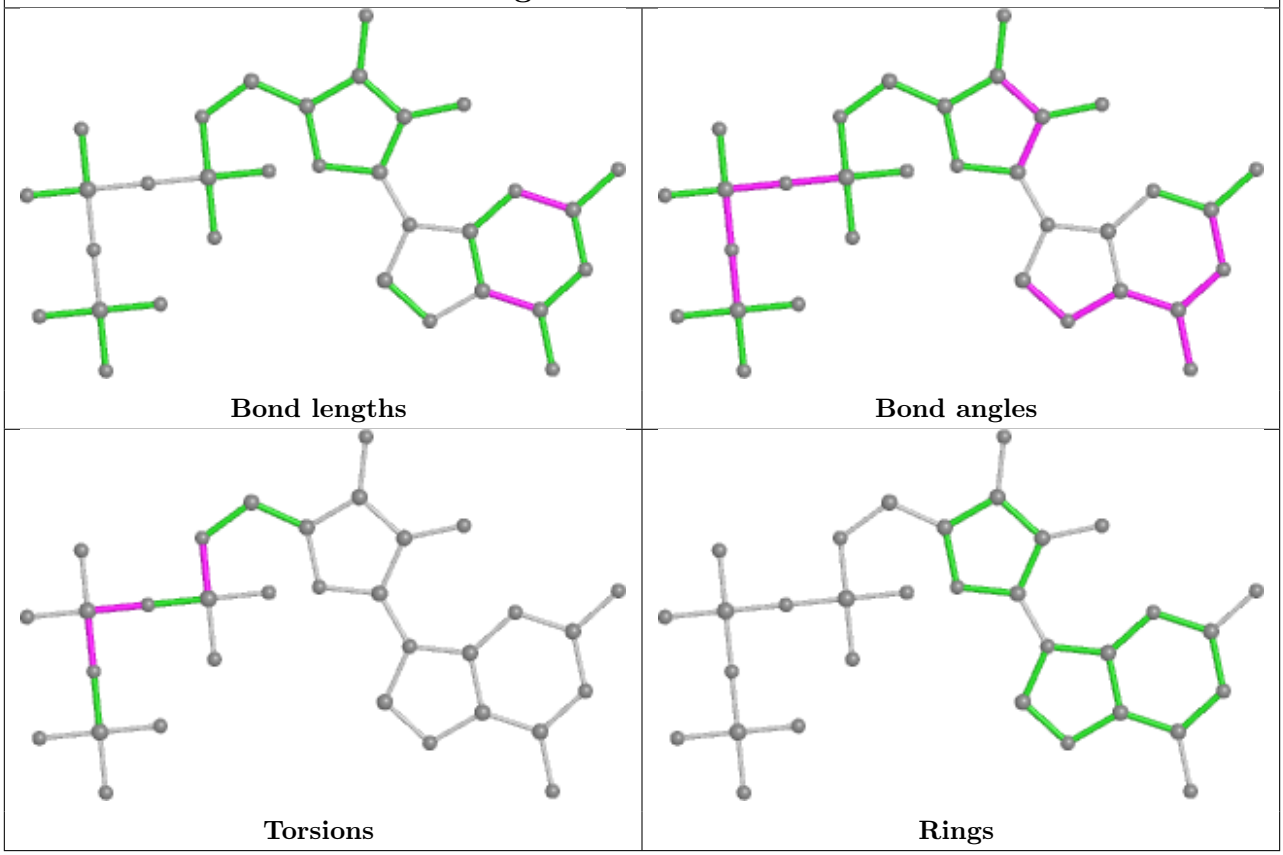

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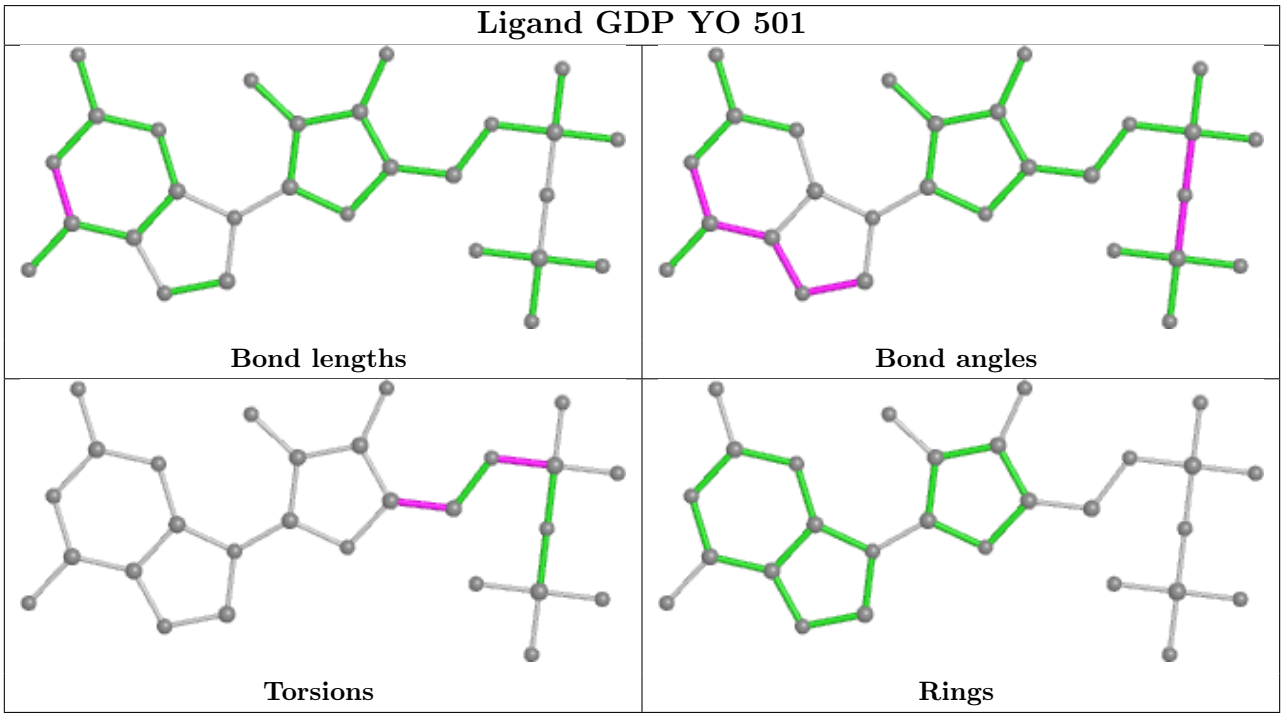
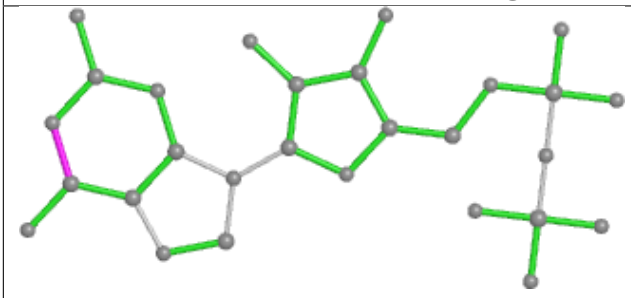
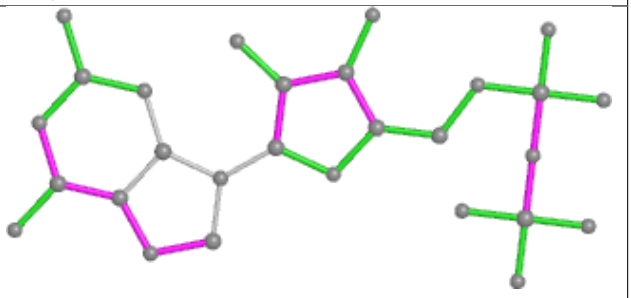
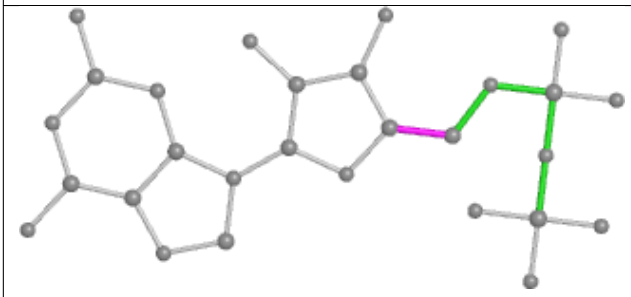
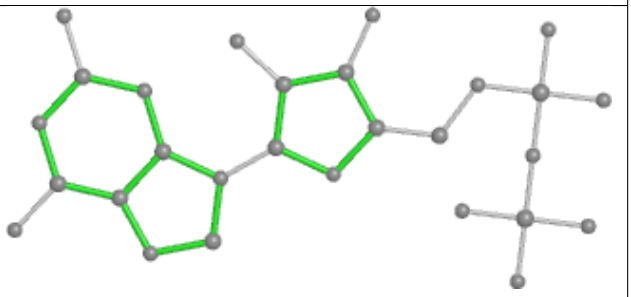


Ligand GDP QM 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

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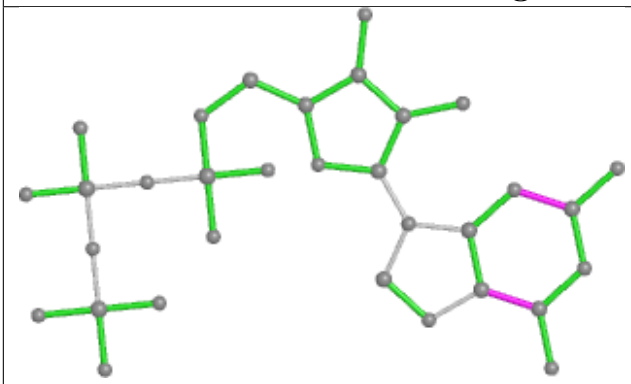
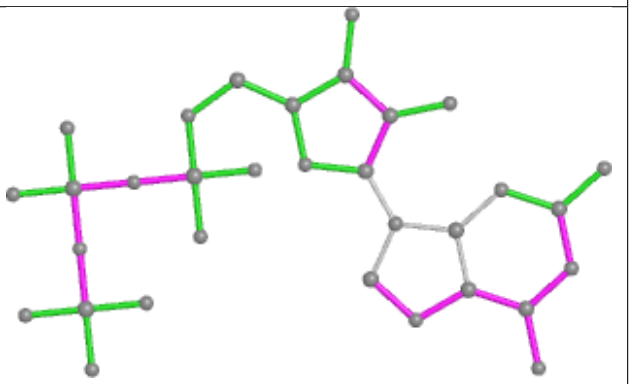
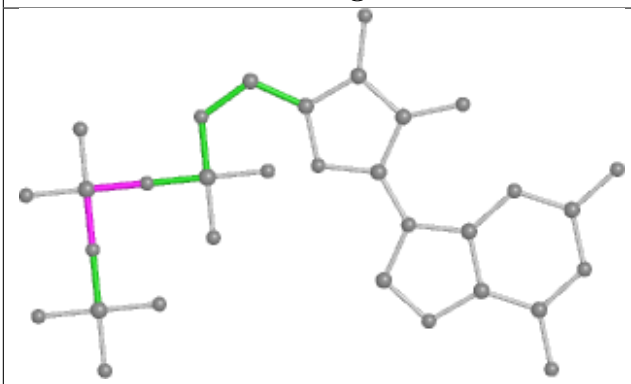
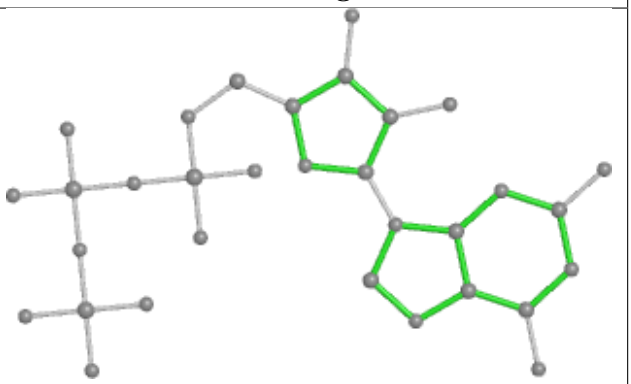
 Bond lengths	 Bond angles
 Torsions	 Rings

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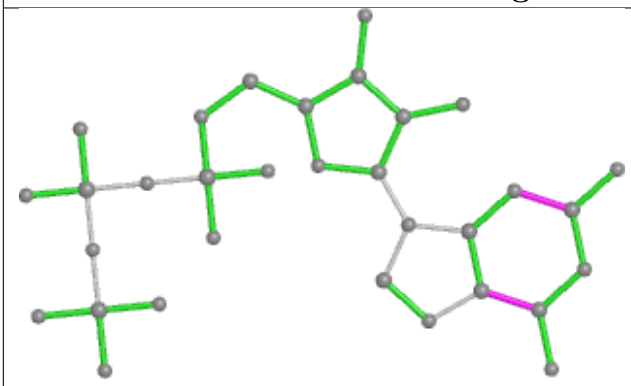

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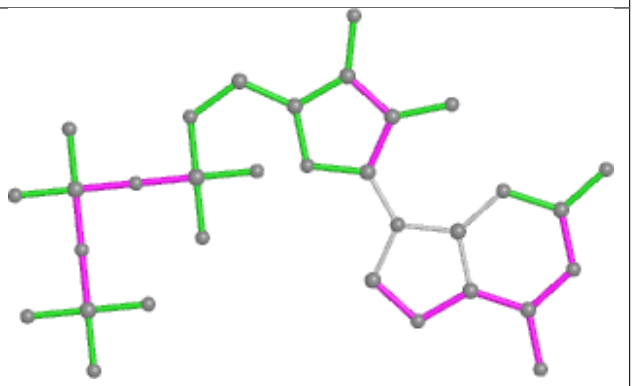

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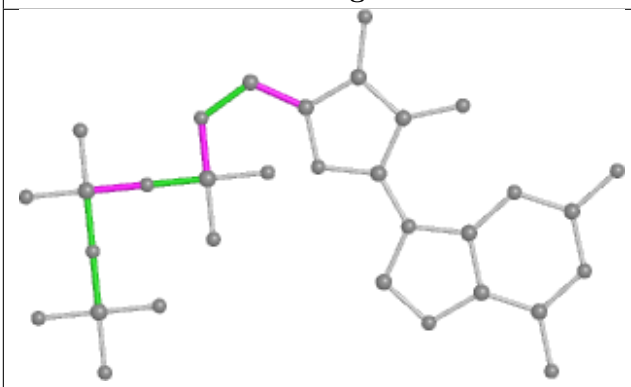

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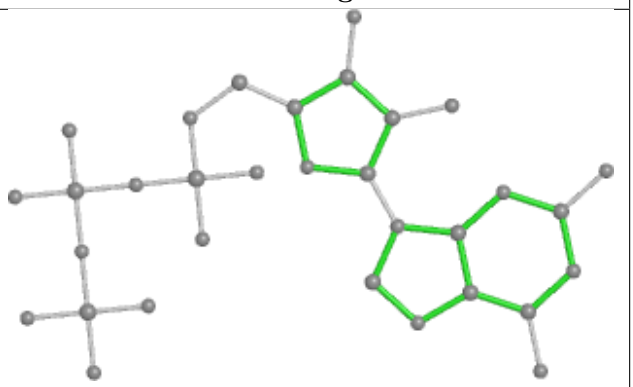
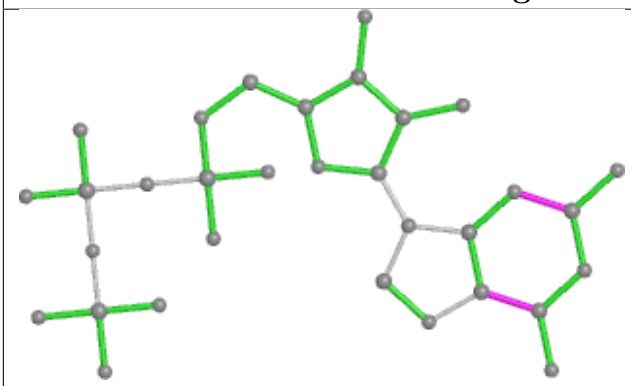


Rings

Ligand GTP RJ 501



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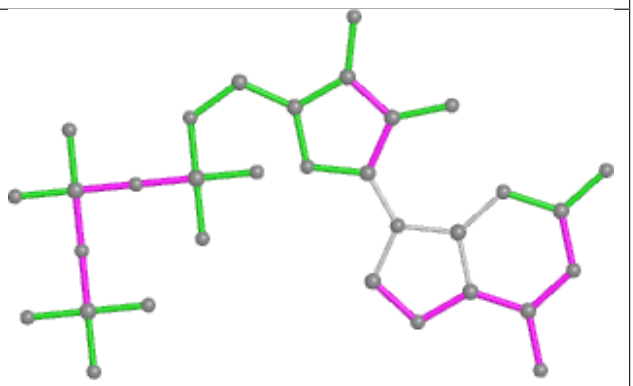

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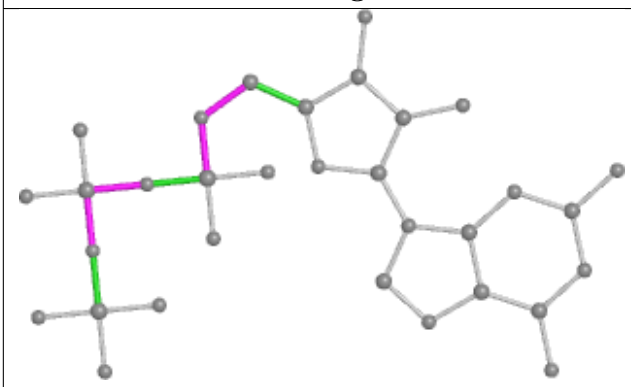

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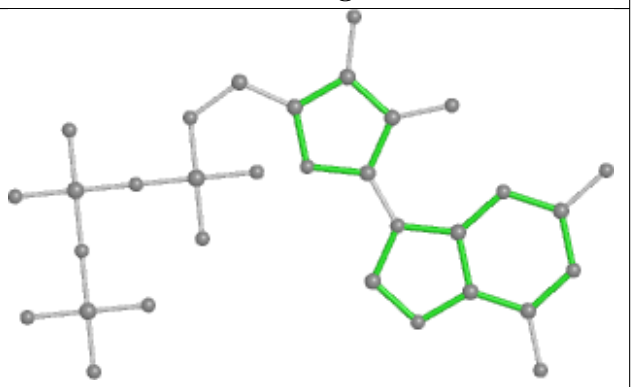
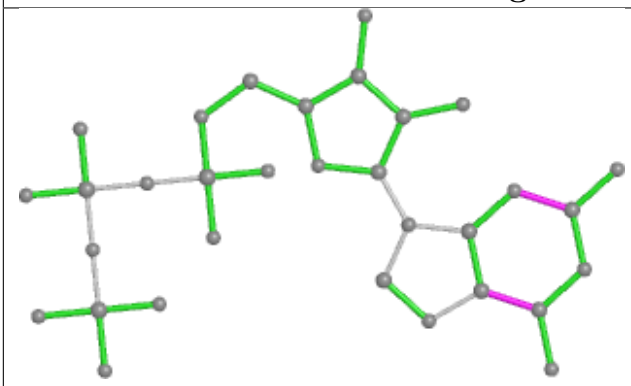


Rings

Ligand GTP PN 501



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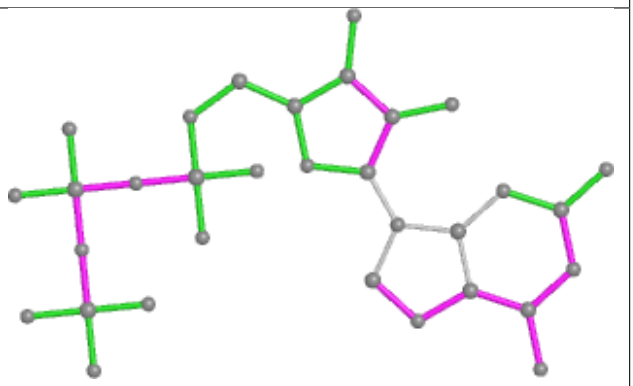
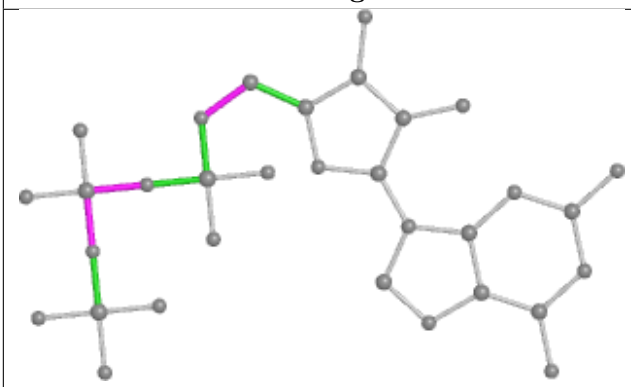


Bond angles



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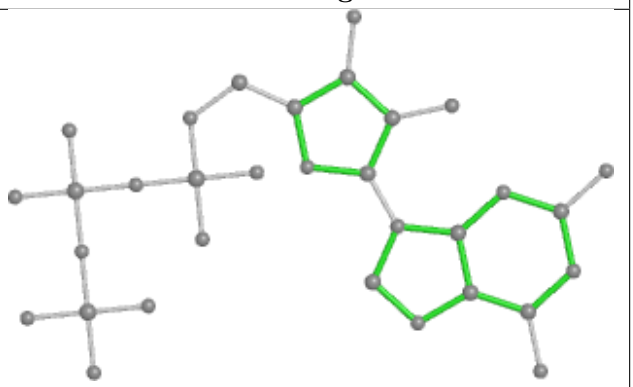

Rings

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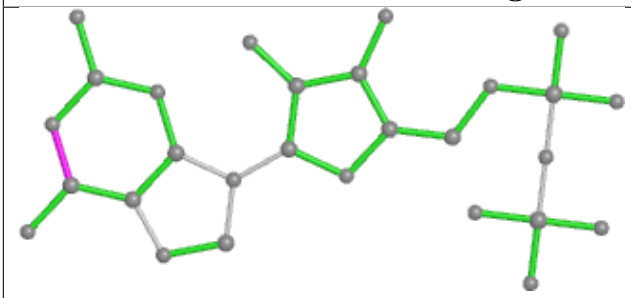

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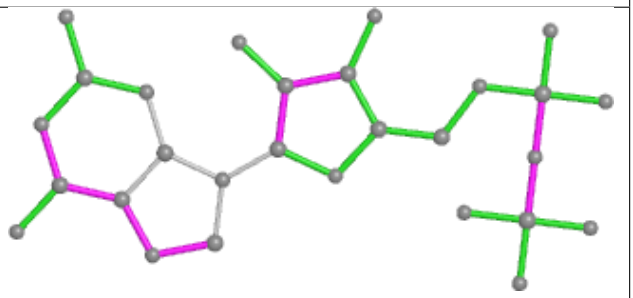

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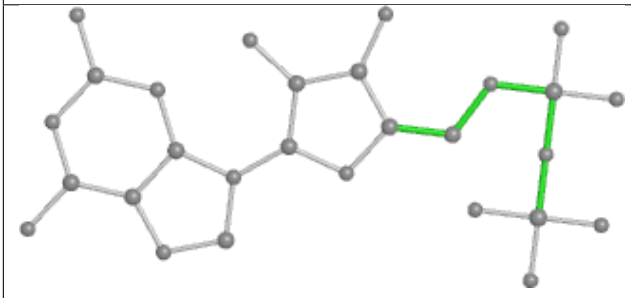

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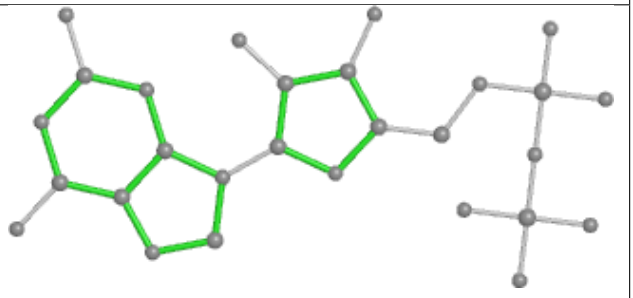

Rings

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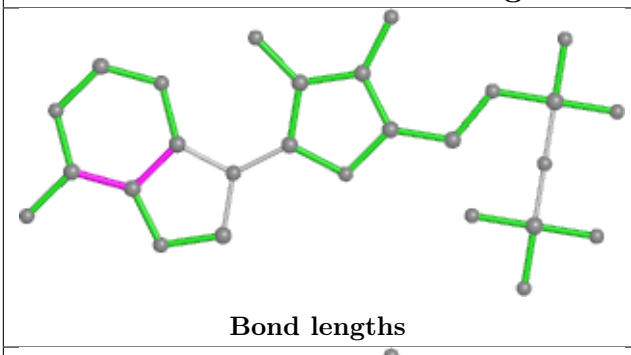

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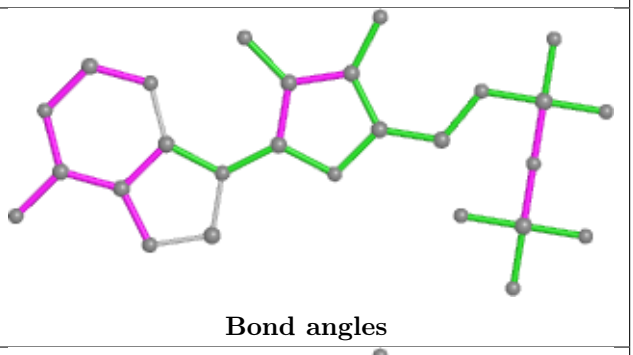

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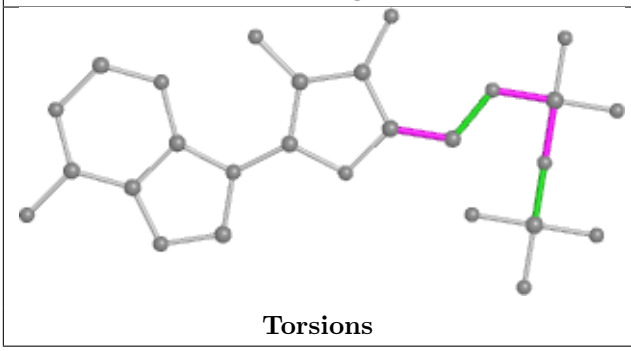

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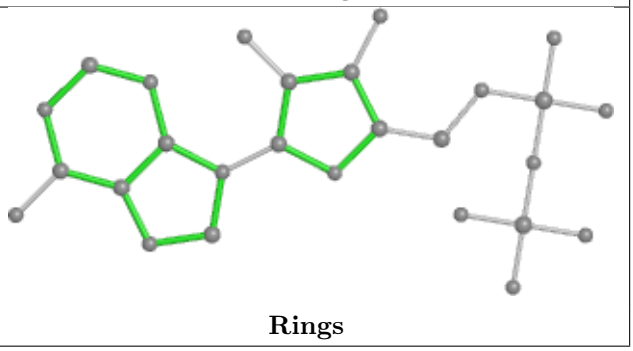
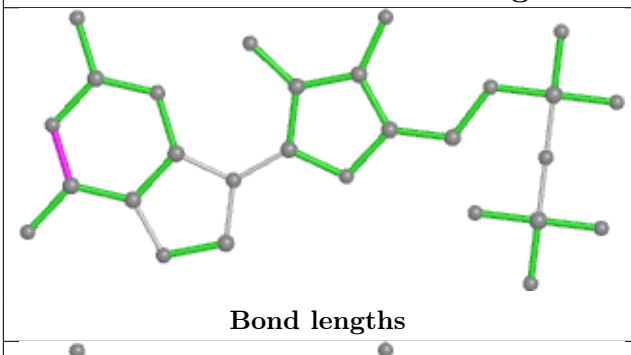


Rings

Ligand GDP SC 502



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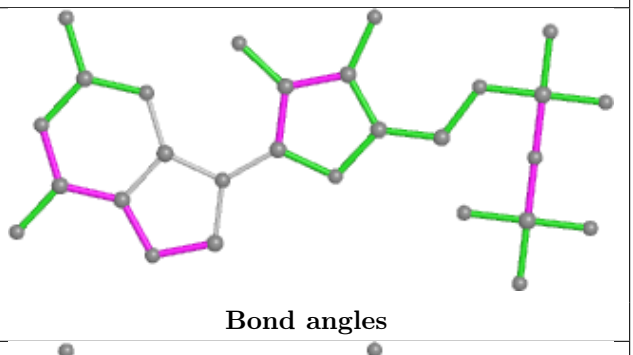

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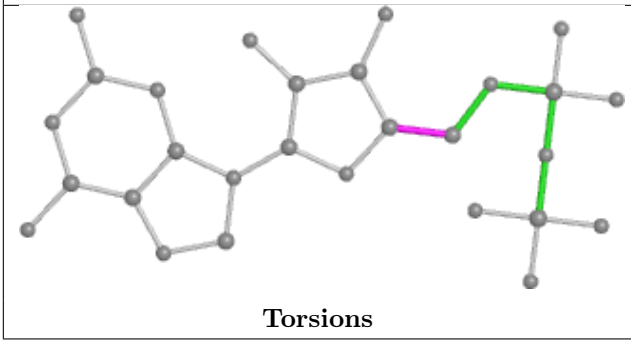

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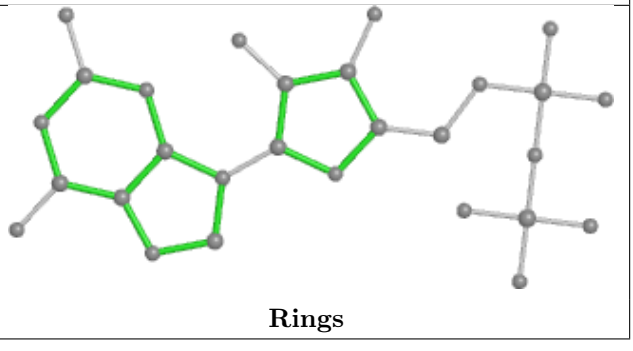
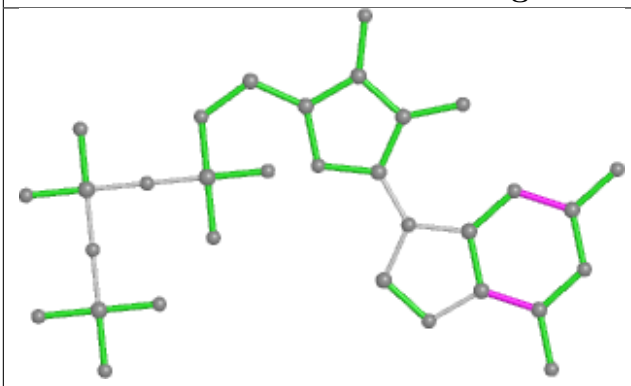


Rings

Ligand GTP VL 501



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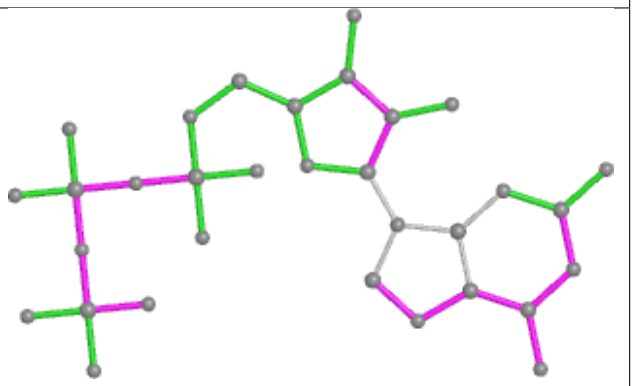
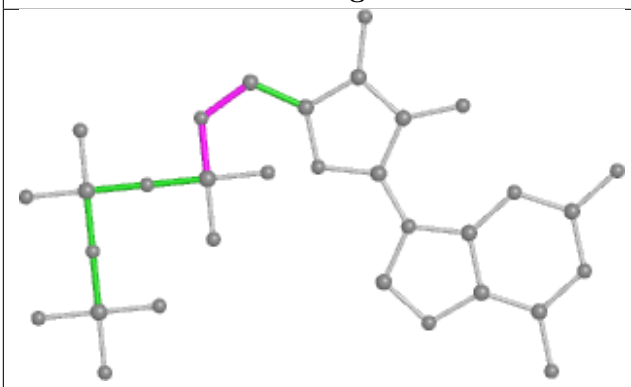


Bond angles



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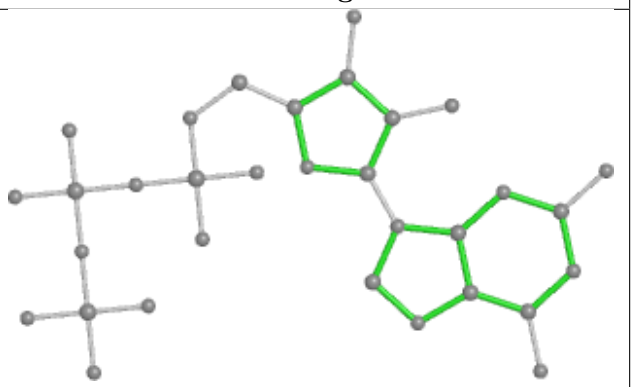
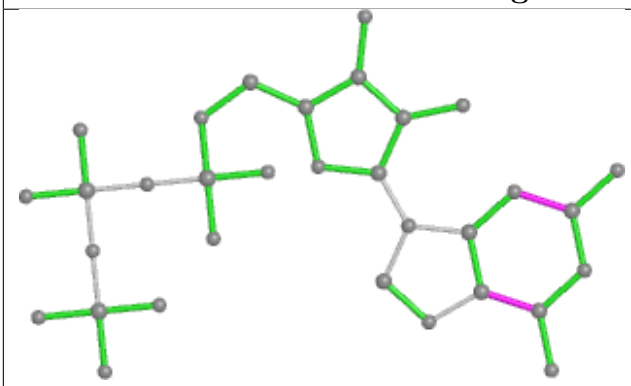


Rings

Ligand GTP VF 501



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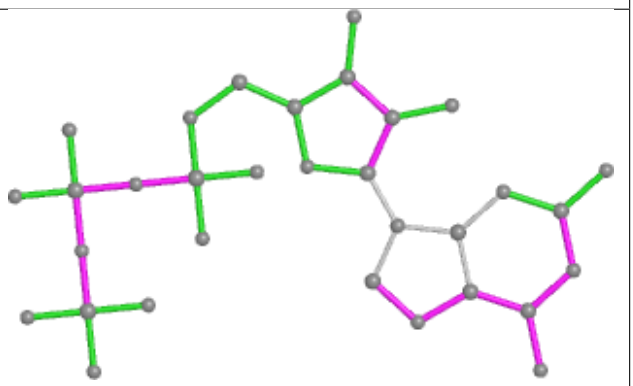
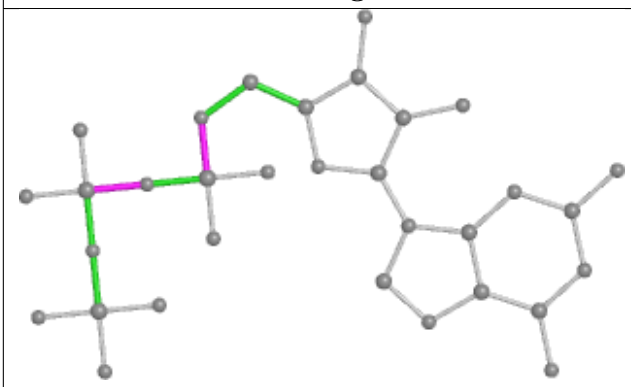
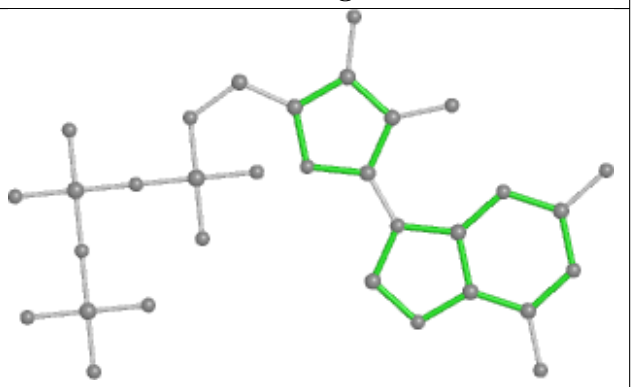


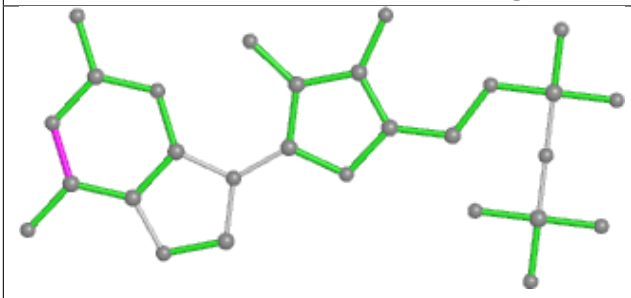
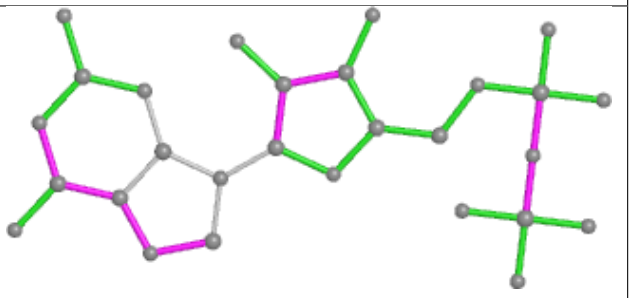
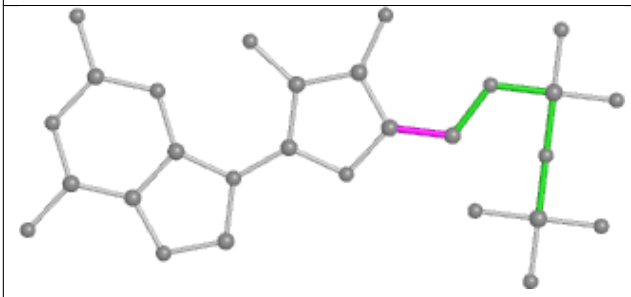
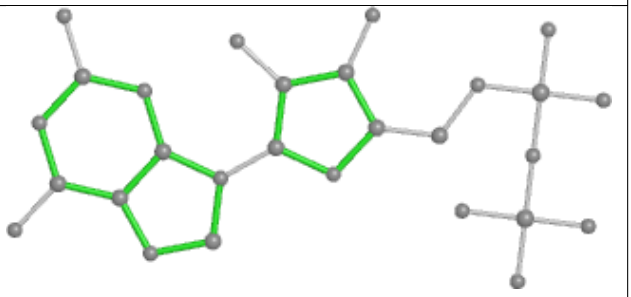
Bond angles



Torsions



Rings

Ligand GDP XO 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

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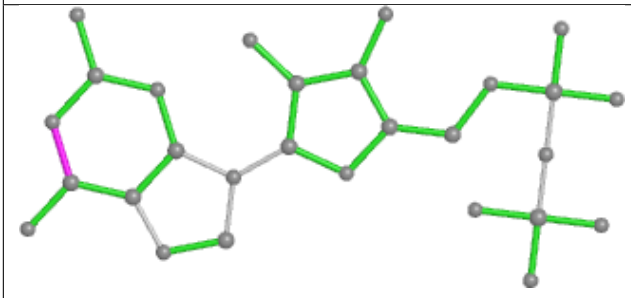
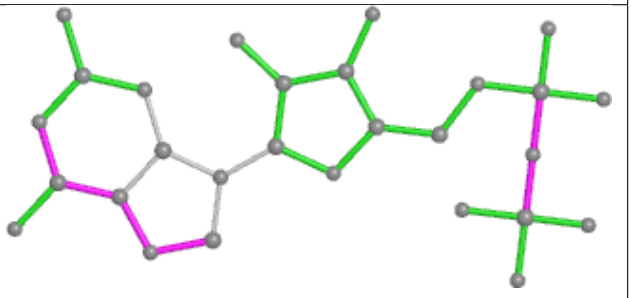
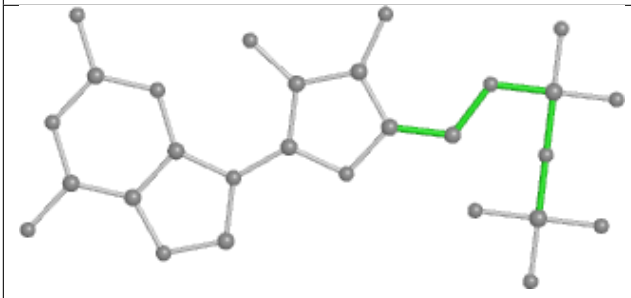
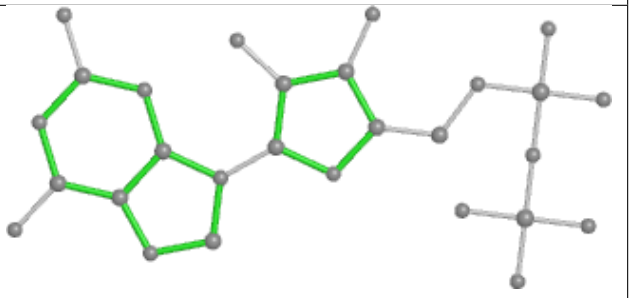
 Bond lengths	 Bond angles
 Torsions	 Rings

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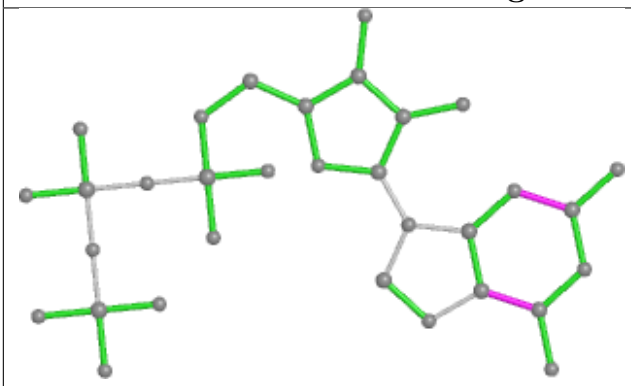

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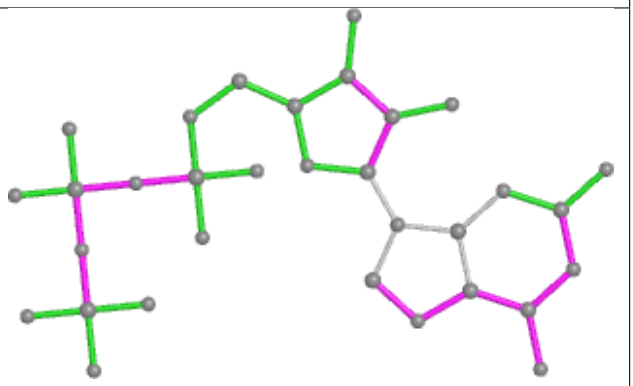

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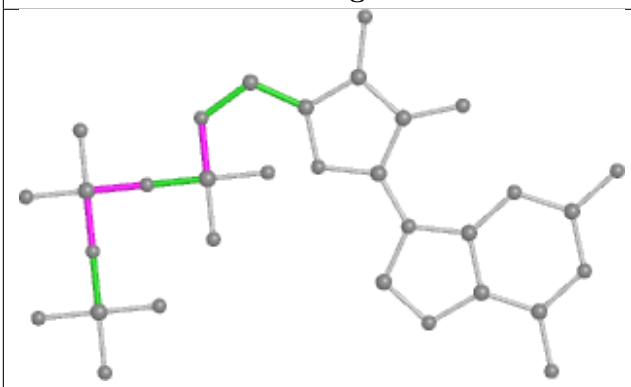

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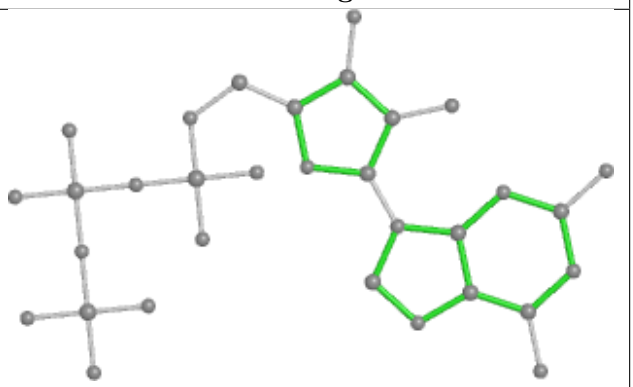
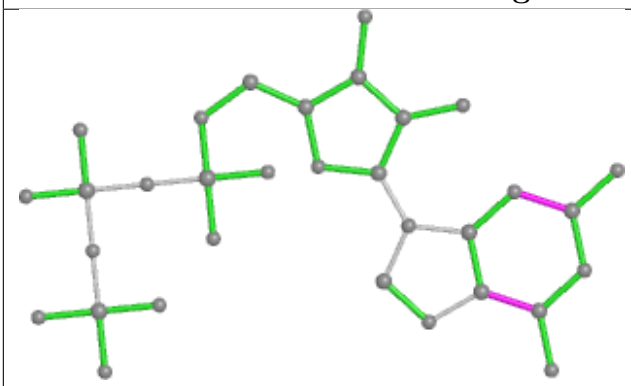


Rings

Ligand GTP UJ 501



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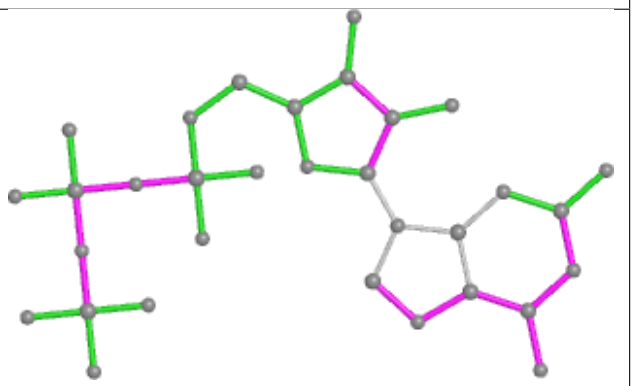

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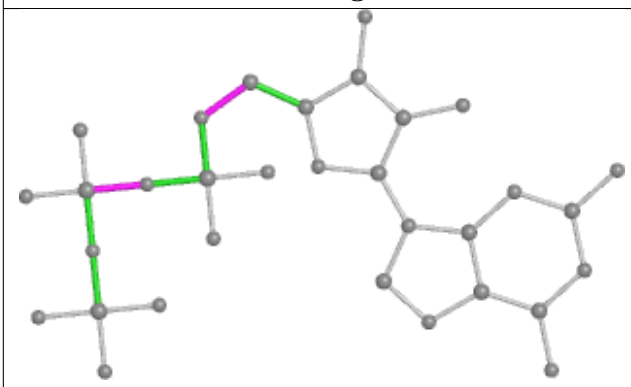

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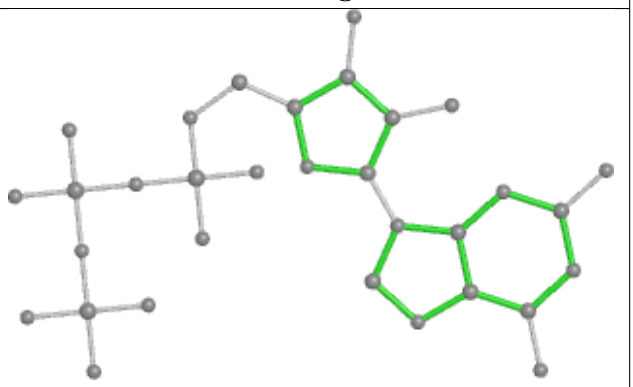

Rings

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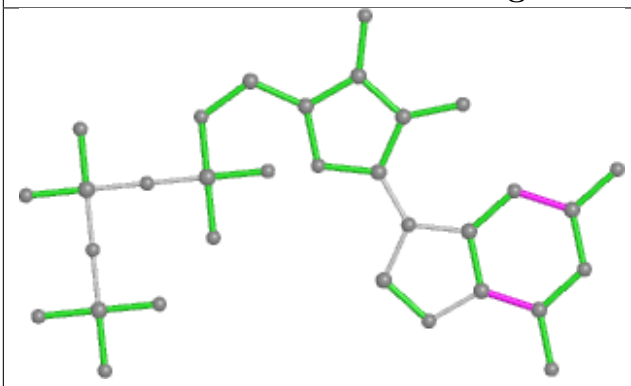

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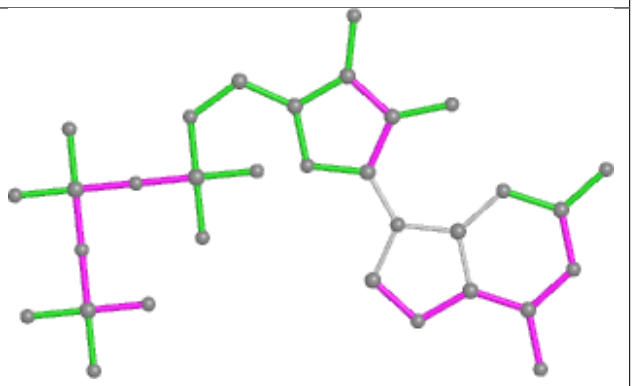

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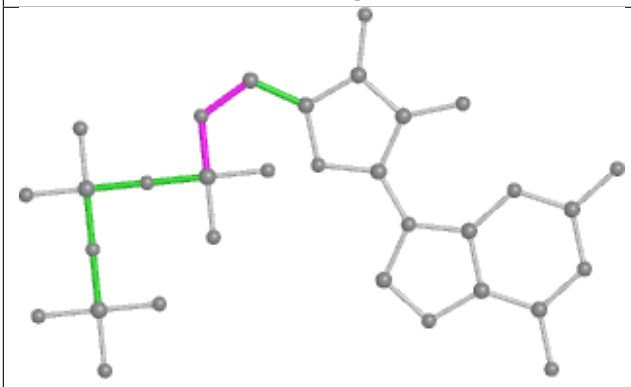

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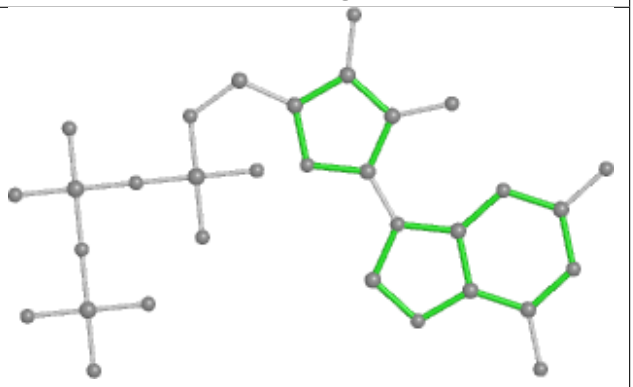

Rings

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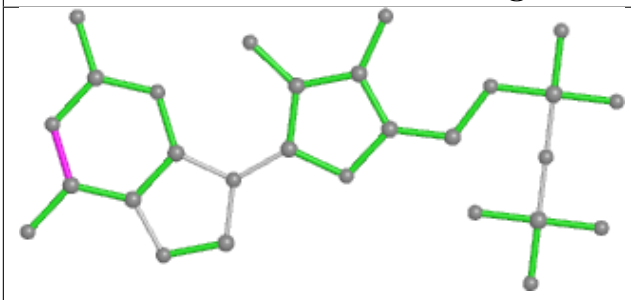

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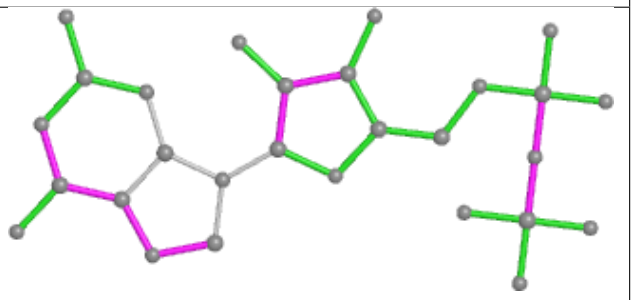

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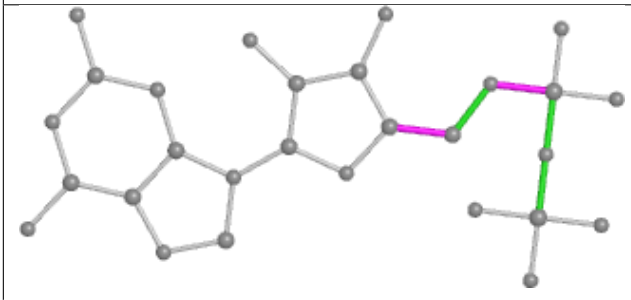

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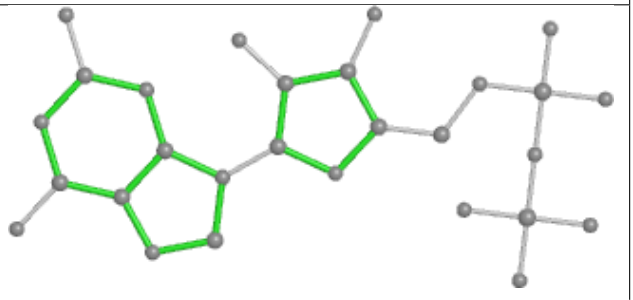

Rings

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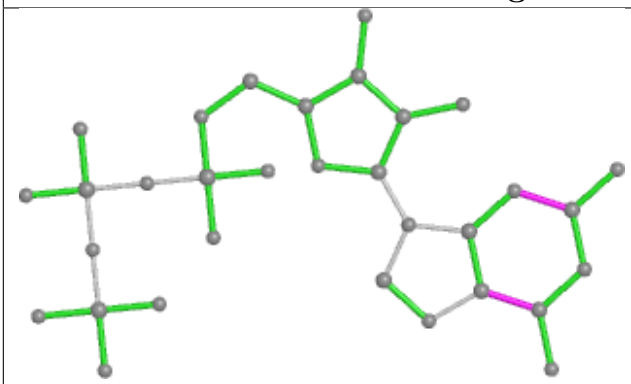

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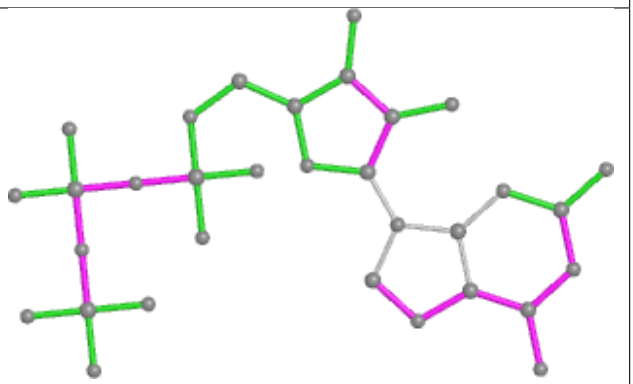

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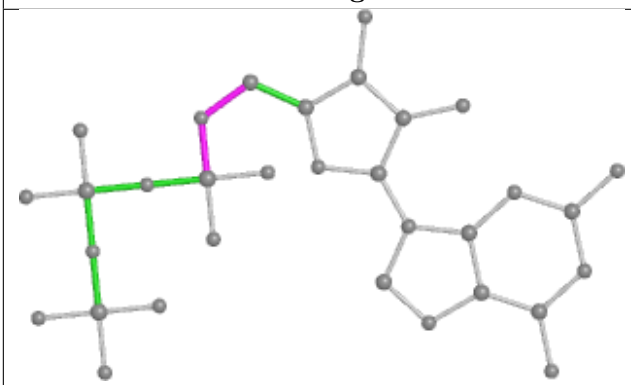

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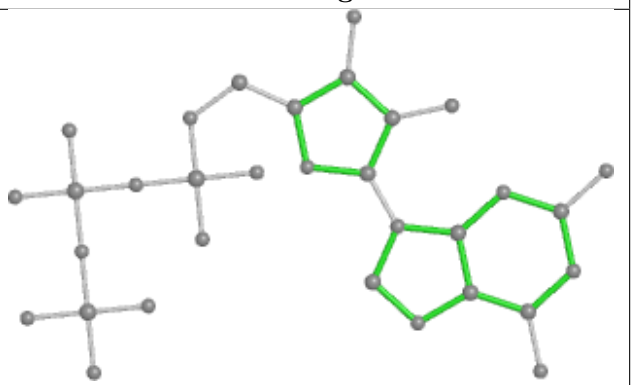

Rings

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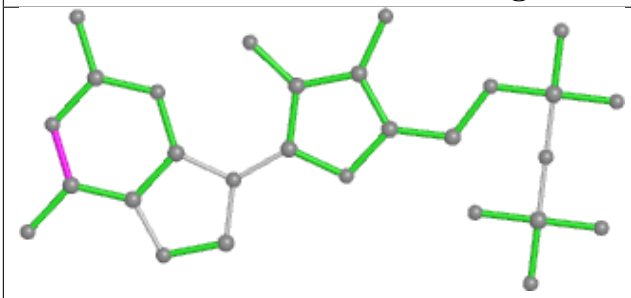

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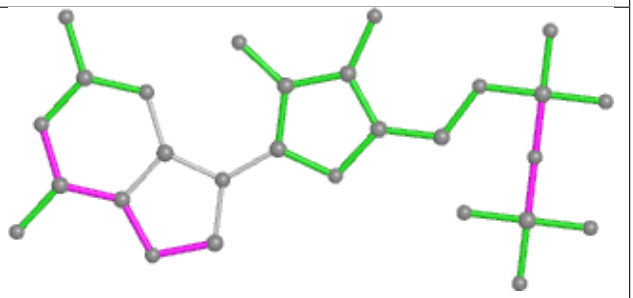

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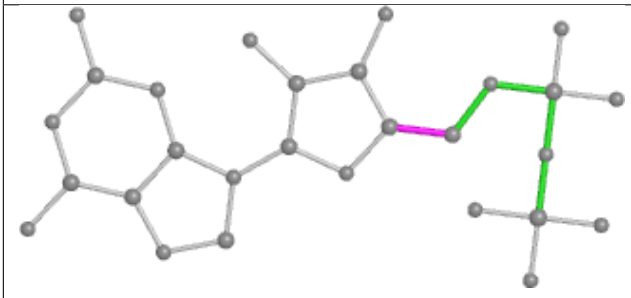

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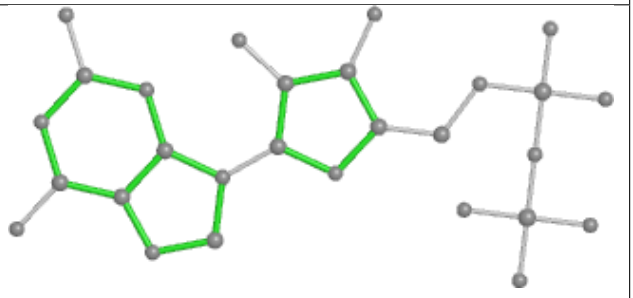

Rings

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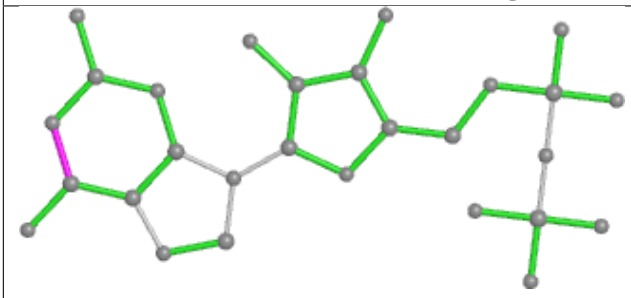

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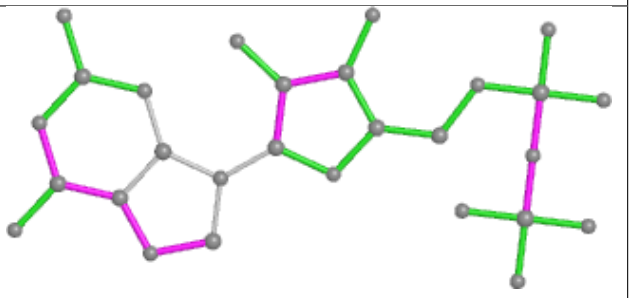

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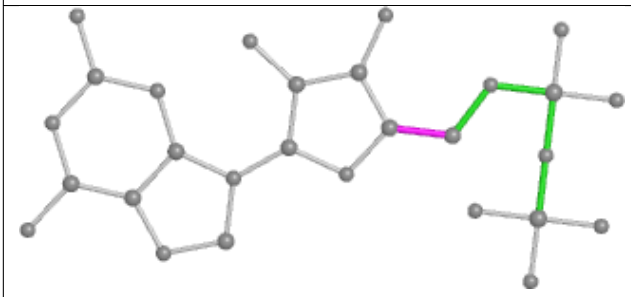

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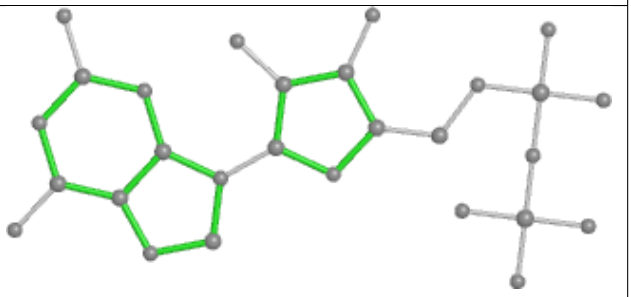

Rings

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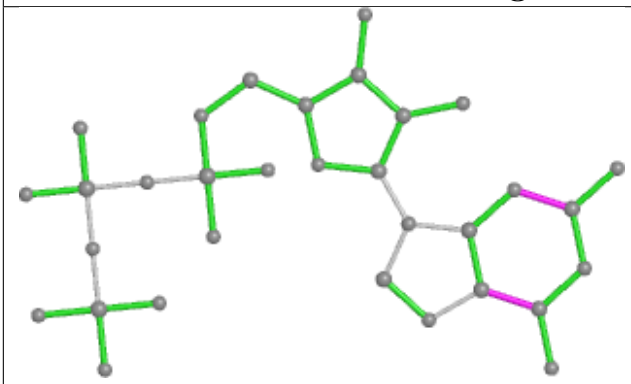

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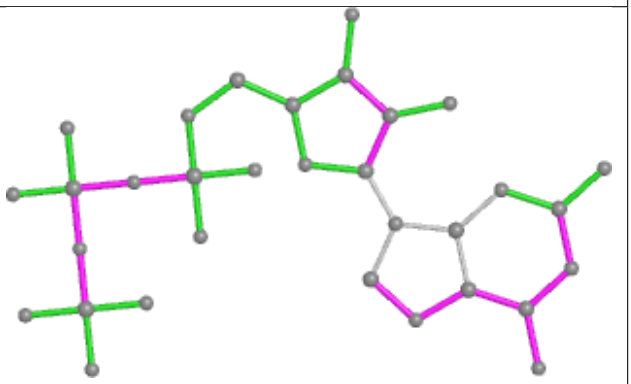

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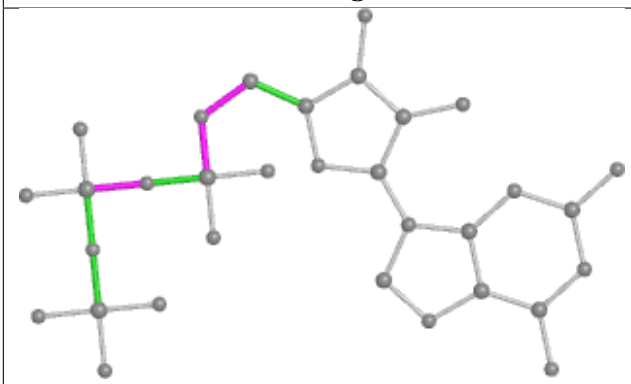

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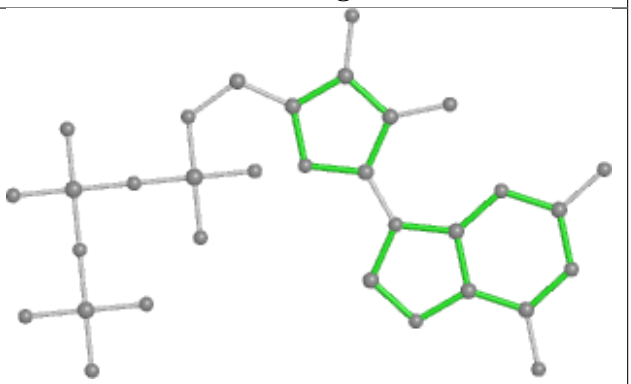

Rings

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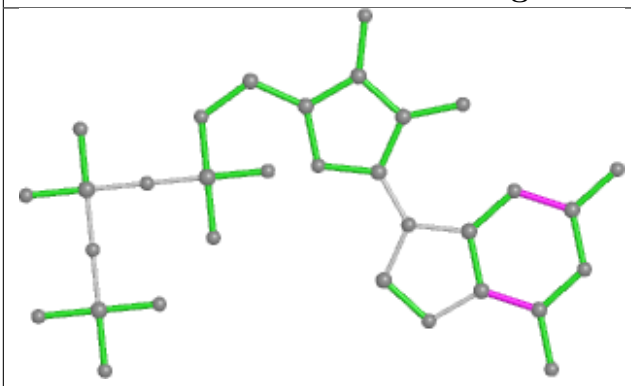

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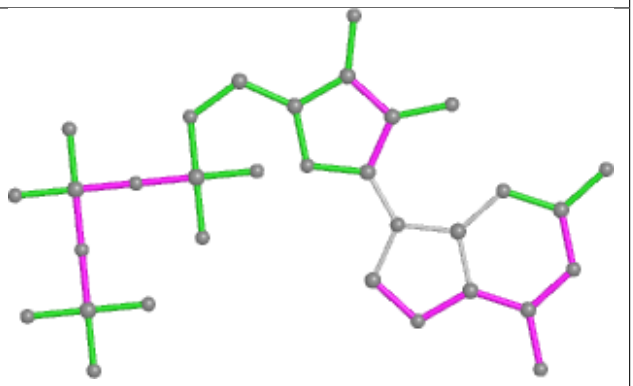

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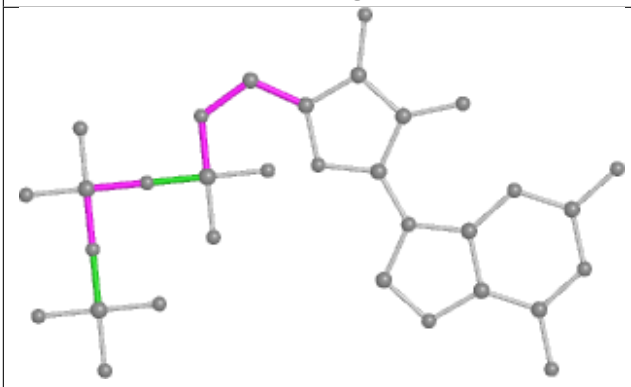

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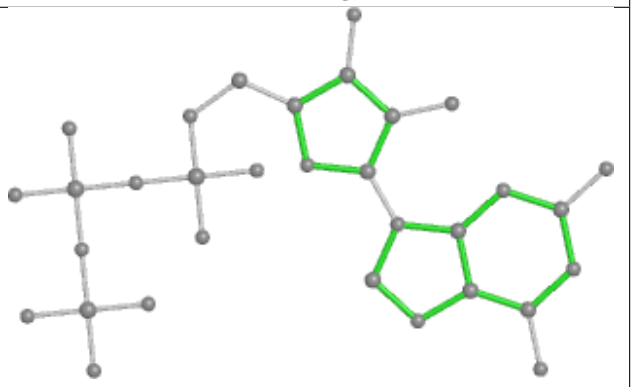

Rings

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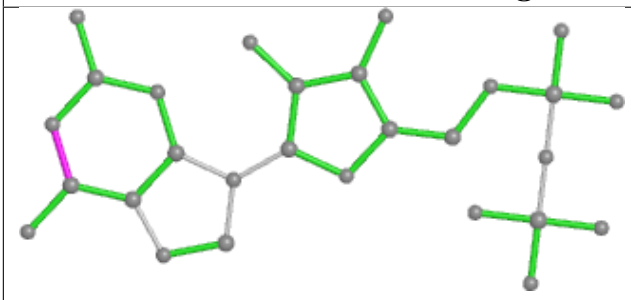

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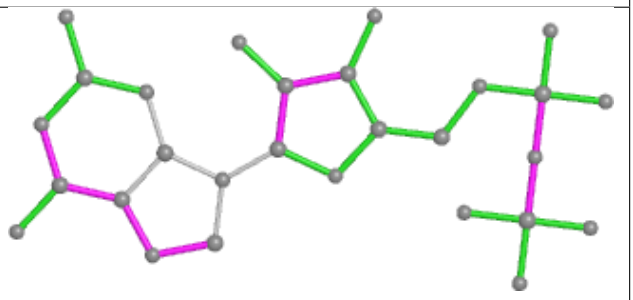

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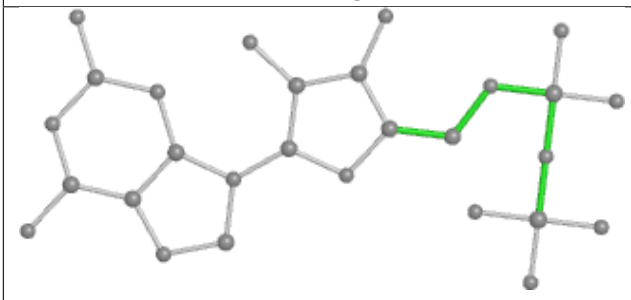

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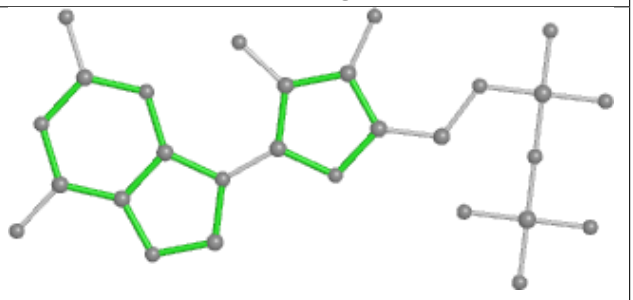

Rings

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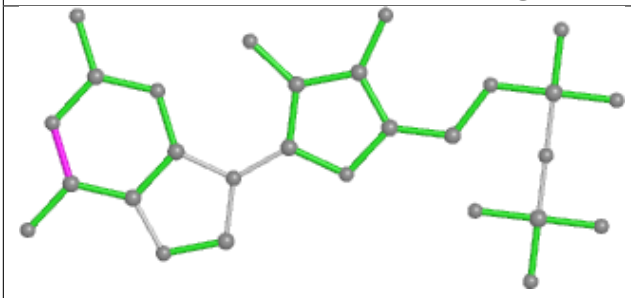
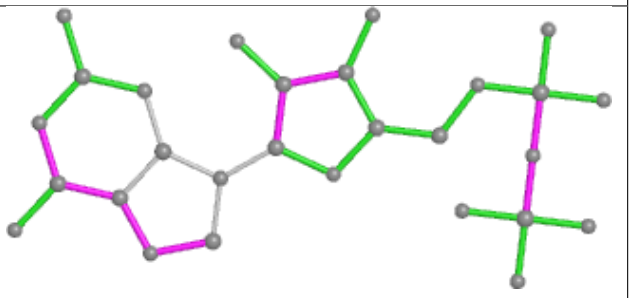
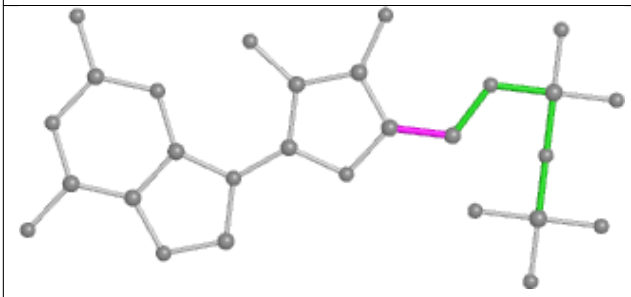
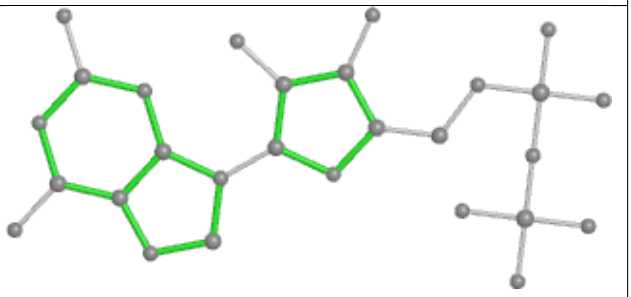
 Bond lengths	 Bond angles
 Torsions	 Rings

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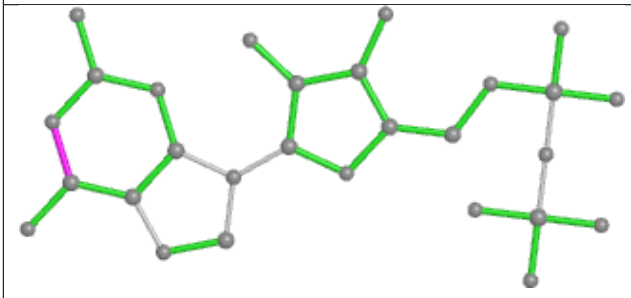
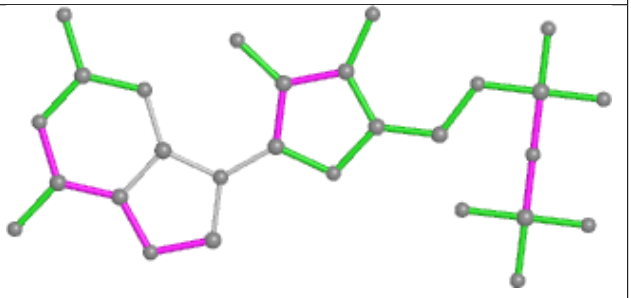
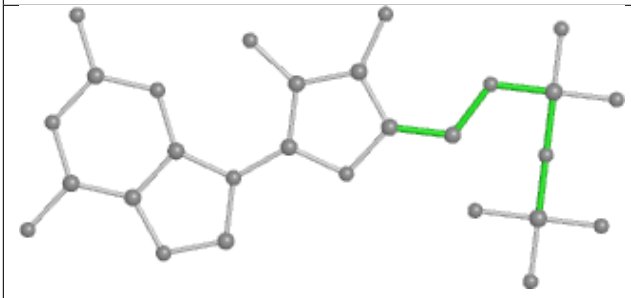
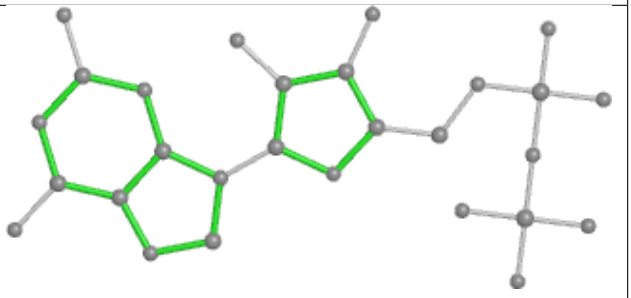
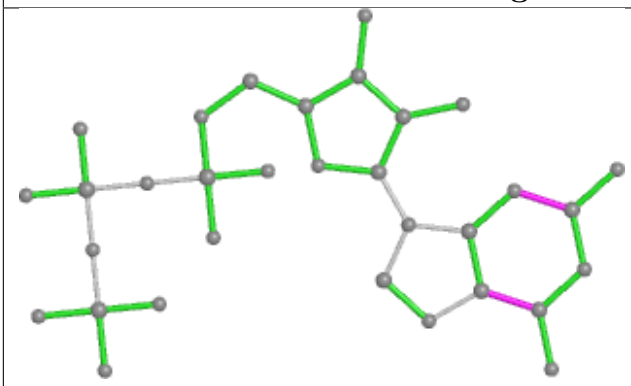
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GTP ZH 501



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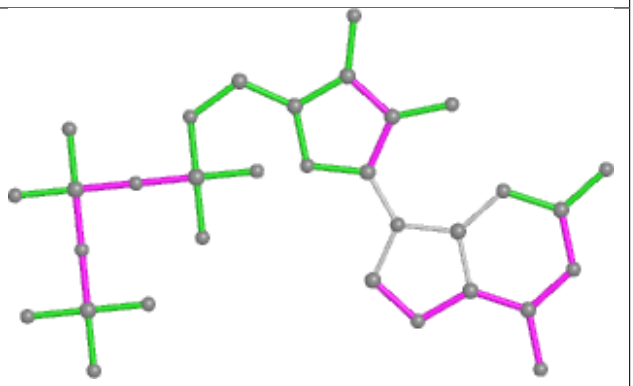

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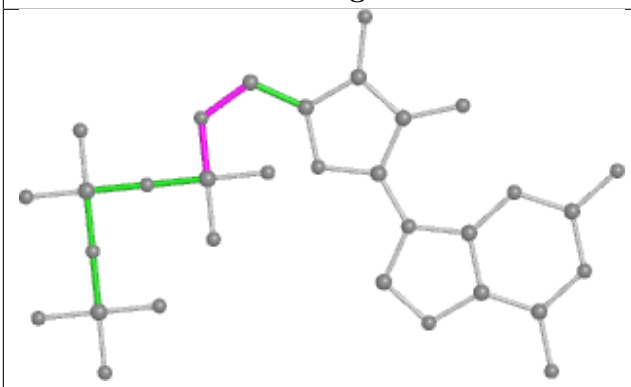

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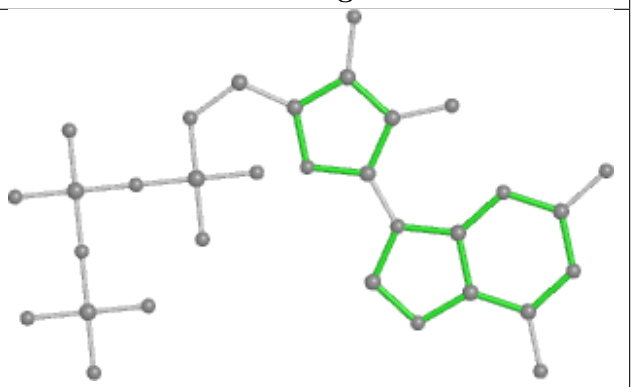
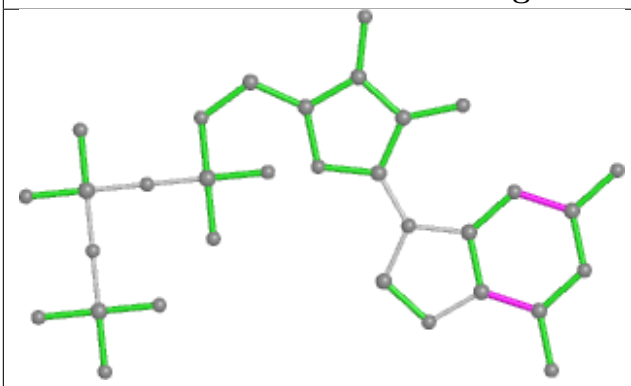


Rings

Ligand GTP PL 501



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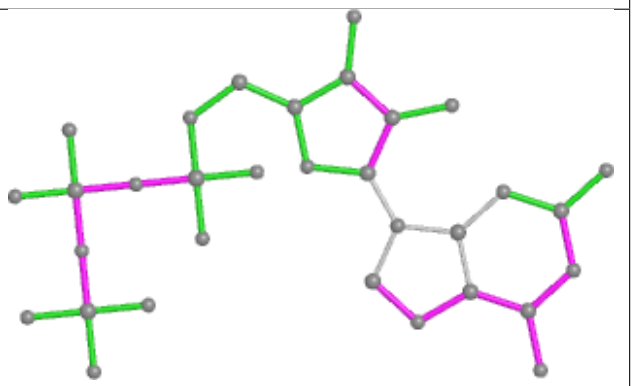

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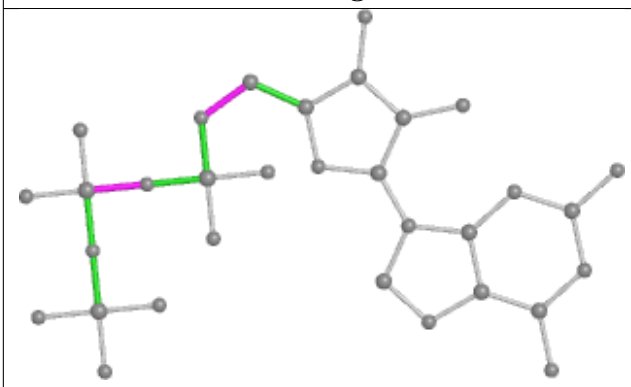

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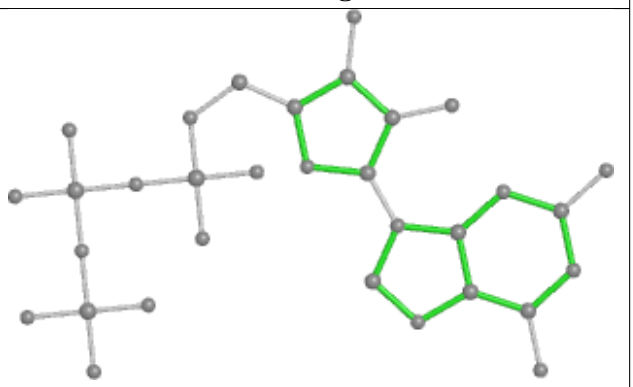
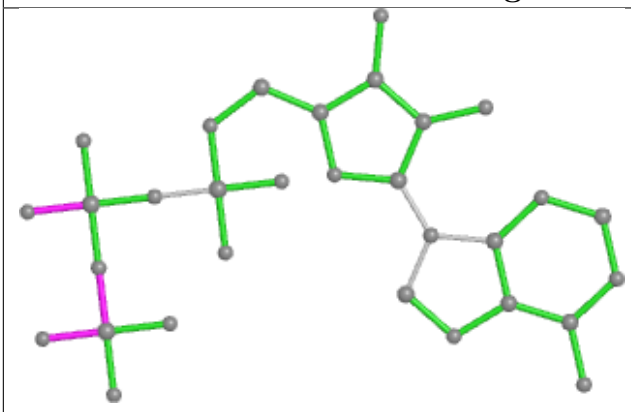


Rings

Ligand ANP 1B 2602



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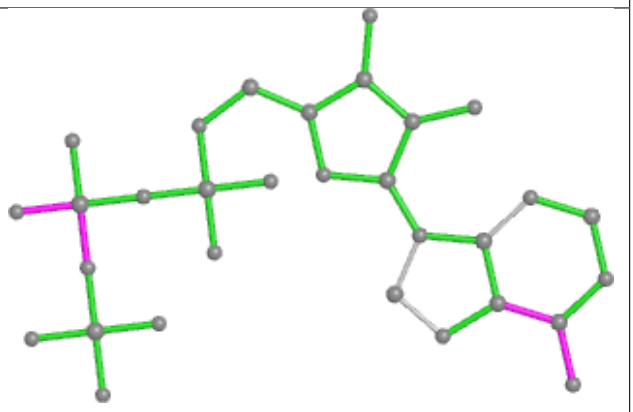

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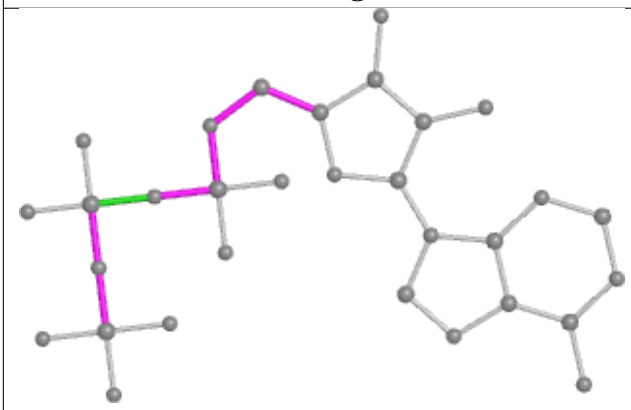

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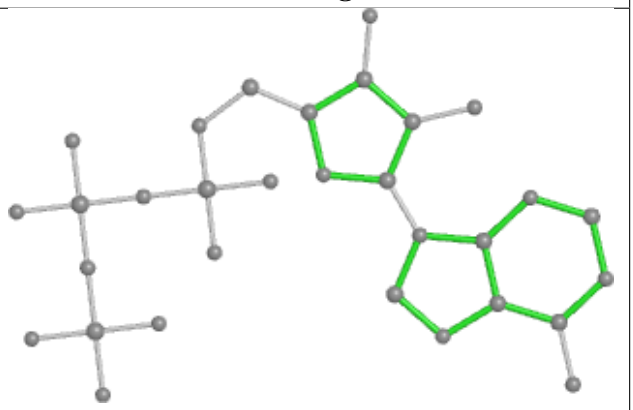

Rings

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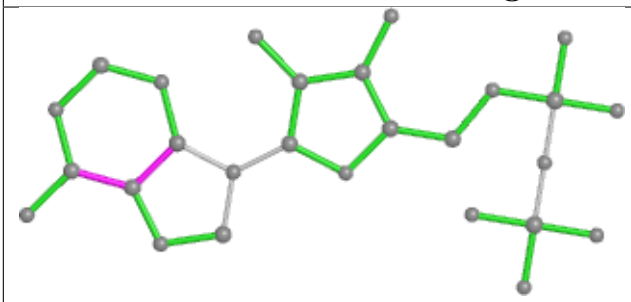

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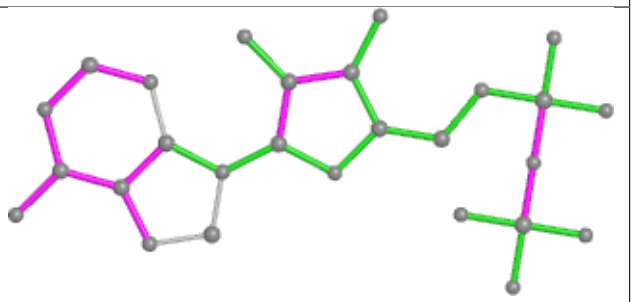

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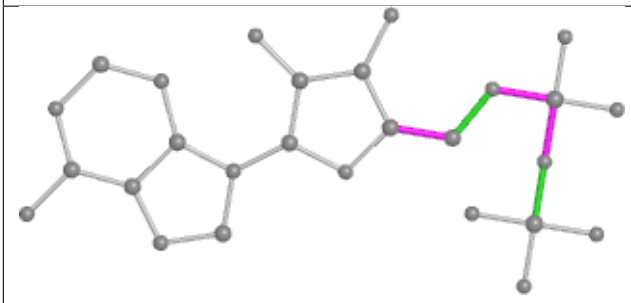

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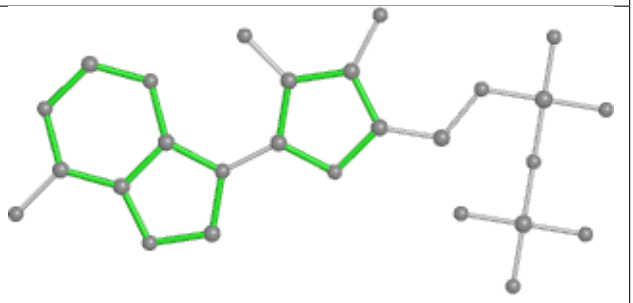
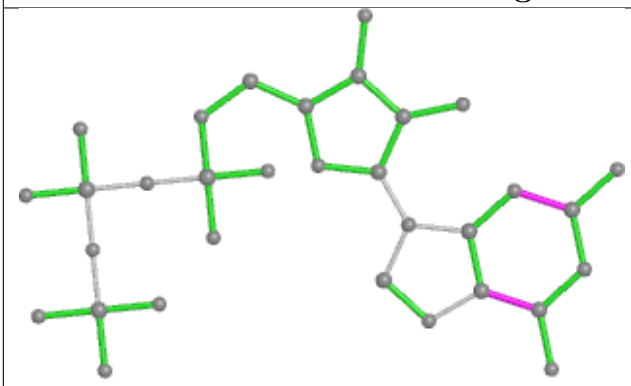


Rings

Ligand GTP SF 501



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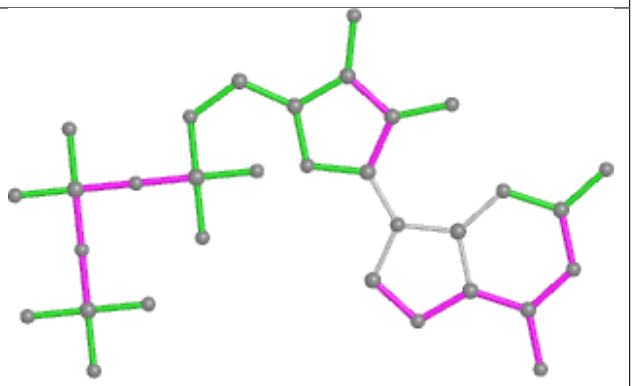

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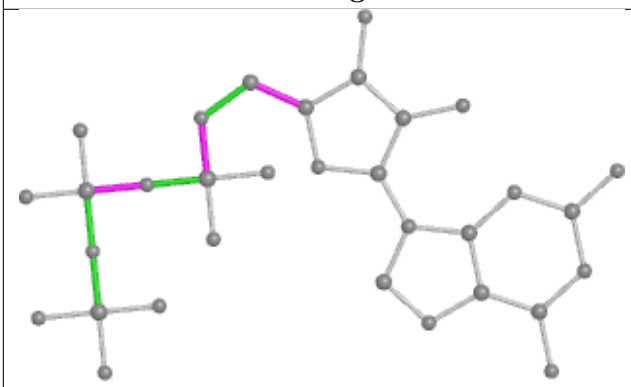

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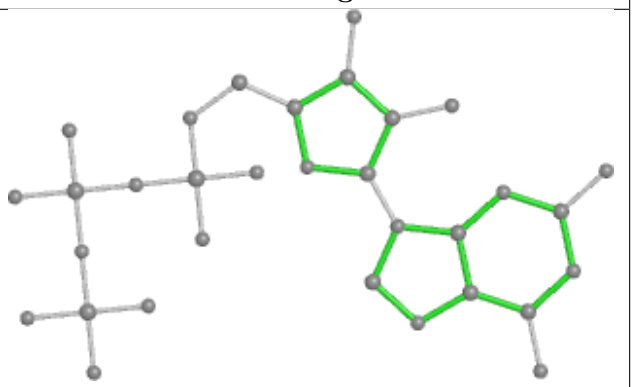

Rings

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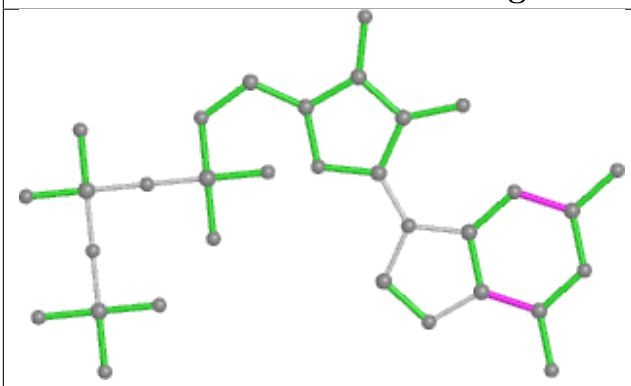

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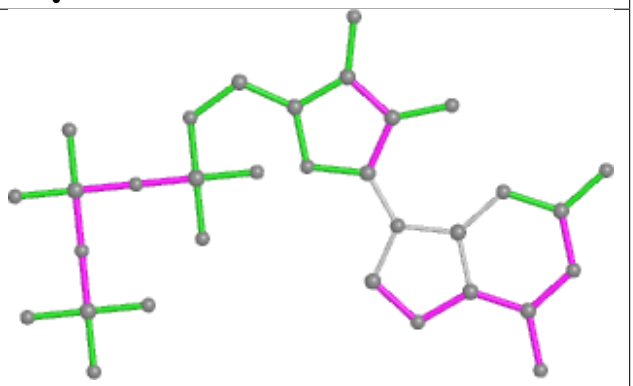

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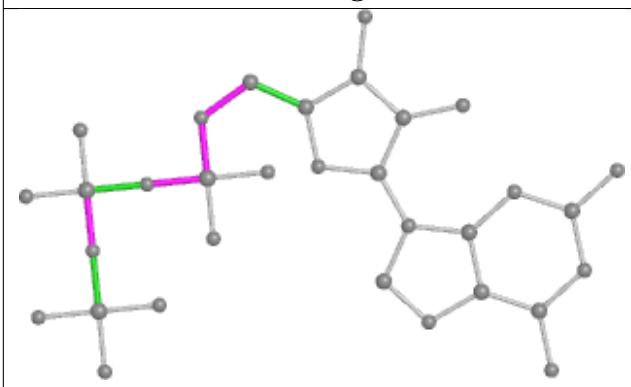

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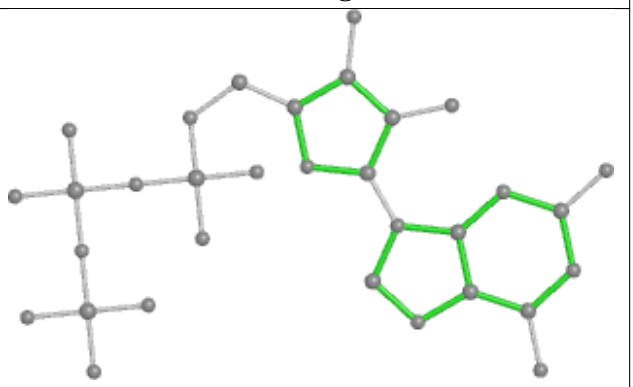
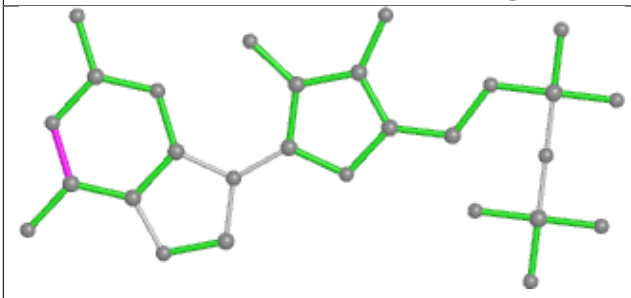


Rings

Ligand GDP YM 501



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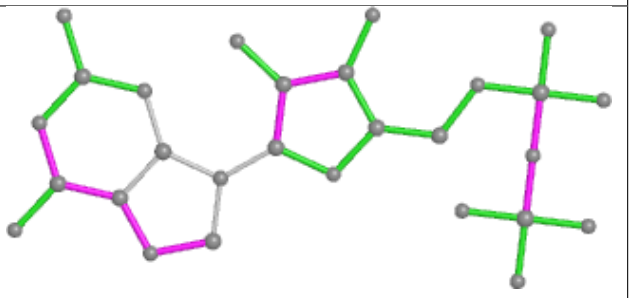

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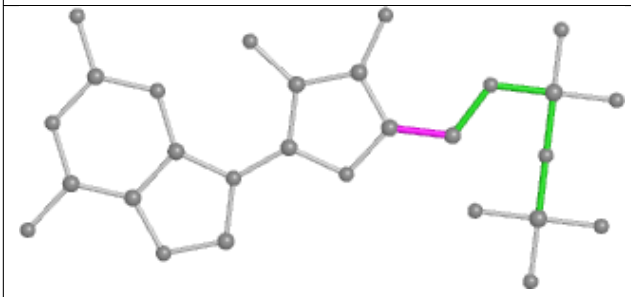

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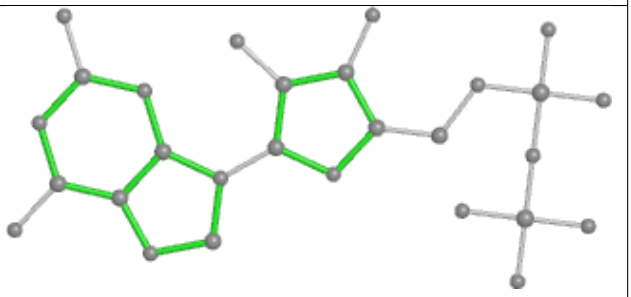

Rings

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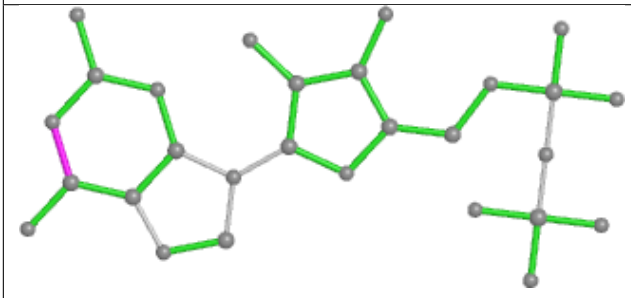

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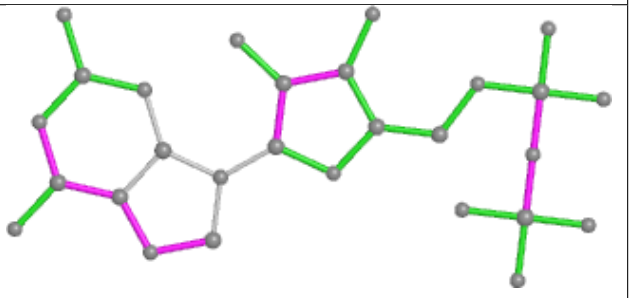

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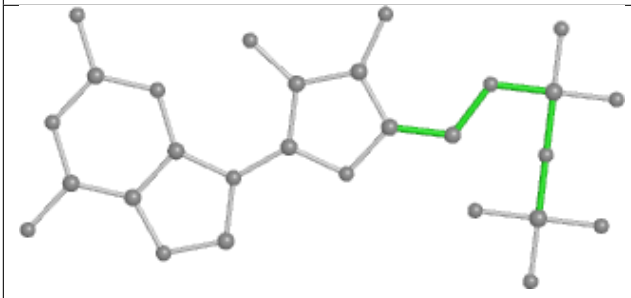

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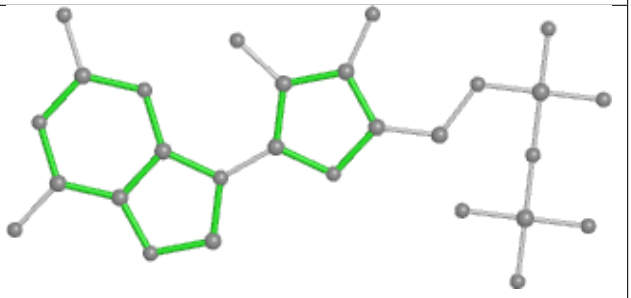

Rings

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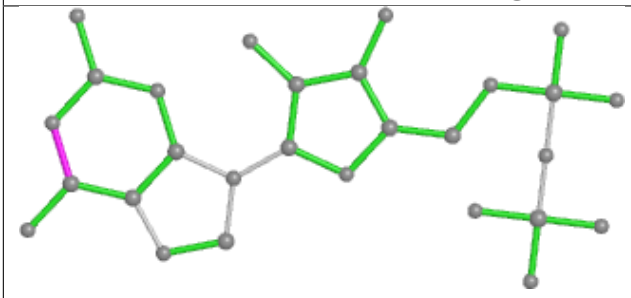

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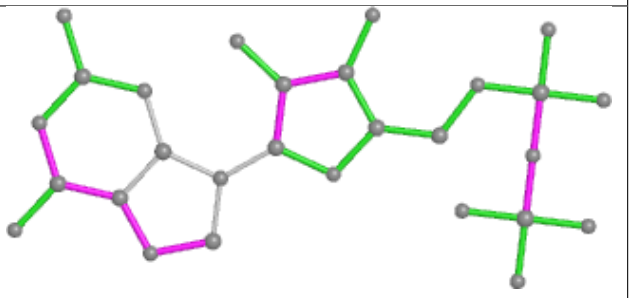

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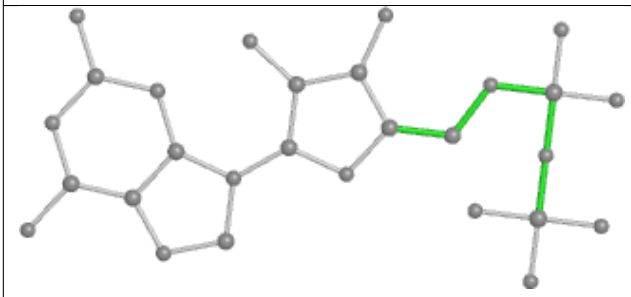

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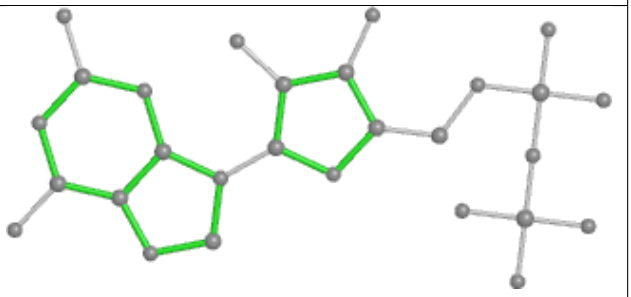
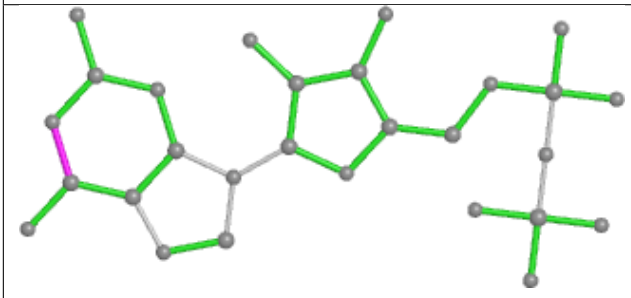


Rings

Ligand GDP XA 501



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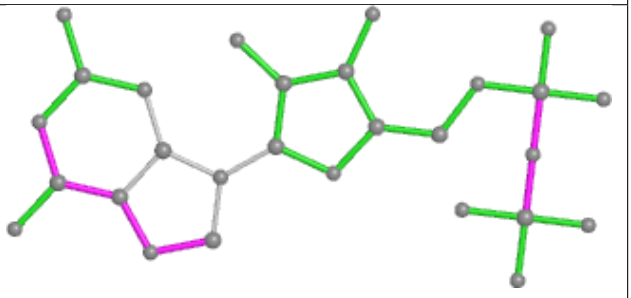

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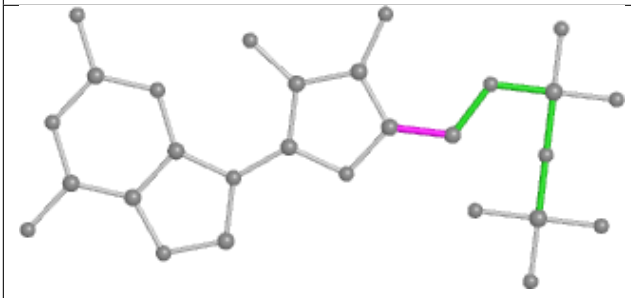

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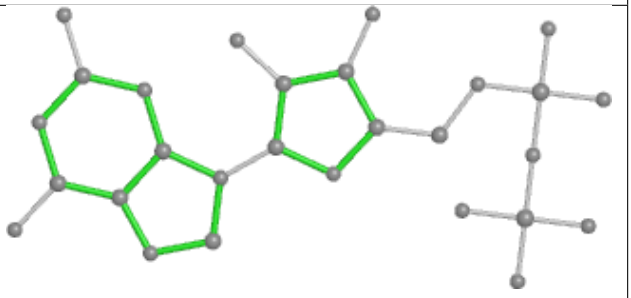
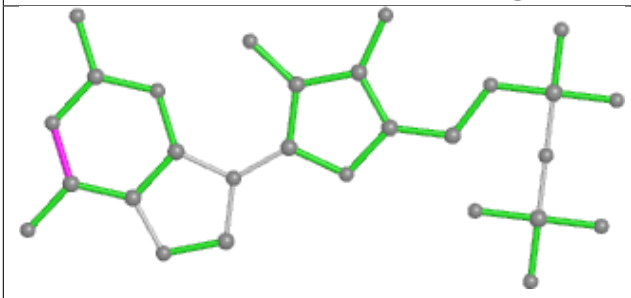


Rings

Ligand GDP VE 501



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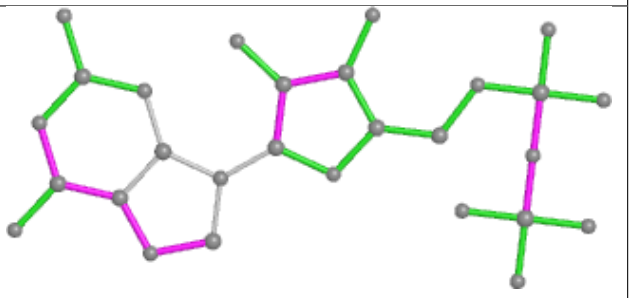

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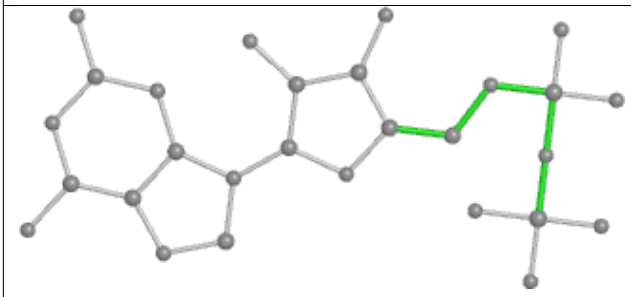

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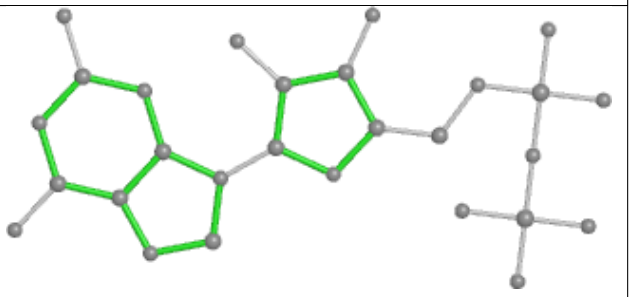
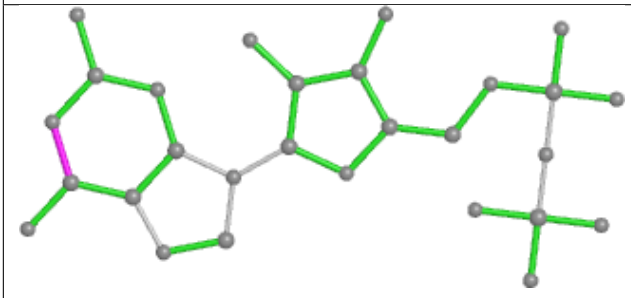


Rings

Ligand GDP RE 501



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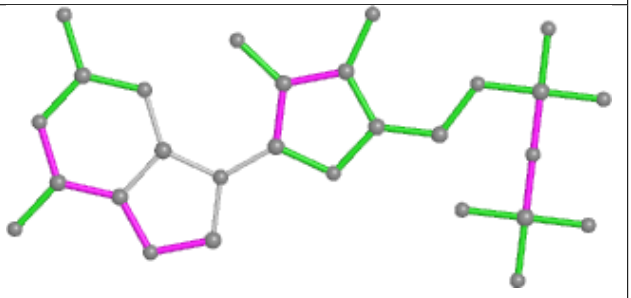

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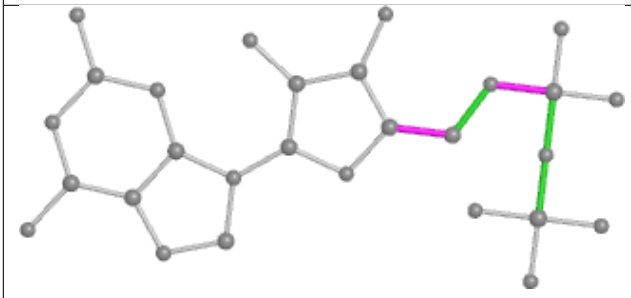

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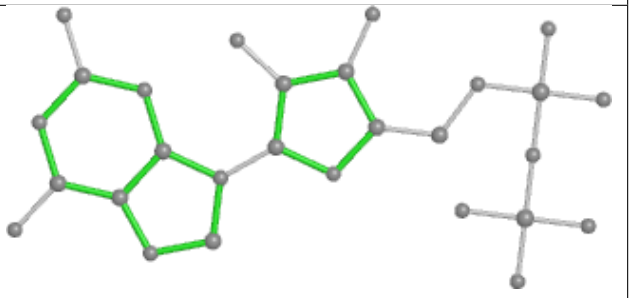
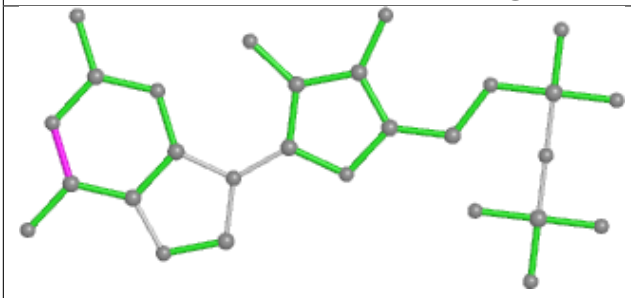


Rings

Ligand GDP YG 501



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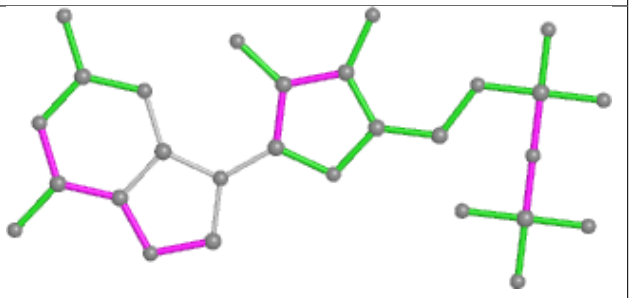

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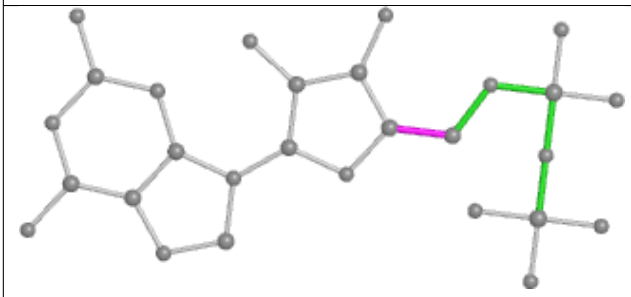
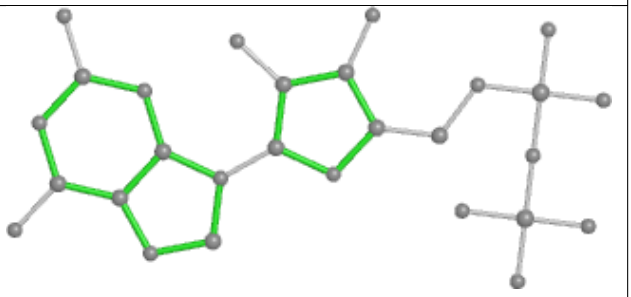
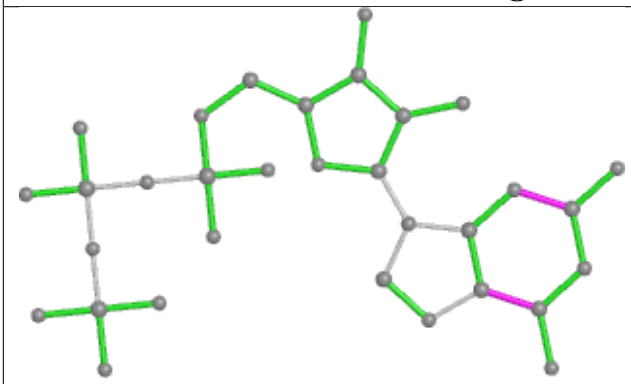


Torsions



Rings

Ligand GTP QH 501



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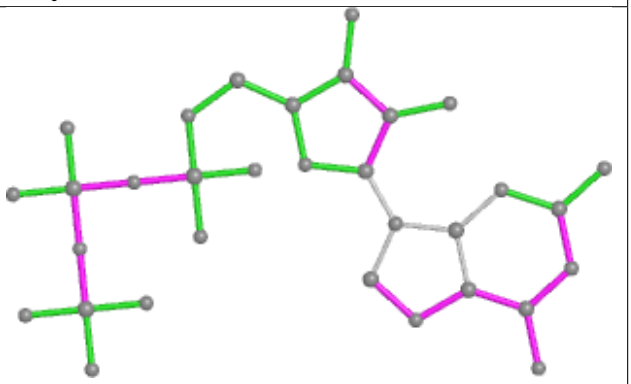
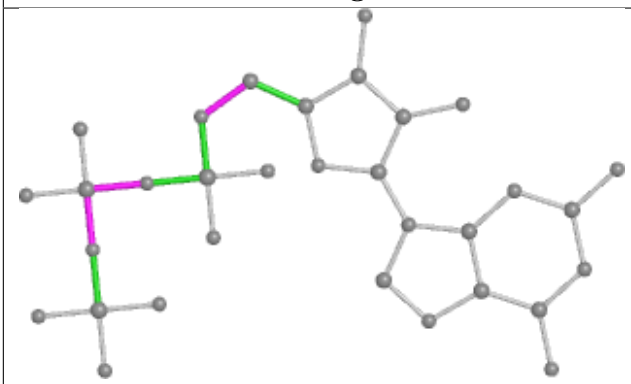


Bond angles



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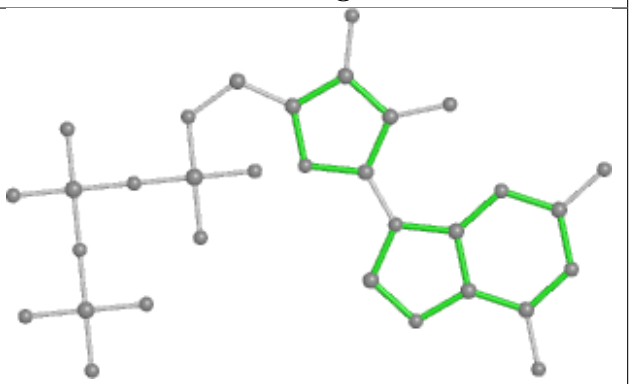
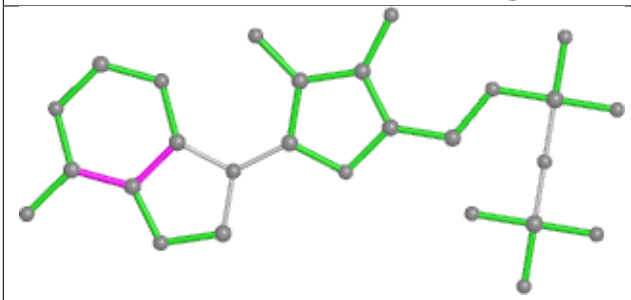


Rings

Ligand ADP 1C 2601



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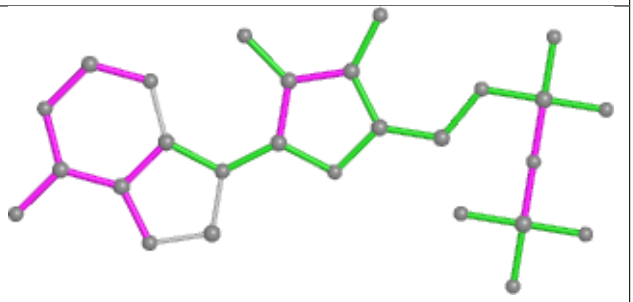

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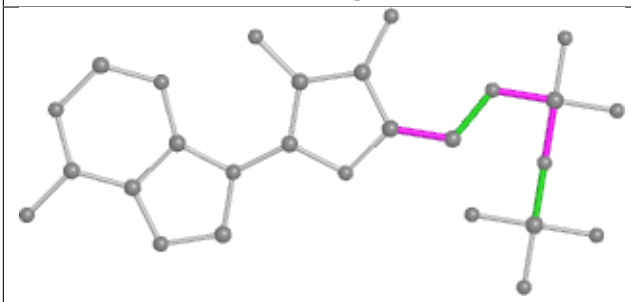

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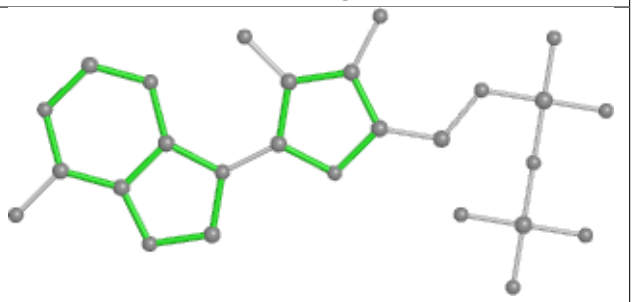
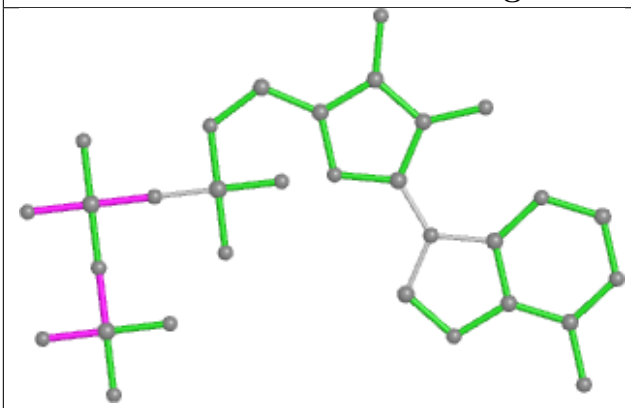


Rings

Ligand ANP 1C 2602



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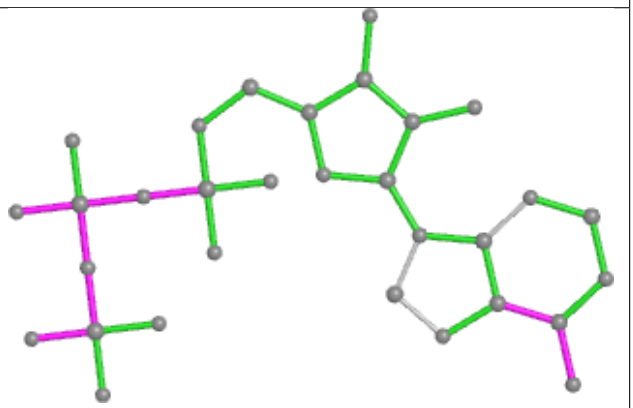

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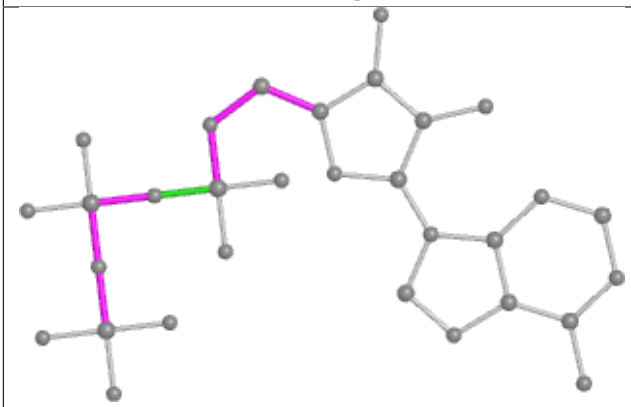

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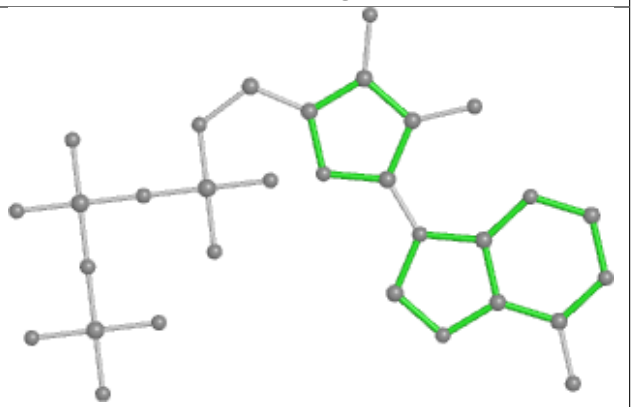
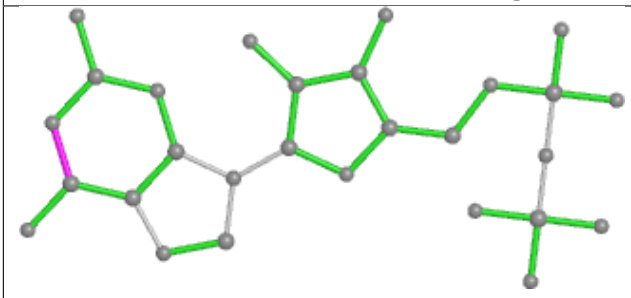


Rings

Ligand GDP RO 501



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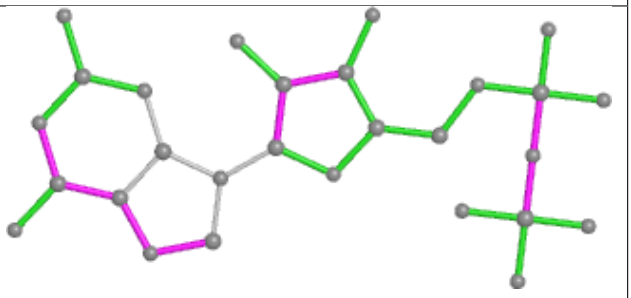

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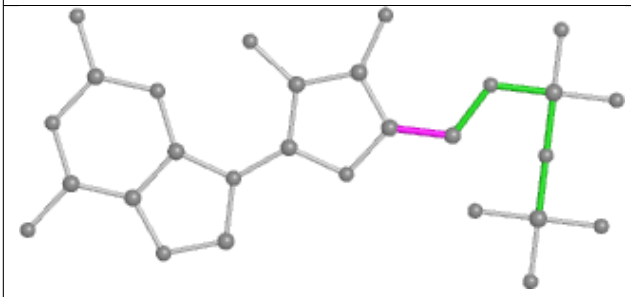

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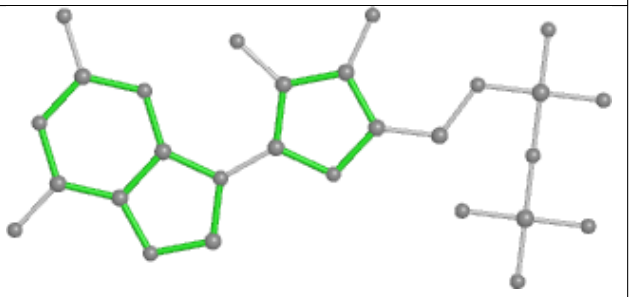
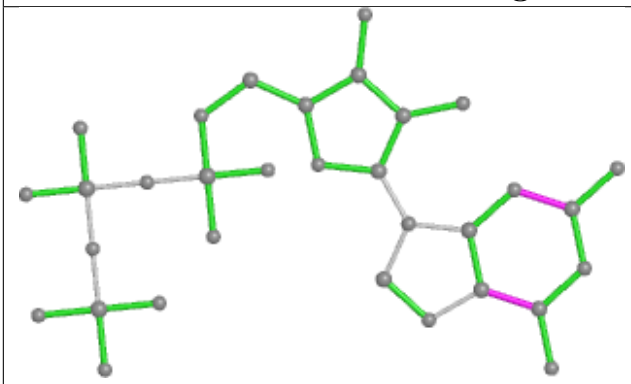


Rings

Ligand GTP SN 501



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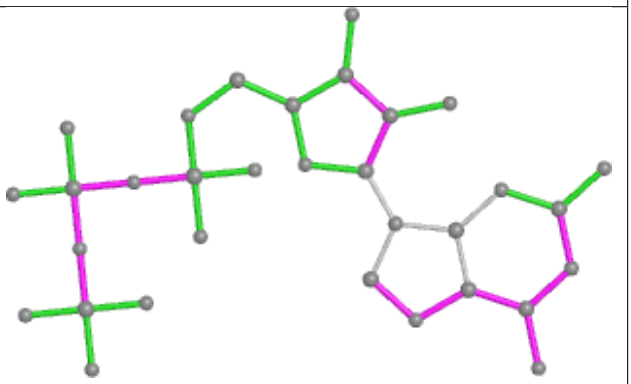
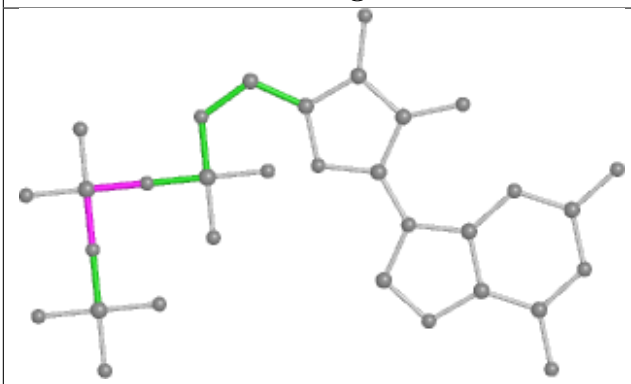


Bond angles



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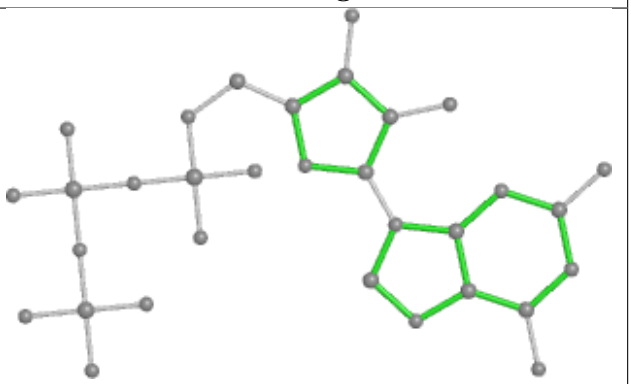
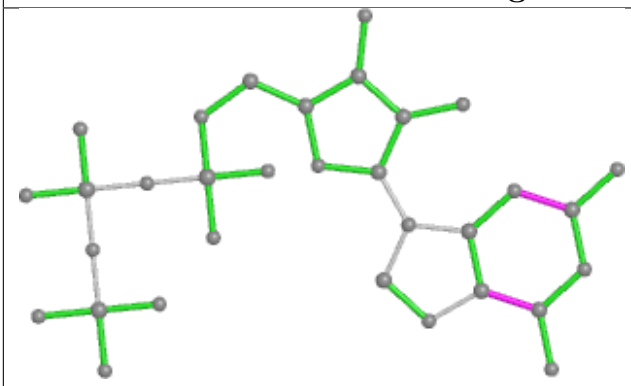


Rings

Ligand GTP QD 501



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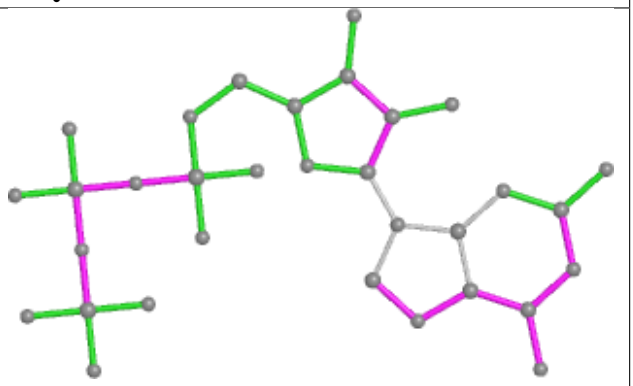

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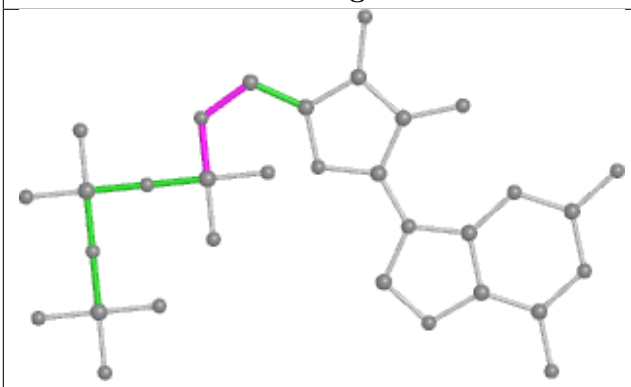

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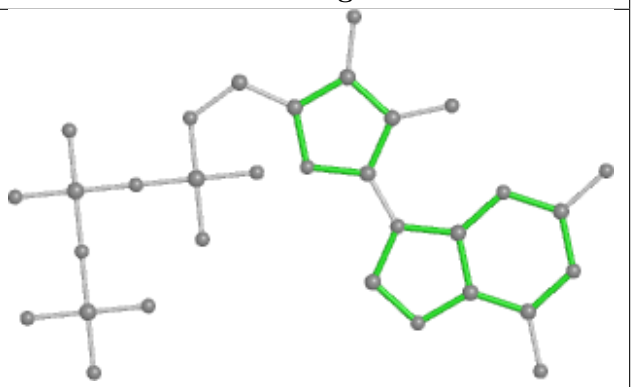
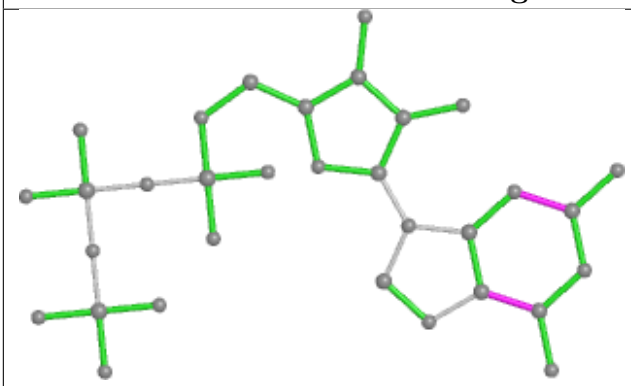


Rings

Ligand GTP UF 501



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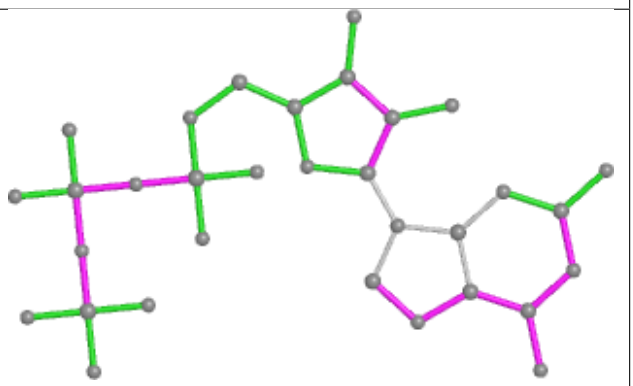

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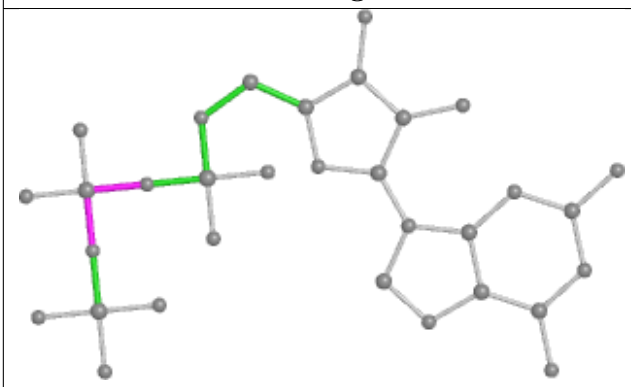

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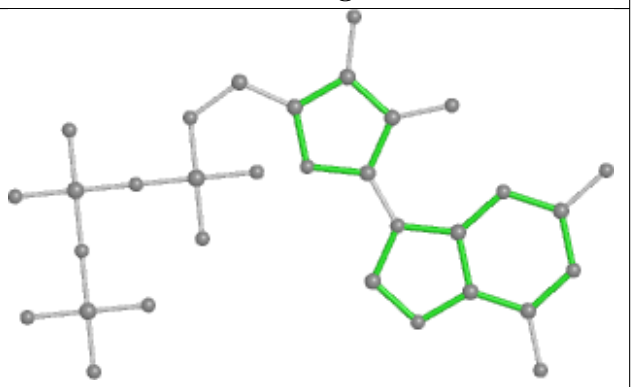
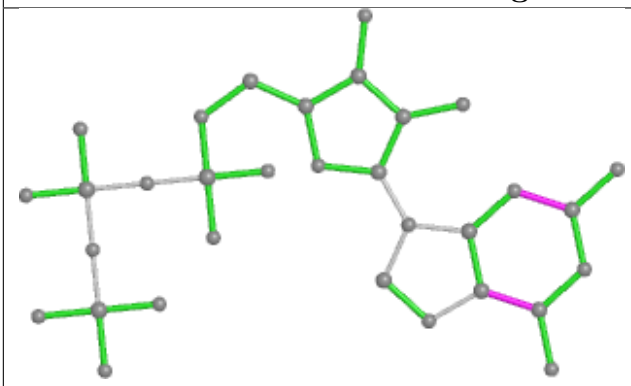


Rings

Ligand GTP ZD 501



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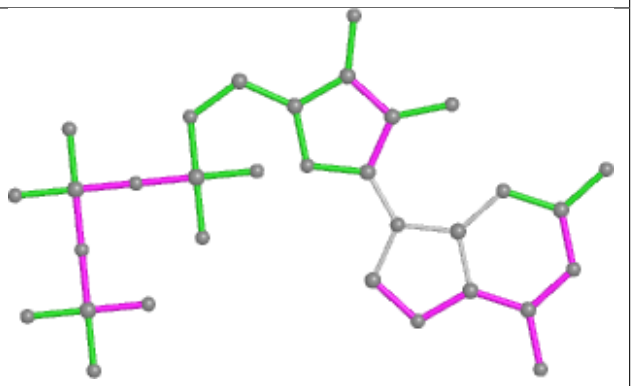

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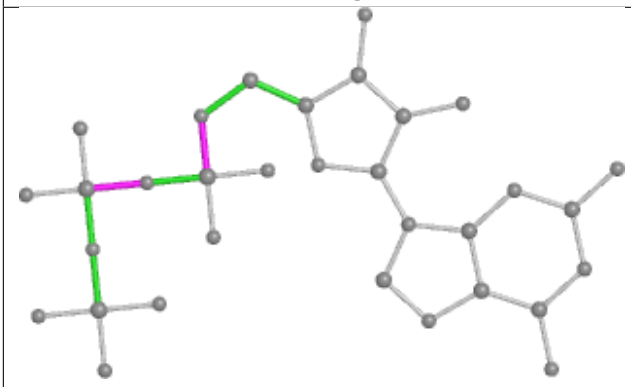

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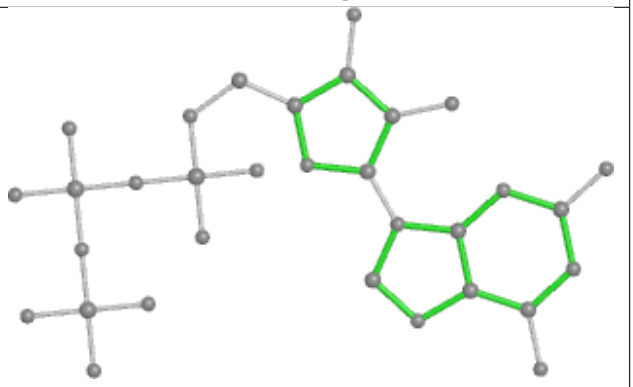
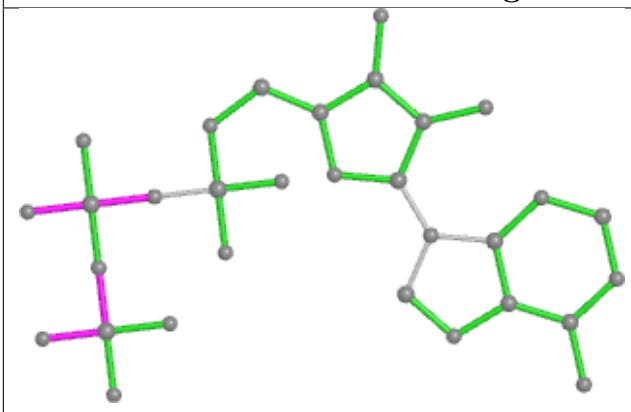


Rings

Ligand ANP 1D 2602



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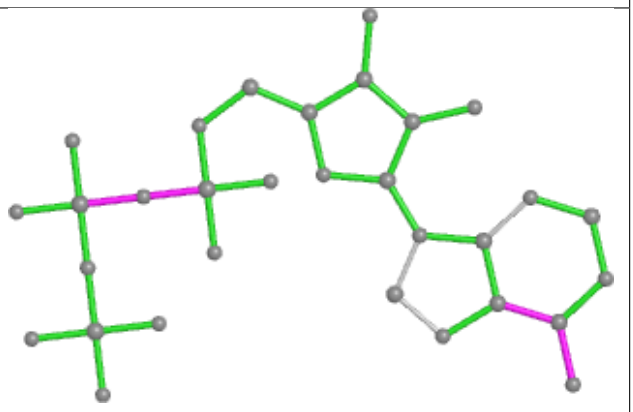

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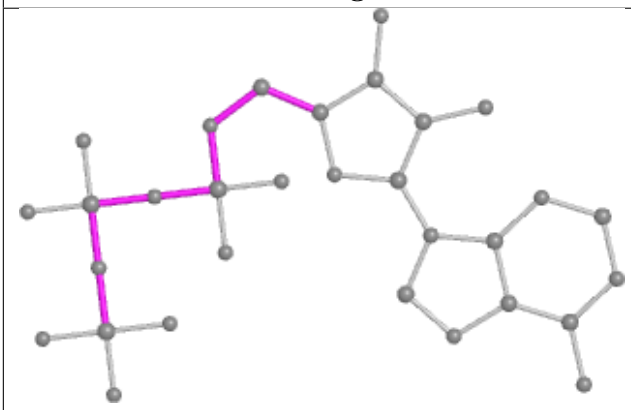

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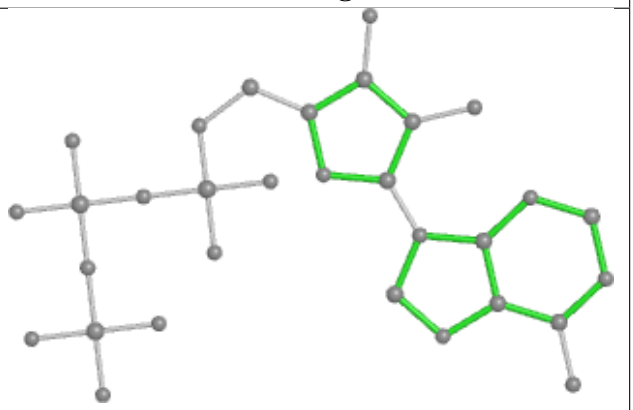
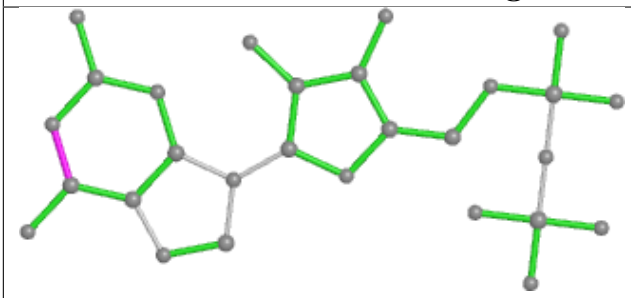


Rings

Ligand GDP TM 502



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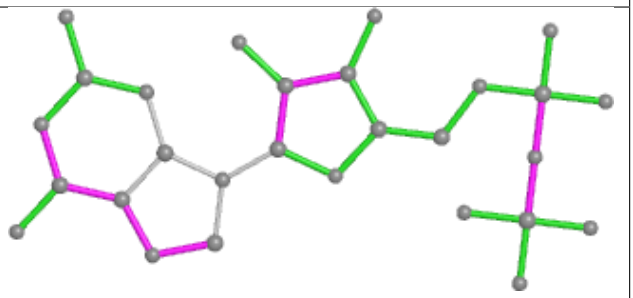

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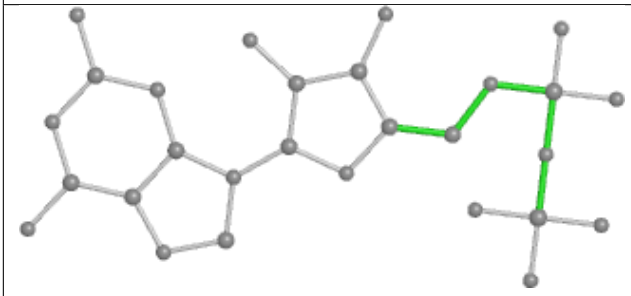

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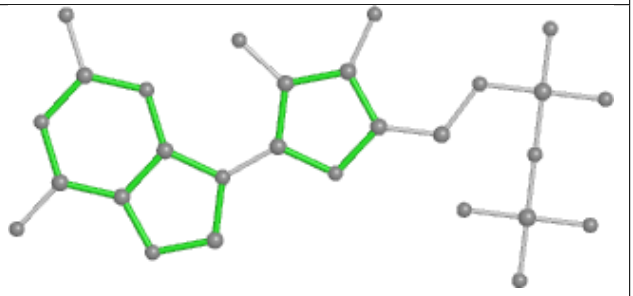
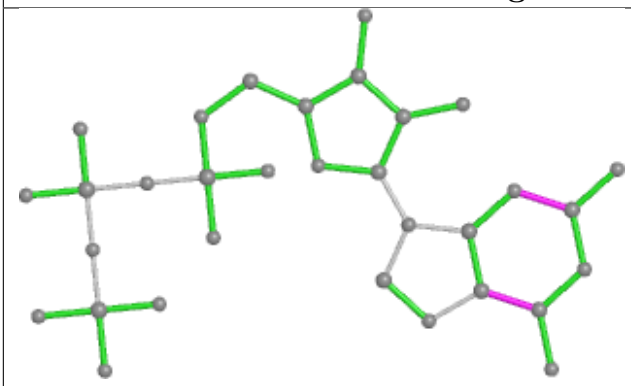


Rings

Ligand GTP VN 501



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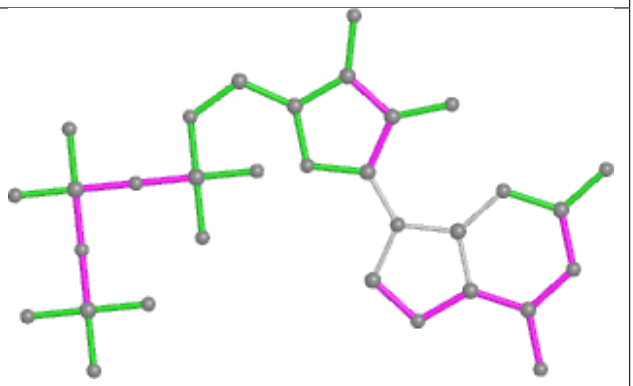
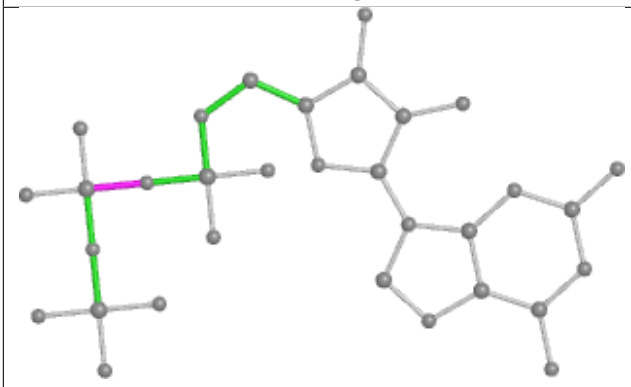


Bond angles



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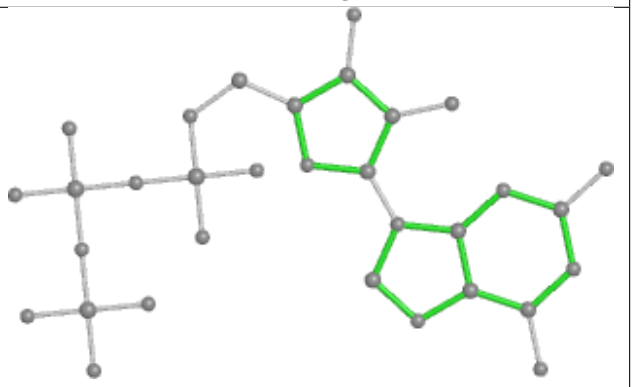
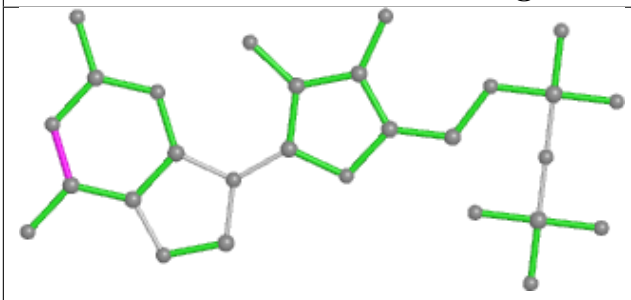


Rings

Ligand GDP TI 501



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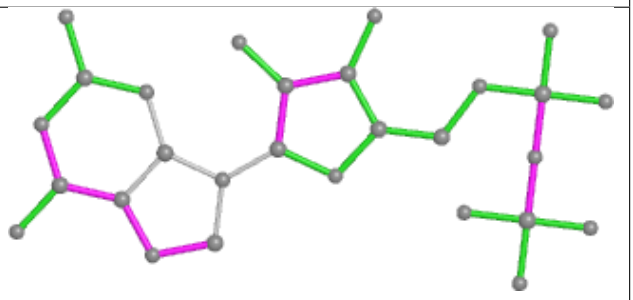

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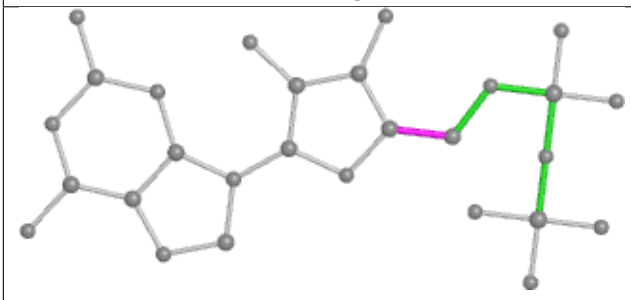

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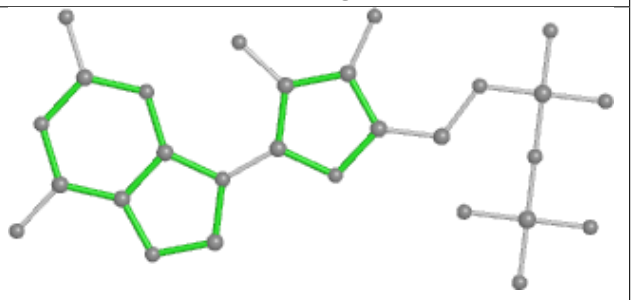
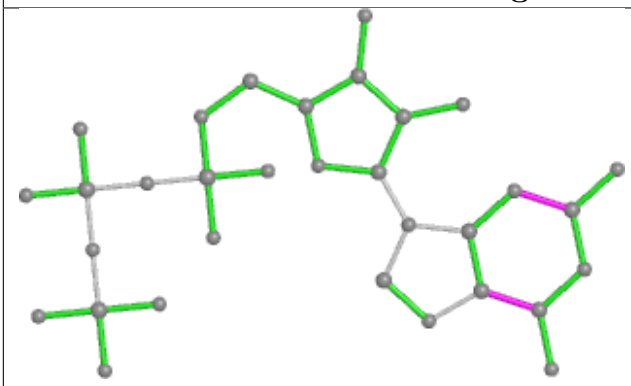


Rings

Ligand GTP TP 501



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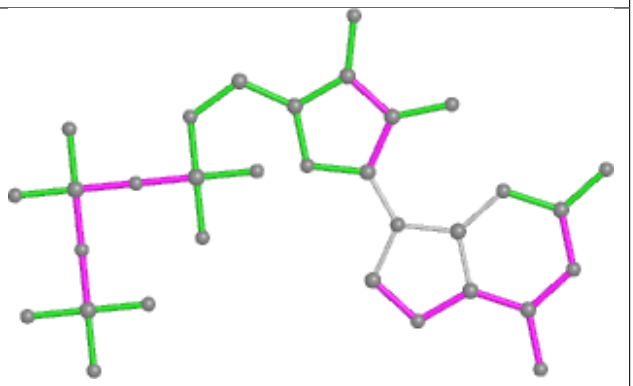
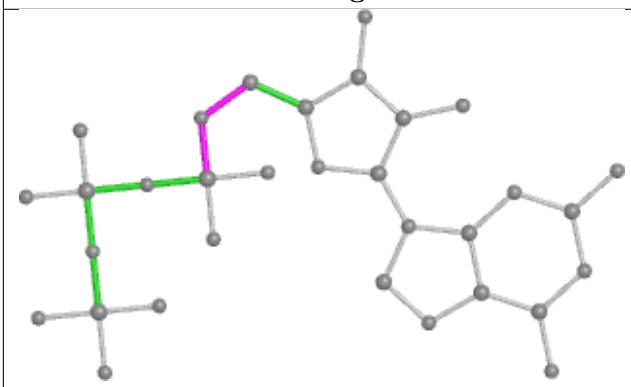


Bond angles



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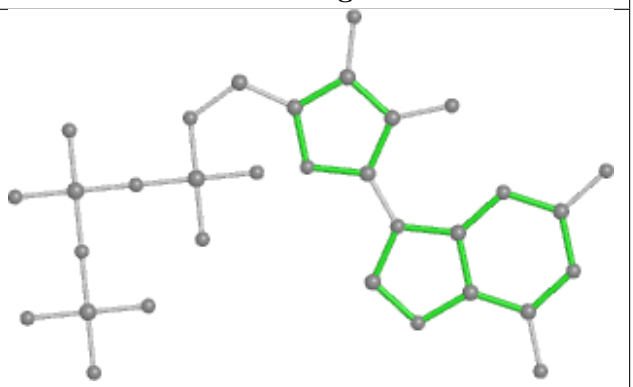
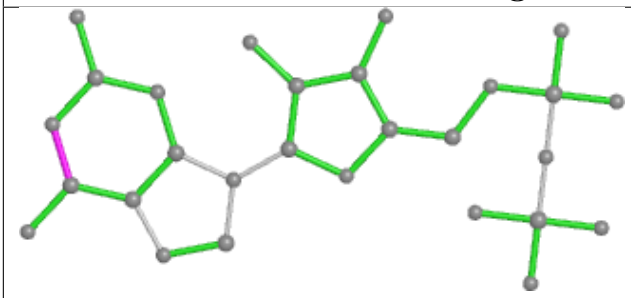


Rings

Ligand GDP PO 501



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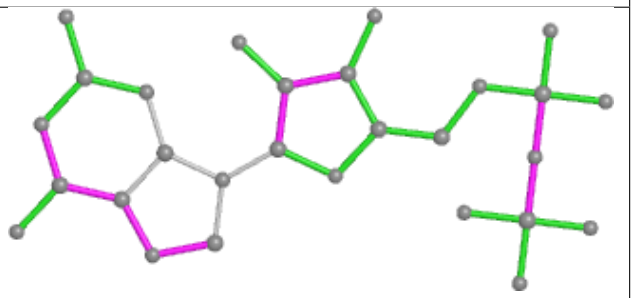
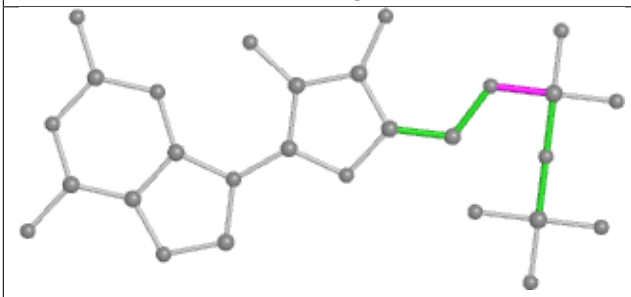
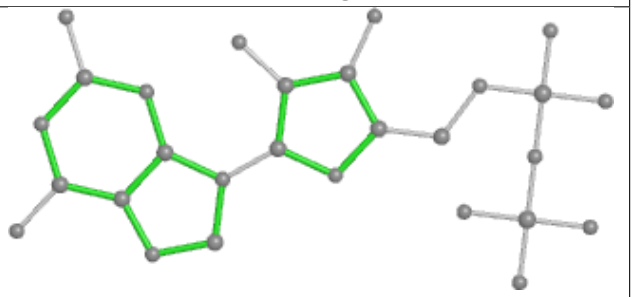


Bond angles

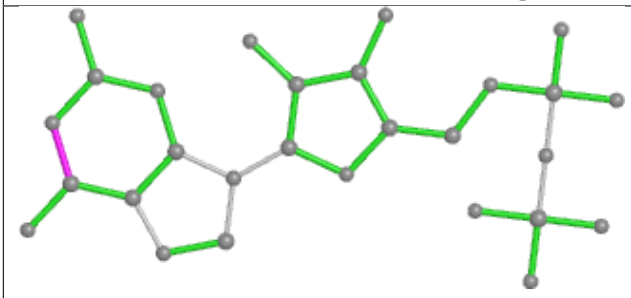


Torsions



Rings

Ligand GDP UI 501



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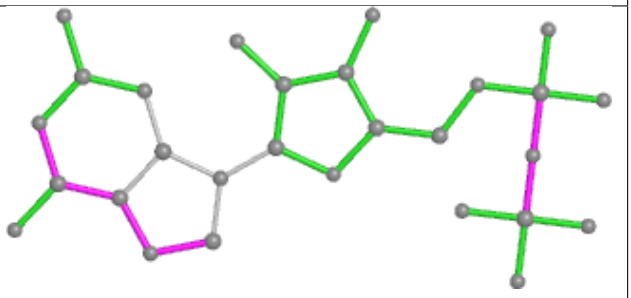

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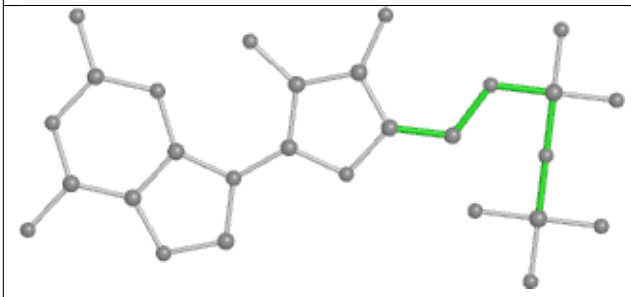

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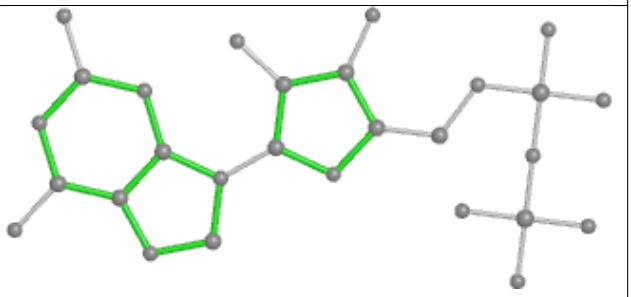
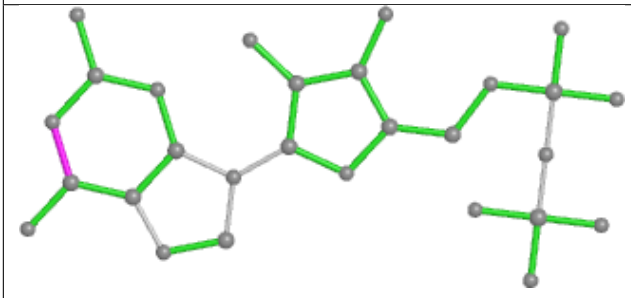


Rings

Ligand GDP NG 502



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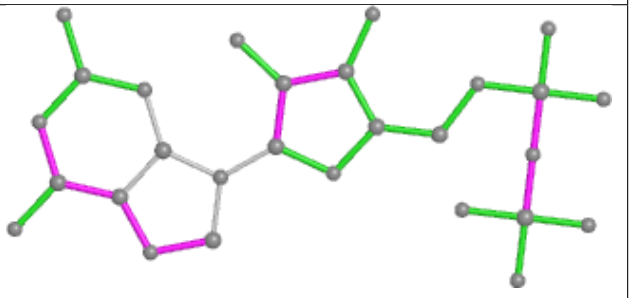

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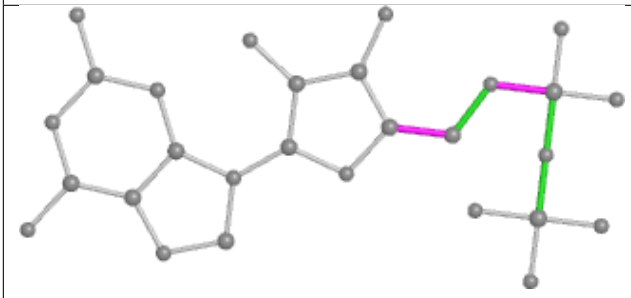

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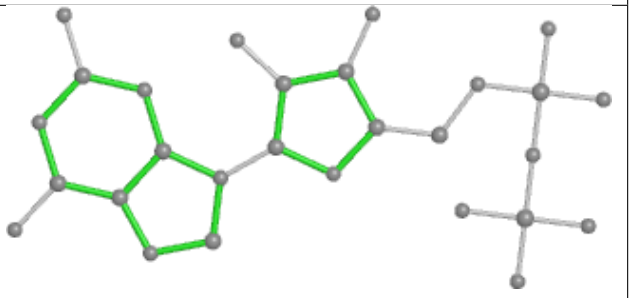
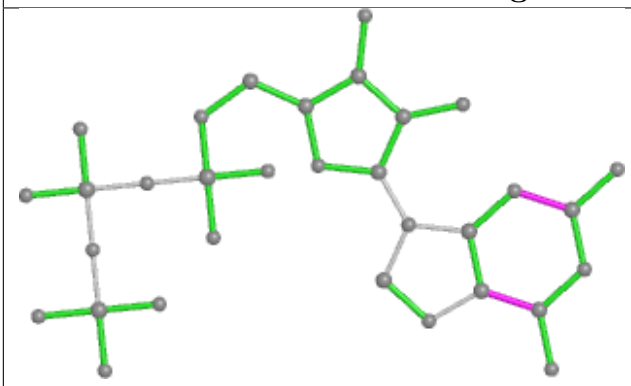


Rings

Ligand GTP VP 501



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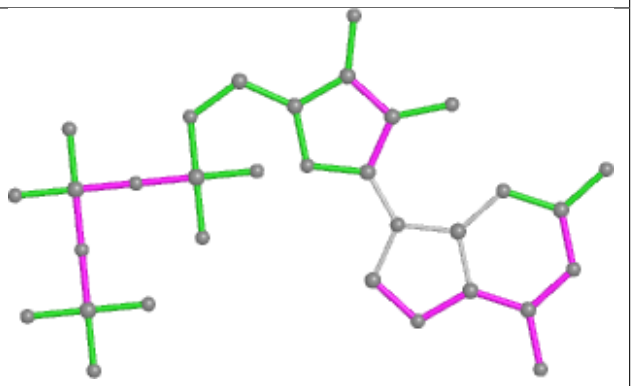

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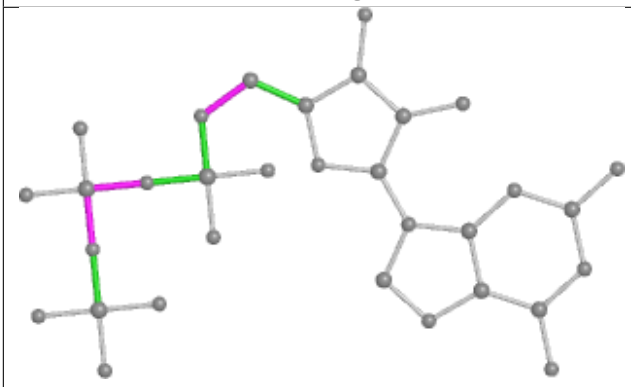

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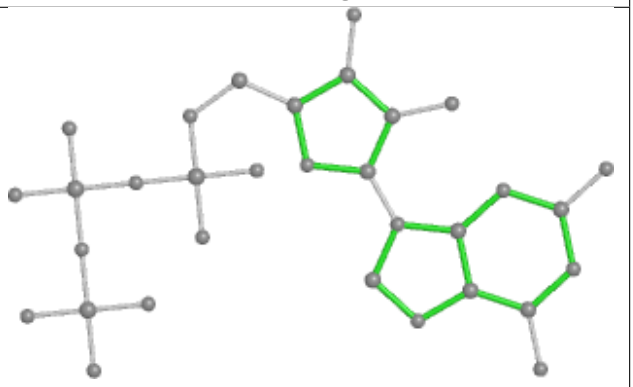
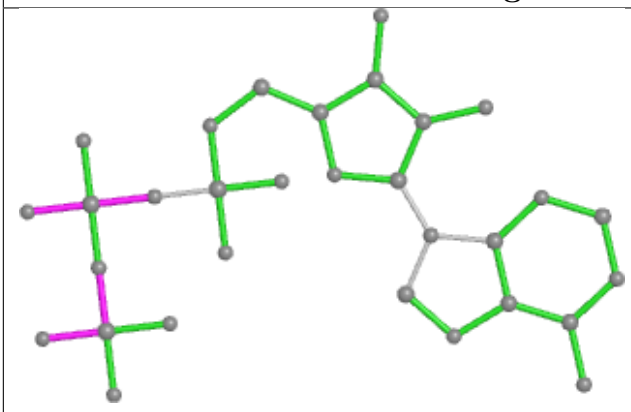


Rings

Ligand ANP C0 2001



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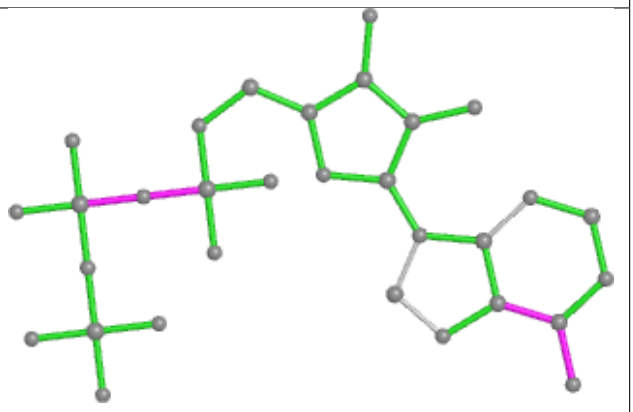

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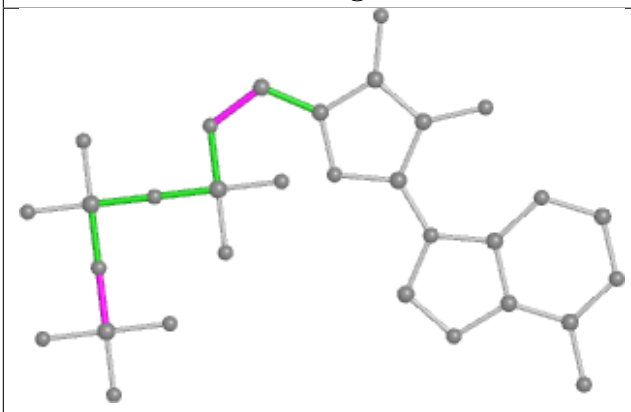

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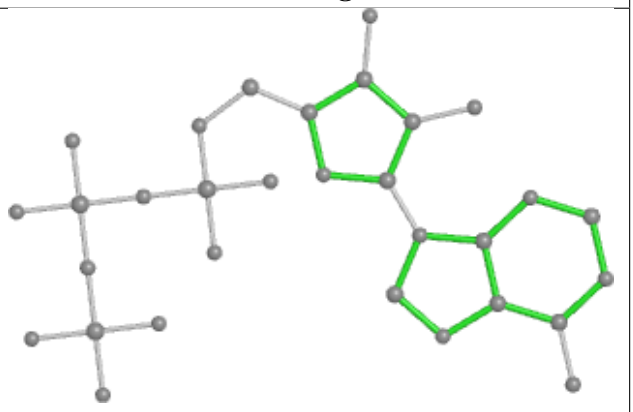
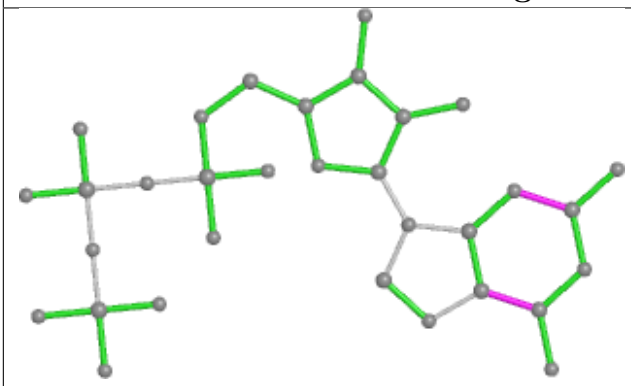


Rings

Ligand GTP ZL 501



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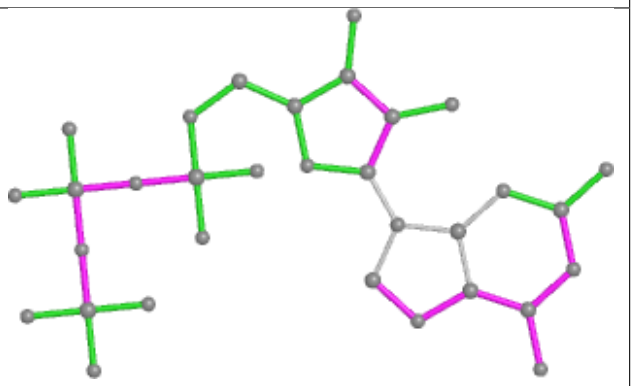

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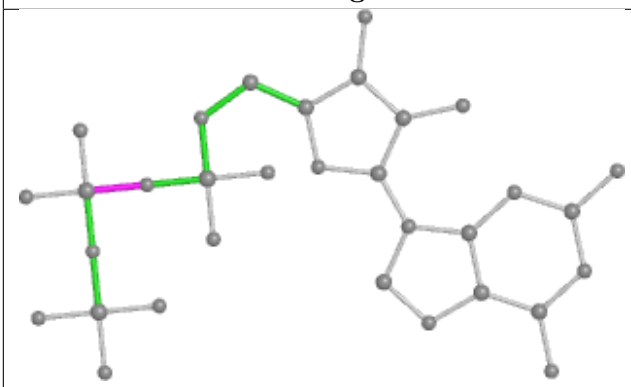

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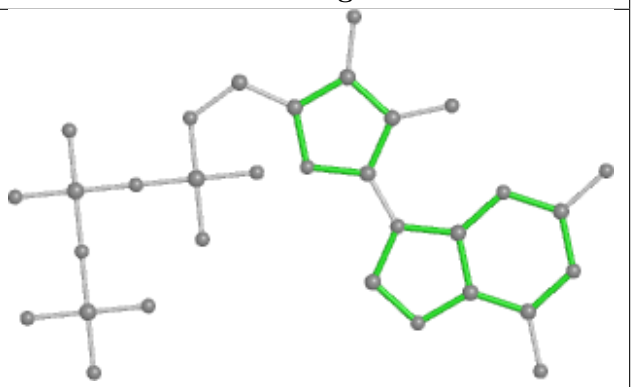
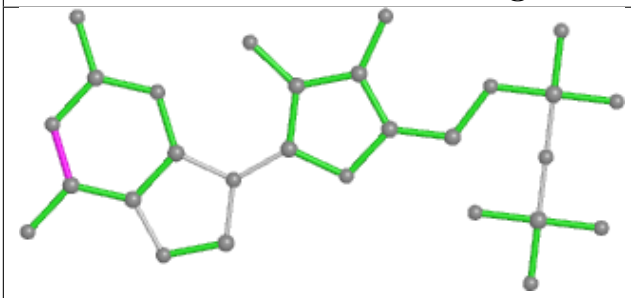


Rings

Ligand GDP OE 501



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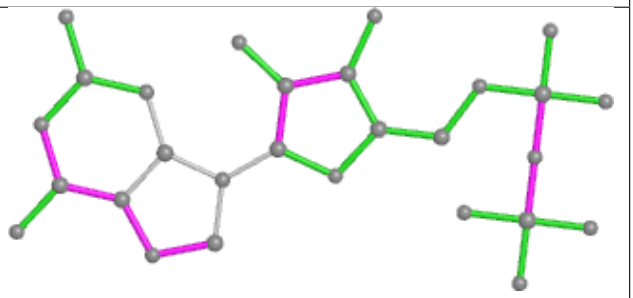

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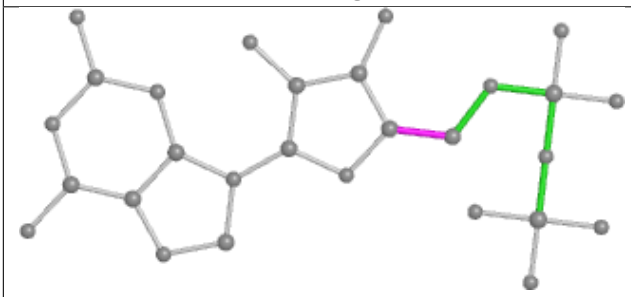

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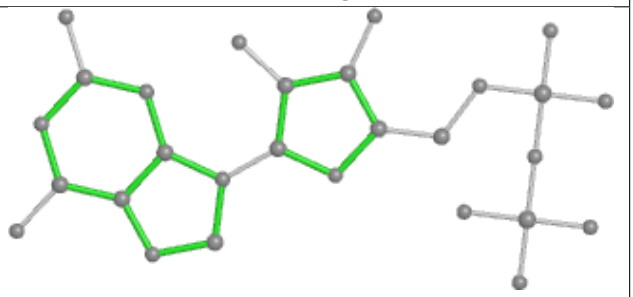
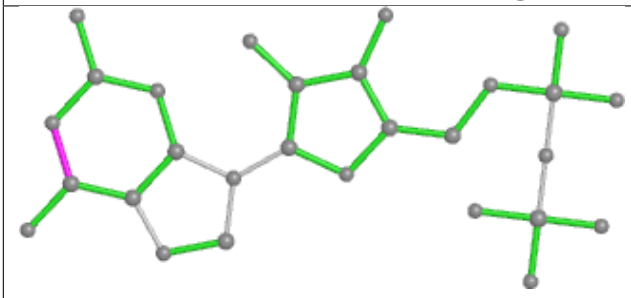


Rings

Ligand GDP ZE 501



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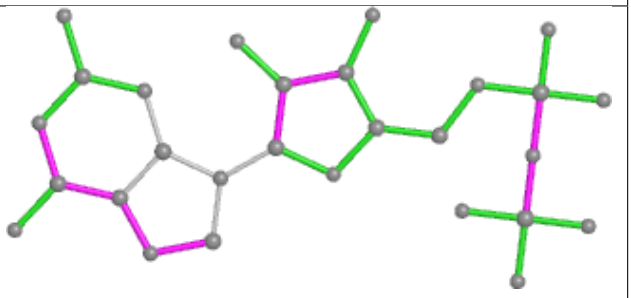

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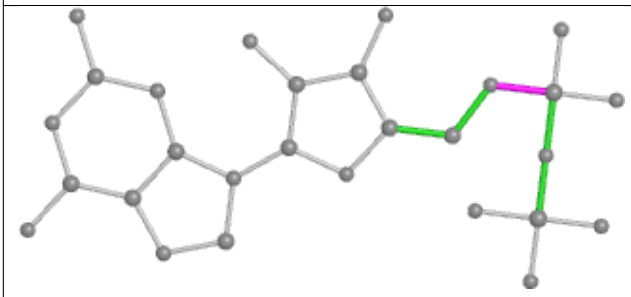

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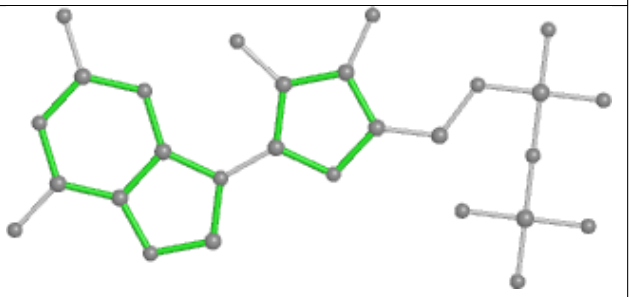
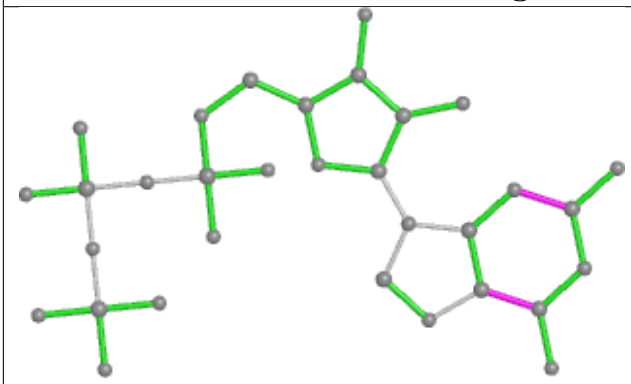


Rings

Ligand GTP XL 501



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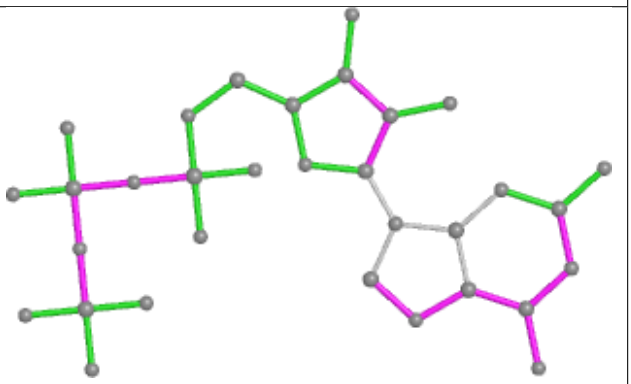

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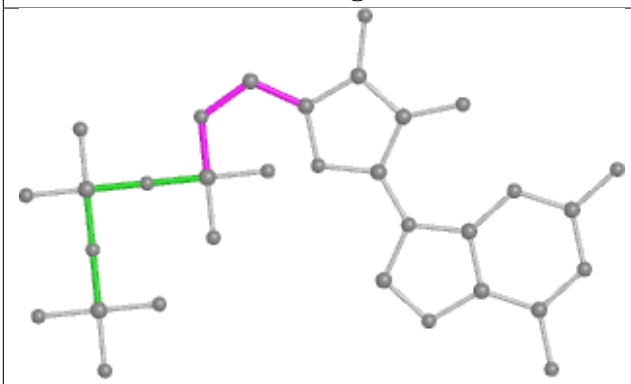

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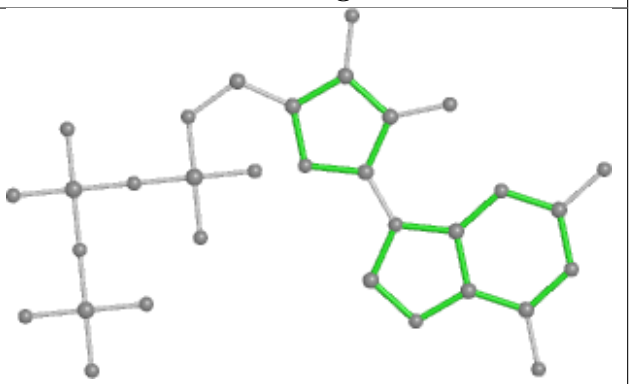
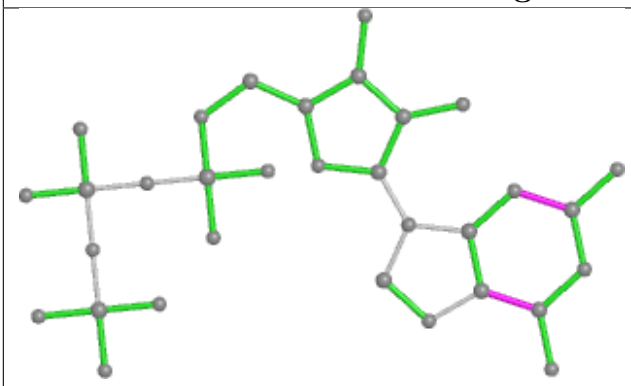


Rings

Ligand GTP PJ 501



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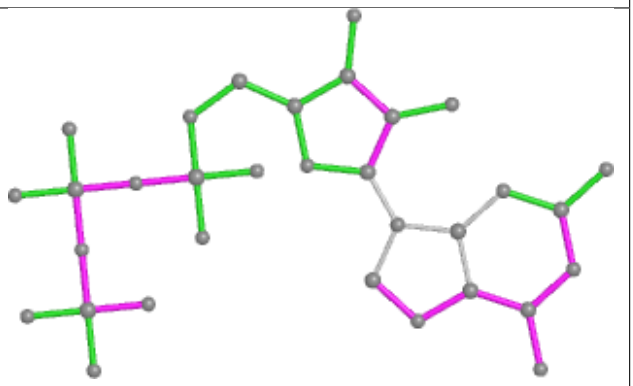

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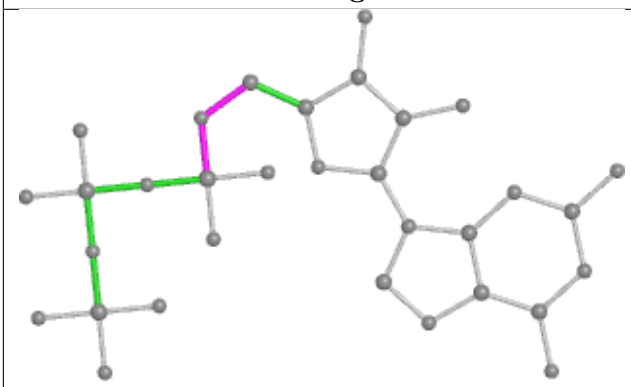

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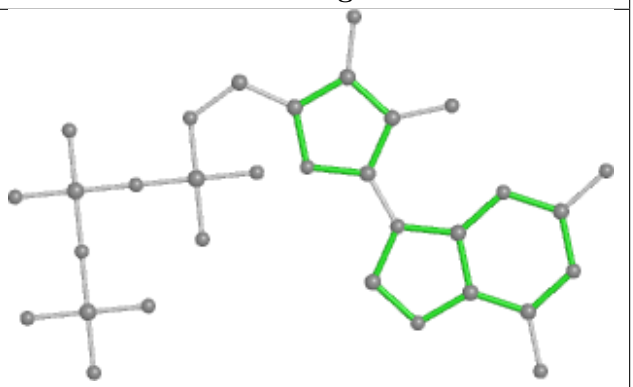
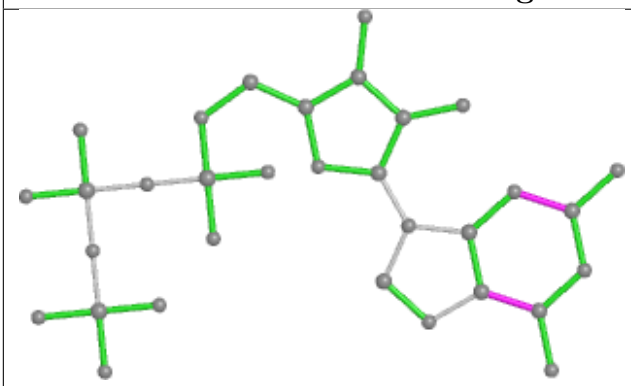


Rings

Ligand GTP SJ 501



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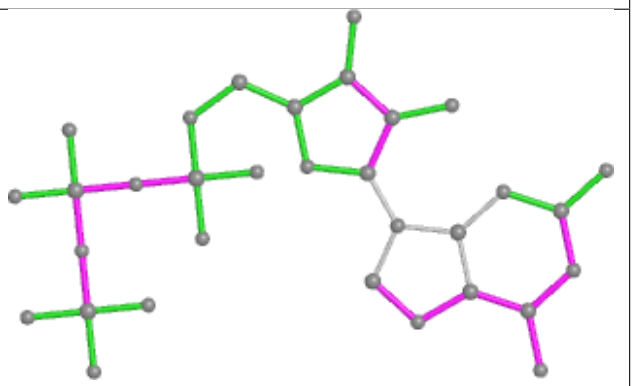

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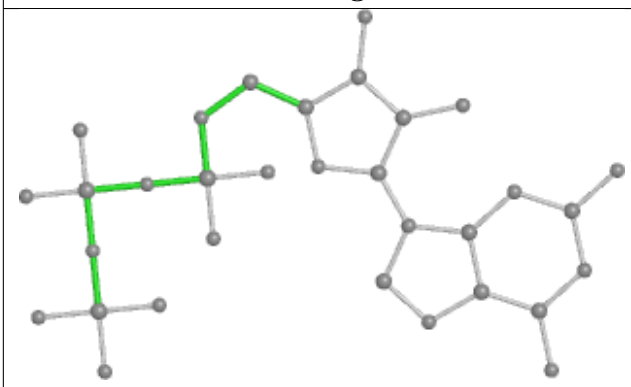

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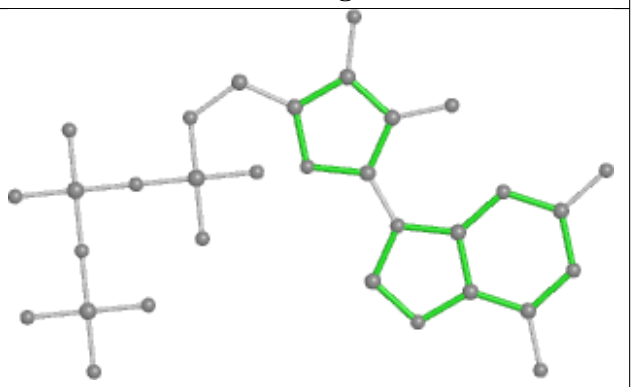
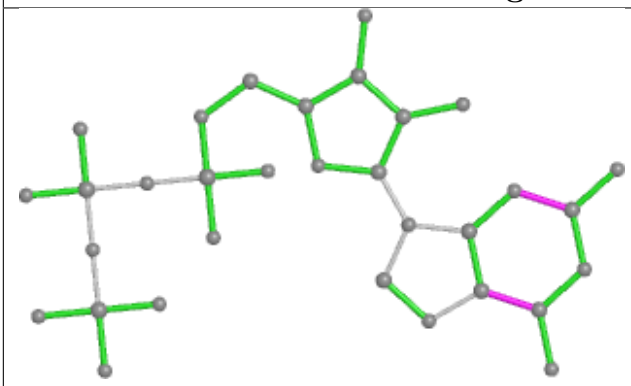


Rings

Ligand GTP WL 501



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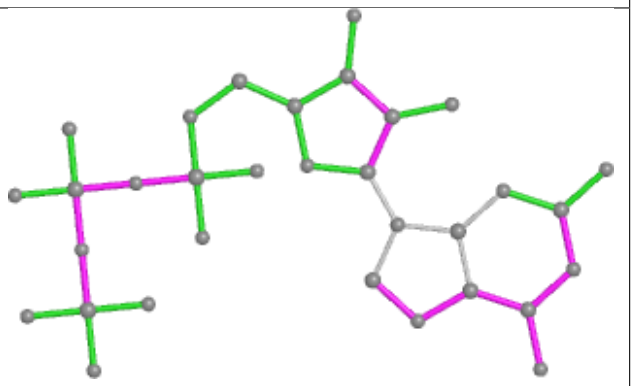
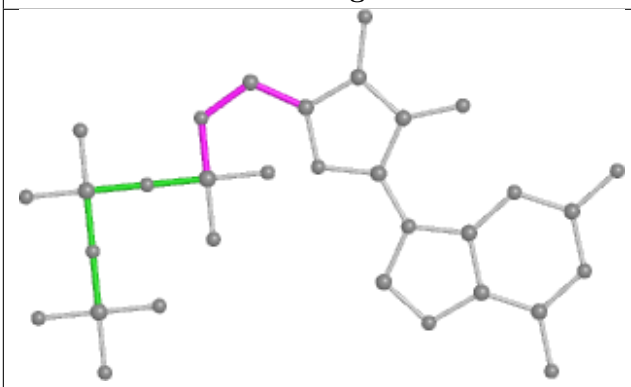


Bond angles



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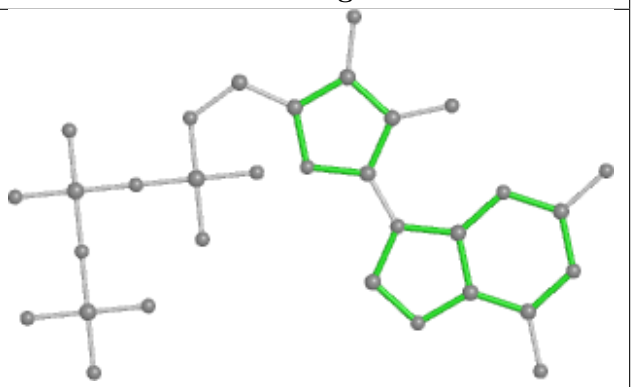
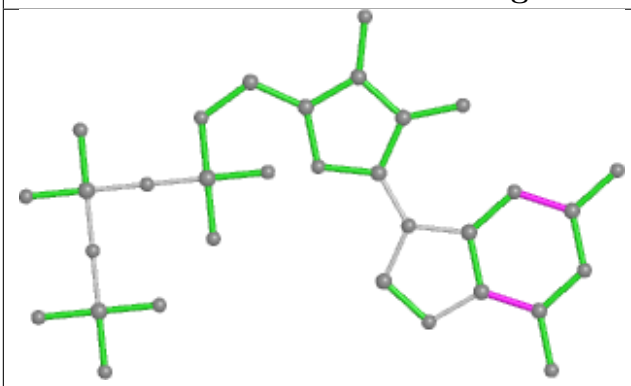


Rings

Ligand GTP RF 501



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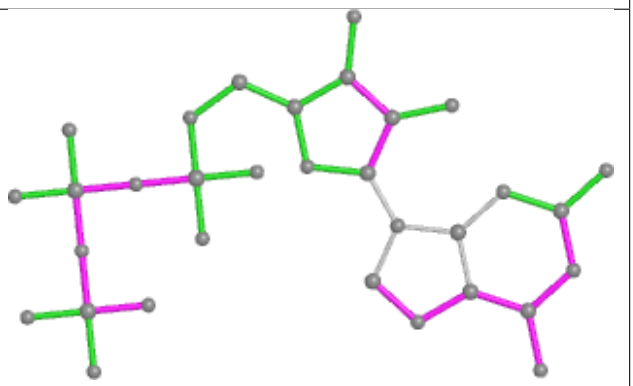

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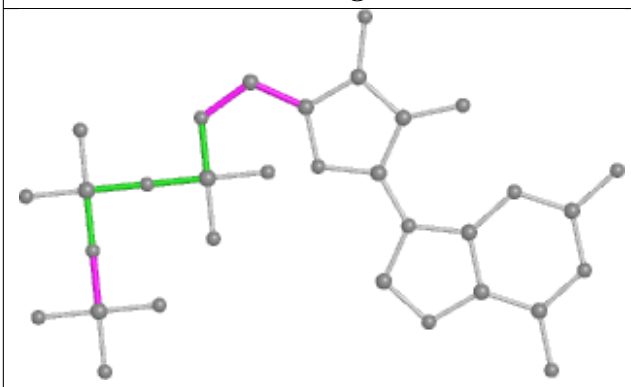

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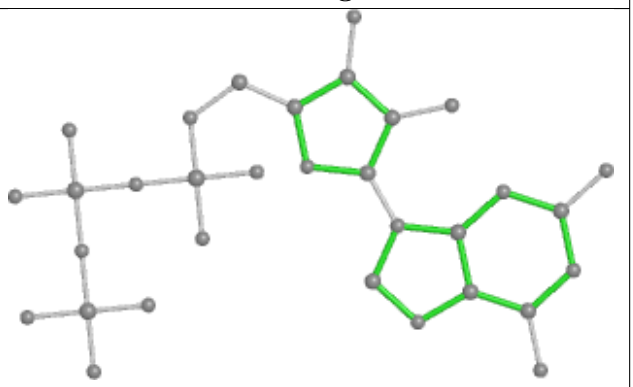
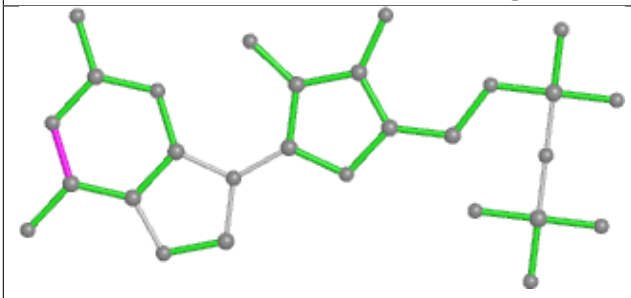


Rings

Ligand GDP NK 501



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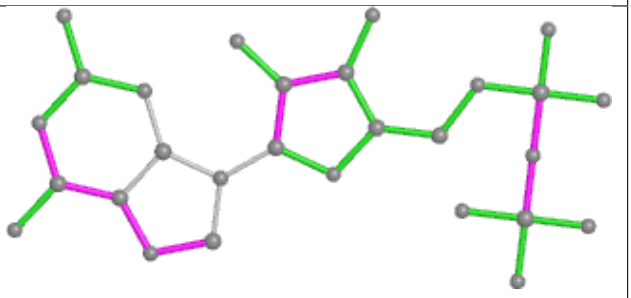
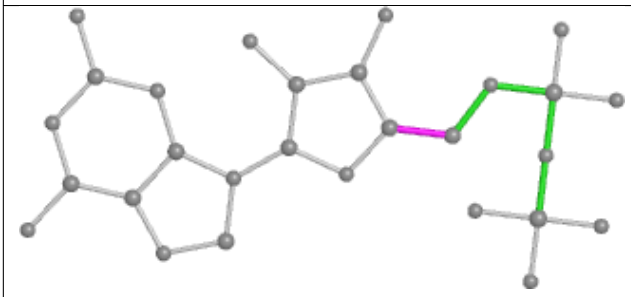


Bond angles



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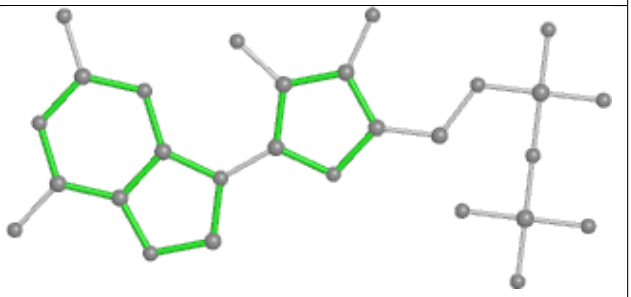
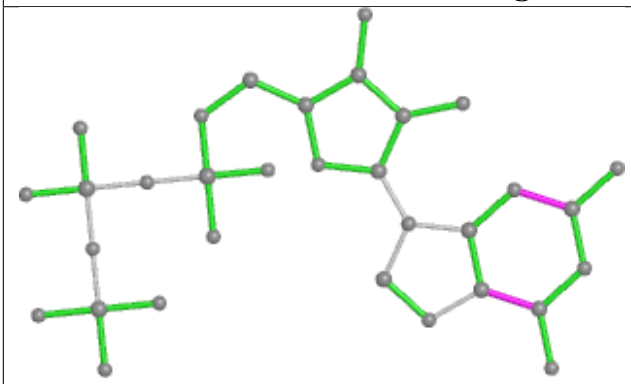
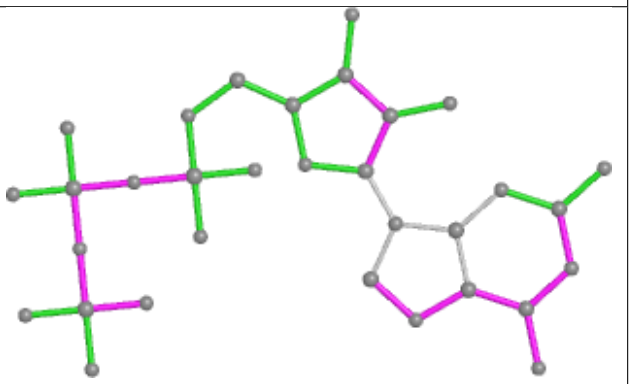


Rings

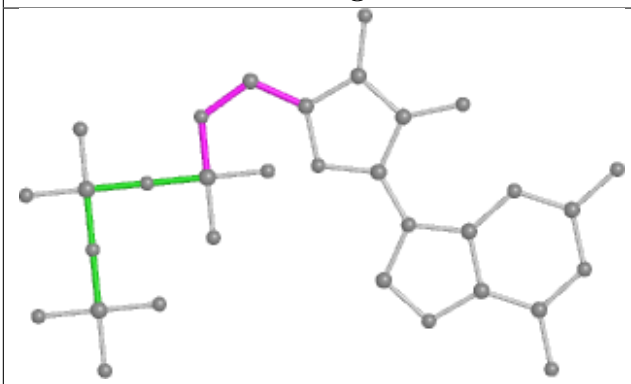
Ligand GTP VJ 501



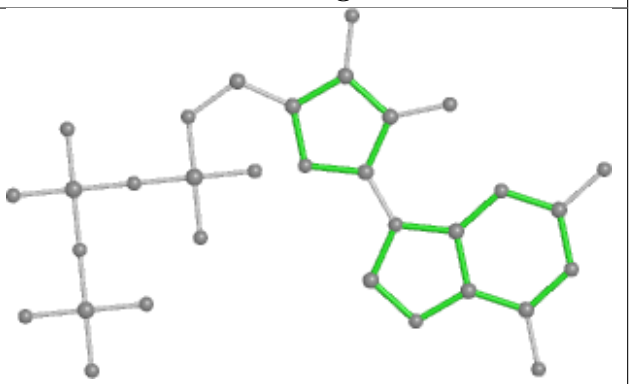
Bond lengths



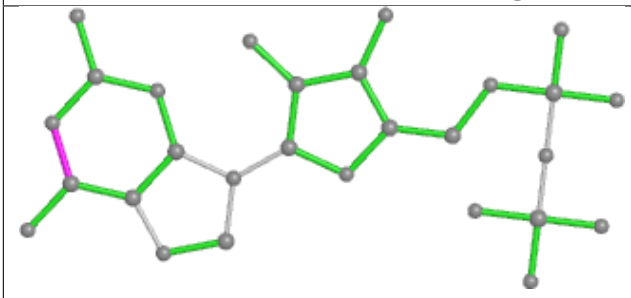
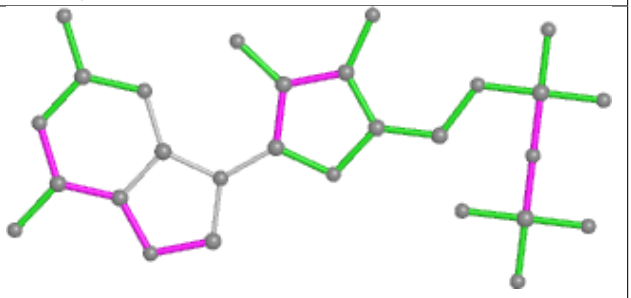
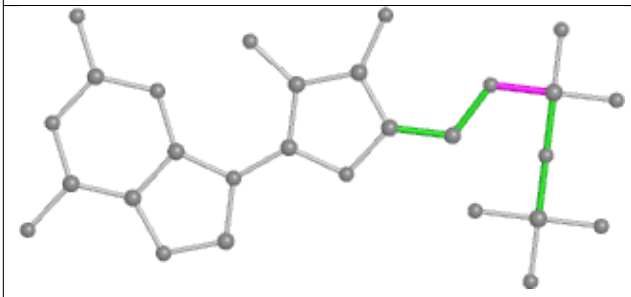
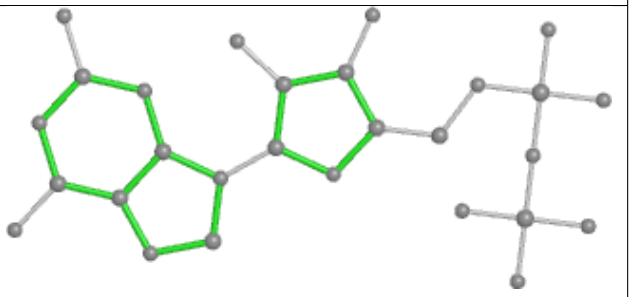
Bond angles

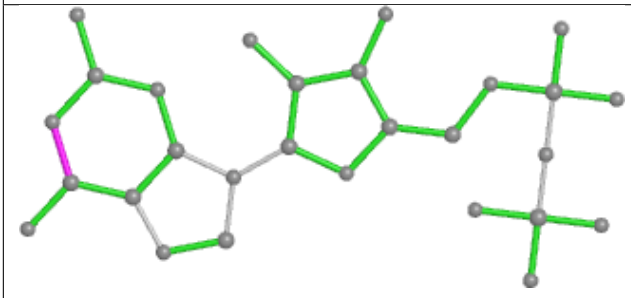
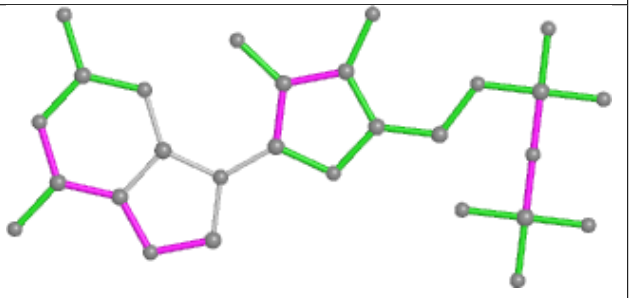
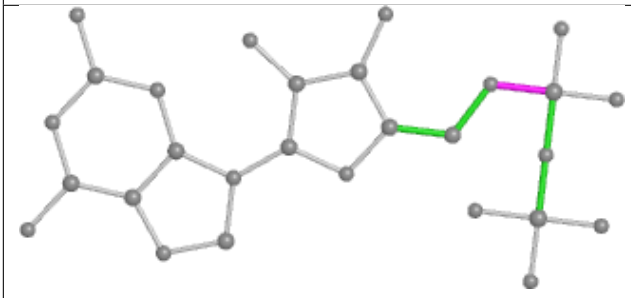
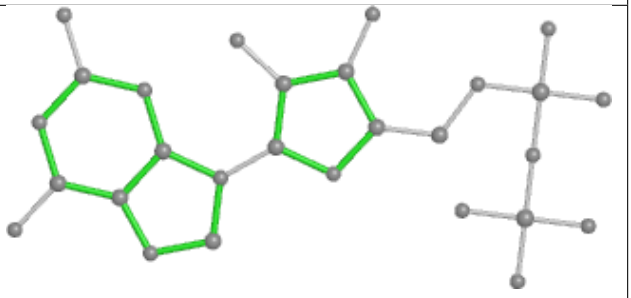


Torsions

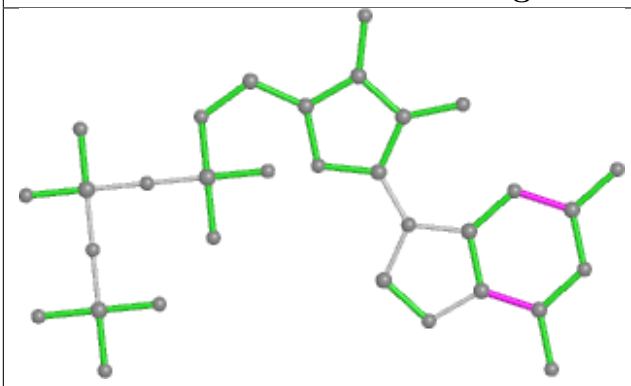


Rings

Ligand GDP PQ 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GDP QI 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GTP QJ 501



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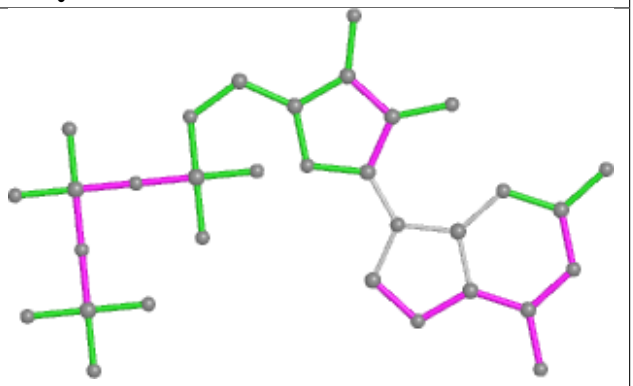

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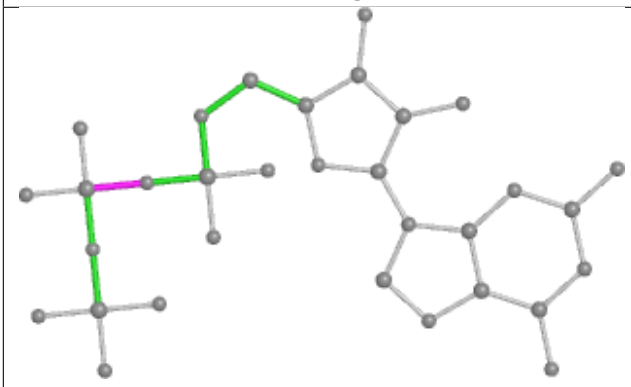

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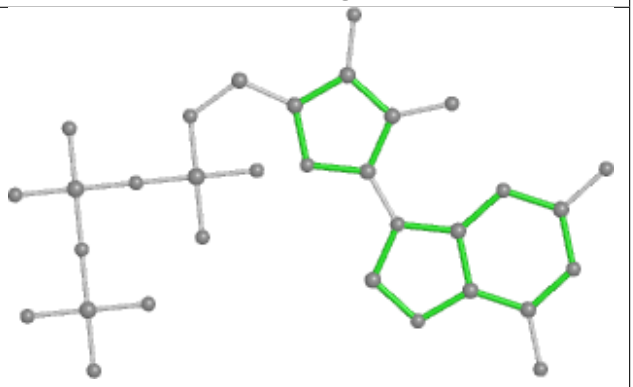
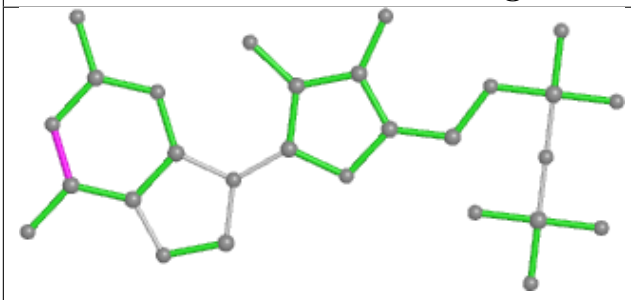


Rings

Ligand GDP OM 501



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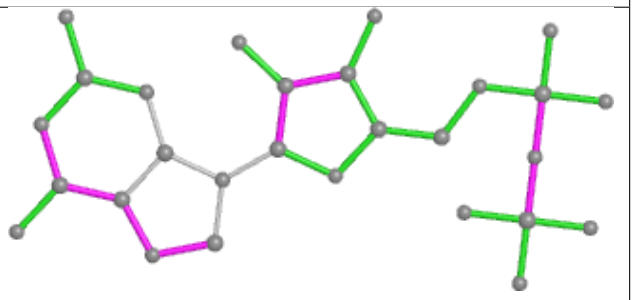

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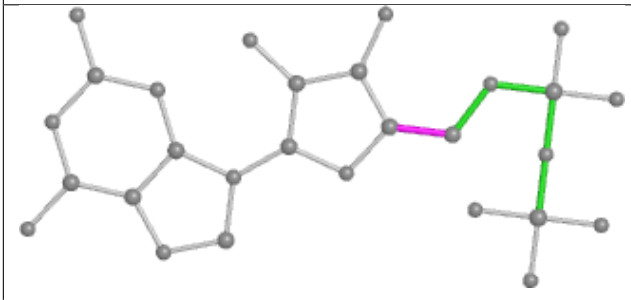

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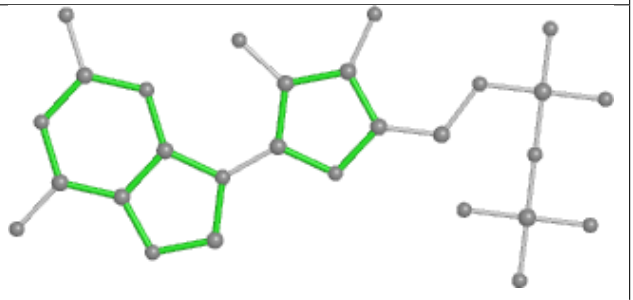
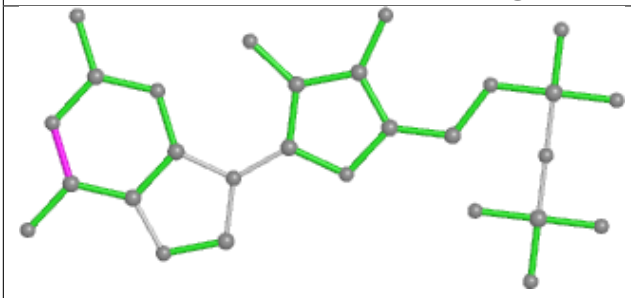


Rings

Ligand GDP QE 501



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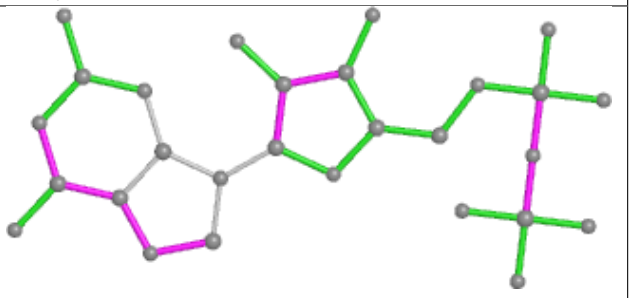

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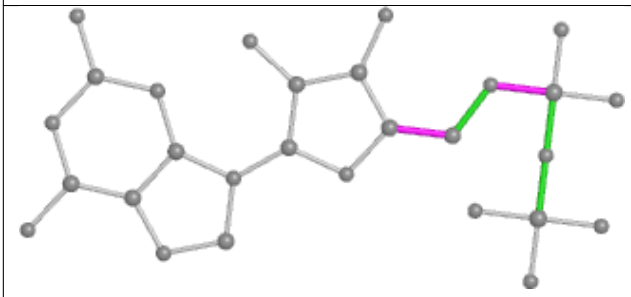

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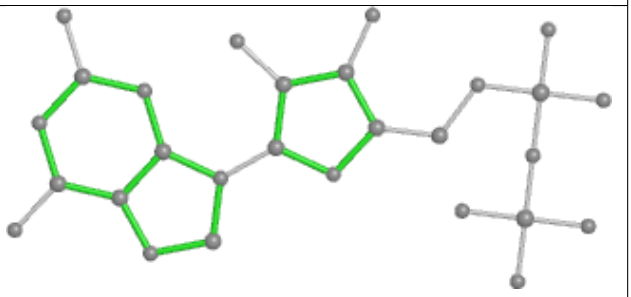
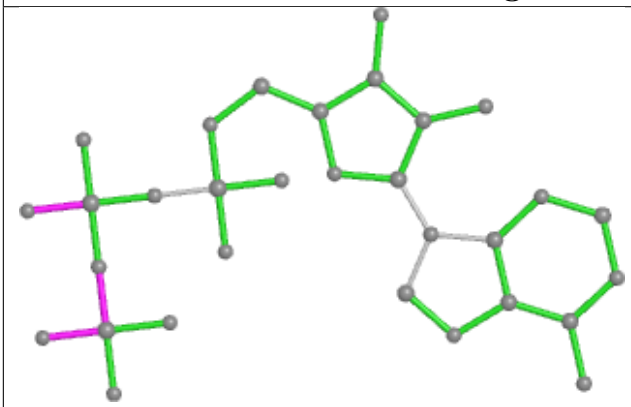


Rings

Ligand ANP 1A 2602



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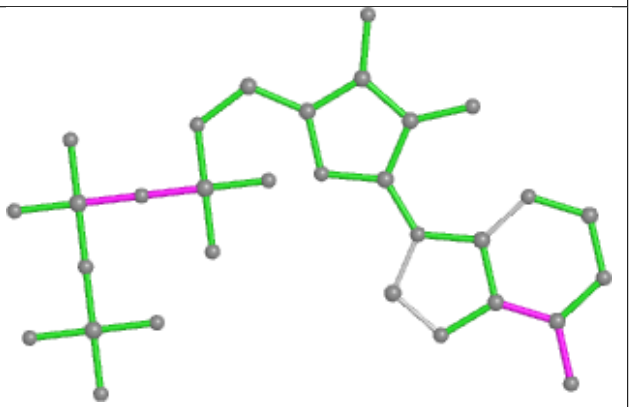

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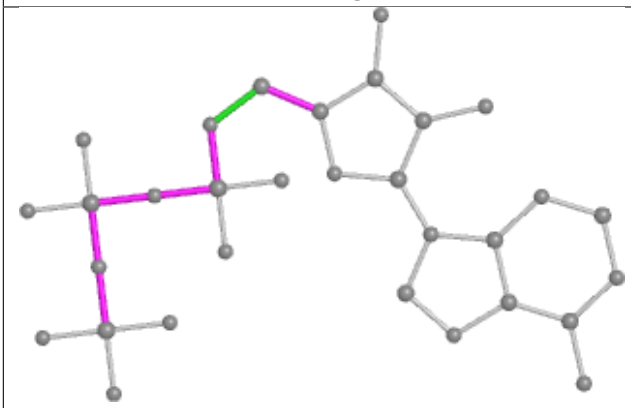

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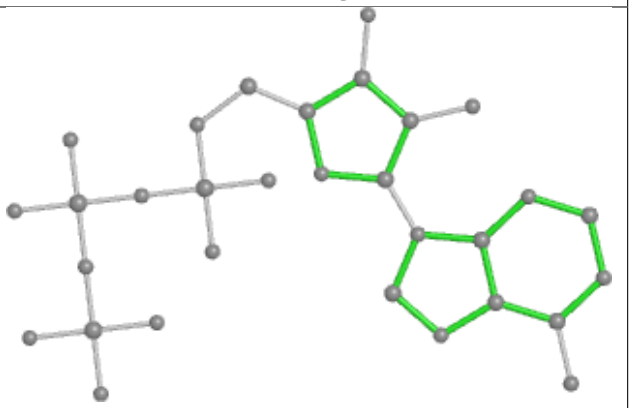

Rings

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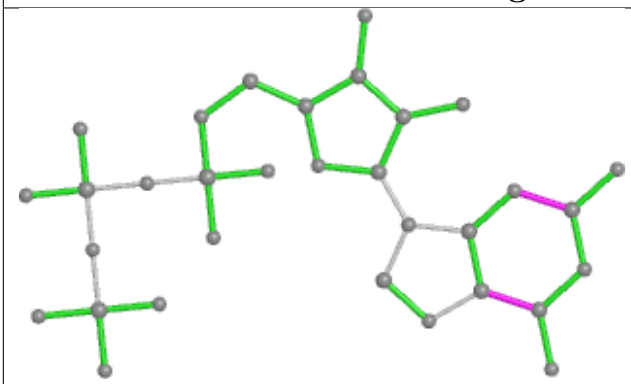

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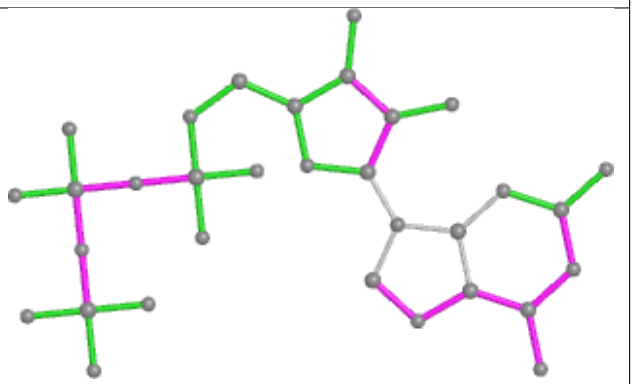

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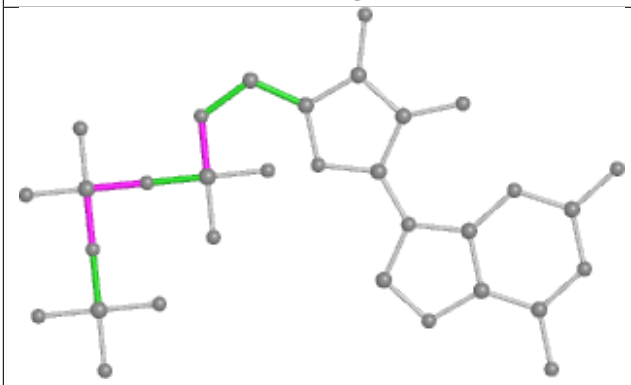

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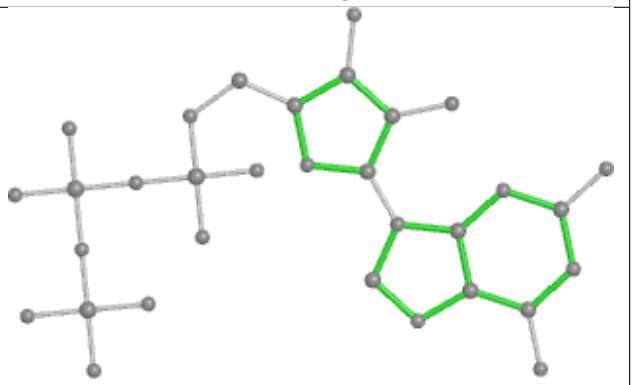
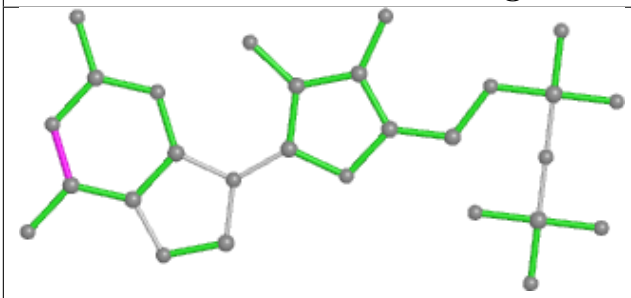


Rings

Ligand GDP VM 501



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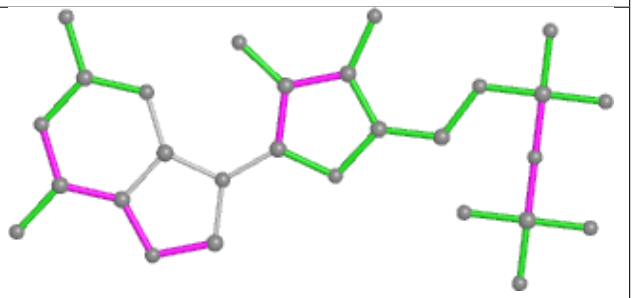

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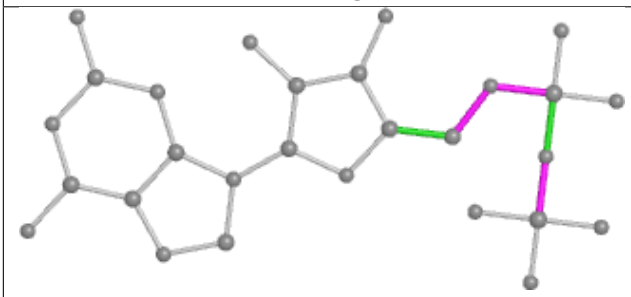

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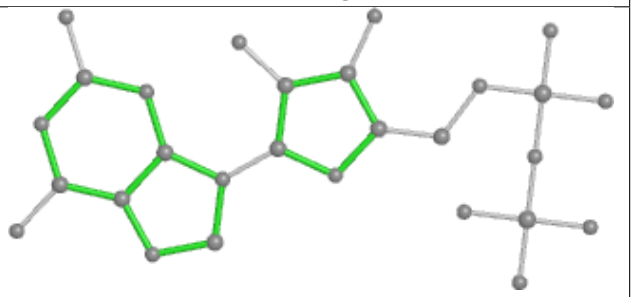

Rings

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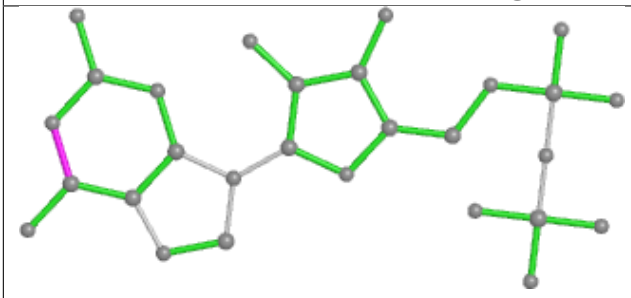

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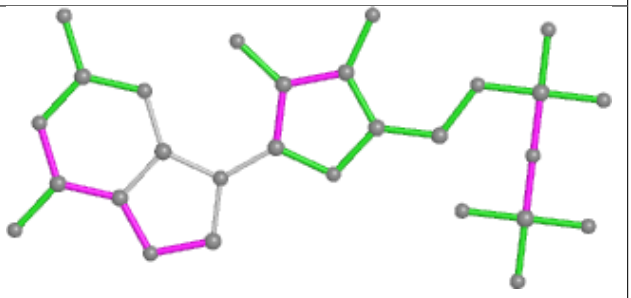

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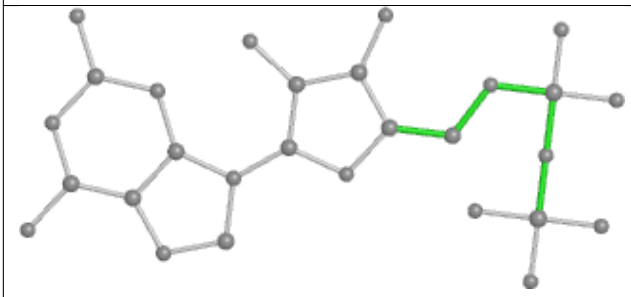

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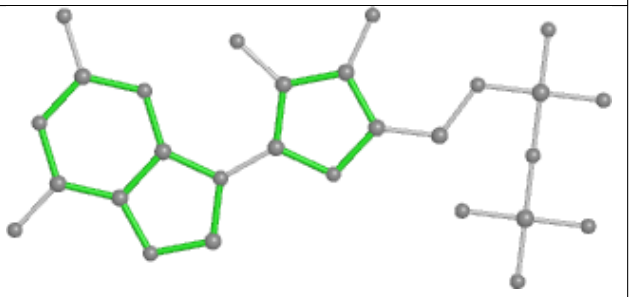
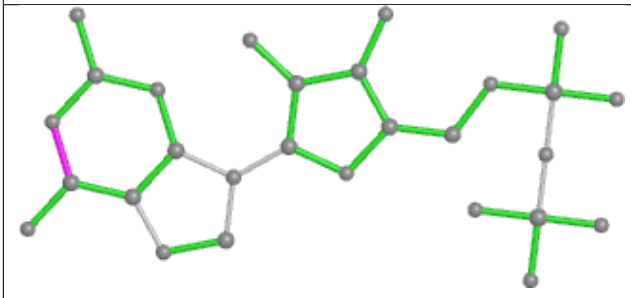


Rings

Ligand GDP YC 501



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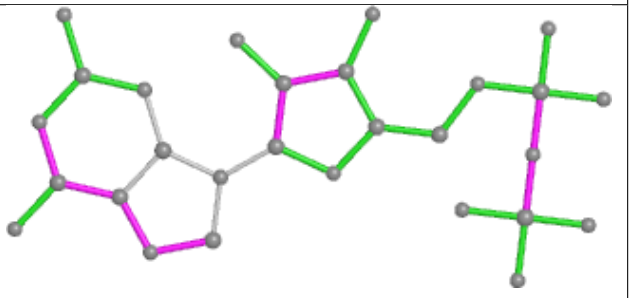

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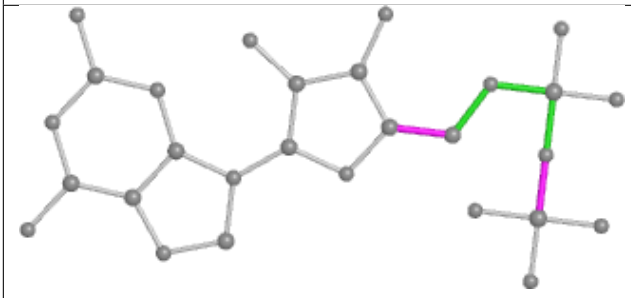

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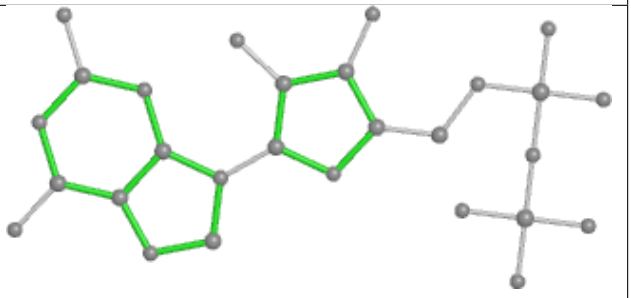
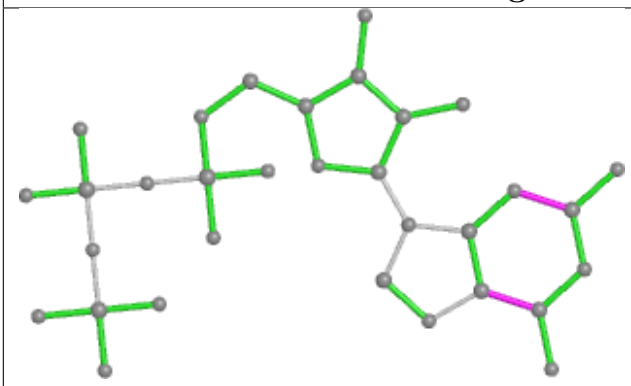


Rings

Ligand GTP ON 501



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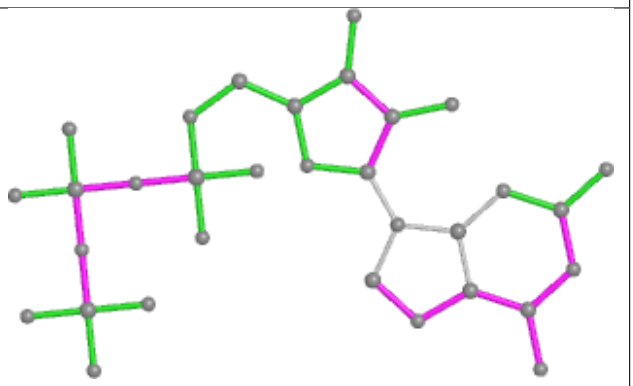

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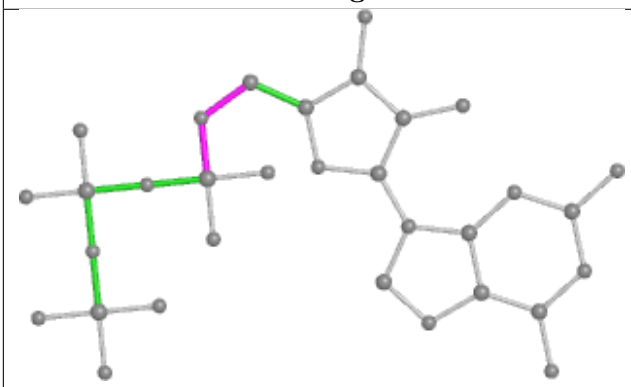

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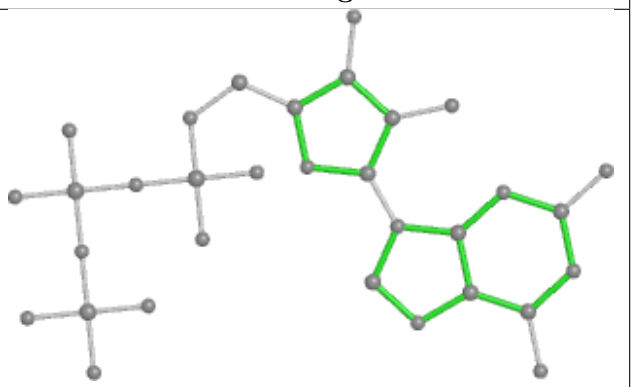
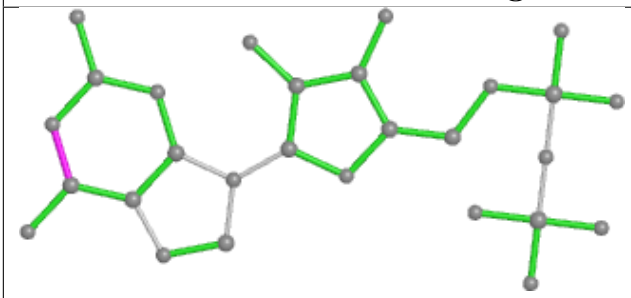


Rings

Ligand GDP NO 501



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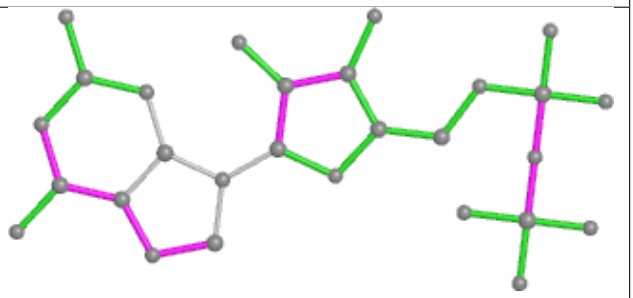

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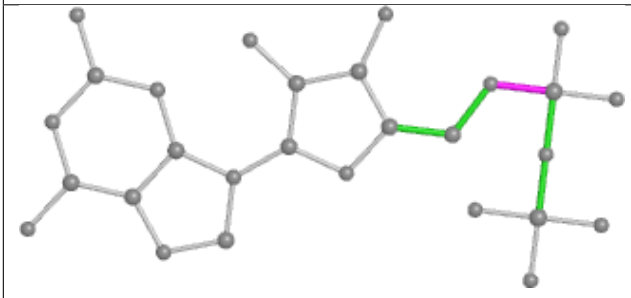

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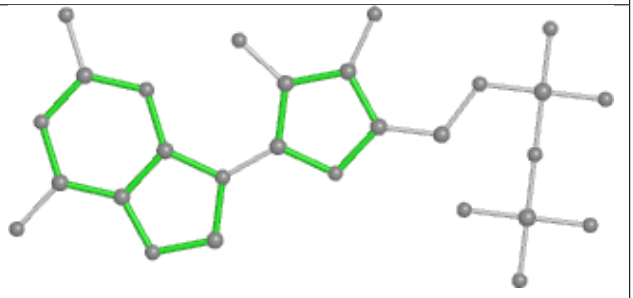
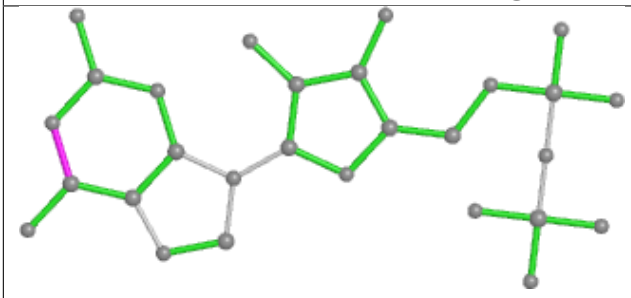


Rings

Ligand GDP PK 501



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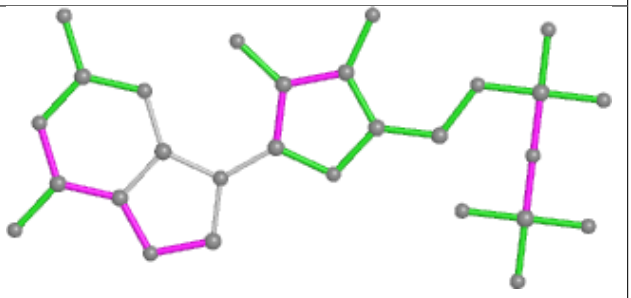

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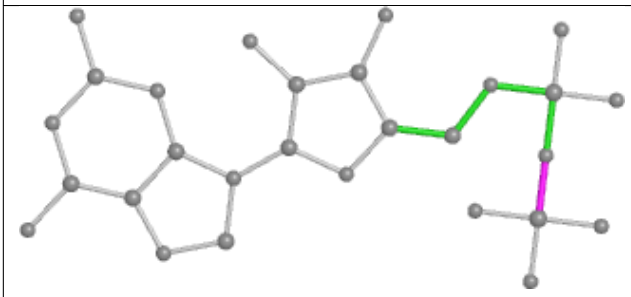
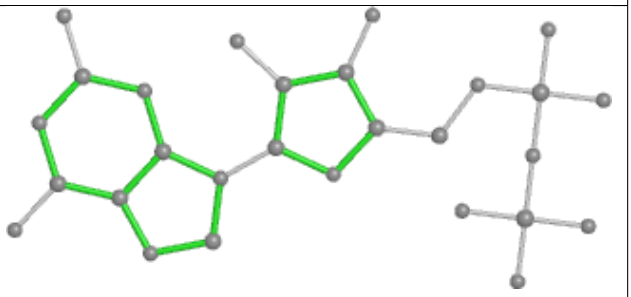
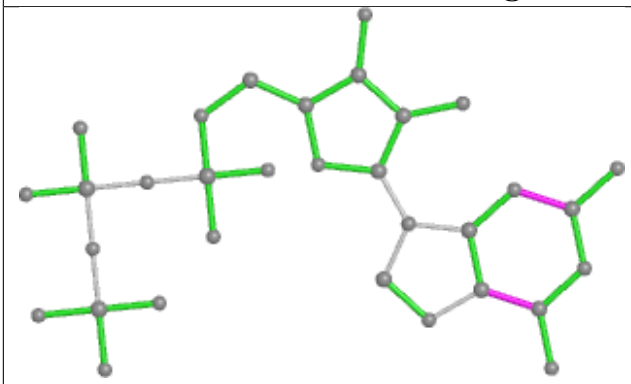


Torsions

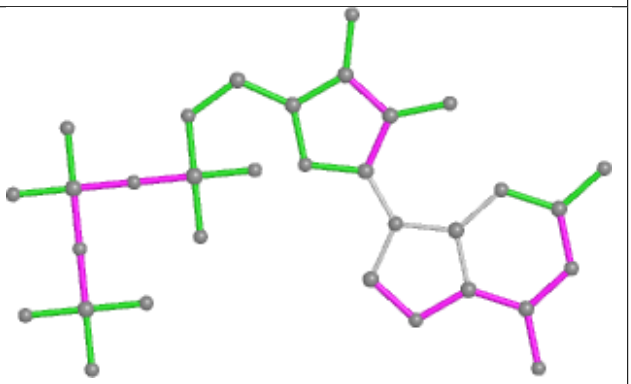


Rings

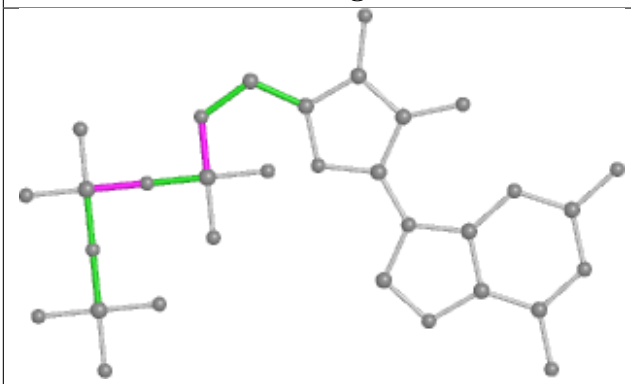
Ligand GTP WD 501



Bond lengths



Bond angles



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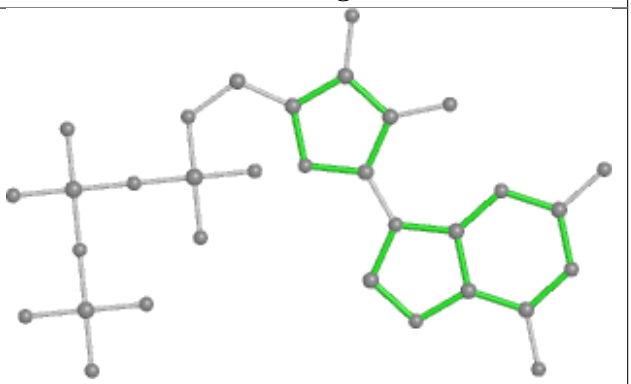
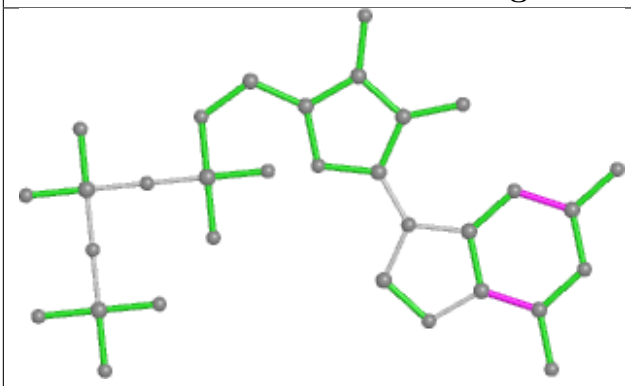


Rings

Ligand GTP YP 501



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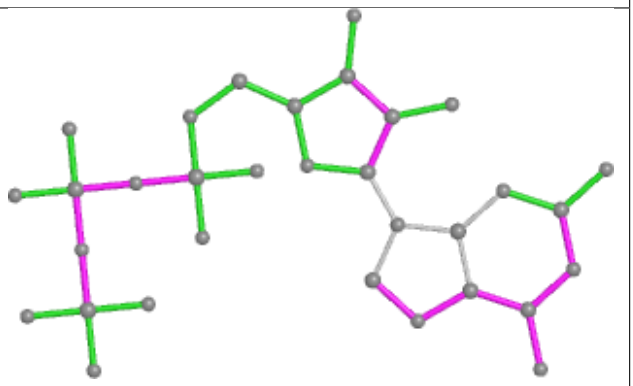

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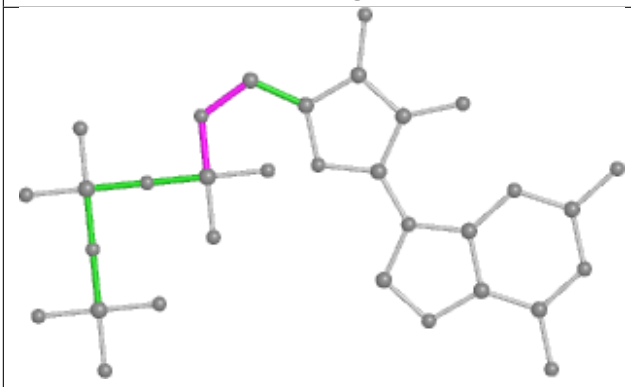

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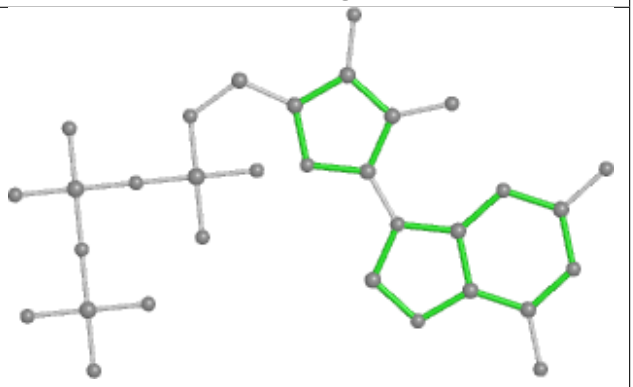
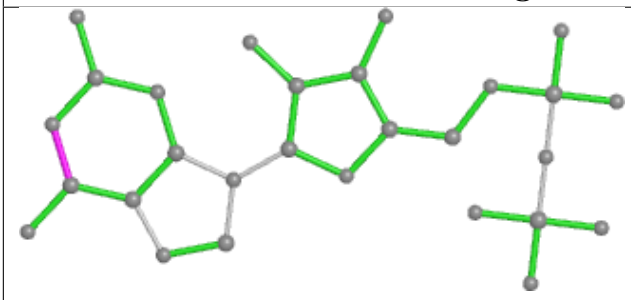


Rings

Ligand GDP YI 501



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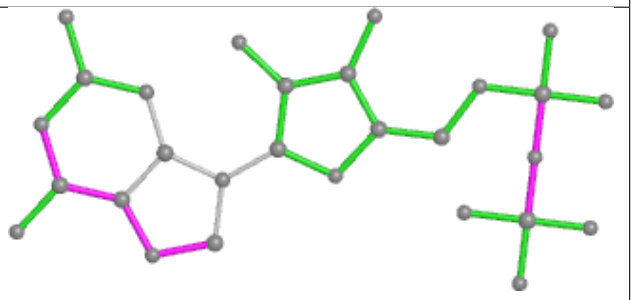

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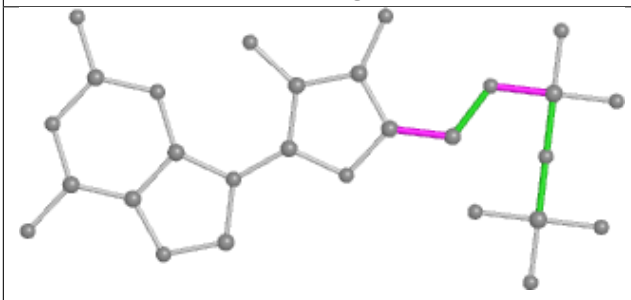

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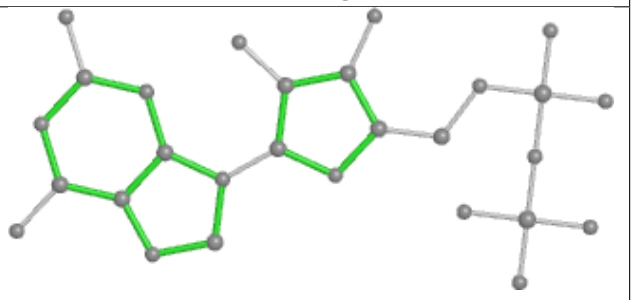
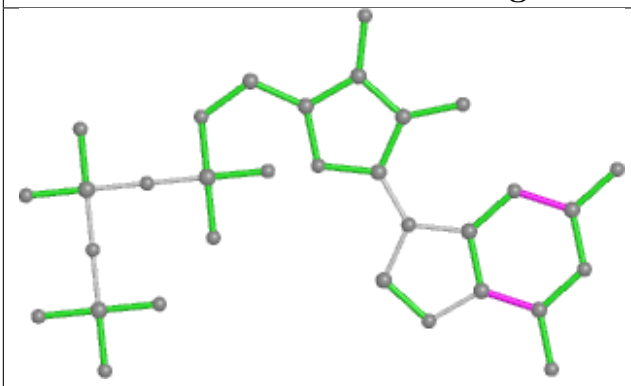


Rings

Ligand GTP XB 501



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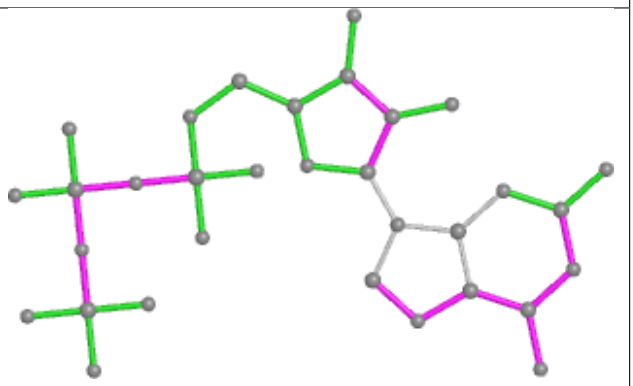

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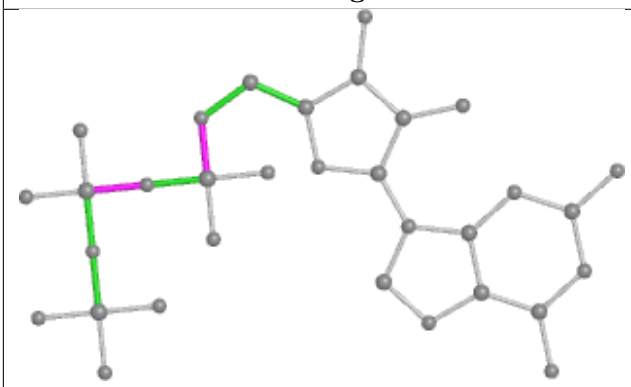

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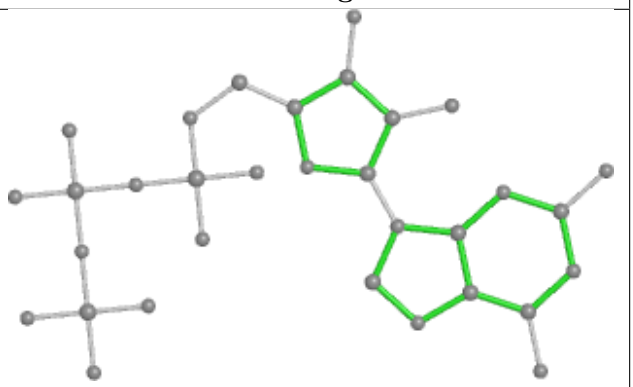
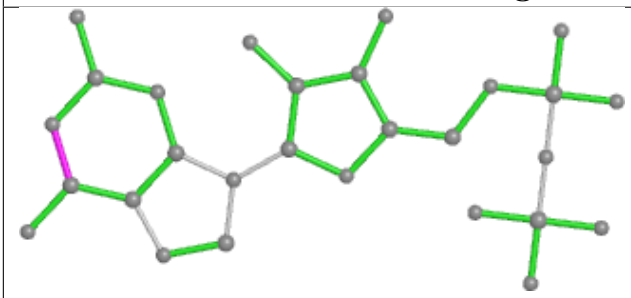


Rings

Ligand GDP XI 501



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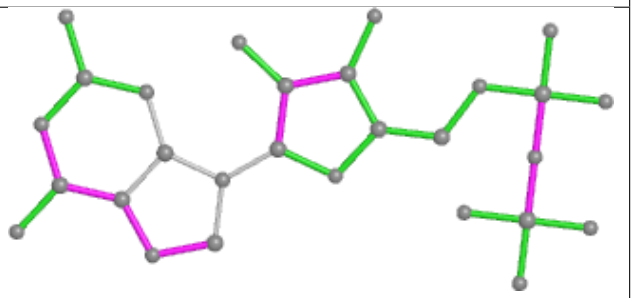

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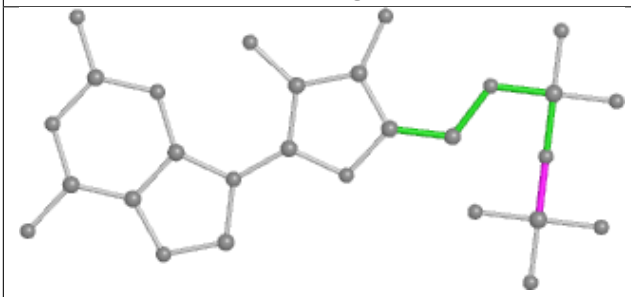

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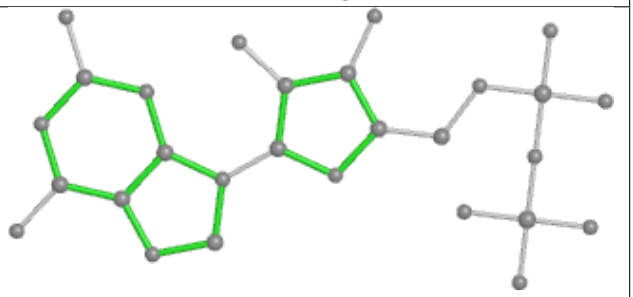
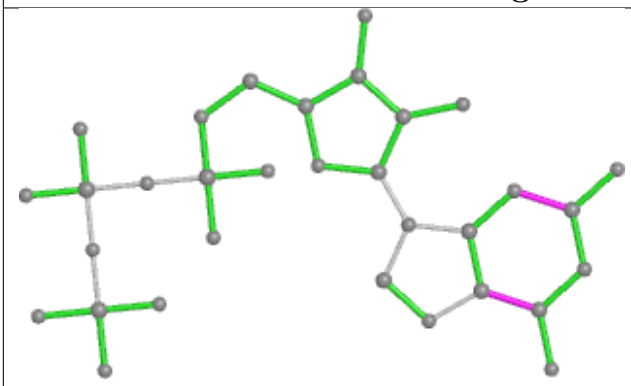


Rings

Ligand GTP RL 501



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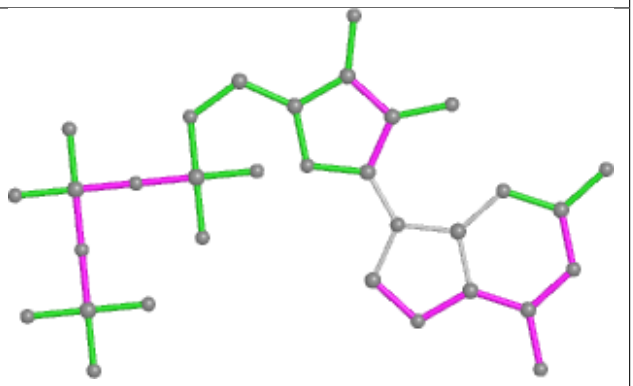

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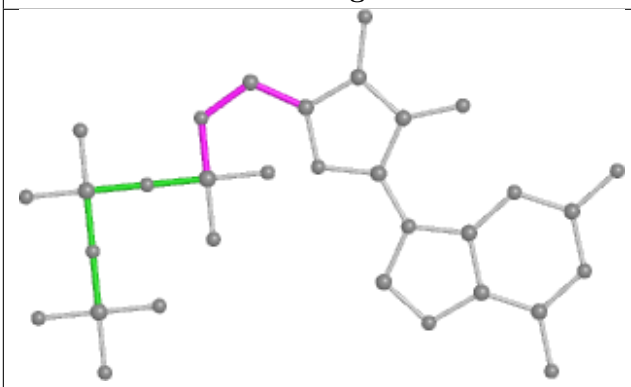

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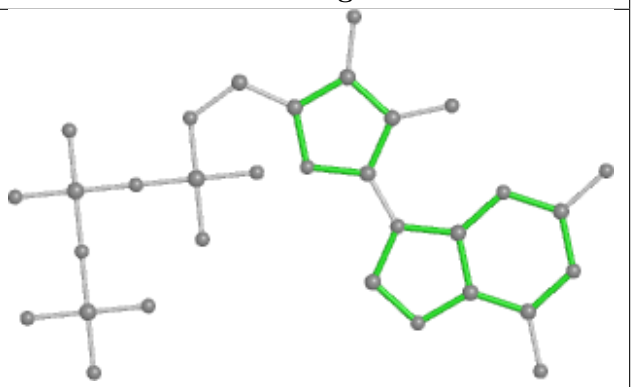
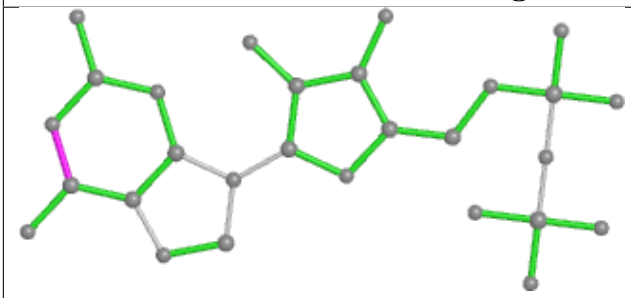


Rings

Ligand GDP PE 501



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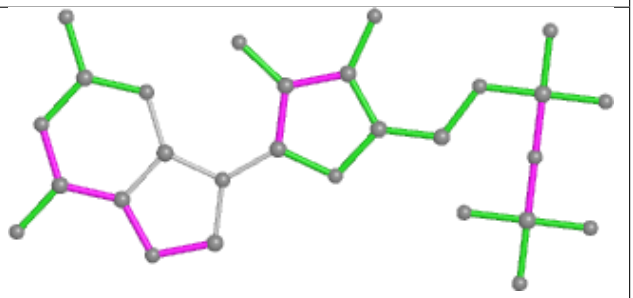

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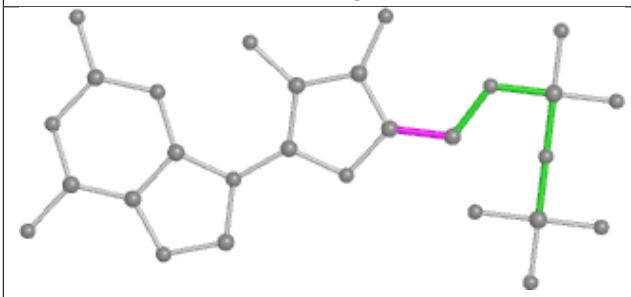

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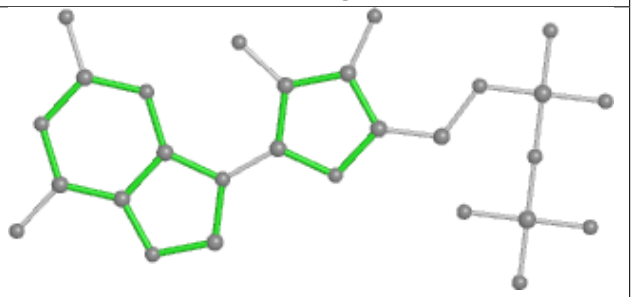
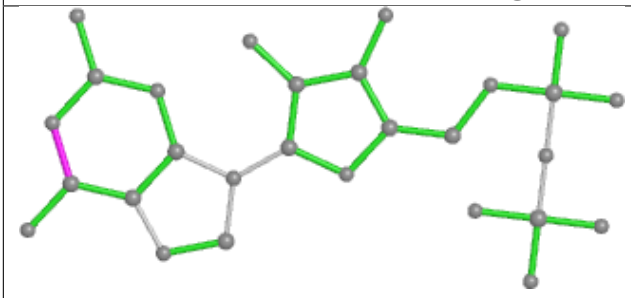


Rings

Ligand GDP UE 501



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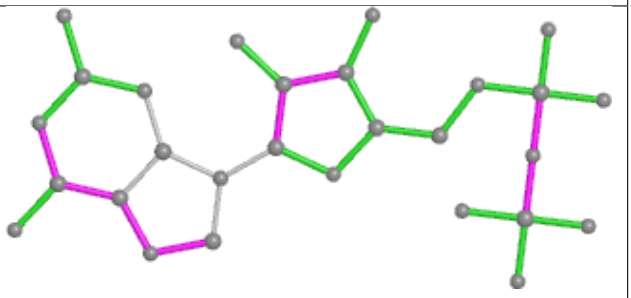

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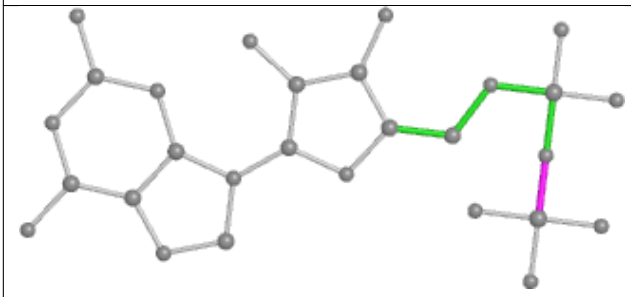

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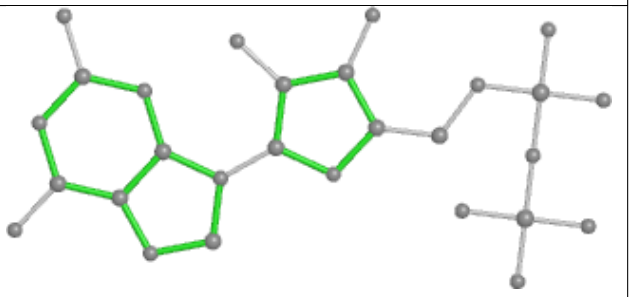
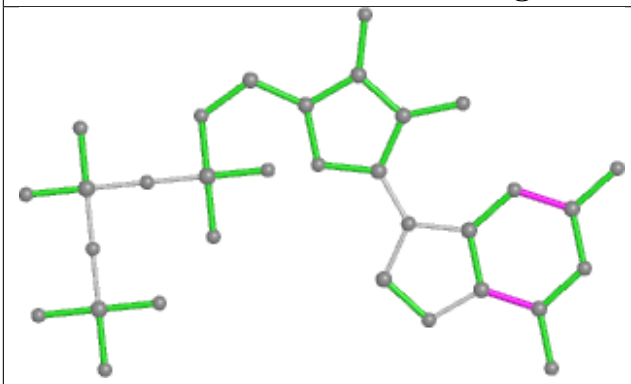


Rings

Ligand GTP SP 501



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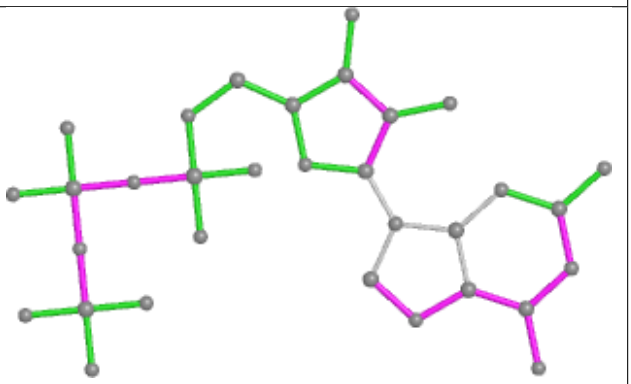

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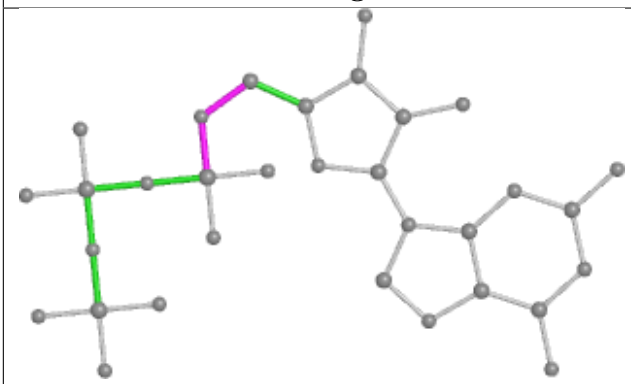

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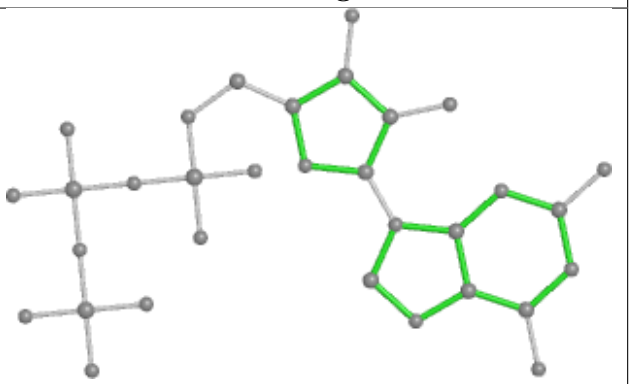
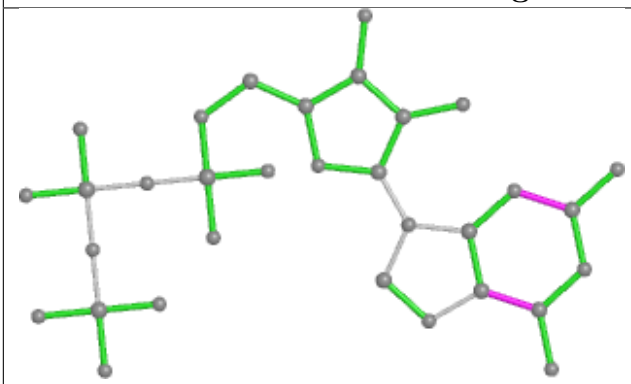


Rings

Ligand GTP SH 501



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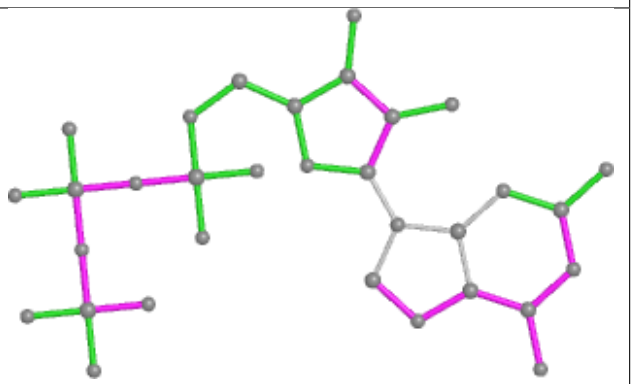

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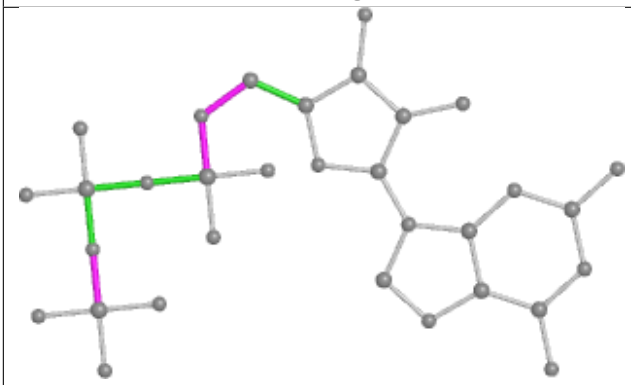

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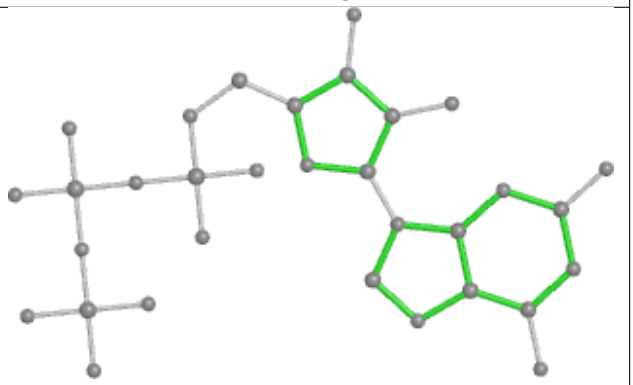
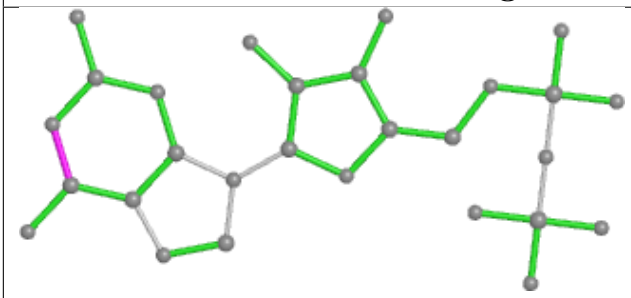


Rings

Ligand GDP WM 501



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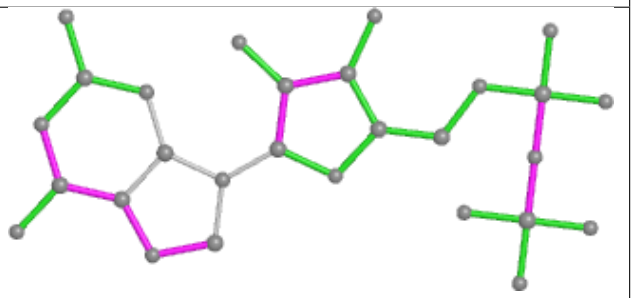

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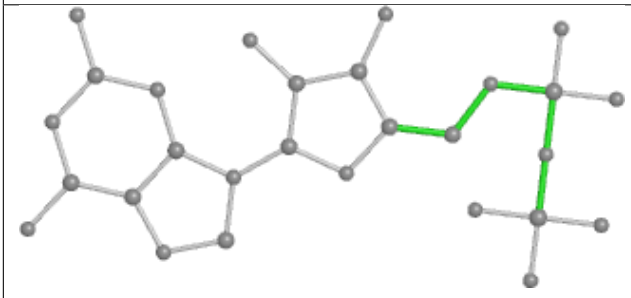

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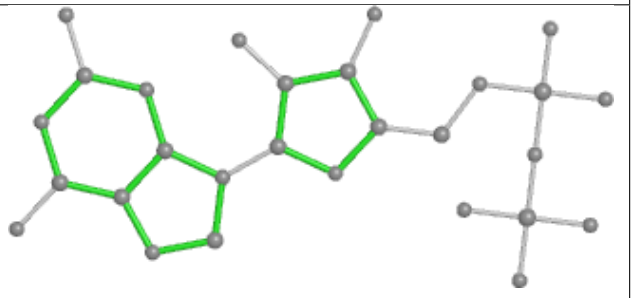
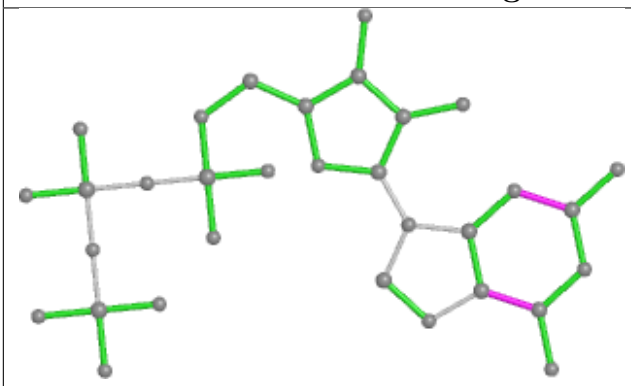


Rings

Ligand GTP WN 501



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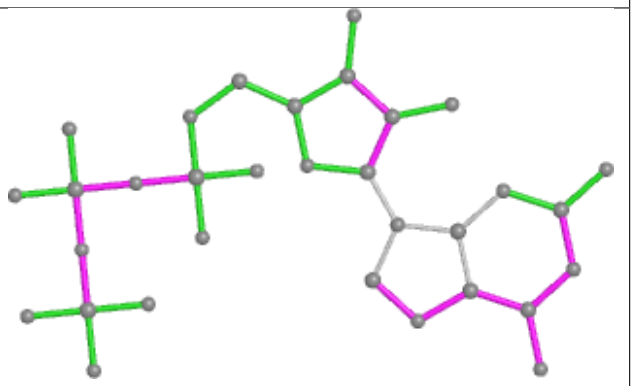
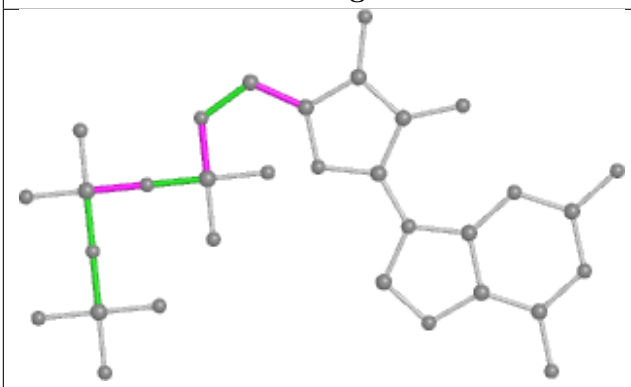


Bond angles



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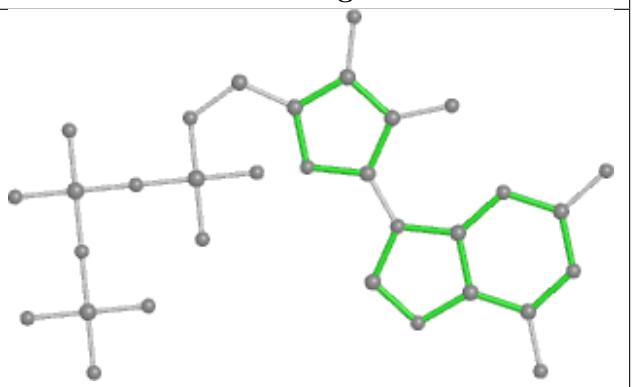
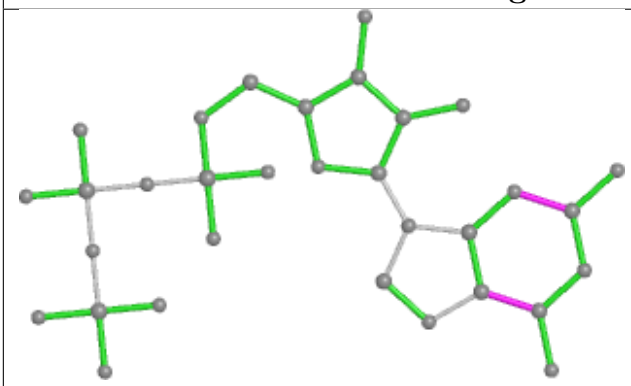


Rings

Ligand GTP TN 501



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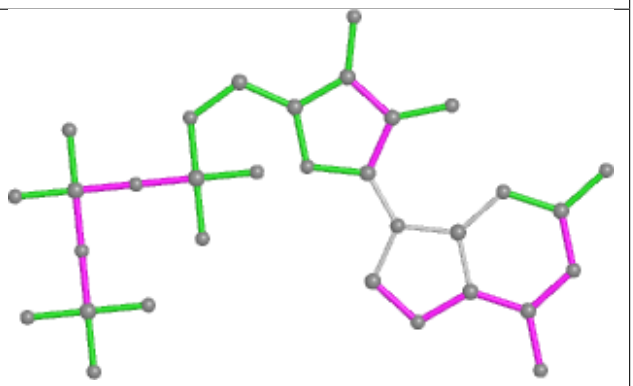
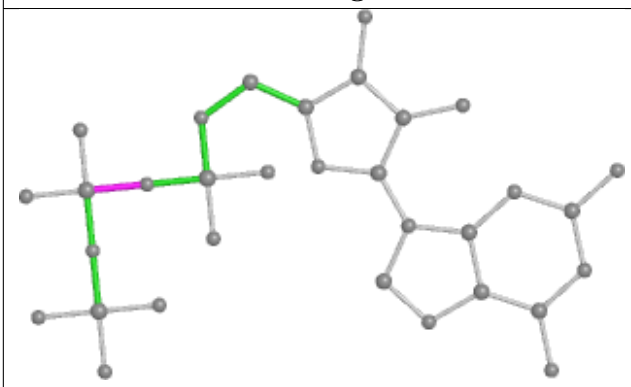


Bond angles



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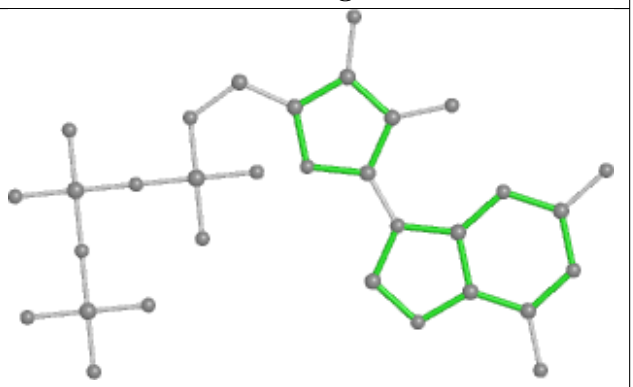
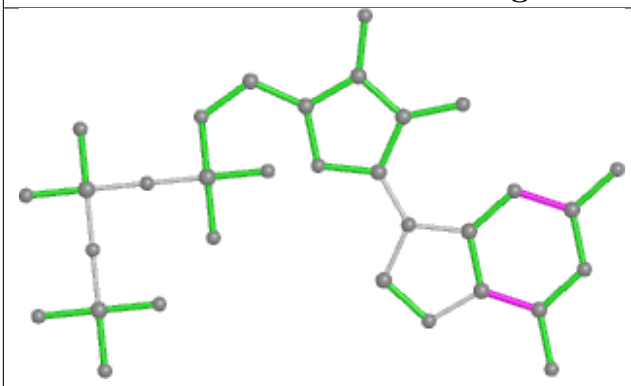
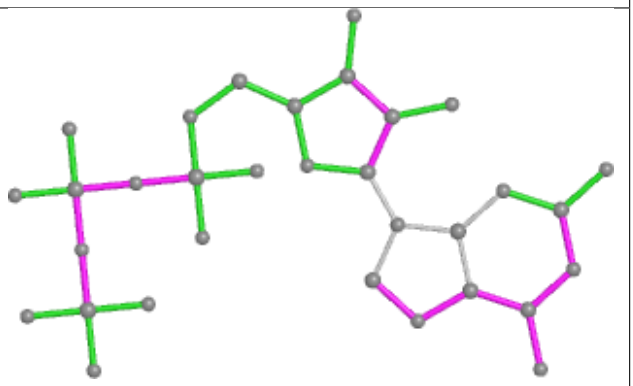


Rings

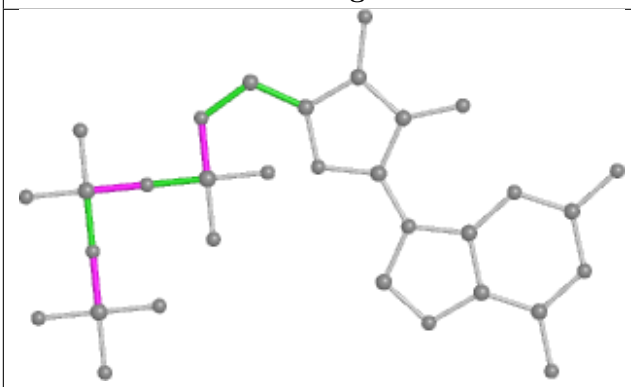
Ligand GTP NL 501



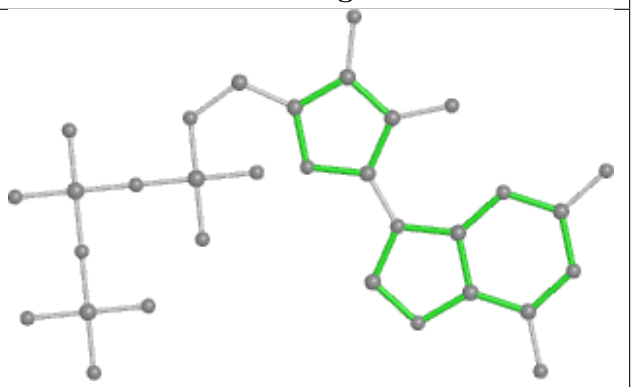
Bond lengths



Bond angles

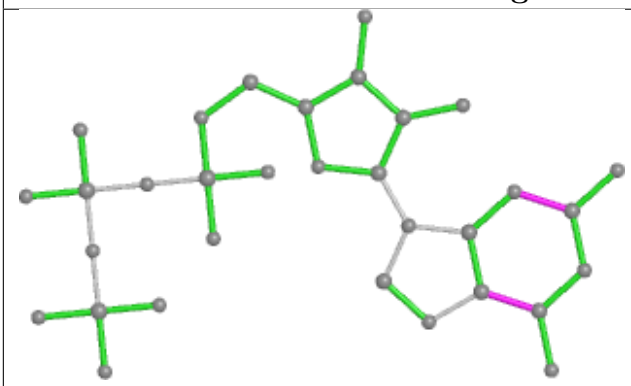


Torsions



Rings

Ligand GTP UL 501



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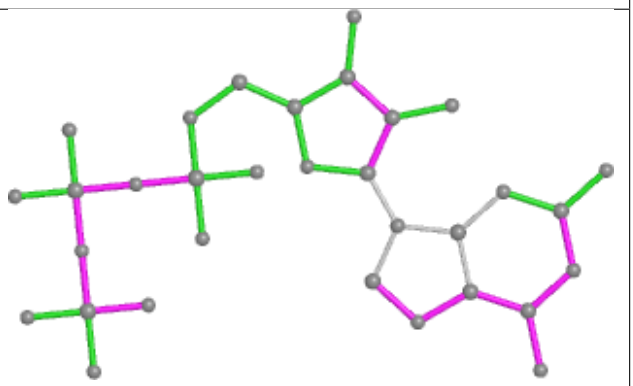

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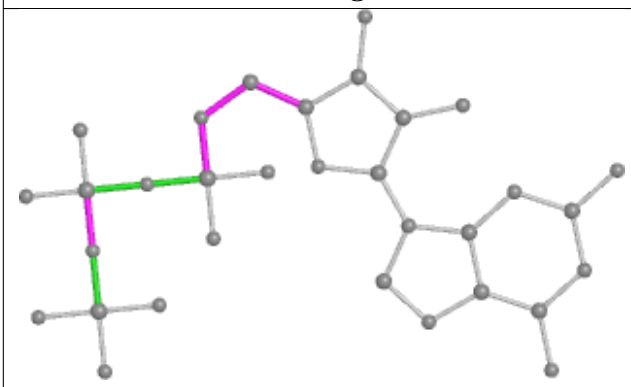

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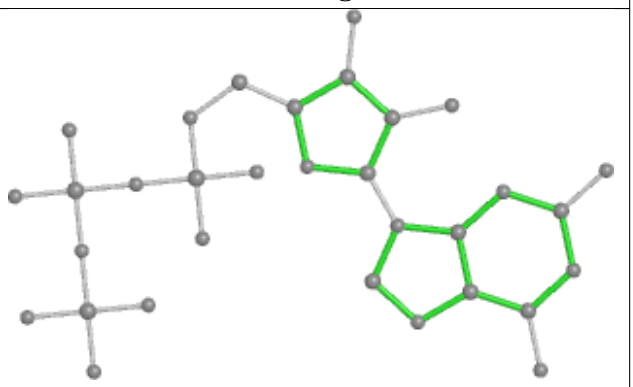
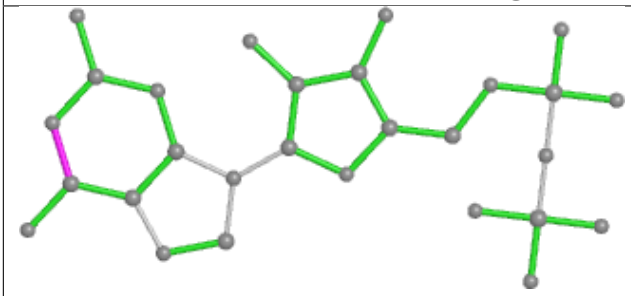


Rings

Ligand GDP QO 501



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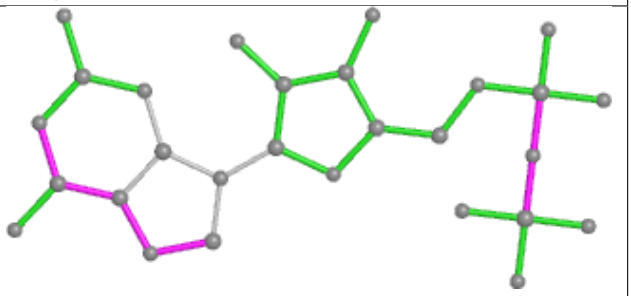

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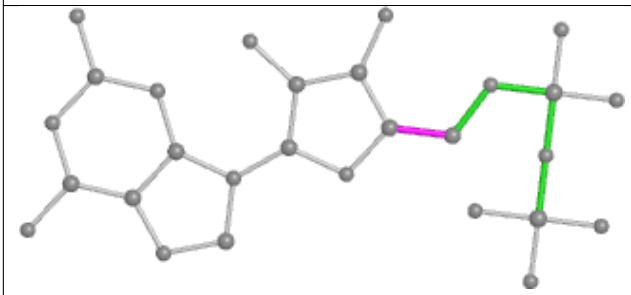

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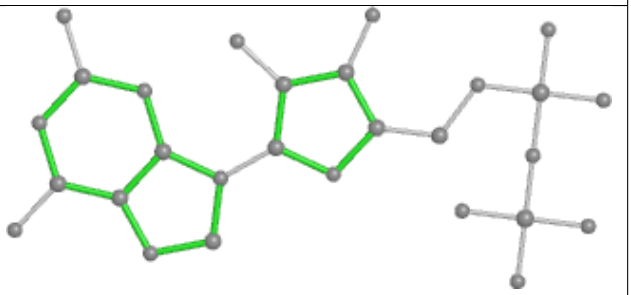
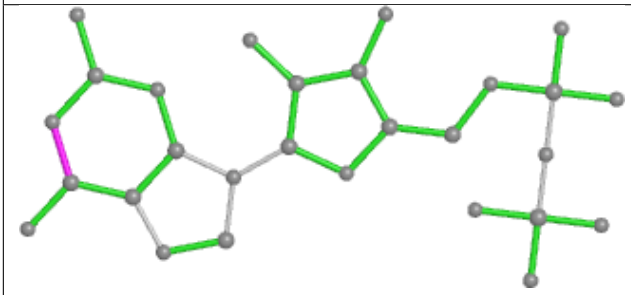


Rings

Ligand GDP SM 501



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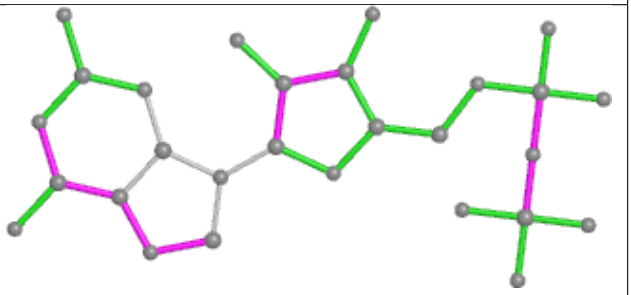

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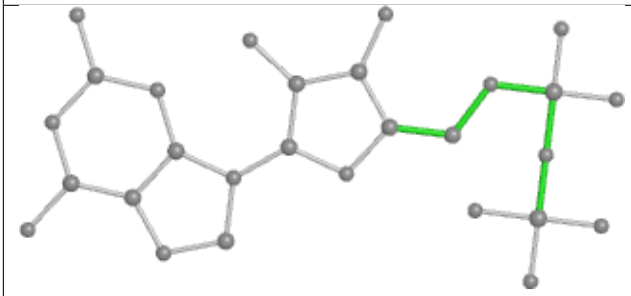

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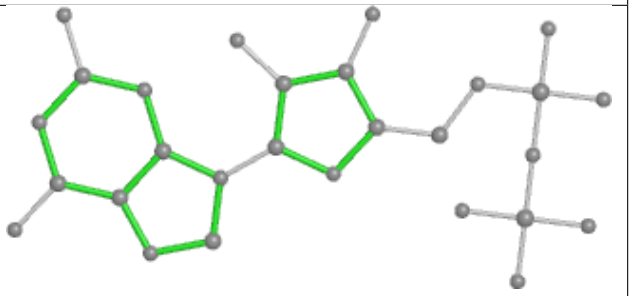
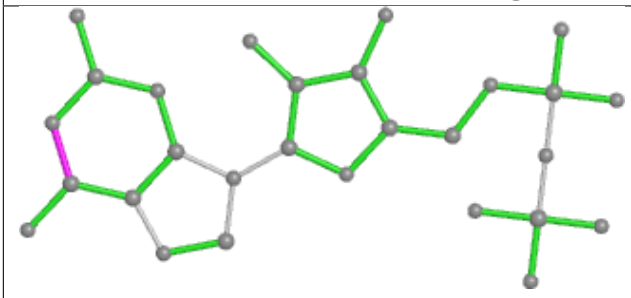
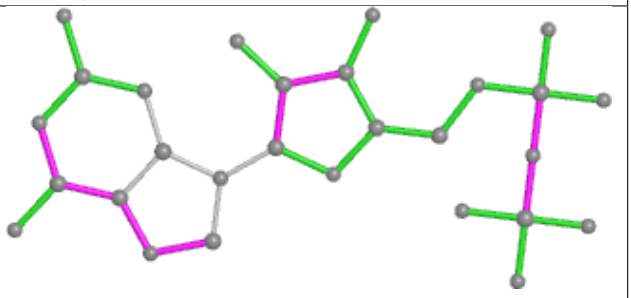
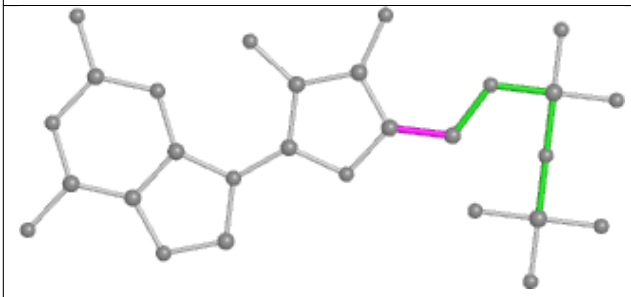
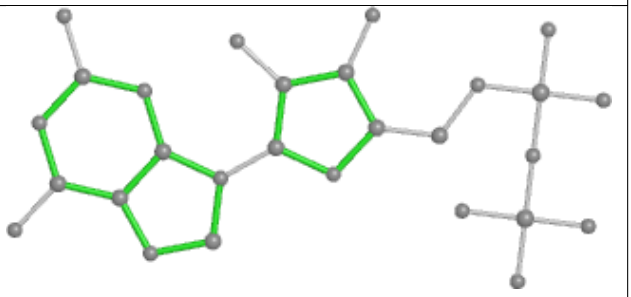
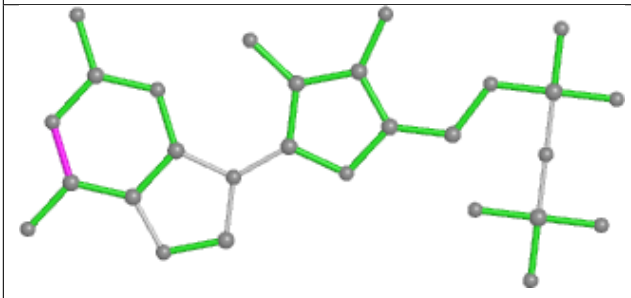
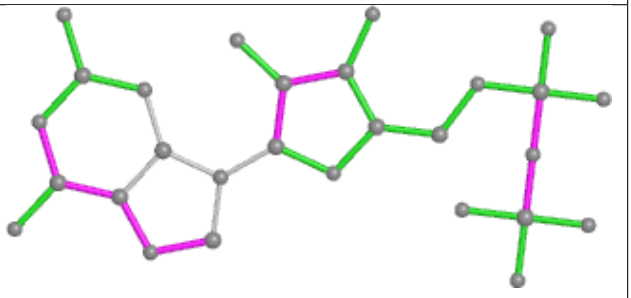
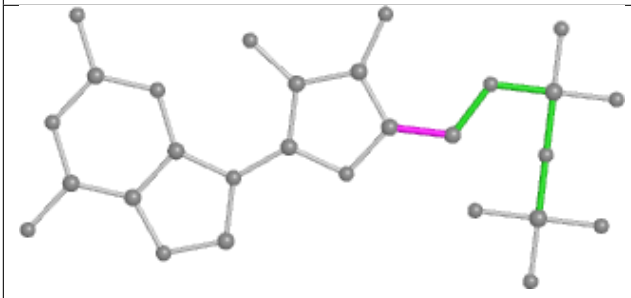
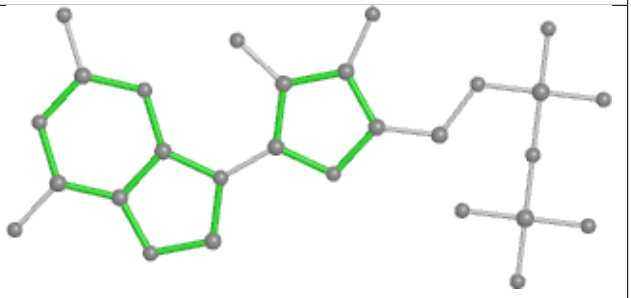
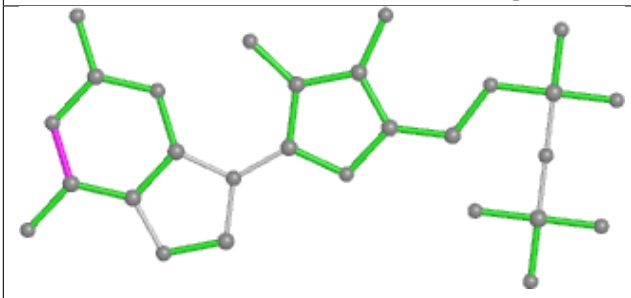


Rings

Ligand GDP OQ 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GDP VO 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GDP XG 501



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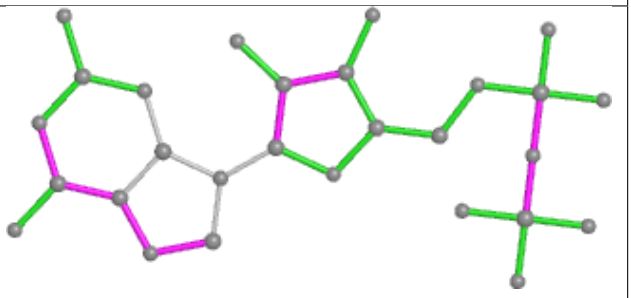

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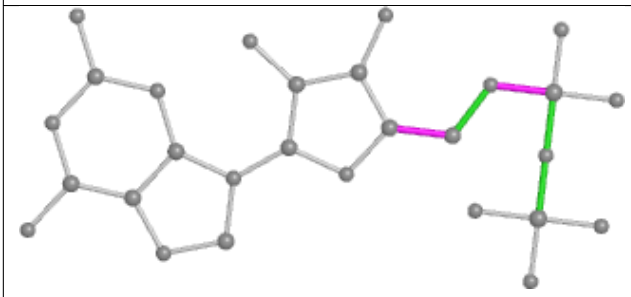

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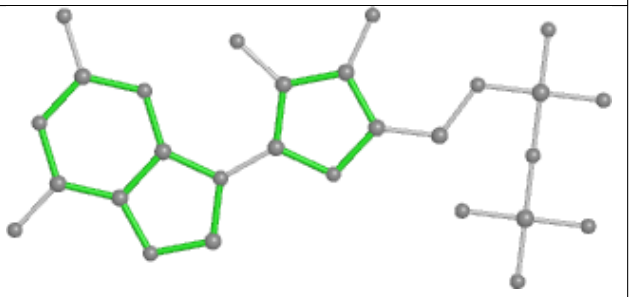
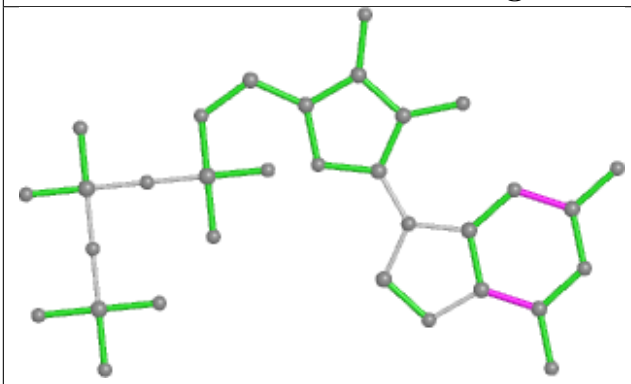


Rings

Ligand GTP WF 501



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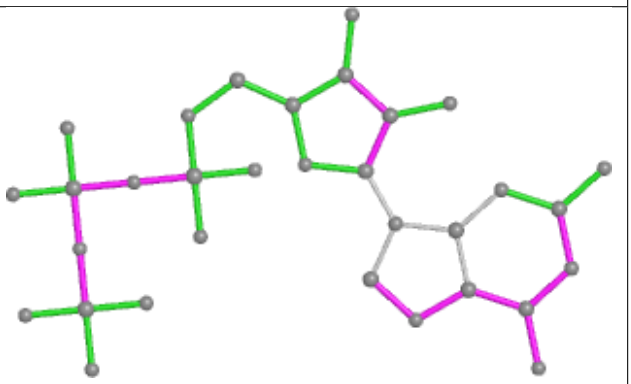

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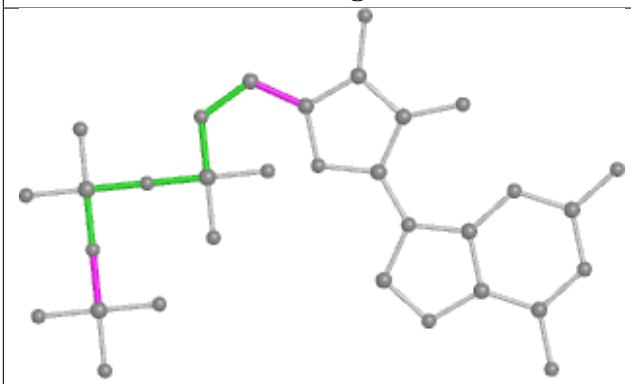

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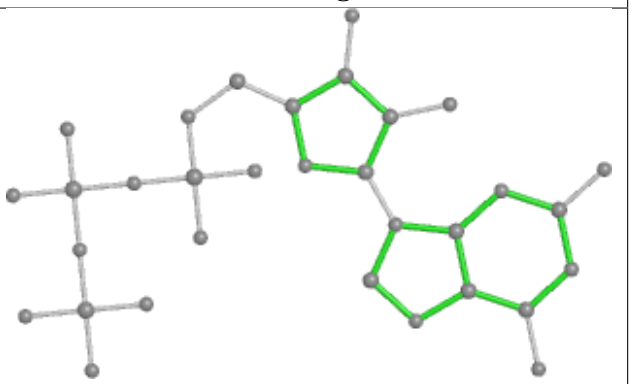
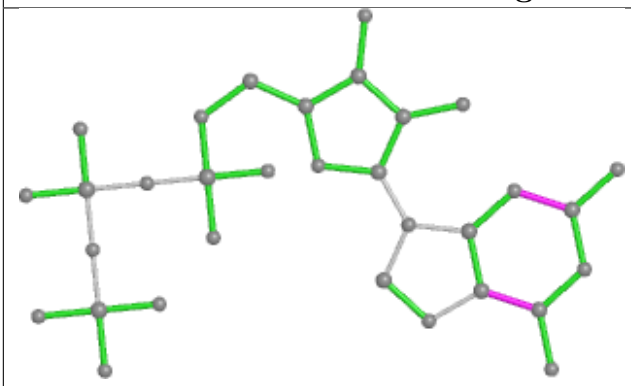


Rings

Ligand GTP ZJ 501



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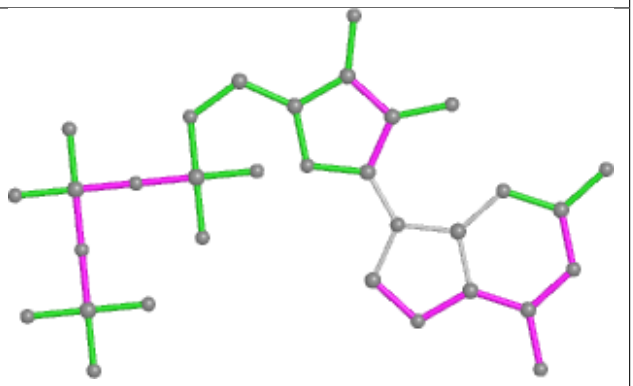

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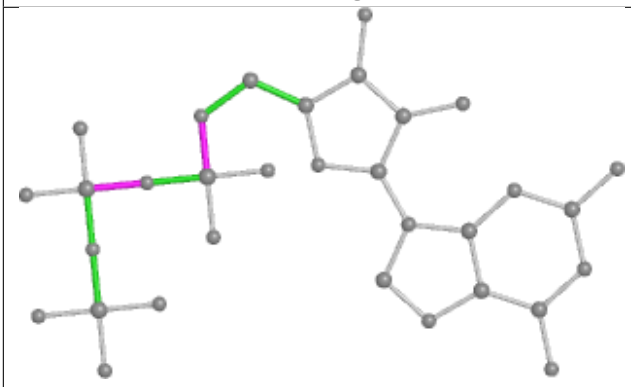

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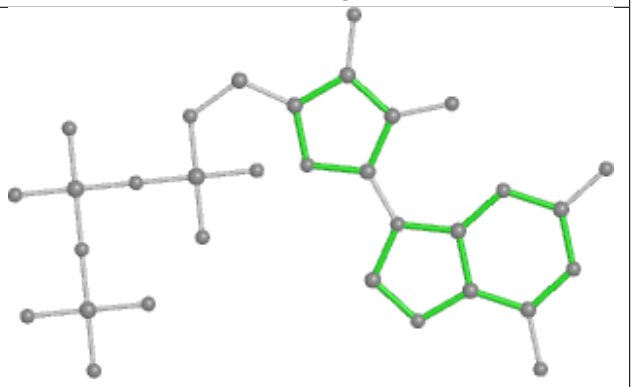
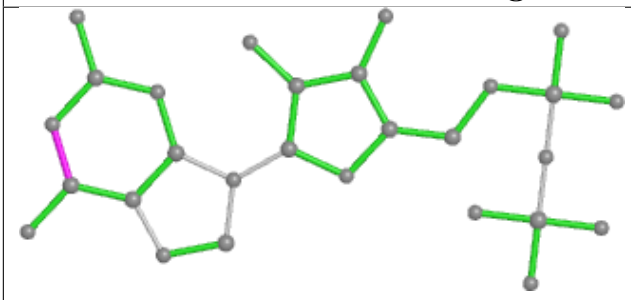


Rings

Ligand GDP RG 501



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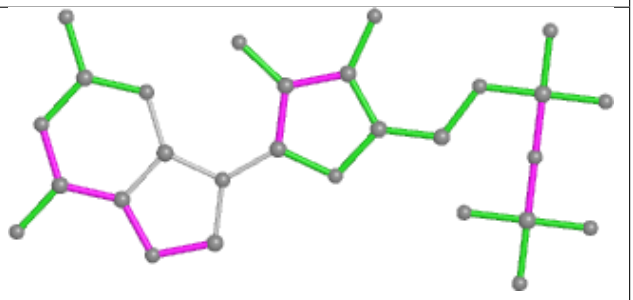

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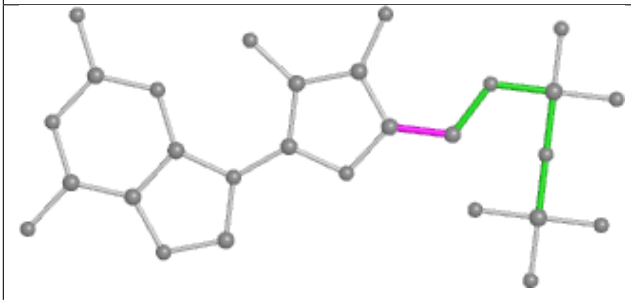

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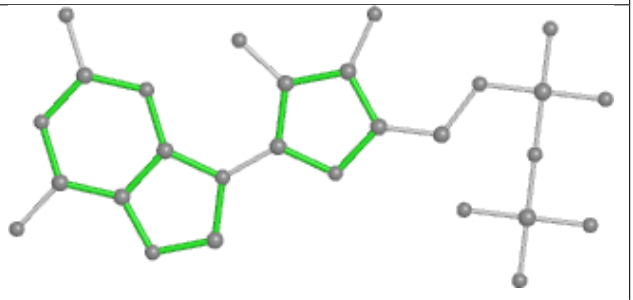
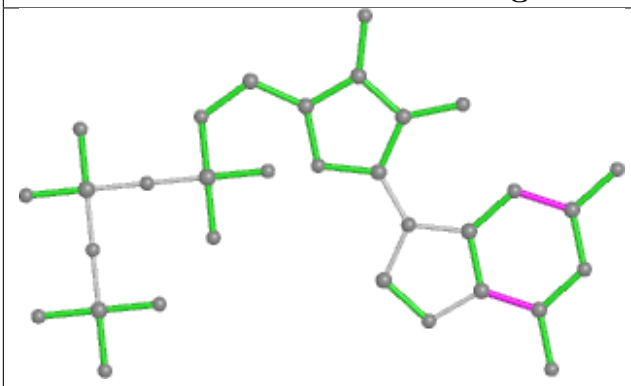


Rings

Ligand GTP XF 501



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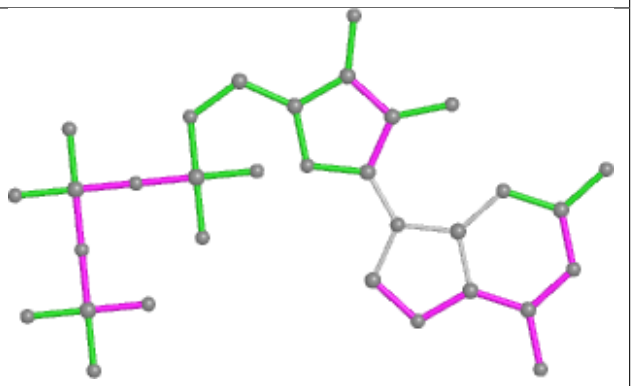

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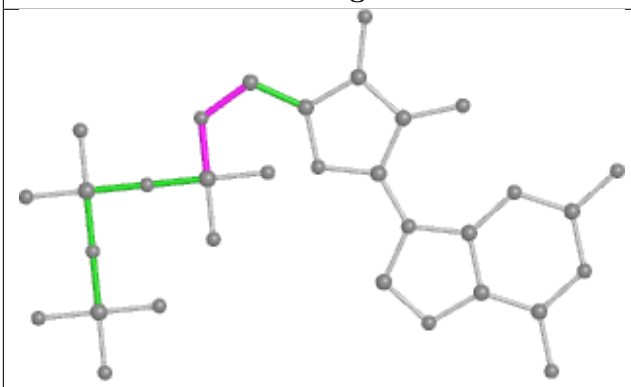

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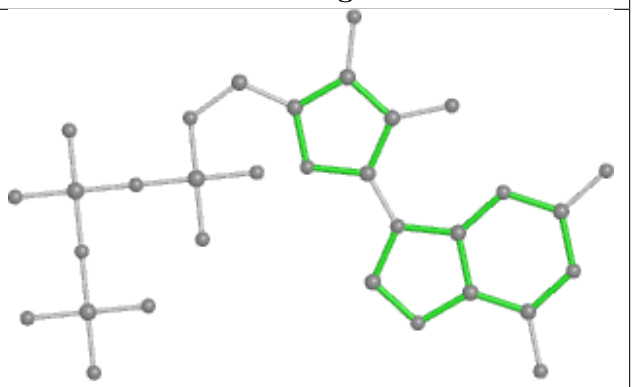
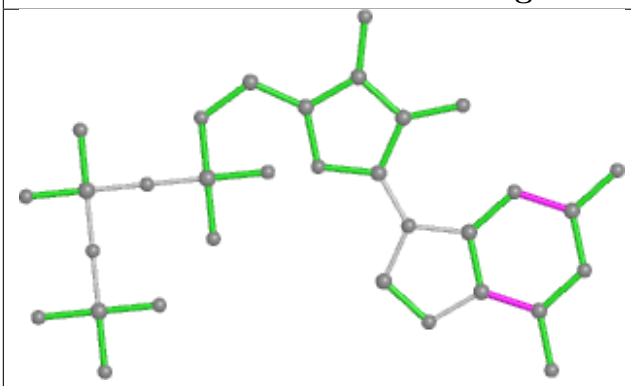


Rings

Ligand GTP SL 501



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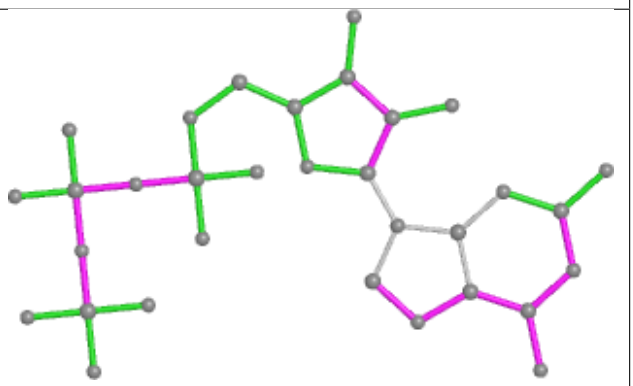
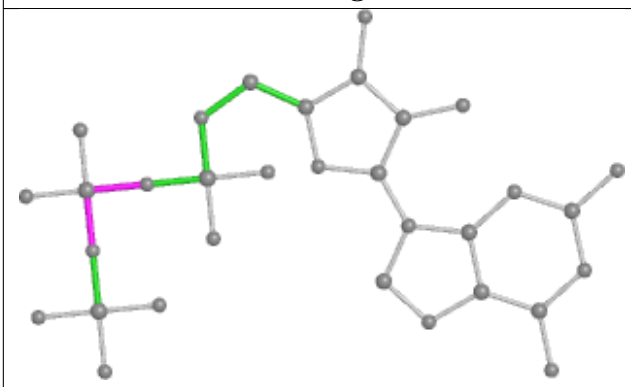


Bond angles



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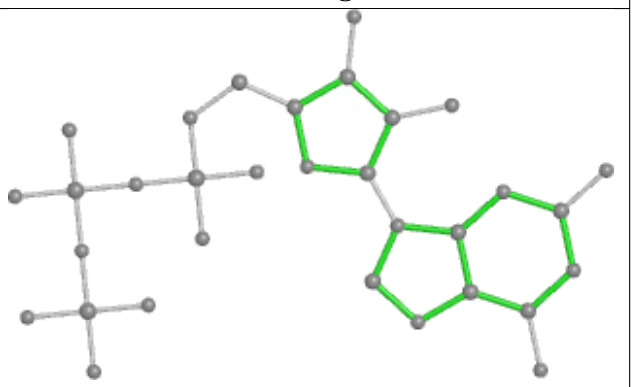
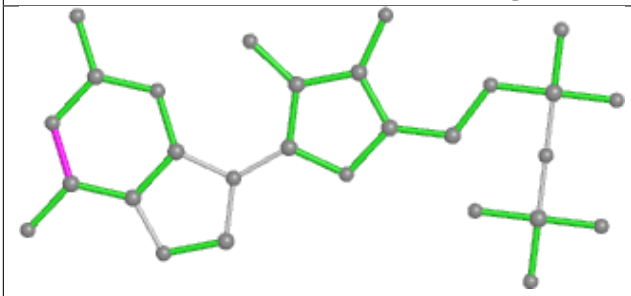


Rings

Ligand GDP QG 501



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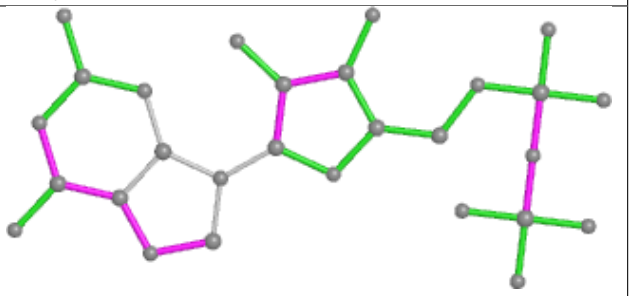

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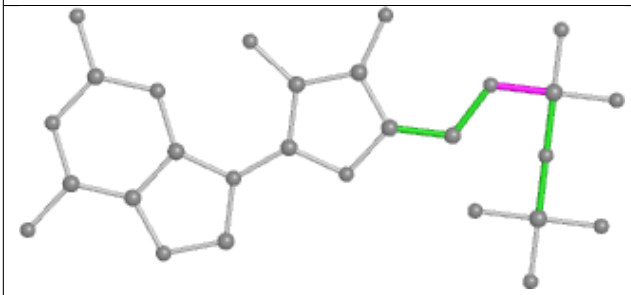

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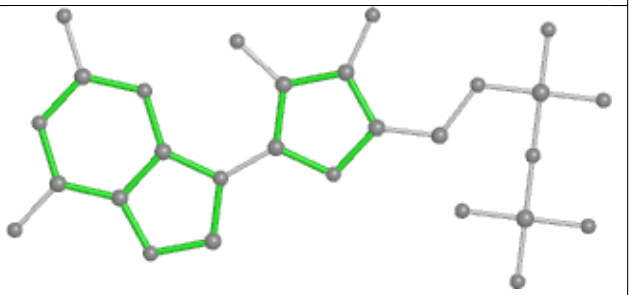
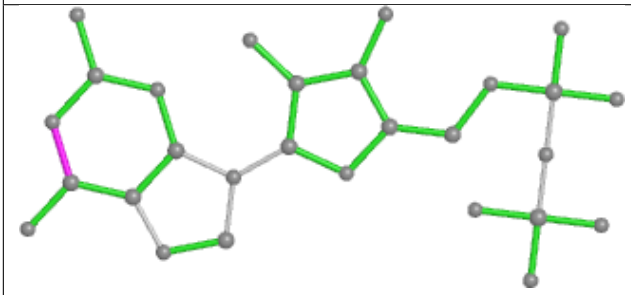


Rings

Ligand GDP NC 501



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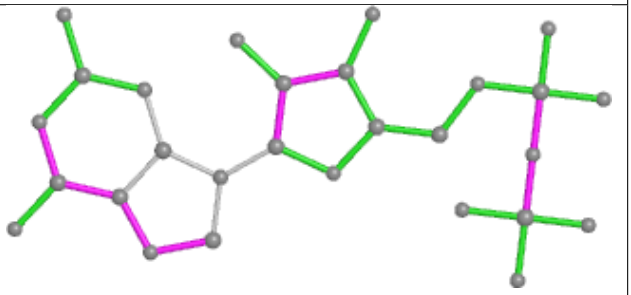
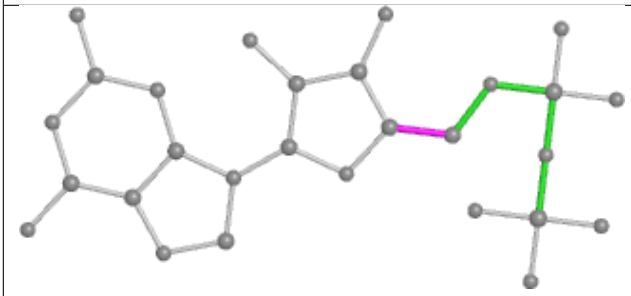


Bond angles



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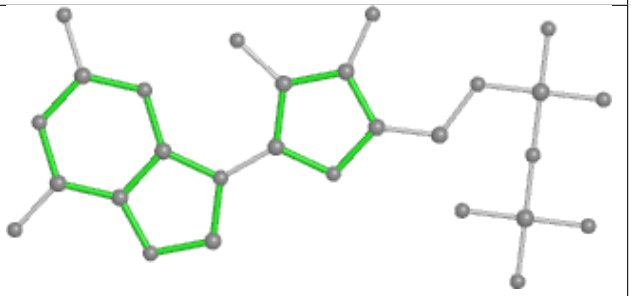
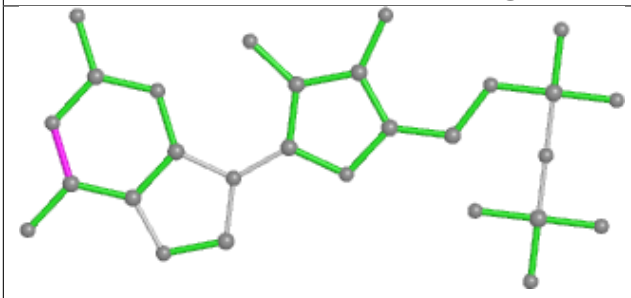
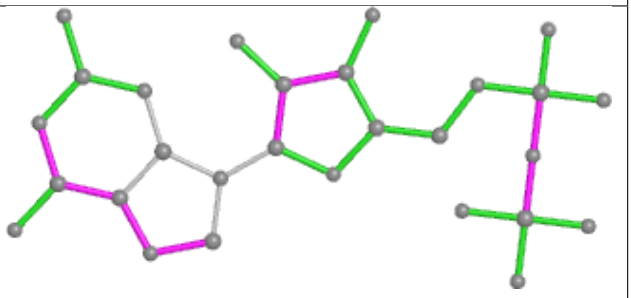
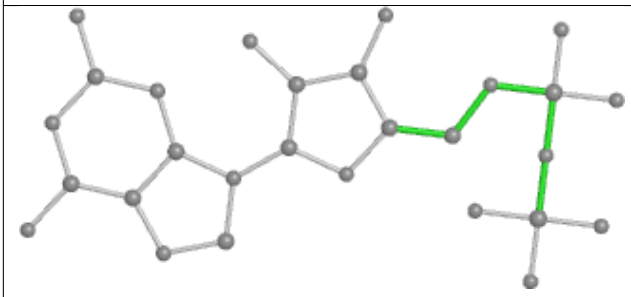
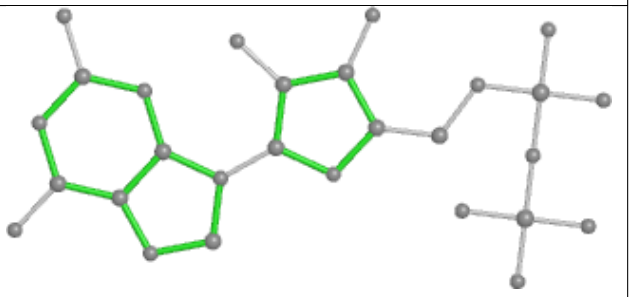


Rings

Ligand GDP WK 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

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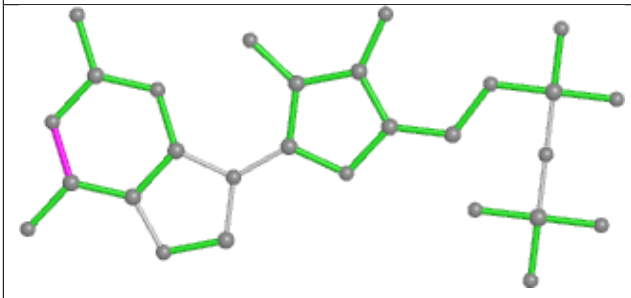
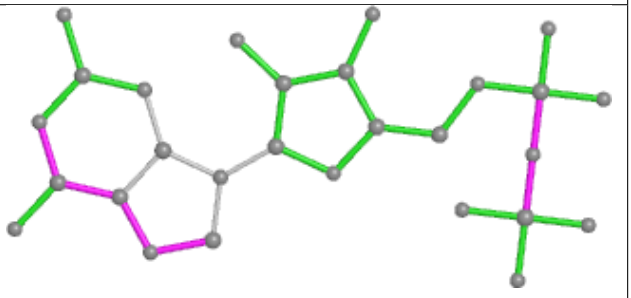
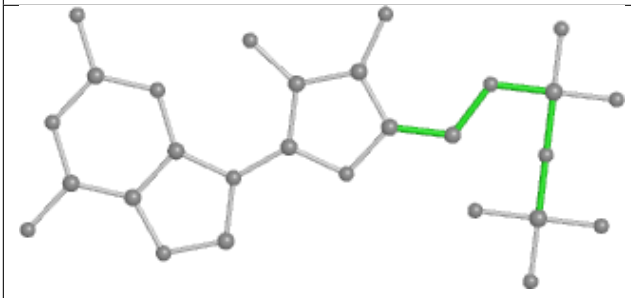
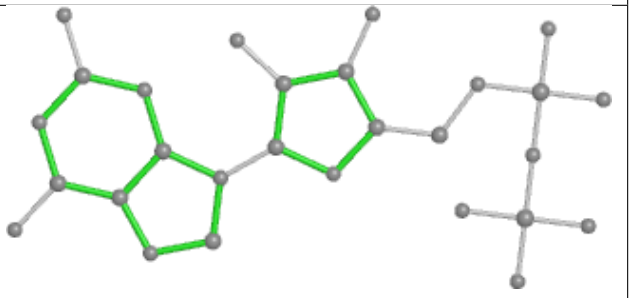
 Bond lengths	 Bond angles
 Torsions	 Rings

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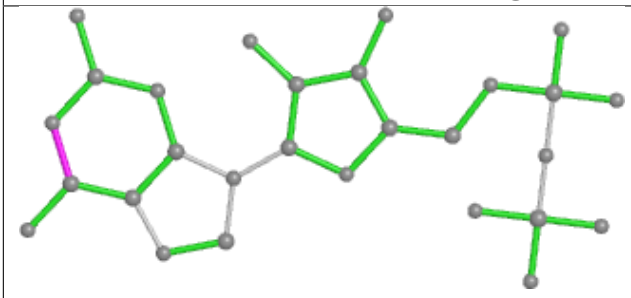
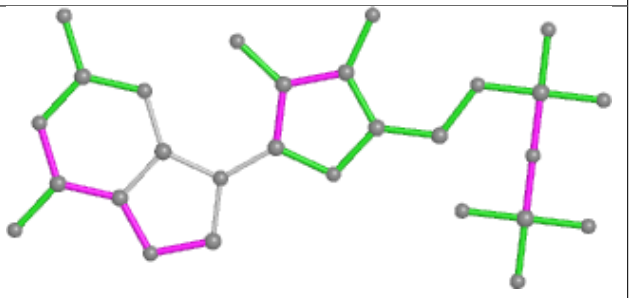
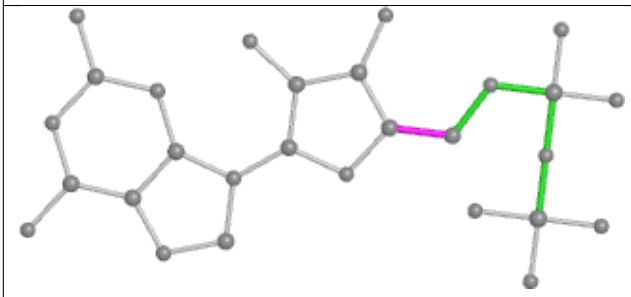
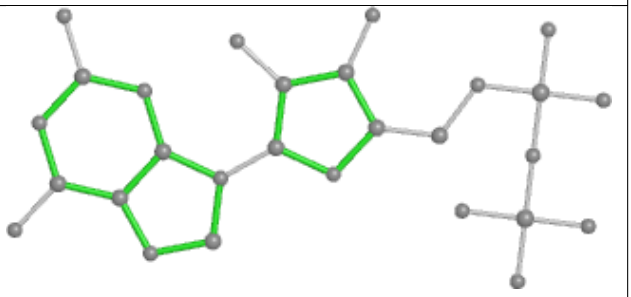
 Bond lengths	 Bond angles
 Torsions	 Rings

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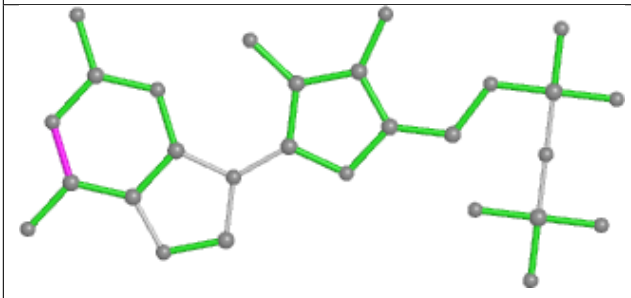
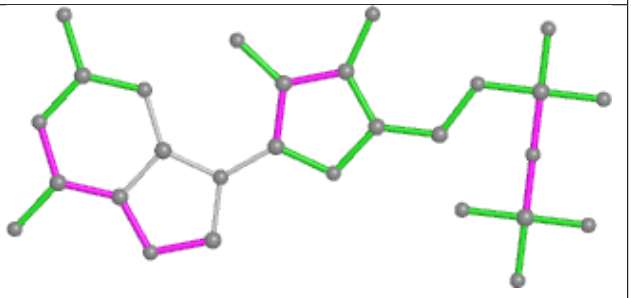
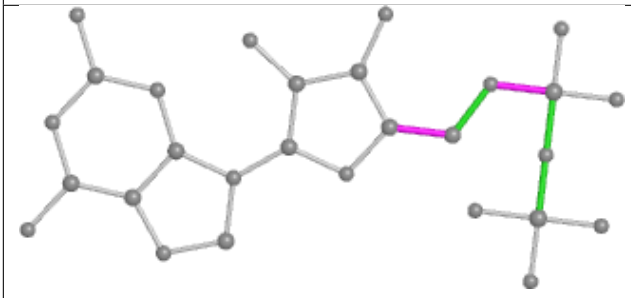
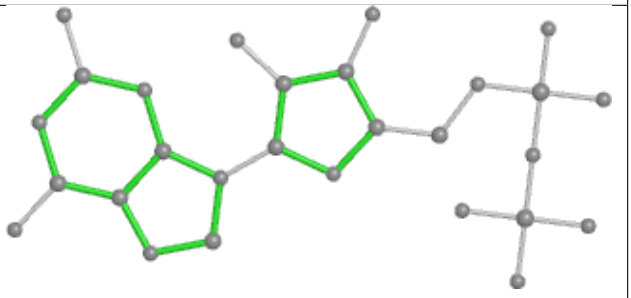
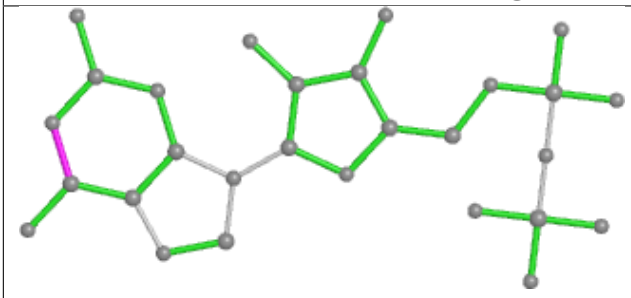
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GDP XC 501



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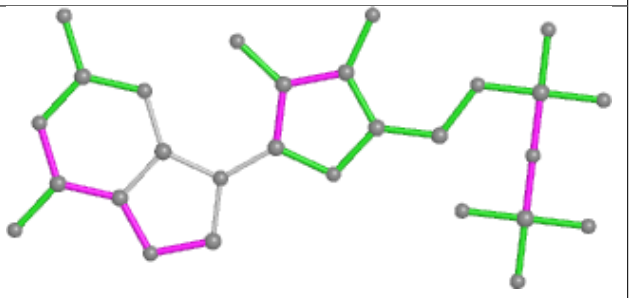

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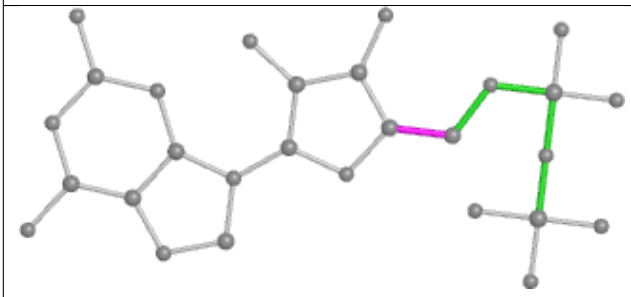

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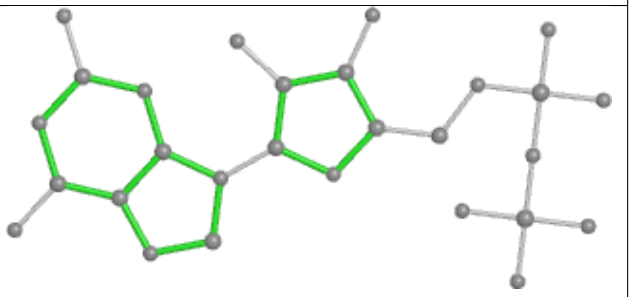
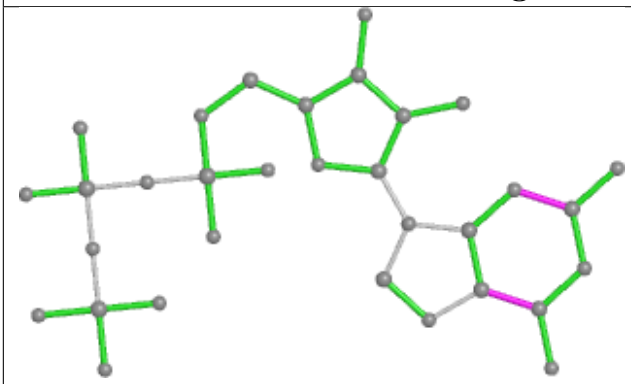


Rings

Ligand GTP ZN 501



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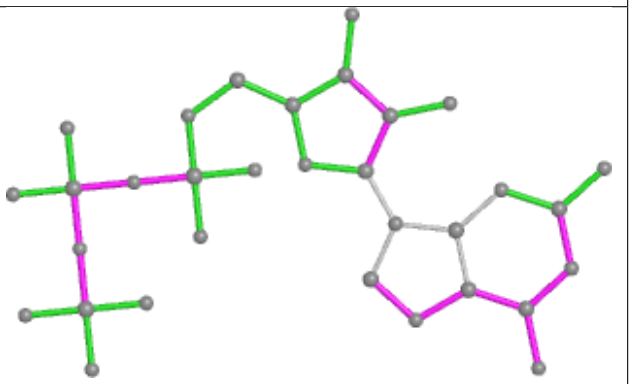

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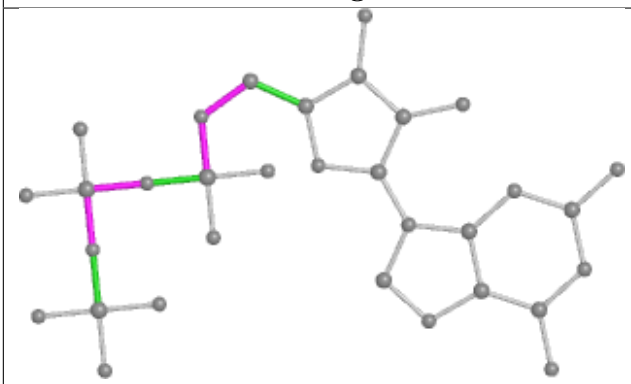

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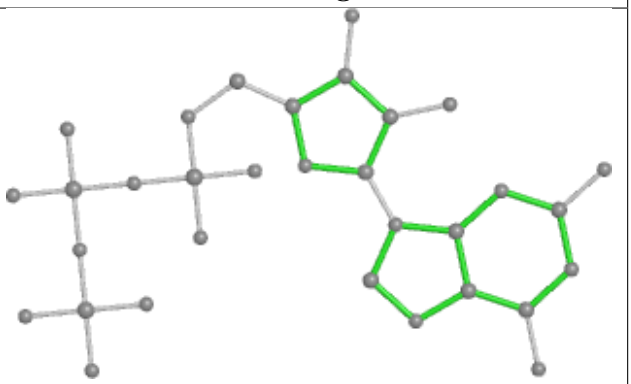

Rings

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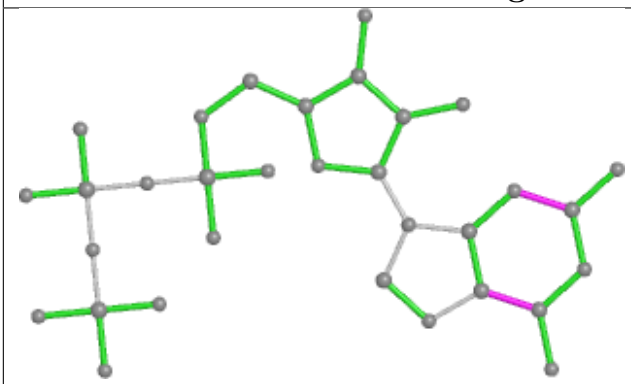

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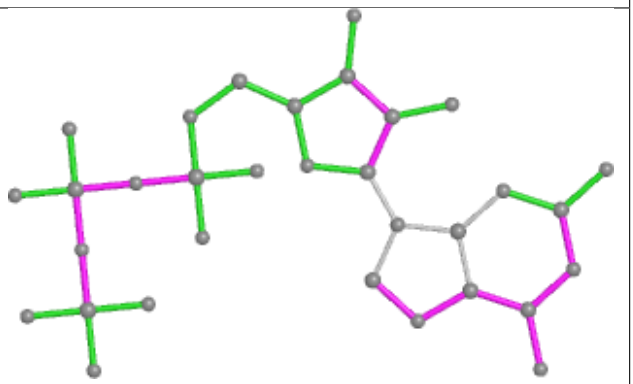

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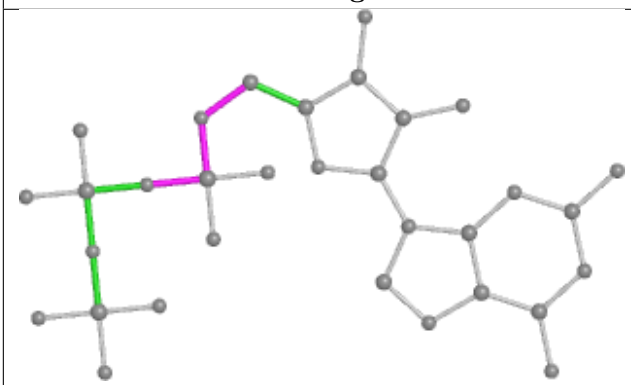

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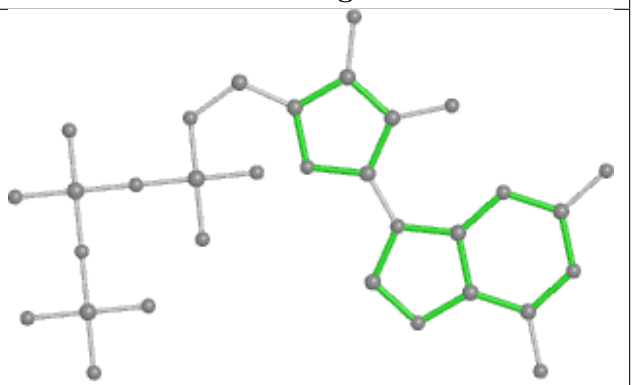

Rings

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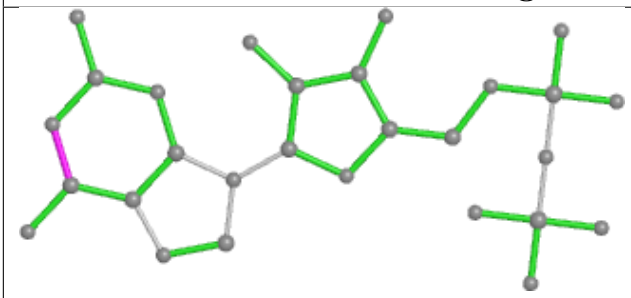

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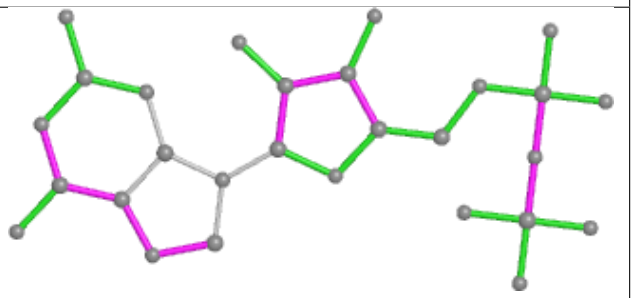

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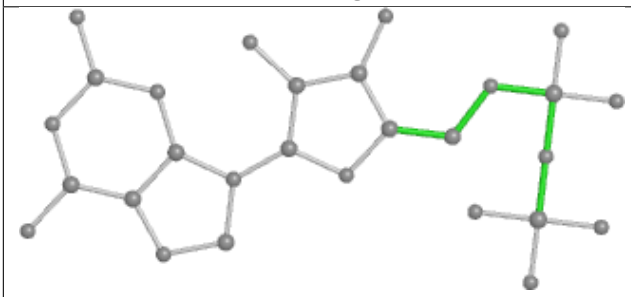

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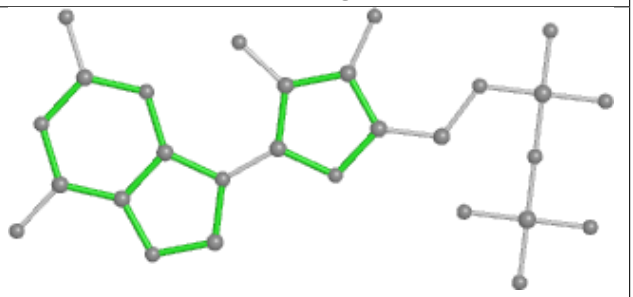

Rings

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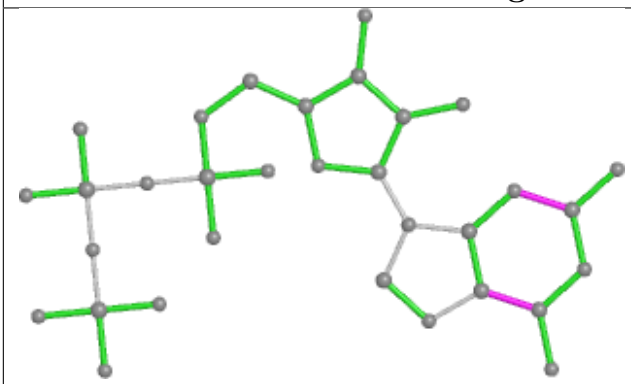

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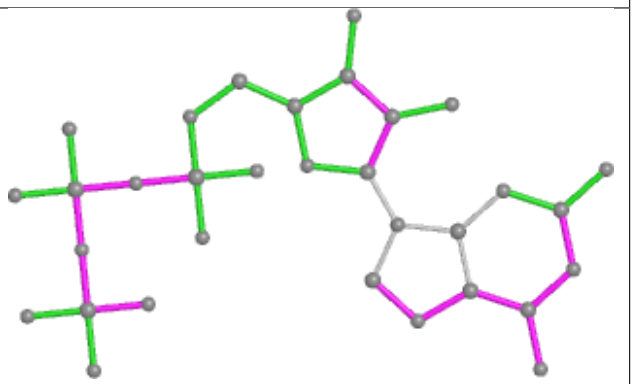

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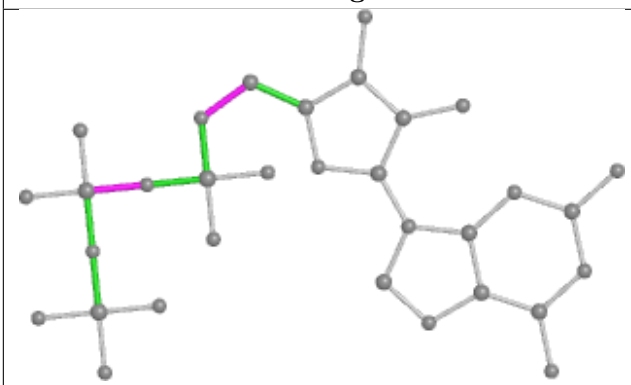

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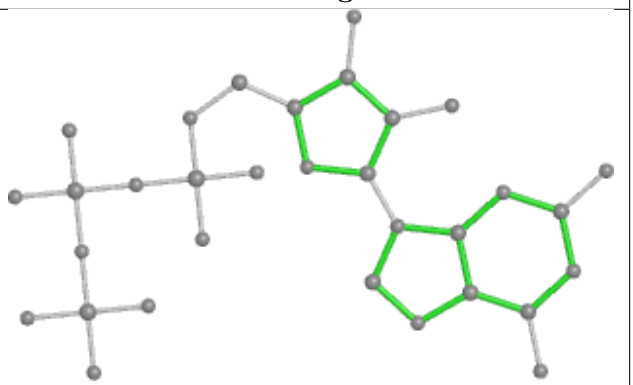

Rings

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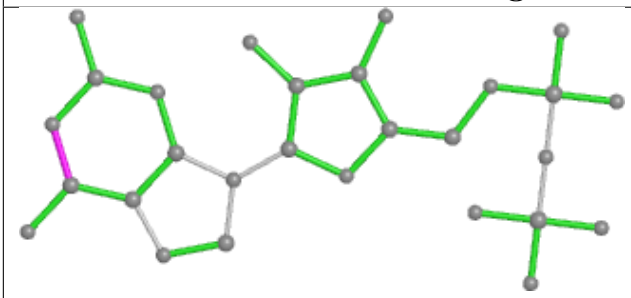

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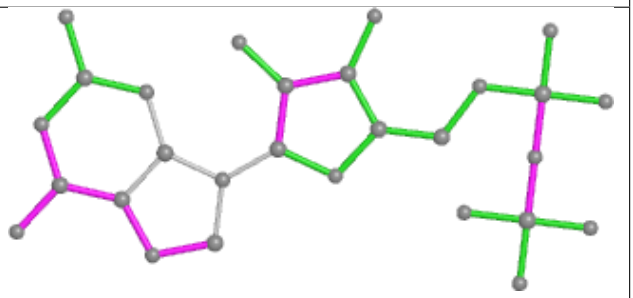

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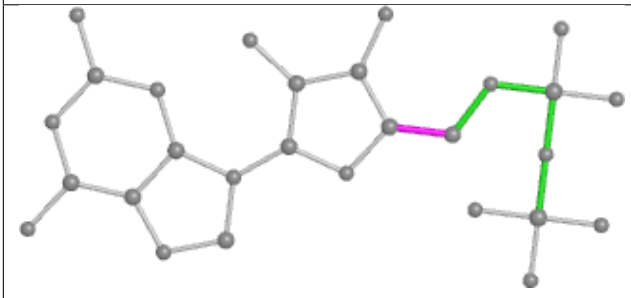

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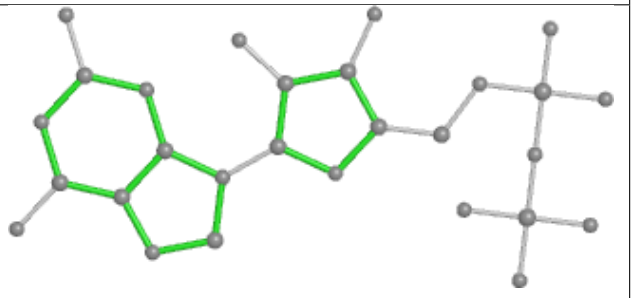

Rings

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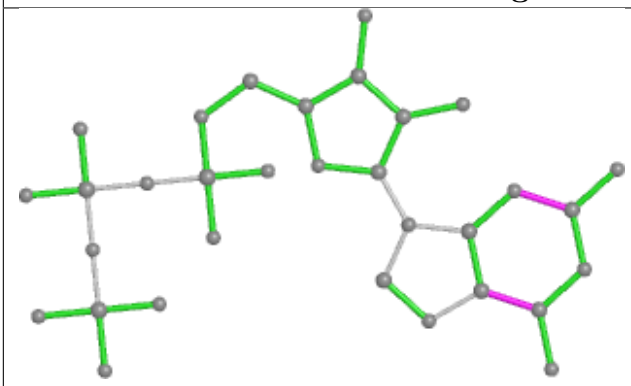

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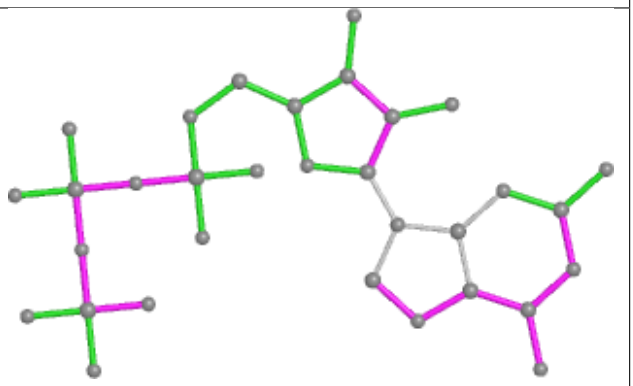

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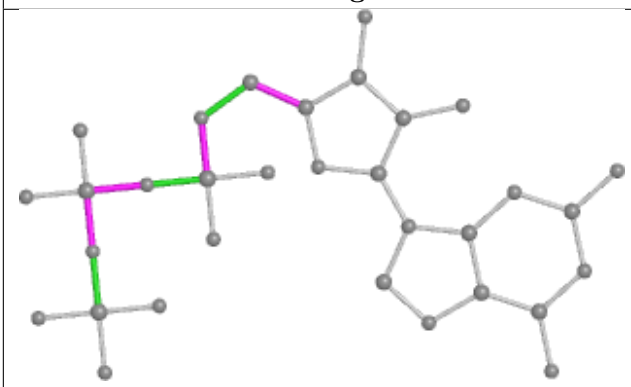

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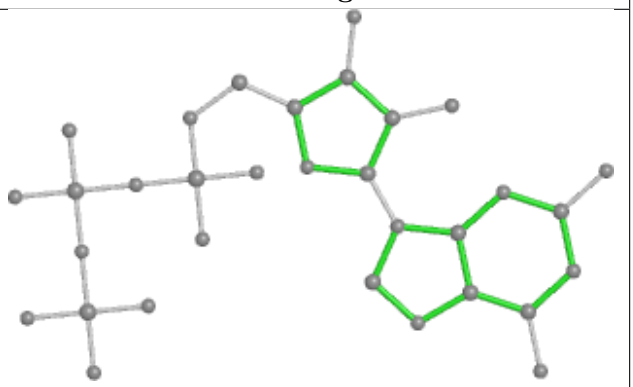
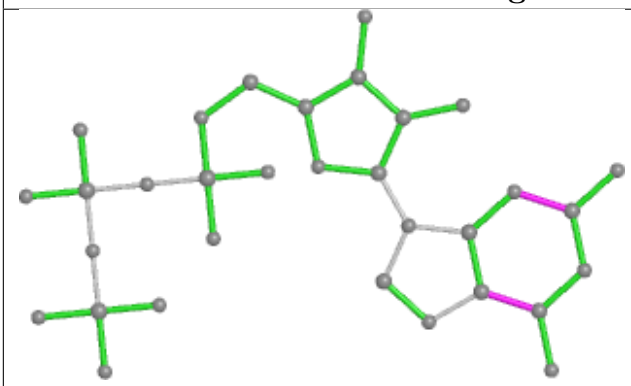


Rings

Ligand GTP YD 501



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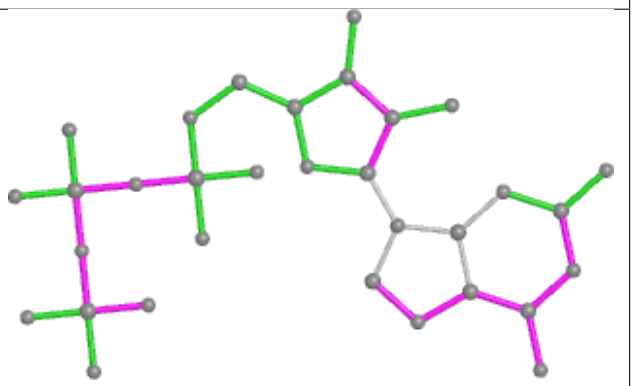

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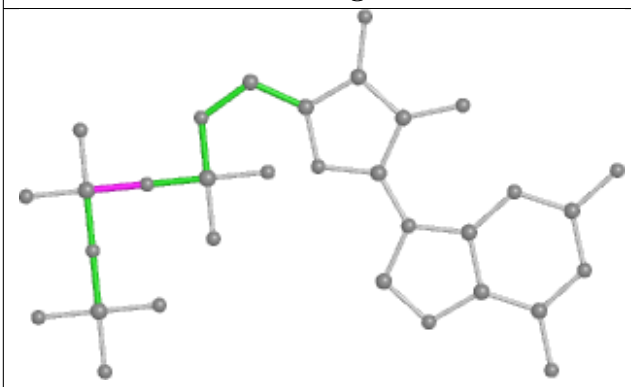

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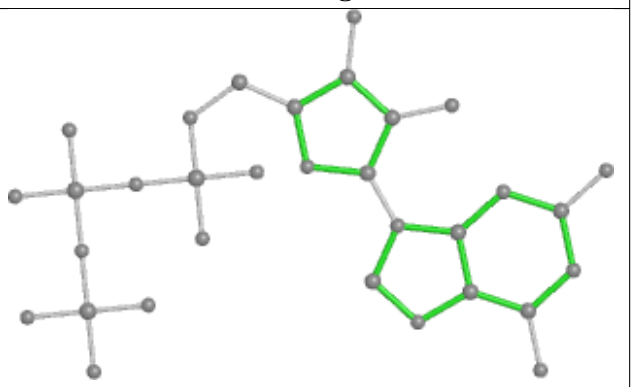
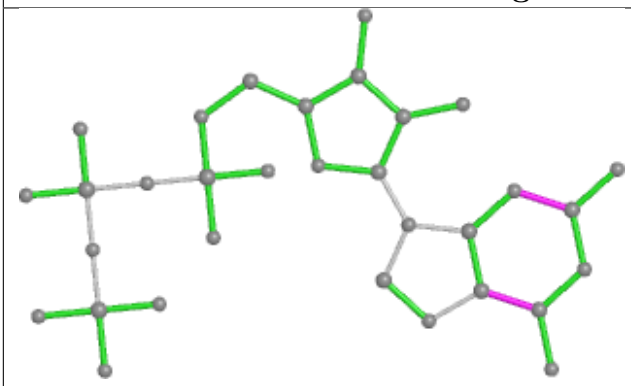


Rings

Ligand GTP ZP 501



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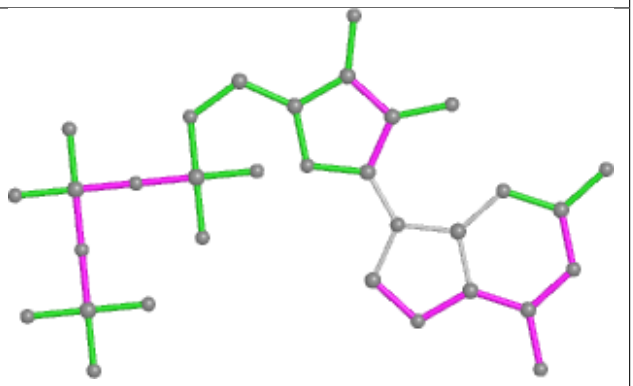

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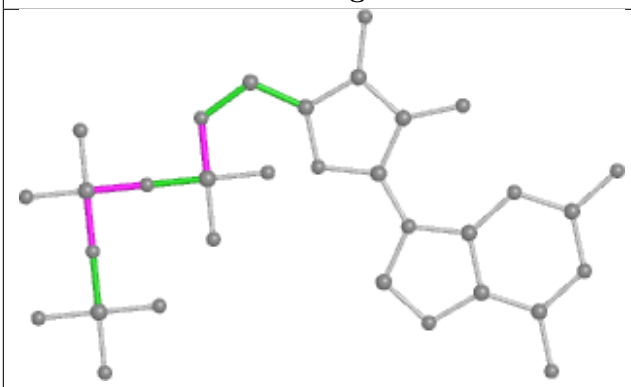

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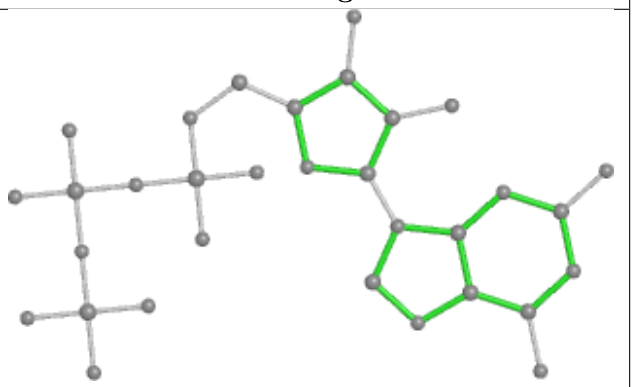
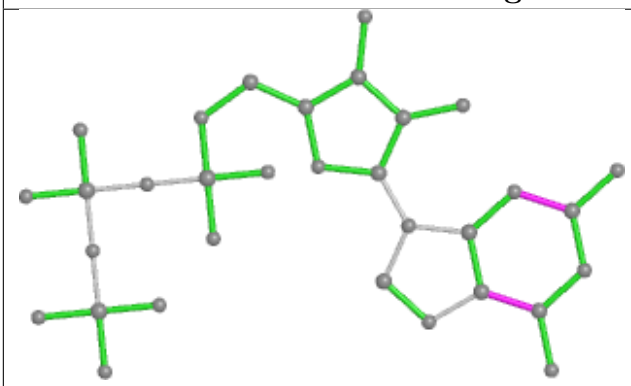


Rings

Ligand GTP WB 501



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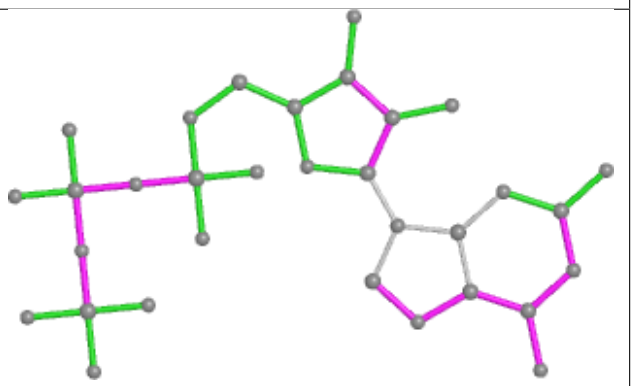

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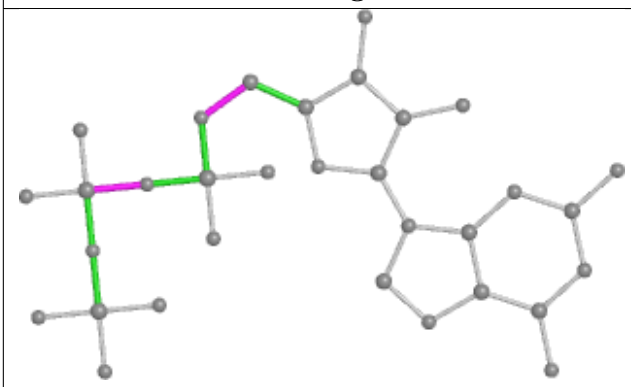

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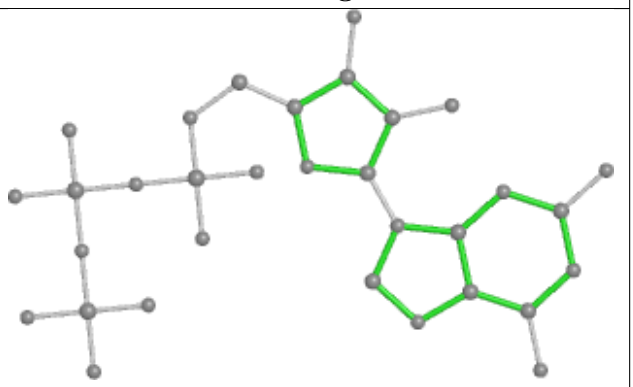
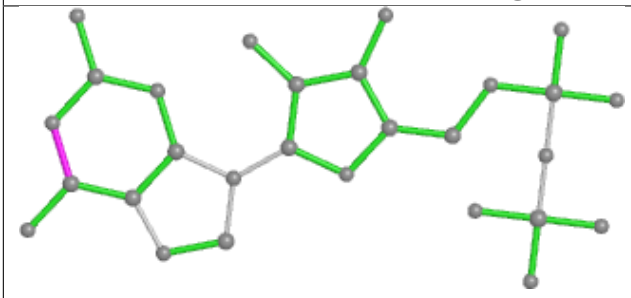


Rings

Ligand GDP YE 501



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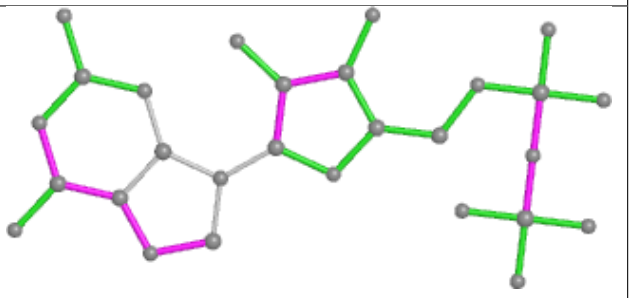

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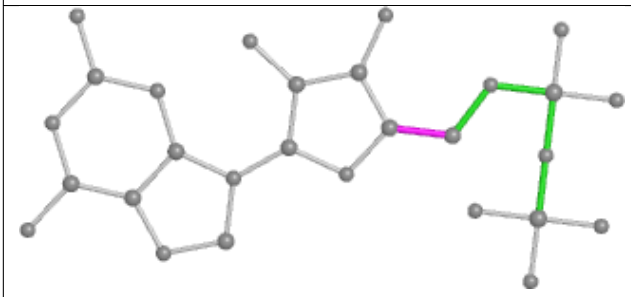
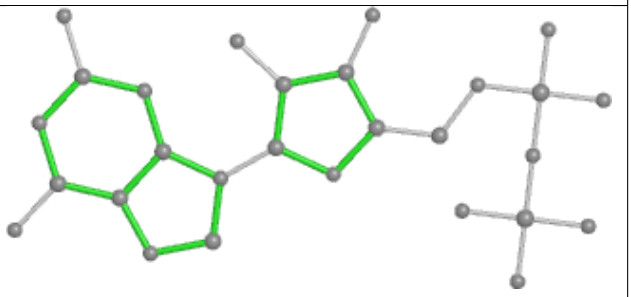
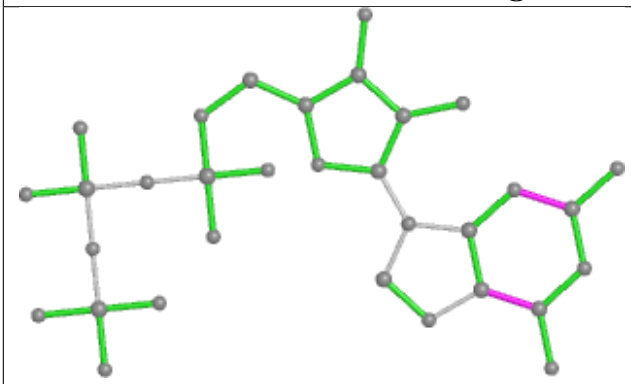


Torsions



Rings

Ligand GTP NH 501



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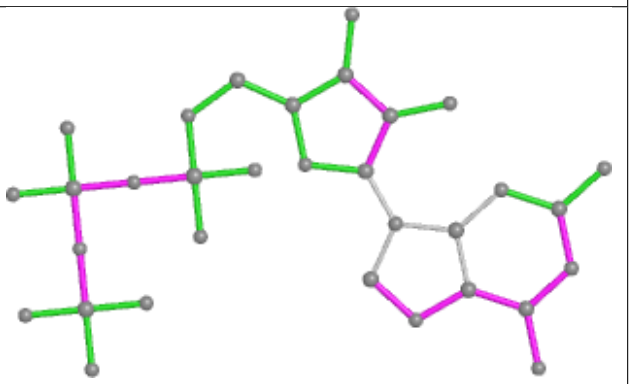

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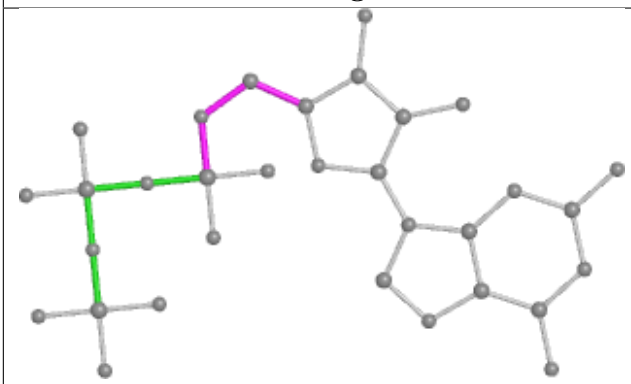

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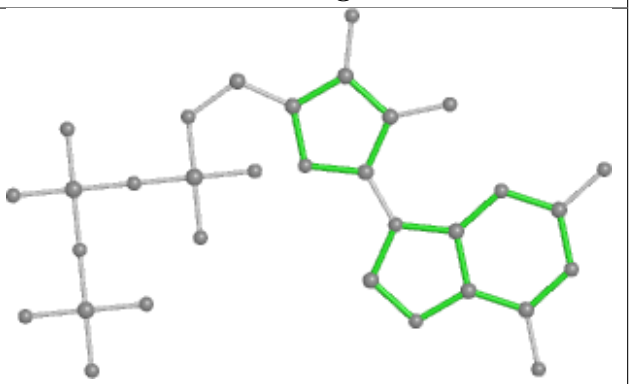

Rings

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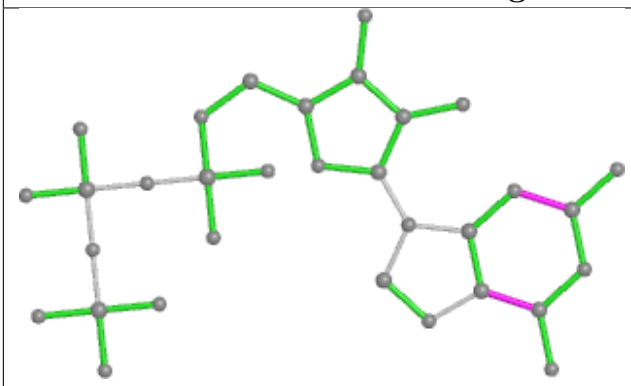

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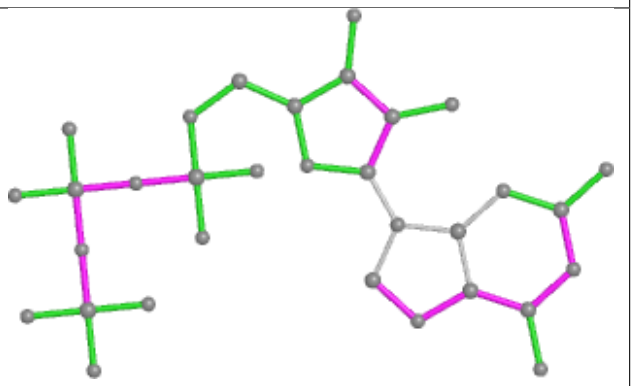

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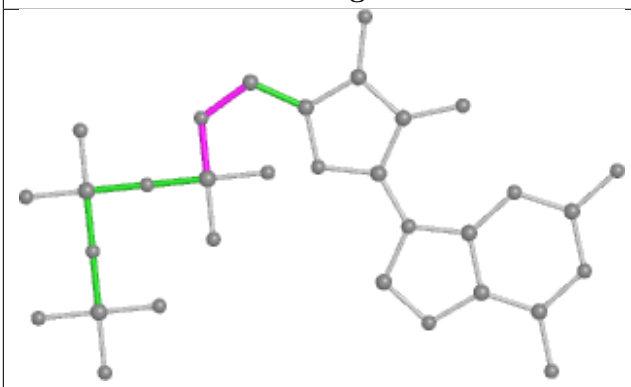

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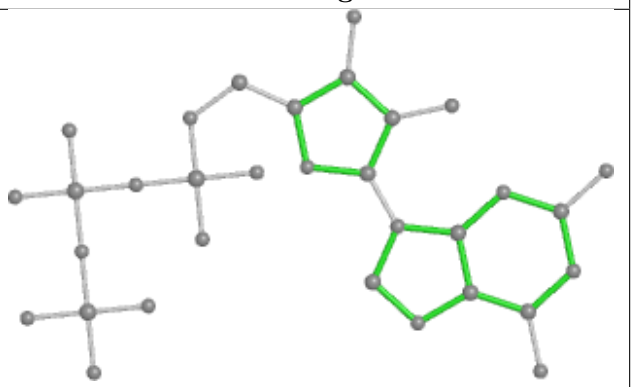
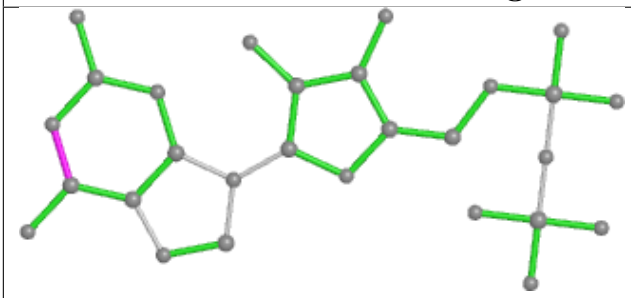


Rings

Ligand GDP ZM 501



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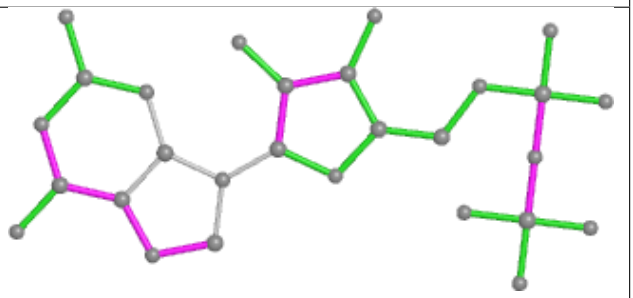

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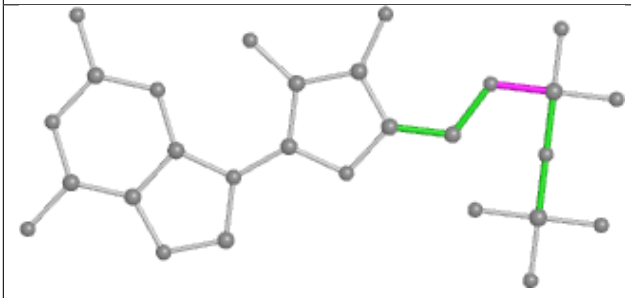

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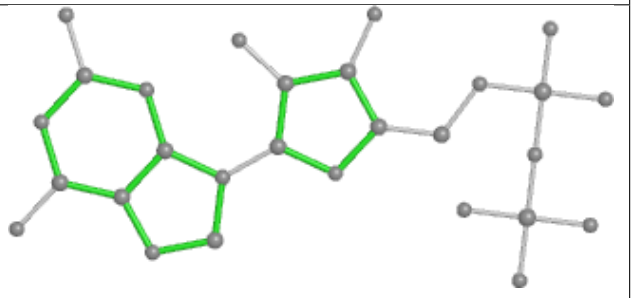
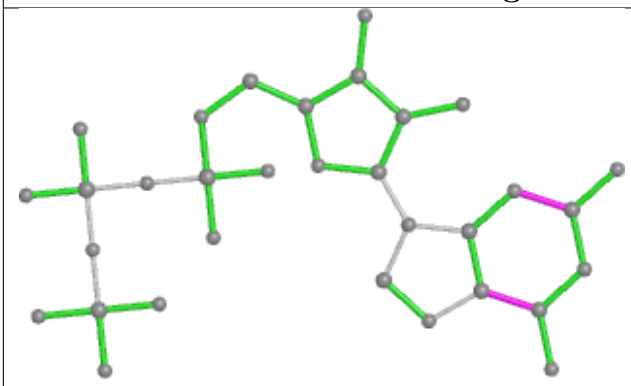


Rings

Ligand GTP WH 501



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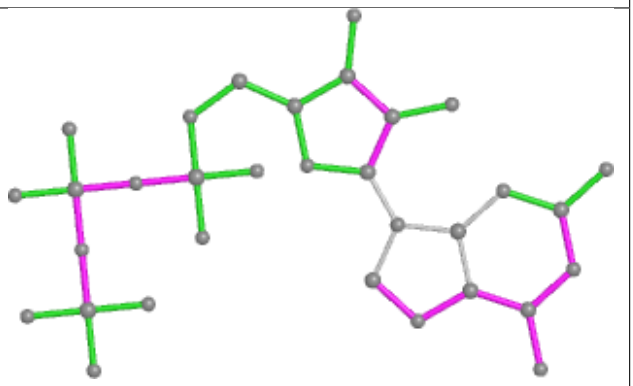

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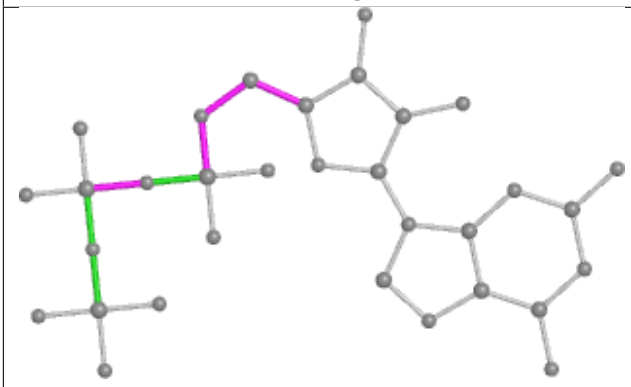

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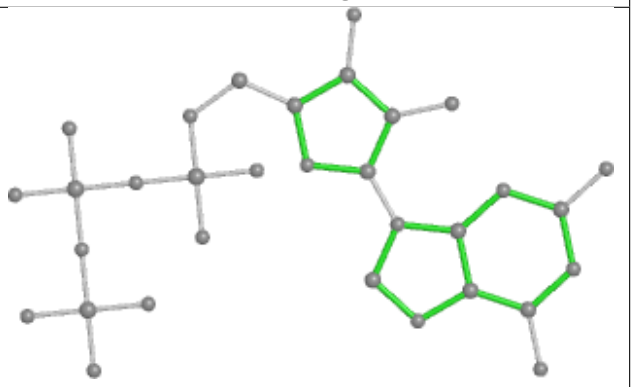
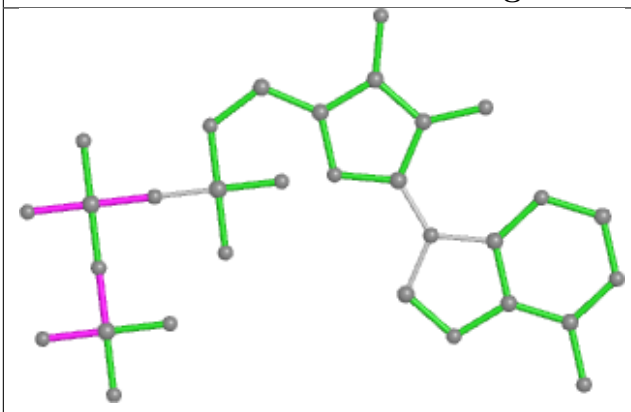


Rings

Ligand ANP C2 2001



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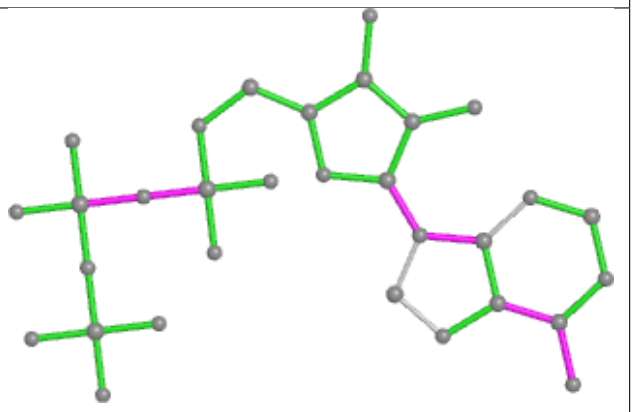

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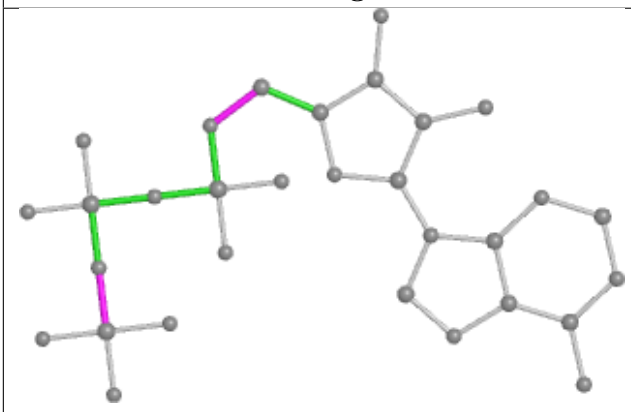

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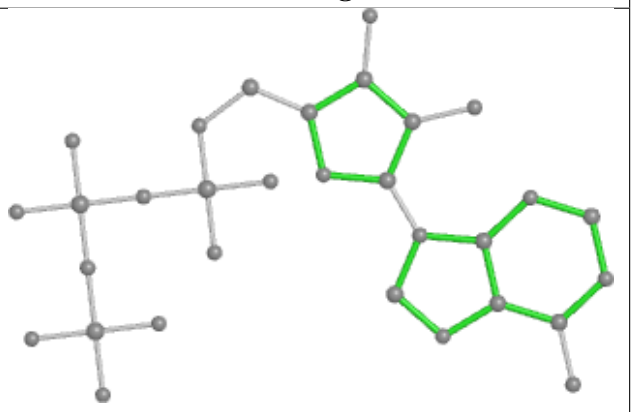
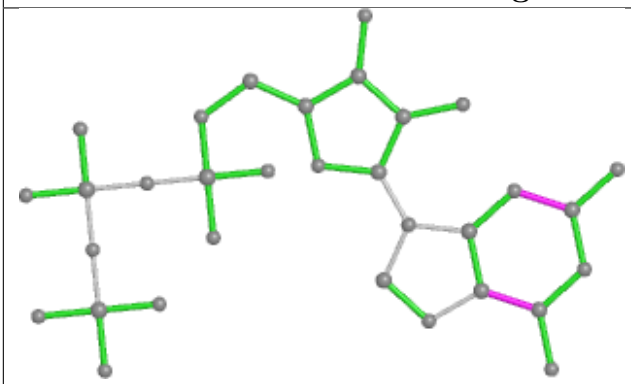


Rings

Ligand GTP ZB 501



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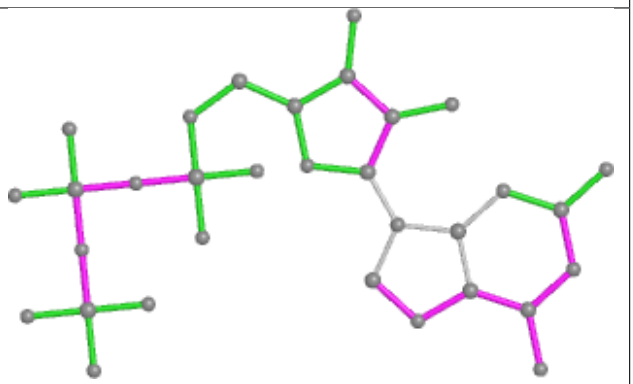

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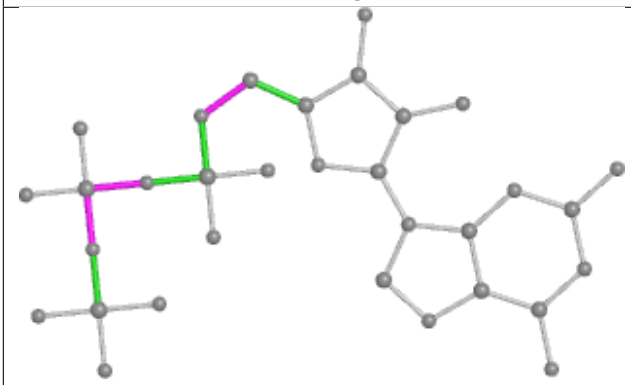

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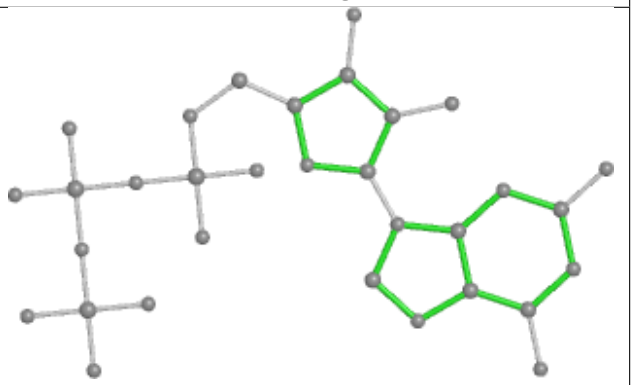
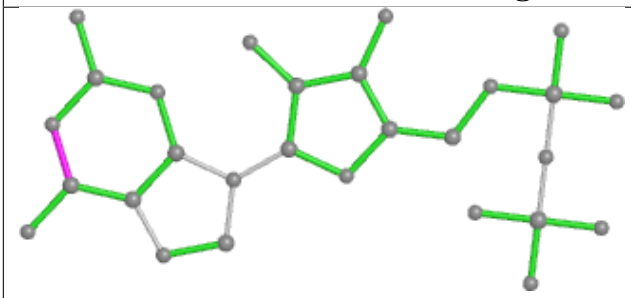


Rings

Ligand GDP VI 501



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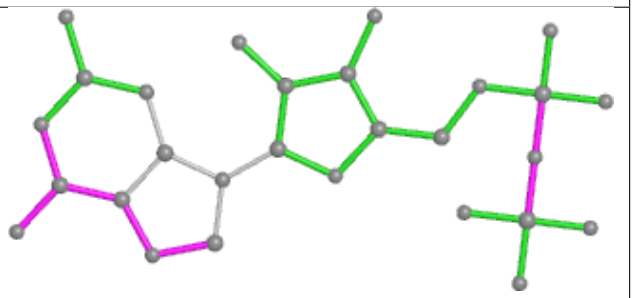

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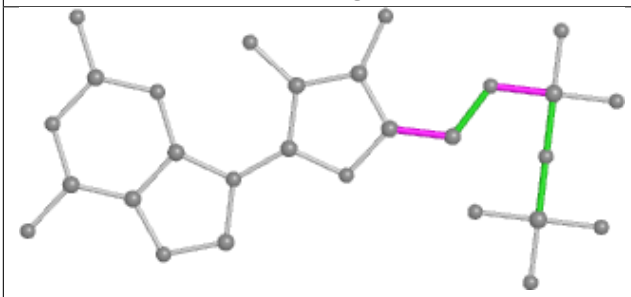

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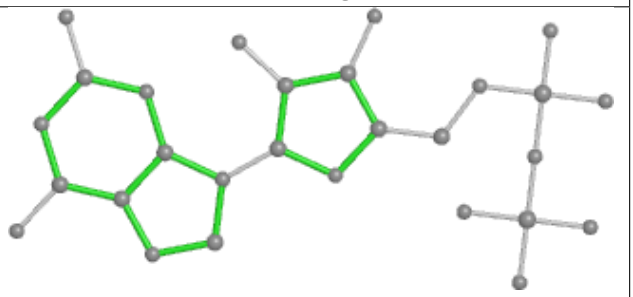
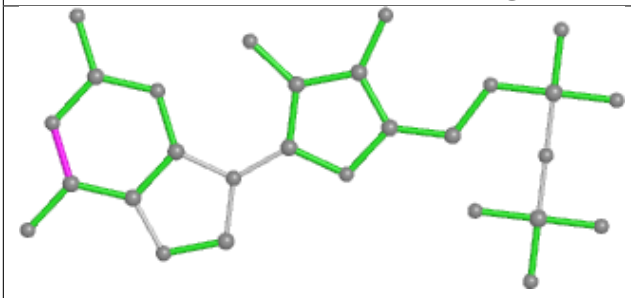


Rings

Ligand GDP WC 501



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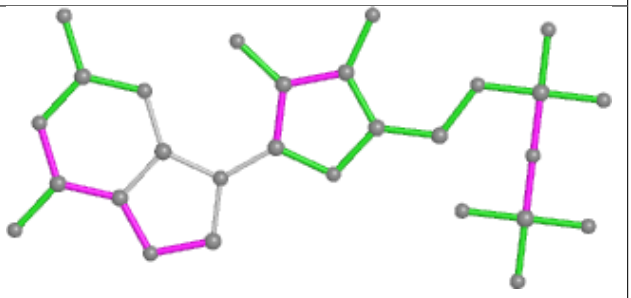

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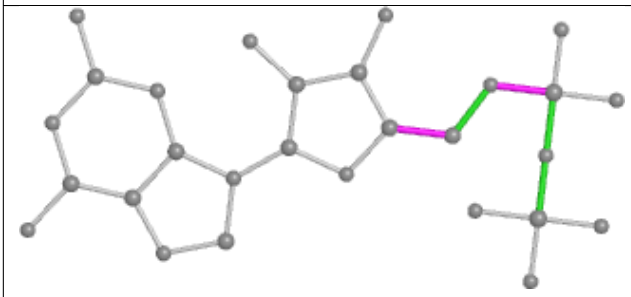

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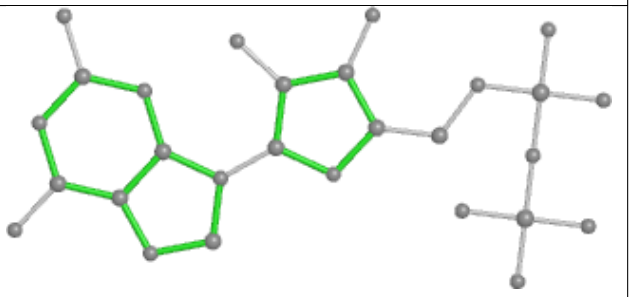
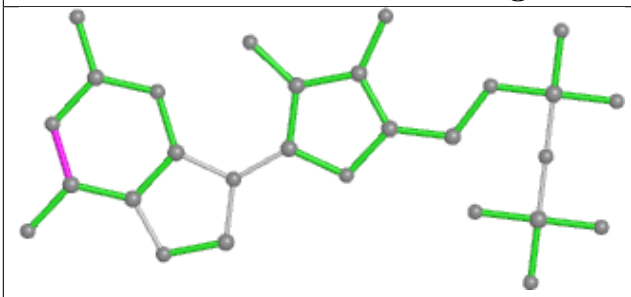


Rings

Ligand GDP ZG 501



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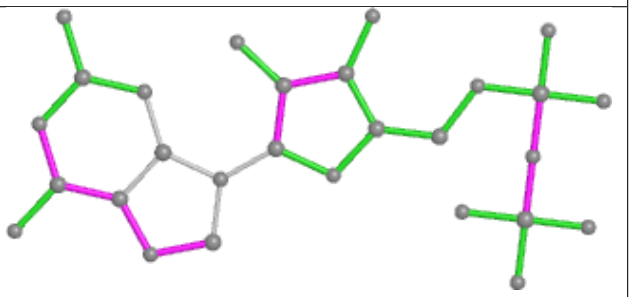

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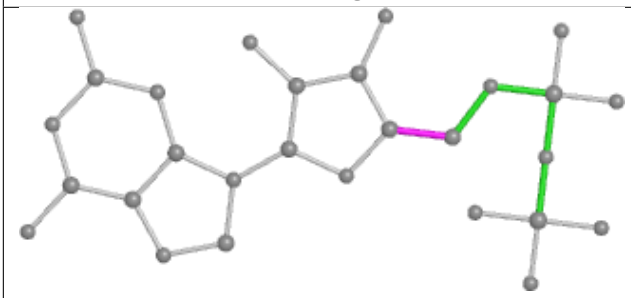

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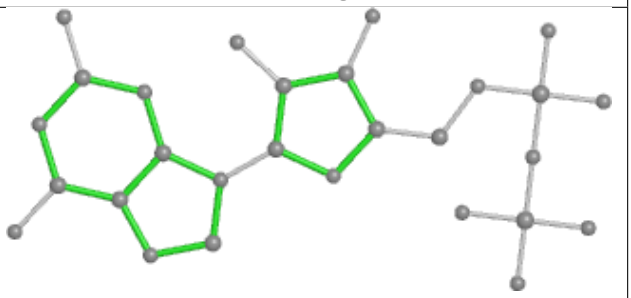

Rings

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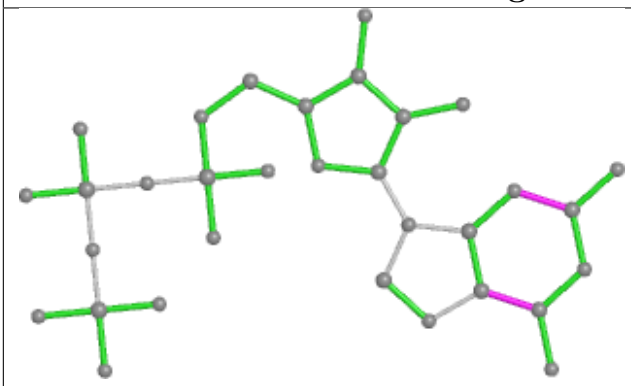

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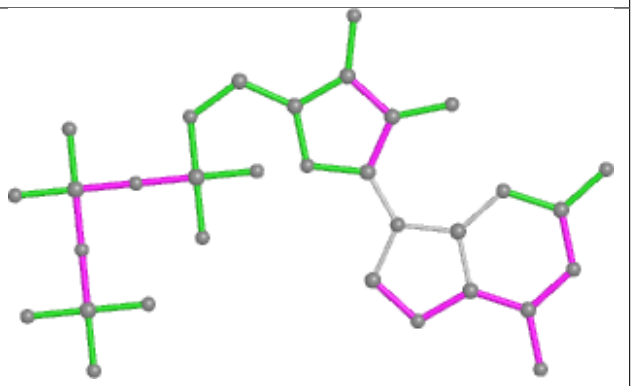

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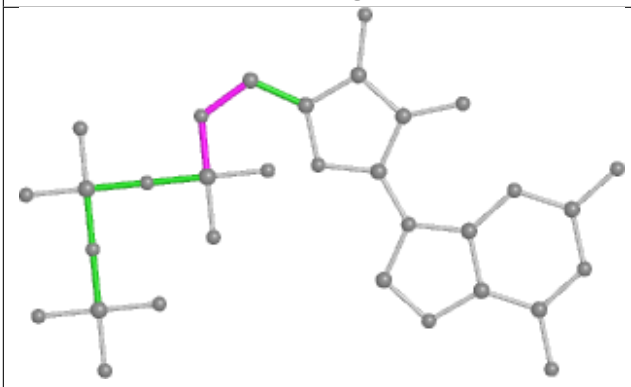

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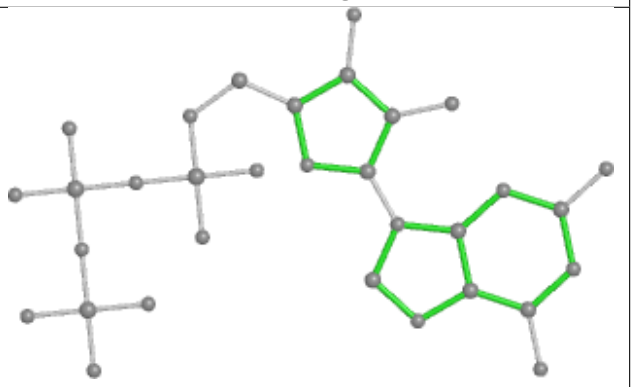
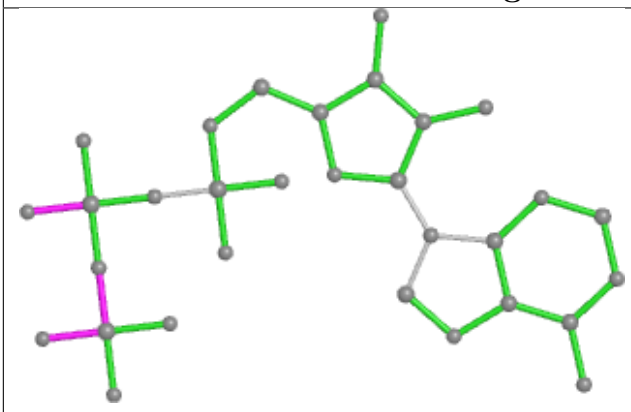


Rings

Ligand ANP C1 2001



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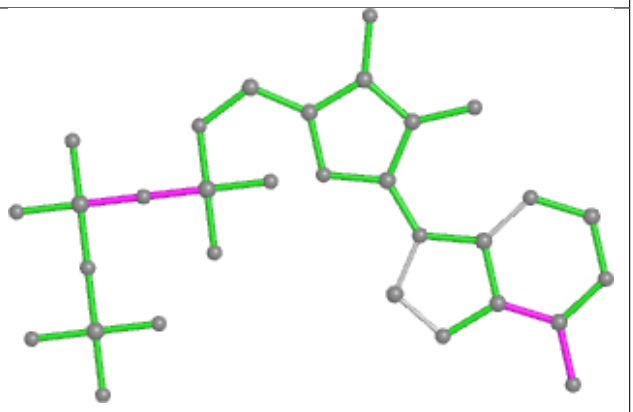
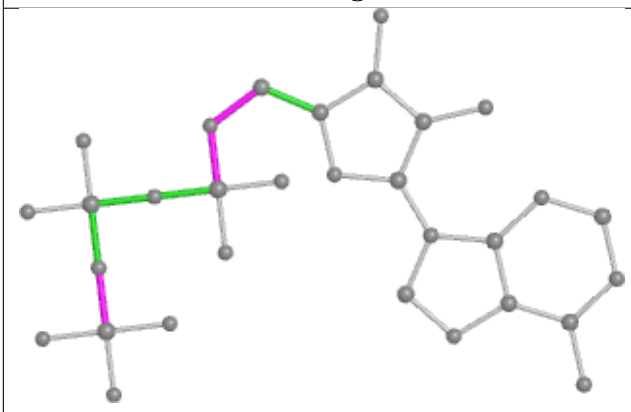


Bond angles



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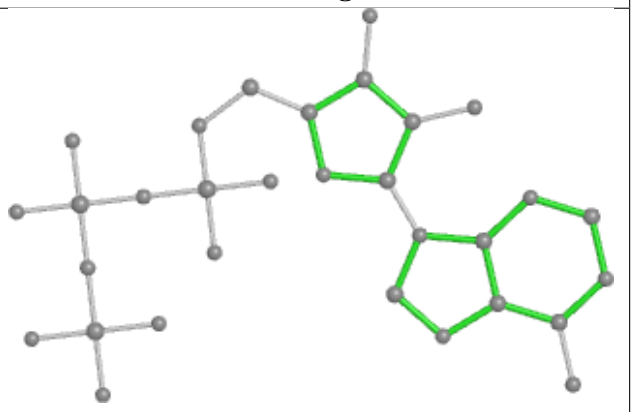
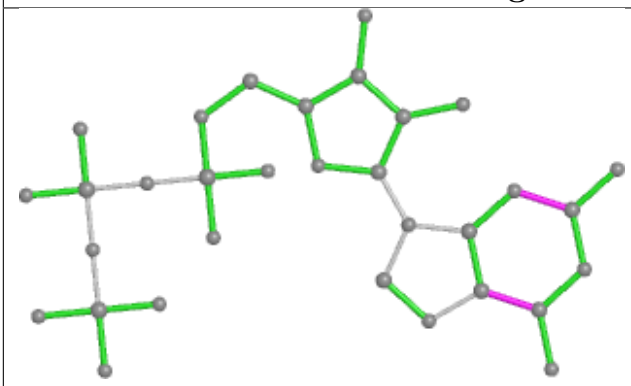


Rings

Ligand GTP RH 501



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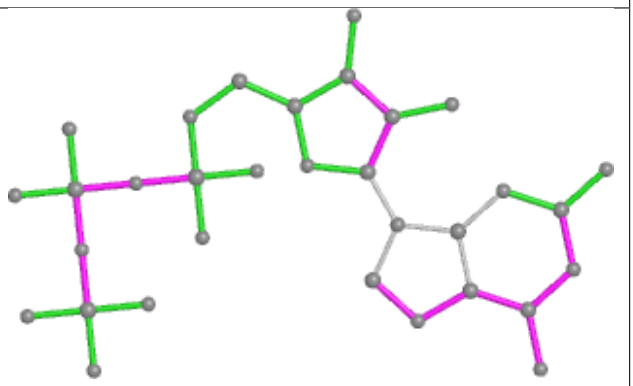
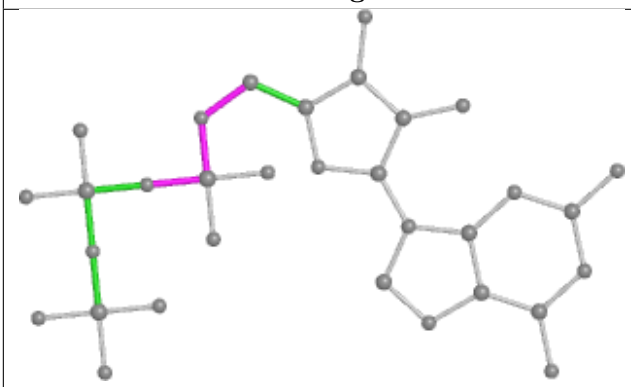


Bond angles



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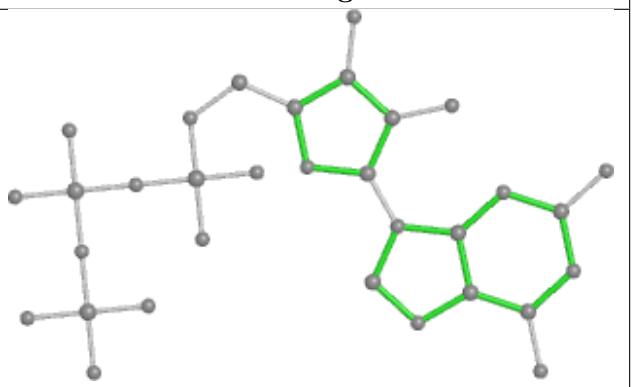
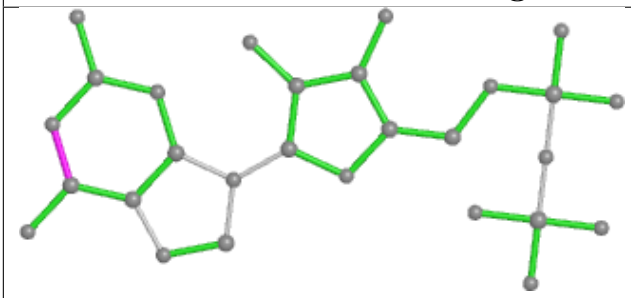


Rings

Ligand GDP NE 501



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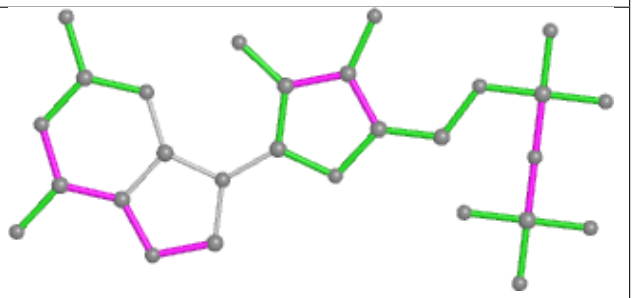
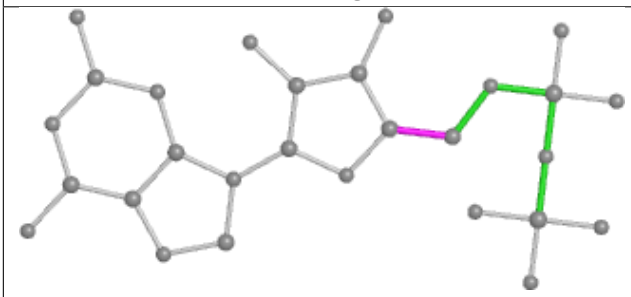
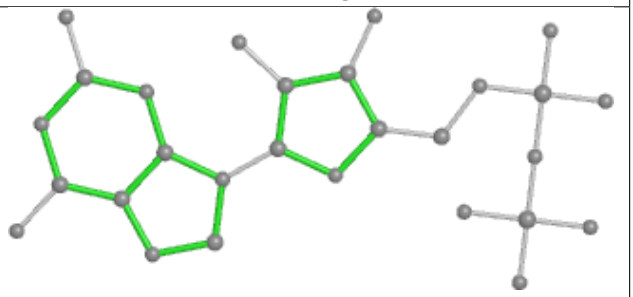


Bond angles

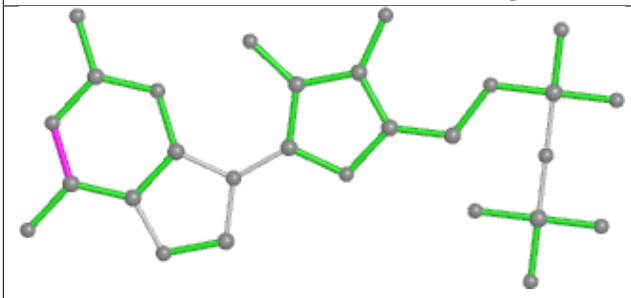


Torsions



Rings

Ligand GDP WE 501



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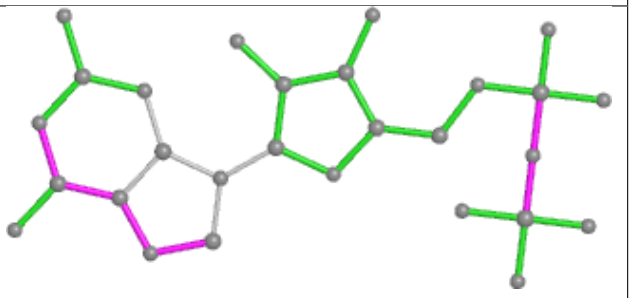
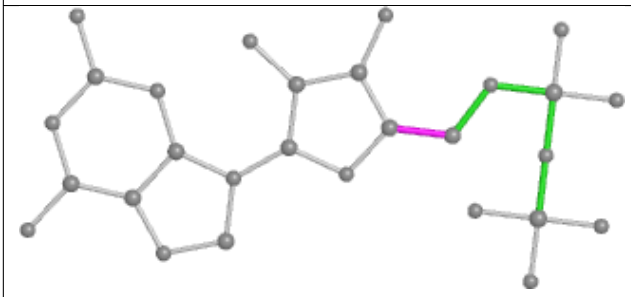


Bond angles



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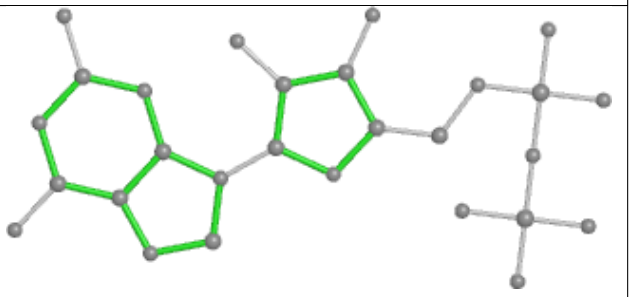
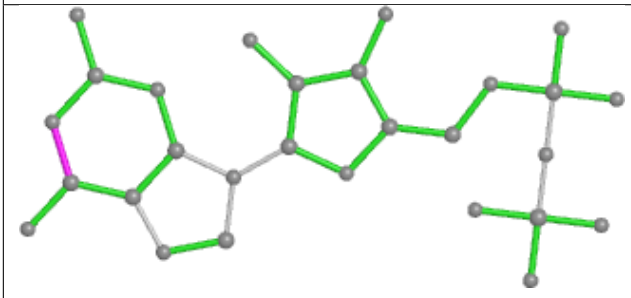


Rings

Ligand GDP XE 501



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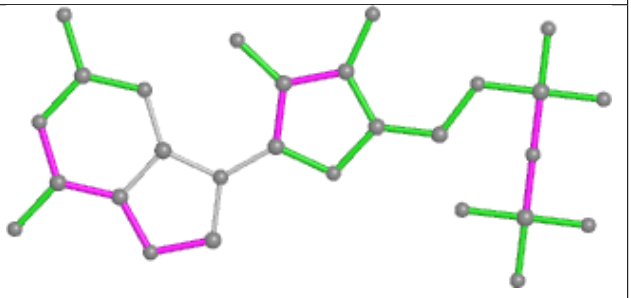

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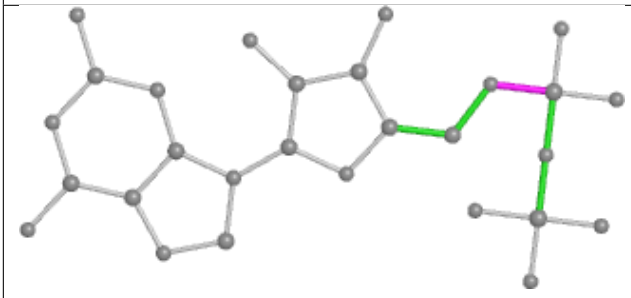

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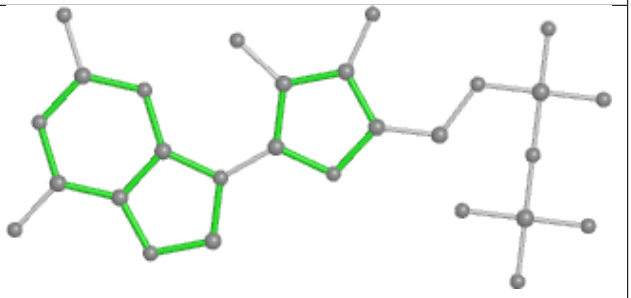
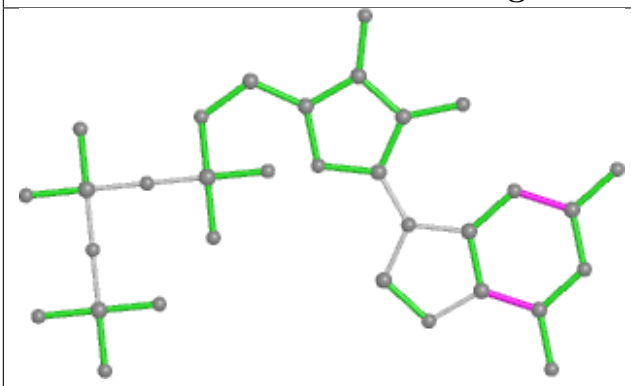


Rings

Ligand GTP UH 501



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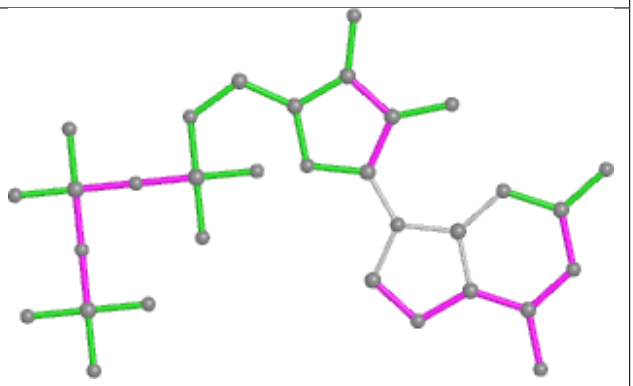

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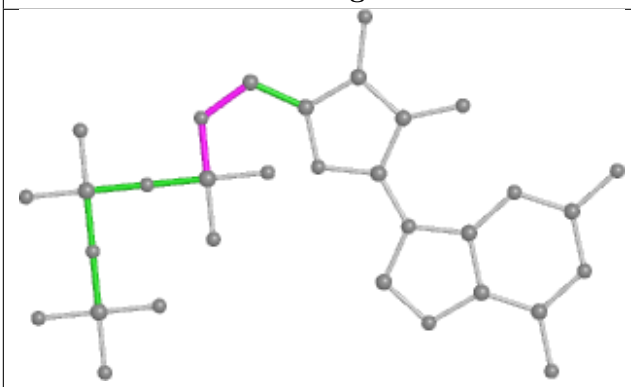

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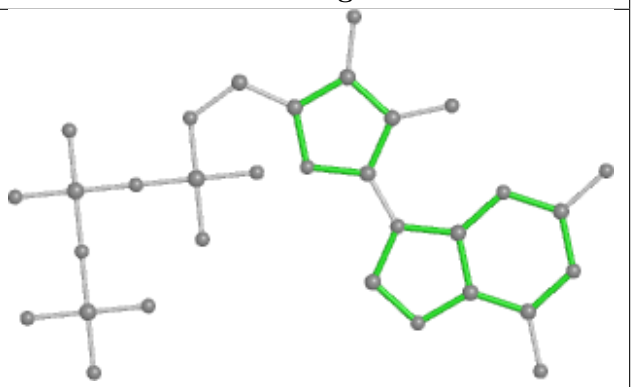
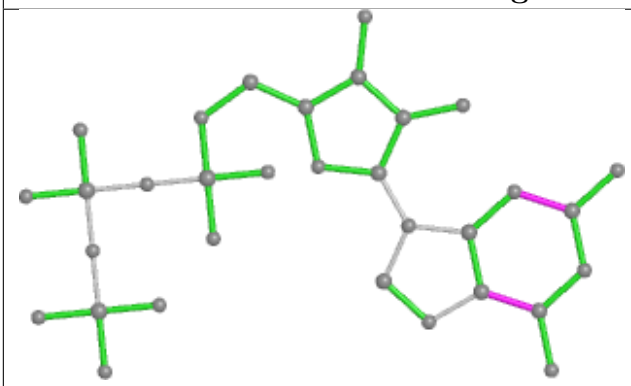


Rings

Ligand GTP QF 501



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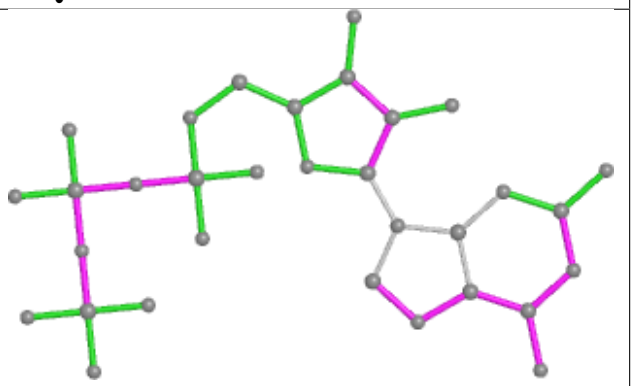

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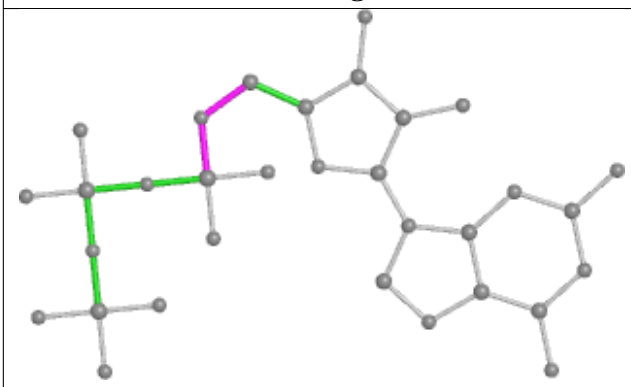

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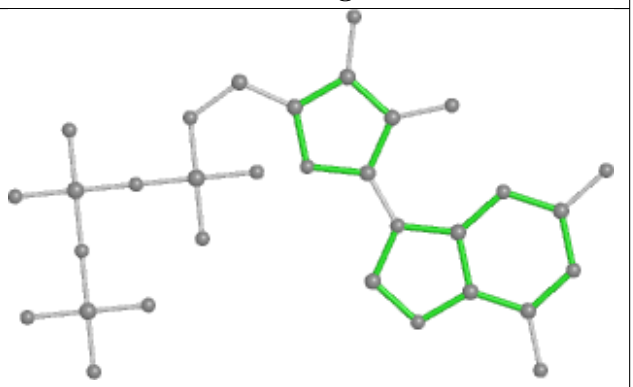
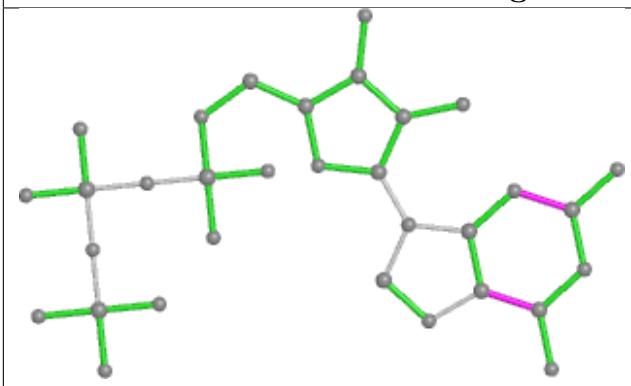


Rings

Ligand GTP UP 501



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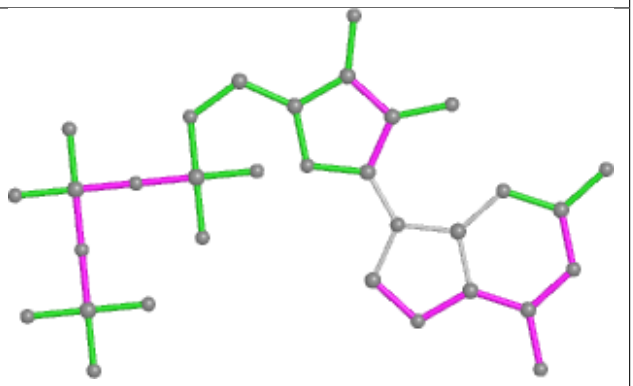

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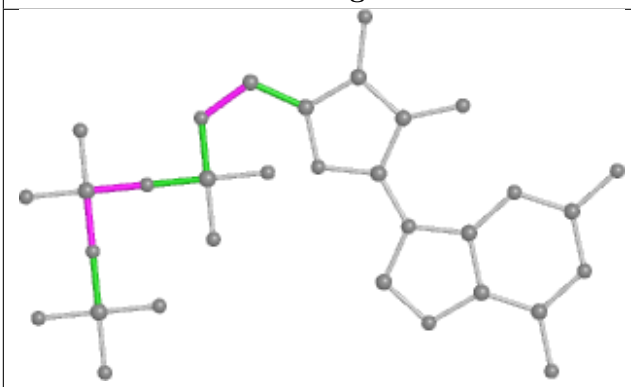

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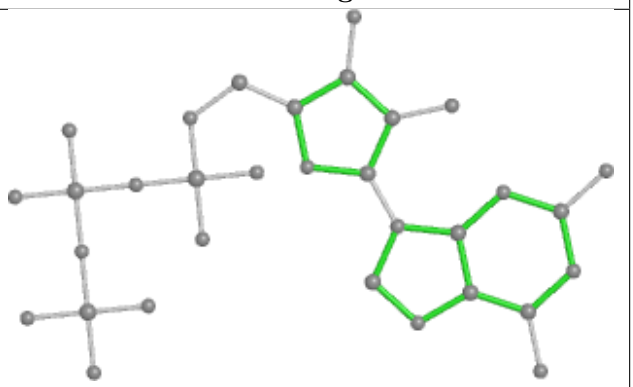
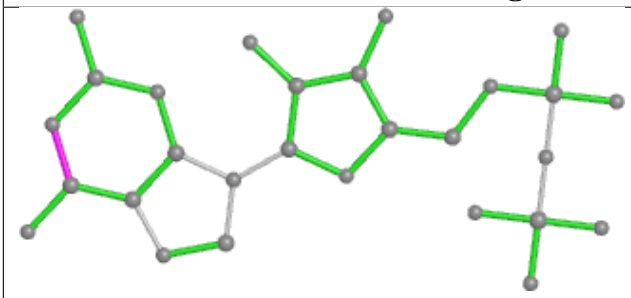


Rings

Ligand GDP UK 501



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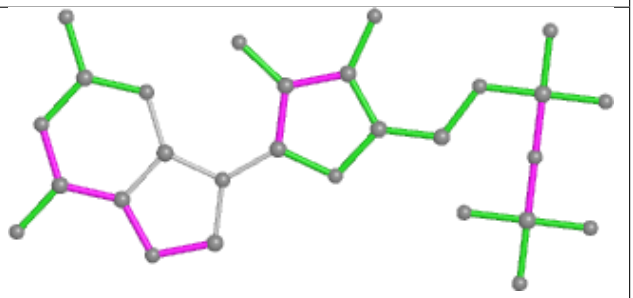

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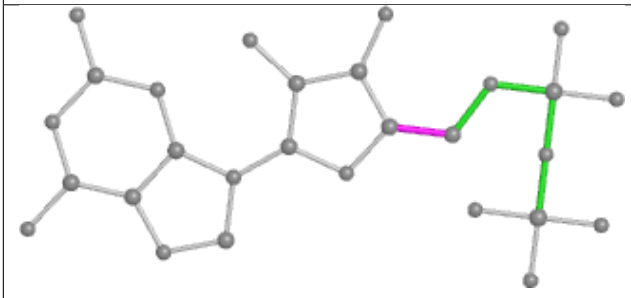

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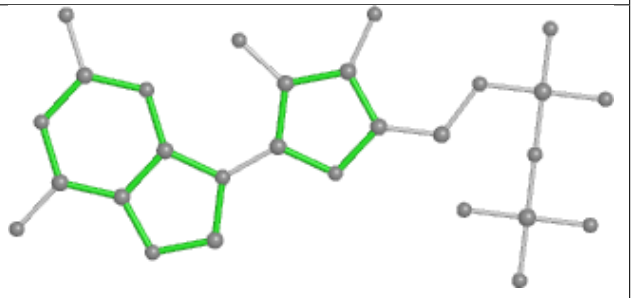

Rings

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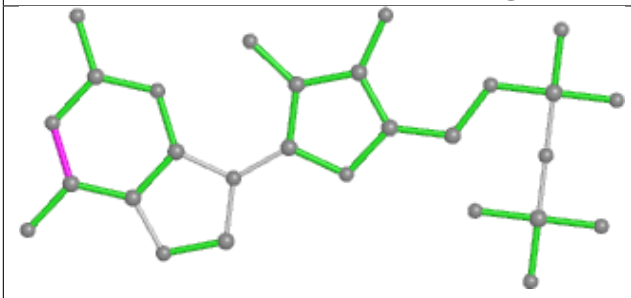

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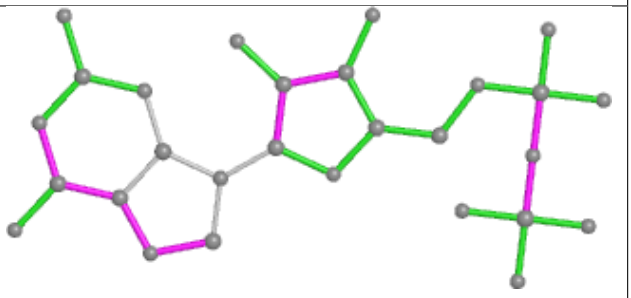

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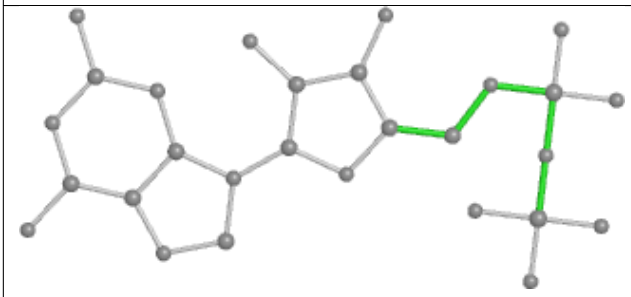

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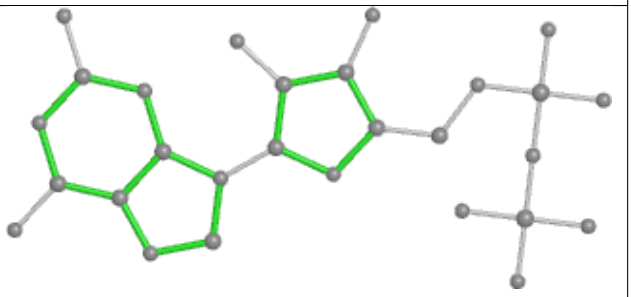
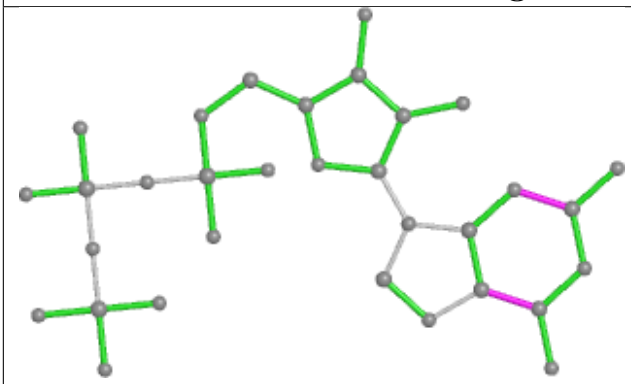


Rings

Ligand GTP OD 501



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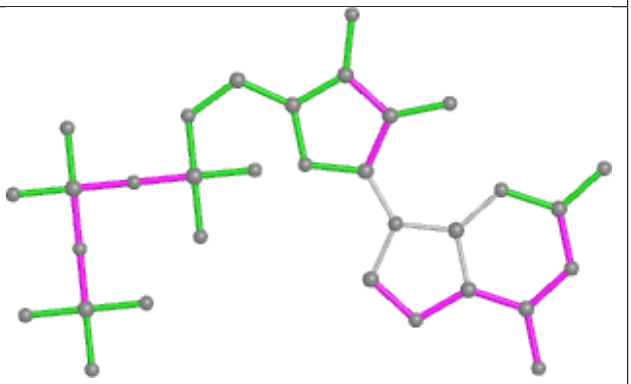

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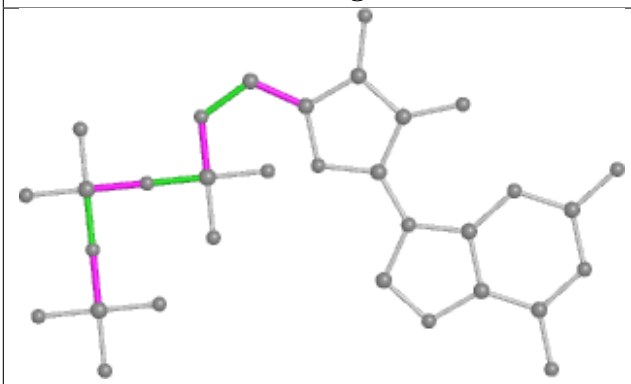

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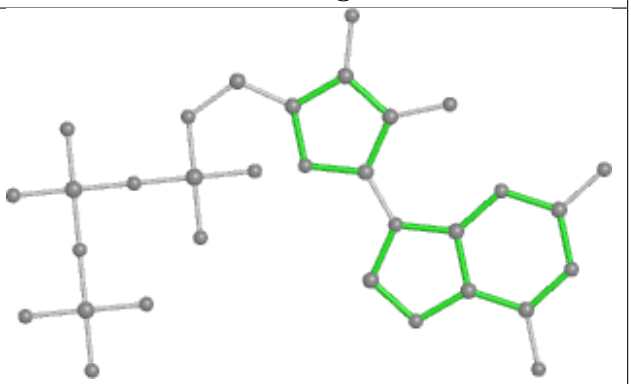
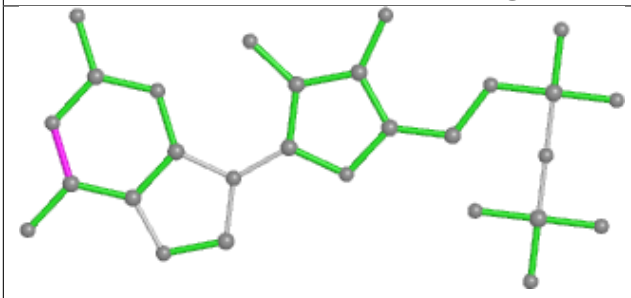
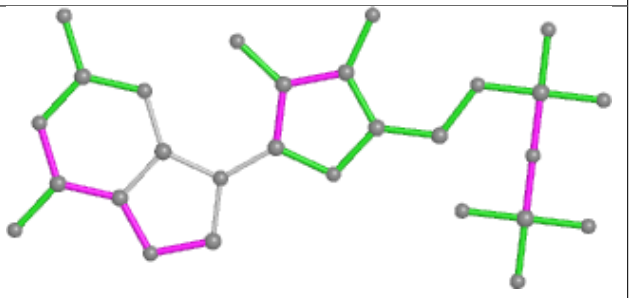
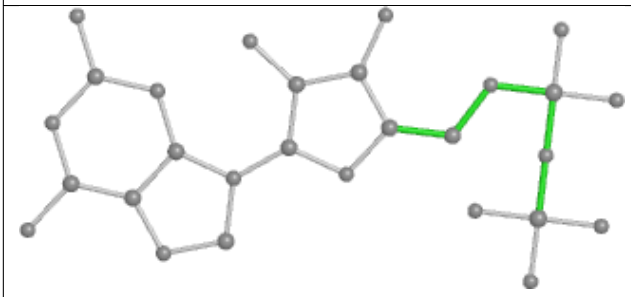
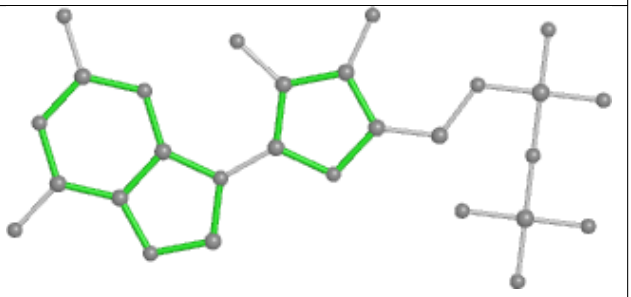


Rings

Ligand GDP UM 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

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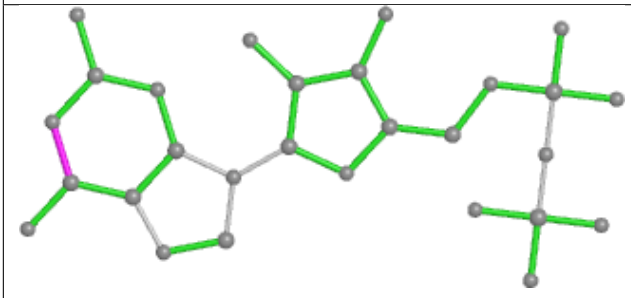
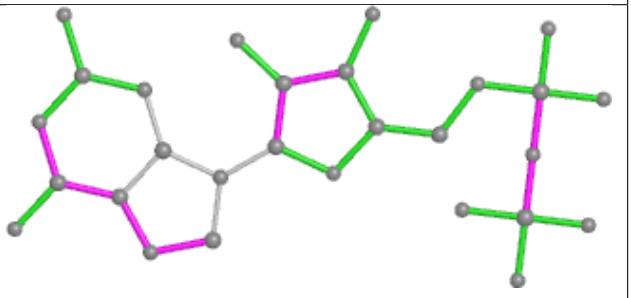
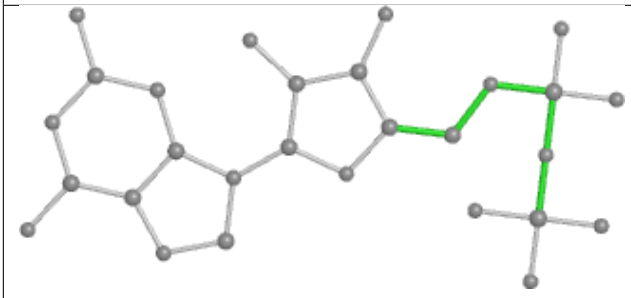
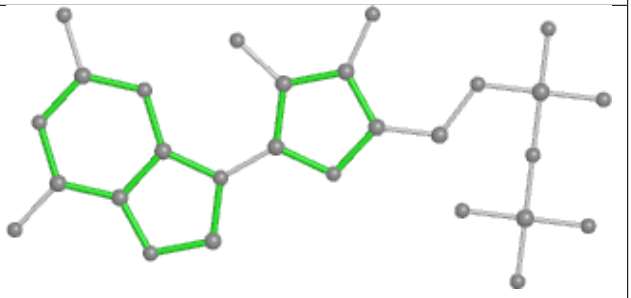
 Bond lengths	 Bond angles
 Torsions	 Rings

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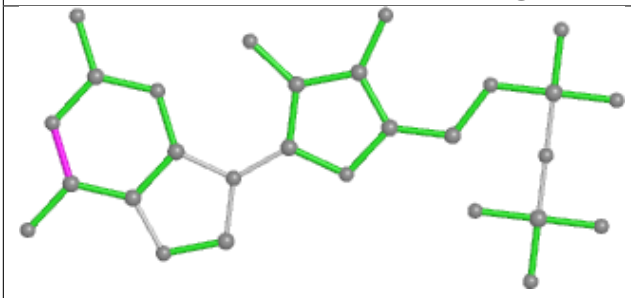
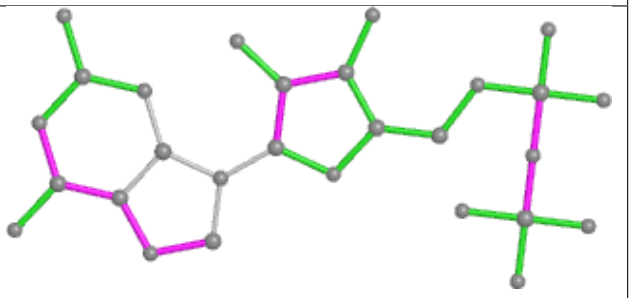
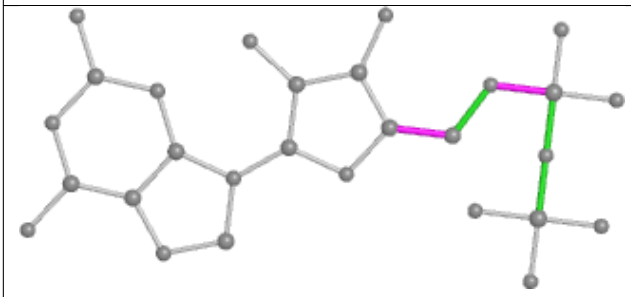
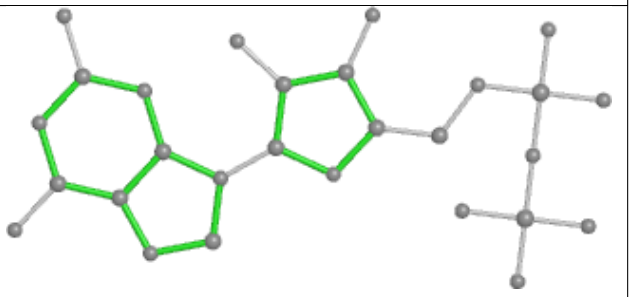
 Bond lengths	 Bond angles
 Torsions	 Rings

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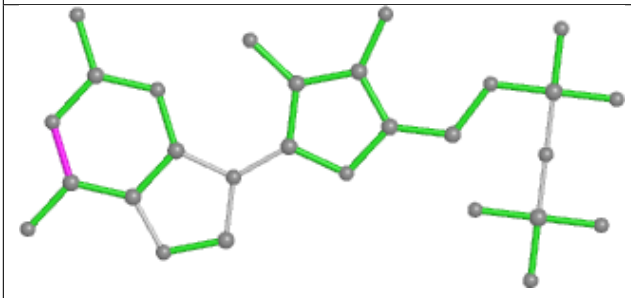
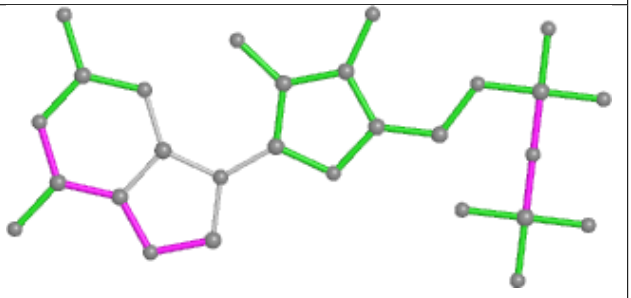
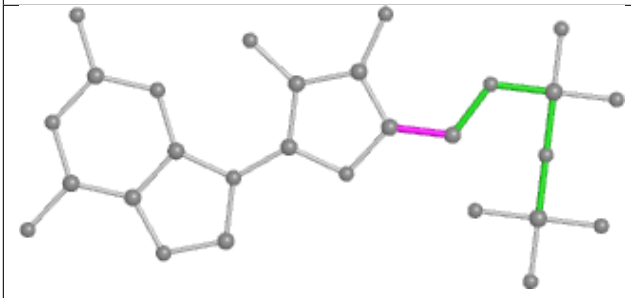
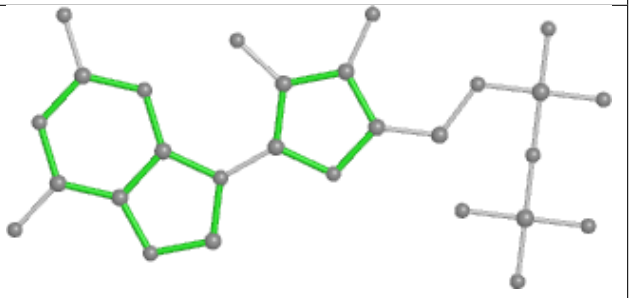
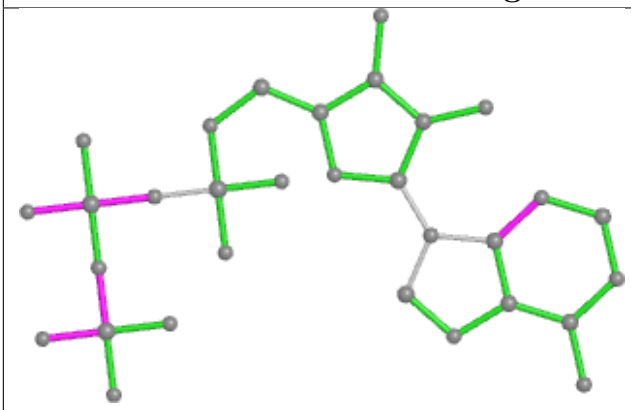
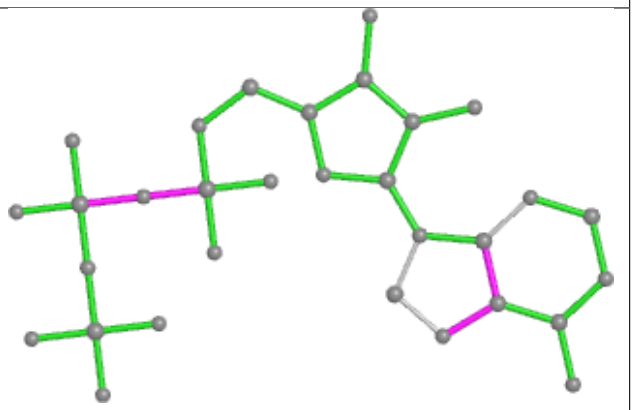
 Bond lengths	 Bond angles
 Torsions	 Rings

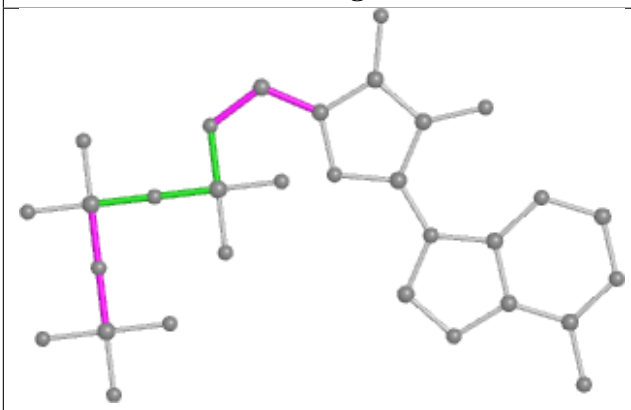
Ligand ANP C3 2001



Bond lengths



Bond angles



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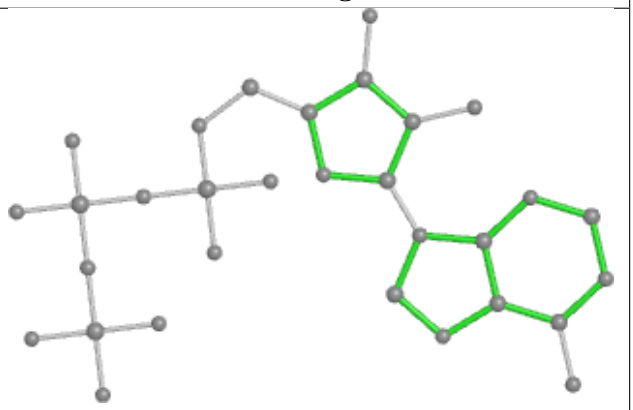
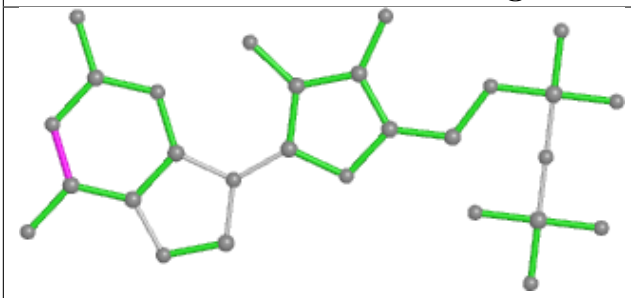


Rings

Ligand GDP YK 501



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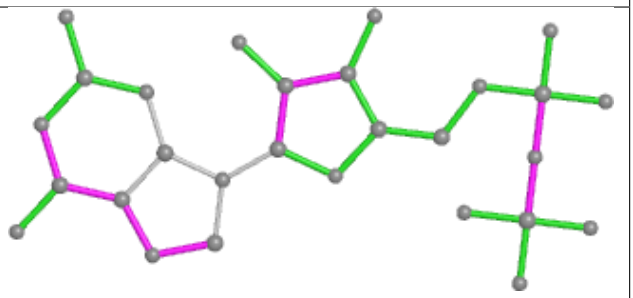
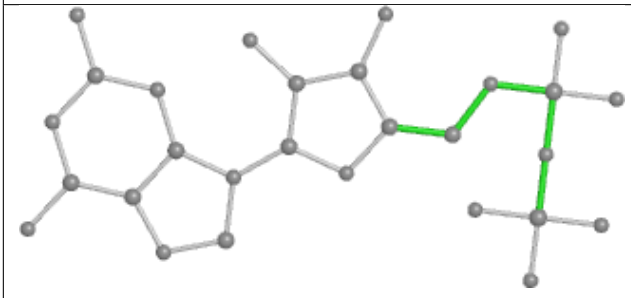
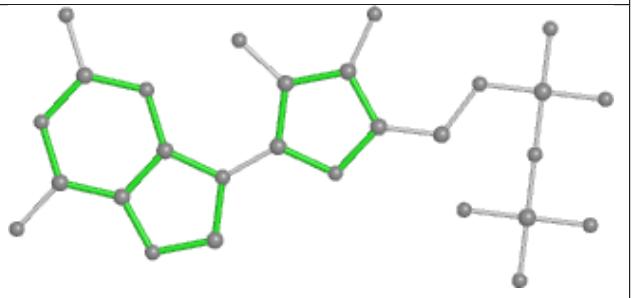


Bond angles



Torsions



Rings

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

The following chains have linkage breaks:

Mol	Chain	Number of breaks
36	W6	1
36	W4	1
36	W5	1
36	W3	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	W6	43:UNK	C	53:UNK	N	8.65
1	W4	43:UNK	C	53:UNK	N	8.49
1	W5	43:UNK	C	53:UNK	N	8.22
1	W3	43:UNK	C	53:UNK	N	7.05

6 Map visualisation

This section contains visualisations of the EMDB entry EMD-25381. These allow visual inspection of the internal detail of the map and identification of artifacts.

No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

This section was not generated.

6.2 Central slices

This section was not generated.

6.3 Largest variance slices

This section was not generated.

6.4 Orthogonal surface views

This section was not generated.

6.5 Mask visualisation

This section was not generated. No masks/segmentation were deposited.

7 Map analysis

This section contains the results of statistical analysis of the map.

7.1 Map-value distribution

This section was not generated.

7.2 Volume estimate versus contour level

This section was not generated.

7.3 Rotationally averaged power spectrum

This section was not generated. The rotationally averaged power spectrum had issues being displayed.

8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit

This section was not generated.