Full wwPDB EM Validation Report

Dec 10, 2022 – 10:54 pm GMT

PDB ID	:	6R6H
EMDB ID	:	EMD-4736
Title	:	Structural basis of Cullin-2 RING E3 ligase regulation by the COP9 signalosome
Authors	:	Morris, E.P.; Faull, S.V.; Lau, A.M.C.; Politis, A.; Beuron, F.; Cronin, N.
Deposited on	:	2019-03-27
Resolution	:	8.40 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:

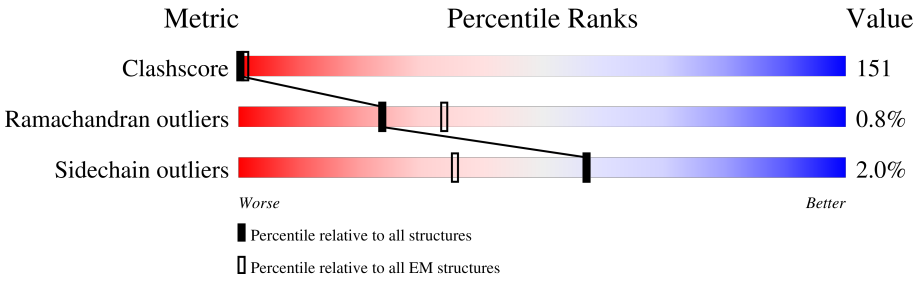
EMDB validation analysis	:	0.0.1.dev43
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ	:	1.9.9
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.31.3

1 Overall quality at a glance

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

The reported resolution of this entry is 8.40 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% The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion < 40%). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	491	7% 10% 75% 15%
2	B	443	6% 11% 80% 5%
3	C	403	12% 86%
4	D	406	11% 88%
5	E	334	71% 10% 78% 7%
6	F	308	58% 15% 76% 9%
7	H	209	13% 69% 18%
8	O	745	21% 15% 80% 5%

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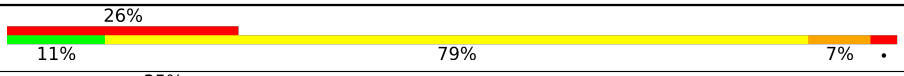
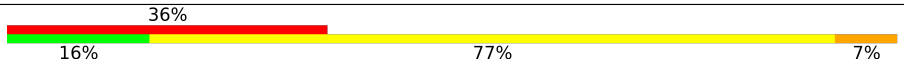
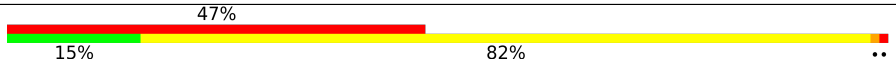
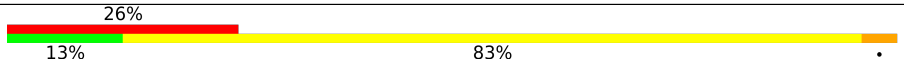
Mol	Chain	Length	Quality of chain
9	P	105	
10	Q	99	
11	R	86	
12	V	150	
13	G	206	

2 Entry composition (i)

There are 14 unique types of molecules in this entry. The entry contains 32026 atoms, of which 1420 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 COP9 signalosome complex subunit 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	419	3348	2113	588	625	22	0	0

- Molecule 2 is a protein called COP9 signalosome complex subunit 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	B	428	3512	2223	593	679	17	0	0

- Molecule 3 is a protein called COP9 signalosome complex subunit 3.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	C	400	3183	2028	533	596	26	0	0

There are 20 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	384	ILE	-	expression tag	UNP Q9UNS2
C	385	GLU	-	expression tag	UNP Q9UNS2
C	386	LEU	-	expression tag	UNP Q9UNS2
C	387	ASP	-	expression tag	UNP Q9UNS2
C	388	GLU	-	expression tag	UNP Q9UNS2
C	389	ARG	-	expression tag	UNP Q9UNS2
C	390	LEU	-	expression tag	UNP Q9UNS2
C	391	LYS	-	expression tag	UNP Q9UNS2
C	392	ALA	-	expression tag	UNP Q9UNS2
C	393	MET	-	expression tag	UNP Q9UNS2
C	394	ASP	-	expression tag	UNP Q9UNS2
C	395	GLN	-	expression tag	UNP Q9UNS2
C	396	GLU	-	expression tag	UNP Q9UNS2
C	397	ILE	-	expression tag	UNP Q9UNS2
C	398	THR	-	expression tag	UNP Q9UNS2

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Chain	Residue	Modelled	Actual	Comment	Reference
C	399	VAL	-	expression tag	UNP Q9UNS2
C	400	ASN	-	expression tag	UNP Q9UNS2
C	401	PRO	-	expression tag	UNP Q9UNS2
C	402	GLN	-	expression tag	UNP Q9UNS2
C	403	PHE	-	expression tag	UNP Q9UNS2

- Molecule 4 is a protein called COP9 signalosome complex subunit 4.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
4	D	405	3243	2041	565	621	16	0	0

- Molecule 5 is a protein called COP9 signalosome complex subunit 5.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
5	E	310	2452	1562	411	466	13	0	0

- Molecule 6 is a protein called COP9 signalosome complex subunit 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	F	281	2236	1429	371	421	15	0	0

- Molecule 7 is a protein called COP9 signalosome complex subunit 8.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
7	H	172	1379	883	239	253	4	0	0

- Molecule 8 is a protein called Cullin-2.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	S		
8	O	745	6508	3869	415	1032	1146	46	0	0

- Molecule 9 is a protein called Elongin-B.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	S		
9	P	105	903	520	82	136	160	5	0	0

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
P	105	ALA	-	expression tag	UNP Q15370

- Molecule 10 is a protein called ELOC_HUMAN.

Mol	Chain	Residues	Atoms						AltConf	Trace
10	Q	99	Total	C	H	N	O	S	0	0
			1577	505	782	121	165	4		

- Molecule 11 is a protein called RBX1_HUMAN.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	R	86	Total	C	N	O	S	0	0
			690	433	128	120	9		

- Molecule 12 is a protein called von Hippel-Lindau disease tumor suppressor.

Mol	Chain	Residues	Atoms						AltConf	Trace
12	V	150	Total	C	H	N	O	S	0	0
			1364	776	141	226	219	2		

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
V	208	ALA	-	expression tag	UNP P40337
V	209	ALA	-	expression tag	UNP P40337

- Molecule 13 is a protein called COP9 signalosome complex subunit 7b.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	G	206	Total	C	N	O	S	0	0
			1630	1032	276	316	6		

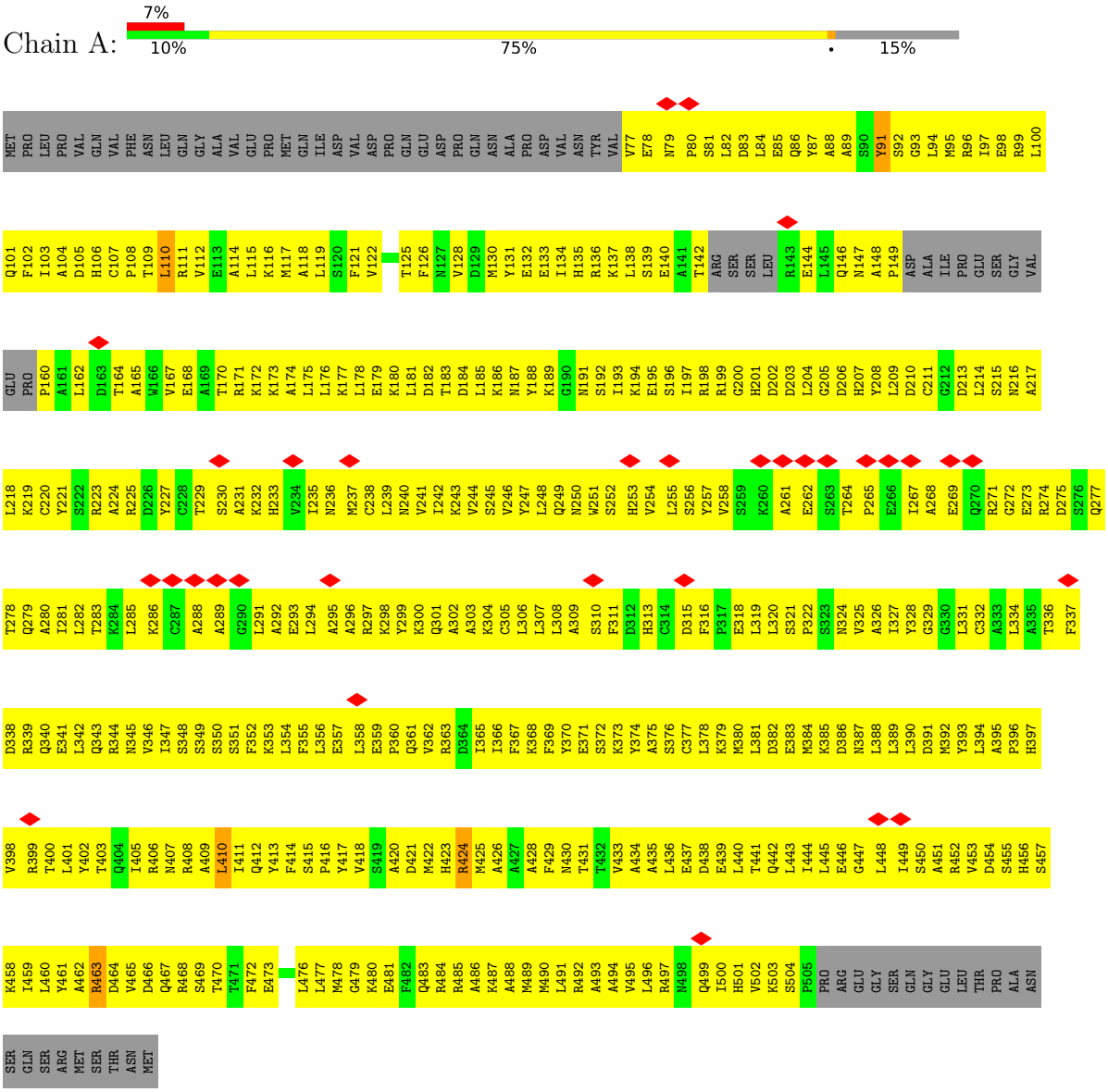
- Molecule 14 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		AltConf
14	E	1	Total	Zn	0
			1	1	

3 Residue-property plots (i)

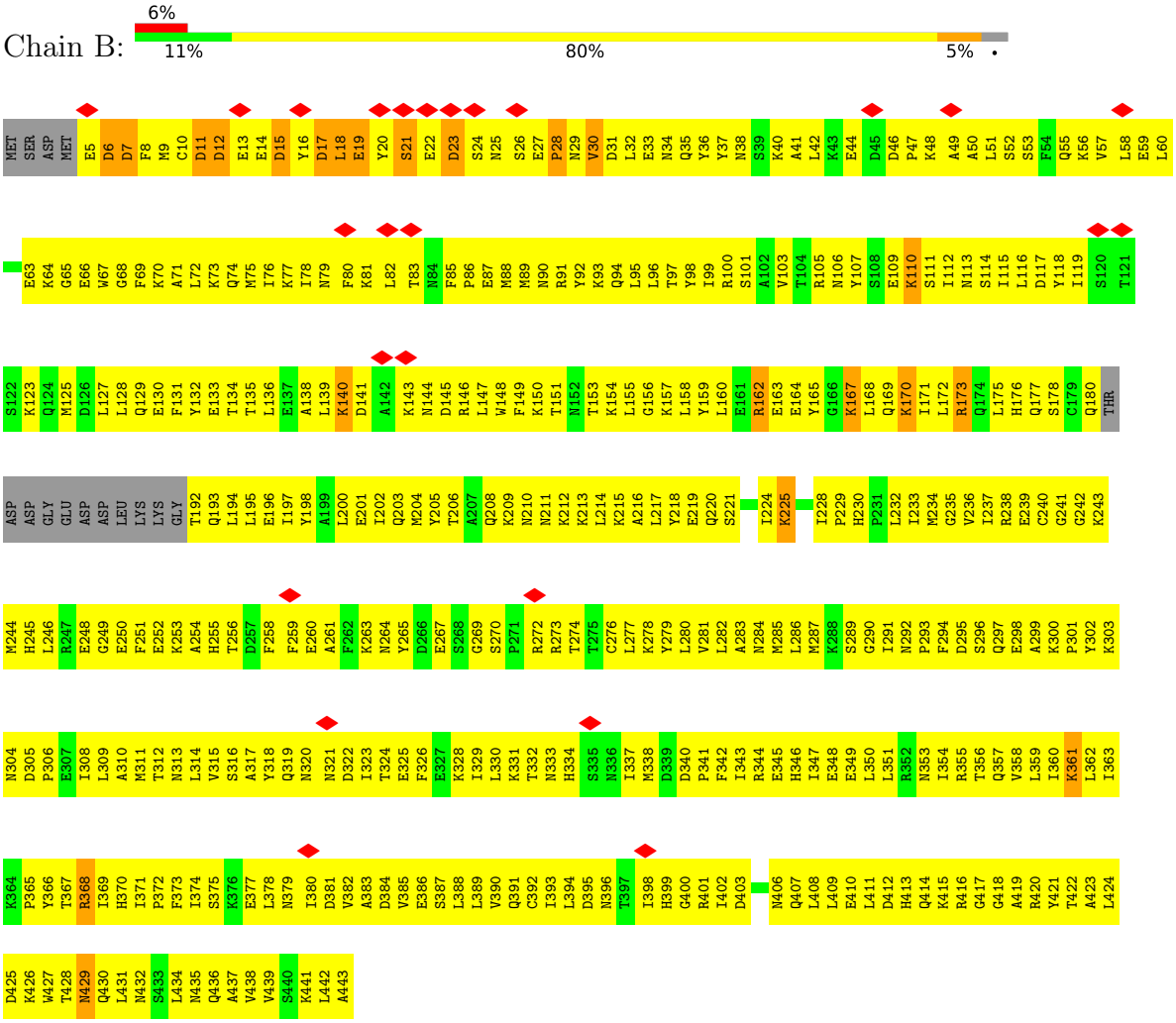
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. 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. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). 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: COP9 signalosome complex subunit 1



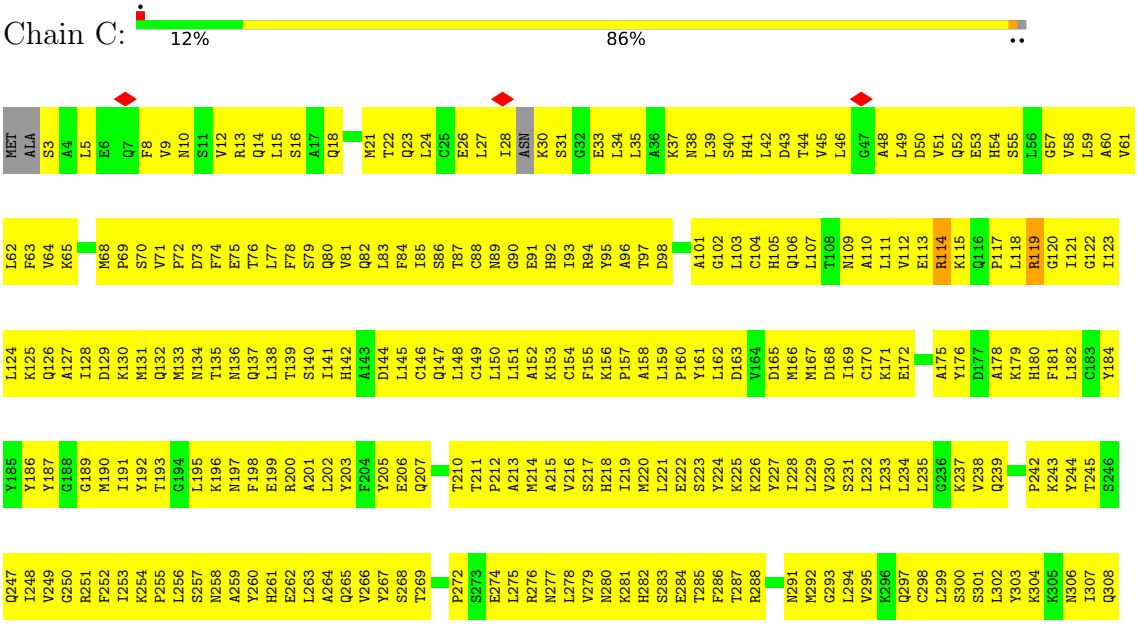
• Molecule 2: COP9 signalosome complex subunit 2

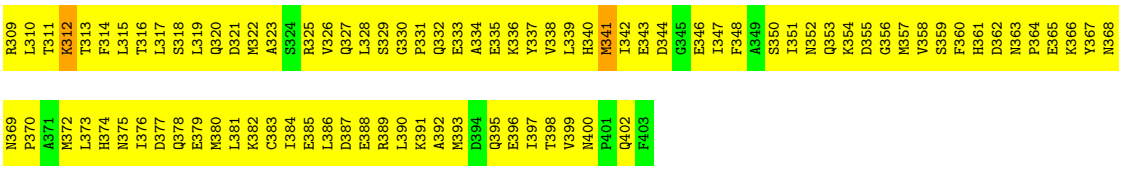
Chain B:



• Molecule 3: COP9 signalosome complex subunit 3

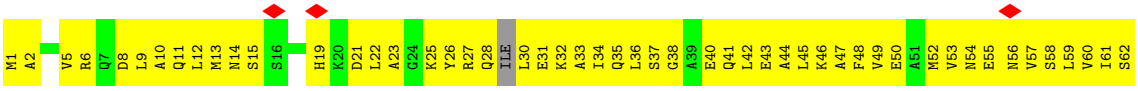
Chain C:

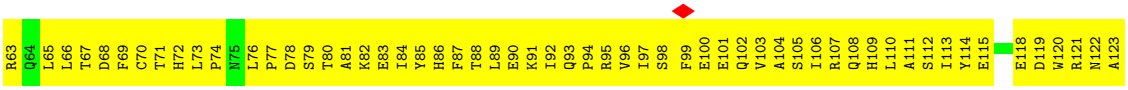


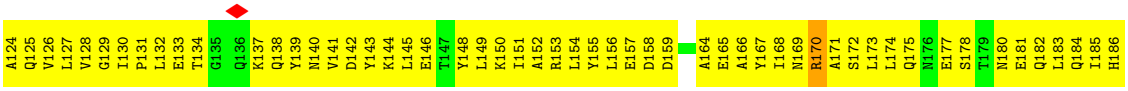


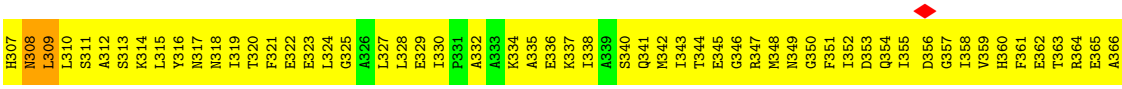
• Molecule 4: COP9 signalosome complex subunit 4

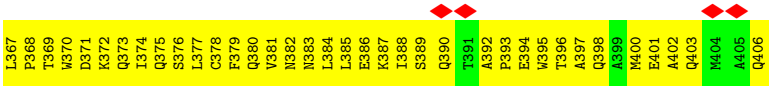
Chain D:





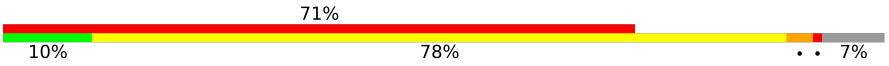


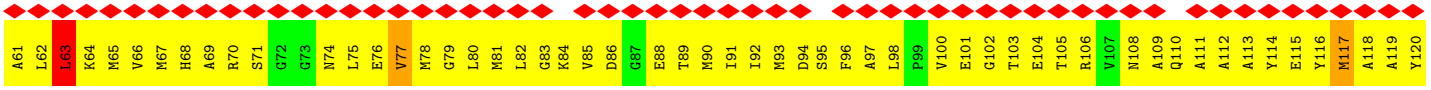


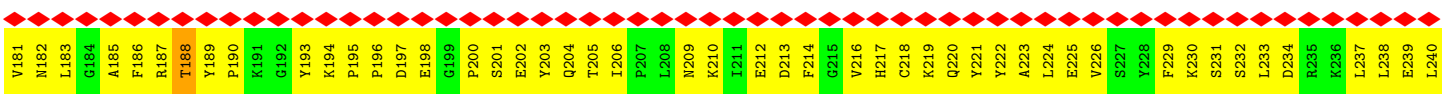


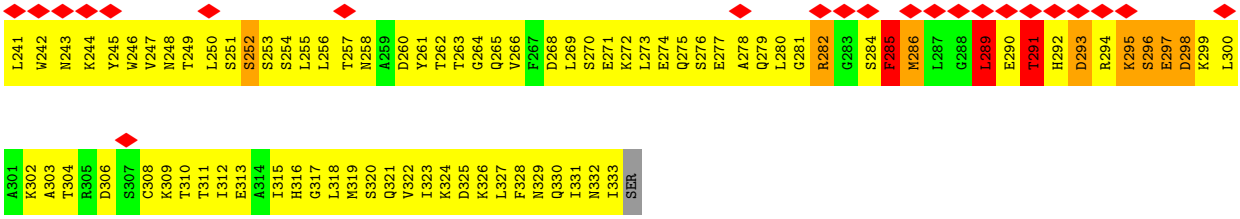
• Molecule 5: COP9 signalosome complex subunit 5

Chain E:



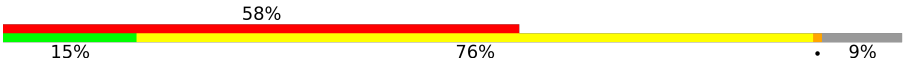


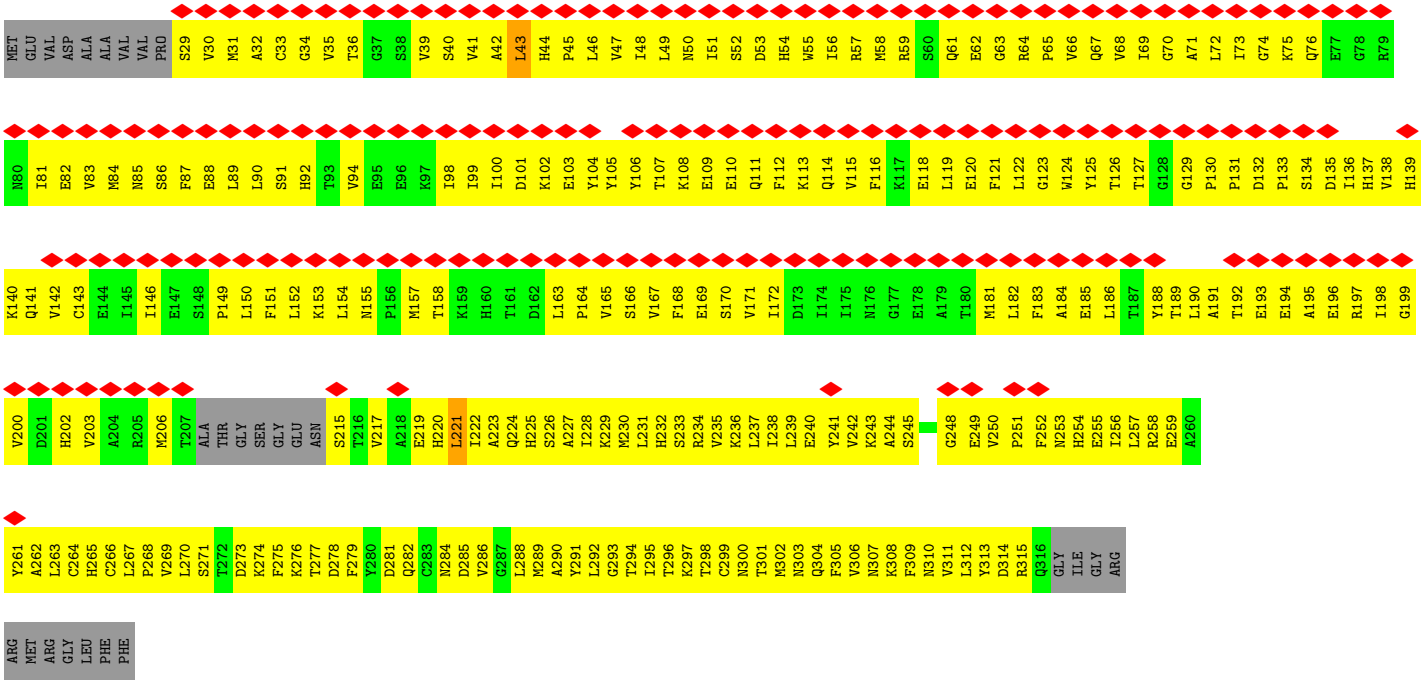




• Molecule 6: COP9 signalosome complex subunit 6

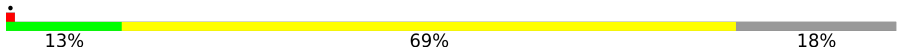
Chain F:

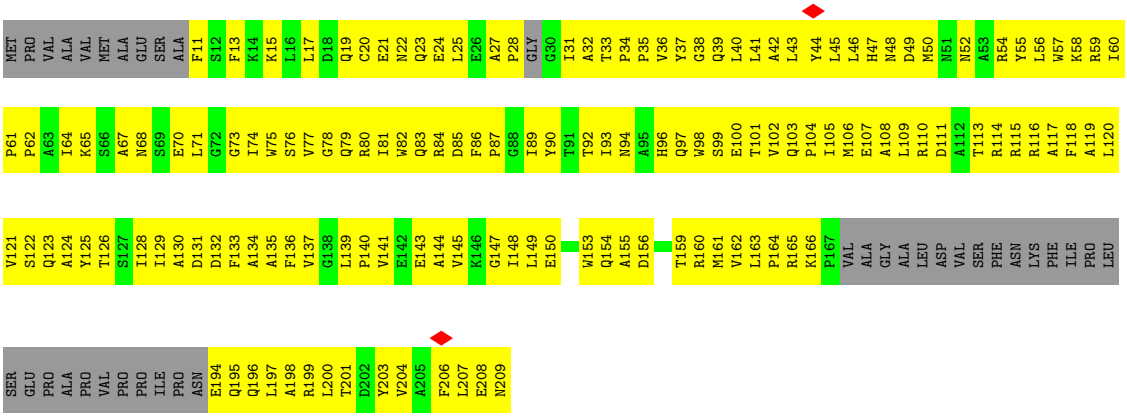




• Molecule 7: COP9 signalosome complex subunit 8

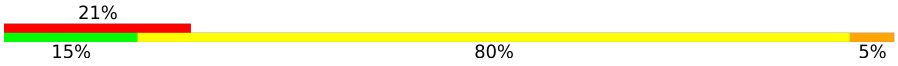
Chain H:

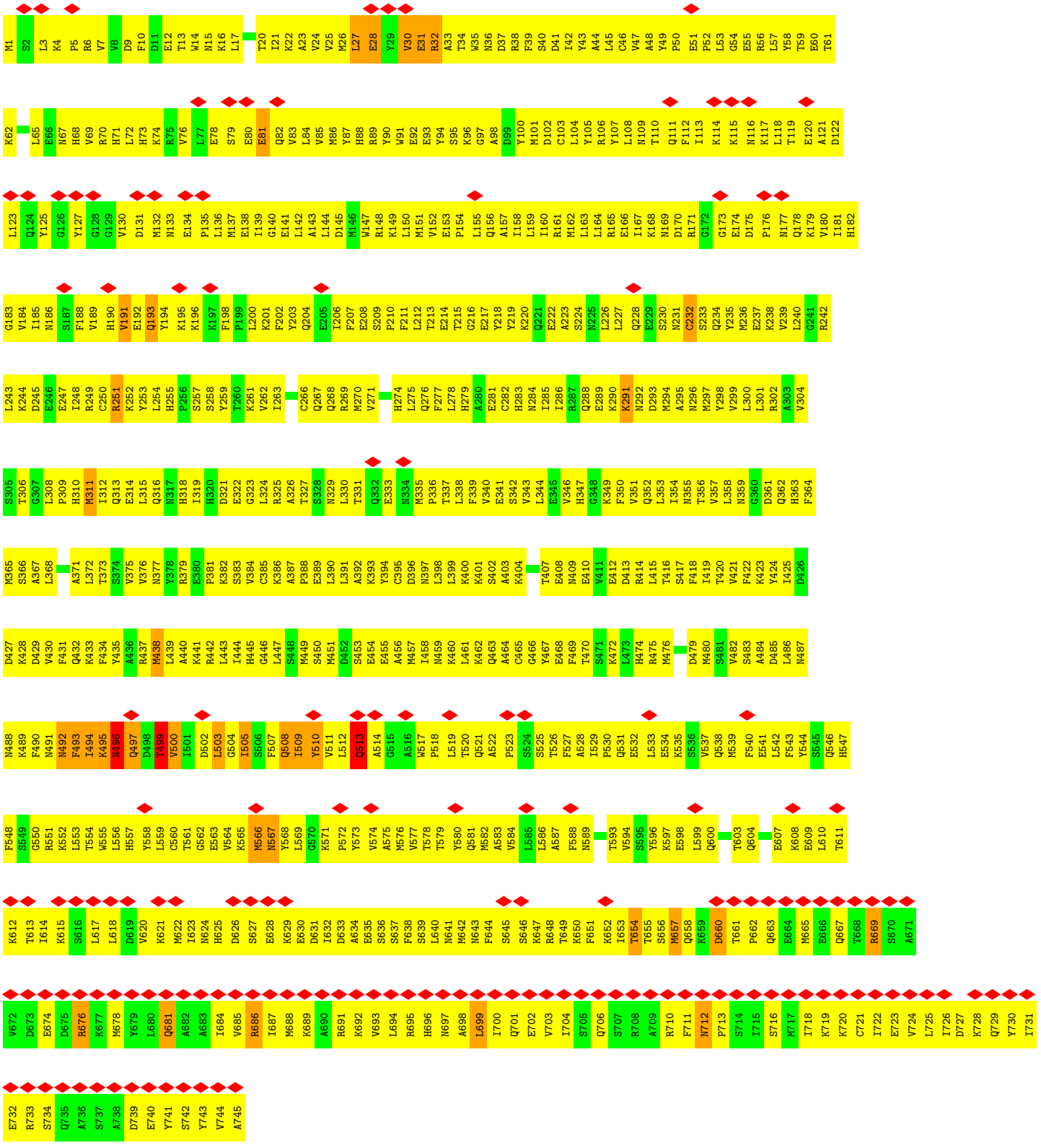




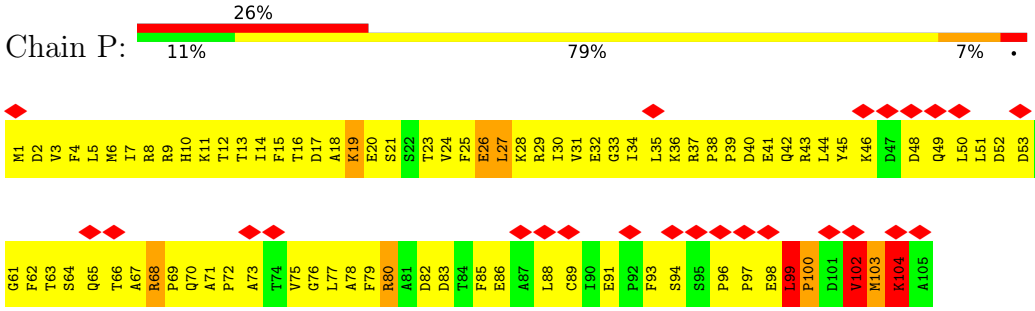
• Molecule 8: Cullin-2

Chain O:

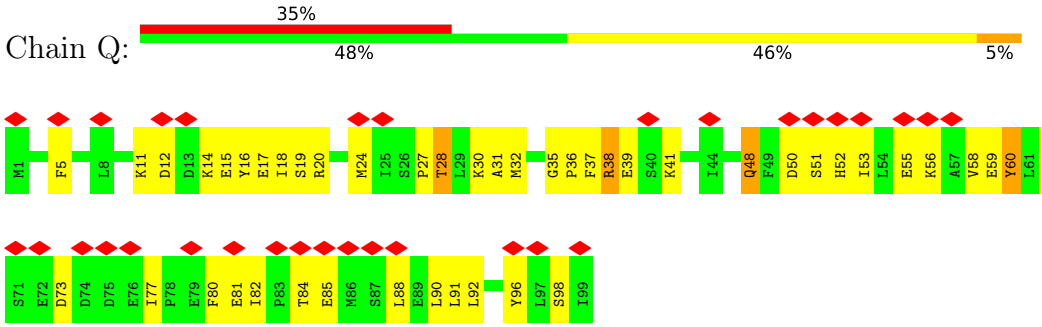




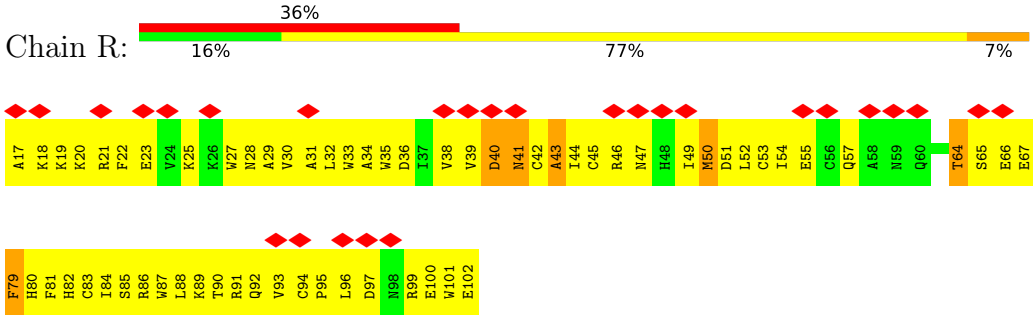
• Molecule 9: Elongin-B



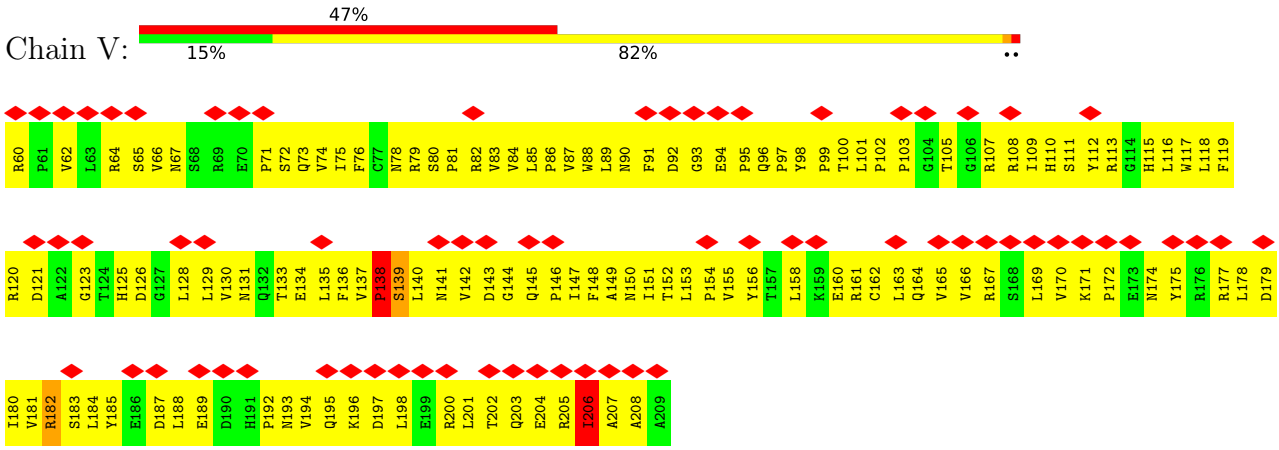
• Molecule 10: ELOC_HUMAN



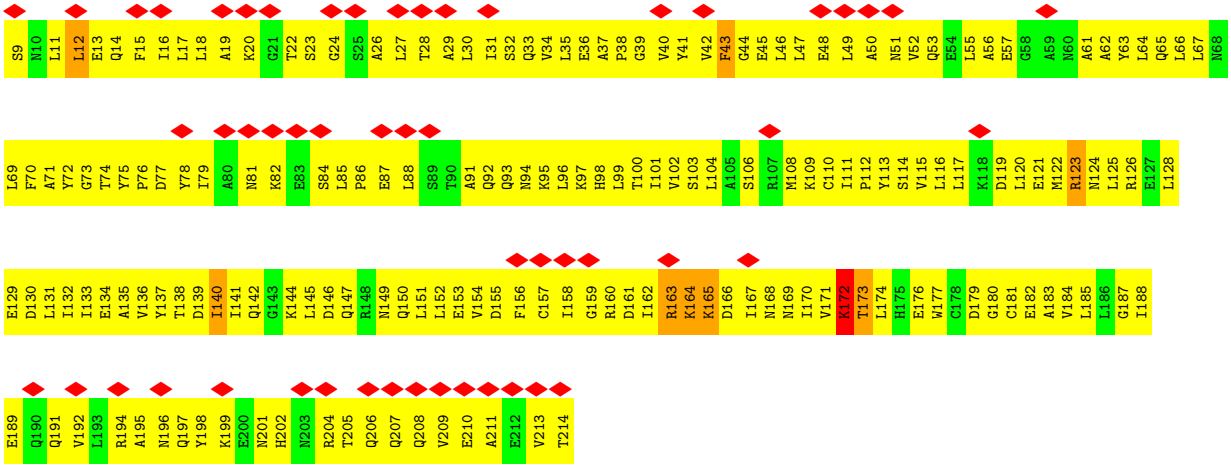
• Molecule 11: RBX1_HUMAN



• Molecule 12: von Hippel-Lindau disease tumor suppressor



• Molecule 13: COP9 signalosome complex subunit 7b


S9 M10 L11 L12 E13 Q14 F15 I16 L17 L18 A19 K20 G21 T22 S23 G24 S25 A26 L27 T28 A29 L30 I31 S32 Q33 V34 L35 E36 A37 P38 G39 V40 Y41 V42 F43 G44 E45 L46 L47 E48 L49 A50 N51 V52 Q53 E54 L55 A56 E57 G58 A59 N60 A61 A62 Y63 L64 Q65 L66 L67 N68
L69 F70 A71 Y72 G73 T74 Y75 P76 D77 Y78 I79 A80 N81 K82 E83 S84 L85 P86 E87 L88 S89 T90 A91 Q92 Q93 N94 K95 L96 K97 H98 L99 T100 I101 V102 S103 L104 A105 S106 R107 M108 K109 C110 I111 P112 Y113 S114 V115 L116 L117 K118 D119 L120 E121 M122 R123 N124 L125 R126 E127 L128
E129 D130 L131 I132 I133 E134 A135 V136 Y137 T138 D139 I140 I141 Q142 G143 K144 L145 D146 Q147 R148 N149 Q150 L151 L152 E153 V154 D155 F156 C157 I158 G159 R160 D161 I162 R163 K164 K165 D166 I167 N168 N169 I170 V171 K172 T173 L174 H175 E176 W177 C178 D179 G180 C181 E182 A183 V184 L185 L186 G187 I188
E189 Q190 Q191 V192 L193 R194 A195 N196 Q197 Y198 K199 E200 N201 H202 N203 R204 T205 Q206 Q207 Q208 V209 E210 A211 E212 V213 T214

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	24040	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 ($e^-/Å^2$)	45	Depositor
Minimum defocus (nm)	1800	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	47170	Depositor
Image detector	GATAN K2 QUANTUM (4k x 4k)	Depositor
Maximum map value	20.682	Depositor
Minimum map value	-5.749	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	6.0	Depositor
Map size (Å)	317.99997, 317.99997, 317.99997	wwPDB
Map dimensions	300, 300, 300	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.06, 1.06, 1.06	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: ZN

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	A	0.34	0/3404	0.53	1/4588 (0.0%)
2	B	0.32	0/3572	0.57	8/4807 (0.2%)
3	C	0.33	0/3241	0.52	0/4376
4	D	0.33	0/3291	0.50	1/4437 (0.0%)
5	E	0.46	3/2503 (0.1%)	1.21	10/3378 (0.3%)
6	F	0.34	0/2279	0.61	1/3083 (0.0%)
7	H	0.31	0/1411	0.48	0/1916
8	O	0.75	6/6206 (0.1%)	0.96	11/8350 (0.1%)
9	P	1.00	3/836 (0.4%)	1.84	8/1129 (0.7%)
10	Q	0.55	0/808	0.87	1/1087 (0.1%)
11	R	0.40	0/706	0.66	0/955
12	V	0.39	1/1252 (0.1%)	1.33	5/1705 (0.3%)
13	G	0.95	1/1650 (0.1%)	1.31	4/2234 (0.2%)
All	All	0.53	14/31159 (0.0%)	0.86	50/42045 (0.1%)

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
1	A	0	2
2	B	0	1
3	C	0	1
4	D	0	1
5	E	0	4
6	F	0	1
8	O	0	9
9	P	0	4
10	Q	0	2
11	R	0	6

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Mol	Chain	#Chirality outliers	#Planarity outliers
12	V	0	4
13	G	0	2
All	All	0	37

All (14) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	O	499	THR	C-N	-37.18	0.48	1.34
9	P	102	VAL	C-N	-21.83	0.83	1.34
9	P	99	LEU	C-N	14.17	1.61	1.34
5	E	252	SER	C-N	10.99	1.59	1.34
13	G	172	LYS	C-N	-10.44	1.10	1.34
12	V	206	ILE	C-N	-10.07	1.10	1.34
9	P	26	GLU	C-N	8.90	1.54	1.34
5	E	289	LEU	C-N	-7.40	1.17	1.34
8	O	686	ARG	NE-CZ	6.08	1.41	1.33
8	O	691	ARG	CZ-NH2	6.06	1.41	1.33
8	O	669	ARG	NE-CZ	5.72	1.40	1.33
8	O	674	GLU	CD-OE1	5.68	1.31	1.25
8	O	676	ARG	NE-CZ	5.41	1.40	1.33
5	E	188	THR	C-N	-5.10	1.22	1.34

All (50) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	O	499	THR	O-C-N	-52.98	37.93	122.70
12	V	138	PRO	CA-C-N	-42.65	23.38	117.20
5	E	252	SER	C-N-CA	-39.14	23.84	121.70
9	P	104	LYS	O-C-N	-35.51	65.89	122.70
9	P	102	VAL	CA-C-N	-31.27	48.40	117.20
5	E	252	SER	O-C-N	28.26	167.91	122.70
5	E	252	SER	CA-C-N	-28.06	55.47	117.20
9	P	102	VAL	C-N-CA	-26.79	54.72	121.70
13	G	172	LYS	O-C-N	-26.60	80.14	122.70
12	V	206	ILE	O-C-N	-21.57	88.18	122.70
8	O	499	THR	CA-C-N	18.64	158.21	117.20
5	E	285	PHE	C-N-CA	-16.45	80.59	121.70
13	G	172	LYS	CA-C-N	16.31	153.07	117.20
5	E	289	LEU	O-C-N	13.42	144.17	122.70
9	P	99	LEU	O-C-N	-13.15	96.12	121.10
9	P	102	VAL	O-C-N	12.75	143.10	122.70
9	P	99	LEU	C-N-CD	-12.05	94.09	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	E	289	LEU	CA-C-N	-11.78	91.28	117.20
12	V	138	PRO	C-N-CA	-9.71	97.41	121.70
12	V	138	PRO	O-C-N	8.65	136.54	122.70
8	O	676	ARG	NE-CZ-NH1	8.51	124.56	120.30
2	B	28	PRO	CA-N-CD	-8.47	99.64	111.50
8	O	691	ARG	NE-CZ-NH1	8.37	124.48	120.30
13	G	172	LYS	C-N-CA	7.95	141.56	121.70
6	F	43	LEU	C-N-CA	7.60	140.71	121.70
12	V	206	ILE	C-N-CA	-7.56	102.80	121.70
8	O	678	MET	CG-SD-CE	-7.24	88.61	100.20
8	O	691	ARG	NE-CZ-NH2	-7.13	116.73	120.30
8	O	499	THR	C-N-CA	7.13	139.52	121.70
5	E	289	LEU	C-N-CA	6.81	138.73	121.70
8	O	686	ARG	NE-CZ-NH2	-6.33	117.13	120.30
8	O	665	MET	CG-SD-CE	-6.29	90.13	100.20
1	A	410	LEU	CA-CB-CG	-6.27	100.88	115.30
5	E	285	PHE	CA-C-N	-6.15	103.67	117.20
5	E	63	LEU	CA-CB-CG	5.88	128.81	115.30
9	P	26	GLU	C-N-CA	-5.55	107.82	121.70
13	G	43	PHE	CA-CB-CG	-5.40	100.95	113.90
2	B	6	ASP	CB-CG-OD2	5.27	123.05	118.30
8	O	686	ARG	NE-CZ-NH1	5.26	122.93	120.30
5	E	63	LEU	CB-CG-CD2	-5.25	102.08	111.00
10	Q	20	ARG	NE-CZ-NH2	-5.23	117.68	120.30
2	B	23	ASP	CB-CG-OD2	5.20	122.97	118.30
2	B	12	ASP	CB-CG-OD2	5.19	122.97	118.30
2	B	17	ASP	CB-CG-OD2	5.19	122.97	118.30
2	B	15	ASP	CB-CG-OD2	5.18	122.96	118.30
2	B	7	ASP	CB-CG-OD2	5.15	122.94	118.30
2	B	11	ASP	CB-CG-OD2	5.12	122.90	118.30
8	O	686	ARG	N-CA-CB	5.07	119.72	110.60
9	P	99	LEU	CA-C-N	5.02	131.15	117.10
4	D	300	LEU	CA-CB-CG	-5.01	103.78	115.30

There are no chirality outliers.

All (37) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	110	LEU	Peptide
1	A	91	TYR	Peptide
2	B	83	THR	Peptide
3	C	114	ARG	Peptide

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Mol	Chain	Res	Type	Group
4	D	309	LEU	Peptide
5	E	117	MET	Peptide
5	E	285	PHE	Mainchain
5	E	289	LEU	Peptide
5	E	77	VAL	Peptide
6	F	221	LEU	Peptide
13	G	172	LYS	Mainchain,Peptide
8	O	191	VAL	Peptide
8	O	193	GLN	Peptide
8	O	291	LYS	Peptide
8	O	499	THR	Mainchain,Peptide
8	O	508	GLN	Peptide
8	O	513	GLN	Peptide
8	O	567	ASN	Peptide
8	O	669	ARG	Sidechain
9	P	102	VAL	Mainchain
9	P	104	LYS	Mainchain
9	P	99	LEU	Mainchain,Peptide
10	Q	60	TYR	Sidechain
10	Q	63	TYR	Sidechain
11	R	40	ASP	Peptide
11	R	41	ASN	Peptide
11	R	50	MET	Peptide
11	R	51	ASP	Peptide
11	R	64	THR	Peptide
11	R	79	PHE	Peptide
12	V	138	PRO	Mainchain,Peptide
12	V	206	ILE	Mainchain,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	A	3348	0	3381	866	0
2	B	3512	0	3490	1227	0
3	C	3183	0	3201	848	0
4	D	3243	0	3231	992	0
5	E	2452	0	2389	1178	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	F	2236	0	2216	1002	0
7	H	1379	0	1362	380	0
8	O	6093	415	6048	2116	0
9	P	821	82	807	469	0
10	Q	795	782	776	444	0
11	R	690	0	648	560	0
12	V	1223	141	1221	427	0
13	G	1630	0	1650	712	0
14	E	1	0	0	0	0
All	All	30606	1420	30420	9193	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 151.

All (9193) 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)
9:P:15:PHE:CD2	10:Q:16:TYR:HB3	1.15	1.66
2:B:14:GLU:HB3	2:B:18:LEU:CD1	1.20	1.65
10:Q:91:LEU:HD23	12:V:184:LEU:CD1	1.19	1.65
8:O:49:TYR:CE1	10:Q:92:LEU:HD11	1.26	1.64
9:P:93:PHE:CE1	10:Q:16:TYR:HE2	1.10	1.63
5:E:242:TRP:CZ2	6:F:219:GLU:HG3	1.14	1.63
8:O:554:THR:CB	11:R:32:LEU:HD12	1.16	1.61
9:P:4:PHE:CE2	10:Q:66:LYS:HD3	1.31	1.61
5:E:323:ILE:HD13	13:G:188:ILE:CD1	1.25	1.60
10:Q:60:TYR:CG	12:V:158:LEU:HB2	1.29	1.60
5:E:242:TRP:CZ2	6:F:219:GLU:CG	1.79	1.60
9:P:4:PHE:CZ	10:Q:66:LYS:CD	1.82	1.60
9:P:28:LYS:HE2	9:P:44:LEU:CD1	1.31	1.59
5:E:245:TYR:CZ	6:F:222:ILE:CD1	1.76	1.59
8:O:725:LEU:CD2	11:R:46:ARG:HH22	0.95	1.59
8:O:49:TYR:HE1	10:Q:92:LEU:CD1	1.13	1.58
9:P:93:PHE:HD1	10:Q:16:TYR:CZ	1.19	1.58
10:Q:91:LEU:HD21	12:V:184:LEU:CB	1.18	1.58
12:V:146:PRO:CA	12:V:147:ILE:HA	1.30	1.58
6:F:261:TYR:CD1	13:G:170:ILE:HD11	1.36	1.57
9:P:15:PHE:HB2	10:Q:18:ILE:CD1	1.23	1.56
5:E:279:GLN:CG	5:E:298:ASP:HB2	1.27	1.56
9:P:4:PHE:CZ	10:Q:66:LYS:HD3	1.08	1.56
5:E:245:TYR:CE2	6:F:222:ILE:CD1	1.85	1.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:250:LEU:CB	6:F:228:ILE:HD13	1.12	1.56
5:E:279:GLN:CB	5:E:298:ASP:HB2	1.36	1.56
8:O:612:LYS:HG2	8:O:657:MET:SD	1.45	1.55
5:E:242:TRP:CH2	6:F:219:GLU:CG	1.87	1.55
6:F:267:LEU:HD13	13:G:177:TRP:CG	1.37	1.55
8:O:692:LYS:HD2	8:O:743:TYR:CB	1.33	1.55
5:E:326:LYS:HB3	13:G:184:VAL:CG1	1.14	1.54
6:F:217:VAL:HG11	13:G:192:VAL:CG2	1.15	1.54
5:E:250:LEU:HB2	6:F:228:ILE:CD1	1.10	1.54
4:D:388:ILE:HG22	4:D:393:PRO:CA	1.36	1.53
5:E:326:LYS:CB	13:G:184:VAL:HG11	1.39	1.53
5:E:326:LYS:CB	13:G:184:VAL:CG1	1.86	1.53
9:P:93:PHE:CE1	10:Q:16:TYR:CE2	1.90	1.52
7:H:201:THR:CG2	13:G:195:ALA:HB2	1.07	1.52
8:O:32:ARG:HE	10:Q:38:ARG:CB	1.21	1.52
10:Q:91:LEU:CD2	12:V:184:LEU:HD13	1.09	1.52
5:E:323:ILE:CD1	13:G:188:ILE:HD12	1.38	1.52
4:D:388:ILE:HG23	4:D:396:THR:CB	1.07	1.51
8:O:527:PHE:CD2	8:O:529:ILE:N	1.74	1.51
8:O:103:CYS:HB3	10:Q:35:GLY:CA	1.05	1.51
5:E:245:TYR:CZ	6:F:222:ILE:CG1	1.93	1.51
4:D:388:ILE:CG2	4:D:396:THR:HB	1.35	1.50
12:V:146:PRO:HA	12:V:147:ILE:CA	1.42	1.50
2:B:420:ARG:HG2	5:E:263:THR:CG2	1.05	1.50
9:P:99:LEU:HB3	9:P:103:MET:CG	1.13	1.50
6:F:217:VAL:CG1	13:G:192:VAL:HG21	1.34	1.50
10:Q:91:LEU:HD21	12:V:184:LEU:CG	1.38	1.50
5:E:279:GLN:HE21	5:E:295:LYS:CE	1.21	1.49
9:P:70:GLN:C	10:Q:59:GLU:HG2	1.16	1.49
4:D:388:ILE:CG2	4:D:396:THR:CB	1.83	1.48
1:A:467:GLN:HG2	2:B:418:GLY:CA	1.41	1.48
8:O:103:CYS:CB	10:Q:35:GLY:HA2	1.02	1.48
8:O:32:ARG:HE	10:Q:38:ARG:CA	1.26	1.47
9:P:70:GLN:C	10:Q:59:GLU:CG	1.81	1.47
9:P:28:LYS:CE	9:P:44:LEU:HD12	1.44	1.47
9:P:93:PHE:CD1	10:Q:16:TYR:CE2	2.02	1.47
8:O:569:LEU:CD1	11:R:19:LYS:H	1.28	1.46
2:B:21:SER:C	8:O:652:LYS:HD3	1.34	1.46
1:A:467:GLN:NE2	2:B:422:THR:HG23	1.24	1.45
7:H:194:GLU:N	13:G:191:GLN:HG2	1.28	1.45
4:D:373:GLN:NE2	13:G:155:ASP:CB	1.76	1.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:32:ARG:NE	8:O:35:TRP:CZ3	1.84	1.45
2:B:24:SER:H	8:O:652:LYS:NZ	1.07	1.45
10:Q:88:LEU:HD22	12:V:179:ASP:CG	1.35	1.45
8:O:692:LYS:NZ	8:O:743:TYR:CD2	1.83	1.44
5:E:279:GLN:CB	5:E:298:ASP:CB	1.96	1.44
8:O:49:TYR:CE1	10:Q:92:LEU:CD1	1.86	1.44
9:P:93:PHE:CD1	10:Q:16:TYR:OH	1.68	1.44
8:O:676:ARG:CD	8:O:710:ARG:HH21	1.29	1.43
8:O:725:LEU:CD2	11:R:46:ARG:NH2	1.78	1.43
2:B:14:GLU:O	2:B:18:LEU:CB	1.65	1.43
8:O:491:ASN:O	8:O:495:LYS:CG	1.65	1.43
4:D:388:ILE:HG22	4:D:393:PRO:CB	1.47	1.43
5:E:332:ASN:CB	13:G:176:GLU:O	1.67	1.43
9:P:11:LYS:NZ	10:Q:14:LYS:HZ2	1.02	1.43
2:B:420:ARG:CG	5:E:263:THR:CG2	1.96	1.43
5:E:252:SER:OG	5:E:320:SER:CB	1.65	1.43
9:P:15:PHE:CD2	10:Q:16:TYR:CB	1.97	1.43
5:E:245:TYR:CZ	6:F:222:ILE:HD11	1.39	1.42
8:O:530:PRO:CD	11:R:27:TRP:CH2	2.00	1.42
10:Q:91:LEU:CD2	12:V:184:LEU:CD1	1.75	1.42
1:A:467:GLN:CG	2:B:418:GLY:HA3	1.51	1.42
5:E:279:GLN:CG	5:E:298:ASP:CB	1.97	1.42
2:B:18:LEU:CD2	2:B:27:GLU:C	1.87	1.41
4:D:314:LYS:HB3	13:G:137:TYR:CE1	1.53	1.41
4:D:384:LEU:HD12	4:D:387:LYS:CD	1.45	1.41
2:B:297:GLN:NE2	11:R:70:VAL:CG1	1.83	1.41
9:P:93:PHE:CD1	10:Q:16:TYR:CZ	2.03	1.41
5:E:242:TRP:CH2	6:F:219:GLU:CB	2.01	1.41
5:E:279:GLN:HB3	5:E:298:ASP:CB	1.50	1.41
5:E:279:GLN:HG2	5:E:294:ARG:NH1	1.36	1.41
2:B:260:GLU:OE2	11:R:66:GLU:CG	1.70	1.40
7:H:201:THR:CG2	13:G:195:ALA:CB	1.99	1.39
8:O:32:ARG:CZ	10:Q:38:ARG:HA	1.51	1.39
8:O:568:TYR:OH	11:R:22:PHE:CE1	1.73	1.39
5:E:247:VAL:HA	6:F:228:ILE:CB	1.33	1.39
9:P:97:PRO:CD	10:Q:52:HIS:CE1	2.00	1.39
8:O:554:THR:HB	11:R:32:LEU:CD1	0.91	1.38
2:B:105:ARG:NH2	8:O:451:MET:SD	1.96	1.38
4:D:384:LEU:CG	4:D:387:LYS:CE	1.94	1.38
5:E:242:TRP:CH2	6:F:219:GLU:HG3	1.51	1.38
2:B:14:GLU:OE2	2:B:67:TRP:CD1	1.75	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:279:GLN:HG2	5:E:294:ARG:CZ	1.51	1.38
4:D:384:LEU:CG	4:D:387:LYS:HE3	1.36	1.37
10:Q:91:LEU:CD2	12:V:184:LEU:HB3	1.55	1.37
6:F:261:TYR:HD1	13:G:170:ILE:CD1	1.36	1.36
2:B:11:ASP:OD1	2:B:67:TRP:CZ2	1.78	1.36
9:P:30:ILE:HD13	10:Q:5:PHE:CE2	1.59	1.36
2:B:14:GLU:CD	2:B:67:TRP:CD1	1.98	1.36
8:O:552:LYS:CA	11:R:33:TRP:HA	1.24	1.36
5:E:245:TYR:OH	6:F:222:ILE:CG1	1.69	1.36
9:P:28:LYS:O	9:P:30:ILE:CD1	1.74	1.36
8:O:563:GLU:HG3	11:R:27:TRP:CB	1.53	1.35
12:V:73:GLN:HG3	12:V:144:GLY:CA	1.54	1.35
9:P:69:PRO:HA	10:Q:62:ASN:ND2	1.03	1.35
5:E:244:LYS:CE	6:F:230:MET:HA	1.54	1.35
5:E:323:ILE:HG21	13:G:188:ILE:CD1	1.57	1.35
9:P:11:LYS:CE	10:Q:14:LYS:NZ	1.90	1.35
2:B:297:GLN:NE2	11:R:70:VAL:HG11	1.39	1.35
8:O:32:ARG:NH1	10:Q:38:ARG:HA	1.37	1.35
8:O:567:ASN:HA	11:R:23:GLU:CG	1.56	1.35
5:E:247:VAL:CA	6:F:228:ILE:HB	1.40	1.34
9:P:4:PHE:CE2	10:Q:66:LYS:CD	2.01	1.34
9:P:26:GLU:O	9:P:28:LYS:N	1.60	1.34
4:D:384:LEU:HG	4:D:387:LYS:CE	1.31	1.34
8:O:490:PHE:CD2	8:O:494:ILE:HG12	1.62	1.34
8:O:32:ARG:NE	10:Q:38:ARG:CA	1.90	1.34
8:O:490:PHE:CG	8:O:494:ILE:HG12	1.42	1.34
9:P:30:ILE:HD13	10:Q:5:PHE:CZ	1.61	1.34
2:B:297:GLN:NE2	11:R:70:VAL:CB	1.90	1.33
9:P:69:PRO:CA	10:Q:62:ASN:ND2	1.90	1.33
8:O:503:LEU:O	8:O:504:GLY:N	1.58	1.33
13:G:169:ASN:O	13:G:173:THR:CG2	1.73	1.33
9:P:15:PHE:HB2	10:Q:18:ILE:CG1	1.56	1.33
8:O:43:TYR:CZ	10:Q:48:GLN:OE1	1.82	1.33
8:O:503:LEU:CB	8:O:504:GLY:N	1.91	1.33
8:O:530:PRO:HD2	11:R:27:TRP:CH2	1.57	1.33
5:E:245:TYR:CE2	6:F:222:ILE:HD11	1.53	1.33
6:F:249:GLU:CA	6:F:250:VAL:N	1.89	1.33
5:E:323:ILE:CG2	13:G:188:ILE:HD13	1.59	1.32
8:O:484:ALA:HA	8:O:507:PHE:CE2	1.61	1.32
9:P:15:PHE:CE2	10:Q:16:TYR:CB	1.80	1.32
5:E:323:ILE:CG1	13:G:188:ILE:HD13	1.58	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:P:11:LYS:HE2	10:Q:14:LYS:NZ	1.42	1.32
9:P:14:ILE:HD13	10:Q:17:GLU:CD	1.47	1.32
5:E:326:LYS:HD2	13:G:184:VAL:CG1	1.59	1.32
2:B:420:ARG:CG	5:E:263:THR:HG21	1.56	1.31
10:Q:80:PHE:O	12:V:161:ARG:HG2	1.29	1.31
2:B:25:ASN:ND2	8:O:647:LYS:CD	1.92	1.31
5:E:242:TRP:CH2	6:F:219:GLU:HB2	1.62	1.31
5:E:246:TRP:HB3	6:F:219:GLU:OE2	1.16	1.31
5:E:250:LEU:CB	6:F:228:ILE:CD1	1.76	1.31
8:O:35:TRP:CB	10:Q:39:GLU:HG3	1.43	1.31
8:O:676:ARG:NE	8:O:710:ARG:HH21	1.25	1.31
5:E:242:TRP:CZ2	6:F:219:GLU:CD	2.03	1.31
5:E:245:TYR:CZ	6:F:222:ILE:HG12	1.57	1.31
8:O:505:ILE:O	11:R:27:TRP:C	1.67	1.31
5:E:243:ASN:C	6:F:229:LYS:HE2	1.48	1.31
7:H:209:ASN:O	13:G:202:HIS:CD2	1.84	1.31
8:O:569:LEU:O	11:R:18:LYS:CD	1.77	1.31
6:F:217:VAL:CB	13:G:192:VAL:HG11	1.58	1.30
9:P:28:LYS:CE	9:P:44:LEU:CD1	2.02	1.30
5:E:245:TYR:CE2	6:F:222:ILE:HD13	1.55	1.30
4:D:388:ILE:CD1	4:D:396:THR:HG21	1.61	1.30
2:B:18:LEU:HD22	2:B:27:GLU:C	1.49	1.30
2:B:259:PHE:CE1	11:R:67:GLU:OE1	1.85	1.30
9:P:15:PHE:CD2	10:Q:58:VAL:HG21	1.67	1.30
5:E:279:GLN:C	5:E:298:ASP:OD2	1.69	1.29
6:F:249:GLU:HA	6:F:250:VAL:N	1.38	1.29
8:O:660:ASP:O	8:O:661:THR:N	1.64	1.29
12:V:140:LEU:CD2	12:V:147:ILE:N	1.93	1.29
2:B:5:GLU:CB	2:B:9:MET:HG2	1.59	1.29
2:B:24:SER:OG	8:O:652:LYS:HE3	1.13	1.29
4:D:315:LEU:HG	13:G:137:TYR:CD2	1.66	1.29
8:O:687:ILE:HD11	8:O:706:GLN:NE2	1.45	1.29
5:E:279:GLN:HB3	5:E:298:ASP:CG	1.48	1.29
8:O:688:MET:SD	8:O:731:ILE:CG2	2.21	1.29
2:B:297:GLN:OE1	11:R:70:VAL:HG21	1.22	1.28
5:E:285:PHE:CD2	12:V:62:VAL:HG11	1.66	1.28
6:F:248:GLY:C	6:F:250:VAL:N	1.85	1.28
8:O:567:ASN:O	11:R:21:ARG:CB	1.81	1.28
10:Q:88:LEU:CD2	12:V:179:ASP:HB3	1.61	1.28
5:E:279:GLN:CG	5:E:294:ARG:NE	1.96	1.28
5:E:279:GLN:NE2	5:E:295:LYS:CE	1.96	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:107:TYR:CD1	10:Q:28:THR:HG22	1.67	1.28
8:O:554:THR:N	11:R:32:LEU:HB2	1.45	1.28
8:O:687:ILE:CD1	8:O:706:GLN:HE22	1.46	1.28
5:E:333:ILE:O	13:G:177:TRP:CB	1.82	1.27
9:P:70:GLN:O	10:Q:59:GLU:HG2	1.28	1.27
2:B:6:ASP:O	2:B:10:CYS:SG	1.91	1.27
6:F:217:VAL:HB	13:G:192:VAL:CG1	1.64	1.27
1:A:467:GLN:CD	2:B:422:THR:HG23	1.53	1.27
2:B:21:SER:N	8:O:652:LYS:HE2	1.45	1.27
2:B:260:GLU:OE2	11:R:66:GLU:CB	1.82	1.27
4:D:388:ILE:CG2	4:D:393:PRO:CA	2.12	1.27
8:O:569:LEU:O	11:R:18:LYS:CE	1.82	1.27
2:B:427:TRP:NE1	5:E:273:LEU:CD1	1.96	1.27
5:E:245:TYR:CE1	6:F:222:ILE:HD11	1.68	1.27
2:B:427:TRP:NE1	5:E:273:LEU:HD11	1.47	1.26
8:O:725:LEU:HD23	11:R:46:ARG:NH2	1.37	1.26
12:V:146:PRO:CA	12:V:148:PHE:H	1.45	1.26
8:O:530:PRO:HD2	11:R:27:TRP:CZ3	1.68	1.26
8:O:688:MET:CE	8:O:725:LEU:HB3	1.64	1.26
2:B:32:LEU:HD21	8:O:649:THR:OG1	1.28	1.26
4:D:388:ILE:HG23	4:D:396:THR:OG1	1.23	1.26
12:V:207:ALA:O	12:V:208:ALA:HA	1.34	1.26
2:B:21:SER:H	8:O:652:LYS:CE	1.48	1.26
5:E:247:VAL:H	6:F:229:LYS:CB	1.47	1.26
5:E:323:ILE:CD1	13:G:188:ILE:CD1	2.00	1.26
1:A:297:ARG:NH1	12:V:142:VAL:HG21	1.52	1.25
2:B:296:SER:CB	11:R:67:GLU:HG2	1.63	1.25
7:H:201:THR:HG23	13:G:195:ALA:CB	1.61	1.25
8:O:569:LEU:HG	11:R:20:LYS:N	1.23	1.25
8:O:657:MET:O	8:O:658:GLN:CB	1.83	1.25
5:E:280:LEU:HG	5:E:298:ASP:OD2	1.11	1.25
9:P:15:PHE:CB	10:Q:18:ILE:CD1	2.13	1.25
2:B:14:GLU:CB	2:B:18:LEU:CD1	2.12	1.25
5:E:279:GLN:CG	5:E:294:ARG:CZ	2.00	1.25
8:O:551:ARG:CB	11:R:33:TRP:O	1.81	1.25
12:V:146:PRO:CB	12:V:148:PHE:H	1.47	1.25
2:B:427:TRP:CD1	5:E:273:LEU:HD12	1.70	1.25
8:O:520:THR:C	8:O:556:LEU:HD21	0.88	1.25
9:P:11:LYS:NZ	10:Q:14:LYS:NZ	1.79	1.25
6:F:197:ARG:NH1	6:F:215:SER:O	1.67	1.25
2:B:439:VAL:HB	3:C:243:LYS:NZ	1.39	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:261:TYR:CD1	13:G:170:ILE:CD1	2.12	1.24
8:O:567:ASN:HA	11:R:23:GLU:CB	1.65	1.24
8:O:657:MET:O	8:O:658:GLN:HB2	1.30	1.24
8:O:692:LYS:HD2	8:O:743:TYR:CG	1.70	1.24
2:B:18:LEU:HD22	2:B:28:PRO:N	1.52	1.24
5:E:279:GLN:NE2	5:E:295:LYS:HE2	1.51	1.24
5:E:326:LYS:CD	13:G:184:VAL:CG1	2.14	1.24
8:O:508:GLN:CG	8:O:559:LEU:HD12	1.68	1.24
8:O:511:VAL:HG11	8:O:551:ARG:NH2	1.50	1.24
2:B:18:LEU:HD21	2:B:27:GLU:O	1.25	1.24
8:O:110:THR:OG1	10:Q:28:THR:CG2	1.86	1.24
8:O:490:PHE:HA	8:O:543:PHE:CZ	1.72	1.24
9:P:15:PHE:CD2	10:Q:18:ILE:HD11	1.72	1.24
10:Q:60:TYR:CG	12:V:158:LEU:CB	2.18	1.24
2:B:14:GLU:O	2:B:18:LEU:HB2	1.10	1.24
5:E:243:ASN:HA	6:F:229:LYS:NZ	1.51	1.24
8:O:676:ARG:NE	8:O:710:ARG:NH2	1.82	1.24
6:F:267:LEU:HD13	13:G:177:TRP:CD1	1.72	1.23
8:O:571:LYS:O	11:R:18:LYS:HG2	1.16	1.23
10:Q:67:TYR:CE2	12:V:155:VAL:N	1.96	1.23
4:D:384:LEU:CD1	4:D:387:LYS:CE	2.16	1.23
5:E:331:ILE:C	13:G:180:GLY:HA3	1.23	1.23
8:O:103:CYS:O	10:Q:36:PRO:HD3	1.33	1.23
8:O:110:THR:OG1	10:Q:28:THR:HG23	1.06	1.23
8:O:552:LYS:CA	11:R:33:TRP:CA	2.15	1.23
8:O:688:MET:SD	8:O:731:ILE:HG21	1.78	1.23
5:E:294:ARG:HA	5:E:295:LYS:CE	1.65	1.22
8:O:727:ASP:O	11:R:55:GLU:N	1.72	1.22
4:D:384:LEU:CD1	4:D:387:LYS:HD2	1.50	1.22
8:O:569:LEU:HD12	11:R:19:LYS:N	1.49	1.22
9:P:97:PRO:CD	10:Q:52:HIS:HE1	1.36	1.22
8:O:656:SER:OG	8:O:658:GLN:HG3	1.40	1.22
8:O:26:MET:HE3	8:O:90:TYR:O	1.36	1.22
2:B:5:GLU:HB2	2:B:9:MET:CG	1.67	1.21
5:E:279:GLN:HG2	5:E:298:ASP:CB	1.64	1.21
9:P:4:PHE:CE2	10:Q:66:LYS:CG	2.24	1.21
9:P:15:PHE:CE2	10:Q:58:VAL:HG21	1.74	1.21
12:V:73:GLN:HB3	12:V:141:ASN:O	1.38	1.21
2:B:18:LEU:HD23	2:B:27:GLU:CB	1.68	1.21
2:B:24:SER:N	8:O:652:LYS:NZ	1.88	1.21
5:E:323:ILE:CG2	13:G:188:ILE:CD1	2.15	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:103:CYS:HB3	10:Q:35:GLY:C	1.60	1.21
8:O:490:PHE:CE1	8:O:539:MET:HB2	1.74	1.21
5:E:243:ASN:HA	6:F:229:LYS:CE	1.68	1.21
12:V:72:SER:OG	12:V:140:LEU:O	1.58	1.21
2:B:14:GLU:O	2:B:18:LEU:CG	1.88	1.21
5:E:280:LEU:CG	5:E:298:ASP:OD2	1.87	1.21
8:O:527:PHE:HB3	8:O:529:ILE:CD1	1.70	1.21
8:O:552:LYS:HA	11:R:33:TRP:CA	1.69	1.21
6:F:217:VAL:CG1	13:G:192:VAL:CG2	2.00	1.20
5:E:247:VAL:C	6:F:228:ILE:HB	1.60	1.20
8:O:490:PHE:CG	8:O:494:ILE:CG1	2.21	1.20
8:O:530:PRO:CD	11:R:27:TRP:CZ3	2.22	1.20
8:O:726:ILE:HG22	11:R:44:ILE:O	1.34	1.20
6:F:217:VAL:CG2	13:G:192:VAL:HG13	1.70	1.20
8:O:491:ASN:O	8:O:495:LYS:HG2	1.20	1.20
8:O:512:LEU:HG	8:O:552:LYS:O	1.06	1.20
9:P:28:LYS:C	9:P:30:ILE:HD12	1.50	1.20
4:D:384:LEU:CD1	4:D:387:LYS:CD	2.06	1.20
4:D:388:ILE:CG2	4:D:393:PRO:HA	1.66	1.20
9:P:27:LEU:HD21	9:P:44:LEU:O	1.37	1.20
8:O:554:THR:CB	11:R:32:LEU:CD1	1.87	1.20
2:B:19:GLU:HB3	8:O:652:LYS:N	1.25	1.19
8:O:527:PHE:HD2	8:O:529:ILE:N	1.12	1.19
8:O:688:MET:HE2	8:O:725:LEU:CD1	1.73	1.19
10:Q:88:LEU:CD2	12:V:179:ASP:CB	2.20	1.19
5:E:250:LEU:CA	6:F:228:ILE:CD1	2.20	1.19
2:B:25:ASN:ND2	8:O:647:LYS:HD2	1.24	1.19
2:B:28:PRO:O	2:B:31:ASP:OD1	1.57	1.19
5:E:242:TRP:CE2	6:F:219:GLU:CD	2.15	1.19
6:F:249:GLU:N	6:F:250:VAL:N	1.89	1.19
2:B:18:LEU:CD2	2:B:27:GLU:O	1.84	1.19
6:F:248:GLY:O	6:F:250:VAL:N	1.74	1.19
8:O:32:ARG:NE	10:Q:38:ARG:HA	1.49	1.19
5:E:246:TRP:CH2	6:F:229:LYS:HA	1.76	1.18
8:O:555:TRP:CZ3	11:R:29:ALA:HB1	1.76	1.18
2:B:17:ASP:HB3	2:B:64:LYS:CD	1.74	1.18
9:P:97:PRO:HD2	10:Q:52:HIS:CE1	1.72	1.18
10:Q:91:LEU:CG	12:V:184:LEU:HD22	1.73	1.18
5:E:247:VAL:N	6:F:229:LYS:HB2	1.58	1.18
8:O:530:PRO:HG2	11:R:27:TRP:CZ3	1.79	1.18
8:O:554:THR:H	11:R:32:LEU:CB	1.54	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:P:16:THR:OG1	10:Q:5:PHE:HE1	0.84	1.18
12:V:73:GLN:HG2	12:V:143:ASP:C	1.62	1.18
5:E:243:ASN:CA	6:F:229:LYS:HE2	1.73	1.17
6:F:261:TYR:CG	13:G:170:ILE:HD11	1.78	1.17
8:O:32:ARG:NE	8:O:35:TRP:CE3	1.99	1.17
8:O:692:LYS:NZ	8:O:743:TYR:CE2	2.12	1.17
9:P:12:THR:CA	10:Q:15:GLU:HB2	1.73	1.17
2:B:21:SER:N	8:O:652:LYS:HG2	1.57	1.17
2:B:22:GLU:O	8:O:647:LYS:CE	1.90	1.17
2:B:297:GLN:HE22	11:R:70:VAL:CB	1.51	1.17
7:H:194:GLU:N	13:G:191:GLN:CG	2.06	1.17
8:O:43:TYR:CE1	10:Q:48:GLN:OE1	1.96	1.17
12:V:73:GLN:CB	12:V:141:ASN:O	1.90	1.17
12:V:146:PRO:CA	12:V:148:PHE:N	2.08	1.17
12:V:146:PRO:HA	12:V:148:PHE:N	1.58	1.17
8:O:553:LEU:HA	11:R:32:LEU:N	1.58	1.17
2:B:260:GLU:OE2	11:R:66:GLU:HB2	1.42	1.17
8:O:511:VAL:CG1	8:O:551:ARG:CZ	2.22	1.17
12:V:146:PRO:HA	12:V:147:ILE:C	1.63	1.17
2:B:292:ASN:CG	11:R:71:ALA:HB2	1.65	1.16
2:B:427:TRP:HD1	5:E:270:SER:HA	1.09	1.16
4:D:315:LEU:CG	13:G:137:TYR:CD2	2.27	1.16
8:O:503:LEU:HB2	8:O:504:GLY:N	1.56	1.16
8:O:530:PRO:CD	11:R:27:TRP:HH2	1.43	1.16
9:P:4:PHE:HZ	10:Q:66:LYS:CD	1.32	1.16
13:G:140:ILE:HG23	13:G:141:ILE:HG13	1.26	1.16
1:A:467:GLN:CG	2:B:418:GLY:CA	2.13	1.16
8:O:511:VAL:HG12	8:O:551:ARG:CZ	1.74	1.16
10:Q:88:LEU:CD2	12:V:179:ASP:CG	2.14	1.16
2:B:441:LYS:NZ	6:F:303:ASN:OD1	1.77	1.16
4:D:389:SER:HB2	4:D:394:GLU:OE1	1.41	1.16
5:E:244:LYS:HE2	6:F:230:MET:HA	1.24	1.16
8:O:103:CYS:CA	10:Q:35:GLY:CA	2.22	1.16
2:B:14:GLU:OE2	2:B:67:TRP:CG	1.99	1.16
5:E:279:GLN:HG3	5:E:294:ARG:CD	1.75	1.16
5:E:327:LEU:CD2	13:G:181:CYS:O	1.93	1.16
8:O:35:TRP:CB	10:Q:39:GLU:CG	2.22	1.16
9:P:17:ASP:OD2	10:Q:65:LEU:CD2	1.94	1.16
2:B:441:LYS:HG3	6:F:306:VAL:CG2	1.61	1.16
10:Q:73:ASP:OD1	12:V:154:PRO:HA	1.43	1.16
8:O:564:VAL:N	11:R:25:LYS:HE2	1.60	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:733:ARG:NH2	11:R:96:LEU:HD21	1.61	1.15
9:P:12:THR:HA	10:Q:15:GLU:HB2	1.17	1.15
2:B:22:GLU:O	8:O:647:LYS:HE3	1.00	1.15
2:B:297:GLN:CD	11:R:70:VAL:HG11	1.64	1.15
2:B:424:LEU:HD12	6:F:289:MET:CE	1.75	1.15
5:E:279:GLN:CG	5:E:294:ARG:CD	2.24	1.15
8:O:490:PHE:HE1	8:O:539:MET:CB	1.59	1.15
9:P:93:PHE:HD1	10:Q:16:TYR:OH	1.07	1.15
1:A:418:VAL:HG23	2:B:401:ARG:CZ	1.77	1.15
2:B:17:ASP:HB3	2:B:64:LYS:HD2	1.21	1.15
2:B:11:ASP:OD1	2:B:67:TRP:CH2	1.98	1.15
4:D:388:ILE:CG2	4:D:396:THR:OG1	1.85	1.15
5:E:250:LEU:HD21	13:G:185:LEU:HD22	1.21	1.14
2:B:438:VAL:HG11	6:F:302:MET:HG2	1.17	1.14
5:E:250:LEU:CD2	13:G:185:LEU:HD22	1.77	1.14
8:O:508:GLN:NE2	8:O:559:LEU:O	1.79	1.14
9:P:93:PHE:CE1	10:Q:55:GLU:CG	2.20	1.14
5:E:242:TRP:CZ3	6:F:219:GLU:HB2	1.82	1.14
8:O:563:GLU:HA	11:R:25:LYS:HE3	1.29	1.14
9:P:4:PHE:CD1	10:Q:62:ASN:OD1	2.00	1.14
2:B:424:LEU:HD13	6:F:289:MET:SD	1.87	1.13
8:O:484:ALA:CA	8:O:507:PHE:HE2	1.60	1.13
8:O:563:GLU:CG	11:R:27:TRP:HB2	1.75	1.13
8:O:733:ARG:NH2	11:R:96:LEU:CD2	2.10	1.13
2:B:14:GLU:CG	2:B:67:TRP:CD1	2.31	1.13
4:D:388:ILE:CG2	4:D:393:PRO:CB	2.25	1.13
8:O:567:ASN:O	11:R:21:ARG:HB3	0.97	1.13
10:Q:91:LEU:CG	12:V:184:LEU:HD13	1.78	1.13
2:B:297:GLN:NE2	11:R:70:VAL:HB	1.54	1.13
2:B:424:LEU:CD1	6:F:289:MET:CE	2.25	1.13
8:O:692:LYS:HD2	8:O:743:TYR:HB3	1.19	1.13
8:O:692:LYS:CD	8:O:743:TYR:CB	2.25	1.13
10:Q:91:LEU:CD2	12:V:184:LEU:CB	2.08	1.13
2:B:296:SER:C	11:R:67:GLU:CG	2.17	1.13
8:O:530:PRO:CG	11:R:27:TRP:HZ3	1.62	1.13
8:O:554:THR:HB	11:R:32:LEU:HD13	1.21	1.13
9:P:28:LYS:O	9:P:30:ILE:HD13	1.47	1.13
10:Q:80:PHE:O	12:V:161:ARG:CG	1.97	1.13
10:Q:91:LEU:CD2	12:V:184:LEU:CG	2.07	1.13
8:O:505:ILE:HG21	11:R:27:TRP:CE3	1.83	1.12
13:G:169:ASN:O	13:G:173:THR:HG23	1.41	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:24:SER:OG	8:O:652:LYS:CE	1.95	1.12
8:O:569:LEU:O	11:R:18:LYS:HD3	1.39	1.12
9:P:11:LYS:CE	10:Q:14:LYS:HZ2	1.56	1.12
5:E:332:ASN:HB2	13:G:176:GLU:O	1.30	1.12
6:F:170:SER:HA	6:F:182:LEU:O	1.46	1.12
8:O:103:CYS:CA	10:Q:35:GLY:HA3	1.79	1.12
9:P:69:PRO:CA	10:Q:62:ASN:HD22	1.51	1.12
5:E:318:LEU:HD23	7:H:200:LEU:HD21	1.32	1.12
8:O:291:LYS:HA	8:O:294:MET:HB3	1.28	1.12
8:O:553:LEU:HA	11:R:32:LEU:H	1.00	1.12
1:A:467:GLN:NE2	2:B:422:THR:CG2	2.12	1.12
1:A:467:GLN:HE22	2:B:422:THR:CG2	1.63	1.12
5:E:332:ASN:ND2	13:G:180:GLY:N	1.96	1.12
8:O:508:GLN:HG2	8:O:559:LEU:HD12	1.13	1.12
8:O:725:LEU:CG	11:R:46:ARG:HH22	1.60	1.12
2:B:14:GLU:HB3	2:B:18:LEU:HD12	1.20	1.11
5:E:294:ARG:HA	5:E:295:LYS:HE2	1.19	1.11
2:B:260:GLU:OE2	11:R:66:GLU:CD	1.89	1.11
5:E:331:ILE:C	13:G:180:GLY:CA	2.14	1.11
6:F:267:LEU:CD1	13:G:177:TRP:CG	2.33	1.11
8:O:612:LYS:HG2	8:O:657:MET:CG	1.80	1.11
13:G:169:ASN:O	13:G:173:THR:HG21	1.47	1.11
8:O:490:PHE:CE1	8:O:539:MET:CB	2.32	1.11
9:P:11:LYS:NZ	10:Q:14:LYS:HG3	1.66	1.11
2:B:18:LEU:HD13	8:O:648:ARG:NE	1.66	1.11
2:B:18:LEU:HB3	8:O:648:ARG:HD3	1.30	1.11
5:E:323:ILE:HG21	13:G:188:ILE:HD11	1.15	1.11
8:O:110:THR:HG21	10:Q:28:THR:CA	1.80	1.11
8:O:568:TYR:OH	11:R:22:PHE:CZ	2.02	1.11
8:O:572:PRO:O	11:R:17:ALA:CA	1.86	1.11
10:Q:91:LEU:CD1	12:V:184:LEU:HD22	1.80	1.11
2:B:292:ASN:OD1	11:R:102:GLU:OE2	1.67	1.10
4:D:388:ILE:CB	4:D:396:THR:OG1	1.99	1.10
1:A:433:VAL:HA	1:A:436:LEU:HB3	1.32	1.10
9:P:13:THR:O	10:Q:16:TYR:C	1.89	1.10
4:D:315:LEU:HD21	13:G:137:TYR:HB3	1.10	1.10
8:O:612:LYS:CG	8:O:657:MET:SD	2.38	1.10
8:O:687:ILE:CD1	8:O:706:GLN:NE2	2.08	1.10
13:G:69:LEU:HD12	13:G:73:GLY:HA3	1.20	1.10
2:B:21:SER:C	8:O:652:LYS:CD	2.19	1.10
2:B:236:VAL:O	2:B:239:GLU:HB3	1.52	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:242:TRP:C	6:F:229:LYS:HZ3	1.55	1.10
8:O:569:LEU:CG	11:R:20:LYS:N	2.13	1.10
9:P:97:PRO:HD3	10:Q:52:HIS:HE1	0.97	1.10
3:C:351:ILE:HB	7:H:125:TYR:HA	1.26	1.10
4:D:266:LYS:HA	4:D:271:ARG:HB2	1.31	1.10
6:F:217:VAL:CG2	13:G:192:VAL:CG1	2.30	1.10
8:O:530:PRO:CG	11:R:27:TRP:CZ3	2.34	1.10
8:O:727:ASP:HB3	11:R:54:ILE:H	1.10	1.10
8:O:731:ILE:HG13	8:O:743:TYR:HA	1.21	1.10
2:B:424:LEU:HA	5:E:266:VAL:CG1	1.71	1.09
5:E:243:ASN:HA	6:F:229:LYS:HZ1	1.03	1.09
8:O:103:CYS:CB	10:Q:35:GLY:CA	1.80	1.09
8:O:422:PHE:HA	8:O:425:ILE:HD13	1.33	1.09
8:O:688:MET:CE	8:O:725:LEU:HD13	1.80	1.09
2:B:21:SER:H	8:O:652:LYS:CD	1.63	1.09
4:D:314:LYS:HD3	13:G:137:TYR:HE1	1.11	1.09
4:D:314:LYS:CB	13:G:137:TYR:CE1	2.35	1.09
5:E:249:THR:HA	6:F:219:GLU:O	1.39	1.09
5:E:326:LYS:CA	13:G:184:VAL:HG11	1.81	1.09
6:F:217:VAL:CB	13:G:192:VAL:CG1	2.24	1.09
8:O:512:LEU:CG	8:O:552:LYS:O	2.00	1.09
9:P:15:PHE:CB	10:Q:18:ILE:HD12	1.78	1.09
1:A:418:VAL:HB	2:B:401:ARG:HB2	1.29	1.09
2:B:296:SER:C	11:R:67:GLU:HG3	1.72	1.09
8:O:567:ASN:HA	11:R:23:GLU:HG2	1.30	1.09
9:P:28:LYS:HE3	9:P:44:LEU:HD12	1.12	1.09
8:O:567:ASN:HA	11:R:23:GLU:HB3	1.33	1.09
9:P:71:ALA:N	10:Q:59:GLU:HG2	1.68	1.09
9:P:93:PHE:HE1	10:Q:16:TYR:CE2	1.44	1.09
1:A:297:ARG:NH1	12:V:142:VAL:HG11	1.66	1.09
4:D:315:LEU:HD21	13:G:137:TYR:CB	1.83	1.09
5:E:333:ILE:O	13:G:177:TRP:HB2	0.92	1.09
8:O:503:LEU:HD22	8:O:532:GLU:HG2	1.10	1.09
8:O:554:THR:CA	11:R:32:LEU:HD12	1.83	1.09
9:P:29:ARG:CB	9:P:33:GLY:HA3	1.82	1.09
2:B:19:GLU:CB	8:O:652:LYS:N	2.10	1.08
5:E:252:SER:HB3	6:F:220:HIS:O	1.54	1.08
8:O:505:ILE:HD12	8:O:533:LEU:CD2	1.83	1.08
8:O:657:MET:O	8:O:658:GLN:N	1.86	1.08
9:P:11:LYS:CE	10:Q:14:LYS:HZ3	1.57	1.08
2:B:32:LEU:CD2	8:O:649:THR:OG1	2.00	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:427:TRP:HD1	5:E:270:SER:CA	1.65	1.08
3:C:9:VAL:HG13	3:C:48:ALA:HA	1.31	1.08
4:D:317:ASN:HA	4:D:361:PHE:HB2	1.32	1.08
5:E:326:LYS:CD	13:G:184:VAL:HG13	1.78	1.08
8:O:103:CYS:O	10:Q:36:PRO:CD	2.00	1.08
12:V:146:PRO:CA	12:V:147:ILE:CA	2.11	1.08
2:B:5:GLU:OE1	2:B:9:MET:SD	2.11	1.08
5:E:247:VAL:HA	6:F:228:ILE:CG2	1.84	1.08
5:E:279:GLN:HG3	5:E:294:ARG:NE	1.62	1.08
5:E:326:LYS:CG	13:G:184:VAL:CG1	2.29	1.08
8:O:676:ARG:HD2	8:O:710:ARG:HH21	1.17	1.08
9:P:16:THR:HA	10:Q:19:SER:H	1.08	1.08
9:P:27:LEU:CD2	9:P:44:LEU:O	2.00	1.08
9:P:99:LEU:HB3	9:P:103:MET:HG3	1.14	1.08
8:O:563:GLU:HA	11:R:25:LYS:CE	1.81	1.08
2:B:18:LEU:HD23	2:B:27:GLU:HB3	1.24	1.08
8:O:657:MET:O	8:O:658:GLN:CA	2.00	1.08
5:E:125:LYS:HG2	5:E:130:LEU:HA	1.36	1.07
5:E:332:ASN:ND2	13:G:179:ASP:HB2	1.69	1.07
8:O:692:LYS:CD	8:O:743:TYR:HB3	1.84	1.07
2:B:14:GLU:HG2	2:B:67:TRP:CD1	1.87	1.07
2:B:420:ARG:CB	5:E:263:THR:HG22	1.84	1.07
5:E:323:ILE:HG12	13:G:188:ILE:HG21	1.09	1.07
8:O:676:ARG:CZ	8:O:710:ARG:NH2	2.18	1.07
9:P:43:ARG:HB3	9:P:78:ALA:HB3	1.34	1.07
9:P:93:PHE:CE1	10:Q:55:GLU:HG3	1.66	1.07
13:G:170:ILE:O	13:G:173:THR:OG1	1.70	1.07
2:B:21:SER:H	8:O:652:LYS:CG	1.66	1.07
7:H:201:THR:HG23	13:G:195:ALA:HB2	1.10	1.07
8:O:26:MET:CE	8:O:90:TYR:O	2.00	1.07
8:O:490:PHE:O	8:O:494:ILE:N	1.74	1.07
8:O:687:ILE:HD11	8:O:706:GLN:HE22	0.93	1.07
12:V:71:PRO:HB3	12:V:110:HIS:HB3	1.37	1.07
2:B:14:GLU:CB	2:B:18:LEU:HD11	1.74	1.07
5:E:246:TRP:CZ3	6:F:229:LYS:HA	1.88	1.07
8:O:527:PHE:CE2	8:O:529:ILE:N	2.21	1.07
2:B:296:SER:HB2	11:R:67:GLU:HG2	1.14	1.07
4:D:304:VAL:HA	4:D:308:ASN:HB3	1.37	1.07
9:P:99:LEU:C	9:P:100:PRO:O	1.92	1.07
5:E:245:TYR:CD2	6:F:222:ILE:HD11	1.88	1.06
5:E:285:PHE:CZ	12:V:62:VAL:HG21	1.88	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:323:ILE:CB	13:G:188:ILE:HD13	1.85	1.06
6:F:217:VAL:HG12	13:G:192:VAL:HG21	1.32	1.06
8:O:530:PRO:HG2	11:R:27:TRP:HZ3	1.11	1.06
9:P:4:PHE:HZ	10:Q:66:LYS:HD2	1.16	1.06
9:P:14:ILE:CD1	10:Q:17:GLU:OE1	2.03	1.06
12:V:146:PRO:HD3	12:V:148:PHE:CD1	1.88	1.06
1:A:297:ARG:HH11	12:V:142:VAL:HG21	1.04	1.06
2:B:210:ASN:HB3	2:B:213:LYS:HE2	1.38	1.06
2:B:296:SER:OG	11:R:67:GLU:OE2	1.73	1.06
2:B:368:ARG:HD3	4:D:353:ASP:HB2	1.33	1.06
5:E:78:MET:HB2	5:E:110:GLN:HA	1.34	1.06
6:F:217:VAL:HG21	13:G:192:VAL:HG13	1.11	1.06
6:F:258:ARG:HD2	13:G:160:ARG:N	1.68	1.06
8:O:569:LEU:CD1	11:R:19:LYS:N	2.06	1.06
8:O:676:ARG:NE	8:O:710:ARG:NE	2.04	1.06
2:B:427:TRP:CB	5:E:270:SER:HB2	1.86	1.06
2:B:14:GLU:CD	2:B:67:TRP:NE1	2.09	1.06
9:P:23:THR:HA	9:P:56:THR:HA	1.36	1.06
2:B:18:LEU:HD22	8:O:648:ARG:HD2	1.35	1.05
2:B:424:LEU:CD1	6:F:289:MET:HE2	1.85	1.05
8:O:530:PRO:HD3	11:R:27:TRP:HH2	0.95	1.05
8:O:568:TYR:OH	11:R:22:PHE:CD1	1.99	1.05
8:O:676:ARG:NE	8:O:710:ARG:CZ	2.18	1.05
8:O:676:ARG:CZ	8:O:710:ARG:CZ	2.34	1.05
8:O:676:ARG:HE	8:O:710:ARG:NE	1.53	1.05
9:P:11:LYS:HZ1	10:Q:14:LYS:CE	1.68	1.05
9:P:15:PHE:HB2	10:Q:18:ILE:HD12	1.12	1.05
12:V:146:PRO:C	12:V:147:ILE:HA	1.76	1.05
13:G:117:LEU:HD21	13:G:128:LEU:HD12	1.29	1.05
5:E:250:LEU:CB	6:F:228:ILE:HD11	1.86	1.05
5:E:279:GLN:HG2	5:E:298:ASP:HB3	1.25	1.05
8:O:106:ARG:NH1	10:Q:27:PRO:O	1.87	1.05
8:O:527:PHE:HB3	8:O:529:ILE:HD12	1.07	1.05
9:P:14:ILE:HD13	10:Q:17:GLU:OE1	1.55	1.05
4:D:101:GLU:HG3	4:D:137:LYS:HB3	1.35	1.05
4:D:141:VAL:HG13	4:D:174:LEU:HD22	1.39	1.05
8:O:49:TYR:CZ	10:Q:92:LEU:HD11	1.90	1.05
1:A:343:GLN:HA	1:A:347:ILE:HB	1.33	1.05
5:E:237:LEU:HD13	6:F:48:ILE:HG22	1.37	1.05
5:E:250:LEU:C	6:F:228:ILE:HD11	1.77	1.05
5:E:293:ASP:HA	5:E:295:LYS:HA	1.38	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:563:GLU:C	11:R:25:LYS:HE2	1.75	1.05
8:O:676:ARG:CD	8:O:710:ARG:NH2	2.14	1.05
4:D:373:GLN:NE2	13:G:155:ASP:HB3	0.98	1.05
5:E:241:LEU:HD13	6:F:190:LEU:HB2	1.34	1.05
5:E:246:TRP:HB3	6:F:219:GLU:CD	1.76	1.05
8:O:529:ILE:HA	8:O:533:LEU:HD12	1.31	1.05
8:O:684:ILE:HG22	8:O:725:LEU:HD11	1.38	1.05
4:D:127:LEU:HD13	4:D:151:ILE:HG12	1.36	1.04
5:E:250:LEU:O	5:E:328:PHE:CE2	2.11	1.04
5:E:323:ILE:CG1	13:G:188:ILE:CD1	2.32	1.04
6:F:70:GLY:O	6:F:124:TRP:HA	1.56	1.04
8:O:32:ARG:CG	10:Q:38:ARG:HB3	1.87	1.04
8:O:484:ALA:HA	8:O:507:PHE:HE2	0.89	1.04
2:B:296:SER:HB2	11:R:67:GLU:CG	1.86	1.04
8:O:7:VAL:HA	8:O:53:LEU:HD11	1.38	1.04
2:B:18:LEU:HB3	8:O:648:ARG:CD	1.86	1.04
2:B:192:THR:CG2	8:O:474:HIS:NE2	2.21	1.04
2:B:295:ASP:O	11:R:70:VAL:O	1.76	1.04
2:B:439:VAL:CB	3:C:243:LYS:NZ	2.04	1.04
5:E:250:LEU:CD2	5:E:323:ILE:HG22	1.86	1.04
8:O:483:SER:O	8:O:507:PHE:CZ	2.11	1.04
8:O:676:ARG:NE	8:O:710:ARG:HE	1.56	1.04
13:G:94:ASN:HA	13:G:97:LYS:HD2	1.40	1.04
3:C:43:ASP:HA	3:C:58:VAL:HG13	1.40	1.04
8:O:49:TYR:HE1	10:Q:92:LEU:HD12	0.88	1.04
9:P:16:THR:HA	10:Q:19:SER:N	1.70	1.04
10:Q:88:LEU:HD22	12:V:179:ASP:CB	1.85	1.04
2:B:296:SER:CA	11:R:67:GLU:HG2	1.86	1.03
3:C:22:THR:HA	3:C:95:TYR:HB3	1.37	1.03
4:D:55:GLU:HA	4:D:59:LEU:HD21	1.39	1.03
8:O:103:CYS:C	10:Q:35:GLY:HA3	1.79	1.03
8:O:676:ARG:HH21	8:O:710:ARG:CB	1.71	1.03
8:O:693:VAL:C	8:O:699:LEU:HD23	1.78	1.03
2:B:19:GLU:CB	8:O:652:LYS:H	1.67	1.03
2:B:297:GLN:CD	11:R:70:VAL:HG21	1.78	1.03
2:B:368:ARG:HD3	4:D:353:ASP:CB	1.87	1.03
2:B:424:LEU:HD12	6:F:289:MET:HE2	1.35	1.03
5:E:242:TRP:CE2	6:F:219:GLU:OE2	2.12	1.03
5:E:243:ASN:CA	6:F:229:LYS:HZ1	1.70	1.03
5:E:280:LEU:N	5:E:298:ASP:OD2	1.91	1.03
8:O:491:ASN:O	8:O:495:LYS:HG3	1.53	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:567:ASN:CA	11:R:23:GLU:CG	2.36	1.03
8:O:575:ALA:HB1	8:O:653:ILE:HG12	1.37	1.03
2:B:205:TYR:HA	2:B:208:GLN:HB2	1.39	1.03
5:E:243:ASN:O	6:F:229:LYS:HE2	1.59	1.03
5:E:285:PHE:CE2	12:V:62:VAL:HG21	1.94	1.03
6:F:151:PHE:O	6:F:167:VAL:HA	1.59	1.03
7:H:33:THR:HG22	7:H:35:PRO:HD2	1.36	1.03
8:O:567:ASN:CA	11:R:23:GLU:HG2	1.86	1.03
2:B:297:GLN:N	11:R:67:GLU:OE2	1.91	1.03
4:D:235:LEU:HA	4:D:300:LEU:HD22	1.38	1.03
5:E:285:PHE:CG	12:V:62:VAL:HG11	1.93	1.03
7:H:209:ASN:C	13:G:202:HIS:CD2	2.30	1.03
8:O:102:ASP:HA	8:O:105:TYR:HB3	1.34	1.03
8:O:505:ILE:C	11:R:27:TRP:C	2.16	1.03
5:E:279:GLN:CD	5:E:298:ASP:HB2	1.79	1.02
6:F:258:ARG:HD2	13:G:159:GLY:CA	1.89	1.02
9:P:26:GLU:C	9:P:28:LYS:N	2.10	1.02
10:Q:67:TYR:HB2	12:V:155:VAL:HG21	1.03	1.02
12:V:140:LEU:HD23	12:V:147:ILE:N	1.65	1.02
13:G:47:LEU:HD12	13:G:52:VAL:HG23	1.40	1.02
2:B:251:PHE:HA	2:B:254:ALA:HB3	1.42	1.02
2:B:292:ASN:OD1	11:R:71:ALA:HB1	1.60	1.02
3:C:85:ILE:HG21	3:C:124:LEU:HA	1.41	1.02
5:E:243:ASN:CA	6:F:229:LYS:CE	2.32	1.02
7:H:194:GLU:N	13:G:187:GLY:O	1.91	1.02
7:H:201:THR:HG21	13:G:195:ALA:HB2	1.06	1.02
9:P:7:ILE:HD11	9:P:27:LEU:O	1.59	1.02
12:V:86:PRO:HB2	12:V:98:TYR:HB2	1.39	1.02
2:B:441:LYS:HG3	6:F:306:VAL:HG21	1.08	1.02
4:D:384:LEU:O	4:D:387:LYS:CB	2.06	1.02
5:E:332:ASN:ND2	13:G:179:ASP:CB	2.22	1.02
6:F:258:ARG:HD2	13:G:159:GLY:HA2	1.36	1.02
7:H:80:ARG:HB3	7:H:89:ILE:HG12	1.37	1.02
7:H:123:GLN:HA	7:H:166:LYS:HE3	1.41	1.02
1:A:467:GLN:OE1	2:B:422:THR:CG2	2.07	1.02
2:B:295:ASP:HB3	11:R:71:ALA:HA	1.41	1.02
5:E:246:TRP:CZ2	6:F:229:LYS:O	2.12	1.02
7:H:209:ASN:O	13:G:202:HIS:NE2	1.91	1.02
8:O:676:ARG:HH21	8:O:710:ARG:CG	1.72	1.02
12:V:74:VAL:HG23	12:V:140:LEU:N	1.75	1.02
2:B:21:SER:O	8:O:652:LYS:HD3	1.58	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:314:LYS:HD3	13:G:137:TYR:CE1	1.94	1.02
8:O:575:ALA:HB2	8:O:650:LYS:HG2	1.38	1.02
2:B:27:GLU:CD	2:B:64:LYS:HG2	1.81	1.01
4:D:388:ILE:HG21	4:D:396:THR:HB	1.36	1.01
8:O:35:TRP:HB2	10:Q:39:GLU:HG3	1.37	1.01
8:O:35:TRP:HB3	10:Q:39:GLU:CG	1.84	1.01
9:P:17:ASP:OD2	10:Q:65:LEU:HD22	1.60	1.01
9:P:30:ILE:CD1	10:Q:5:PHE:CZ	2.41	1.01
6:F:254:HIS:CG	13:G:162:ILE:HG12	1.90	1.01
9:P:14:ILE:CD1	10:Q:17:GLU:CD	2.16	1.01
12:V:73:GLN:HG3	12:V:144:GLY:HA3	1.06	1.01
12:V:146:PRO:HB3	12:V:148:PHE:H	1.21	1.01
5:E:323:ILE:HB	6:F:221:LEU:HD21	1.42	1.01
6:F:264:CYS:SG	13:G:174:LEU:HD23	2.00	1.01
8:O:297:MET:HG3	8:O:301:LEU:HD12	1.41	1.01
8:O:725:LEU:HD21	11:R:46:ARG:HH22	1.20	1.01
1:A:146:GLN:HA	1:A:149:PRO:HG2	1.42	1.01
2:B:24:SER:N	8:O:652:LYS:HZ1	1.52	1.01
2:B:420:ARG:HB3	5:E:263:THR:HG22	1.41	1.01
5:E:246:TRP:CB	6:F:219:GLU:OE2	2.09	1.01
5:E:332:ASN:HB3	13:G:176:GLU:O	1.55	1.01
7:H:201:THR:HG22	13:G:195:ALA:HB2	1.40	1.01
5:E:242:TRP:O	6:F:229:LYS:NZ	1.94	1.01
5:E:252:SER:OG	5:E:320:SER:HB2	0.84	1.01
6:F:217:VAL:HG11	13:G:192:VAL:HG22	1.04	1.01
6:F:267:LEU:HD22	13:G:177:TRP:NE1	1.74	1.01
8:O:569:LEU:O	11:R:18:LYS:HE3	1.56	1.01
8:O:688:MET:HE1	8:O:725:LEU:CB	1.90	1.01
10:Q:67:TYR:CB	12:V:155:VAL:HG21	1.85	1.01
2:B:21:SER:O	8:O:652:LYS:HB3	1.60	1.00
2:B:292:ASN:OD1	11:R:71:ALA:CB	2.08	1.00
2:B:420:ARG:HG2	5:E:263:THR:HG22	1.32	1.00
4:D:388:ILE:CB	4:D:393:PRO:HB3	1.86	1.00
5:E:242:TRP:HH2	6:F:219:GLU:CB	1.69	1.00
5:E:250:LEU:N	6:F:225:HIS:HB2	1.73	1.00
6:F:254:HIS:CE1	13:G:162:ILE:HD13	1.96	1.00
8:O:594:VAL:HG13	8:O:598:GLU:HB2	1.41	1.00
8:O:692:LYS:HD2	8:O:743:TYR:HB2	1.43	1.00
13:G:69:LEU:HD23	13:G:96:LEU:HD11	1.40	1.00
2:B:420:ARG:HG2	5:E:263:THR:CB	1.89	1.00
2:B:427:TRP:HB2	5:E:270:SER:HB2	1.43	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:441:LYS:CD	6:F:306:VAL:HB	1.87	1.00
7:H:84:ARG:HA	7:H:89:ILE:HD11	1.36	1.00
8:O:103:CYS:CA	10:Q:35:GLY:HA2	1.86	1.00
8:O:469:PHE:HA	8:O:472:LYS:HD2	1.42	1.00
1:A:420:ALA:HB3	1:A:460:LEU:HB3	1.42	1.00
4:D:2:ALA:HA	4:D:44:ALA:HB2	1.43	1.00
4:D:9:LEU:HD22	4:D:26:TYR:HA	1.42	1.00
5:E:117:MET:HG2	5:E:120:TYR:HB3	1.42	1.00
5:E:159:GLN:HG2	5:E:165:PHE:HB3	1.43	1.00
5:E:244:LYS:CE	6:F:230:MET:CA	2.40	1.00
5:E:247:VAL:H	6:F:229:LYS:HB2	1.16	1.00
2:B:298:GLU:HG2	11:R:35:TRP:HE3	1.26	1.00
4:D:384:LEU:HD12	4:D:387:LYS:CG	1.92	1.00
8:O:490:PHE:HA	8:O:543:PHE:CE2	1.96	1.00
9:P:43:ARG:HG2	9:P:88:LEU:HD12	1.44	1.00
9:P:12:THR:HA	10:Q:15:GLU:CB	1.90	1.00
9:P:100:PRO:HD3	10:Q:85:GLU:HA	1.41	1.00
12:V:118:LEU:HD12	12:V:120:ARG:HD3	1.44	1.00
3:C:85:ILE:HG22	3:C:126:GLN:HB2	1.44	1.00
8:O:32:ARG:HG3	10:Q:38:ARG:HB3	1.39	1.00
8:O:511:VAL:CG1	8:O:551:ARG:NH2	2.22	1.00
8:O:559:LEU:HB2	11:R:30:VAL:CG2	1.90	1.00
9:P:13:THR:N	10:Q:15:GLU:HB2	1.75	1.00
5:E:243:ASN:CA	6:F:229:LYS:NZ	2.23	0.99
7:H:46:LEU:HA	7:H:109:LEU:HD13	1.44	0.99
9:P:15:PHE:CB	10:Q:18:ILE:HG13	1.92	0.99
5:E:280:LEU:HG	5:E:298:ASP:CG	1.81	0.99
12:V:73:GLN:CG	12:V:144:GLY:CA	2.40	0.99
2:B:10:CYS:SG	2:B:70:LYS:HE3	2.02	0.99
9:P:15:PHE:CB	10:Q:18:ILE:CG1	2.39	0.99
9:P:93:PHE:CD1	10:Q:55:GLU:HB2	1.96	0.99
2:B:116:LEU:HD23	2:B:128:LEU:HD11	1.41	0.99
5:E:57:ILE:HG12	5:E:92:ILE:HB	1.44	0.99
6:F:152:LEU:HA	6:F:166:SER:O	1.61	0.99
8:O:551:ARG:HB2	11:R:33:TRP:O	1.19	0.99
3:C:317:LEU:HD23	3:C:322:MET:HE2	1.44	0.99
2:B:14:GLU:CB	2:B:18:LEU:HD12	1.80	0.99
5:E:246:TRP:CE3	6:F:229:LYS:HA	1.97	0.99
8:O:32:ARG:CZ	10:Q:38:ARG:CA	2.36	0.99
8:O:563:GLU:HG3	11:R:27:TRP:HB2	1.02	0.99
10:Q:88:LEU:HD21	12:V:179:ASP:HB3	1.39	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:32:ARG:NH1	10:Q:38:ARG:CA	2.25	0.99
2:B:424:LEU:CA	5:E:266:VAL:CG1	2.23	0.99
8:O:32:ARG:HH11	10:Q:38:ARG:CA	1.75	0.99
8:O:43:TYR:OH	10:Q:48:GLN:OE1	1.81	0.99
8:O:725:LEU:CG	11:R:46:ARG:NH2	2.23	0.99
10:Q:60:TYR:CB	12:V:158:LEU:HB2	1.93	0.99
6:F:123:GLY:HA2	6:F:142:VAL:HG11	1.41	0.99
8:O:35:TRP:HB3	10:Q:39:GLU:HG3	1.00	0.99
1:A:198:ARG:HG2	1:A:224:ALA:HB1	1.45	0.99
5:E:327:LEU:HD22	13:G:181:CYS:HB2	1.42	0.99
8:O:32:ARG:NE	10:Q:38:ARG:HB3	1.76	0.99
9:P:15:PHE:CG	10:Q:58:VAL:HG21	1.98	0.99
1:A:125:THR:HA	1:A:210:ASP:HA	1.45	0.98
5:E:285:PHE:CE1	12:V:62:VAL:HG21	1.97	0.98
8:O:490:PHE:CZ	8:O:494:ILE:HG21	1.97	0.98
8:O:527:PHE:CB	8:O:529:ILE:HD12	1.91	0.98
8:O:611:THR:HB	8:O:630:GLU:HA	1.39	0.98
8:O:700:ILE:HB	8:O:718:ILE:HG13	1.42	0.98
8:O:569:LEU:HD12	11:R:19:LYS:H	0.86	0.98
4:D:314:LYS:HB3	13:G:137:TYR:CZ	1.97	0.98
8:O:530:PRO:HD3	11:R:27:TRP:CH2	1.80	0.98
2:B:105:ARG:NH2	8:O:451:MET:CE	2.25	0.98
12:V:84:VAL:HB	12:V:101:LEU:HB2	1.45	0.98
12:V:146:PRO:HB3	12:V:148:PHE:HB2	1.45	0.98
1:A:433:VAL:HG22	1:A:436:LEU:HD23	1.44	0.98
2:B:21:SER:N	8:O:652:LYS:CE	2.12	0.98
3:C:328:LEU:HB3	3:C:334:ALA:HB2	1.45	0.98
5:E:246:TRP:CZ2	6:F:229:LYS:CA	2.43	0.98
8:O:379:ARG:HD3	8:O:387:ALA:HB2	1.44	0.98
8:O:566:MET:HA	11:R:18:LYS:CB	1.92	0.98
10:Q:91:LEU:HD11	12:V:184:LEU:HD22	1.42	0.98
5:E:167:ALA:HB3	5:E:186:PHE:HB2	1.44	0.98
5:E:318:LEU:HB2	6:F:286:VAL:HG11	1.43	0.98
6:F:254:HIS:NE2	13:G:44:GLY:HA3	1.78	0.98
6:F:267:LEU:HD22	13:G:177:TRP:CD1	1.99	0.98
4:D:388:ILE:HD13	4:D:396:THR:HG21	0.99	0.98
8:O:688:MET:HE1	8:O:725:LEU:HB3	1.00	0.98
9:P:29:ARG:CB	9:P:33:GLY:CA	2.42	0.98
12:V:73:GLN:CG	12:V:144:GLY:HA3	1.92	0.98
5:E:243:ASN:C	6:F:229:LYS:CE	2.32	0.98
5:E:327:LEU:HD21	13:G:181:CYS:O	1.60	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:H:155:ALA:HA	7:H:162:VAL:HG13	1.45	0.98
8:O:35:TRP:CD1	10:Q:38:ARG:NH2	2.04	0.98
1:A:297:ARG:NH1	12:V:142:VAL:CG2	2.26	0.98
1:A:297:ARG:CZ	12:V:142:VAL:HG11	1.93	0.98
9:P:28:LYS:O	9:P:30:ILE:HA	1.64	0.98
2:B:439:VAL:CB	3:C:243:LYS:HZ3	1.67	0.97
5:E:249:THR:CA	6:F:219:GLU:O	1.97	0.97
6:F:261:TYR:CB	13:G:170:ILE:HD11	1.95	0.97
2:B:21:SER:N	8:O:652:LYS:CG	2.23	0.97
2:B:330:LEU:HA	2:B:333:ASN:HB2	1.47	0.97
9:P:71:ALA:N	10:Q:59:GLU:CD	2.18	0.97
2:B:297:GLN:HE22	11:R:70:VAL:HB	0.83	0.97
8:O:243:LEU:HD22	8:O:267:GLN:HG2	1.47	0.97
9:P:4:PHE:HE2	10:Q:66:LYS:CG	1.73	0.97
2:B:441:LYS:CD	6:F:303:ASN:OD1	2.13	0.97
5:E:273:LEU:HD23	5:E:303:ALA:HB1	1.47	0.97
7:H:209:ASN:OXT	13:G:202:HIS:CG	2.17	0.97
1:A:341:GLU:HG3	1:A:344:ARG:HH21	1.25	0.97
7:H:114:ARG:HA	7:H:137:VAL:HG11	1.43	0.97
8:O:503:LEU:HB3	8:O:504:GLY:N	1.75	0.97
3:C:339:LEU:O	3:C:343:GLU:HB2	1.65	0.97
5:E:185:ALA:HB3	5:E:224:LEU:HB2	1.43	0.97
5:E:250:LEU:C	6:F:228:ILE:CD1	2.32	0.97
8:O:32:ARG:HE	10:Q:38:ARG:HB3	1.28	0.97
8:O:107:TYR:CD1	10:Q:28:THR:CG2	2.47	0.97
8:O:490:PHE:CE2	8:O:494:ILE:HG21	1.99	0.97
8:O:571:LYS:O	11:R:18:LYS:CG	2.12	0.97
2:B:438:VAL:HG11	6:F:302:MET:CG	1.95	0.97
4:D:388:ILE:HG22	4:D:393:PRO:HB2	1.46	0.97
5:E:285:PHE:CG	12:V:62:VAL:CG1	2.48	0.97
8:O:548:PHE:HB2	11:R:33:TRP:CE3	2.00	0.97
8:O:692:LYS:CE	8:O:743:TYR:CD2	2.48	0.97
2:B:41:ALA:HB2	2:B:53:SER:HB2	1.46	0.97
5:E:250:LEU:O	6:F:228:ILE:HD11	1.63	0.97
5:E:323:ILE:HG12	13:G:188:ILE:HD13	1.46	0.97
8:O:395:CYS:HA	8:O:398:LEU:HB2	1.46	0.97
8:O:505:ILE:HD11	8:O:532:GLU:HB2	1.47	0.97
9:P:12:THR:C	10:Q:15:GLU:HB2	1.85	0.97
9:P:13:THR:C	10:Q:16:TYR:CA	2.26	0.96
12:V:175:TYR:HA	12:V:178:LEU:HG	1.47	0.96
4:D:334:LYS:HG3	4:D:337:LYS:HD3	1.45	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:247:VAL:N	6:F:229:LYS:CB	2.19	0.96
8:O:566:MET:HA	11:R:18:LYS:CA	1.87	0.96
2:B:427:TRP:CD1	5:E:270:SER:HA	1.99	0.96
4:D:388:ILE:HD13	4:D:396:THR:CG2	1.94	0.96
8:O:103:CYS:SG	10:Q:35:GLY:HA2	2.04	0.96
2:B:424:LEU:HA	5:E:266:VAL:HG12	1.44	0.96
8:O:44:ALA:O	8:O:48:ALA:HB2	1.66	0.96
9:P:15:PHE:CE2	10:Q:16:TYR:HB2	1.98	0.96
1:A:467:GLN:CD	2:B:422:THR:CG2	2.33	0.96
5:E:245:TYR:CD1	6:F:222:ILE:HD11	2.01	0.96
8:O:409:ASN:HA	8:O:412:GLU:HB2	1.48	0.96
5:E:279:GLN:NE2	5:E:295:LYS:HE3	1.78	0.96
8:O:565:LYS:HG2	8:O:574:VAL:HG13	1.44	0.96
5:E:272:LYS:O	5:E:275:GLN:HB2	1.65	0.96
8:O:148:ARG:HB3	8:O:191:VAL:HG11	1.47	0.96
8:O:695:ARG:HA	8:O:740:GLU:HA	1.43	0.96
10:Q:67:TYR:HE2	12:V:155:VAL:N	1.44	0.96
2:B:296:SER:CB	11:R:67:GLU:CG	2.43	0.96
2:B:427:TRP:CD1	5:E:273:LEU:CD1	2.41	0.96
7:H:129:ILE:HG23	7:H:160:ARG:HD3	1.47	0.96
9:P:97:PRO:HD2	10:Q:52:HIS:NE2	1.81	0.96
10:Q:60:TYR:CD2	12:V:158:LEU:HB2	1.99	0.96
13:G:108:MET:HB3	13:G:111:ILE:HD13	1.47	0.96
1:A:135:HIS:HB2	1:A:162:LEU:HD22	1.46	0.96
5:E:247:VAL:O	6:F:228:ILE:HB	1.63	0.96
5:E:326:LYS:CB	13:G:184:VAL:HG12	1.66	0.96
7:H:39:GLN:HG3	7:H:101:THR:HG23	1.48	0.96
8:O:494:ILE:H	8:O:494:ILE:HD12	1.28	0.95
8:O:503:LEU:O	8:O:504:GLY:CA	2.14	0.95
1:A:246:VAL:HG12	1:A:319:LEU:HD23	1.44	0.95
5:E:298:ASP:C	5:E:299:LYS:N	2.18	0.95
8:O:560:CYS:HB2	8:O:579:THR:HG23	1.47	0.95
2:B:14:GLU:HG2	2:B:67:TRP:HD1	1.30	0.95
2:B:427:TRP:HE1	5:E:273:LEU:CD1	1.73	0.95
3:C:69:PRO:HD2	3:C:114:ARG:HH21	1.29	0.95
7:H:194:GLU:HB2	7:H:197:LEU:HB2	1.48	0.95
5:E:326:LYS:CG	13:G:184:VAL:HG11	1.92	0.95
5:E:56:LYS:HG3	5:E:89:THR:HG21	1.45	0.95
8:O:249:ARG:HG3	8:O:252:LYS:HD2	1.49	0.95
1:A:213:ASP:HB3	1:A:216:ASN:HD22	1.31	0.95
5:E:246:TRP:CZ2	6:F:229:LYS:HA	1.73	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:258:ARG:CD	13:G:159:GLY:HA2	1.95	0.95
7:H:209:ASN:OXT	13:G:202:HIS:CD2	2.19	0.95
8:O:544:TYR:OH	11:R:33:TRP:CE3	2.20	0.95
5:E:245:TYR:OH	6:F:222:ILE:HG12	0.78	0.95
8:O:490:PHE:CD1	8:O:494:ILE:HG12	2.01	0.95
3:C:52:GLN:HA	3:C:88:CYS:HB3	1.48	0.95
2:B:17:ASP:CB	2:B:64:LYS:HD2	1.97	0.95
2:B:245:HIS:HA	2:B:248:GLU:HB3	1.48	0.95
5:E:332:ASN:HD22	13:G:180:GLY:N	1.61	0.95
9:P:30:ILE:CD1	10:Q:5:PHE:CE2	2.49	0.95
1:A:277:GLN:HG2	1:A:280:ALA:HA	1.47	0.95
2:B:165:TYR:HA	2:B:168:LEU:HB3	1.44	0.95
6:F:72:LEU:HA	6:F:86:SER:HB3	1.49	0.95
8:O:107:TYR:HD1	10:Q:28:THR:HG22	0.99	0.95
13:G:44:GLY:HA3	13:G:162:ILE:HD13	1.48	0.95
5:E:293:ASP:CA	5:E:295:LYS:HA	1.77	0.94
6:F:261:TYR:HA	13:G:170:ILE:HD12	1.47	0.94
1:A:418:VAL:HB	2:B:401:ARG:CB	1.96	0.94
8:O:32:ARG:HE	8:O:35:TRP:CE3	1.21	0.94
8:O:32:ARG:HE	8:O:35:TRP:HE3	1.03	0.94
8:O:688:MET:CE	8:O:725:LEU:CB	2.45	0.94
1:A:339:ARG:HH12	1:A:370:TYR:HA	1.33	0.94
8:O:681:GLN:NE2	8:O:728:LYS:HZ2	1.64	0.94
9:P:98:GLU:O	10:Q:85:GLU:HG3	1.66	0.94
8:O:490:PHE:HB2	8:O:543:PHE:CE2	2.02	0.94
10:Q:67:TYR:HB2	12:V:155:VAL:CG2	1.97	0.94
1:A:286:LYS:HB3	1:A:305:CYS:HB3	1.46	0.94
3:C:192:TYR:HA	3:C:195:LEU:HB2	1.47	0.94
5:E:245:TYR:CE1	6:F:222:ILE:CG1	2.50	0.94
5:E:323:ILE:HG22	6:F:221:LEU:HD11	1.49	0.94
9:P:28:LYS:HE2	9:P:44:LEU:HD11	0.97	0.94
3:C:348:PHE:HB3	3:C:361:HIS:HB2	1.49	0.94
8:O:103:CYS:O	10:Q:35:GLY:HA3	1.67	0.94
8:O:512:LEU:HB2	8:O:551:ARG:HB3	1.46	0.94
8:O:729:GLN:HG3	11:R:55:GLU:HG3	1.50	0.94
10:Q:91:LEU:HG	12:V:184:LEU:HD22	1.45	0.94
4:D:323:GLU:CD	13:G:125:LEU:HD23	1.88	0.94
7:H:46:LEU:HD23	7:H:109:LEU:HB2	1.50	0.94
9:P:103:MET:HA	10:Q:84:THR:HG21	1.49	0.94
2:B:47:PRO:HA	2:B:50:ALA:HB3	1.48	0.94
3:C:15:LEU:HD12	3:C:24:LEU:HD13	1.49	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:218:HIS:HA	3:C:221:LEU:HB2	1.49	0.94
4:D:315:LEU:CD2	13:G:137:TYR:HB3	1.98	0.94
6:F:45:PRO:HD3	6:F:196:GLU:HG3	1.49	0.94
6:F:169:GLU:O	6:F:183:PHE:HA	1.65	0.94
8:O:486:LEU:HD23	8:O:489:LYS:HD2	1.49	0.94
8:O:564:VAL:HG23	11:R:19:LYS:HE2	1.46	0.94
8:O:727:ASP:HB3	11:R:54:ILE:N	1.82	0.94
9:P:15:PHE:HB2	10:Q:18:ILE:HG13	1.43	0.94
1:A:467:GLN:CG	2:B:418:GLY:C	2.34	0.94
2:B:441:LYS:O	6:F:310:ASN:OD1	1.84	0.94
5:E:311:THR:HB	7:H:207:LEU:HD11	1.50	0.94
8:O:38:ARG:HH11	8:O:42:ILE:HD11	1.31	0.94
8:O:494:ILE:HG22	8:O:500:VAL:HG11	1.49	0.94
9:P:7:ILE:CD1	9:P:27:LEU:O	2.15	0.94
9:P:93:PHE:CG	10:Q:16:TYR:OH	2.20	0.94
5:E:323:ILE:CG1	13:G:188:ILE:HG21	1.98	0.94
5:E:327:LEU:HD23	5:E:331:ILE:HD11	1.46	0.94
6:F:267:LEU:CD1	13:G:177:TRP:CD1	2.50	0.94
10:Q:91:LEU:HD23	12:V:184:LEU:HD12	1.48	0.94
2:B:442:LEU:HD22	6:F:309:PHE:HE2	1.31	0.93
3:C:231:SER:HA	3:C:235:LEU:HD12	1.50	0.93
4:D:315:LEU:CG	13:G:137:TYR:HD2	1.74	0.93
6:F:258:ARG:CD	13:G:160:ARG:N	2.30	0.93
8:O:327:THR:HA	8:O:342:SER:HB3	1.47	0.93
8:O:508:GLN:CD	8:O:559:LEU:CD1	2.35	0.93
8:O:676:ARG:HH21	8:O:710:ARG:HB3	1.32	0.93
1:A:95:MET:HB3	1:A:319:LEU:HD11	1.49	0.93
8:O:32:ARG:CD	10:Q:38:ARG:HB3	1.97	0.93
8:O:656:SER:OG	8:O:658:GLN:CG	2.16	0.93
13:G:71:ALA:HB1	13:G:164:LYS:H	1.29	0.93
5:E:158:ASN:HA	5:E:161:PHE:HB2	1.48	0.93
5:E:248:ASN:HB3	6:F:222:ILE:O	1.65	0.93
6:F:258:ARG:CD	13:G:159:GLY:CA	2.39	0.93
3:C:75:GLU:O	3:C:78:PHE:HB3	1.68	0.93
4:D:73:LEU:HD22	4:D:84:ILE:HG21	1.49	0.93
5:E:279:GLN:CB	5:E:298:ASP:CG	2.27	0.93
5:E:279:GLN:HG3	5:E:294:ARG:HD3	1.49	0.93
1:A:132:GLU:HG2	1:A:164:THR:HG21	1.47	0.93
1:A:334:LEU:HD13	1:A:366:ILE:HG12	1.51	0.93
3:C:42:LEU:HB2	3:C:61:VAL:HG11	1.49	0.93
4:D:315:LEU:CD1	13:G:137:TYR:HD2	1.79	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:P:11:LYS:HZ3	10:Q:14:LYS:HZ2	0.96	0.93
9:P:11:LYS:O	10:Q:15:GLU:N	2.02	0.93
10:Q:91:LEU:CG	12:V:184:LEU:CD2	2.47	0.93
5:E:323:ILE:HG12	13:G:188:ILE:CG2	1.97	0.93
6:F:267:LEU:HD13	13:G:177:TRP:CD2	2.04	0.93
8:O:568:TYR:CE1	11:R:22:PHE:CG	2.56	0.93
1:A:339:ARG:NE	2:B:394:LEU:HD11	1.84	0.93
3:C:112:VAL:HG13	3:C:151:LEU:HD11	1.50	0.93
8:O:505:ILE:O	11:R:28:ASN:N	2.00	0.93
1:A:251:TRP:HB3	1:A:292:ALA:HB2	1.51	0.93
3:C:202:LEU:HB2	3:C:230:VAL:HG11	1.49	0.93
5:E:79:GLY:O	5:E:136:TRP:HA	1.68	0.93
9:P:15:PHE:HB2	10:Q:18:ILE:HD11	1.50	0.93
11:R:45:CYS:HB3	11:R:53:CYS:HB2	1.48	0.93
4:D:205:ALA:HB2	4:D:232:CYS:HB2	1.47	0.93
4:D:388:ILE:HG23	4:D:393:PRO:HA	1.51	0.93
13:G:56:ALA:HB1	13:G:64:LEU:HD13	1.51	0.93
4:D:305:ILE:HA	4:D:309:LEU:HD12	1.50	0.92
5:E:285:PHE:CB	12:V:62:VAL:HG13	1.98	0.92
5:E:56:LYS:HB2	5:E:91:ILE:HG12	1.49	0.92
9:P:11:LYS:HE2	10:Q:14:LYS:HZ3	0.76	0.92
2:B:427:TRP:CH2	6:F:293:GLY:HA2	2.05	0.92
2:B:427:TRP:HH2	6:F:293:GLY:CA	1.81	0.92
5:E:246:TRP:CB	6:F:219:GLU:CD	2.37	0.92
8:O:489:LYS:HG2	8:O:492:ASN:HD21	1.31	0.92
8:O:555:TRP:HZ3	11:R:30:VAL:H	0.96	0.92
8:O:566:MET:HA	11:R:18:LYS:HB2	1.49	0.92
8:O:733:ARG:HH21	11:R:96:LEU:CD2	1.79	0.92
12:V:73:GLN:CG	12:V:143:ASP:C	2.38	0.92
1:A:271:ARG:HH21	1:A:274:ARG:HD3	1.34	0.92
2:B:441:LYS:CG	6:F:306:VAL:HG21	1.99	0.92
5:E:326:LYS:HB3	13:G:184:VAL:HG12	0.92	0.92
8:O:505:ILE:O	11:R:27:TRP:CA	2.17	0.92
8:O:548:PHE:CB	11:R:33:TRP:CE3	2.52	0.92
12:V:89:LEU:HD12	12:V:198:LEU:HB3	1.50	0.92
2:B:136:LEU:HD23	2:B:139:LEU:HD12	1.47	0.92
4:D:384:LEU:CD1	4:D:387:LYS:HE2	1.99	0.92
6:F:65:PRO:HB3	6:F:157:MET:HG3	1.50	0.92
8:O:106:ARG:CZ	10:Q:27:PRO:O	2.18	0.92
8:O:580:TYR:HB3	8:O:609:GLU:HB3	1.48	0.92
12:V:95:PRO:HB3	12:V:198:LEU:HD11	1.48	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:G:62:ALA:HB1	13:G:86:PRO:HD3	1.48	0.92
2:B:357:GLN:HA	2:B:360:ILE:HD12	1.51	0.92
1:A:467:GLN:OE1	2:B:422:THR:HG23	1.65	0.92
5:E:250:LEU:O	5:E:324:LYS:HG2	1.70	0.92
5:E:252:SER:CB	6:F:220:HIS:O	2.18	0.92
5:E:285:PHE:CB	12:V:62:VAL:CG1	2.47	0.92
8:O:106:ARG:NH2	10:Q:31:ALA:HB2	1.84	0.92
8:O:113:ILE:HA	8:O:117:LYS:HD2	1.50	0.92
8:O:462:LYS:HB2	8:O:470:THR:HG21	1.51	0.92
8:O:692:LYS:NZ	8:O:743:TYR:HD2	1.63	0.92
9:P:11:LYS:HZ1	10:Q:14:LYS:NZ	1.61	0.92
6:F:122:LEU:HD21	6:F:150:LEU:HD13	1.50	0.92
8:O:188:PHE:HB3	8:O:206:ILE:HD13	1.49	0.92
8:O:512:LEU:HG	8:O:552:LYS:C	1.85	0.92
5:E:242:TRP:C	6:F:229:LYS:NZ	2.22	0.92
1:A:502:VAL:H	3:C:213:ALA:HA	1.31	0.91
8:O:164:LEU:HD11	8:O:210:PRO:HB3	1.50	0.91
8:O:563:GLU:HG3	11:R:27:TRP:CA	1.99	0.91
9:P:13:THR:C	10:Q:16:TYR:C	2.15	0.91
1:A:99:ARG:HH22	1:A:391:ASP:HA	1.34	0.91
2:B:214:LEU:HA	2:B:217:LEU:HD12	1.52	0.91
4:D:92:ILE:HD13	4:D:103:VAL:HG13	1.51	0.91
5:E:75:LEU:HD22	5:E:101:GLU:HG2	1.50	0.91
5:E:246:TRP:CD2	6:F:229:LYS:HA	1.91	0.91
5:E:279:GLN:C	5:E:298:ASP:CG	2.24	0.91
8:O:511:VAL:O	8:O:551:ARG:HB3	1.70	0.91
10:Q:91:LEU:HG	12:V:184:LEU:CD2	2.00	0.91
12:V:146:PRO:HB3	12:V:148:PHE:N	1.83	0.91
13:G:69:LEU:CD2	13:G:96:LEU:HD11	1.98	0.91
3:C:12:VAL:HG22	3:C:24:LEU:HD11	1.49	0.91
4:D:151:ILE:HA	4:D:154:LEU:HD12	1.52	0.91
5:E:244:LYS:HE2	6:F:230:MET:CA	2.00	0.91
8:O:640:LEU:HD23	11:R:20:LYS:HD2	1.51	0.91
2:B:22:GLU:N	8:O:652:LYS:HD3	1.84	0.91
2:B:439:VAL:CB	3:C:243:LYS:HZ2	1.73	0.91
7:H:154:GLN:HB3	7:H:163:LEU:HB2	1.50	0.91
5:E:106:ARG:HB2	5:E:109:ALA:HB2	1.51	0.91
8:O:555:TRP:HZ3	11:R:29:ALA:HB1	1.29	0.91
8:O:688:MET:SD	8:O:731:ILE:HG22	2.10	0.91
9:P:4:PHE:HE2	10:Q:66:LYS:CD	1.71	0.91
9:P:71:ALA:N	10:Q:59:GLU:CG	2.26	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:258:ARG:HD2	13:G:160:ARG:H	1.33	0.91
9:P:27:LEU:CD2	9:P:44:LEU:HB2	2.01	0.91
4:D:319:ILE:HG23	4:D:324:LEU:HB2	1.53	0.91
6:F:274:LYS:N	6:F:277:THR:HG1	1.69	0.91
8:O:110:THR:HG21	10:Q:28:THR:HA	1.52	0.91
9:P:11:LYS:HZ1	10:Q:14:LYS:CG	1.83	0.91
10:Q:88:LEU:CD2	12:V:179:ASP:OD2	2.17	0.91
4:D:389:SER:CB	4:D:394:GLU:OE1	2.18	0.91
5:E:251:SER:HA	5:E:324:LYS:HD3	1.52	0.91
12:V:146:PRO:CB	12:V:148:PHE:N	2.30	0.91
3:C:159:LEU:HA	3:C:162:LEU:HB2	1.52	0.91
8:O:505:ILE:CG2	11:R:27:TRP:CE3	2.54	0.91
8:O:508:GLN:CD	8:O:559:LEU:HD12	1.90	0.90
8:O:564:VAL:HG23	11:R:19:LYS:CE	2.00	0.90
8:O:725:LEU:HG	11:R:46:ARG:CZ	2.02	0.90
9:P:15:PHE:CG	10:Q:16:TYR:HB3	2.05	0.90
5:E:171:ASP:HB3	5:E:174:ARG:HB2	1.49	0.90
6:F:35:VAL:HG22	6:F:171:VAL:HG22	1.53	0.90
8:O:676:ARG:NH2	8:O:710:ARG:CB	2.33	0.90
9:P:14:ILE:HD13	10:Q:17:GLU:OE2	1.70	0.90
2:B:442:LEU:HD22	6:F:309:PHE:CE2	2.04	0.90
5:E:332:ASN:ND2	13:G:179:ASP:C	2.24	0.90
8:O:106:ARG:CZ	10:Q:31:ALA:HB2	1.75	0.90
2:B:25:ASN:O	2:B:28:PRO:CD	2.18	0.90
2:B:192:THR:CG2	8:O:474:HIS:CE1	2.55	0.90
2:B:427:TRP:CD1	5:E:270:SER:CA	2.52	0.90
3:C:12:VAL:HG13	3:C:24:LEU:HD21	1.52	0.90
6:F:267:LEU:HD23	6:F:269:VAL:HG23	1.50	0.90
8:O:32:ARG:CZ	8:O:35:TRP:HZ3	1.84	0.90
8:O:567:ASN:C	11:R:21:ARG:HB3	1.87	0.90
8:O:700:ILE:HD12	8:O:718:ILE:HB	1.51	0.90
11:R:19:LYS:HD3	11:R:25:LYS:HZ3	1.33	0.90
13:G:34:VAL:HG11	13:G:43:PHE:HZ	1.37	0.90
13:G:122:MET:HE2	13:G:131:LEU:HD12	1.52	0.90
3:C:82:GLN:HA	3:C:85:ILE:HB	1.52	0.90
8:O:23:ALA:O	8:O:27:LEU:O	1.89	0.90
12:V:74:VAL:HG23	12:V:140:LEU:H	1.32	0.90
13:G:42:VAL:HA	13:G:67:LEU:HD11	1.50	0.90
2:B:292:ASN:CG	11:R:71:ALA:CB	2.40	0.90
5:E:61:ALA:O	5:E:65:MET:HB3	1.71	0.90
5:E:247:VAL:HA	6:F:228:ILE:HB	0.96	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:285:PHE:CD2	12:V:62:VAL:CG1	2.53	0.90
8:O:379:ARG:HG2	8:O:384:VAL:HG22	1.52	0.90
9:P:13:THR:N	10:Q:15:GLU:CB	2.32	0.90
2:B:79:ASN:HB2	2:B:88:MET:HB2	1.52	0.90
4:D:182:GLN:HA	4:D:185:ILE:HD12	1.54	0.90
1:A:297:ARG:HH12	12:V:142:VAL:HG11	1.35	0.90
3:C:104:CYS:HA	3:C:107:LEU:HD13	1.52	0.90
5:E:282:ARG:HA	5:E:282:ARG:HH11	1.36	0.90
8:O:490:PHE:CA	8:O:543:PHE:CE2	2.55	0.90
2:B:441:LYS:HD2	6:F:303:ASN:OD1	1.70	0.90
4:D:314:LYS:HB3	13:G:137:TYR:CD1	2.07	0.90
5:E:250:LEU:CD2	13:G:185:LEU:CD2	2.46	0.90
3:C:323:ALA:HA	3:C:328:LEU:HB2	1.54	0.90
4:D:88:THR:HG22	4:D:92:ILE:HD11	1.53	0.90
4:D:388:ILE:HB	4:D:393:PRO:HB3	1.52	0.90
5:E:28:ILE:HD11	5:E:56:LYS:HD3	1.53	0.90
5:E:250:LEU:CA	6:F:228:ILE:HD12	2.00	0.90
12:V:74:VAL:HG21	12:V:111:SER:HB3	1.52	0.90
2:B:32:LEU:HD21	8:O:649:THR:HG1	1.20	0.89
8:O:721:CYS:O	11:R:46:ARG:CD	2.20	0.89
10:Q:91:LEU:HD21	12:V:184:LEU:HB3	0.92	0.89
12:V:74:VAL:CG2	12:V:140:LEU:N	2.34	0.89
2:B:368:ARG:HG2	4:D:353:ASP:OD1	1.71	0.89
3:C:320:GLN:HB2	3:C:331:PRO:HD3	1.55	0.89
13:G:62:ALA:HA	13:G:65:GLN:HE21	1.37	0.89
5:E:279:GLN:HG2	5:E:294:ARG:NE	1.73	0.89
8:O:567:ASN:H	11:R:19:LYS:CA	1.85	0.89
8:O:569:LEU:CG	11:R:19:LYS:H	1.85	0.89
8:O:725:LEU:CG	11:R:46:ARG:NH1	2.32	0.89
12:V:146:PRO:HB3	12:V:148:PHE:CB	2.02	0.89
2:B:24:SER:N	8:O:652:LYS:HZ2	1.59	0.89
8:O:32:ARG:NE	8:O:35:TRP:HZ3	1.35	0.89
8:O:503:LEU:C	8:O:504:GLY:N	2.24	0.89
8:O:696:HIS:HB2	8:O:739:ASP:HA	1.53	0.89
1:A:305:CYS:HA	1:A:308:LEU:HD12	1.52	0.89
2:B:146:ARG:HG2	2:B:229:PRO:HG3	1.54	0.89
2:B:297:GLN:HE21	11:R:70:VAL:CG1	1.82	0.89
8:O:490:PHE:CA	8:O:543:PHE:CZ	2.55	0.89
8:O:505:ILE:HD12	8:O:533:LEU:HD23	1.53	0.89
12:V:203:GLN:O	12:V:207:ALA:HA	1.72	0.89
2:B:99:ILE:HG22	2:B:100:ARG:HG3	1.52	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:205:THR:HG23	5:E:302:LYS:HG2	1.52	0.89
8:O:555:TRP:HZ3	11:R:30:VAL:N	1.68	0.89
9:P:97:PRO:HD3	10:Q:52:HIS:CE1	1.85	0.89
5:E:76:GLU:HB3	5:E:103:THR:HB	1.55	0.89
8:O:567:ASN:N	11:R:19:LYS:HA	1.88	0.89
8:O:657:MET:SD	8:O:657:MET:N	2.36	0.89
9:P:11:LYS:NZ	10:Q:14:LYS:CG	2.35	0.89
3:C:233:ILE:HA	3:C:301:SER:HB3	1.53	0.89
8:O:490:PHE:CD1	8:O:494:ILE:CG1	2.56	0.89
2:B:24:SER:H	8:O:652:LYS:HZ1	1.06	0.89
2:B:420:ARG:CG	5:E:263:THR:HG22	1.83	0.89
5:E:33:LYS:HD2	5:E:130:LEU:HB3	1.55	0.89
7:H:80:ARG:O	7:H:84:ARG:N	2.06	0.89
8:O:567:ASN:HB2	11:R:20:LYS:CA	2.01	0.89
9:P:27:LEU:HD21	9:P:44:LEU:CB	2.03	0.89
9:P:30:ILE:CD1	10:Q:5:PHE:HZ	1.86	0.89
4:D:77:PRO:HB2	4:D:80:THR:HB	1.53	0.88
5:E:242:TRP:O	6:F:229:LYS:HD3	1.74	0.88
8:O:544:TYR:CE1	11:R:33:TRP:CD2	2.46	0.88
9:P:70:GLN:CA	10:Q:59:GLU:CG	2.51	0.88
13:G:47:LEU:HD12	13:G:52:VAL:CG2	2.02	0.88
1:A:411:ILE:HG23	1:A:448:LEU:HD13	1.52	0.88
5:E:280:LEU:HD11	5:E:300:LEU:HB2	1.54	0.88
6:F:167:VAL:O	6:F:185:GLU:HA	1.71	0.88
8:O:81:GLU:HA	8:O:84:LEU:HB2	1.53	0.88
8:O:544:TYR:HE1	11:R:33:TRP:CD2	1.87	0.88
2:B:340:ASP:HB3	2:B:343:ILE:HB	1.53	0.88
5:E:285:PHE:CD1	12:V:62:VAL:CG2	2.57	0.88
5:E:326:LYS:HB3	13:G:184:VAL:CB	2.03	0.88
8:O:200:LEU:HA	8:O:203:TYR:HB3	1.53	0.88
8:O:567:ASN:CB	11:R:23:GLU:HG2	2.02	0.88
1:A:467:GLN:HE22	2:B:422:THR:H	1.21	0.88
5:E:250:LEU:HD22	5:E:323:ILE:HG22	1.51	0.88
6:F:217:VAL:HG21	13:G:192:VAL:CG1	1.95	0.88
8:O:81:GLU:HG2	8:O:84:LEU:HD22	1.54	0.88
2:B:6:ASP:OD2	2:B:77:LYS:NZ	2.04	0.88
5:E:80:LEU:HD23	5:E:117:MET:HB2	1.56	0.88
6:F:267:LEU:HB3	13:G:177:TRP:HD1	1.36	0.88
9:P:15:PHE:CZ	10:Q:58:VAL:HG21	2.08	0.88
1:A:104:ALA:HB1	1:A:111:ARG:HA	1.55	0.88
5:E:285:PHE:CD2	12:V:62:VAL:HG21	2.08	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:32:ARG:HH11	10:Q:38:ARG:HA	1.09	0.88
6:F:261:TYR:CA	13:G:170:ILE:HD12	2.02	0.88
8:O:563:GLU:CA	11:R:25:LYS:HE2	2.04	0.88
2:B:11:ASP:OD1	2:B:67:TRP:HZ2	1.32	0.88
8:O:32:ARG:O	8:O:35:TRP:N	2.06	0.88
9:P:4:PHE:CE2	10:Q:66:LYS:HG3	2.05	0.88
9:P:30:ILE:HA	10:Q:5:PHE:CE2	2.08	0.88
2:B:10:CYS:HA	2:B:70:LYS:HD3	1.54	0.88
4:D:60:VAL:HG13	4:D:63:ARG:HD2	1.54	0.88
8:O:362:GLN:HA	8:O:365:MET:HB2	1.54	0.88
8:O:386:LYS:HA	8:O:389:GLU:HB2	1.56	0.88
8:O:391:LEU:O	8:O:395:CYS:N	2.07	0.88
9:P:15:PHE:CD2	10:Q:18:ILE:CD1	2.53	0.88
1:A:297:ARG:NH1	12:V:142:VAL:CG1	2.36	0.88
1:A:352:PHE:HA	1:A:355:PHE:HD2	1.39	0.88
3:C:316:THR:HG21	3:C:357:MET:HB3	1.54	0.88
4:D:315:LEU:HD11	13:G:137:TYR:HD2	1.37	0.88
5:E:312:ILE:HA	5:E:315:ILE:HD12	1.57	0.88
8:O:689:LYS:HA	8:O:743:TYR:CE1	2.09	0.88
9:P:11:LYS:CE	10:Q:14:LYS:HG3	2.03	0.88
9:P:70:GLN:O	10:Q:59:GLU:CG	2.07	0.88
1:A:78:GLU:HA	1:A:107:CYS:HA	1.55	0.87
3:C:322:MET:HA	3:C:325:ARG:HB2	1.55	0.87
4:D:342:MET:HA	4:D:345:GLU:HB2	1.55	0.87
8:O:520:THR:O	8:O:556:LEU:HD21	1.74	0.87
8:O:571:LYS:HD3	8:O:642:MET:HA	1.55	0.87
8:O:624:ASN:HB2	8:O:639:SER:HB2	1.54	0.87
9:P:99:LEU:O	9:P:100:PRO:O	1.89	0.87
13:G:101:ILE:HG22	13:G:116:LEU:HG	1.54	0.87
3:C:390:LEU:HD22	6:F:302:MET:HA	1.56	0.87
4:D:388:ILE:CG1	4:D:396:THR:HG21	2.04	0.87
5:E:148:SER:HB2	5:E:210:LYS:HG3	1.55	0.87
7:H:52:ASN:HA	7:H:55:TYR:HD2	1.38	0.87
7:H:198:ALA:HA	13:G:191:GLN:HE21	1.39	0.87
8:O:42:ILE:HD12	8:O:108:LEU:HD13	1.56	0.87
8:O:505:ILE:HD12	8:O:533:LEU:HD21	1.55	0.87
8:O:676:ARG:NH2	8:O:710:ARG:HB3	1.89	0.87
13:G:165:LYS:HG3	13:G:167:ILE:HD13	1.55	0.87
1:A:225:ARG:HA	1:A:237:MET:HG3	1.56	0.87
1:A:417:TYR:CD1	2:B:402:ILE:HB	2.09	0.87
2:B:18:LEU:HD22	2:B:28:PRO:CA	2.05	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:94:ARG:HD2	3:C:131:MET:HG3	1.57	0.87
9:P:15:PHE:HD2	10:Q:18:ILE:HD11	1.15	0.87
10:Q:88:LEU:HD22	12:V:179:ASP:OD2	1.74	0.87
2:B:18:LEU:HD13	8:O:648:ARG:CZ	2.03	0.87
2:B:427:TRP:HE1	5:E:273:LEU:HD11	1.27	0.87
4:D:238:ALA:HA	4:D:242:ARG:HD3	1.57	0.87
7:H:43:LEU:HA	7:H:46:LEU:HD12	1.54	0.87
13:G:117:LEU:CD2	13:G:128:LEU:HD12	2.03	0.87
2:B:89:MET:HG2	2:B:93:LYS:HE3	1.55	0.87
3:C:222:GLU:HG2	3:C:225:LYS:HD2	1.56	0.87
13:G:92:GLN:HA	13:G:95:LYS:HD2	1.56	0.87
1:A:245:SER:HA	1:A:248:LEU:HB2	1.53	0.87
2:B:155:LEU:HD12	2:B:158:LEU:HD12	1.54	0.87
8:O:694:LEU:HD21	8:O:699:LEU:CD2	2.04	0.87
3:C:46:LEU:HB3	3:C:58:VAL:HG22	1.56	0.87
9:P:4:PHE:CZ	10:Q:66:LYS:CG	2.53	0.87
9:P:99:LEU:HD12	9:P:103:MET:HB3	1.57	0.87
1:A:128:VAL:HA	1:A:131:TYR:HB3	1.57	0.87
2:B:298:GLU:HG2	11:R:35:TRP:CE3	2.09	0.87
4:D:388:ILE:CG1	4:D:396:THR:OG1	2.23	0.87
5:E:96:PHE:H	5:E:137:TYR:HB2	1.36	0.87
5:E:173:THR:HA	5:E:176:ILE:HD12	1.56	0.87
5:E:282:ARG:HH11	5:E:282:ARG:CA	1.87	0.87
6:F:43:LEU:HD22	6:F:84:MET:HB3	1.57	0.87
6:F:171:VAL:HB	6:F:182:LEU:HD12	1.56	0.87
8:O:503:LEU:HD22	8:O:532:GLU:CG	2.03	0.87
9:P:4:PHE:HE2	10:Q:66:LYS:HG3	1.34	0.87
9:P:4:PHE:CE1	10:Q:62:ASN:OD1	2.26	0.87
9:P:12:THR:HG23	10:Q:15:GLU:OE1	1.75	0.87
1:A:389:LEU:HD12	1:A:395:ALA:HA	1.57	0.87
5:E:148:SER:O	5:E:152:VAL:N	2.08	0.87
8:O:552:LYS:HA	11:R:33:TRP:HA	0.88	0.87
8:O:725:LEU:HG	11:R:46:ARG:NH2	1.88	0.87
13:G:167:ILE:H	13:G:167:ILE:HD12	1.40	0.87
1:A:78:GLU:HB2	1:A:108:PRO:HD2	1.56	0.86
2:B:439:VAL:HB	3:C:243:LYS:HZ3	1.25	0.86
13:G:34:VAL:HG11	13:G:43:PHE:CZ	2.09	0.86
2:B:18:LEU:HD22	8:O:648:ARG:CD	2.05	0.86
2:B:46:ASP:HB3	2:B:48:LYS:HE2	1.56	0.86
2:B:297:GLN:OE1	11:R:70:VAL:CG2	2.17	0.86
3:C:332:GLN:HA	3:C:335:GLU:HG2	1.56	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:242:TRP:HH2	6:F:219:GLU:N	1.73	0.86
5:E:326:LYS:CD	13:G:184:VAL:HG11	1.92	0.86
6:F:261:TYR:CB	13:G:170:ILE:CD1	2.52	0.86
13:G:110:CYS:HB3	13:G:151:LEU:HB3	1.57	0.86
1:A:467:GLN:HG2	2:B:418:GLY:C	1.92	0.86
2:B:424:LEU:CD1	6:F:289:MET:SD	2.61	0.86
8:O:511:VAL:O	8:O:551:ARG:HD2	1.76	0.86
12:V:178:LEU:HD13	12:V:180:ILE:HD11	1.56	0.86
1:A:282:LEU:HD23	1:A:285:LEU:HD12	1.55	0.86
2:B:441:LYS:CE	6:F:303:ASN:OD1	2.23	0.86
4:D:81:ALA:HA	4:D:84:ILE:HD12	1.54	0.86
6:F:99:ILE:HA	6:F:141:GLN:HE22	1.40	0.86
8:O:25:VAL:O	8:O:27:LEU:HD22	1.74	0.86
8:O:379:ARG:HH12	8:O:386:LYS:HB3	1.39	0.86
8:O:537:VAL:HG23	8:O:553:LEU:HB3	1.57	0.86
8:O:610:LEU:HD12	8:O:613:THR:HB	1.57	0.86
11:R:77:HIS:HB3	11:R:99:ARG:HD2	1.57	0.86
13:G:18:LEU:CB	13:G:30:LEU:HD13	2.05	0.86
13:G:69:LEU:HD12	13:G:73:GLY:CA	2.04	0.86
2:B:317:ALA:HA	2:B:320:ASN:HB2	1.56	0.86
4:D:388:ILE:HG12	4:D:396:THR:OG1	1.75	0.86
5:E:248:ASN:N	6:F:225:HIS:CG	2.22	0.86
6:F:267:LEU:HB3	13:G:177:TRP:CD1	2.11	0.86
9:P:69:PRO:HA	10:Q:62:ASN:HD21	1.13	0.86
2:B:157:LYS:HA	2:B:160:LEU:HG	1.57	0.86
8:O:511:VAL:HG12	8:O:551:ARG:NE	1.89	0.86
9:P:99:LEU:CB	9:P:103:MET:CG	1.88	0.86
1:A:297:ARG:HH12	12:V:142:VAL:CG1	1.88	0.86
2:B:29:ASN:O	2:B:31:ASP:N	2.09	0.86
5:E:285:PHE:CD1	12:V:62:VAL:HG21	2.11	0.86
8:O:65:LEU:HD21	8:O:143:ALA:HA	1.56	0.86
8:O:575:ALA:H	11:R:19:LYS:CE	1.88	0.86
12:V:73:GLN:HB2	12:V:141:ASN:O	1.74	0.86
1:A:416:PRO:HB2	2:B:402:ILE:HD12	1.57	0.86
3:C:13:ARG:HG3	3:C:48:ALA:HB1	1.57	0.86
5:E:251:SER:O	6:F:223:ALA:N	2.09	0.86
8:O:38:ARG:HG3	8:O:104:LEU:HD13	1.57	0.86
8:O:490:PHE:HA	8:O:543:PHE:HZ	1.30	0.86
8:O:559:LEU:HB2	11:R:30:VAL:HG21	1.57	0.86
13:G:122:MET:CE	13:G:131:LEU:HD12	2.06	0.86
1:A:339:ARG:CZ	2:B:394:LEU:HD11	2.05	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:246:TRP:CA	6:F:219:GLU:CD	2.44	0.86
5:E:326:LYS:HD2	13:G:184:VAL:HG13	0.90	0.86
10:Q:88:LEU:HD21	12:V:179:ASP:CB	2.00	0.86
2:B:192:THR:HG21	8:O:474:HIS:NE2	1.91	0.86
4:D:89:LEU:HD23	4:D:92:ILE:HD12	1.58	0.86
4:D:270:ASP:HB2	4:D:314:LYS:HE3	1.56	0.86
8:O:565:LYS:C	11:R:23:GLU:OE2	2.14	0.86
1:A:104:ALA:HB2	1:A:114:ALA:HB3	1.56	0.85
3:C:339:LEU:O	3:C:343:GLU:CB	2.24	0.85
8:O:688:MET:HE2	8:O:725:LEU:HD13	0.88	0.85
2:B:21:SER:N	8:O:652:LYS:CD	2.35	0.85
5:E:332:ASN:HD22	13:G:179:ASP:C	1.80	0.85
8:O:676:ARG:CZ	8:O:710:ARG:NE	2.39	0.85
10:Q:88:LEU:CD1	12:V:179:ASP:OD2	2.23	0.85
1:A:387:ASN:HA	1:A:390:LEU:HB2	1.59	0.85
1:A:467:GLN:HE22	2:B:422:THR:N	1.73	0.85
2:B:297:GLN:HG2	11:R:67:GLU:HG3	1.56	0.85
4:D:388:ILE:CA	4:D:396:THR:OG1	2.24	0.85
8:O:385:CYS:HA	8:O:427:ASP:HB3	1.58	0.85
8:O:503:LEU:CD2	8:O:532:GLU:HG2	2.02	0.85
8:O:692:LYS:CD	8:O:743:TYR:CG	2.56	0.85
9:P:70:GLN:C	10:Q:59:GLU:HG3	1.96	0.85
3:C:198:PHE:HB2	3:C:234:LEU:HD22	1.58	0.85
5:E:144:GLY:HA2	5:E:171:ASP:HA	1.58	0.85
5:E:247:VAL:CA	6:F:228:ILE:CB	2.11	0.85
8:O:505:ILE:O	11:R:27:TRP:N	2.09	0.85
10:Q:77:ILE:HG21	12:V:155:VAL:HG23	1.57	0.85
4:D:343:ILE:HG23	4:D:350:GLY:H	1.41	0.85
4:D:388:ILE:HG22	4:D:393:PRO:C	1.95	0.85
11:R:39:VAL:H	11:R:49:ILE:HG12	1.41	0.85
13:G:102:VAL:HG21	13:G:160:ARG:NH1	1.90	0.85
2:B:428:THR:O	2:B:431:LEU:HB2	1.76	0.85
4:D:27:ARG:HA	4:D:30:LEU:HB3	1.57	0.85
5:E:59:ALA:HB3	6:F:46:LEU:HB2	1.57	0.85
10:Q:60:TYR:CD1	12:V:158:LEU:HB2	2.09	0.85
13:G:12:LEU:O	13:G:16:ILE:HG12	1.77	0.85
1:A:339:ARG:HA	1:A:342:LEU:HD12	1.58	0.85
1:A:382:ASP:HA	1:A:385:LYS:HB2	1.58	0.85
2:B:192:THR:HG21	8:O:474:HIS:CE1	2.12	0.85
3:C:301:SER:HA	3:C:304:LYS:HD2	1.58	0.85
5:E:183:LEU:HD22	5:E:226:VAL:HG11	1.58	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:569:LEU:HB2	11:R:18:LYS:HB3	1.56	0.85
8:O:614:ILE:HG22	8:O:628:GLU:HG2	1.58	0.85
9:P:80:ARG:HG3	9:P:83:ASP:HA	1.58	0.85
2:B:20:TYR:N	8:O:652:LYS:HG3	1.91	0.85
2:B:21:SER:CA	8:O:652:LYS:HE2	2.07	0.85
3:C:341:MET:HA	3:C:346:GLU:HB2	1.59	0.85
5:E:77:VAL:HG21	5:E:97:ALA:HB1	1.57	0.85
6:F:310:ASN:HA	6:F:314:ASP:HB3	1.59	0.85
9:P:3:VAL:HB	9:P:67:ALA:HB3	1.59	0.85
5:E:306:ASP:HA	5:E:309:LYS:HE3	1.58	0.85
8:O:508:GLN:CG	8:O:559:LEU:CD1	2.53	0.85
8:O:548:PHE:CB	11:R:33:TRP:CZ3	2.60	0.85
8:O:567:ASN:CA	11:R:23:GLU:HB3	2.07	0.85
8:O:676:ARG:NH2	8:O:710:ARG:NE	2.25	0.85
2:B:424:LEU:HD13	6:F:289:MET:CE	2.02	0.85
3:C:23:GLN:HG3	3:C:27:LEU:HG	1.58	0.85
6:F:39:VAL:HB	6:F:76:GLN:HB2	1.59	0.85
1:A:391:ASP:HB3	1:A:394:LEU:HB3	1.58	0.84
4:D:373:GLN:HE21	13:G:155:ASP:HB3	1.36	0.84
5:E:205:THR:CG2	5:E:302:LYS:HG2	2.06	0.84
8:O:232:CYS:HA	8:O:235:TYR:HB3	1.58	0.84
8:O:319:ILE:HD13	8:O:368:LEU:HA	1.59	0.84
8:O:729:GLN:CG	11:R:55:GLU:HG3	2.06	0.84
13:G:101:ILE:HG22	13:G:116:LEU:CD1	2.07	0.84
1:A:411:ILE:HG12	1:A:448:LEU:HD22	1.59	0.84
1:A:421:ASP:HA	1:A:459:ILE:HG23	1.57	0.84
2:B:194:LEU:HA	2:B:197:ILE:HD12	1.59	0.84
3:C:38:ASN:HA	3:C:41:HIS:HB2	1.59	0.84
4:D:388:ILE:CB	4:D:393:PRO:CB	2.53	0.84
11:R:91:ARG:HG2	11:R:93:VAL:HG22	1.59	0.84
3:C:77:LEU:HA	3:C:80:GLN:HB2	1.58	0.84
8:O:333:GLU:HG2	8:O:338:LEU:HD12	1.59	0.84
8:O:490:PHE:CB	8:O:543:PHE:CE2	2.60	0.84
9:P:15:PHE:CE2	10:Q:58:VAL:CG2	2.60	0.84
4:D:22:LEU:HD12	4:D:25:LYS:HD2	1.58	0.84
5:E:77:VAL:HG12	5:E:100:VAL:HG22	1.58	0.84
6:F:258:ARG:HD2	13:G:159:GLY:C	1.97	0.84
7:H:153:TRP:HA	7:H:165:ARG:HG2	1.57	0.84
8:O:508:GLN:HB3	8:O:559:LEU:HG	1.59	0.84
8:O:681:GLN:NE2	8:O:728:LYS:NZ	2.26	0.84
8:O:684:ILE:HG22	8:O:725:LEU:CD1	2.07	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:297:GLN:HE21	11:R:70:VAL:HG11	1.41	0.84
2:B:367:THR:HA	2:B:411:LEU:HB2	1.59	0.84
4:D:260:ALA:O	4:D:263:ILE:HB	1.75	0.84
4:D:403:GLN:HA	4:D:406:GLN:HB2	1.57	0.84
8:O:719:LYS:O	8:O:723:GLU:HG2	1.78	0.84
2:B:27:GLU:OE2	2:B:64:LYS:HG2	1.76	0.84
8:O:693:VAL:C	8:O:699:LEU:CD2	2.45	0.84
2:B:27:GLU:CD	2:B:64:LYS:CG	2.46	0.84
3:C:278:LEU:HD12	3:C:281:LYS:HD3	1.57	0.84
5:E:246:TRP:HA	6:F:219:GLU:CD	1.98	0.84
8:O:568:TYR:CZ	11:R:22:PHE:CD1	2.66	0.84
1:A:467:GLN:OE1	2:B:422:THR:HG21	1.77	0.84
2:B:258:PHE:HB3	2:B:280:LEU:HD22	1.60	0.84
5:E:242:TRP:HZ2	6:F:219:GLU:HG3	1.02	0.84
8:O:24:VAL:HA	8:O:27:LEU:O	1.78	0.84
9:P:8:ARG:HH22	10:Q:14:LYS:HB3	1.42	0.84
2:B:192:THR:HG21	8:O:459:ASN:ND2	1.93	0.84
2:B:439:VAL:HB	3:C:243:LYS:HZ2	1.07	0.84
4:D:361:PHE:HB3	4:D:364:ARG:HH12	1.43	0.84
5:E:55:CYS:HB3	5:E:226:VAL:HG22	1.58	0.84
5:E:242:TRP:O	6:F:229:LYS:CD	2.26	0.84
8:O:520:THR:O	8:O:556:LEU:HD11	1.77	0.84
8:O:656:SER:O	8:O:658:GLN:NE2	2.11	0.84
5:E:80:LEU:HD11	5:E:133:ALA:HB1	1.59	0.84
5:E:246:TRP:CE3	6:F:228:ILE:HG22	2.13	0.84
5:E:279:GLN:HE21	5:E:295:LYS:HE2	0.67	0.84
8:O:555:TRP:CZ3	11:R:29:ALA:CB	2.61	0.84
1:A:339:ARG:HG2	1:A:343:GLN:HE22	1.43	0.83
4:D:314:LYS:CD	13:G:137:TYR:HE1	1.90	0.83
4:D:389:SER:HB2	4:D:394:GLU:CD	1.98	0.83
6:F:202:HIS:O	6:F:206:MET:N	2.11	0.83
7:H:20:CYS:HB3	7:H:40:LEU:HG	1.60	0.83
8:O:563:GLU:CA	11:R:25:LYS:CE	2.55	0.83
8:O:676:ARG:HE	8:O:710:ARG:HE	0.84	0.83
12:V:113:ARG:HG2	12:V:139:SER:HB3	1.59	0.83
12:V:163:LEU:HD23	12:V:188:LEU:HA	1.60	0.83
2:B:22:GLU:C	8:O:647:LYS:HE3	1.97	0.83
2:B:58:LEU:HD22	2:B:91:ARG:HH12	1.43	0.83
3:C:233:ILE:HG21	3:C:297:GLN:HB3	1.57	0.83
5:E:279:GLN:HB3	5:E:298:ASP:OD1	1.77	0.83
5:E:332:ASN:HB3	13:G:176:GLU:C	1.97	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:20:THR:HG21	8:O:38:ARG:HG2	1.61	0.83
8:O:656:SER:O	8:O:658:GLN:CG	2.25	0.83
1:A:84:LEU:HD13	1:A:100:LEU:HD23	1.61	0.83
2:B:260:GLU:CD	11:R:66:GLU:CD	2.35	0.83
3:C:317:LEU:HD11	3:C:325:ARG:HH12	1.43	0.83
4:D:12:LEU:HD22	4:D:25:LYS:HB3	1.57	0.83
6:F:257:LEU:O	6:F:261:TYR:HB2	1.77	0.83
6:F:269:VAL:HG12	6:F:270:LEU:HD22	1.58	0.83
8:O:564:VAL:N	11:R:25:LYS:CE	2.40	0.83
8:O:676:ARG:HD2	8:O:710:ARG:NH2	1.82	0.83
13:G:172:LYS:HA	13:G:172:LYS:HE3	1.57	0.83
13:G:210:GLU:O	13:G:213:VAL:HG22	1.78	0.83
2:B:260:GLU:OE2	11:R:66:GLU:HG2	1.73	0.83
5:E:60:LEU:HA	5:E:63:LEU:HD12	1.59	0.83
5:E:279:GLN:HG2	5:E:294:ARG:CD	1.96	0.83
8:O:676:ARG:NH2	8:O:710:ARG:CG	2.40	0.83
8:O:700:ILE:HG21	8:O:718:ILE:HD12	1.60	0.83
9:P:70:GLN:HA	10:Q:59:GLU:HG3	1.60	0.83
2:B:14:GLU:HB3	2:B:18:LEU:HD11	0.84	0.83
3:C:70:SER:HB3	3:C:114:ARG:HD2	1.59	0.83
3:C:214:MET:HA	3:C:248:ILE:HG21	1.59	0.83
5:E:244:LYS:NZ	6:F:230:MET:HA	1.91	0.83
8:O:483:SER:O	8:O:507:PHE:HZ	1.60	0.83
8:O:544:TYR:O	8:O:548:PHE:N	2.10	0.83
8:O:568:TYR:HE1	11:R:22:PHE:CG	1.94	0.83
8:O:689:LYS:HG3	8:O:743:TYR:OH	1.78	0.83
8:O:700:ILE:HD12	8:O:718:ILE:CB	2.08	0.83
10:Q:80:PHE:O	12:V:161:ARG:NE	2.12	0.83
5:E:245:TYR:CG	6:F:222:ILE:HD11	2.12	0.83
2:B:25:ASN:HD22	8:O:647:LYS:HD2	1.00	0.83
4:D:103:VAL:HA	4:D:106:ILE:HD12	1.58	0.83
5:E:249:THR:HB	6:F:225:HIS:CE1	2.12	0.83
8:O:729:GLN:HG3	11:R:55:GLU:CG	2.09	0.83
12:V:181:VAL:H	12:V:184:LEU:HD12	1.44	0.83
2:B:314:LEU:HD22	2:B:326:PHE:HA	1.61	0.83
3:C:94:ARG:HB3	3:C:97:THR:HG22	1.58	0.83
6:F:151:PHE:HB3	6:F:168:PHE:HB2	1.59	0.83
8:O:117:LYS:HD3	8:O:136:LEU:HD13	1.59	0.83
8:O:503:LEU:O	8:O:504:GLY:C	2.17	0.83
8:O:726:ILE:CG2	11:R:44:ILE:O	2.24	0.83
1:A:463:ARG:HH21	1:A:466:ASP:H	1.27	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:366:ALA:HB3	4:D:368:PRO:HD2	1.61	0.83
8:O:484:ALA:CA	8:O:507:PHE:CE2	2.44	0.83
9:P:17:ASP:OD2	10:Q:65:LEU:HD23	1.76	0.83
9:P:93:PHE:CD1	10:Q:55:GLU:CB	2.60	0.83
4:D:146:GLU:HA	4:D:183:LEU:HD11	1.60	0.83
5:E:247:VAL:H	6:F:229:LYS:HB3	1.42	0.83
8:O:724:VAL:O	11:R:54:ILE:HD13	1.78	0.83
13:G:98:HIS:HA	13:G:101:ILE:HG12	1.61	0.83
13:G:179:ASP:HA	13:G:182:GLU:HG2	1.60	0.83
1:A:297:ARG:HH12	12:V:142:VAL:CB	1.92	0.82
7:H:114:ARG:O	7:H:118:PHE:HB2	1.79	0.82
9:P:15:PHE:CG	10:Q:18:ILE:HD11	2.13	0.82
8:O:1:MET:HE1	12:V:181:VAL:HA	1.58	0.82
8:O:569:LEU:HA	11:R:20:LYS:HB3	1.61	0.82
9:P:6:MET:SD	10:Q:16:TYR:CE2	2.72	0.82
2:B:112:ILE:HA	2:B:115:ILE:HD12	1.61	0.82
5:E:82:LEU:H	5:E:94:ASP:HB3	1.44	0.82
13:G:136:VAL:HG12	13:G:141:ILE:HB	1.59	0.82
2:B:399:HIS:HB3	2:B:412:ASP:HB3	1.60	0.82
3:C:12:VAL:HB	3:C:48:ALA:HB2	1.58	0.82
5:E:248:ASN:N	6:F:225:HIS:CD2	2.47	0.82
5:E:308:CYS:HA	7:H:207:LEU:HD22	1.58	0.82
6:F:254:HIS:CG	13:G:162:ILE:CG1	2.62	0.82
7:H:133:PHE:HE2	7:H:139:LEU:HD12	1.43	0.82
8:O:490:PHE:CB	8:O:543:PHE:HE2	1.93	0.82
10:Q:91:LEU:CD2	12:V:180:ILE:HB	2.10	0.82
10:Q:91:LEU:HD22	12:V:184:LEU:HB3	1.61	0.82
1:A:502:VAL:HG12	3:C:215:ALA:HB3	1.61	0.82
2:B:297:GLN:CG	11:R:70:VAL:HG11	2.09	0.82
3:C:122:GLY:HA2	3:C:125:LYS:HG2	1.60	0.82
3:C:306:ASN:HB3	3:C:326:VAL:HA	1.62	0.82
4:D:384:LEU:HD12	4:D:387:LYS:CE	1.94	0.82
8:O:392:ALA:O	8:O:396:ASP:N	2.11	0.82
8:O:688:MET:CE	8:O:725:LEU:CD1	2.49	0.82
9:P:30:ILE:N	10:Q:5:PHE:CE2	2.47	0.82
12:V:73:GLN:CG	12:V:143:ASP:O	2.27	0.82
12:V:130:VAL:HG11	12:V:136:PHE:HB2	1.62	0.82
1:A:467:GLN:NE2	2:B:422:THR:H	1.76	0.82
3:C:27:LEU:HB3	3:C:30:LYS:HG2	1.61	0.82
8:O:612:LYS:CG	8:O:657:MET:HG2	2.09	0.82
13:G:14:GLN:O	13:G:18:LEU:HG	1.80	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:15:LEU:HB2	3:C:24:LEU:HD22	1.59	0.82
5:E:285:PHE:CE1	12:V:62:VAL:CG2	2.62	0.82
8:O:420:THR:HA	8:O:423:LYS:HE2	1.61	0.82
8:O:508:GLN:CD	8:O:559:LEU:O	2.18	0.82
9:P:30:ILE:HD13	10:Q:5:PHE:HE2	1.35	0.82
12:V:113:ARG:HG2	12:V:139:SER:CB	2.08	0.82
2:B:18:LEU:CD2	8:O:648:ARG:HD2	2.10	0.82
2:B:296:SER:C	11:R:67:GLU:HG2	1.90	0.82
3:C:306:ASN:HB2	3:C:326:VAL:HG13	1.60	0.82
4:D:315:LEU:CD2	13:G:134:GLU:HA	2.09	0.82
7:H:62:PRO:HA	7:H:65:LYS:HD2	1.62	0.82
8:O:83:VAL:HA	8:O:86:MET:HB2	1.61	0.82
4:D:263:ILE:HA	4:D:266:LYS:HE2	1.61	0.82
4:D:315:LEU:HG	13:G:137:TYR:CE2	2.15	0.82
6:F:242:VAL:HG22	6:F:256:ILE:HD12	1.58	0.82
8:O:537:VAL:HA	8:O:553:LEU:HG	1.59	0.82
8:O:617:LEU:HB3	8:O:623:ILE:HB	1.60	0.82
2:B:297:GLN:N	11:R:67:GLU:CG	2.42	0.82
3:C:23:GLN:HA	3:C:26:GLU:HG2	1.62	0.82
4:D:192:ALA:HA	4:D:195:LEU:HD12	1.62	0.82
6:F:258:ARG:CD	13:G:159:GLY:C	2.48	0.82
7:H:87:PRO:HD3	7:H:135:ALA:HB1	1.62	0.82
2:B:18:LEU:HD22	8:O:648:ARG:NH1	1.93	0.81
4:D:210:GLU:HA	4:D:213:TYR:HD2	1.45	0.81
4:D:314:LYS:CB	13:G:137:TYR:CZ	2.57	0.81
4:D:388:ILE:HG21	4:D:396:THR:CB	1.98	0.81
5:E:251:SER:O	5:E:253:SER:CB	2.28	0.81
5:E:324:LYS:HG2	6:F:221:LEU:HB3	1.60	0.81
8:O:204:GLN:HA	8:O:208:GLU:HB3	1.60	0.81
8:O:278:LEU:HD22	8:O:301:LEU:HD11	1.62	0.81
13:G:132:ILE:CD1	13:G:145:LEU:HD11	2.10	0.81
2:B:27:GLU:CG	2:B:64:LYS:HG2	2.09	0.81
2:B:260:GLU:HA	2:B:263:LYS:HD3	1.61	0.81
4:D:85:TYR:HB3	4:D:110:LEU:HB2	1.62	0.81
12:V:140:LEU:HD21	12:V:147:ILE:N	1.95	0.81
13:G:108:MET:HB3	13:G:111:ILE:CD1	2.10	0.81
4:D:169:ASN:ND2	11:R:75:CYS:SG	2.53	0.81
5:E:262:THR:HA	5:E:265:GLN:HB2	1.61	0.81
5:E:332:ASN:HD22	13:G:179:ASP:CB	1.90	0.81
6:F:235:VAL:HG22	6:F:238:ILE:HD12	1.61	0.81
8:O:12:GLU:HG2	8:O:16:LYS:HE3	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:400:LYS:HG3	8:O:403:ALA:HB2	1.61	0.81
8:O:556:LEU:HB3	11:R:30:VAL:HG11	1.63	0.81
8:O:722:ILE:HG21	8:O:741:TYR:CE2	2.15	0.81
8:O:725:LEU:HG	11:R:46:ARG:NH1	1.94	0.81
9:P:70:GLN:CA	10:Q:59:GLU:HG3	2.10	0.81
9:P:70:GLN:HE21	10:Q:63:TYR:HE1	1.29	0.81
10:Q:73:ASP:OD1	12:V:154:PRO:CA	2.26	0.81
11:R:50:MET:HE2	11:R:70:VAL:HB	1.61	0.81
12:V:73:GLN:HG3	12:V:144:GLY:HA2	1.58	0.81
12:V:76:PHE:HB3	12:V:101:LEU:HD11	1.59	0.81
13:G:135:ALA:O	13:G:138:THR:HG22	1.80	0.81
1:A:422:MET:H	1:A:459:ILE:HA	1.45	0.81
2:B:330:LEU:HD23	2:B:333:ASN:HD22	1.45	0.81
7:H:99:SER:HA	7:H:104:PRO:HD3	1.59	0.81
7:H:194:GLU:HG3	13:G:188:ILE:HG23	1.63	0.81
9:P:4:PHE:CG	10:Q:62:ASN:OD1	2.32	0.81
2:B:330:LEU:HD13	2:B:347:ILE:HD11	1.61	0.81
4:D:315:LEU:CD2	13:G:137:TYR:CB	2.56	0.81
5:E:245:TYR:CD2	6:F:222:ILE:CD1	2.53	0.81
5:E:299:LYS:HG2	5:E:302:LYS:HD2	1.61	0.81
7:H:194:GLU:O	13:G:191:GLN:HG3	1.80	0.81
8:O:300:LEU:O	8:O:304:VAL:N	2.13	0.81
11:R:88:LEU:HD12	11:R:92:GLN:HA	1.61	0.81
12:V:203:GLN:O	12:V:207:ALA:CA	2.27	0.81
1:A:255:LEU:HD11	1:A:289:ALA:HA	1.61	0.81
2:B:333:ASN:HB3	2:B:337:ILE:HB	1.62	0.81
4:D:208:TYR:HB2	4:D:229:ALA:HB2	1.63	0.81
4:D:320:THR:HA	4:D:358:ILE:HA	1.62	0.81
8:O:65:LEU:HD22	8:O:142:LEU:HG	1.61	0.81
1:A:95:MET:HA	1:A:98:GLU:HB2	1.60	0.81
1:A:416:PRO:HB3	2:B:393:ILE:HD12	1.60	0.81
2:B:368:ARG:CG	4:D:353:ASP:CG	2.48	0.81
2:B:427:TRP:HA	5:E:270:SER:OG	1.80	0.81
5:E:176:ILE:HA	6:F:194:GLU:HG2	1.63	0.81
5:E:252:SER:CB	5:E:320:SER:HB2	2.08	0.81
9:P:28:LYS:O	9:P:30:ILE:HD12	1.52	0.81
9:P:93:PHE:CB	10:Q:16:TYR:OH	2.29	0.81
1:A:273:GLU:HG3	1:A:281:ILE:HD13	1.62	0.81
2:B:195:LEU:H	2:B:228:ILE:HD11	1.45	0.81
5:E:98:LEU:HB3	5:E:100:VAL:HG13	1.62	0.81
5:E:244:LYS:HA	6:F:229:LYS:HG2	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:392:ALA:HB2	8:O:431:PHE:HE1	1.44	0.81
9:P:15:PHE:CZ	10:Q:58:VAL:CG2	2.64	0.81
9:P:28:LYS:CE	9:P:44:LEU:HD11	1.91	0.81
12:V:113:ARG:NE	12:V:139:SER:OG	2.14	0.81
2:B:125:MET:HG3	2:B:158:LEU:HD13	1.63	0.81
3:C:114:ARG:HB3	3:C:115:LYS:HG3	1.63	0.81
5:E:279:GLN:HB3	5:E:298:ASP:HB2	1.17	0.81
13:G:27:LEU:O	13:G:31:ILE:HG22	1.81	0.81
13:G:42:VAL:HA	13:G:67:LEU:CD1	2.11	0.81
13:G:113:TYR:CE2	13:G:150:GLN:HA	2.16	0.81
2:B:19:GLU:HA	8:O:652:LYS:HG3	1.63	0.81
3:C:378:GLN:HG3	3:C:381:LEU:HD12	1.62	0.81
4:D:6:ARG:HE	4:D:43:GLU:HG2	1.46	0.81
5:E:240:LEU:HB2	6:F:163:LEU:HD13	1.63	0.81
8:O:281:GLU:HA	8:O:284:ASN:HD22	1.46	0.81
8:O:503:LEU:CA	8:O:504:GLY:N	2.43	0.81
4:D:226:LEU:HG	4:D:258:LEU:HD11	1.62	0.80
4:D:319:ILE:HD13	4:D:327:LEU:HD22	1.64	0.80
5:E:252:SER:N	6:F:221:LEU:C	2.35	0.80
5:E:285:PHE:HB3	12:V:62:VAL:CG1	2.10	0.80
5:E:298:ASP:OD1	5:E:299:LYS:HB2	1.81	0.80
5:E:298:ASP:O	5:E:299:LYS:N	2.14	0.80
5:E:331:ILE:O	13:G:180:GLY:HA3	1.80	0.80
8:O:462:LYS:HG3	8:O:467:TYR:HA	1.63	0.80
8:O:612:LYS:HG2	8:O:657:MET:HG2	1.63	0.80
8:O:685:VAL:HG22	8:O:725:LEU:CD2	2.11	0.80
9:P:27:LEU:HD23	9:P:44:LEU:HB2	1.61	0.80
9:P:30:ILE:CA	10:Q:5:PHE:CE2	2.64	0.80
2:B:14:GLU:O	2:B:18:LEU:HG	1.79	0.80
4:D:30:LEU:HD22	4:D:65:LEU:HD22	1.61	0.80
4:D:167:TYR:O	4:D:170:ARG:NH1	2.15	0.80
5:E:296:SER:O	5:E:298:ASP:N	2.12	0.80
8:O:548:PHE:CG	11:R:33:TRP:CZ3	2.69	0.80
8:O:721:CYS:O	11:R:46:ARG:HD3	1.80	0.80
12:V:140:LEU:HD22	12:V:147:ILE:N	1.97	0.80
13:G:27:LEU:CD1	13:G:55:LEU:HB3	2.10	0.80
4:D:315:LEU:CD1	13:G:137:TYR:CD2	2.61	0.80
4:D:388:ILE:CD1	4:D:396:THR:CG2	2.54	0.80
7:H:198:ALA:HA	13:G:191:GLN:NE2	1.96	0.80
8:O:565:LYS:HB2	11:R:23:GLU:OE2	1.81	0.80
9:P:15:PHE:HD2	10:Q:18:ILE:CD1	1.91	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:P:16:THR:OG1	10:Q:5:PHE:CE1	1.74	0.80
3:C:5:LEU:HB3	3:C:42:LEU:HG	1.62	0.80
5:E:332:ASN:HD22	13:G:179:ASP:CA	1.95	0.80
9:P:26:GLU:O	9:P:27:LEU:C	2.19	0.80
9:P:93:PHE:O	10:Q:51:SER:HB2	1.82	0.80
12:V:135:LEU:HB2	12:V:201:LEU:HD22	1.62	0.80
13:G:142:GLN:H	13:G:154:VAL:HG13	1.46	0.80
1:A:303:ALA:HB2	1:A:332:CYS:HB2	1.63	0.80
3:C:342:ILE:HG21	7:H:124:ALA:HA	1.64	0.80
4:D:315:LEU:CD2	13:G:137:TYR:CD2	2.65	0.80
5:E:98:LEU:HD11	5:E:113:ALA:HB2	1.62	0.80
5:E:248:ASN:CB	6:F:222:ILE:O	2.28	0.80
5:E:279:GLN:O	5:E:298:ASP:OD2	1.92	0.80
8:O:110:THR:CB	10:Q:28:THR:HG23	2.10	0.80
9:P:14:ILE:CG1	10:Q:17:GLU:CG	2.34	0.80
13:G:30:LEU:O	13:G:34:VAL:HG23	1.80	0.80
4:D:89:LEU:HA	4:D:92:ILE:HD12	1.64	0.80
4:D:322:GLU:HA	4:D:332:ALA:HB2	1.64	0.80
5:E:120:TYR:HA	6:F:111:GLN:HB3	1.63	0.80
8:O:105:TYR:O	8:O:109:ASN:N	2.15	0.80
8:O:728:LYS:HA	11:R:54:ILE:C	2.02	0.80
1:A:444:ILE:HG12	1:A:449:ILE:HG21	1.62	0.80
2:B:295:ASP:HB3	11:R:71:ALA:CA	2.12	0.80
4:D:9:LEU:HD23	4:D:12:LEU:HD12	1.64	0.80
4:D:297:SER:OG	4:D:302:ARG:NH1	2.15	0.80
8:O:110:THR:HG21	10:Q:28:THR:CB	2.11	0.80
8:O:131:ASP:HB2	8:O:135:PRO:HB3	1.64	0.80
9:P:15:PHE:HE2	10:Q:16:TYR:CB	1.78	0.80
11:R:41:ASN:H	11:R:49:ILE:HB	1.46	0.80
2:B:386:GLU:HA	2:B:389:LEU:HD12	1.63	0.80
2:B:427:TRP:HH2	6:F:293:GLY:HA2	1.41	0.80
5:E:188:THR:HG22	5:E:221:TYR:HB3	1.62	0.80
5:E:327:LEU:HD23	13:G:181:CYS:O	1.81	0.80
8:O:325:ARG:HA	8:O:329:ASN:HB2	1.62	0.80
12:V:180:ILE:HD13	12:V:188:LEU:HD12	1.64	0.80
5:E:247:VAL:O	6:F:228:ILE:CB	2.29	0.80
8:O:45:LEU:HD22	8:O:57:LEU:HD22	1.64	0.80
1:A:97:ILE:HG23	1:A:118:ALA:HB1	1.63	0.80
4:D:319:ILE:HD11	4:D:323:GLU:HG3	1.62	0.80
4:D:406:GLN:HB3	6:F:236:LYS:HG3	1.64	0.80
5:E:53:LYS:O	5:E:225:GLU:N	2.10	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:245:TYR:HE1	6:F:192:THR:HG22	1.46	0.80
5:E:332:ASN:C	13:G:177:TRP:HA	2.02	0.80
8:O:522:ALA:O	8:O:557:HIS:HB2	1.81	0.80
12:V:73:GLN:N	12:V:140:LEU:O	2.15	0.80
2:B:25:ASN:C	2:B:28:PRO:HD3	2.01	0.79
2:B:259:PHE:HE2	11:R:66:GLU:CB	1.95	0.79
7:H:44:TYR:HB3	7:H:49:ASP:HB3	1.64	0.79
8:O:521:GLN:HE22	8:O:554:THR:C	1.84	0.79
1:A:101:GLN:HE22	1:A:130:MET:HB3	1.44	0.79
5:E:323:ILE:CG2	13:G:188:ILE:HD11	1.98	0.79
6:F:43:LEU:HB3	6:F:84:MET:HE2	1.63	0.79
8:O:38:ARG:HB2	8:O:104:LEU:HD22	1.64	0.79
8:O:440:ALA:HB1	8:O:519:LEU:HG	1.62	0.79
8:O:489:LYS:HG2	8:O:492:ASN:ND2	1.95	0.79
9:P:68:ARG:HE	9:P:71:ALA:HB3	1.48	0.79
10:Q:91:LEU:HD21	12:V:184:LEU:CD2	2.12	0.79
1:A:416:PRO:HB3	2:B:393:ILE:CD1	2.12	0.79
2:B:28:PRO:C	2:B:31:ASP:OD1	2.19	0.79
2:B:365:PRO:HG3	4:D:344:THR:CG2	2.12	0.79
3:C:351:ILE:N	7:H:124:ALA:O	2.15	0.79
4:D:366:ALA:O	4:D:370:TRP:N	2.16	0.79
8:O:101:MET:HB3	8:O:139:ILE:HD13	1.64	0.79
8:O:696:HIS:CB	8:O:739:ASP:HA	2.12	0.79
13:G:27:LEU:HG	13:G:55:LEU:HD13	1.64	0.79
2:B:297:GLN:CD	11:R:70:VAL:CG2	2.51	0.79
2:B:368:ARG:CG	4:D:353:ASP:OD1	2.31	0.79
4:D:395:TRP:CZ2	6:F:249:GLU:N	2.36	0.79
5:E:37:GLN:HA	5:E:40:LEU:HD12	1.65	0.79
6:F:231:LEU:HA	6:F:234:ARG:HB2	1.64	0.79
8:O:612:LYS:CG	8:O:657:MET:CG	2.59	0.79
8:O:676:ARG:HH21	8:O:710:ARG:NE	1.80	0.79
2:B:292:ASN:ND2	11:R:71:ALA:HB2	1.97	0.79
8:O:49:TYR:CZ	10:Q:92:LEU:CD1	2.59	0.79
8:O:490:PHE:HE1	8:O:539:MET:HB2	1.22	0.79
8:O:555:TRP:CZ3	11:R:30:VAL:N	2.47	0.79
1:A:97:ILE:HG12	1:A:118:ALA:HA	1.63	0.79
2:B:427:TRP:CE2	5:E:273:LEU:HD11	2.17	0.79
3:C:248:ILE:HA	3:C:251:ARG:HB2	1.64	0.79
4:D:261:TYR:O	4:D:265:GLU:N	2.14	0.79
5:E:77:VAL:HB	5:E:98:LEU:HB2	1.64	0.79
1:A:420:ALA:O	1:A:460:LEU:N	2.14	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:429:PHE:HB3	1:A:431:THR:HG22	1.64	0.79
3:C:94:ARG:NH1	3:C:130:LYS:O	2.15	0.79
3:C:340:HIS:HA	3:C:343:GLU:HB3	1.64	0.79
3:C:355:ASP:HB3	3:C:357:MET:HE2	1.63	0.79
8:O:461:LEU:O	8:O:465:CYS:N	2.16	0.79
10:Q:81:GLU:HA	12:V:161:ARG:NH2	1.98	0.79
11:R:50:MET:HE1	11:R:52:LEU:HD21	1.64	0.79
11:R:94:CYS:SG	11:R:99:ARG:N	2.55	0.79
1:A:297:ARG:NH1	12:V:142:VAL:CB	2.46	0.79
5:E:323:ILE:HG23	13:G:188:ILE:HD13	1.62	0.79
8:O:544:TYR:OH	8:O:551:ARG:O	2.00	0.79
8:O:692:LYS:HZ1	8:O:743:TYR:HD2	1.24	0.79
8:O:733:ARG:NH2	11:R:96:LEU:HD22	1.97	0.79
9:P:30:ILE:CA	10:Q:5:PHE:HE2	1.96	0.79
10:Q:60:TYR:HB2	12:V:158:LEU:HD13	1.62	0.79
13:G:145:LEU:HA	13:G:152:LEU:HD12	1.63	0.79
1:A:293:GLU:O	1:A:297:ARG:N	2.16	0.79
3:C:310:LEU:HD11	3:C:325:ARG:HB3	1.64	0.79
4:D:314:LYS:CD	13:G:137:TYR:CE1	2.65	0.79
8:O:656:SER:O	8:O:658:GLN:HG3	1.82	0.79
13:G:69:LEU:HD22	13:G:85:LEU:HD11	1.64	0.79
13:G:206:GLN:O	13:G:209:VAL:HG12	1.83	0.79
1:A:451:ALA:HA	1:A:463:ARG:H	1.48	0.79
2:B:5:GLU:HB3	2:B:8:PHE:HB2	1.64	0.79
2:B:438:VAL:CG1	6:F:302:MET:HG2	2.07	0.79
6:F:254:HIS:CB	13:G:162:ILE:HG12	2.12	0.79
8:O:569:LEU:CG	11:R:20:LYS:H	1.87	0.79
13:G:62:ALA:CB	13:G:86:PRO:HD3	2.11	0.79
2:B:24:SER:HG	8:O:652:LYS:HE3	1.47	0.78
2:B:421:TYR:O	2:B:425:ASP:N	2.16	0.78
5:E:238:LEU:HD22	6:F:200:VAL:HG13	1.65	0.78
5:E:268:ASP:O	5:E:272:LYS:N	2.11	0.78
5:E:285:PHE:CG	12:V:62:VAL:HG21	2.18	0.78
7:H:57:TRP:O	7:H:65:LYS:NZ	2.13	0.78
9:P:100:PRO:HG3	10:Q:88:LEU:HG	1.64	0.78
10:Q:60:TYR:CD2	12:V:158:LEU:CB	2.64	0.78
13:G:132:ILE:HD13	13:G:145:LEU:HD11	1.63	0.78
1:A:387:ASN:HA	1:A:390:LEU:HD12	1.65	0.78
2:B:19:GLU:OE1	8:O:651:PHE:CD1	2.27	0.78
2:B:85:PHE:HZ	2:B:123:LYS:HE2	1.48	0.78
4:D:352:ILE:HD11	4:D:359:VAL:HG23	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:188:THR:HA	5:E:221:TYR:HA	1.65	0.78
5:E:332:ASN:CB	13:G:176:GLU:C	2.52	0.78
8:O:193:GLN:O	8:O:196:LYS:N	2.15	0.78
8:O:533:LEU:HD11	11:R:27:TRP:CH2	2.18	0.78
9:P:76:GLY:HA3	9:P:88:LEU:HD21	1.66	0.78
10:Q:91:LEU:CG	12:V:184:LEU:CD1	2.50	0.78
1:A:279:GLN:NE2	1:A:315:ASP:O	2.16	0.78
1:A:437:GLU:HA	1:A:440:LEU:HD12	1.63	0.78
4:D:42:LEU:HG	4:D:46:LYS:HE3	1.65	0.78
4:D:169:ASN:OD1	4:D:172:SER:OG	2.01	0.78
4:D:375:GLN:HG3	6:F:224:GLN:HG3	1.64	0.78
5:E:250:LEU:N	6:F:228:ILE:HD12	1.97	0.78
9:P:29:ARG:CB	9:P:33:GLY:N	2.46	0.78
13:G:101:ILE:HG22	13:G:116:LEU:CG	2.12	0.78
2:B:381:ASP:O	2:B:385:VAL:N	2.15	0.78
3:C:121:ILE:HG12	3:C:145:LEU:HD11	1.66	0.78
5:E:136:TRP:NE1	5:E:166:VAL:O	2.16	0.78
8:O:50:PRO:HA	8:O:53:LEU:HD13	1.65	0.78
8:O:567:ASN:C	11:R:21:ARG:CB	2.28	0.78
12:V:113:ARG:CG	12:V:139:SER:CB	2.61	0.78
2:B:295:ASP:O	11:R:71:ALA:HA	1.82	0.78
3:C:331:PRO:HA	3:C:334:ALA:HB3	1.63	0.78
4:D:77:PRO:O	4:D:81:ALA:N	2.15	0.78
4:D:237:SER:O	4:D:347:ARG:NH1	2.15	0.78
4:D:266:LYS:HD2	4:D:273:ILE:HD13	1.66	0.78
4:D:388:ILE:HA	4:D:396:THR:OG1	1.83	0.78
6:F:193:GLU:HB3	6:F:196:GLU:HB3	1.66	0.78
6:F:310:ASN:O	6:F:315:ARG:NH2	2.17	0.78
8:O:567:ASN:OD1	11:R:19:LYS:HB3	1.84	0.78
5:E:123:ASN:HB2	6:F:111:GLN:HE22	1.48	0.78
5:E:158:ASN:O	5:E:162:GLN:N	2.17	0.78
5:E:250:LEU:H	6:F:225:HIS:HD1	1.28	0.78
5:E:292:HIS:O	5:E:295:LYS:N	2.16	0.78
6:F:70:GLY:HA3	6:F:125:TYR:CE1	2.18	0.78
8:O:284:ASN:HB3	8:O:288:GLN:HE21	1.48	0.78
8:O:551:ARG:HB3	11:R:33:TRP:O	1.80	0.78
8:O:562:GLY:HA3	8:O:577:VAL:H	1.49	0.78
2:B:44:GLU:HG3	2:B:49:ALA:HB3	1.64	0.78
8:O:528:ALA:O	8:O:529:ILE:O	2.00	0.78
9:P:57:LEU:HA	9:P:60:CYS:HB2	1.66	0.78
11:R:84:ILE:HA	11:R:95:PRO:HG3	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:G:27:LEU:HD11	13:G:55:LEU:HB3	1.65	0.78
13:G:116:LEU:HD13	13:G:119:ASP:HB3	1.66	0.78
1:A:478:MET:HE1	2:B:431:LEU:HD13	1.66	0.78
2:B:296:SER:O	11:R:67:GLU:HG3	1.83	0.78
6:F:242:VAL:HG21	13:G:174:LEU:HD11	1.65	0.78
8:O:32:ARG:CD	8:O:35:TRP:CZ3	2.67	0.78
8:O:49:TYR:OH	10:Q:92:LEU:HG	1.83	0.78
8:O:392:ALA:HB2	8:O:431:PHE:CE1	2.19	0.78
2:B:32:LEU:HD11	8:O:649:THR:OG1	1.84	0.78
4:D:234:ILE:HA	4:D:267:MET:HE1	1.66	0.78
5:E:279:GLN:HG2	5:E:294:ARG:HD2	1.64	0.78
8:O:490:PHE:HB2	8:O:543:PHE:HE2	1.48	0.78
8:O:567:ASN:N	11:R:19:LYS:CA	2.45	0.78
8:O:569:LEU:H	11:R:18:LYS:HD3	1.49	0.78
9:P:15:PHE:CD1	10:Q:58:VAL:CG2	2.67	0.78
12:V:120:ARG:NH1	12:V:126:ASP:O	2.17	0.78
2:B:442:LEU:CD2	6:F:309:PHE:HE2	1.96	0.78
3:C:121:ILE:HG23	3:C:145:LEU:HD21	1.66	0.78
6:F:261:TYR:CD1	13:G:170:ILE:HD13	2.19	0.78
8:O:284:ASN:O	8:O:288:GLN:N	2.17	0.78
8:O:660:ASP:C	8:O:663:GLN:H	1.88	0.78
8:O:732:GLU:HG3	8:O:733:ARG:H	1.49	0.78
12:V:120:ARG:NH1	12:V:197:ASP:OD2	2.17	0.78
1:A:443:LEU:HA	1:A:447:GLY:H	1.48	0.77
2:B:278:LYS:HE2	2:B:308:ILE:HB	1.66	0.77
3:C:80:GLN:O	3:C:83:LEU:HB2	1.85	0.77
4:D:307:HIS:O	4:D:311:SER:N	2.17	0.77
5:E:242:TRP:CH2	6:F:219:GLU:CD	2.42	0.77
6:F:257:LEU:HD22	13:G:166:ASP:HB2	1.66	0.77
9:P:15:PHE:CE1	10:Q:58:VAL:CG2	2.67	0.77
9:P:98:GLU:C	10:Q:85:GLU:HG3	1.95	0.77
12:V:120:ARG:NH2	12:V:125:HIS:O	2.17	0.77
1:A:486:ALA:HB1	3:C:386:LEU:HD11	1.67	0.77
2:B:27:GLU:N	2:B:28:PRO:HD3	2.00	0.77
3:C:93:ILE:HB	3:C:94:ARG:HH11	1.49	0.77
8:O:725:LEU:CG	11:R:46:ARG:CZ	2.59	0.77
12:V:207:ALA:C	12:V:208:ALA:HA	2.03	0.77
13:G:22:THR:HG23	13:G:26:ALA:C	2.05	0.77
13:G:31:ILE:O	13:G:35:LEU:HG	1.84	0.77
1:A:133:GLU:OE2	1:A:136:ARG:NH2	2.17	0.77
2:B:14:GLU:O	2:B:18:LEU:CD1	2.32	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:259:PHE:CZ	11:R:67:GLU:OE1	2.37	0.77
2:B:424:LEU:HD12	6:F:289:MET:HE1	1.62	0.77
5:E:296:SER:C	5:E:298:ASP:H	1.87	0.77
11:R:40:ASP:HB2	11:R:77:HIS:HD1	1.50	0.77
1:A:421:ASP:O	1:A:425:MET:N	2.15	0.77
2:B:297:GLN:N	11:R:67:GLU:HG3	2.00	0.77
5:E:201:SER:OG	5:E:218:CYS:O	2.02	0.77
6:F:264:CYS:HA	6:F:267:LEU:HD12	1.67	0.77
8:O:106:ARG:HH12	10:Q:27:PRO:CA	1.97	0.77
8:O:316:GLN:HG3	8:O:371:ALA:HB2	1.67	0.77
8:O:567:ASN:OD1	11:R:19:LYS:CB	2.21	0.77
12:V:197:ASP:OD1	12:V:200:ARG:NH1	2.18	0.77
12:V:203:GLN:O	12:V:207:ALA:CB	2.33	0.77
1:A:128:VAL:HG13	1:A:131:TYR:HD2	1.50	0.77
1:A:297:ARG:NH2	12:V:142:VAL:HG11	1.98	0.77
4:D:70:CYS:HA	4:D:73:LEU:HG	1.64	0.77
4:D:195:LEU:HB3	4:D:200:LYS:HB2	1.67	0.77
4:D:304:VAL:O	4:D:309:LEU:N	2.17	0.77
5:E:25:ILE:HG22	5:E:231:SER:HA	1.67	0.77
5:E:108:ASN:HA	5:E:154:THR:HG23	1.65	0.77
8:O:379:ARG:NH1	8:O:383:SER:O	2.16	0.77
8:O:523:PRO:HD2	8:O:558:TYR:CE1	2.19	0.77
8:O:563:GLU:HG3	11:R:27:TRP:CG	2.20	0.77
9:P:100:PRO:N	10:Q:88:LEU:HD11	1.99	0.77
1:A:185:LEU:HG	1:A:189:LYS:HE3	1.66	0.77
1:A:368:LYS:O	1:A:372:SER:N	2.17	0.77
2:B:77:LYS:O	2:B:81:LYS:N	2.14	0.77
2:B:195:LEU:HD23	2:B:228:ILE:HD13	1.67	0.77
2:B:359:LEU:HD11	2:B:378:LEU:HD11	1.66	0.77
2:B:402:ILE:HA	2:B:409:LEU:HD13	1.66	0.77
3:C:40:SER:O	3:C:44:THR:N	2.16	0.77
3:C:182:LEU:HB3	3:C:219:ILE:HG21	1.65	0.77
6:F:41:VAL:HG21	6:F:119:LEU:HA	1.65	0.77
6:F:51:ILE:HA	6:F:125:TYR:CZ	2.19	0.77
7:H:43:LEU:HD23	7:H:46:LEU:HD12	1.65	0.77
9:P:9:ARG:HH11	9:P:77:LEU:HD11	1.49	0.77
13:G:132:ILE:HD12	13:G:133:ILE:N	1.99	0.77
1:A:418:VAL:HG23	2:B:401:ARG:NE	1.99	0.77
8:O:633:ASP:HB3	8:O:635:GLU:HB3	1.65	0.77
8:O:688:MET:SD	8:O:731:ILE:CB	2.73	0.77
9:P:37:ARG:HB3	9:P:42:GLN:HE21	1.50	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:101:GLN:HA	1:A:115:LEU:HD23	1.66	0.77
4:D:388:ILE:HG23	4:D:396:THR:HB	0.92	0.77
6:F:258:ARG:HD3	13:G:161:ASP:H	1.50	0.77
8:O:51:GLU:HB2	8:O:52:PRO:HD3	1.67	0.77
8:O:182:HIS:HB2	8:O:253:TYR:HA	1.65	0.77
8:O:490:PHE:CZ	8:O:494:ILE:CG2	2.67	0.77
8:O:563:GLU:CB	11:R:27:TRP:HB2	2.14	0.77
9:P:16:THR:CB	10:Q:5:PHE:HE1	1.96	0.77
13:G:31:ILE:HG13	13:G:63:TYR:CE1	2.19	0.77
3:C:250:GLY:HA2	3:C:254:LYS:HB3	1.66	0.77
3:C:310:LEU:HD22	3:C:314:PHE:HE2	1.48	0.77
7:H:114:ARG:CA	7:H:137:VAL:HG11	2.14	0.77
8:O:110:THR:HG21	10:Q:28:THR:N	2.00	0.77
11:R:100:GLU:HG2	11:R:102:GLU:HB3	1.67	0.77
2:B:17:ASP:OD2	2:B:66:GLU:OE2	2.02	0.77
5:E:244:LYS:NZ	6:F:230:MET:SD	2.57	0.77
5:E:285:PHE:CG	12:V:62:VAL:CG2	2.68	0.77
6:F:231:LEU:HD12	6:F:234:ARG:HB2	1.64	0.77
9:P:13:THR:CG2	10:Q:16:TYR:CD2	2.40	0.77
12:V:195:GLN:HA	12:V:198:LEU:HD12	1.66	0.77
1:A:208:TYR:HB3	1:A:213:ASP:HB2	1.65	0.76
4:D:27:ARG:O	4:D:31:GLU:N	2.18	0.76
4:D:33:ALA:HA	4:D:36:LEU:HG	1.68	0.76
8:O:149:LYS:HA	8:O:152:VAL:HB	1.68	0.76
8:O:393:LYS:O	8:O:396:ASP:HB2	1.85	0.76
8:O:574:VAL:HA	11:R:19:LYS:HE3	1.66	0.76
2:B:367:THR:OG1	2:B:368:ARG:NH1	2.18	0.76
2:B:371:ILE:HD11	2:B:409:LEU:HB2	1.67	0.76
2:B:441:LYS:NZ	6:F:303:ASN:CG	2.38	0.76
3:C:156:LYS:HA	3:C:159:LEU:HD12	1.65	0.76
4:D:387:LYS:C	4:D:390:GLN:N	2.39	0.76
6:F:261:TYR:HA	13:G:170:ILE:CD1	2.15	0.76
2:B:10:CYS:SG	2:B:70:LYS:CE	2.73	0.76
2:B:25:ASN:ND2	8:O:647:LYS:HD3	1.96	0.76
4:D:85:TYR:HD1	4:D:106:ILE:HG23	1.51	0.76
5:E:250:LEU:CD2	5:E:323:ILE:CG2	2.63	0.76
5:E:326:LYS:HA	13:G:184:VAL:HG11	1.65	0.76
5:E:331:ILE:O	13:G:180:GLY:CA	2.33	0.76
7:H:17:LEU:HA	7:H:43:LEU:HD13	1.67	0.76
7:H:17:LEU:HD13	7:H:43:LEU:HB2	1.66	0.76
8:O:596:TYR:O	8:O:600:GLN:HB2	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:692:LYS:HD2	8:O:743:TYR:CD2	2.20	0.76
2:B:14:GLU:C	2:B:18:LEU:HD12	2.06	0.76
2:B:259:PHE:CE2	11:R:66:GLU:HB2	2.21	0.76
2:B:426:LYS:HD2	2:B:429:ASN:HB3	1.66	0.76
2:B:427:TRP:CA	5:E:270:SER:HB2	2.15	0.76
3:C:383:CYS:SG	6:F:291:TYR:OH	2.44	0.76
5:E:251:SER:O	5:E:253:SER:HB3	1.83	0.76
5:E:265:GLN:O	5:E:269:LEU:N	2.16	0.76
8:O:16:LYS:HZ3	8:O:41:ASP:HA	1.50	0.76
3:C:216:VAL:HA	3:C:253:ILE:HD11	1.67	0.76
5:E:285:PHE:O	5:E:286:MET:CB	2.16	0.76
9:P:15:PHE:HB3	10:Q:18:ILE:HG13	1.67	0.76
2:B:24:SER:H	8:O:652:LYS:HZ2	0.78	0.76
2:B:85:PHE:O	2:B:89:MET:N	2.17	0.76
2:B:441:LYS:HD2	6:F:303:ASN:HA	1.66	0.76
3:C:5:LEU:HA	3:C:8:PHE:HE2	1.50	0.76
4:D:240:GLN:HG2	4:D:347:ARG:HD3	1.67	0.76
4:D:263:ILE:O	4:D:267:MET:N	2.19	0.76
5:E:69:ALA:HB2	5:E:139:SER:HB2	1.67	0.76
6:F:75:LYS:HB2	6:F:82:GLU:HB3	1.67	0.76
13:G:18:LEU:O	13:G:22:THR:HB	1.86	0.76
1:A:87:TYR:HA	1:A:91:TYR:HD2	1.51	0.76
4:D:31:GLU:HA	4:D:34:ILE:HD12	1.67	0.76
4:D:384:LEU:O	4:D:387:LYS:HB3	1.84	0.76
6:F:252:PHE:CZ	13:G:165:LYS:HA	2.21	0.76
8:O:113:ILE:HB	8:O:119:THR:HG21	1.66	0.76
8:O:437:ARG:NH2	8:O:518:PRO:O	2.17	0.76
8:O:688:MET:SD	8:O:725:LEU:HB3	2.24	0.76
9:P:15:PHE:CG	10:Q:18:ILE:CD1	2.69	0.76
12:V:73:GLN:HG2	12:V:143:ASP:O	1.83	0.76
13:G:50:ALA:O	13:G:53:GLN:HG2	1.85	0.76
13:G:96:LEU:HA	13:G:99:LEU:CD1	2.16	0.76
13:G:96:LEU:HA	13:G:99:LEU:HD12	1.66	0.76
1:A:107:CYS:O	1:A:111:ARG:N	2.12	0.76
1:A:136:ARG:NH1	1:A:140:GLU:OE2	2.18	0.76
1:A:272:GLY:O	1:A:277:GLN:N	2.19	0.76
2:B:420:ARG:CG	5:E:263:THR:CB	2.58	0.76
4:D:52:MET:O	4:D:95:ARG:NH1	2.19	0.76
5:E:246:TRP:CE3	6:F:229:LYS:CA	2.63	0.76
7:H:81:ILE:O	7:H:84:ARG:NE	2.19	0.76
12:V:181:VAL:HB	12:V:184:LEU:HG	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:G:172:LYS:HA	13:G:172:LYS:CE	2.15	0.76
2:B:295:ASP:CB	11:R:71:ALA:HA	2.16	0.76
2:B:338:MET:HE1	2:B:347:ILE:HG21	1.67	0.76
5:E:250:LEU:HD22	13:G:185:LEU:CD2	2.16	0.76
8:O:693:VAL:O	8:O:699:LEU:HD23	1.85	0.76
4:D:264:LEU:O	4:D:268:TYR:N	2.18	0.76
6:F:261:TYR:HB2	13:G:170:ILE:CD1	2.16	0.76
8:O:49:TYR:CE1	10:Q:92:LEU:HD12	1.79	0.76
3:C:400:ASN:HD22	6:F:312:LEU:HG	1.49	0.75
4:D:307:HIS:HA	4:D:310:LEU:HB3	1.66	0.75
5:E:251:SER:O	6:F:224:GLN:N	2.19	0.75
5:E:255:LEU:HD12	5:E:321:GLN:HG3	1.68	0.75
8:O:59:THR:HA	8:O:135:PRO:HD2	1.68	0.75
8:O:569:LEU:C	11:R:18:LYS:HD3	2.06	0.75
2:B:20:TYR:N	8:O:652:LYS:CG	2.49	0.75
2:B:205:TYR:HE1	2:B:213:LYS:HB2	1.51	0.75
2:B:205:TYR:O	2:B:209:LYS:N	2.19	0.75
2:B:260:GLU:OE2	11:R:66:GLU:OE1	2.04	0.75
5:E:200:PRO:HD2	5:E:222:TYR:HA	1.67	0.75
5:E:244:LYS:HE3	6:F:229:LYS:O	1.86	0.75
7:H:129:ILE:HA	7:H:160:ARG:HG2	1.67	0.75
8:O:113:ILE:O	8:O:119:THR:OG1	2.02	0.75
1:A:258:VAL:HG13	1:A:285:LEU:HD22	1.69	0.75
1:A:451:ALA:HA	1:A:462:ALA:HA	1.68	0.75
4:D:281:PHE:HA	4:D:284:MET:HB2	1.66	0.75
5:E:129:ARG:HG3	6:F:57:ARG:HH11	1.50	0.75
5:E:279:GLN:HG3	5:E:295:LYS:HE3	1.69	0.75
8:O:35:TRP:HD1	10:Q:38:ARG:HH21	1.31	0.75
2:B:296:SER:OG	11:R:67:GLU:CD	2.25	0.75
5:E:327:LEU:CD2	13:G:181:CYS:C	2.55	0.75
5:E:327:LEU:HD23	13:G:181:CYS:HA	1.67	0.75
6:F:238:ILE:HG22	13:G:174:LEU:HD13	1.69	0.75
9:P:70:GLN:C	10:Q:59:GLU:CD	2.43	0.75
11:R:84:ILE:HG21	11:R:101:TRP:HA	1.66	0.75
12:V:146:PRO:N	12:V:147:ILE:HA	1.86	0.75
4:D:114:TYR:O	4:D:118:GLU:N	2.18	0.75
5:E:250:LEU:HB3	6:F:228:ILE:CD1	2.11	0.75
8:O:27:LEU:O	8:O:27:LEU:HD23	1.86	0.75
8:O:73:HIS:HE1	8:O:154:PRO:HG3	1.51	0.75
8:O:249:ARG:HA	8:O:252:LYS:HG3	1.66	0.75
8:O:512:LEU:HB2	8:O:551:ARG:CB	2.17	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:G:18:LEU:HB3	13:G:30:LEU:HD13	1.68	0.75
5:E:294:ARG:NH1	5:E:297:GLU:C	2.34	0.75
5:E:294:ARG:CA	5:E:295:LYS:HE2	2.10	0.75
8:O:584:VAL:HG11	8:O:610:LEU:HB2	1.69	0.75
8:O:694:LEU:HD11	8:O:699:LEU:HD23	1.66	0.75
8:O:696:HIS:HA	8:O:722:ILE:CD1	2.16	0.75
9:P:41:GLU:HG2	9:P:82:ASP:HA	1.67	0.75
2:B:58:LEU:HD13	2:B:72:LEU:HD21	1.68	0.75
2:B:427:TRP:HA	5:E:270:SER:CB	2.16	0.75
4:D:101:GLU:H	4:D:137:LYS:HG2	1.51	0.75
4:D:148:TYR:HB3	4:D:171:ALA:HB2	1.67	0.75
7:H:24:GLU:HA	7:H:32:ALA:HB2	1.69	0.75
8:O:688:MET:SD	8:O:725:LEU:CB	2.75	0.75
10:Q:80:PHE:O	12:V:161:ARG:CD	2.35	0.75
13:G:112:PRO:HA	13:G:151:LEU:HD23	1.69	0.75
1:A:79:ASN:HB3	1:A:390:LEU:HD21	1.69	0.75
2:B:317:ALA:O	2:B:321:ASN:N	2.20	0.75
4:D:63:ARG:HA	4:D:99:PHE:HE1	1.52	0.75
6:F:267:LEU:CD2	13:G:177:TRP:CD1	2.69	0.75
7:H:121:VAL:HG13	7:H:128:ILE:HG21	1.68	0.75
8:O:362:GLN:O	8:O:366:SER:N	2.19	0.75
8:O:458:ILE:HA	8:O:461:LEU:HG	1.69	0.75
4:D:371:ASP:HA	4:D:374:ILE:HD12	1.68	0.75
5:E:285:PHE:HD2	12:V:62:VAL:HG11	1.48	0.75
6:F:69:ILE:HD11	6:F:98:ILE:HG22	1.69	0.75
7:H:98:TRP:HB3	7:H:102:VAL:HB	1.67	0.75
8:O:170:ASP:HB2	8:O:249:ARG:HE	1.52	0.75
8:O:192:GLU:OE2	8:O:202:PHE:N	2.20	0.75
4:D:233:THR:HG22	4:D:246:LEU:HG	1.67	0.74
5:E:285:PHE:CD1	12:V:62:VAL:HG22	2.21	0.74
5:E:326:LYS:O	13:G:184:VAL:HB	1.87	0.74
6:F:33:CYS:HA	6:F:184:ALA:HB2	1.68	0.74
8:O:98:ALA:HB1	8:O:140:GLY:HA2	1.69	0.74
8:O:102:ASP:OD1	8:O:109:ASN:ND2	2.20	0.74
2:B:370:HIS:HB3	2:B:373:PHE:HB2	1.69	0.74
3:C:82:GLN:O	3:C:86:SER:N	2.20	0.74
5:E:249:THR:N	6:F:222:ILE:HD12	2.02	0.74
8:O:106:ARG:HA	8:O:109:ASN:HD22	1.52	0.74
8:O:485:ASP:HA	8:O:488:ASN:HD22	1.52	0.74
8:O:544:TYR:HE2	8:O:552:LYS:HG2	1.50	0.74
12:V:65:SER:HB2	12:V:91:PHE:HD1	1.50	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:193:ILE:HB	1:A:196:SER:HB2	1.69	0.74
2:B:86:PRO:HA	2:B:89:MET:HB3	1.69	0.74
3:C:59:LEU:HD22	3:C:81:VAL:HG22	1.68	0.74
5:E:245:TYR:HH	6:F:222:ILE:HG12	0.95	0.74
6:F:43:LEU:HD23	6:F:191:ALA:H	1.50	0.74
8:O:573:TYR:HB3	8:O:650:LYS:HE2	1.69	0.74
13:G:47:LEU:HA	13:G:52:VAL:HG21	1.69	0.74
2:B:18:LEU:O	2:B:20:TYR:HD2	1.70	0.74
2:B:27:GLU:HG2	2:B:64:LYS:HG2	1.67	0.74
2:B:341:PRO:O	2:B:345:GLU:N	2.20	0.74
8:O:32:ARG:CD	8:O:35:TRP:CE3	2.67	0.74
9:P:99:LEU:HD12	9:P:103:MET:CB	1.94	0.74
12:V:89:LEU:HB3	12:V:116:LEU:HD22	1.67	0.74
2:B:18:LEU:HA	2:B:27:GLU:HB2	1.69	0.74
2:B:256:THR:N	11:R:64:THR:OG1	2.15	0.74
2:B:375:SER:O	2:B:379:ASN:N	2.21	0.74
4:D:274:ARG:NH2	4:D:329:GLU:OE2	2.19	0.74
5:E:90:MET:SD	5:E:187:ARG:NH1	2.60	0.74
5:E:246:TRP:C	6:F:229:LYS:HB2	2.07	0.74
5:E:251:SER:HA	5:E:324:LYS:CD	2.17	0.74
5:E:273:LEU:O	5:E:276:SER:OG	2.04	0.74
5:E:285:PHE:HB2	12:V:62:VAL:HG13	1.68	0.74
6:F:262:ALA:HB1	13:G:157:CYS:SG	2.27	0.74
8:O:103:CYS:HA	10:Q:35:GLY:HA3	1.68	0.74
8:O:505:ILE:CD1	8:O:533:LEU:CD2	2.64	0.74
10:Q:88:LEU:HD13	12:V:179:ASP:OD2	1.85	0.74
13:G:110:CYS:HB3	13:G:151:LEU:CB	2.17	0.74
2:B:159:TYR:CE2	2:B:167:LYS:HE2	2.22	0.74
2:B:238:ARG:O	2:B:242:GLY:N	2.21	0.74
2:B:245:HIS:O	2:B:249:GLY:N	2.17	0.74
3:C:352:ASN:O	3:C:356:GLY:N	2.21	0.74
4:D:78:ASP:HA	4:D:81:ALA:HB3	1.68	0.74
6:F:152:LEU:HG	6:F:165:VAL:HG13	1.68	0.74
9:P:25:PHE:HA	9:P:39:PRO:HG3	1.67	0.74
13:G:72:TYR:CE2	13:G:164:LYS:HB3	2.23	0.74
1:A:408:ARG:HA	1:A:411:ILE:HD12	1.70	0.74
3:C:210:THR:HG22	3:C:245:THR:HA	1.69	0.74
3:C:365:GLU:OE2	3:C:369:ASN:ND2	2.21	0.74
4:D:293:THR:HA	4:D:299:ILE:HG13	1.68	0.74
6:F:288:LEU:O	6:F:292:LEU:HG	1.88	0.74
7:H:90:TYR:HA	7:H:93:ILE:HB	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:428:LYS:HB2	8:O:432:GLN:HE21	1.53	0.74
9:P:63:THR:OG1	9:P:66:THR:N	2.21	0.74
12:V:120:ARG:HG3	12:V:194:VAL:HG22	1.70	0.74
13:G:15:PHE:CE1	13:G:34:VAL:HG22	2.23	0.74
13:G:19:ALA:HB1	13:G:52:VAL:HG13	1.68	0.74
2:B:18:LEU:HD13	8:O:648:ARG:HE	1.52	0.74
6:F:267:LEU:CG	13:G:177:TRP:CD1	2.71	0.74
8:O:361:ASP:O	8:O:364:PHE:N	2.20	0.74
8:O:548:PHE:HB3	11:R:33:TRP:CZ3	2.21	0.74
8:O:676:ARG:NH2	8:O:710:ARG:HG2	2.03	0.74
8:O:722:ILE:O	8:O:726:ILE:HG12	1.88	0.74
9:P:15:PHE:CG	10:Q:58:VAL:CG2	2.68	0.74
4:D:119:ASP:OD2	4:D:122:ASN:ND2	2.21	0.74
4:D:388:ILE:CG1	4:D:396:THR:CG2	2.64	0.74
5:E:61:ALA:O	5:E:65:MET:CB	2.36	0.74
5:E:246:TRP:CZ2	6:F:229:LYS:C	2.60	0.74
5:E:329:ASN:HB3	6:F:276:LYS:HE2	1.68	0.74
9:P:56:THR:O	9:P:60:CYS:N	2.21	0.74
12:V:146:PRO:HD3	12:V:148:PHE:CE1	2.22	0.74
13:G:94:ASN:HA	13:G:97:LYS:CD	2.16	0.74
13:G:97:LYS:HB3	13:G:120:LEU:HD13	1.68	0.74
1:A:79:ASN:ND2	1:A:386:ASP:O	2.21	0.74
2:B:110:LYS:HA	2:B:113:ASN:HD22	1.52	0.74
5:E:28:ILE:HG21	5:E:229:PHE:HB2	1.69	0.74
5:E:246:TRP:H	6:F:229:LYS:CD	2.00	0.74
5:E:260:ASP:O	5:E:263:THR:OG1	2.02	0.74
5:E:327:LEU:HD22	13:G:181:CYS:CB	2.17	0.74
8:O:84:LEU:HD23	8:O:159:LEU:HG	1.70	0.74
8:O:454:GLU:O	8:O:458:ILE:HD12	1.88	0.74
8:O:469:PHE:HA	8:O:472:LYS:CD	2.18	0.74
9:P:13:THR:HG23	10:Q:16:TYR:CD2	2.23	0.74
9:P:14:ILE:HG12	10:Q:17:GLU:CG	2.17	0.74
9:P:93:PHE:HA	10:Q:16:TYR:OH	1.87	0.74
1:A:278:THR:HG22	1:A:313:HIS:HA	1.68	0.73
1:A:373:LYS:O	1:A:377:CYS:N	2.19	0.73
1:A:433:VAL:O	1:A:437:GLU:CB	2.35	0.73
5:E:246:TRP:CB	6:F:229:LYS:HD2	1.69	0.73
8:O:611:THR:HB	8:O:630:GLU:CA	2.16	0.73
12:V:203:GLN:O	12:V:207:ALA:HB2	1.88	0.73
1:A:87:TYR:O	1:A:91:TYR:N	2.21	0.73
1:A:133:GLU:HG3	1:A:137:LYS:HE3	1.68	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:32:LEU:HD21	8:O:649:THR:CB	2.16	0.73
2:B:259:PHE:CE2	11:R:66:GLU:CB	2.71	0.73
4:D:232:CYS:O	4:D:236:ALA:N	2.21	0.73
4:D:285:LEU:HD22	4:D:289:GLN:HB3	1.70	0.73
4:D:320:THR:HG22	4:D:358:ILE:HG12	1.68	0.73
7:H:90:TYR:O	7:H:94:ASN:N	2.21	0.73
2:B:221:SER:HA	2:B:224:ILE:HD11	1.69	0.73
8:O:483:SER:O	8:O:507:PHE:CE2	2.42	0.73
8:O:725:LEU:HD23	11:R:46:ARG:CZ	2.18	0.73
11:R:82:HIS:O	11:R:86:ARG:HG2	1.88	0.73
13:G:12:LEU:H	13:G:12:LEU:HD13	1.53	0.73
13:G:41:TYR:HB2	13:G:161:ASP:OD1	1.88	0.73
13:G:91:ALA:O	13:G:95:LYS:HG3	1.88	0.73
13:G:113:TYR:OH	13:G:145:LEU:HB3	1.87	0.73
1:A:436:LEU:O	1:A:440:LEU:HG	1.88	0.73
2:B:159:TYR:HE2	2:B:167:LYS:HE2	1.51	0.73
2:B:428:THR:HA	2:B:431:LEU:HD12	1.71	0.73
3:C:316:THR:HG23	3:C:358:VAL:H	1.53	0.73
5:E:59:ALA:H	6:F:46:LEU:HD13	1.53	0.73
7:H:111:ASP:OD1	7:H:114:ARG:NH1	2.22	0.73
8:O:490:PHE:HE1	8:O:539:MET:CG	2.01	0.73
8:O:505:ILE:HG22	11:R:27:TRP:CB	2.14	0.73
8:O:610:LEU:O	8:O:614:ILE:HD12	1.89	0.73
13:G:98:HIS:HD2	13:G:135:ALA:HB2	1.52	0.73
2:B:41:ALA:HB1	2:B:50:ALA:HB1	1.71	0.73
4:D:187:TYR:HD2	4:D:188:LYS:HD2	1.53	0.73
8:O:302:ARG:HA	8:O:308:LEU:HG	1.69	0.73
8:O:438:MET:HA	8:O:441:LYS:HE2	1.69	0.73
10:Q:91:LEU:CD2	12:V:184:LEU:CD2	2.65	0.73
6:F:261:TYR:HB2	13:G:170:ILE:HD11	1.69	0.73
8:O:50:PRO:HB3	8:O:53:LEU:HB2	1.71	0.73
8:O:565:LYS:HG3	11:R:19:LYS:HD3	1.71	0.73
8:O:617:LEU:O	8:O:622:MET:N	2.20	0.73
8:O:687:ILE:HD13	8:O:706:GLN:NE2	2.03	0.73
9:P:11:LYS:HE3	10:Q:14:LYS:HG3	1.70	0.73
12:V:98:TYR:HB3	12:V:99:PRO:HD2	1.69	0.73
1:A:332:CYS:O	1:A:336:THR:OG1	2.03	0.73
2:B:212:LYS:HG2	2:B:215:LYS:HE3	1.71	0.73
2:B:441:LYS:HD3	6:F:306:VAL:HB	1.71	0.73
6:F:110:GLU:OE2	6:F:114:GLN:NE2	2.22	0.73
8:O:36:ASN:HA	8:O:39:PHE:HD2	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:179:LYS:O	8:O:183:GLY:N	2.18	0.73
8:O:622:MET:HE1	8:O:653:ILE:HD13	1.71	0.73
8:O:688:MET:SD	8:O:731:ILE:HB	2.29	0.73
9:P:98:GLU:C	10:Q:85:GLU:CG	2.55	0.73
9:P:100:PRO:HG3	10:Q:88:LEU:CG	2.17	0.73
2:B:329:ILE:O	2:B:333:ASN:N	2.21	0.73
3:C:153:LYS:O	7:H:59:ARG:NH1	2.22	0.73
3:C:387:ASP:HB2	6:F:298:THR:HG23	1.70	0.73
4:D:31:GLU:OE2	4:D:35:GLN:NE2	2.20	0.73
5:E:60:LEU:N	6:F:46:LEU:HD22	2.03	0.73
5:E:247:VAL:O	6:F:228:ILE:CG1	2.36	0.73
5:E:250:LEU:O	5:E:328:PHE:HE2	1.69	0.73
6:F:51:ILE:HG21	6:F:154:LEU:HD13	1.70	0.73
8:O:160:ILE:HG21	8:O:210:PRO:HG2	1.71	0.73
8:O:544:TYR:OH	11:R:33:TRP:HE3	1.69	0.73
8:O:562:GLY:N	8:O:577:VAL:O	2.22	0.73
8:O:656:SER:O	8:O:658:GLN:CD	2.27	0.73
8:O:657:MET:C	8:O:658:GLN:HB2	2.09	0.73
8:O:700:ILE:CD1	8:O:718:ILE:HB	2.19	0.73
9:P:15:PHE:CD2	10:Q:58:VAL:CG2	2.62	0.73
9:P:15:PHE:N	10:Q:18:ILE:HD12	2.04	0.73
1:A:452:ARG:O	1:A:461:TYR:N	2.22	0.73
1:A:504:SER:HA	3:C:215:ALA:HB2	1.71	0.73
2:B:28:PRO:HD2	2:B:29:ASN:N	2.04	0.73
2:B:194:LEU:HB3	2:B:228:ILE:HD12	1.71	0.73
2:B:338:MET:HE1	2:B:344:ARG:HA	1.68	0.73
3:C:205:TYR:HB2	3:C:227:TYR:HB2	1.69	0.73
5:E:128:GLY:HA3	6:F:61:GLN:HE22	1.54	0.73
5:E:240:LEU:HD23	5:E:243:ASN:HD22	1.54	0.73
5:E:251:SER:CA	5:E:324:LYS:HD3	2.19	0.73
8:O:105:TYR:OH	8:O:137:MET:O	2.06	0.73
8:O:131:ASP:OD2	8:O:135:PRO:HA	1.89	0.73
8:O:166:GLU:HA	8:O:169:ASN:HD22	1.53	0.73
8:O:399:LEU:O	8:O:449:MET:N	2.21	0.73
2:B:28:PRO:HD2	2:B:29:ASN:H	1.52	0.73
3:C:136:ASN:ND2	3:C:160:PRO:O	2.21	0.73
3:C:347:ILE:HD13	3:C:358:VAL:HG12	1.70	0.73
5:E:39:ILE:HB	5:E:85:VAL:HG23	1.71	0.73
5:E:98:LEU:HD13	5:E:100:VAL:HG11	1.71	0.73
5:E:248:ASN:CA	6:F:222:ILE:O	2.36	0.73
8:O:65:LEU:HG	8:O:94:TYR:OH	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:G:149:ASN:HB3	13:G:151:LEU:HG	1.70	0.73
6:F:98:ILE:HG22	6:F:138:VAL:HG21	1.71	0.72
9:P:30:ILE:N	10:Q:5:PHE:CD2	2.57	0.72
9:P:63:THR:H	9:P:66:THR:HB	1.54	0.72
13:G:56:ALA:O	13:G:57:GLU:HG3	1.89	0.72
13:G:98:HIS:CD2	13:G:135:ALA:HB2	2.24	0.72
2:B:23:ASP:H	8:O:652:LYS:HZ3	1.37	0.72
2:B:431:LEU:HD21	6:F:296:THR:OG1	1.89	0.72
4:D:52:MET:HA	4:D:57:VAL:HG11	1.70	0.72
4:D:141:VAL:HA	4:D:144:LYS:HE3	1.71	0.72
5:E:330:GLN:HA	6:F:268:PRO:HB2	1.70	0.72
6:F:254:HIS:NE2	13:G:44:GLY:CA	2.50	0.72
7:H:148:ILE:O	7:H:153:TRP:N	2.16	0.72
7:H:209:ASN:OXT	13:G:202:HIS:CB	2.36	0.72
8:O:505:ILE:HG21	11:R:27:TRP:HE3	1.47	0.72
8:O:511:VAL:HG11	8:O:551:ARG:CZ	1.96	0.72
8:O:512:LEU:H	11:R:32:LEU:HD22	1.51	0.72
8:O:553:LEU:CA	11:R:32:LEU:H	1.93	0.72
8:O:571:LYS:NZ	8:O:642:MET:SD	2.62	0.72
8:O:729:GLN:CG	11:R:55:GLU:CG	2.66	0.72
9:P:99:LEU:CD1	10:Q:84:THR:OG1	2.36	0.72
9:P:104:LYS:HD3	12:V:169:LEU:HD22	1.69	0.72
13:G:140:ILE:HD13	13:G:158:ILE:H	1.53	0.72
1:A:144:GLU:O	1:A:147:ASN:ND2	2.22	0.72
2:B:89:MET:HA	2:B:92:TYR:CE1	2.23	0.72
2:B:255:HIS:HA	2:B:258:PHE:HD2	1.53	0.72
3:C:374:HIS:O	3:C:378:GLN:NE2	2.22	0.72
5:E:119:ALA:HB1	6:F:111:GLN:HG2	1.71	0.72
11:R:45:CYS:HB2	11:R:54:ILE:H	1.49	0.72
2:B:5:GLU:O	2:B:9:MET:HB2	1.89	0.72
4:D:388:ILE:HG12	4:D:396:THR:CG2	2.18	0.72
5:E:70:ARG:HD3	5:E:176:ILE:HD11	1.72	0.72
8:O:35:TRP:HB2	10:Q:39:GLU:CG	2.04	0.72
8:O:490:PHE:CD2	8:O:494:ILE:CG1	2.57	0.72
12:V:89:LEU:HD21	12:V:93:GLY:HA2	1.72	0.72
13:G:22:THR:CG2	13:G:27:LEU:HA	2.19	0.72
3:C:27:LEU:O	3:C:30:LYS:N	2.22	0.72
3:C:217:SER:O	3:C:221:LEU:N	2.17	0.72
4:D:385:LEU:HD13	6:F:238:ILE:HG13	1.71	0.72
5:E:282:ARG:HH11	5:E:282:ARG:CB	2.03	0.72
6:F:217:VAL:HB	13:G:192:VAL:HG11	0.78	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:P:1:MET:HG3	9:P:64:SER:HB2	1.70	0.72
1:A:342:LEU:O	1:A:347:ILE:N	2.22	0.72
2:B:342:PHE:HA	2:B:345:GLU:HB3	1.70	0.72
3:C:374:HIS:ND1	3:C:377:ASP:OD2	2.23	0.72
4:D:324:LEU:HD22	4:D:359:VAL:HB	1.70	0.72
5:E:37:GLN:NE2	5:E:132:ASN:OD1	2.23	0.72
5:E:183:LEU:HD22	5:E:226:VAL:HG21	1.71	0.72
5:E:244:LYS:HE3	6:F:230:MET:HA	1.66	0.72
8:O:465:CYS:SG	8:O:466:GLY:N	2.62	0.72
8:O:505:ILE:CD1	8:O:533:LEU:HD23	2.20	0.72
8:O:569:LEU:HB2	11:R:18:LYS:CB	2.20	0.72
8:O:600:GLN:HA	8:O:603:THR:HG23	1.71	0.72
8:O:699:LEU:O	8:O:703:VAL:HG23	1.90	0.72
9:P:7:ILE:HA	9:P:75:VAL:HB	1.71	0.72
9:P:98:GLU:O	10:Q:85:GLU:HA	1.89	0.72
12:V:207:ALA:O	12:V:208:ALA:CA	2.26	0.72
3:C:85:ILE:O	3:C:89:ASN:ND2	2.23	0.72
7:H:94:ASN:HA	7:H:97:GLN:HE21	1.55	0.72
8:O:103:CYS:C	10:Q:35:GLY:CA	2.52	0.72
8:O:103:CYS:HA	10:Q:35:GLY:CA	2.18	0.72
8:O:293:ASP:O	8:O:297:MET:CB	2.37	0.72
8:O:489:LYS:CG	8:O:492:ASN:HD21	1.67	0.72
1:A:185:LEU:HB2	1:A:204:LEU:HD21	1.71	0.72
1:A:321:SER:OG	1:A:324:ASN:N	2.21	0.72
2:B:436:GLN:O	3:C:243:LYS:NZ	2.22	0.72
4:D:85:TYR:HB2	4:D:110:LEU:HD13	1.70	0.72
5:E:146:TRP:HB3	5:E:169:VAL:HG22	1.70	0.72
5:E:247:VAL:HA	6:F:228:ILE:HG22	1.72	0.72
6:F:46:LEU:HG	6:F:46:LEU:O	1.89	0.72
6:F:103:GLU:HA	6:F:106:TYR:HD2	1.54	0.72
6:F:262:ALA:CB	13:G:157:CYS:SG	2.78	0.72
8:O:569:LEU:HG	11:R:20:LYS:H	0.92	0.72
12:V:60:ARG:HB3	12:V:91:PHE:HB3	1.71	0.72
3:C:216:VAL:HG13	3:C:253:ILE:HG12	1.71	0.72
3:C:319:LEU:HD22	3:C:334:ALA:HB1	1.72	0.72
4:D:315:LEU:HD11	13:G:137:TYR:CD2	2.22	0.72
5:E:147:LEU:HD22	5:E:151:ASP:HB3	1.70	0.72
5:E:246:TRP:CZ3	6:F:228:ILE:O	2.43	0.72
5:E:246:TRP:H	6:F:229:LYS:HD3	1.53	0.72
6:F:267:LEU:HD13	13:G:177:TRP:CB	2.16	0.72
8:O:550:GLY:HA2	11:R:36:ASP:OD1	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Q:88:LEU:HD23	12:V:179:ASP:HB3	1.66	0.72
12:V:74:VAL:HG21	12:V:138:PRO:HB3	1.70	0.72
13:G:27:LEU:HD12	13:G:55:LEU:HD22	1.72	0.72
1:A:84:LEU:HD23	1:A:87:TYR:HD2	1.54	0.72
1:A:418:VAL:HG23	2:B:401:ARG:NH2	2.04	0.72
1:A:433:VAL:O	1:A:437:GLU:HB2	1.90	0.72
2:B:21:SER:O	8:O:652:LYS:CB	2.36	0.72
3:C:319:LEU:O	3:C:323:ALA:N	2.22	0.72
3:C:344:ASP:HB2	3:C:346:GLU:HG3	1.72	0.72
3:C:387:ASP:HA	3:C:390:LEU:HD12	1.72	0.72
5:E:189:TYR:N	5:E:220:GLN:O	2.22	0.72
5:E:281:GLY:HA3	5:E:282:ARG:HH22	1.54	0.72
6:F:122:LEU:HG	6:F:150:LEU:HB3	1.70	0.72
8:O:45:LEU:HD21	8:O:57:LEU:HD13	1.71	0.72
8:O:490:PHE:CD1	8:O:494:ILE:HG13	2.25	0.72
2:B:442:LEU:CD2	6:F:309:PHE:CE2	2.70	0.71
5:E:83:GLY:HA3	5:E:134:ILE:HG21	1.72	0.71
5:E:262:THR:O	5:E:266:VAL:N	2.18	0.71
5:E:274:GLU:O	5:E:278:ALA:N	2.21	0.71
6:F:237:LEU:O	6:F:241:TYR:HB2	1.89	0.71
6:F:258:ARG:NE	13:G:159:GLY:C	2.26	0.71
9:P:79:PHE:N	9:P:86:GLU:OE1	2.22	0.71
13:G:24:GLY:N	13:G:27:LEU:HB2	2.04	0.71
5:E:186:PHE:HA	5:E:222:TYR:O	1.89	0.71
8:O:386:LYS:O	8:O:390:LEU:N	2.20	0.71
8:O:557:HIS:HB3	8:O:579:THR:HG21	1.72	0.71
3:C:73:ASP:HA	3:C:76:THR:OG1	1.91	0.71
5:E:323:ILE:HD11	7:H:197:LEU:HD21	1.72	0.71
11:R:53:CYS:O	11:R:57:GLN:N	2.21	0.71
12:V:161:ARG:HH12	12:V:165:VAL:HB	1.55	0.71
13:G:185:LEU:O	13:G:189:GLU:HG3	1.90	0.71
2:B:18:LEU:HD22	8:O:648:ARG:CZ	2.20	0.71
3:C:12:VAL:O	3:C:16:SER:N	2.17	0.71
3:C:260:TYR:HA	3:C:263:LEU:HB3	1.71	0.71
4:D:388:ILE:CG2	4:D:396:THR:CG2	2.68	0.71
8:O:468:GLU:O	8:O:472:LYS:HG3	1.89	0.71
8:O:610:LEU:HB3	8:O:631:ASP:HA	1.72	0.71
9:P:18:ALA:HB1	9:P:26:GLU:HG3	1.72	0.71
9:P:43:ARG:NH2	9:P:86:GLU:O	2.23	0.71
12:V:73:GLN:CG	12:V:144:GLY:N	2.53	0.71
12:V:88:TRP:HD1	12:V:116:LEU:H	1.36	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:414:GLN:OE1	2:B:416:ARG:NE	2.23	0.71
5:E:246:TRP:CD2	6:F:229:LYS:CA	2.36	0.71
5:E:327:LEU:HD23	13:G:181:CYS:CA	2.19	0.71
7:H:209:ASN:OXT	13:G:202:HIS:HB2	1.90	0.71
8:O:569:LEU:CA	11:R:20:LYS:HB3	2.20	0.71
8:O:612:LYS:HE2	8:O:657:MET:H	1.55	0.71
9:P:15:PHE:CD1	10:Q:58:VAL:HG21	2.25	0.71
12:V:87:VAL:HA	12:V:96:GLN:O	1.91	0.71
1:A:245:SER:HB3	1:A:250:ASN:HB2	1.71	0.71
2:B:259:PHE:HE2	11:R:66:GLU:HB3	1.54	0.71
3:C:121:ILE:HA	3:C:145:LEU:HD11	1.72	0.71
6:F:254:HIS:NE2	13:G:162:ILE:HD13	2.05	0.71
8:O:407:THR:HB	8:O:410:GLU:HB2	1.72	0.71
8:O:573:TYR:HB3	8:O:650:LYS:HB3	1.70	0.71
8:O:733:ARG:HH21	11:R:96:LEU:HD21	1.36	0.71
9:P:69:PRO:CA	10:Q:62:ASN:HD21	1.79	0.71
11:R:78:ALA:HA	11:R:100:GLU:HB3	1.73	0.71
12:V:76:PHE:CB	12:V:101:LEU:HD11	2.19	0.71
1:A:467:GLN:HE22	2:B:422:THR:HG23	0.93	0.71
2:B:70:LYS:O	2:B:74:GLN:HG2	1.89	0.71
2:B:79:ASN:CB	2:B:88:MET:HB2	2.21	0.71
3:C:179:LYS:HG2	3:C:182:LEU:HD12	1.72	0.71
4:D:215:THR:HA	4:D:222:ARG:HD3	1.71	0.71
4:D:381:VAL:HG12	6:F:231:LEU:HD11	1.72	0.71
5:E:55:CYS:HA	5:E:90:MET:O	1.91	0.71
5:E:243:ASN:N	6:F:229:LYS:NZ	2.39	0.71
9:P:1:MET:O	9:P:20:GLU:N	2.18	0.71
1:A:417:TYR:CE1	2:B:402:ILE:HG21	2.25	0.71
2:B:18:LEU:HD23	2:B:27:GLU:CA	2.21	0.71
4:D:104:ALA:O	4:D:107:ARG:HB2	1.90	0.71
4:D:128:VAL:HG22	4:D:167:TYR:OH	1.90	0.71
4:D:155:TYR:O	4:D:159:ASP:N	2.24	0.71
6:F:94:VAL:HG23	6:F:99:ILE:HG13	1.72	0.71
1:A:138:LEU:HG	1:A:160:PRO:HA	1.71	0.71
1:A:188:TYR:HA	1:A:191:ASN:HD22	1.56	0.71
1:A:245:SER:HA	1:A:248:LEU:HD12	1.73	0.71
2:B:76:ILE:HA	2:B:88:MET:HG2	1.73	0.71
4:D:90:GLU:OE1	4:D:91:LYS:NZ	2.24	0.71
4:D:384:LEU:O	4:D:387:LYS:HB2	1.89	0.71
6:F:109:GLU:O	6:F:113:LYS:N	2.15	0.71
6:F:309:PHE:O	6:F:313:TYR:N	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:42:ILE:HD13	8:O:45:LEU:HD12	1.72	0.71
8:O:490:PHE:CE1	8:O:539:MET:HB3	2.23	0.71
8:O:732:GLU:HB2	8:O:744:VAL:HG21	1.73	0.71
13:G:69:LEU:HA	13:G:73:GLY:HA3	1.72	0.71
2:B:255:HIS:HE1	11:R:68:CYS:SG	2.13	0.71
2:B:297:GLN:NE2	11:R:70:VAL:CG2	2.54	0.71
4:D:287:PRO:HA	4:D:290:LYS:HD2	1.73	0.71
1:A:230:SER:HB3	1:A:232:LYS:HG2	1.70	0.70
1:A:453:VAL:HG22	1:A:460:LEU:HA	1.73	0.70
2:B:11:ASP:OD1	2:B:67:TRP:HH2	1.70	0.70
5:E:82:LEU:HB2	5:E:94:ASP:HB2	1.73	0.70
8:O:692:LYS:CD	8:O:743:TYR:CD2	2.72	0.70
1:A:334:LEU:HD21	1:A:365:ILE:HG22	1.73	0.70
2:B:18:LEU:CD1	8:O:648:ARG:NE	2.52	0.70
2:B:251:PHE:O	2:B:255:HIS:N	2.22	0.70
5:E:242:TRP:HH2	6:F:219:GLU:H	1.36	0.70
6:F:142:VAL:HG12	6:F:149:PRO:HB2	1.73	0.70
9:P:9:ARG:HA	9:P:77:LEU:HD22	1.71	0.70
9:P:12:THR:HA	10:Q:15:GLU:CG	2.21	0.70
11:R:64:THR:HB	11:R:68:CYS:HB2	1.73	0.70
13:G:129:GLU:HA	13:G:132:ILE:HG13	1.74	0.70
13:G:149:ASN:CB	13:G:151:LEU:HG	2.21	0.70
1:A:311:PHE:HB3	1:A:354:LEU:HD12	1.71	0.70
2:B:17:ASP:CB	2:B:64:LYS:CD	2.60	0.70
2:B:263:LYS:HE2	8:O:475:ARG:HH12	1.57	0.70
2:B:431:LEU:HD21	6:F:296:THR:HA	1.73	0.70
3:C:82:GLN:HE21	3:C:126:GLN:HE22	1.39	0.70
6:F:57:ARG:NH1	6:F:88:GLU:OE1	2.24	0.70
8:O:16:LYS:NZ	8:O:41:ASP:HA	2.06	0.70
8:O:243:LEU:HD21	8:O:270:MET:SD	2.31	0.70
8:O:697:ASN:O	8:O:700:ILE:HG22	1.90	0.70
9:P:17:ASP:CG	10:Q:65:LEU:HD23	2.12	0.70
10:Q:82:ILE:CD1	12:V:162:CYS:SG	2.79	0.70
13:G:43:PHE:CD2	13:G:67:LEU:HD13	2.27	0.70
13:G:97:LYS:O	13:G:100:THR:HG22	1.90	0.70
13:G:100:THR:CG2	13:G:120:LEU:HD21	2.20	0.70
2:B:19:GLU:CA	8:O:652:LYS:HG3	2.22	0.70
4:D:320:THR:HA	4:D:358:ILE:HG12	1.73	0.70
4:D:400:MET:HA	4:D:403:GLN:HB3	1.72	0.70
5:E:96:PHE:O	5:E:138:HIS:N	2.24	0.70
7:H:147:GLY:HA2	7:H:150:GLU:HG2	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:159:LEU:HD22	8:O:188:PHE:HE2	1.56	0.70
8:O:467:TYR:O	8:O:470:THR:OG1	2.06	0.70
8:O:529:ILE:HG23	8:O:533:LEU:HB2	1.74	0.70
8:O:626:ASP:HB2	8:O:636:SER:HA	1.72	0.70
8:O:685:VAL:HG22	8:O:725:LEU:HD22	1.72	0.70
1:A:478:MET:CE	2:B:428:THR:HG23	2.21	0.70
2:B:14:GLU:CG	2:B:67:TRP:NE1	2.51	0.70
2:B:323:ILE:HD11	2:B:355:ARG:HA	1.74	0.70
2:B:370:HIS:HA	2:B:408:LEU:HD23	1.73	0.70
4:D:58:SER:HB3	4:D:61:ILE:HB	1.73	0.70
4:D:114:TYR:HB3	4:D:123:ALA:HB2	1.72	0.70
6:F:65:PRO:CB	6:F:157:MET:HG3	2.22	0.70
6:F:264:CYS:SG	13:G:174:LEU:CD2	2.78	0.70
8:O:283:HIS:HA	8:O:286:ILE:HD12	1.73	0.70
13:G:61:ALA:O	13:G:65:GLN:HG3	1.92	0.70
1:A:467:GLN:HG2	2:B:418:GLY:HA3	0.71	0.70
2:B:14:GLU:CG	2:B:67:TRP:HD1	1.89	0.70
2:B:368:ARG:CB	2:B:410:GLU:HA	2.21	0.70
4:D:301:ASP:HB2	4:D:302:ARG:HH11	1.57	0.70
6:F:143:CYS:HA	6:F:149:PRO:HG3	1.74	0.70
8:O:611:THR:N	8:O:630:GLU:O	2.24	0.70
9:P:15:PHE:CA	10:Q:18:ILE:HD12	2.22	0.70
1:A:353:LYS:HA	1:A:356:LEU:HD12	1.74	0.70
3:C:225:LYS:HA	3:C:260:TYR:CE2	2.26	0.70
4:D:15:SER:HG	4:D:25:LYS:HZ3	1.37	0.70
4:D:89:LEU:HD12	4:D:110:LEU:HD23	1.73	0.70
4:D:304:VAL:O	4:D:308:ASN:C	2.30	0.70
8:O:397:ASN:HA	8:O:400:LYS:HE3	1.74	0.70
8:O:575:ALA:H	11:R:19:LYS:HE2	1.56	0.70
8:O:693:VAL:O	8:O:699:LEU:CD2	2.40	0.70
8:O:725:LEU:HD21	11:R:46:ARG:NH2	1.86	0.70
13:G:140:ILE:HD13	13:G:140:ILE:O	1.91	0.70
1:A:194:LYS:HA	1:A:227:TYR:HD1	1.55	0.70
2:B:32:LEU:CD1	8:O:649:THR:OG1	2.40	0.70
2:B:119:ILE:HA	2:B:123:LYS:HB2	1.74	0.70
2:B:343:ILE:O	2:B:347:ILE:HB	1.91	0.70
2:B:420:ARG:HG2	5:E:263:THR:HG21	0.70	0.70
2:B:420:ARG:CD	5:E:263:THR:HG21	2.22	0.70
3:C:190:MET:HA	3:C:226:LYS:HE2	1.74	0.70
4:D:263:ILE:HD13	4:D:266:LYS:HE3	1.74	0.70
5:E:214:PHE:O	5:E:218:CYS:N	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:246:TRP:HB3	6:F:229:LYS:HD2	1.66	0.70
8:O:508:GLN:HB3	11:R:30:VAL:HG22	1.74	0.70
8:O:522:ALA:CB	8:O:558:TYR:CE2	2.71	0.70
9:P:64:SER:OG	10:Q:66:LYS:NZ	2.24	0.70
11:R:97:ASP:O	11:R:99:ARG:NH1	2.24	0.70
13:G:56:ALA:CB	13:G:64:LEU:HD13	2.22	0.70
3:C:26:GLU:HB3	3:C:96:ALA:HB1	1.74	0.70
3:C:74:PHE:HB2	3:C:111:LEU:HD21	1.74	0.70
4:D:149:LEU:HD13	4:D:186:HIS:HB2	1.73	0.70
4:D:346:GLY:O	4:D:349:ASN:ND2	2.24	0.70
5:E:136:TRP:HZ2	5:E:167:ALA:HA	1.57	0.70
5:E:144:GLY:H	5:E:172:PRO:HD2	1.56	0.70
6:F:124:TRP:CZ2	6:F:138:VAL:HB	2.26	0.70
7:H:13:PHE:HE1	7:H:46:LEU:HD22	1.55	0.70
7:H:38:GLY:HA2	7:H:71:LEU:HD13	1.73	0.70
8:O:544:TYR:CE1	8:O:548:PHE:HB2	2.27	0.70
8:O:559:LEU:HB2	11:R:30:VAL:HG22	1.72	0.70
8:O:567:ASN:OD1	11:R:23:GLU:OE2	2.09	0.70
11:R:87:TRP:HA	11:R:90:THR:HG22	1.72	0.70
1:A:342:LEU:O	1:A:346:VAL:N	2.24	0.70
2:B:21:SER:O	8:O:652:LYS:CD	2.34	0.70
2:B:302:TYR:CE1	11:R:35:TRP:CZ3	2.78	0.70
3:C:5:LEU:HD11	3:C:35:LEU:HG	1.74	0.70
3:C:158:ALA:O	3:C:162:LEU:N	2.24	0.70
3:C:274:GLU:HA	3:C:277:ASN:HD22	1.57	0.70
4:D:60:VAL:HA	4:D:63:ARG:HG3	1.74	0.70
4:D:107:ARG:HD3	4:D:130:ILE:HG12	1.74	0.70
5:E:276:SER:HB3	5:E:300:LEU:HA	1.73	0.70
8:O:46:CYS:SG	10:Q:96:TYR:CD2	2.84	0.70
8:O:335:MET:HG3	8:O:337:THR:H	1.56	0.70
8:O:505:ILE:CD1	8:O:532:GLU:HB2	2.22	0.70
8:O:696:HIS:NE2	8:O:719:LYS:HA	2.07	0.70
13:G:110:CYS:HB2	13:G:151:LEU:HD13	1.74	0.70
1:A:378:LEU:HD12	1:A:406:ARG:HH11	1.56	0.69
2:B:441:LYS:HZ1	6:F:303:ASN:ND2	1.90	0.69
4:D:293:THR:N	4:D:297:SER:O	2.25	0.69
4:D:378:CYS:HB2	6:F:227:ALA:HB1	1.74	0.69
5:E:242:TRP:HH2	6:F:219:GLU:CA	2.05	0.69
8:O:103:CYS:C	10:Q:36:PRO:HD3	2.10	0.69
8:O:438:MET:HE3	8:O:441:LYS:HE2	1.74	0.69
8:O:632:ILE:HG13	8:O:636:SER:HB2	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R:41:ASN:OD1	11:R:49:ILE:N	2.25	0.69
11:R:43:ALA:HB1	11:R:96:LEU:HD12	1.74	0.69
2:B:23:ASP:H	8:O:652:LYS:NZ	1.89	0.69
2:B:211:ASN:O	2:B:215:LYS:N	2.24	0.69
3:C:336:LYS:O	3:C:339:LEU:HB3	1.91	0.69
4:D:264:LEU:HA	4:D:267:MET:HB2	1.75	0.69
5:E:60:LEU:HA	5:E:63:LEU:CD1	2.21	0.69
5:E:269:LEU:HA	5:E:272:LYS:HD2	1.74	0.69
6:F:261:TYR:CA	13:G:170:ILE:CD1	2.70	0.69
7:H:204:VAL:O	7:H:208:GLU:N	2.17	0.69
8:O:511:VAL:O	8:O:551:ARG:CD	2.40	0.69
8:O:710:ARG:HB3	8:O:711:PHE:HD1	1.57	0.69
9:P:15:PHE:CD1	10:Q:58:VAL:HG23	2.28	0.69
13:G:98:HIS:CA	13:G:101:ILE:HG12	2.22	0.69
3:C:351:ILE:HG22	3:C:353:GLN:HB2	1.74	0.69
4:D:367:LEU:HA	4:D:370:TRP:HB3	1.73	0.69
5:E:285:PHE:CB	12:V:62:VAL:HG11	2.16	0.69
9:P:27:LEU:CD2	9:P:44:LEU:CB	2.65	0.69
12:V:146:PRO:HB3	12:V:148:PHE:CA	2.23	0.69
1:A:294:LEU:HA	1:A:299:TYR:CE1	2.27	0.69
2:B:273:ARG:NH2	2:B:276:CYS:SG	2.63	0.69
4:D:240:GLN:HG2	4:D:347:ARG:CD	2.22	0.69
5:E:66:VAL:HG13	6:F:195:ALA:HB3	1.73	0.69
7:H:37:TYR:HB3	7:H:71:LEU:HD22	1.72	0.69
8:O:523:PRO:HD2	8:O:558:TYR:CZ	2.27	0.69
8:O:555:TRP:HZ3	11:R:29:ALA:CB	2.03	0.69
9:P:11:LYS:HZ1	10:Q:14:LYS:CD	2.05	0.69
12:V:60:ARG:NH1	12:V:65:SER:O	2.25	0.69
1:A:417:TYR:CE1	2:B:402:ILE:CG2	2.75	0.69
2:B:252:GLU:O	11:R:64:THR:OG1	2.10	0.69
2:B:331:LYS:O	2:B:334:HIS:ND1	2.26	0.69
2:B:422:THR:O	2:B:425:ASP:HB3	1.91	0.69
3:C:380:MET:HA	6:F:291:TYR:CE1	2.28	0.69
4:D:386:GLU:O	4:D:390:GLN:N	2.25	0.69
5:E:78:MET:SD	5:E:106:ARG:NH1	2.65	0.69
5:E:139:SER:HA	5:E:145:CYS:SG	2.33	0.69
6:F:43:LEU:HB3	6:F:191:ALA:HB2	1.75	0.69
6:F:69:ILE:HG13	6:F:91:SER:HB3	1.74	0.69
7:H:98:TRP:O	7:H:103:GLN:N	2.22	0.69
9:P:16:THR:CB	10:Q:5:PHE:CE1	2.71	0.69
13:G:132:ILE:CD1	13:G:145:LEU:HD21	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:346:VAL:HA	1:A:349:SER:HB2	1.75	0.69
1:A:483:GLN:HG2	3:C:382:LYS:HD2	1.74	0.69
2:B:47:PRO:HB2	2:B:51:LEU:HG	1.75	0.69
4:D:108:GLN:O	4:D:112:SER:N	2.20	0.69
4:D:406:GLN:HG3	6:F:240:GLU:HG3	1.73	0.69
8:O:505:ILE:CG2	11:R:27:TRP:HE3	2.04	0.69
9:P:15:PHE:CD2	10:Q:16:TYR:HB2	2.14	0.69
13:G:15:PHE:HD1	13:G:30:LEU:CD1	2.04	0.69
1:A:104:ALA:CB	1:A:111:ARG:HA	2.23	0.69
1:A:255:LEU:HD23	1:A:258:VAL:HG21	1.74	0.69
1:A:467:GLN:HG3	2:B:418:GLY:CA	2.21	0.69
2:B:425:ASP:O	2:B:429:ASN:N	2.25	0.69
3:C:42:LEU:CB	3:C:61:VAL:HG11	2.22	0.69
3:C:93:ILE:HB	3:C:94:ARG:HD3	1.73	0.69
4:D:362:GLU:O	4:D:364:ARG:NH1	2.25	0.69
5:E:77:VAL:HG11	5:E:98:LEU:O	1.92	0.69
6:F:82:GLU:HA	6:F:188:TYR:HB2	1.74	0.69
6:F:254:HIS:CE1	13:G:44:GLY:HA3	2.27	0.69
9:P:11:LYS:HZ2	10:Q:14:LYS:HG3	1.56	0.69
12:V:90:ASN:HB3	12:V:96:GLN:HG2	1.74	0.69
13:G:95:LYS:O	13:G:99:LEU:HG	1.93	0.69
1:A:94:LEU:HB2	1:A:247:TYR:HB3	1.73	0.69
1:A:264:THR:HB	1:A:265:PRO:HD3	1.74	0.69
1:A:352:PHE:O	1:A:356:LEU:N	2.24	0.69
2:B:18:LEU:CD1	8:O:648:ARG:CZ	2.71	0.69
2:B:94:GLN:O	2:B:97:THR:OG1	2.05	0.69
2:B:192:THR:HG22	8:O:474:HIS:CE1	2.27	0.69
2:B:297:GLN:N	11:R:67:GLU:CD	2.46	0.69
2:B:297:GLN:HG2	11:R:67:GLU:CG	2.23	0.69
2:B:353:ASN:O	2:B:357:GLN:NE2	2.25	0.69
3:C:5:LEU:HD12	3:C:38:ASN:HB3	1.74	0.69
3:C:123:ILE:HG22	3:C:124:LEU:HD12	1.74	0.69
3:C:191:ILE:O	3:C:195:LEU:N	2.15	0.69
4:D:97:ILE:HA	4:D:100:GLU:HB2	1.75	0.69
4:D:305:ILE:O	4:D:309:LEU:HB2	1.93	0.69
5:E:145:CYS:O	5:E:169:VAL:HA	1.93	0.69
5:E:230:LYS:NZ	6:F:203:VAL:O	2.25	0.69
5:E:269:LEU:O	5:E:272:LYS:HB2	1.92	0.69
6:F:34:GLY:CA	6:F:171:VAL:HG23	2.23	0.69
6:F:41:VAL:N	6:F:74:GLY:O	2.25	0.69
6:F:235:VAL:HA	6:F:238:ILE:HB	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:H:61:PRO:HG2	7:H:64:ILE:HD12	1.74	0.69
8:O:177:ASN:O	8:O:180:VAL:N	2.25	0.69
8:O:285:ILE:HG23	8:O:290:LYS:H	1.56	0.69
8:O:353:LEU:O	8:O:356:THR:OG1	2.11	0.69
8:O:451:MET:O	8:O:455:GLU:HG2	1.92	0.69
8:O:568:TYR:CE1	11:R:22:PHE:CB	2.75	0.69
8:O:648:ARG:HB2	8:O:651:PHE:HB2	1.72	0.69
10:Q:82:ILE:HD13	12:V:162:CYS:SG	2.32	0.69
12:V:101:LEU:HB3	12:V:105:THR:HB	1.73	0.69
13:G:41:TYR:CD2	13:G:160:ARG:HD2	2.28	0.69
1:A:331:LEU:HD21	1:A:362:VAL:HG22	1.75	0.69
3:C:40:SER:HA	3:C:43:ASP:HB3	1.75	0.69
3:C:231:SER:O	3:C:235:LEU:HB2	1.93	0.69
4:D:369:THR:HA	4:D:372:LYS:HD2	1.74	0.69
4:D:382:ASN:OD1	6:F:234:ARG:HG3	1.93	0.69
5:E:189:TYR:HB3	5:E:193:TYR:O	1.93	0.69
5:E:251:SER:O	5:E:253:SER:HB2	1.92	0.69
7:H:98:TRP:HD1	7:H:101:THR:HB	1.58	0.69
8:O:692:LYS:CE	8:O:743:TYR:HD2	1.97	0.69
8:O:732:GLU:HB2	8:O:744:VAL:CG2	2.23	0.69
13:G:15:PHE:CD1	13:G:34:VAL:HG22	2.27	0.69
4:D:269:LEU:HB2	4:D:271:ARG:CZ	2.23	0.69
6:F:35:VAL:O	6:F:170:SER:N	2.26	0.69
7:H:148:ILE:HA	7:H:153:TRP:HB2	1.74	0.69
9:P:30:ILE:N	10:Q:5:PHE:HE2	1.89	0.69
9:P:98:GLU:O	10:Q:85:GLU:CG	2.41	0.69
2:B:96:LEU:O	2:B:99:ILE:HG13	1.93	0.68
3:C:162:LEU:O	3:C:200:ARG:NH2	2.26	0.68
3:C:297:GLN:O	3:C:300:SER:OG	2.10	0.68
5:E:247:VAL:O	6:F:228:ILE:HD12	1.92	0.68
7:H:121:VAL:O	7:H:125:TYR:HB2	1.93	0.68
10:Q:91:LEU:HD22	12:V:180:ILE:HB	1.75	0.68
13:G:129:GLU:HA	13:G:132:ILE:CG1	2.23	0.68
1:A:194:LYS:HA	1:A:227:TYR:CD1	2.28	0.68
1:A:417:TYR:HE1	2:B:402:ILE:HG21	1.57	0.68
4:D:6:ARG:HG2	4:D:47:ALA:CB	2.23	0.68
5:E:244:LYS:HE3	6:F:230:MET:CA	2.21	0.68
5:E:279:GLN:CG	5:E:294:ARG:HD2	2.18	0.68
6:F:75:LYS:HG2	6:F:84:MET:SD	2.32	0.68
8:O:10:PHE:HE1	8:O:57:LEU:HA	1.57	0.68
8:O:354:ILE:HA	8:O:358:LEU:HB2	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:476:MET:SD	8:O:510:TYR:OH	2.47	0.68
8:O:586:LEU:HA	8:O:589:ASN:HD21	1.56	0.68
13:G:22:THR:HG23	13:G:27:LEU:N	2.08	0.68
2:B:169:GLN:HE21	2:B:173:ARG:HD3	1.58	0.68
6:F:46:LEU:HA	6:F:49:LEU:HG	1.74	0.68
6:F:73:ILE:CG1	6:F:85:ASN:HB3	2.23	0.68
12:V:130:VAL:HG23	12:V:151:ILE:HD13	1.75	0.68
13:G:108:MET:HG3	13:G:110:CYS:H	1.57	0.68
2:B:18:LEU:HD23	2:B:27:GLU:HB2	1.73	0.68
2:B:135:THR:O	2:B:139:LEU:N	2.27	0.68
2:B:176:HIS:O	2:B:180:GLN:N	2.19	0.68
3:C:126:GLN:O	3:C:130:LYS:HG2	1.92	0.68
3:C:198:PHE:HD2	3:C:234:LEU:HD13	1.59	0.68
4:D:378:CYS:CB	6:F:227:ALA:HB1	2.24	0.68
5:E:251:SER:O	6:F:223:ALA:HB3	1.93	0.68
5:E:274:GLU:HA	5:E:277:GLU:HB3	1.76	0.68
8:O:102:ASP:O	8:O:106:ARG:N	2.27	0.68
8:O:336:PRO:HA	8:O:339:PHE:HB3	1.76	0.68
8:O:578:THR:HG22	8:O:579:THR:H	1.59	0.68
8:O:701:GLN:HA	8:O:704:ILE:HD12	1.75	0.68
12:V:73:GLN:HG2	12:V:144:GLY:N	2.07	0.68
12:V:90:ASN:HB3	12:V:96:GLN:CG	2.24	0.68
1:A:103:ILE:HD11	1:A:392:MET:HB2	1.76	0.68
2:B:146:ARG:O	2:B:150:LYS:N	2.26	0.68
4:D:156:LEU:HD22	4:D:197:TYR:HE2	1.58	0.68
4:D:212:SER:HA	4:D:222:ARG:HB3	1.75	0.68
5:E:147:LEU:HB3	5:E:151:ASP:O	1.92	0.68
5:E:246:TRP:CA	6:F:219:GLU:OE1	2.40	0.68
6:F:47:VAL:HG11	6:F:85:ASN:OD1	1.94	0.68
6:F:94:VAL:CG2	6:F:99:ILE:HG13	2.24	0.68
6:F:242:VAL:CG2	13:G:174:LEU:HD11	2.24	0.68
7:H:196:GLN:O	7:H:199:ARG:HG2	1.93	0.68
8:O:58:TYR:OH	8:O:138:GLU:O	2.06	0.68
8:O:565:LYS:CB	11:R:23:GLU:OE2	2.41	0.68
8:O:620:VAL:HG21	8:O:653:ILE:HG22	1.75	0.68
8:O:676:ARG:NH2	8:O:710:ARG:CZ	2.56	0.68
12:V:146:PRO:HD3	12:V:148:PHE:CG	2.28	0.68
13:G:81:ASN:HB3	13:G:84:SER:OG	1.94	0.68
5:E:250:LEU:C	5:E:324:LYS:HG2	2.14	0.68
8:O:32:ARG:NE	10:Q:38:ARG:C	2.47	0.68
8:O:200:LEU:O	8:O:204:GLN:N	2.20	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:508:GLN:NE2	8:O:559:LEU:CA	2.56	0.68
8:O:685:VAL:CG2	8:O:725:LEU:HD21	2.24	0.68
2:B:47:PRO:O	2:B:51:LEU:N	2.24	0.68
2:B:322:ASP:O	2:B:325:GLU:HG3	1.94	0.68
2:B:365:PRO:HB3	4:D:344:THR:HG22	1.76	0.68
2:B:441:LYS:HZ2	6:F:303:ASN:CG	1.95	0.68
5:E:250:LEU:H	6:F:225:HIS:CG	2.10	0.68
8:O:565:LYS:CA	11:R:23:GLU:OE2	2.41	0.68
8:O:568:TYR:HE1	11:R:22:PHE:CB	2.06	0.68
9:P:3:VAL:HG21	9:P:57:LEU:HD13	1.75	0.68
1:A:422:MET:HA	1:A:425:MET:HB3	1.75	0.68
2:B:132:TYR:HE1	2:B:154:LYS:HB2	1.58	0.68
2:B:168:LEU:O	2:B:172:LEU:HG	1.93	0.68
2:B:296:SER:HA	11:R:67:GLU:O	1.94	0.68
3:C:190:MET:HG2	3:C:226:LYS:HE2	1.76	0.68
3:C:214:MET:HA	3:C:248:ILE:HG12	1.75	0.68
4:D:31:GLU:HA	4:D:34:ILE:HB	1.75	0.68
5:E:250:LEU:N	6:F:225:HIS:CB	2.52	0.68
6:F:258:ARG:HD3	13:G:161:ASP:N	2.09	0.68
8:O:726:ILE:HD12	8:O:733:ARG:HG2	1.74	0.68
12:V:80:SER:HB3	12:V:153:LEU:HB2	1.75	0.68
13:G:24:GLY:H	13:G:55:LEU:HD22	1.59	0.68
1:A:100:LEU:HD22	1:A:117:MET:HB2	1.75	0.68
2:B:342:PHE:O	2:B:346:HIS:N	2.19	0.68
5:E:247:VAL:HB	6:F:226:SER:O	1.93	0.68
6:F:254:HIS:HA	6:F:257:LEU:HD12	1.76	0.68
8:O:7:VAL:HA	8:O:53:LEU:CD1	2.20	0.68
8:O:618:LEU:HD12	8:O:621:LYS:HD3	1.75	0.68
9:P:5:LEU:HG	9:P:67:ALA:HB1	1.76	0.68
9:P:9:ARG:H	9:P:12:THR:HB	1.58	0.68
1:A:173:LYS:HA	1:A:176:LEU:HD12	1.76	0.68
1:A:394:LEU:HG	1:A:398:VAL:HB	1.76	0.68
2:B:163:GLU:HB3	2:B:165:TYR:HE2	1.59	0.68
2:B:265:TYR:O	2:B:269:GLY:N	2.24	0.68
3:C:377:ASP:O	3:C:381:LEU:HG	1.94	0.68
5:E:329:ASN:OD1	6:F:270:LEU:HB3	1.94	0.68
6:F:58:MET:HB3	6:F:66:VAL:HG11	1.74	0.68
7:H:206:PHE:O	7:H:209:ASN:ND2	2.27	0.68
8:O:285:ILE:HA	8:O:288:GLN:O	1.94	0.68
8:O:476:MET:HB2	8:O:517:TRP:CZ3	2.29	0.68
11:R:81:PHE:HA	11:R:102:GLU:HA	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:27:GLU:CG	2:B:64:LYS:CG	2.71	0.67
2:B:421:TYR:CD1	6:F:289:MET:HE3	2.29	0.67
4:D:36:LEU:HB3	4:D:40:GLU:HG2	1.75	0.67
5:E:78:MET:HG3	5:E:98:LEU:HD12	1.74	0.67
8:O:522:ALA:HB1	8:O:523:PRO:HD2	1.76	0.67
8:O:569:LEU:N	11:R:18:LYS:HD3	2.08	0.67
8:O:693:VAL:HG12	8:O:699:LEU:HA	1.74	0.67
9:P:69:PRO:CB	10:Q:62:ASN:ND2	2.56	0.67
12:V:72:SER:OG	12:V:140:LEU:C	2.31	0.67
13:G:102:VAL:HG21	13:G:160:ARG:HH12	1.58	0.67
2:B:300:LYS:O	2:B:303:LYS:HG2	1.94	0.67
3:C:85:ILE:CG2	3:C:126:GLN:HB2	2.24	0.67
4:D:315:LEU:HB3	13:G:134:GLU:CD	2.14	0.67
5:E:242:TRP:CE3	6:F:219:GLU:OE1	2.47	0.67
5:E:242:TRP:NE1	6:F:219:GLU:OE2	2.27	0.67
8:O:32:ARG:HG3	8:O:35:TRP:HE3	1.59	0.67
8:O:379:ARG:NH1	8:O:386:LYS:HB3	2.08	0.67
1:A:278:THR:CG2	1:A:313:HIS:HA	2.24	0.67
2:B:424:LEU:O	2:B:427:TRP:HB3	1.94	0.67
3:C:125:LYS:HA	3:C:128:ILE:HB	1.76	0.67
3:C:367:TYR:CD1	3:C:372:MET:HB3	2.29	0.67
5:E:74:ASN:HA	5:E:141:PRO:HB2	1.76	0.67
5:E:304:THR:OG1	6:F:300:ASN:ND2	2.21	0.67
5:E:327:LEU:CD2	13:G:181:CYS:CA	2.71	0.67
1:A:444:ILE:HA	1:A:449:ILE:HB	1.76	0.67
4:D:167:TYR:O	4:D:170:ARG:HG3	1.95	0.67
4:D:195:LEU:HB3	4:D:204:ALA:HB2	1.76	0.67
7:H:154:GLN:HG2	7:H:163:LEU:HD12	1.75	0.67
8:O:6:ARG:HB2	8:O:49:TYR:HB2	1.77	0.67
8:O:21:ILE:HA	8:O:24:VAL:HG12	1.76	0.67
8:O:563:GLU:HG3	11:R:27:TRP:HA	1.74	0.67
12:V:84:VAL:O	12:V:86:PRO:HD3	1.94	0.67
1:A:81:SER:OG	1:A:387:ASN:N	2.28	0.67
2:B:57:VAL:HG12	2:B:68:GLY:HA2	1.74	0.67
6:F:69:ILE:HG22	6:F:89:LEU:HD12	1.76	0.67
7:H:17:LEU:O	7:H:21:GLU:HG2	1.95	0.67
7:H:102:VAL:O	7:H:106:MET:HG2	1.95	0.67
8:O:106:ARG:CZ	10:Q:31:ALA:CB	2.62	0.67
2:B:24:SER:CB	8:O:652:LYS:HZ1	2.07	0.67
2:B:175:LEU:HD22	2:B:193:GLN:HG2	1.77	0.67
4:D:148:TYR:CD2	4:D:171:ALA:HA	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:308:ASN:O	4:D:312:ALA:HB3	1.95	0.67
5:E:252:SER:OG	5:E:320:SER:CA	2.42	0.67
8:O:428:LYS:O	8:O:431:PHE:N	2.28	0.67
8:O:614:ILE:HB	8:O:628:GLU:HA	1.77	0.67
12:V:113:ARG:CG	12:V:139:SER:HB3	2.21	0.67
13:G:112:PRO:HD2	13:G:115:VAL:HG21	1.76	0.67
1:A:184:ASP:HA	1:A:187:ASN:HD22	1.58	0.67
2:B:329:ILE:HG22	2:B:333:ASN:ND2	2.09	0.67
2:B:441:LYS:HZ1	6:F:303:ASN:HD21	1.43	0.67
5:E:240:LEU:HA	5:E:243:ASN:HD22	1.59	0.67
5:E:245:TYR:CE1	6:F:222:ILE:CD1	2.40	0.67
5:E:326:LYS:CG	13:G:184:VAL:HG12	2.10	0.67
6:F:59:ARG:O	6:F:63:GLY:N	2.27	0.67
7:H:120:LEU:HD12	7:H:124:ALA:HB3	1.77	0.67
8:O:110:THR:HG21	10:Q:28:THR:OG1	1.94	0.67
8:O:698:ALA:O	8:O:702:GLU:HG3	1.95	0.67
1:A:374:TYR:CD1	1:A:409:ALA:HB1	2.29	0.67
2:B:21:SER:CA	8:O:652:LYS:CD	2.73	0.67
2:B:149:PHE:HZ	2:B:196:GLU:HB3	1.59	0.67
2:B:194:LEU:HD23	2:B:224:ILE:HG12	1.77	0.67
2:B:256:THR:HB	11:R:65:SER:H	1.60	0.67
2:B:367:THR:HG21	2:B:413:HIS:HD2	1.59	0.67
3:C:35:LEU:HB2	3:C:39:LEU:HD21	1.76	0.67
3:C:125:LYS:HA	3:C:128:ILE:HD12	1.77	0.67
5:E:200:PRO:HD2	5:E:222:TYR:CA	2.25	0.67
5:E:251:SER:C	5:E:253:SER:CB	2.62	0.67
6:F:54:HIS:CA	6:F:88:GLU:HG2	2.25	0.67
7:H:201:THR:HG21	13:G:195:ALA:CB	1.94	0.67
8:O:548:PHE:HB3	11:R:33:TRP:CE3	2.30	0.67
8:O:608:LYS:HA	8:O:611:THR:HG22	1.76	0.67
11:R:87:TRP:O	11:R:91:ARG:N	2.23	0.67
1:A:297:ARG:HA	1:A:299:TYR:CE2	2.30	0.67
2:B:365:PRO:HG3	4:D:344:THR:HG22	1.75	0.67
2:B:368:ARG:HD3	4:D:353:ASP:CG	2.15	0.67
2:B:427:TRP:HE1	5:E:273:LEU:CG	2.07	0.67
3:C:91:GLU:O	3:C:94:ARG:NH1	2.28	0.67
4:D:256:GLN:HG2	4:D:261:TYR:CE2	2.30	0.67
4:D:315:LEU:HD21	13:G:137:TYR:CD2	2.27	0.67
5:E:279:GLN:CA	5:E:298:ASP:CG	2.63	0.67
6:F:32:ALA:CB	6:F:182:LEU:HA	2.24	0.67
6:F:43:LEU:CD2	6:F:84:MET:HB3	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:H:17:LEU:HB2	7:H:43:LEU:HB3	1.76	0.67
7:H:33:THR:HB	7:H:36:VAL:HG23	1.77	0.67
8:O:46:CYS:SG	8:O:111:GLN:NE2	2.66	0.67
8:O:508:GLN:NE2	8:O:559:LEU:C	2.47	0.67
12:V:83:VAL:O	12:V:121:ASP:HA	1.94	0.67
8:O:508:GLN:HB3	8:O:559:LEU:CG	2.23	0.67
9:P:80:ARG:HG3	9:P:83:ASP:CA	2.26	0.67
13:G:46:LEU:O	13:G:49:LEU:HD13	1.95	0.67
3:C:106:GLN:HA	3:C:109:ASN:HD22	1.60	0.66
3:C:265:GLN:O	3:C:268:SER:OG	2.11	0.66
4:D:22:LEU:HG	4:D:26:TYR:CE2	2.29	0.66
5:E:155:GLN:HG2	5:E:188:THR:HG21	1.78	0.66
6:F:34:GLY:HA2	6:F:171:VAL:HG23	1.77	0.66
8:O:106:ARG:HH12	10:Q:27:PRO:C	1.98	0.66
8:O:388:PRO:O	8:O:392:ALA:N	2.27	0.66
8:O:450:SER:HB3	8:O:453:SER:HB2	1.76	0.66
13:G:196:ASN:O	13:G:199:LYS:HB2	1.96	0.66
1:A:119:LEU:HD13	1:A:162:LEU:HD11	1.75	0.66
1:A:349:SER:O	1:A:353:LYS:HB2	1.94	0.66
1:A:452:ARG:N	1:A:461:TYR:O	2.26	0.66
2:B:434:LEU:O	2:B:437:ALA:HB3	1.94	0.66
5:E:96:PHE:N	5:E:137:TYR:HB2	2.10	0.66
6:F:41:VAL:CG2	6:F:119:LEU:HA	2.25	0.66
6:F:54:HIS:CE1	6:F:68:VAL:HB	2.29	0.66
6:F:267:LEU:CB	13:G:177:TRP:CD1	2.78	0.66
8:O:125:TYR:CE2	8:O:136:LEU:HD12	2.30	0.66
8:O:209:SER:HB2	8:O:210:PRO:HD3	1.77	0.66
8:O:695:ARG:HD3	8:O:740:GLU:CB	2.26	0.66
1:A:192:SER:HA	1:A:197:ILE:HD11	1.76	0.66
2:B:125:MET:HG2	2:B:129:GLN:HB2	1.78	0.66
2:B:435:ASN:OD1	2:B:436:GLN:N	2.29	0.66
3:C:137:GLN:NE2	3:C:168:ASP:HB3	2.10	0.66
4:D:379:PHE:HA	4:D:382:ASN:ND2	2.09	0.66
5:E:36:GLN:O	5:E:40:LEU:HG	1.95	0.66
8:O:198:PHE:HD2	8:O:201:LYS:HB2	1.61	0.66
8:O:660:ASP:CB	8:O:663:GLN:HB3	2.26	0.66
9:P:4:PHE:CD2	10:Q:62:ASN:ND2	2.61	0.66
9:P:28:LYS:O	10:Q:5:PHE:CE2	2.48	0.66
9:P:71:ALA:CA	10:Q:59:GLU:OE1	2.42	0.66
4:D:272:ILE:HG12	4:D:313:SER:HA	1.76	0.66
4:D:305:ILE:CG2	4:D:328:LEU:HB3	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:373:GLN:HE22	13:G:155:ASP:CB	1.72	0.66
5:E:79:GLY:CA	5:E:113:ALA:HB3	2.24	0.66
6:F:51:ILE:HG23	6:F:125:TYR:CD2	2.30	0.66
7:H:11:PHE:O	7:H:15:LYS:N	2.16	0.66
8:O:567:ASN:OD1	11:R:23:GLU:HG2	1.96	0.66
9:P:13:THR:O	10:Q:17:GLU:N	2.19	0.66
9:P:71:ALA:CA	10:Q:59:GLU:HG2	2.25	0.66
12:V:81:PRO:CD	12:V:153:LEU:HD22	2.25	0.66
13:G:142:GLN:O	13:G:154:VAL:HA	1.95	0.66
1:A:134:ILE:HD13	1:A:137:LYS:HD2	1.77	0.66
1:A:195:GLU:HG3	1:A:199:ARG:HH21	1.61	0.66
1:A:211:CYS:HB2	1:A:213:ASP:OD2	1.96	0.66
1:A:236:ASN:HA	1:A:239:LEU:HD12	1.77	0.66
1:A:467:GLN:NE2	2:B:422:THR:N	2.38	0.66
2:B:27:GLU:HG2	2:B:64:LYS:CG	2.25	0.66
3:C:265:GLN:O	3:C:269:THR:HG23	1.96	0.66
5:E:127:VAL:HB	6:F:57:ARG:NH2	2.11	0.66
5:E:331:ILE:CG2	13:G:177:TRP:O	2.43	0.66
9:P:11:LYS:HE2	10:Q:12:ASP:O	1.95	0.66
9:P:31:VAL:O	9:P:35:LEU:N	2.21	0.66
13:G:44:GLY:HA3	13:G:162:ILE:CD1	2.22	0.66
1:A:394:LEU:HD21	1:A:398:VAL:HG23	1.78	0.66
4:D:268:TYR:CD2	4:D:269:LEU:HG	2.30	0.66
6:F:252:PHE:HZ	13:G:165:LYS:HA	1.59	0.66
7:H:117:ALA:O	7:H:121:VAL:HG23	1.94	0.66
8:O:559:LEU:CB	11:R:30:VAL:HG22	2.25	0.66
8:O:728:LYS:HD3	8:O:730:TYR:HE2	1.59	0.66
9:P:37:ARG:HD3	9:P:38:PRO:HD2	1.78	0.66
1:A:97:ILE:HA	1:A:100:LEU:HD12	1.77	0.66
2:B:18:LEU:CB	8:O:648:ARG:CD	2.71	0.66
2:B:18:LEU:O	2:B:20:TYR:CD2	2.49	0.66
2:B:225:LYS:HB2	2:B:230:HIS:CE1	2.30	0.66
3:C:35:LEU:HB2	3:C:39:LEU:CD2	2.26	0.66
4:D:323:GLU:OE2	13:G:125:LEU:HD23	1.94	0.66
5:E:80:LEU:HB2	5:E:114:TYR:CD1	2.31	0.66
5:E:240:LEU:HD13	6:F:163:LEU:HA	1.78	0.66
5:E:242:TRP:O	6:F:229:LYS:CE	2.42	0.66
5:E:332:ASN:CG	13:G:176:GLU:O	2.34	0.66
8:O:282:CYS:SG	8:O:311:MET:HA	2.35	0.66
8:O:568:TYR:HH	11:R:22:PHE:CD1	1.52	0.66
11:R:79:PHE:CE2	11:R:99:ARG:HB2	2.30	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:G:31:ILE:HG13	13:G:63:TYR:CD1	2.31	0.66
13:G:44:GLY:CA	13:G:162:ILE:HD13	2.25	0.66
4:D:127:LEU:HB3	4:D:151:ILE:HD13	1.78	0.66
4:D:219:GLU:HG3	4:D:223:LEU:HD13	1.76	0.66
5:E:66:VAL:CG1	6:F:195:ALA:HB3	2.26	0.66
5:E:81:MET:HG3	5:E:136:TRP:C	2.16	0.66
5:E:280:LEU:CA	5:E:298:ASP:OD2	2.44	0.66
7:H:129:ILE:HG22	7:H:132:ASP:H	1.61	0.66
8:O:504:GLY:N	8:O:532:GLU:OE1	2.28	0.66
11:R:45:CYS:CB	11:R:53:CYS:HB2	2.25	0.66
13:G:66:LEU:HD13	13:G:85:LEU:HD13	1.76	0.66
13:G:92:GLN:O	13:G:95:LYS:HB2	1.95	0.66
2:B:192:THR:HG23	8:O:474:HIS:NE2	2.11	0.66
2:B:265:TYR:OH	2:B:272:ARG:N	2.18	0.66
2:B:278:LYS:HE3	2:B:311:MET:HB2	1.77	0.66
3:C:319:LEU:HB3	3:C:334:ALA:CB	2.26	0.66
4:D:142:ASP:HA	4:D:178:SER:OG	1.96	0.66
5:E:56:LYS:O	5:E:91:ILE:HA	1.96	0.66
8:O:149:LYS:HG2	8:O:152:VAL:HB	1.77	0.66
9:P:12:THR:CG2	10:Q:15:GLU:OE1	2.44	0.66
12:V:74:VAL:HG22	12:V:147:ILE:HG22	1.78	0.66
13:G:140:ILE:HA	13:G:158:ILE:HB	1.76	0.66
5:E:251:SER:O	6:F:223:ALA:CA	2.44	0.66
5:E:327:LEU:HA	5:E:331:ILE:HG12	1.78	0.66
6:F:54:HIS:HB2	6:F:88:GLU:HA	1.77	0.66
8:O:575:ALA:H	11:R:19:LYS:HE3	1.61	0.66
8:O:626:ASP:HB2	8:O:636:SER:CA	2.26	0.66
12:V:81:PRO:HA	12:V:103:PRO:HB3	1.77	0.66
13:G:72:TYR:HE2	13:G:164:LYS:HB3	1.58	0.66
1:A:441:THR:HA	1:A:444:ILE:HD12	1.77	0.65
2:B:7:ASP:OD2	2:B:42:LEU:HD22	1.95	0.65
2:B:225:LYS:HB2	2:B:230:HIS:HE1	1.61	0.65
2:B:297:GLN:CD	11:R:70:VAL:CB	2.61	0.65
6:F:41:VAL:HG22	6:F:42:ALA:H	1.60	0.65
7:H:133:PHE:HA	7:H:136:PHE:CG	2.31	0.65
2:B:14:GLU:O	2:B:18:LEU:HD12	1.96	0.65
2:B:23:ASP:N	8:O:652:LYS:NZ	2.45	0.65
2:B:205:TYR:CE1	2:B:213:LYS:HB2	2.30	0.65
2:B:295:ASP:O	11:R:70:VAL:C	2.34	0.65
2:B:305:ASP:HB3	2:B:308:ILE:CG1	2.26	0.65
3:C:94:ARG:CB	3:C:97:THR:HG22	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:328:LEU:HB2	4:D:330:ILE:HG12	1.78	0.65
5:E:35:GLN:OE1	5:E:36:GLN:NE2	2.29	0.65
6:F:69:ILE:HG23	6:F:124:TRP:CE3	2.31	0.65
7:H:70:GLU:HB3	7:H:102:VAL:HG21	1.77	0.65
8:O:81:GLU:HA	8:O:84:LEU:HD13	1.77	0.65
8:O:458:ILE:HA	8:O:461:LEU:CG	2.26	0.65
9:P:6:MET:HA	9:P:14:ILE:O	1.96	0.65
2:B:5:GLU:HB2	2:B:9:MET:HG2	0.76	0.65
2:B:146:ARG:HG2	2:B:229:PRO:CG	2.27	0.65
3:C:159:LEU:HD21	3:C:195:LEU:HD11	1.77	0.65
4:D:22:LEU:HA	4:D:25:LYS:HD2	1.78	0.65
4:D:100:GLU:HB3	4:D:137:LYS:CG	2.26	0.65
4:D:235:LEU:CA	4:D:300:LEU:HD22	2.23	0.65
5:E:39:ILE:HA	5:E:42:ALA:HB2	1.79	0.65
5:E:77:VAL:HG21	5:E:97:ALA:CB	2.26	0.65
6:F:35:VAL:CG2	6:F:171:VAL:HG22	2.24	0.65
8:O:50:PRO:CB	8:O:53:LEU:HB2	2.27	0.65
8:O:437:ARG:HA	8:O:518:PRO:HB2	1.76	0.65
8:O:568:TYR:CZ	11:R:22:PHE:CG	2.84	0.65
8:O:573:TYR:CB	8:O:650:LYS:HE2	2.27	0.65
9:P:1:MET:HB3	9:P:20:GLU:HB3	1.77	0.65
9:P:99:LEU:HD13	10:Q:84:THR:OG1	1.96	0.65
12:V:78:ASN:ND2	12:V:101:LEU:O	2.28	0.65
2:B:431:LEU:HD21	6:F:296:THR:CA	2.26	0.65
3:C:221:LEU:O	3:C:225:LYS:HG3	1.96	0.65
4:D:263:ILE:HD13	4:D:266:LYS:CE	2.27	0.65
4:D:384:LEU:HD12	4:D:387:LYS:HD2	1.15	0.65
5:E:149:GLY:H	5:E:210:LYS:HD2	1.61	0.65
5:E:242:TRP:CD2	6:F:219:GLU:CD	2.67	0.65
5:E:270:SER:O	5:E:274:GLU:N	2.26	0.65
5:E:294:ARG:CA	5:E:295:LYS:CE	2.50	0.65
8:O:283:HIS:HB2	8:O:314:GLU:HB3	1.78	0.65
8:O:391:LEU:HD12	8:O:394:TYR:HB3	1.78	0.65
8:O:457:MET:O	8:O:461:LEU:HG	1.96	0.65
9:P:4:PHE:CE2	10:Q:66:LYS:HG2	2.30	0.65
9:P:6:MET:HE3	9:P:8:ARG:HD2	1.79	0.65
9:P:64:SER:O	9:P:68:ARG:HA	1.97	0.65
11:R:79:PHE:HD2	11:R:84:ILE:HB	1.61	0.65
2:B:136:LEU:HD21	2:B:151:THR:HB	1.78	0.65
2:B:315:VAL:HA	2:B:318:TYR:CD2	2.32	0.65
2:B:368:ARG:HG3	4:D:353:ASP:CG	2.17	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:420:ARG:CG	5:E:263:THR:HB	2.26	0.65
3:C:249:VAL:O	3:C:254:LYS:N	2.18	0.65
4:D:207:ARG:O	4:D:211:LEU:HG	1.97	0.65
6:F:257:LEU:O	6:F:261:TYR:CB	2.45	0.65
6:F:310:ASN:HA	6:F:314:ASP:CB	2.26	0.65
7:H:93:ILE:HG23	7:H:106:MET:HE3	1.78	0.65
7:H:163:LEU:HB3	7:H:165:ARG:CZ	2.26	0.65
8:O:700:ILE:O	8:O:704:ILE:HG13	1.97	0.65
9:P:44:LEU:HA	9:P:76:GLY:O	1.97	0.65
13:G:112:PRO:HB2	13:G:115:VAL:HG23	1.79	0.65
13:G:165:LYS:CG	13:G:167:ILE:HD13	2.26	0.65
1:A:95:MET:HB3	1:A:319:LEU:CD1	2.26	0.65
1:A:225:ARG:HG3	1:A:237:MET:HE2	1.79	0.65
2:B:21:SER:OG	8:O:652:LYS:NZ	2.29	0.65
2:B:234:MET:O	2:B:237:ILE:HG12	1.97	0.65
2:B:306:PRO:HA	2:B:309:LEU:HG	1.78	0.65
2:B:443:ALA:HB1	3:C:244:TYR:HB3	1.77	0.65
3:C:232:LEU:HD21	3:C:238:VAL:HG22	1.79	0.65
5:E:251:SER:C	5:E:253:SER:HB2	2.15	0.65
5:E:310:THR:O	5:E:313:GLU:HG2	1.97	0.65
6:F:189:THR:HG22	6:F:230:MET:HE1	1.78	0.65
8:O:104:LEU:HD23	10:Q:36:PRO:HB3	1.77	0.65
8:O:243:LEU:HB3	8:O:267:GLN:NE2	2.12	0.65
8:O:333:GLU:HG3	8:O:335:MET:H	1.62	0.65
8:O:496:ASN:OD1	8:O:496:ASN:N	2.25	0.65
8:O:559:LEU:CB	11:R:30:VAL:CG2	2.72	0.65
8:O:610:LEU:HD11	8:O:638:PHE:CE1	2.32	0.65
11:R:41:ASN:N	11:R:49:ILE:HB	2.11	0.65
1:A:118:ALA:O	1:A:122:VAL:HG23	1.96	0.65
2:B:427:TRP:CH2	6:F:293:GLY:CA	2.67	0.65
4:D:211:LEU:O	4:D:222:ARG:HG2	1.96	0.65
4:D:212:SER:O	4:D:254:ARG:NH1	2.29	0.65
4:D:406:GLN:HB3	6:F:236:LYS:CG	2.25	0.65
5:E:264:GLY:O	5:E:268:ASP:N	2.23	0.65
5:E:280:LEU:CB	5:E:298:ASP:OD2	2.44	0.65
5:E:332:ASN:N	13:G:180:GLY:HA3	2.05	0.65
6:F:73:ILE:HG12	6:F:85:ASN:HB3	1.79	0.65
6:F:150:LEU:HD21	6:F:167:VAL:HG13	1.78	0.65
6:F:254:HIS:HE2	13:G:44:GLY:CA	2.08	0.65
8:O:38:ARG:CB	8:O:104:LEU:HD22	2.27	0.65
8:O:52:PRO:HA	8:O:55:GLU:HG2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:101:MET:O	8:O:105:TYR:N	2.30	0.65
8:O:301:LEU:O	8:O:308:LEU:N	2.30	0.65
8:O:688:MET:CG	8:O:731:ILE:HD12	2.26	0.65
9:P:27:LEU:HD22	9:P:44:LEU:O	1.94	0.65
1:A:286:LYS:HE3	1:A:308:LEU:HB3	1.78	0.65
2:B:14:GLU:CA	2:B:18:LEU:CD1	2.74	0.65
2:B:139:LEU:HD13	2:B:148:TRP:HA	1.79	0.65
4:D:208:TYR:HB3	4:D:225:ALA:O	1.97	0.65
5:E:150:ILE:HD12	5:E:210:LYS:HE3	1.78	0.65
7:H:17:LEU:CA	7:H:43:LEU:HD13	2.27	0.65
8:O:541:GLU:OE2	8:O:553:LEU:N	2.27	0.65
8:O:711:PHE:O	8:O:713:PRO:HD3	1.96	0.65
9:P:19:LYS:H	9:P:26:GLU:HG2	1.61	0.65
9:P:64:SER:OG	10:Q:66:LYS:CE	2.45	0.65
2:B:72:LEU:HB2	2:B:95:LEU:HD21	1.78	0.65
2:B:159:TYR:CD1	2:B:162:ARG:HB3	2.32	0.65
2:B:240:CYS:O	2:B:244:MET:N	2.29	0.65
2:B:417:GLY:HA2	2:B:420:ARG:CZ	2.27	0.65
2:B:427:TRP:CD1	5:E:270:SER:N	2.65	0.65
3:C:104:CYS:HA	3:C:107:LEU:CD1	2.24	0.65
3:C:319:LEU:HB3	3:C:334:ALA:HB3	1.79	0.65
4:D:82:LYS:HA	4:D:113:ILE:HD13	1.79	0.65
4:D:103:VAL:O	4:D:106:ILE:HB	1.97	0.65
4:D:191:TYR:HE2	4:D:207:ARG:HG3	1.62	0.65
4:D:315:LEU:HD21	13:G:137:TYR:CG	2.31	0.65
5:E:246:TRP:CZ3	6:F:229:LYS:CA	2.76	0.65
5:E:246:TRP:HA	6:F:219:GLU:OE1	1.96	0.65
8:O:160:ILE:HD13	8:O:163:LEU:HD12	1.77	0.65
13:G:69:LEU:CD1	13:G:73:GLY:HA3	2.13	0.65
13:G:129:GLU:O	13:G:132:ILE:HG13	1.96	0.65
1:A:172:LYS:O	1:A:176:LEU:HG	1.98	0.65
1:A:339:ARG:NH1	1:A:370:TYR:HA	2.07	0.65
2:B:371:ILE:HB	2:B:407:GLN:O	1.97	0.65
4:D:12:LEU:O	4:D:22:LEU:HD11	1.97	0.65
4:D:185:ILE:O	4:D:189:VAL:HG23	1.96	0.65
5:E:33:LYS:HD2	5:E:130:LEU:CB	2.26	0.65
5:E:84:LYS:HG3	5:E:91:ILE:HD12	1.79	0.65
5:E:142:GLY:HA2	5:E:173:THR:OG1	1.96	0.65
5:E:243:ASN:N	6:F:229:LYS:HZ1	1.93	0.65
5:E:315:ILE:HD11	7:H:203:TYR:HB3	1.77	0.65
8:O:508:GLN:HE22	8:O:559:LEU:C	2.00	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:729:GLN:N	11:R:55:GLU:HG3	2.11	0.65
12:V:78:ASN:HA	12:V:151:ILE:CG1	2.27	0.65
13:G:15:PHE:HD1	13:G:30:LEU:HD11	1.61	0.65
13:G:124:ASN:HD21	13:G:126:ARG:NE	1.95	0.65
1:A:440:LEU:HA	1:A:443:LEU:HD12	1.77	0.64
2:B:119:ILE:HB	2:B:128:LEU:HD13	1.79	0.64
2:B:200:LEU:O	2:B:203:GLN:HB3	1.97	0.64
3:C:184:TYR:O	3:C:187:TYR:HB2	1.97	0.64
4:D:133:GLU:HA	4:D:138:GLN:HG2	1.79	0.64
4:D:180:ASN:HB3	4:D:183:LEU:HB3	1.78	0.64
4:D:234:ILE:O	4:D:242:ARG:NE	2.26	0.64
4:D:334:LYS:O	4:D:338:ILE:HG12	1.97	0.64
4:D:352:ILE:HG12	4:D:360:HIS:H	1.61	0.64
5:E:182:ASN:ND2	5:E:202:GLU:OE2	2.30	0.64
6:F:261:TYR:HD1	13:G:170:ILE:HD13	1.47	0.64
7:H:196:GLN:HA	7:H:199:ARG:NE	2.12	0.64
8:O:222:GLU:HG2	8:O:242:ARG:CD	2.26	0.64
8:O:490:PHE:CD1	8:O:539:MET:HB3	2.31	0.64
8:O:492:ASN:OD1	8:O:492:ASN:N	2.22	0.64
9:P:93:PHE:CG	10:Q:55:GLU:HB2	2.30	0.64
13:G:41:TYR:HB2	13:G:161:ASP:CG	2.18	0.64
1:A:194:LYS:HB2	1:A:229:THR:HG23	1.78	0.64
1:A:398:VAL:HG22	1:A:402:TYR:CZ	2.32	0.64
2:B:125:MET:CG	2:B:158:LEU:HD13	2.27	0.64
2:B:136:LEU:HA	2:B:139:LEU:HB2	1.78	0.64
2:B:144:ASN:OD1	2:B:147:LEU:HD11	1.96	0.64
2:B:259:PHE:CE2	2:B:263:LYS:HD2	2.33	0.64
3:C:138:LEU:HD21	3:C:180:HIS:HB3	1.79	0.64
4:D:6:ARG:NH2	4:D:43:GLU:O	2.30	0.64
4:D:165:GLU:O	4:D:168:ILE:HG22	1.97	0.64
4:D:173:LEU:HD11	11:R:76:ASN:ND2	2.12	0.64
4:D:385:LEU:HD22	6:F:234:ARG:HA	1.80	0.64
5:E:128:GLY:HA3	6:F:61:GLN:NE2	2.12	0.64
7:H:50:MET:HE1	7:H:78:GLY:O	1.97	0.64
7:H:90:TYR:CZ	7:H:137:VAL:HA	2.32	0.64
7:H:153:TRP:HA	7:H:165:ARG:CG	2.26	0.64
8:O:327:THR:HA	8:O:342:SER:CB	2.22	0.64
8:O:440:ALA:HB1	8:O:519:LEU:CG	2.27	0.64
8:O:556:LEU:HD12	8:O:559:LEU:HD23	1.79	0.64
8:O:695:ARG:HA	8:O:740:GLU:CA	2.23	0.64
8:O:700:ILE:CB	8:O:718:ILE:HG13	2.24	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:727:ASP:N	11:R:45:CYS:HA	1.72	0.64
11:R:84:ILE:CG2	11:R:101:TRP:HA	2.27	0.64
13:G:18:LEU:HB2	13:G:30:LEU:HD13	1.80	0.64
13:G:87:GLU:HG2	13:G:88:LEU:N	2.13	0.64
1:A:242:ILE:O	1:A:246:VAL:HG23	1.98	0.64
2:B:251:PHE:CA	2:B:254:ALA:HB3	2.24	0.64
3:C:128:ILE:O	3:C:132:GLN:N	2.27	0.64
3:C:228:ILE:HB	3:C:260:TYR:CD2	2.33	0.64
4:D:93:GLN:HB3	4:D:94:PRO:HD3	1.79	0.64
4:D:378:CYS:HA	6:F:231:LEU:HD22	1.80	0.64
5:E:45:TRP:CH2	5:E:164:PRO:HD3	2.31	0.64
8:O:73:HIS:CE1	8:O:154:PRO:HG3	2.33	0.64
8:O:243:LEU:CD2	8:O:267:GLN:HG2	2.24	0.64
8:O:293:ASP:O	8:O:297:MET:HB2	1.97	0.64
8:O:527:PHE:CD2	8:O:529:ILE:HD12	2.32	0.64
12:V:117:TRP:HB2	12:V:136:PHE:HB3	1.79	0.64
13:G:179:ASP:CA	13:G:182:GLU:HG2	2.26	0.64
1:A:193:ILE:HG22	1:A:196:SER:H	1.62	0.64
2:B:72:LEU:O	2:B:76:ILE:HG12	1.97	0.64
3:C:77:LEU:O	3:C:81:VAL:N	2.23	0.64
4:D:241:GLN:OE1	11:R:92:GLN:HG3	1.98	0.64
5:E:258:ASN:HB2	5:E:261:TYR:HB3	1.77	0.64
6:F:51:ILE:HG12	6:F:125:TYR:CD1	2.33	0.64
7:H:37:TYR:CB	7:H:71:LEU:HD22	2.26	0.64
8:O:693:VAL:HG13	8:O:695:ARG:H	1.62	0.64
9:P:29:ARG:CB	9:P:33:GLY:H	2.09	0.64
12:V:84:VAL:HB	12:V:101:LEU:CB	2.26	0.64
13:G:165:LYS:HG3	13:G:167:ILE:CD1	2.26	0.64
1:A:104:ALA:HB1	1:A:115:LEU:HG	1.80	0.64
1:A:175:LEU:HA	1:A:178:LEU:HD12	1.78	0.64
1:A:280:ALA:O	1:A:283:THR:OG1	2.09	0.64
2:B:77:LYS:HA	2:B:80:PHE:CE1	2.33	0.64
2:B:201:GLU:HB3	2:B:214:LEU:HD21	1.79	0.64
2:B:273:ARG:NH1	2:B:277:LEU:HB3	2.13	0.64
3:C:69:PRO:HB2	3:C:110:ALA:HB2	1.79	0.64
3:C:303:TYR:HD1	3:C:326:VAL:HG12	1.62	0.64
4:D:315:LEU:HD22	13:G:134:GLU:HA	1.79	0.64
4:D:323:GLU:CD	13:G:125:LEU:CD2	2.65	0.64
8:O:40:SER:O	8:O:43:TYR:HB3	1.98	0.64
8:O:279:HIS:HB3	8:O:310:HIS:CG	2.33	0.64
8:O:644:PHE:CD1	8:O:650:LYS:HG3	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:P:55:LYS:HA	9:P:59:GLU:OE1	1.98	0.64
1:A:170:THR:HA	1:A:173:LYS:HE3	1.79	0.64
2:B:192:THR:CG2	8:O:459:ASN:ND2	2.60	0.64
2:B:292:ASN:HA	11:R:72:TRP:HZ3	1.63	0.64
2:B:365:PRO:CB	4:D:344:THR:HG22	2.27	0.64
3:C:50:ASP:OD1	3:C:52:GLN:HB3	1.97	0.64
3:C:156:LYS:HA	3:C:159:LEU:CD1	2.27	0.64
4:D:302:ARG:HA	4:D:305:ILE:HD12	1.80	0.64
4:D:358:ILE:HG22	4:D:359:VAL:O	1.98	0.64
5:E:63:LEU:HG	6:F:46:LEU:HB3	1.80	0.64
5:E:84:LYS:HE3	5:E:91:ILE:HD13	1.79	0.64
5:E:241:LEU:CD1	6:F:190:LEU:HB2	2.20	0.64
5:E:255:LEU:HD23	5:E:317:GLY:HA3	1.79	0.64
5:E:294:ARG:NH1	5:E:297:GLU:O	2.29	0.64
5:E:325:ASP:OD1	5:E:329:ASN:ND2	2.29	0.64
6:F:258:ARG:HB2	13:G:161:ASP:O	1.98	0.64
8:O:52:PRO:HD2	8:O:53:LEU:HD12	1.79	0.64
8:O:108:LEU:HG	8:O:112:PHE:CE1	2.33	0.64
8:O:394:TYR:O	8:O:397:ASN:HB2	1.98	0.64
8:O:399:LEU:HB2	8:O:442:ARG:HH22	1.63	0.64
3:C:307:ILE:O	3:C:311:THR:HG23	1.97	0.64
3:C:319:LEU:HB3	3:C:331:PRO:HA	1.80	0.64
4:D:27:ARG:HA	4:D:30:LEU:HD23	1.80	0.64
4:D:219:GLU:HA	4:D:222:ARG:HB2	1.80	0.64
5:E:148:SER:HB2	5:E:210:LYS:CG	2.28	0.64
6:F:289:MET:HA	6:F:292:LEU:HD12	1.80	0.64
7:H:45:LEU:HD13	7:H:81:ILE:HD12	1.79	0.64
8:O:594:VAL:HG13	8:O:598:GLU:CB	2.22	0.64
2:B:382:VAL:HA	2:B:385:VAL:HB	1.80	0.64
3:C:26:GLU:HB3	3:C:96:ALA:CB	2.28	0.64
5:E:285:PHE:HB3	12:V:62:VAL:HG11	1.77	0.64
7:H:48:ASN:OD1	7:H:84:ARG:NH2	2.31	0.64
8:O:17:LEU:HG	8:O:21:ILE:HD12	1.78	0.64
8:O:490:PHE:CD1	8:O:539:MET:CB	2.79	0.64
1:A:125:THR:HG22	1:A:209:LEU:CD2	2.28	0.64
1:A:349:SER:HB3	1:A:356:LEU:HD11	1.80	0.64
2:B:77:LYS:HG3	2:B:80:PHE:CE2	2.33	0.64
2:B:149:PHE:CZ	2:B:196:GLU:HB3	2.33	0.64
2:B:165:TYR:CD1	2:B:168:LEU:HD23	2.33	0.64
2:B:260:GLU:CD	11:R:66:GLU:CG	2.61	0.64
3:C:38:ASN:O	3:C:42:LEU:N	2.20	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:59:LEU:HD22	4:D:95:ARG:CZ	2.28	0.64
4:D:133:GLU:OE2	4:D:139:TYR:N	2.30	0.64
5:E:150:ILE:CD1	5:E:210:LYS:HE3	2.28	0.64
5:E:246:TRP:CH2	6:F:229:LYS:CA	2.67	0.64
5:E:254:SER:HB3	5:E:317:GLY:HA2	1.79	0.64
5:E:279:GLN:CG	5:E:295:LYS:HE3	2.28	0.64
8:O:400:LYS:CB	8:O:447:LEU:HB3	2.28	0.64
8:O:588:PHE:HZ	8:O:599:LEU:HD22	1.62	0.64
8:O:685:VAL:CG2	8:O:725:LEU:CD2	2.76	0.64
9:P:93:PHE:CA	10:Q:16:TYR:OH	2.45	0.64
13:G:23:SER:H	13:G:26:ALA:HB3	1.63	0.64
13:G:71:ALA:O	13:G:163:ARG:HG2	1.97	0.64
1:A:341:GLU:O	1:A:345:ASN:HB2	1.98	0.64
2:B:18:LEU:CD2	2:B:27:GLU:CA	2.71	0.64
2:B:296:SER:CB	11:R:67:GLU:CD	2.66	0.64
3:C:320:GLN:OE1	3:C:330:GLY:HA2	1.98	0.64
4:D:203:GLU:O	4:D:207:ARG:HG2	1.98	0.64
8:O:236:MET:CE	8:O:300:LEU:HD12	2.28	0.64
8:O:398:LEU:HD13	8:O:415:LEU:HD23	1.79	0.64
8:O:400:LYS:CG	8:O:403:ALA:HB2	2.27	0.64
8:O:689:LYS:HA	8:O:743:TYR:CZ	2.32	0.64
9:P:4:PHE:N	9:P:67:ALA:O	2.31	0.64
2:B:73:LYS:HA	2:B:76:ILE:CG1	2.27	0.63
4:D:124:ALA:HB1	4:D:155:TYR:CE2	2.34	0.63
4:D:253:GLU:HA	4:D:256:GLN:CG	2.29	0.63
5:E:68:HIS:HA	5:E:71:SER:OG	1.98	0.63
5:E:252:SER:H	6:F:221:LEU:HA	1.63	0.63
5:E:323:ILE:CB	6:F:221:LEU:HD21	2.25	0.63
6:F:142:VAL:HG12	6:F:149:PRO:CB	2.27	0.63
8:O:379:ARG:NE	8:O:384:VAL:HA	2.13	0.63
8:O:505:ILE:C	11:R:28:ASN:CA	2.62	0.63
9:P:7:ILE:HD13	9:P:27:LEU:O	1.99	0.63
11:R:67:GLU:HG3	11:R:70:VAL:CG1	2.28	0.63
12:V:84:VAL:O	12:V:100:THR:HA	1.98	0.63
1:A:278:THR:O	1:A:313:HIS:N	2.31	0.63
2:B:70:LYS:HG3	2:B:107:TYR:OH	1.98	0.63
2:B:259:PHE:CE2	11:R:67:GLU:N	2.67	0.63
2:B:438:VAL:HG22	6:F:303:ASN:HB2	1.80	0.63
3:C:23:GLN:HA	3:C:26:GLU:CG	2.29	0.63
3:C:367:TYR:HD1	3:C:372:MET:HB3	1.62	0.63
4:D:12:LEU:HA	4:D:15:SER:HB3	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:54:ASN:HD21	4:D:56:ASN:HD22	1.43	0.63
5:E:136:TRP:CZ2	5:E:167:ALA:HA	2.33	0.63
7:H:13:PHE:CE1	7:H:46:LEU:HD22	2.32	0.63
8:O:103:CYS:HB3	10:Q:35:GLY:O	1.97	0.63
8:O:216:GLY:HA3	8:O:269:ARG:NH2	2.13	0.63
8:O:263:ILE:O	8:O:267:GLN:HG3	1.98	0.63
9:P:43:ARG:HG3	9:P:45:TYR:CE2	2.33	0.63
11:R:72:TRP:NE1	11:R:100:GLU:OE2	2.31	0.63
11:R:87:TRP:HB2	11:R:95:PRO:HB3	1.80	0.63
1:A:303:ALA:HA	1:A:306:LEU:HD12	1.81	0.63
1:A:403:THR:HG22	1:A:407:ASN:HD21	1.62	0.63
2:B:19:GLU:C	8:O:652:LYS:HG3	2.19	0.63
2:B:159:TYR:CE2	2:B:164:GLU:HB3	2.33	0.63
2:B:167:LYS:HE3	2:B:168:LEU:HB2	1.80	0.63
3:C:5:LEU:HB3	3:C:42:LEU:CG	2.27	0.63
3:C:179:LYS:HA	3:C:182:LEU:HD12	1.80	0.63
3:C:248:ILE:O	3:C:252:PHE:N	2.22	0.63
4:D:58:SER:O	4:D:62:SER:N	2.21	0.63
4:D:156:LEU:HD22	4:D:197:TYR:CE2	2.33	0.63
5:E:253:SER:N	5:E:320:SER:HB2	2.11	0.63
7:H:196:GLN:HG3	7:H:199:ARG:CZ	2.28	0.63
8:O:391:LEU:HD21	8:O:418:PHE:HB3	1.80	0.63
8:O:442:ARG:O	8:O:446:GLY:N	2.32	0.63
8:O:567:ASN:OD1	11:R:23:GLU:CG	2.47	0.63
9:P:5:LEU:HD23	9:P:73:ALA:HB3	1.80	0.63
9:P:27:LEU:HD21	9:P:44:LEU:HB3	1.78	0.63
13:G:41:TYR:CE2	13:G:160:ARG:HD2	2.34	0.63
1:A:177:LYS:HA	1:A:180:LYS:HD2	1.81	0.63
1:A:271:ARG:HB2	1:A:274:ARG:HA	1.79	0.63
1:A:291:LEU:HD12	1:A:294:LEU:HB3	1.81	0.63
2:B:76:ILE:HG22	2:B:80:PHE:HE1	1.63	0.63
2:B:443:ALA:HB1	3:C:244:TYR:CB	2.29	0.63
3:C:135:THR:HB	3:C:166:MET:HA	1.79	0.63
3:C:186:TYR:HA	3:C:205:TYR:CE1	2.34	0.63
4:D:92:ILE:HD11	4:D:106:ILE:HD13	1.80	0.63
4:D:293:THR:HG22	4:D:299:ILE:HG12	1.80	0.63
5:E:67:MET:SD	6:F:42:ALA:HB1	2.39	0.63
5:E:187:ARG:CD	5:E:224:LEU:HD11	2.29	0.63
6:F:252:PHE:CE2	6:F:257:LEU:HD11	2.32	0.63
6:F:267:LEU:HD22	13:G:177:TRP:HE1	1.60	0.63
8:O:88:HIS:HB2	8:O:184:VAL:HG22	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:174:GLU:HG3	8:O:175:ASP:O	1.99	0.63
8:O:400:LYS:HB2	8:O:447:LEU:HB3	1.81	0.63
9:P:102:VAL:HG21	12:V:170:VAL:HG22	1.79	0.63
11:R:19:LYS:HD3	11:R:25:LYS:NZ	2.13	0.63
12:V:72:SER:OG	12:V:140:LEU:N	2.31	0.63
1:A:385:LYS:HA	1:A:388:LEU:HB2	1.81	0.63
1:A:452:ARG:O	1:A:460:LEU:HD12	1.98	0.63
1:A:469:SER:O	1:A:473:GLU:HG3	1.98	0.63
2:B:14:GLU:OE2	2:B:67:TRP:N	2.32	0.63
2:B:194:LEU:HB3	2:B:224:ILE:HG21	1.80	0.63
2:B:431:LEU:HD23	2:B:434:LEU:HD23	1.81	0.63
3:C:323:ALA:CA	3:C:328:LEU:HB2	2.28	0.63
4:D:23:ALA:HB2	4:D:61:ILE:HD12	1.81	0.63
4:D:169:ASN:HB2	11:R:75:CYS:HB2	1.80	0.63
5:E:59:ALA:O	5:E:63:LEU:HG	1.99	0.63
5:E:246:TRP:CA	6:F:229:LYS:HB2	2.29	0.63
8:O:168:LYS:NZ	8:O:214:GLU:OE2	2.21	0.63
8:O:389:GLU:O	8:O:393:LYS:HG3	1.99	0.63
8:O:489:LYS:O	8:O:492:ASN:N	2.31	0.63
8:O:584:VAL:CG1	8:O:610:LEU:HD13	2.29	0.63
8:O:688:MET:HG2	8:O:731:ILE:HD12	1.81	0.63
8:O:695:ARG:HD3	8:O:740:GLU:HG3	1.81	0.63
9:P:27:LEU:HD21	9:P:44:LEU:C	2.15	0.63
2:B:128:LEU:HA	2:B:131:PHE:HD2	1.63	0.63
3:C:129:ASP:OD1	3:C:132:GLN:NE2	2.31	0.63
4:D:219:GLU:HB2	4:D:222:ARG:NH2	2.13	0.63
4:D:310:LEU:HG	4:D:316:TYR:CE1	2.34	0.63
6:F:254:HIS:HE2	13:G:44:GLY:HA3	1.59	0.63
8:O:181:ILE:HD12	8:O:253:TYR:HD1	1.64	0.63
8:O:326:ALA:HA	8:O:330:LEU:HD12	1.79	0.63
8:O:724:VAL:O	11:R:54:ILE:CD1	2.47	0.63
10:Q:91:LEU:CG	12:V:184:LEU:CG	2.77	0.63
1:A:95:MET:CB	1:A:319:LEU:HD21	2.28	0.63
1:A:268:ALA:HB2	1:A:282:LEU:HD12	1.80	0.63
1:A:394:LEU:HD11	1:A:398:VAL:HA	1.81	0.63
2:B:294:PHE:O	2:B:300:LYS:HD3	1.98	0.63
3:C:68:MET:HB3	3:C:71:VAL:HG21	1.79	0.63
3:C:233:ILE:HD13	3:C:297:GLN:HB2	1.81	0.63
3:C:385:GLU:OE2	3:C:389:ARG:NH1	2.25	0.63
5:E:31:TYR:CZ	5:E:131:GLU:HG3	2.34	0.63
5:E:250:LEU:O	5:E:328:PHE:CZ	2.51	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:322:VAL:HA	6:F:279:PHE:CZ	2.34	0.63
7:H:98:TRP:CD1	7:H:101:THR:HB	2.33	0.63
8:O:70:ARG:O	8:O:74:LYS:HG3	1.99	0.63
8:O:110:THR:CG2	10:Q:28:THR:HA	2.25	0.63
8:O:400:LYS:HA	8:O:447:LEU:O	1.99	0.63
8:O:505:ILE:HB	8:O:533:LEU:CD2	2.28	0.63
8:O:692:LYS:CG	8:O:743:TYR:HB3	2.28	0.63
12:V:128:LEU:O	12:V:134:GLU:HA	1.99	0.63
1:A:170:THR:HA	1:A:173:LYS:CE	2.29	0.63
2:B:392:CYS:HA	2:B:395:ASP:OD2	1.99	0.63
3:C:81:VAL:O	3:C:85:ILE:HG12	1.99	0.63
3:C:206:GLU:HB2	3:C:227:TYR:CE1	2.33	0.63
3:C:228:ILE:HD12	3:C:260:TYR:HD2	1.64	0.63
3:C:300:SER:O	3:C:304:LYS:HG3	1.97	0.63
4:D:87:PHE:HA	4:D:90:GLU:OE1	1.97	0.63
4:D:89:LEU:HD23	4:D:92:ILE:CD1	2.27	0.63
4:D:285:LEU:HA	4:D:289:GLN:OE1	1.99	0.63
5:E:242:TRP:CZ2	6:F:219:GLU:OE2	2.45	0.63
5:E:249:THR:HB	6:F:225:HIS:ND1	2.09	0.63
8:O:36:ASN:OD1	10:Q:39:GLU:HB3	1.98	0.63
8:O:105:TYR:HA	8:O:108:LEU:HB3	1.80	0.63
8:O:149:LYS:HA	8:O:152:VAL:H	1.64	0.63
8:O:562:GLY:HA3	8:O:577:VAL:HG22	1.81	0.63
8:O:629:LYS:NZ	8:O:633:ASP:OD2	2.30	0.63
9:P:16:THR:CA	10:Q:19:SER:H	1.99	0.63
1:A:472:PHE:CE1	6:F:288:LEU:HD22	2.34	0.63
2:B:19:GLU:HB3	8:O:652:LYS:H	0.71	0.63
2:B:73:LYS:O	2:B:76:ILE:HB	1.99	0.63
2:B:201:GLU:OE1	2:B:217:LEU:HD13	1.99	0.63
2:B:243:LYS:O	2:B:246:LEU:HB3	1.99	0.63
2:B:427:TRP:O	2:B:430:GLN:HB2	1.98	0.63
4:D:273:ILE:HG23	4:D:277:GLN:HB2	1.80	0.63
4:D:369:THR:HA	4:D:372:LYS:CD	2.29	0.63
5:E:33:LYS:HE3	5:E:37:GLN:HE22	1.63	0.63
8:O:32:ARG:HH11	10:Q:38:ARG:N	1.97	0.63
8:O:249:ARG:HA	8:O:252:LYS:CG	2.29	0.63
8:O:340:VAL:O	8:O:344:LEU:HG	1.98	0.63
8:O:417:SER:O	8:O:420:THR:HB	1.99	0.63
8:O:505:ILE:HA	11:R:27:TRP:H	1.63	0.63
9:P:4:PHE:CG	10:Q:62:ASN:ND2	2.67	0.63
9:P:15:PHE:CE1	10:Q:58:VAL:HG21	2.30	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Q:84:THR:HG23	12:V:169:LEU:HD13	1.81	0.63
1:A:208:TYR:CB	1:A:213:ASP:HB2	2.29	0.62
1:A:258:VAL:HG13	1:A:285:LEU:HB3	1.80	0.62
1:A:306:LEU:HD13	1:A:329:GLY:N	2.14	0.62
2:B:73:LYS:HZ2	2:B:111:SER:HA	1.63	0.62
2:B:192:THR:CB	8:O:459:ASN:ND2	2.62	0.62
3:C:387:ASP:OD1	6:F:298:THR:HA	1.99	0.62
4:D:219:GLU:CG	4:D:223:LEU:HD13	2.29	0.62
5:E:189:TYR:OH	5:E:222:TYR:HB3	1.99	0.62
5:E:246:TRP:CH2	6:F:228:ILE:O	2.51	0.62
8:O:440:ALA:O	8:O:443:LEU:HB3	1.99	0.62
8:O:483:SER:HB3	8:O:509:ILE:CG2	2.28	0.62
8:O:511:VAL:O	8:O:551:ARG:CB	2.44	0.62
8:O:723:GLU:O	11:R:46:ARG:CA	2.38	0.62
8:O:729:GLN:HG3	11:R:55:GLU:CB	2.29	0.62
1:A:268:ALA:HA	1:A:273:GLU:HG2	1.81	0.62
1:A:414:PHE:CZ	1:A:462:ALA:HB2	2.34	0.62
1:A:466:ASP:HB3	1:A:470:THR:OG1	1.99	0.62
1:A:469:SER:OG	3:C:366:LYS:HG3	1.99	0.62
4:D:60:VAL:HA	4:D:63:ARG:CG	2.28	0.62
4:D:120:TRP:CB	4:D:158:ASP:HB2	2.29	0.62
4:D:272:ILE:CG1	4:D:313:SER:HA	2.29	0.62
5:E:120:TYR:CA	6:F:111:GLN:HB3	2.29	0.62
5:E:248:ASN:C	6:F:222:ILE:HD12	2.19	0.62
5:E:279:GLN:OE1	5:E:299:LYS:HG3	1.98	0.62
5:E:332:ASN:HD22	13:G:179:ASP:HB2	1.47	0.62
6:F:240:GLU:HA	6:F:243:LYS:HE3	1.80	0.62
8:O:544:TYR:CE1	11:R:33:TRP:CE3	2.87	0.62
8:O:644:PHE:CZ	8:O:646:SER:HB2	2.34	0.62
8:O:725:LEU:CD2	11:R:46:ARG:CZ	2.72	0.62
13:G:111:ILE:HG21	13:G:116:LEU:CD2	2.30	0.62
13:G:124:ASN:HD21	13:G:126:ARG:HE	1.47	0.62
1:A:205:GLY:HA2	1:A:208:TYR:HD2	1.64	0.62
1:A:254:VAL:HA	1:A:257:TYR:CD2	2.34	0.62
2:B:20:TYR:H	8:O:652:LYS:HG3	1.64	0.62
2:B:27:GLU:N	2:B:28:PRO:CD	2.60	0.62
2:B:224:ILE:HG21	2:B:228:ILE:HD12	1.80	0.62
2:B:367:THR:CA	2:B:411:LEU:HB2	2.27	0.62
3:C:72:PRO:O	3:C:76:THR:HG23	2.00	0.62
4:D:5:VAL:HG22	4:D:28:GLN:HG2	1.79	0.62
4:D:104:ALA:O	4:D:108:GLN:N	2.23	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:191:TYR:O	4:D:195:LEU:HG	2.00	0.62
4:D:269:LEU:O	4:D:314:LYS:NZ	2.25	0.62
5:E:29:TYR:CZ	5:E:230:LYS:HA	2.34	0.62
6:F:32:ALA:HB1	6:F:182:LEU:HA	1.80	0.62
6:F:168:PHE:HE1	6:F:185:GLU:HB2	1.64	0.62
8:O:109:ASN:OD1	8:O:138:GLU:HG2	1.98	0.62
8:O:361:ASP:OD2	8:O:363:HIS:HB2	1.99	0.62
8:O:385:CYS:CA	8:O:427:ASP:HB3	2.27	0.62
8:O:528:ALA:C	8:O:529:ILE:O	2.37	0.62
8:O:543:PHE:O	8:O:546:GLN:HB2	1.99	0.62
8:O:573:TYR:HA	8:O:649:THR:HG22	1.81	0.62
9:P:32:GLU:HA	9:P:36:LYS:H	1.65	0.62
12:V:73:GLN:CD	12:V:143:ASP:O	2.38	0.62
13:G:37:ALA:HB3	13:G:40:VAL:HB	1.81	0.62
13:G:71:ALA:HA	13:G:163:ARG:HA	1.81	0.62
1:A:206:ASP:O	1:A:209:LEU:HB3	2.00	0.62
1:A:394:LEU:O	1:A:398:VAL:N	2.33	0.62
2:B:153:THR:O	2:B:157:LYS:HG2	2.00	0.62
2:B:205:TYR:CE1	2:B:213:LYS:HE3	2.34	0.62
2:B:259:PHE:CE1	2:B:296:SER:HB2	2.35	0.62
4:D:59:LEU:O	4:D:63:ARG:HG3	1.99	0.62
4:D:124:ALA:O	4:D:128:VAL:HG23	1.99	0.62
5:E:63:LEU:HD21	6:F:46:LEU:N	2.15	0.62
5:E:248:ASN:O	6:F:221:LEU:O	2.02	0.62
5:E:250:LEU:H	6:F:228:ILE:HD12	1.63	0.62
6:F:66:VAL:O	6:F:127:THR:OG1	2.16	0.62
6:F:146:ILE:HD11	6:F:149:PRO:HB3	1.81	0.62
7:H:34:PRO:HG3	7:H:64:ILE:HG22	1.80	0.62
8:O:508:GLN:NE2	8:O:559:LEU:CD1	2.63	0.62
8:O:554:THR:CB	11:R:32:LEU:HD13	1.92	0.62
8:O:571:LYS:HG3	8:O:642:MET:CE	2.29	0.62
8:O:688:MET:HG2	8:O:731:ILE:HB	1.81	0.62
9:P:93:PHE:HE1	10:Q:16:TYR:CD2	2.11	0.62
2:B:14:GLU:CA	2:B:18:LEU:HG	2.30	0.62
3:C:22:THR:CA	3:C:95:TYR:HB3	2.24	0.62
4:D:1:MET:N	4:D:32:LYS:HE2	2.14	0.62
4:D:92:ILE:HG21	4:D:103:VAL:CG1	2.29	0.62
4:D:201:PHE:CA	4:D:232:CYS:HB3	2.29	0.62
4:D:314:LYS:CG	13:G:137:TYR:CE1	2.82	0.62
5:E:108:ASN:HA	5:E:154:THR:CG2	2.29	0.62
5:E:174:ARG:O	5:E:178:ALA:CB	2.48	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:246:TRP:N	6:F:219:GLU:OE1	2.31	0.62
5:E:279:GLN:HG3	5:E:295:LYS:CE	2.30	0.62
6:F:57:ARG:NH2	6:F:89:LEU:O	2.32	0.62
8:O:30:VAL:HG23	8:O:30:VAL:O	2.00	0.62
8:O:32:ARG:NE	10:Q:38:ARG:O	2.33	0.62
8:O:62:LYS:HA	8:O:142:LEU:HD21	1.81	0.62
8:O:118:LEU:HD22	8:O:131:ASP:OD2	2.00	0.62
8:O:340:VAL:O	8:O:343:VAL:HB	2.00	0.62
13:G:62:ALA:HA	13:G:65:GLN:NE2	2.12	0.62
13:G:87:GLU:HG2	13:G:88:LEU:H	1.64	0.62
1:A:95:MET:HB3	1:A:319:LEU:HD21	1.82	0.62
1:A:422:MET:HB2	1:A:458:LYS:O	1.99	0.62
2:B:22:GLU:C	8:O:647:LYS:CE	2.57	0.62
2:B:260:GLU:CG	11:R:66:GLU:OE1	2.48	0.62
2:B:273:ARG:HG3	2:B:277:LEU:HD23	1.82	0.62
2:B:393:ILE:HG22	2:B:398:ILE:HB	1.82	0.62
3:C:186:TYR:HA	3:C:205:TYR:HE1	1.65	0.62
4:D:264:LEU:O	4:D:267:MET:HB2	1.99	0.62
4:D:286:MET:O	4:D:290:LYS:HG3	2.00	0.62
5:E:324:LYS:HA	6:F:221:LEU:HD13	1.79	0.62
7:H:120:LEU:O	7:H:124:ALA:HB3	2.00	0.62
8:O:101:MET:HE2	8:O:139:ILE:HD11	1.80	0.62
8:O:232:CYS:HA	8:O:235:TYR:CB	2.29	0.62
8:O:293:ASP:O	8:O:297:MET:HB3	1.99	0.62
8:O:379:ARG:NE	8:O:381:PRO:HG2	2.14	0.62
11:R:35:TRP:HB3	11:R:36:ASP:N	2.14	0.62
1:A:188:TYR:HA	1:A:191:ASN:ND2	2.15	0.62
1:A:251:TRP:CH2	1:A:291:LEU:HD23	2.35	0.62
3:C:150:LEU:O	3:C:153:LYS:NZ	2.25	0.62
4:D:373:GLN:HE22	13:G:155:ASP:HB3	0.80	0.62
6:F:291:TYR:CE2	6:F:295:ILE:HD11	2.34	0.62
8:O:322:GLU:HB3	8:O:350:PHE:HZ	1.64	0.62
8:O:344:LEU:HD22	8:O:414:ARG:NH1	2.14	0.62
8:O:394:TYR:O	8:O:398:LEU:HG	1.99	0.62
8:O:577:VAL:HB	8:O:581:GLN:HB3	1.82	0.62
8:O:610:LEU:HD21	8:O:638:PHE:CZ	2.35	0.62
8:O:644:PHE:CE1	8:O:650:LYS:HA	2.35	0.62
8:O:728:LYS:HD3	8:O:730:TYR:CE2	2.34	0.62
13:G:69:LEU:HD11	13:G:77:ASP:HB2	1.81	0.62
13:G:188:ILE:O	13:G:192:VAL:HG23	1.99	0.62
2:B:85:PHE:CZ	2:B:123:LYS:HE2	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:169:GLN:O	2:B:173:ARG:NE	2.33	0.62
2:B:299:ALA:HA	2:B:302:TYR:HB2	1.80	0.62
2:B:317:ALA:HB3	2:B:325:GLU:OE2	1.99	0.62
3:C:5:LEU:HD12	3:C:38:ASN:CB	2.29	0.62
3:C:15:LEU:CB	3:C:24:LEU:HD22	2.30	0.62
3:C:331:PRO:O	3:C:335:GLU:N	2.33	0.62
3:C:337:TYR:HA	3:C:340:HIS:HD2	1.65	0.62
4:D:189:VAL:O	4:D:193:ARG:HG3	2.00	0.62
4:D:240:GLN:O	4:D:243:SER:OG	2.17	0.62
4:D:375:GLN:HE21	6:F:224:GLN:HA	1.64	0.62
4:D:384:LEU:C	4:D:387:LYS:HB2	2.20	0.62
4:D:388:ILE:CG2	4:D:393:PRO:O	2.48	0.62
5:E:116:TYR:CD2	5:E:117:MET:HG3	2.35	0.62
6:F:248:GLY:O	6:F:250:VAL:CA	2.48	0.62
8:O:110:THR:HG1	10:Q:28:THR:HG23	1.57	0.62
8:O:168:LYS:HD2	8:O:214:GLU:HG2	1.82	0.62
8:O:255:HIS:HB3	8:O:258:SER:OG	2.00	0.62
8:O:389:GLU:HA	8:O:392:ALA:HB3	1.82	0.62
8:O:544:TYR:CE2	8:O:552:LYS:HG2	2.32	0.62
1:A:201:HIS:HB2	1:A:224:ALA:HB2	1.81	0.62
2:B:14:GLU:CA	2:B:18:LEU:HD12	2.30	0.62
4:D:105:SER:O	4:D:108:GLN:HB2	2.00	0.62
4:D:145:LEU:HB2	4:D:174:LEU:HD12	1.81	0.62
4:D:234:ILE:HA	4:D:267:MET:CE	2.29	0.62
4:D:315:LEU:HB3	13:G:134:GLU:OE2	1.98	0.62
5:E:80:LEU:HD21	5:E:133:ALA:HB2	1.82	0.62
5:E:269:LEU:O	5:E:273:LEU:N	2.26	0.62
7:H:154:GLN:CG	7:H:163:LEU:HD12	2.29	0.62
7:H:196:GLN:HA	7:H:199:ARG:HE	1.64	0.62
8:O:395:CYS:HA	8:O:398:LEU:HD12	1.80	0.62
8:O:722:ILE:HG21	8:O:741:TYR:CD2	2.34	0.62
11:R:44:ILE:CD1	11:R:83:CYS:HA	2.30	0.62
12:V:129:LEU:O	12:V:152:THR:OG1	2.10	0.62
1:A:130:MET:O	1:A:134:ILE:HG12	2.00	0.62
1:A:238:CYS:CB	1:A:261:ALA:HB2	2.30	0.62
2:B:295:ASP:HA	2:B:300:LYS:HD2	1.82	0.62
4:D:31:GLU:O	4:D:35:GLN:HG2	2.00	0.62
5:E:43:LYS:HE3	5:E:46:THR:HG21	1.82	0.62
5:E:82:LEU:HB2	5:E:94:ASP:CB	2.30	0.62
5:E:119:ALA:CB	6:F:111:GLN:HG2	2.29	0.62
5:E:136:TRP:CH2	5:E:147:LEU:HG	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:323:ILE:HG23	13:G:188:ILE:CD1	2.21	0.62
6:F:307:ASN:HA	6:F:310:ASN:HD22	1.63	0.62
8:O:451:MET:SD	8:O:451:MET:N	2.71	0.62
8:O:676:ARG:HH21	8:O:710:ARG:CD	2.12	0.62
9:P:20:GLU:HA	9:P:57:LEU:HB2	1.81	0.62
1:A:91:TYR:O	1:A:96:ARG:NE	2.24	0.61
1:A:299:TYR:HA	1:A:302:ALA:HB3	1.82	0.61
1:A:326:ALA:HB1	1:A:359:GLU:HG2	1.81	0.61
1:A:353:LYS:HA	1:A:356:LEU:HB2	1.81	0.61
2:B:259:PHE:CD2	11:R:66:GLU:HB2	2.35	0.61
2:B:314:LEU:HD22	2:B:326:PHE:CA	2.27	0.61
2:B:323:ILE:HG12	2:B:354:ILE:HD13	1.82	0.61
2:B:421:TYR:CD1	6:F:289:MET:CE	2.83	0.61
2:B:427:TRP:CG	5:E:270:SER:HB2	2.34	0.61
2:B:441:LYS:HD2	6:F:306:VAL:HB	1.81	0.61
3:C:70:SER:CB	3:C:114:ARG:HD2	2.30	0.61
3:C:311:THR:HA	3:C:360:PHE:CE1	2.35	0.61
4:D:5:VAL:HG22	4:D:32:LYS:HD3	1.81	0.61
4:D:125:GLN:HA	4:D:128:VAL:HG23	1.81	0.61
5:E:102:GLY:O	5:E:106:ARG:HG3	2.00	0.61
5:E:129:ARG:HG3	6:F:57:ARG:NH1	2.15	0.61
5:E:142:GLY:H	5:E:172:PRO:HG2	1.65	0.61
5:E:294:ARG:CA	5:E:295:LYS:NZ	2.40	0.61
5:E:298:ASP:OD1	5:E:299:LYS:N	2.33	0.61
6:F:39:VAL:HG13	6:F:122:LEU:HD22	1.82	0.61
6:F:46:LEU:HD12	6:F:49:LEU:HD12	1.82	0.61
6:F:108:LYS:HG3	6:F:112:PHE:HE1	1.63	0.61
7:H:85:ASP:O	7:H:89:ILE:HG13	2.00	0.61
7:H:103:GLN:HA	7:H:106:MET:CG	2.30	0.61
8:O:1:MET:HB3	8:O:6:ARG:HD3	1.82	0.61
8:O:65:LEU:HD13	8:O:142:LEU:HG	1.81	0.61
8:O:344:LEU:HD21	8:O:418:PHE:HE1	1.65	0.61
8:O:576:MET:O	8:O:654:THR:HG22	2.00	0.61
8:O:718:ILE:HG23	8:O:719:LYS:N	2.14	0.61
12:V:126:ASP:O	12:V:128:LEU:HG	2.00	0.61
13:G:23:SER:HB2	13:G:55:LEU:HD21	1.82	0.61
1:A:299:TYR:O	1:A:332:CYS:HB3	2.00	0.61
1:A:444:ILE:HG21	3:C:313:THR:HA	1.81	0.61
1:A:454:ASP:HA	3:C:315:LEU:HB3	1.82	0.61
2:B:239:GLU:OE2	2:B:272:ARG:NH1	2.33	0.61
3:C:202:LEU:HD22	3:C:235:LEU:HD11	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:115:GLU:O	4:D:118:GLU:HG3	2.00	0.61
5:E:279:GLN:HB2	5:E:299:LYS:HD2	1.82	0.61
6:F:101:ASP:HB3	6:F:104:TYR:HB3	1.81	0.61
8:O:243:LEU:HD13	8:O:267:GLN:HG2	1.83	0.61
8:O:644:PHE:CD1	8:O:650:LYS:HA	2.35	0.61
13:G:96:LEU:HA	13:G:99:LEU:HG	1.83	0.61
1:A:342:LEU:HA	1:A:346:VAL:HB	1.81	0.61
2:B:18:LEU:CD2	2:B:27:GLU:HB3	2.15	0.61
2:B:38:ASN:O	2:B:42:LEU:HB2	2.00	0.61
2:B:193:GLN:OE1	2:B:228:ILE:HA	2.01	0.61
2:B:393:ILE:HG22	2:B:398:ILE:CB	2.30	0.61
2:B:427:TRP:HA	5:E:270:SER:HB2	1.78	0.61
3:C:135:THR:OG1	3:C:167:MET:N	2.27	0.61
4:D:241:GLN:HB2	4:D:347:ARG:NH2	2.14	0.61
5:E:28:ILE:CG2	5:E:229:PHE:HB2	2.29	0.61
5:E:57:ILE:HD11	5:E:92:ILE:HD12	1.82	0.61
5:E:246:TRP:HA	6:F:219:GLU:CG	2.30	0.61
5:E:272:LYS:HE2	5:E:309:LYS:NZ	2.15	0.61
6:F:46:LEU:HA	6:F:49:LEU:CG	2.30	0.61
6:F:168:PHE:HA	6:F:184:ALA:O	1.99	0.61
6:F:245:SER:HB3	6:F:253:ASN:HB3	1.81	0.61
7:H:43:LEU:HD23	7:H:46:LEU:CD1	2.30	0.61
7:H:162:VAL:O	7:H:164:PRO:HD3	2.00	0.61
8:O:230:SER:O	8:O:234:GLN:HB2	2.00	0.61
8:O:237:GLU:OE2	8:O:292:ASN:ND2	2.26	0.61
11:R:49:ILE:O	11:R:52:LEU:HD23	2.00	0.61
11:R:80:HIS:HB2	11:R:83:CYS:SG	2.40	0.61
12:V:65:SER:HB2	12:V:91:PHE:CD1	2.34	0.61
1:A:235:ILE:O	1:A:239:LEU:HG	2.00	0.61
1:A:277:GLN:HE21	1:A:281:ILE:HB	1.65	0.61
1:A:379:LYS:O	1:A:383:GLU:HG3	2.00	0.61
2:B:132:TYR:CE1	2:B:154:LYS:HB2	2.36	0.61
2:B:368:ARG:HB2	2:B:410:GLU:HA	1.81	0.61
3:C:22:THR:HG22	3:C:95:TYR:HA	1.82	0.61
3:C:275:LEU:O	3:C:279:VAL:HG23	2.00	0.61
4:D:165:GLU:HG2	11:R:75:CYS:HB3	1.81	0.61
4:D:208:TYR:HD1	4:D:225:ALA:HA	1.66	0.61
4:D:247:ALA:O	4:D:251:LYS:HG3	1.98	0.61
4:D:261:TYR:CD1	4:D:264:LEU:HD23	2.36	0.61
4:D:310:LEU:HG	4:D:316:TYR:HE1	1.66	0.61
5:E:32:ASP:OD1	5:E:34:LYS:HB3	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:63:LEU:HD22	6:F:44:HIS:HD2	1.65	0.61
6:F:279:PHE:O	6:F:282:GLN:HB3	1.99	0.61
7:H:86:PHE:HB2	7:H:87:PRO:HD3	1.82	0.61
7:H:194:GLU:HB2	7:H:197:LEU:CB	2.29	0.61
8:O:220:LYS:HD2	8:O:270:MET:HA	1.83	0.61
8:O:512:LEU:O	8:O:551:ARG:HG2	1.99	0.61
8:O:696:HIS:HA	8:O:722:ILE:HD11	1.82	0.61
12:V:76:PHE:HA	12:V:149:ALA:HB3	1.82	0.61
1:A:418:VAL:O	1:A:462:ALA:N	2.32	0.61
3:C:344:ASP:HB2	3:C:346:GLU:CG	2.30	0.61
4:D:99:PHE:O	4:D:103:VAL:HG23	2.00	0.61
4:D:301:ASP:O	4:D:305:ILE:HG13	2.00	0.61
4:D:305:ILE:HG22	4:D:328:LEU:HB3	1.81	0.61
5:E:51:TYR:CZ	5:E:88:GLU:HG2	2.34	0.61
5:E:121:ILE:HG21	5:E:132:ASN:HA	1.81	0.61
6:F:81:ILE:O	6:F:188:TYR:HA	2.01	0.61
6:F:100:ILE:N	6:F:141:GLN:OE1	2.29	0.61
8:O:52:PRO:HB2	8:O:56:ARG:NH2	2.14	0.61
8:O:294:MET:HG3	8:O:357:VAL:HG11	1.83	0.61
8:O:511:VAL:HG13	11:R:33:TRP:CE2	2.35	0.61
13:G:100:THR:HG22	13:G:120:LEU:HD21	1.83	0.61
13:G:167:ILE:O	13:G:171:VAL:HG12	2.00	0.61
1:A:96:ARG:O	1:A:100:LEU:HG	2.01	0.61
1:A:194:LYS:HB3	1:A:227:TYR:O	2.00	0.61
2:B:56:LYS:HG3	2:B:59:GLU:OE1	2.00	0.61
2:B:125:MET:CG	2:B:129:GLN:HB2	2.31	0.61
3:C:13:ARG:HA	3:C:49:LEU:HD11	1.82	0.61
3:C:80:GLN:HA	3:C:83:LEU:CD1	2.30	0.61
3:C:247:GLN:O	3:C:251:ARG:HG2	1.99	0.61
4:D:77:PRO:HB2	4:D:80:THR:CB	2.28	0.61
4:D:88:THR:O	4:D:92:ILE:HG13	2.00	0.61
4:D:319:ILE:CD1	4:D:323:GLU:HG3	2.31	0.61
4:D:342:MET:C	4:D:348:MET:HB3	2.21	0.61
5:E:68:HIS:CG	5:E:97:ALA:HB3	2.36	0.61
5:E:123:ASN:HD22	6:F:107:THR:HG21	1.65	0.61
7:H:42:ALA:O	7:H:46:LEU:HG	2.00	0.61
7:H:57:TRP:CZ3	7:H:65:LYS:HD3	2.36	0.61
8:O:117:LYS:HD3	8:O:136:LEU:HB3	1.82	0.61
8:O:117:LYS:H	8:O:120:GLU:HG2	1.65	0.61
8:O:569:LEU:HD22	8:O:571:LYS:HZ3	1.66	0.61
8:O:727:ASP:O	11:R:55:GLU:CA	2.41	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:128:VAL:HG13	1:A:131:TYR:CD2	2.35	0.61
2:B:13:GLU:HB3	2:B:66:GLU:HB2	1.82	0.61
2:B:431:LEU:HD21	6:F:296:THR:CB	2.30	0.61
3:C:395:GLN:O	3:C:399:VAL:HG23	1.99	0.61
4:D:2:ALA:O	4:D:6:ARG:HG3	2.01	0.61
4:D:5:VAL:HG13	4:D:28:GLN:HG2	1.83	0.61
4:D:120:TRP:CZ3	4:D:154:LEU:HD23	2.35	0.61
4:D:195:LEU:O	4:D:199:ARG:N	2.33	0.61
4:D:253:GLU:HA	4:D:256:GLN:HG3	1.83	0.61
4:D:293:THR:OG1	4:D:295:ASP:OD1	2.09	0.61
5:E:51:TYR:CE2	5:E:88:GLU:HA	2.36	0.61
5:E:115:GLU:HA	5:E:118:ALA:CB	2.30	0.61
5:E:253:SER:HA	5:E:324:LYS:HZ3	1.66	0.61
6:F:124:TRP:HZ2	6:F:135:ASP:HA	1.65	0.61
8:O:59:THR:OG1	8:O:134:GLU:HA	2.00	0.61
8:O:113:ILE:HB	8:O:119:THR:CG2	2.30	0.61
8:O:176:PRO:HD2	8:O:181:ILE:CG2	2.30	0.61
8:O:395:CYS:HA	8:O:398:LEU:CB	2.24	0.61
8:O:490:PHE:CE2	8:O:494:ILE:HG12	2.30	0.61
8:O:526:THR:OG1	8:O:604:GLN:NE2	2.34	0.61
1:A:185:LEU:HD13	1:A:204:LEU:HD22	1.82	0.61
1:A:202:ASP:HA	1:A:221:TYR:CE1	2.35	0.61
1:A:418:VAL:HA	1:A:462:ALA:HB3	1.83	0.61
1:A:418:VAL:N	2:B:401:ARG:HB3	2.16	0.61
2:B:100:ARG:HH21	2:B:144:ASN:HD21	1.47	0.61
2:B:167:LYS:O	2:B:170:LYS:HG3	2.01	0.61
3:C:139:THR:HG22	3:C:142:HIS:CE1	2.35	0.61
3:C:248:ILE:HB	3:C:252:PHE:HD2	1.66	0.61
3:C:260:TYR:HA	3:C:263:LEU:CB	2.31	0.61
4:D:28:GLN:HG3	4:D:32:LYS:HB3	1.83	0.61
4:D:140:ASN:O	4:D:144:LYS:N	2.18	0.61
5:E:115:GLU:HA	5:E:118:ALA:HB3	1.83	0.61
5:E:242:TRP:CD2	6:F:219:GLU:OE1	2.54	0.61
5:E:280:LEU:CD2	5:E:298:ASP:OD2	2.48	0.61
6:F:118:GLU:O	6:F:119:LEU:HD23	2.01	0.61
8:O:150:LEU:O	8:O:155:LEU:HD23	1.99	0.61
8:O:476:MET:HB2	8:O:517:TRP:HZ3	1.64	0.61
8:O:556:LEU:O	11:R:30:VAL:HG21	2.01	0.61
8:O:569:LEU:HD11	11:R:19:LYS:HB2	1.83	0.61
8:O:593:THR:HA	8:O:638:PHE:O	2.01	0.61
8:O:728:LYS:HB3	8:O:730:TYR:CE2	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:P:43:ARG:N	9:P:78:ALA:O	2.24	0.61
9:P:97:PRO:HD2	10:Q:53:ILE:HD11	1.82	0.61
10:Q:91:LEU:CD2	12:V:184:LEU:HD22	2.30	0.61
12:V:117:TRP:CB	12:V:136:PHE:HB3	2.30	0.61
1:A:142:THR:O	1:A:146:GLN:N	2.23	0.61
1:A:293:GLU:HB3	1:A:298:LYS:HB2	1.83	0.61
2:B:63:GLU:HA	2:B:69:PHE:HE2	1.65	0.61
3:C:233:ILE:HD13	3:C:297:GLN:CB	2.31	0.61
4:D:317:ASN:O	4:D:361:PHE:N	2.32	0.61
5:E:54:TYR:O	5:E:224:LEU:HD23	2.01	0.61
5:E:65:MET:N	5:E:96:PHE:HA	2.16	0.61
5:E:80:LEU:CD1	5:E:133:ALA:HB1	2.30	0.61
6:F:203:VAL:HA	6:F:206:MET:HG3	1.81	0.61
7:H:103:GLN:HE21	7:H:107:GLU:HG3	1.64	0.61
8:O:392:ALA:HB1	8:O:435:TYR:CD1	2.36	0.61
8:O:482:VAL:HG12	8:O:486:LEU:HG	1.82	0.61
8:O:554:THR:HG22	8:O:555:TRP:H	1.65	0.61
8:O:567:ASN:H	11:R:19:LYS:N	1.99	0.61
8:O:594:VAL:O	8:O:637:SER:HA	2.01	0.61
1:A:177:LYS:O	1:A:181:LEU:HG	2.01	0.61
1:A:353:LYS:HD3	1:A:356:LEU:HB2	1.83	0.61
1:A:433:VAL:CG2	1:A:436:LEU:HD23	2.25	0.61
1:A:504:SER:HA	3:C:215:ALA:CB	2.31	0.61
2:B:303:LYS:O	2:B:309:LEU:HB3	2.00	0.61
4:D:262:GLY:HA2	4:D:265:GLU:HB3	1.83	0.61
5:E:63:LEU:CG	6:F:46:LEU:HB3	2.31	0.61
5:E:250:LEU:HD21	5:E:323:ILE:CG2	2.30	0.61
5:E:250:LEU:C	6:F:228:ILE:HD12	2.14	0.61
5:E:285:PHE:CD2	12:V:62:VAL:CG2	2.82	0.61
6:F:195:ALA:HA	6:F:198:ILE:HD12	1.83	0.61
8:O:278:LEU:HD22	8:O:301:LEU:CD1	2.31	0.61
8:O:419:ILE:HA	8:O:422:PHE:HB3	1.82	0.61
9:P:69:PRO:HA	10:Q:62:ASN:HD22	0.79	0.61
12:V:72:SER:C	12:V:140:LEU:HB2	2.21	0.61
13:G:19:ALA:CB	13:G:52:VAL:HG13	2.31	0.61
13:G:99:LEU:HD22	13:G:160:ARG:NE	2.15	0.61
13:G:162:ILE:HG22	13:G:163:ARG:O	2.01	0.61
13:G:179:ASP:O	13:G:182:GLU:HG2	2.00	0.61
1:A:255:LEU:CD1	1:A:289:ALA:HA	2.31	0.60
1:A:385:LYS:HA	1:A:388:LEU:HD12	1.82	0.60
1:A:411:ILE:O	1:A:415:SER:OG	2.11	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:16:SER:HB3	3:C:49:LEU:HD13	1.83	0.60
4:D:6:ARG:CZ	4:D:47:ALA:HB2	2.31	0.60
4:D:23:ALA:HB2	4:D:61:ILE:CD1	2.30	0.60
4:D:36:LEU:HD22	4:D:40:GLU:HG3	1.83	0.60
4:D:133:GLU:OE2	4:D:144:LYS:HD3	2.01	0.60
5:E:188:THR:HA	5:E:221:TYR:CA	2.31	0.60
5:E:188:THR:HA	5:E:221:TYR:CB	2.30	0.60
5:E:189:TYR:CE1	5:E:196:PRO:HD2	2.36	0.60
5:E:294:ARG:HD2	5:E:294:ARG:O	2.01	0.60
6:F:69:ILE:HG21	6:F:100:ILE:HD11	1.82	0.60
6:F:121:PHE:CE2	6:F:142:VAL:HG13	2.36	0.60
7:H:107:GLU:O	7:H:110:ARG:HG2	2.01	0.60
7:H:121:VAL:HG22	7:H:128:ILE:CD1	2.31	0.60
8:O:177:ASN:HB2	8:O:180:VAL:CG2	2.31	0.60
8:O:535:LYS:HA	8:O:538:GLN:HG2	1.82	0.60
9:P:45:TYR:CE2	9:P:50:LEU:HA	2.36	0.60
10:Q:91:LEU:HD22	12:V:180:ILE:CG2	2.30	0.60
12:V:74:VAL:HG23	12:V:140:LEU:CB	2.31	0.60
12:V:130:VAL:CG1	12:V:136:PHE:HB2	2.31	0.60
1:A:94:LEU:CB	1:A:247:TYR:HB3	2.31	0.60
1:A:131:TYR:CE2	1:A:164:THR:HG22	2.36	0.60
2:B:175:LEU:CD1	2:B:197:ILE:HD11	2.31	0.60
2:B:370:HIS:CB	2:B:373:PHE:HB2	2.31	0.60
2:B:424:LEU:HD13	6:F:289:MET:HE2	1.72	0.60
3:C:46:LEU:HB3	3:C:58:VAL:CG2	2.28	0.60
3:C:102:GLY:O	3:C:106:GLN:HG2	2.01	0.60
4:D:262:GLY:O	4:D:266:LYS:N	2.22	0.60
5:E:68:HIS:HB3	5:E:97:ALA:HB3	1.81	0.60
5:E:146:TRP:CZ2	5:E:206:ILE:HD12	2.36	0.60
6:F:31:MET:CE	6:F:136:ILE:HG12	2.30	0.60
6:F:254:HIS:HB3	13:G:162:ILE:HG12	1.84	0.60
7:H:60:ILE:O	7:H:65:LYS:HE3	2.01	0.60
8:O:373:THR:HA	8:O:376:VAL:HB	1.82	0.60
8:O:492:ASN:HA	8:O:495:LYS:HD3	1.82	0.60
8:O:564:VAL:H	11:R:25:LYS:NZ	1.98	0.60
8:O:566:MET:CA	11:R:18:LYS:CA	2.69	0.60
8:O:627:SER:HB2	8:O:629:LYS:HG3	1.83	0.60
8:O:721:CYS:O	11:R:46:ARG:HD2	2.01	0.60
12:V:111:SER:HB3	12:V:138:PRO:HB3	1.83	0.60
2:B:18:LEU:CD2	2:B:27:GLU:CB	2.59	0.60
2:B:37:TYR:HB3	2:B:53:SER:HB3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:385:VAL:O	2:B:389:LEU:HG	2.01	0.60
3:C:315:LEU:O	3:C:359:SER:HA	2.01	0.60
4:D:27:ARG:CA	4:D:30:LEU:HB3	2.29	0.60
4:D:86:HIS:O	4:D:90:GLU:HG3	2.02	0.60
4:D:341:GLN:O	4:D:345:GLU:N	2.34	0.60
5:E:105:THR:HG22	5:E:210:LYS:NZ	2.16	0.60
5:E:200:PRO:HD2	5:E:222:TYR:HB2	1.83	0.60
5:E:250:LEU:HD21	5:E:323:ILE:HG22	1.80	0.60
6:F:54:HIS:HB2	6:F:88:GLU:HG2	1.83	0.60
8:O:145:ASP:OD1	8:O:148:ARG:NH1	2.33	0.60
8:O:505:ILE:CD1	8:O:533:LEU:HD21	2.26	0.60
8:O:552:LYS:HE2	11:R:35:TRP:HE1	1.65	0.60
8:O:608:LYS:H	8:O:608:LYS:HD2	1.65	0.60
9:P:99:LEU:CA	9:P:103:MET:CG	2.77	0.60
9:P:100:PRO:CD	10:Q:85:GLU:HA	2.25	0.60
1:A:224:ALA:HA	1:A:227:TYR:CD2	2.37	0.60
1:A:243:LYS:HE3	1:A:247:TYR:HE2	1.66	0.60
1:A:255:LEU:HD21	1:A:289:ALA:N	2.15	0.60
2:B:107:TYR:O	2:B:110:LYS:HG3	2.02	0.60
2:B:165:TYR:CZ	2:B:204:MET:HB2	2.36	0.60
2:B:212:LYS:HG2	2:B:215:LYS:CE	2.31	0.60
2:B:365:PRO:HG3	4:D:344:THR:HG21	1.83	0.60
3:C:33:GLU:O	3:C:64:VAL:HG13	2.02	0.60
3:C:163:ASP:OD1	3:C:192:TYR:OH	2.11	0.60
3:C:339:LEU:HG	3:C:343:GLU:OE1	2.02	0.60
3:C:340:HIS:CA	3:C:343:GLU:HB3	2.31	0.60
4:D:183:LEU:HA	4:D:186:HIS:HD2	1.65	0.60
4:D:260:ALA:HB1	4:D:263:ILE:HB	1.82	0.60
8:O:32:ARG:HA	8:O:35:TRP:CD2	2.36	0.60
8:O:483:SER:HB3	8:O:509:ILE:HG23	1.83	0.60
8:O:535:LYS:HG3	8:O:538:GLN:HE21	1.66	0.60
8:O:681:GLN:OE1	8:O:724:VAL:HG11	2.00	0.60
9:P:27:LEU:HD11	9:P:75:VAL:CG1	2.31	0.60
2:B:165:TYR:OH	2:B:200:LEU:O	2.14	0.60
2:B:302:TYR:HE1	11:R:35:TRP:CH2	2.20	0.60
3:C:13:ARG:HG2	3:C:49:LEU:HD12	1.82	0.60
4:D:208:TYR:CB	4:D:229:ALA:HB2	2.29	0.60
4:D:320:THR:O	4:D:324:LEU:N	2.20	0.60
5:E:170:ILE:HD11	5:E:183:LEU:CG	2.31	0.60
6:F:129:GLY:O	6:F:153:LYS:HD3	2.02	0.60
6:F:189:THR:CG2	6:F:230:MET:CE	2.79	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:254:HIS:CE1	13:G:44:GLY:CA	2.85	0.60
7:H:86:PHE:HA	7:H:89:ILE:HD12	1.83	0.60
13:G:11:LEU:HB3	13:G:15:PHE:CE2	2.37	0.60
13:G:101:ILE:HG22	13:G:116:LEU:HD12	1.82	0.60
1:A:299:TYR:HB2	1:A:336:THR:HG21	1.82	0.60
2:B:256:THR:HB	11:R:65:SER:N	2.14	0.60
2:B:441:LYS:NZ	6:F:303:ASN:ND2	2.50	0.60
3:C:105:HIS:NE2	3:C:140:SER:HB2	2.16	0.60
4:D:9:LEU:CD2	4:D:26:TYR:HA	2.26	0.60
4:D:317:ASN:ND2	4:D:363:THR:HA	2.16	0.60
5:E:312:ILE:HG13	7:H:207:LEU:CD1	2.31	0.60
5:E:315:ILE:HD13	7:H:204:VAL:CG2	2.31	0.60
6:F:193:GLU:HB3	6:F:196:GLU:CB	2.31	0.60
7:H:32:ALA:HB3	7:H:37:TYR:HE1	1.66	0.60
8:O:9:ASP:OD1	8:O:44:ALA:HB1	2.01	0.60
8:O:32:ARG:HG3	10:Q:38:ARG:CB	2.24	0.60
8:O:62:LYS:HE2	8:O:131:ASP:O	2.01	0.60
8:O:227:LEU:HD22	8:O:274:HIS:CE1	2.37	0.60
8:O:278:LEU:HD22	8:O:301:LEU:HD21	1.83	0.60
8:O:281:GLU:HA	8:O:284:ASN:ND2	2.16	0.60
8:O:302:ARG:HA	8:O:308:LEU:CG	2.31	0.60
8:O:373:THR:O	8:O:376:VAL:HB	2.01	0.60
8:O:612:LYS:HE2	8:O:657:MET:N	2.15	0.60
9:P:2:ASP:HB3	10:Q:66:LYS:NZ	2.16	0.60
9:P:3:VAL:HB	9:P:67:ALA:CB	2.31	0.60
12:V:60:ARG:HD2	12:V:65:SER:H	1.67	0.60
13:G:141:ILE:CG2	13:G:154:VAL:HG22	2.30	0.60
13:G:146:ASP:HB3	13:G:151:LEU:HB2	1.84	0.60
13:G:167:ILE:H	13:G:167:ILE:CD1	2.10	0.60
3:C:83:LEU:O	3:C:87:THR:N	2.22	0.60
3:C:207:GLN:O	3:C:211:THR:OG1	2.13	0.60
4:D:224:GLU:OE2	4:D:227:LYS:HD3	2.00	0.60
4:D:227:LYS:HE2	4:D:231:HIS:CE1	2.37	0.60
4:D:298:SER:O	4:D:302:ARG:NH1	2.35	0.60
5:E:80:LEU:CD2	5:E:117:MET:HB2	2.29	0.60
5:E:209:ASN:HB2	5:E:210:LYS:NZ	2.17	0.60
5:E:280:LEU:CD1	5:E:300:LEU:HB2	2.30	0.60
6:F:98:ILE:CG2	6:F:138:VAL:HG21	2.32	0.60
6:F:257:LEU:HD12	13:G:162:ILE:HG23	1.84	0.60
8:O:110:THR:CB	10:Q:28:THR:OG1	2.49	0.60
8:O:389:GLU:O	8:O:392:ALA:HB3	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:564:VAL:H	11:R:25:LYS:CE	2.13	0.60
9:P:9:ARG:HG3	9:P:77:LEU:CD2	2.32	0.60
12:V:113:ARG:CG	12:V:138:PRO:HG2	2.32	0.60
13:G:64:LEU:O	13:G:67:LEU:HB3	2.01	0.60
13:G:75:TYR:N	13:G:96:LEU:HD22	2.16	0.60
2:B:25:ASN:O	2:B:28:PRO:HD2	2.00	0.60
2:B:294:PHE:O	2:B:299:ALA:HB3	2.02	0.60
2:B:439:VAL:CA	3:C:243:LYS:HZ3	2.14	0.60
3:C:110:ALA:O	3:C:113:GLU:HB3	2.02	0.60
3:C:272:PRO:O	3:C:275:LEU:HB3	2.01	0.60
4:D:209:ASN:O	4:D:212:SER:OG	2.13	0.60
4:D:210:GLU:O	4:D:214:LYS:HG3	2.02	0.60
4:D:293:THR:HG23	4:D:297:SER:O	2.02	0.60
4:D:393:PRO:HA	4:D:396:THR:OG1	2.02	0.60
5:E:234:ASP:HA	6:F:49:LEU:HD22	1.84	0.60
5:E:279:GLN:O	5:E:297:GLU:O	2.20	0.60
6:F:62:GLU:HB3	6:F:64:ARG:NH1	2.16	0.60
6:F:90:LEU:HD23	6:F:101:ASP:CB	2.32	0.60
8:O:73:HIS:HB2	8:O:150:LEU:CD1	2.32	0.60
8:O:91:TRP:CE2	8:O:95:SER:HB2	2.36	0.60
8:O:326:ALA:HA	8:O:330:LEU:CD1	2.32	0.60
8:O:512:LEU:HB2	8:O:551:ARG:CA	2.32	0.60
8:O:578:THR:N	8:O:581:GLN:OE1	2.24	0.60
9:P:13:THR:HG21	10:Q:16:TYR:CD1	1.57	0.60
11:R:67:GLU:HG3	11:R:70:VAL:HG11	1.83	0.60
12:V:161:ARG:NH1	12:V:165:VAL:HB	2.17	0.60
13:G:129:GLU:HG3	13:G:145:LEU:CD2	2.32	0.60
1:A:494:ALA:HA	1:A:497:ARG:HG2	1.84	0.60
2:B:73:LYS:NZ	2:B:114:SER:OG	2.21	0.60
2:B:292:ASN:HA	11:R:72:TRP:CZ3	2.37	0.60
2:B:435:ASN:O	2:B:439:VAL:HG23	2.01	0.60
4:D:321:PHE:CD2	4:D:357:GLY:HA2	2.37	0.60
4:D:368:PRO:O	4:D:372:LYS:HG3	2.01	0.60
4:D:385:LEU:HD21	6:F:237:LEU:HD13	1.82	0.60
6:F:124:TRP:CZ2	6:F:135:ASP:HA	2.36	0.60
6:F:189:THR:CG2	6:F:230:MET:HE1	2.32	0.60
6:F:267:LEU:HA	6:F:269:VAL:N	2.16	0.60
8:O:51:GLU:OE2	12:V:182:ARG:HG3	2.02	0.60
8:O:337:THR:HA	8:O:394:TYR:CE1	2.37	0.60
8:O:688:MET:HE1	8:O:730:TYR:HB2	1.84	0.60
10:Q:81:GLU:HA	12:V:161:ARG:HH21	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R:82:HIS:HA	11:R:85:SER:HB2	1.83	0.60
11:R:84:ILE:HA	11:R:95:PRO:CG	2.31	0.60
13:G:140:ILE:CG2	13:G:141:ILE:HG13	2.16	0.60
1:A:251:TRP:CZ3	1:A:288:ALA:HA	2.35	0.60
1:A:451:ALA:HA	1:A:463:ARG:N	2.17	0.60
2:B:197:ILE:O	2:B:201:GLU:HG3	2.02	0.60
2:B:241:GLY:O	2:B:245:HIS:ND1	2.35	0.60
2:B:381:ASP:HB3	2:B:384:ASP:HB2	1.84	0.60
2:B:390:VAL:HA	2:B:393:ILE:HG12	1.82	0.60
2:B:428:THR:HG23	2:B:431:LEU:HD12	1.83	0.60
3:C:352:ASN:HB3	3:C:357:MET:HB2	1.83	0.60
4:D:277:GLN:O	4:D:280:GLU:HB3	2.01	0.60
5:E:45:TRP:HA	5:E:48:ASP:O	2.02	0.60
5:E:243:ASN:HA	6:F:229:LYS:HE2	1.38	0.60
6:F:54:HIS:CB	6:F:88:GLU:HG2	2.32	0.60
6:F:234:ARG:O	6:F:238:ILE:HG13	2.01	0.60
6:F:249:GLU:HA	6:F:250:VAL:CA	2.28	0.60
7:H:21:GLU:O	7:H:25:LEU:HG	2.02	0.60
7:H:139:LEU:HB3	7:H:143:GLU:HG2	1.82	0.60
8:O:278:LEU:HB2	8:O:310:HIS:ND1	2.16	0.60
8:O:531:GLN:O	8:O:534:GLU:HB3	2.01	0.60
8:O:552:LYS:HA	11:R:33:TRP:CB	2.31	0.60
9:P:4:PHE:CZ	10:Q:66:LYS:HG2	2.37	0.60
13:G:24:GLY:O	13:G:27:LEU:HB3	2.02	0.60
1:A:139:SER:HA	1:A:160:PRO:CB	2.32	0.59
1:A:451:ALA:CB	1:A:462:ALA:HA	2.32	0.59
2:B:241:GLY:O	2:B:244:MET:HB3	2.02	0.59
2:B:264:ASN:HA	2:B:267:GLU:OE1	2.02	0.59
2:B:399:HIS:HB3	2:B:412:ASP:CB	2.30	0.59
3:C:348:PHE:CD2	3:C:362:ASP:HA	2.37	0.59
5:E:147:LEU:HD12	5:E:155:GLN:OE1	2.02	0.59
5:E:148:SER:H	5:E:151:ASP:HB2	1.67	0.59
5:E:212:GLU:O	5:E:216:VAL:HG23	2.01	0.59
5:E:241:LEU:HB2	6:F:190:LEU:HD12	1.82	0.59
5:E:279:GLN:CD	5:E:295:LYS:HE3	2.21	0.59
6:F:51:ILE:CG2	6:F:154:LEU:HD13	2.32	0.59
6:F:71:ALA:O	6:F:86:SER:HA	2.02	0.59
6:F:81:ILE:HG13	6:F:186:LEU:HD23	1.84	0.59
6:F:112:PHE:HB2	6:F:116:PHE:CD2	2.36	0.59
6:F:231:LEU:HD12	6:F:234:ARG:CB	2.32	0.59
6:F:302:MET:O	6:F:306:VAL:HG23	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:H:194:GLU:N	13:G:191:GLN:HG3	2.11	0.59
8:O:81:GLU:OE2	8:O:162:MET:HB3	2.01	0.59
8:O:237:GLU:HG2	8:O:296:ASN:HD21	1.66	0.59
8:O:392:ALA:HA	8:O:395:CYS:HB2	1.84	0.59
8:O:728:LYS:HB2	8:O:730:TYR:CD2	2.37	0.59
12:V:101:LEU:HD23	12:V:107:ARG:NH1	2.17	0.59
13:G:93:GLN:HG2	13:G:97:LYS:HE3	1.83	0.59
13:G:149:ASN:HB3	13:G:151:LEU:CD1	2.32	0.59
13:G:202:HIS:O	13:G:205:THR:HG22	2.01	0.59
1:A:174:ALA:O	1:A:178:LEU:HG	2.02	0.59
1:A:244:VAL:HG12	1:A:248:LEU:HD11	1.82	0.59
1:A:454:ASP:OD1	3:C:316:THR:HB	2.02	0.59
2:B:24:SER:CA	8:O:652:LYS:HZ1	2.14	0.59
2:B:92:TYR:O	2:B:96:LEU:HG	2.03	0.59
2:B:175:LEU:HD12	2:B:197:ILE:HD11	1.83	0.59
2:B:193:GLN:N	2:B:229:PRO:HD2	2.17	0.59
2:B:322:ASP:OD1	2:B:324:THR:OG1	2.12	0.59
2:B:370:HIS:HA	2:B:408:LEU:CD2	2.32	0.59
2:B:419:ALA:O	2:B:422:THR:OG1	2.14	0.59
7:H:34:PRO:CB	7:H:68:ASN:HB2	2.32	0.59
7:H:117:ALA:HA	7:H:120:LEU:HB3	1.84	0.59
8:O:208:GLU:O	8:O:212:LEU:HG	2.01	0.59
8:O:407:THR:N	8:O:410:GLU:OE1	2.35	0.59
8:O:500:VAL:O	8:O:500:VAL:HG12	2.02	0.59
8:O:537:VAL:HG23	8:O:553:LEU:CB	2.30	0.59
8:O:567:ASN:HB2	11:R:20:LYS:HA	1.80	0.59
8:O:583:ALA:O	8:O:586:LEU:HB3	2.02	0.59
9:P:64:SER:OG	10:Q:66:LYS:HE2	2.02	0.59
1:A:282:LEU:HA	1:A:285:LEU:HD12	1.83	0.59
2:B:34:ASN:OD1	2:B:57:VAL:HA	2.02	0.59
2:B:71:ALA:HA	2:B:74:GLN:CG	2.32	0.59
2:B:246:LEU:HB2	2:B:279:TYR:OH	2.02	0.59
3:C:94:ARG:HD2	3:C:131:MET:CG	2.30	0.59
3:C:114:ARG:CB	3:C:115:LYS:HG3	2.31	0.59
4:D:67:THR:O	4:D:71:THR:HG23	2.02	0.59
4:D:231:HIS:HA	4:D:281:PHE:CZ	2.36	0.59
4:D:266:LYS:O	4:D:271:ARG:N	2.24	0.59
5:E:250:LEU:CA	6:F:228:ILE:HD11	2.12	0.59
6:F:47:VAL:HG13	6:F:87:PHE:HB3	1.83	0.59
8:O:354:ILE:HD12	8:O:368:LEU:HD22	1.84	0.59
8:O:544:TYR:CZ	11:R:33:TRP:CE3	2.88	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:P:71:ALA:N	10:Q:59:GLU:OE1	2.34	0.59
13:G:43:PHE:O	13:G:46:LEU:HB2	2.02	0.59
1:A:486:ALA:O	1:A:490:MET:HG2	2.02	0.59
3:C:94:ARG:HD2	3:C:131:MET:HE2	1.84	0.59
3:C:189:GLY:HA3	3:C:205:TYR:CZ	2.38	0.59
4:D:231:HIS:HA	4:D:281:PHE:CE1	2.38	0.59
5:E:59:ALA:CB	6:F:46:LEU:HB2	2.31	0.59
5:E:63:LEU:HD22	6:F:44:HIS:CD2	2.37	0.59
5:E:269:LEU:HA	5:E:272:LYS:CG	2.32	0.59
5:E:333:ILE:O	13:G:177:TRP:CA	2.49	0.59
6:F:81:ILE:HD12	6:F:186:LEU:HB3	1.83	0.59
6:F:261:TYR:CB	13:G:170:ILE:HD12	2.28	0.59
8:O:544:TYR:CE2	8:O:552:LYS:HA	2.36	0.59
1:A:230:SER:CB	1:A:232:LYS:HG2	2.32	0.59
1:A:339:ARG:HA	1:A:342:LEU:CD1	2.30	0.59
1:A:343:GLN:CA	1:A:347:ILE:HB	2.23	0.59
1:A:444:ILE:HG21	3:C:313:THR:HG22	1.84	0.59
1:A:492:ARG:HD2	1:A:495:VAL:CG2	2.32	0.59
2:B:14:GLU:C	2:B:18:LEU:CG	2.69	0.59
2:B:217:LEU:O	2:B:220:GLN:HB3	2.03	0.59
3:C:142:HIS:HB3	3:C:184:TYR:CE1	2.37	0.59
4:D:195:LEU:CB	4:D:204:ALA:HB2	2.32	0.59
4:D:240:GLN:O	4:D:244:ARG:HG3	2.02	0.59
4:D:319:ILE:C	4:D:358:ILE:HG23	2.23	0.59
5:E:64:LYS:HB3	5:E:96:PHE:CB	2.32	0.59
5:E:159:GLN:HE22	5:E:188:THR:H	1.51	0.59
5:E:272:LYS:HB3	5:E:306:ASP:OD2	2.02	0.59
6:F:105:TYR:OH	6:F:121:PHE:HB2	2.01	0.59
8:O:87:TYR:CE2	8:O:151:MET:HG2	2.37	0.59
8:O:177:ASN:HB2	8:O:180:VAL:HG23	1.83	0.59
8:O:219:TYR:OH	8:O:263:ILE:HD12	2.02	0.59
9:P:49:GLN:O	9:P:51:LEU:HG	2.02	0.59
9:P:65:GLN:O	9:P:68:ARG:HB3	2.02	0.59
12:V:89:LEU:HD13	12:V:202:THR:OG1	2.03	0.59
12:V:170:VAL:HG11	12:V:178:LEU:HD23	1.83	0.59
12:V:174:ASN:O	12:V:178:LEU:N	2.36	0.59
1:A:294:LEU:HD21	1:A:393:TYR:O	2.03	0.59
2:B:151:THR:HA	2:B:154:LYS:NZ	2.18	0.59
3:C:397:ILE:CG2	6:F:308:LYS:HB3	2.33	0.59
4:D:256:GLN:HA	4:D:261:TYR:CG	2.37	0.59
4:D:384:LEU:HD11	4:D:387:LYS:HE2	1.81	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:272:LYS:HD3	5:E:306:ASP:HB3	1.84	0.59
6:F:67:GLN:HG2	6:F:98:ILE:HD11	1.85	0.59
7:H:45:LEU:HD22	7:H:81:ILE:HD12	1.85	0.59
8:O:32:ARG:NH1	10:Q:37:PHE:O	2.36	0.59
8:O:333:GLU:CG	8:O:338:LEU:HD12	2.33	0.59
8:O:700:ILE:O	8:O:700:ILE:HG12	2.02	0.59
13:G:116:LEU:HA	13:G:119:ASP:HB3	1.85	0.59
13:G:140:ILE:O	13:G:157:CYS:HA	2.03	0.59
13:G:182:GLU:HG3	13:G:183:ALA:N	2.16	0.59
1:A:454:ASP:CA	3:C:315:LEU:HB3	2.33	0.59
1:A:492:ARG:HD3	3:C:244:TYR:CE2	2.37	0.59
3:C:202:LEU:HB2	3:C:230:VAL:CG1	2.29	0.59
4:D:101:GLU:HG3	4:D:137:LYS:CB	2.21	0.59
4:D:121:ARG:O	4:D:125:GLN:HG3	2.03	0.59
4:D:211:LEU:HA	4:D:214:LYS:HD2	1.83	0.59
4:D:341:GLN:O	4:D:344:THR:OG1	2.10	0.59
5:E:268:ASP:O	5:E:272:LYS:HG3	2.03	0.59
7:H:126:THR:O	7:H:164:PRO:HD2	2.02	0.59
8:O:53:LEU:O	8:O:57:LEU:HB2	2.02	0.59
8:O:322:GLU:HB2	8:O:325:ARG:HH11	1.68	0.59
8:O:354:ILE:HA	8:O:358:LEU:CB	2.31	0.59
8:O:727:ASP:C	11:R:55:GLU:N	2.54	0.59
8:O:733:ARG:CZ	11:R:96:LEU:HD21	2.32	0.59
9:P:99:LEU:O	9:P:100:PRO:C	2.41	0.59
13:G:135:ALA:O	13:G:140:ILE:HG22	2.01	0.59
1:A:101:GLN:HG3	1:A:115:LEU:CD2	2.33	0.59
1:A:194:LYS:HD2	1:A:229:THR:HG23	1.83	0.59
1:A:417:TYR:CD1	2:B:402:ILE:CB	2.84	0.59
4:D:314:LYS:HB2	13:G:137:TYR:CZ	2.37	0.59
4:D:321:PHE:N	4:D:357:GLY:O	2.25	0.59
5:E:31:TYR:HD1	5:E:84:LYS:HD3	1.68	0.59
5:E:60:LEU:HA	5:E:63:LEU:CG	2.33	0.59
5:E:269:LEU:HA	5:E:272:LYS:CD	2.33	0.59
5:E:279:GLN:OE1	5:E:298:ASP:HB2	2.03	0.59
6:F:54:HIS:HA	6:F:88:GLU:HG2	1.84	0.59
6:F:66:VAL:O	6:F:68:VAL:HG13	2.02	0.59
7:H:46:LEU:HD11	7:H:105:ILE:HB	1.82	0.59
7:H:90:TYR:HA	7:H:93:ILE:HD12	1.85	0.59
8:O:220:LYS:CD	8:O:270:MET:HA	2.32	0.59
8:O:326:ALA:HB3	8:O:346:VAL:HG22	1.85	0.59
8:O:485:ASP:O	8:O:489:LYS:HG3	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:505:ILE:CG2	11:R:27:TRP:HB3	2.33	0.59
8:O:600:GLN:HA	8:O:603:THR:CG2	2.33	0.59
8:O:633:ASP:HB2	8:O:636:SER:CB	2.32	0.59
9:P:8:ARG:NH1	9:P:13:THR:OG1	2.36	0.59
11:R:87:TRP:CG	11:R:95:PRO:HA	2.37	0.59
13:G:78:TYR:CE1	13:G:82:LYS:HA	2.37	0.59
2:B:21:SER:CA	8:O:652:LYS:CE	2.73	0.59
2:B:206:THR:O	2:B:209:LYS:HE3	2.03	0.59
2:B:255:HIS:HB2	2:B:280:LEU:HD11	1.83	0.59
3:C:51:VAL:HB	3:C:87:THR:OG1	2.02	0.59
3:C:146:CYS:HA	3:C:149:CYS:SG	2.43	0.59
3:C:221:LEU:O	3:C:224:TYR:HB3	2.03	0.59
3:C:355:ASP:HB2	3:C:357:MET:HG2	1.85	0.59
6:F:69:ILE:HG21	6:F:100:ILE:CD1	2.33	0.59
6:F:108:LYS:HG3	6:F:112:PHE:CE1	2.38	0.59
6:F:250:VAL:HG12	6:F:251:PRO:O	2.03	0.59
8:O:106:ARG:HH21	10:Q:31:ALA:HB2	1.64	0.59
8:O:152:VAL:HA	8:O:156:GLN:CD	2.23	0.59
8:O:162:MET:SD	8:O:165:ARG:NH1	2.75	0.59
8:O:312:ILE:HG23	8:O:367:ALA:HB2	1.85	0.59
8:O:508:GLN:HG2	8:O:559:LEU:CD1	2.09	0.59
8:O:569:LEU:HG	11:R:19:LYS:C	2.12	0.59
9:P:3:VAL:CG2	9:P:18:ALA:HB3	2.33	0.59
9:P:52:ASP:H	9:P:55:LYS:HD3	1.67	0.59
9:P:63:THR:N	9:P:66:THR:HB	2.18	0.59
12:V:83:VAL:CG1	12:V:100:THR:HB	2.32	0.59
12:V:163:LEU:O	12:V:167:ARG:HG3	2.02	0.59
1:A:357:GLU:HA	1:A:363:ARG:NH1	2.18	0.59
1:A:424:ARG:NH1	1:A:428:ALA:HB2	2.17	0.59
3:C:121:ILE:CG1	3:C:145:LEU:HD11	2.32	0.59
4:D:201:PHE:HA	4:D:232:CYS:HB3	1.85	0.59
4:D:307:HIS:ND1	4:D:310:LEU:HD23	2.18	0.59
4:D:393:PRO:O	4:D:396:THR:HB	2.03	0.59
5:E:43:LYS:HG2	5:E:45:TRP:CZ2	2.37	0.59
5:E:241:LEU:HD23	6:F:200:VAL:HG11	1.85	0.59
6:F:98:ILE:H	6:F:134:SER:HB2	1.67	0.59
6:F:125:TYR:HB3	6:F:152:LEU:HD22	1.85	0.59
7:H:81:ILE:HG22	7:H:84:ARG:HH21	1.68	0.59
8:O:110:THR:CG2	10:Q:28:THR:OG1	2.51	0.59
8:O:564:VAL:HB	11:R:19:LYS:HZ2	1.68	0.59
8:O:569:LEU:HD11	11:R:19:LYS:N	2.13	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:575:ALA:CB	8:O:650:LYS:HE3	2.32	0.59
8:O:578:THR:HG21	8:O:656:SER:HB3	1.84	0.59
9:P:8:ARG:HA	9:P:12:THR:O	2.02	0.59
9:P:56:THR:H	9:P:59:GLU:HB2	1.67	0.59
13:G:99:LEU:O	13:G:102:VAL:HG22	2.02	0.59
1:A:281:ILE:H	1:A:281:ILE:HD12	1.68	0.58
1:A:306:LEU:HD23	1:A:325:VAL:HG13	1.85	0.58
2:B:18:LEU:CD2	8:O:648:ARG:NH1	2.61	0.58
2:B:31:ASP:O	2:B:35:GLN:HG3	2.03	0.58
2:B:282:LEU:HD21	2:B:346:HIS:CG	2.38	0.58
2:B:317:ALA:HA	2:B:320:ASN:CB	2.30	0.58
2:B:338:MET:CE	2:B:344:ARG:HA	2.33	0.58
2:B:403:ASP:OD2	2:B:406:ASN:ND2	2.36	0.58
3:C:61:VAL:HA	3:C:64:VAL:HG23	1.83	0.58
3:C:122:GLY:HA2	3:C:125:LYS:HE2	1.85	0.58
3:C:222:GLU:HA	3:C:225:LYS:CG	2.33	0.58
3:C:226:LYS:O	3:C:230:VAL:HG23	2.03	0.58
4:D:395:TRP:HA	4:D:398:GLN:CG	2.33	0.58
5:E:241:LEU:HD13	6:F:190:LEU:CB	2.21	0.58
5:E:242:TRP:CZ3	6:F:219:GLU:OE1	2.56	0.58
7:H:34:PRO:O	7:H:68:ASN:ND2	2.36	0.58
8:O:32:ARG:CZ	8:O:35:TRP:CZ3	2.60	0.58
8:O:106:ARG:O	8:O:109:ASN:HB2	2.03	0.58
8:O:285:ILE:HD11	8:O:290:LYS:HE2	1.85	0.58
8:O:311:MET:O	8:O:315:LEU:HD23	2.03	0.58
8:O:402:SER:HB2	8:O:447:LEU:HD21	1.84	0.58
8:O:511:VAL:HG11	8:O:551:ARG:HH22	1.59	0.58
9:P:6:MET:CE	9:P:8:ARG:HD2	2.33	0.58
9:P:45:TYR:OH	9:P:50:LEU:HD12	2.02	0.58
12:V:207:ALA:C	12:V:208:ALA:CA	2.69	0.58
1:A:379:LYS:NZ	1:A:383:GLU:OE2	2.24	0.58
1:A:451:ALA:CA	1:A:462:ALA:HA	2.32	0.58
1:A:467:GLN:HG3	2:B:418:GLY:HA3	1.72	0.58
2:B:370:HIS:N	4:D:354:GLN:OE1	2.33	0.58
3:C:125:LYS:HD2	3:C:161:TYR:CE2	2.37	0.58
3:C:138:LEU:HB3	3:C:169:ILE:HG23	1.84	0.58
3:C:232:LEU:HD22	3:C:267:TYR:CD2	2.38	0.58
3:C:286:PHE:CE1	3:C:294:LEU:HB2	2.38	0.58
4:D:120:TRP:HB3	4:D:158:ASP:HB2	1.85	0.58
5:E:269:LEU:O	5:E:273:LEU:HG	2.04	0.58
5:E:330:GLN:HG2	6:F:268:PRO:CG	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:166:GLU:HB3	8:O:175:ASP:HA	1.84	0.58
8:O:208:GLU:HA	8:O:211:PHE:HB3	1.85	0.58
8:O:243:LEU:HD13	8:O:267:GLN:CG	2.33	0.58
8:O:247:GLU:O	8:O:251:ARG:NE	2.36	0.58
8:O:554:THR:C	11:R:32:LEU:HD12	2.23	0.58
8:O:700:ILE:HG21	8:O:718:ILE:CD1	2.33	0.58
12:V:66:VAL:HG21	12:V:115:HIS:HA	1.86	0.58
1:A:480:LYS:HE2	1:A:480:LYS:HA	1.85	0.58
3:C:15:LEU:CA	3:C:18:GLN:HB2	2.32	0.58
3:C:101:ALA:HB2	3:C:175:ALA:HB1	1.83	0.58
3:C:347:ILE:HD13	3:C:358:VAL:CG1	2.32	0.58
3:C:365:GLU:HG3	3:C:372:MET:HG3	1.84	0.58
4:D:21:ASP:OD2	4:D:25:LYS:HE3	2.03	0.58
4:D:381:VAL:HG21	6:F:263:LEU:HD13	1.85	0.58
5:E:63:LEU:HB3	6:F:44:HIS:CD2	2.37	0.58
5:E:63:LEU:HD23	6:F:44:HIS:HB2	1.84	0.58
5:E:104:GLU:O	5:E:210:LYS:HE2	2.04	0.58
5:E:244:LYS:CE	6:F:229:LYS:O	2.51	0.58
5:E:296:SER:C	5:E:298:ASP:N	2.57	0.58
5:E:331:ILE:HG22	13:G:177:TRP:O	2.02	0.58
6:F:267:LEU:CD2	13:G:177:TRP:NE1	2.59	0.58
8:O:31:GLU:HA	8:O:31:GLU:OE1	2.03	0.58
8:O:192:GLU:OE1	8:O:201:LYS:HB3	2.03	0.58
8:O:312:ILE:HG12	8:O:363:HIS:HB3	1.85	0.58
8:O:512:LEU:N	11:R:32:LEU:HB3	2.18	0.58
8:O:597:LYS:HE2	8:O:634:ALA:HB2	1.83	0.58
8:O:693:VAL:HG11	8:O:702:GLU:OE2	2.04	0.58
9:P:9:ARG:CA	9:P:77:LEU:HD22	2.33	0.58
9:P:12:THR:CB	10:Q:15:GLU:OE1	2.51	0.58
12:V:60:ARG:HD2	12:V:64:ARG:HA	1.85	0.58
1:A:95:MET:SD	1:A:99:ARG:HG3	2.42	0.58
2:B:192:THR:HG21	8:O:459:ASN:HD21	1.68	0.58
2:B:359:LEU:CD1	2:B:378:LEU:HD11	2.32	0.58
2:B:439:VAL:C	3:C:243:LYS:HZ3	2.06	0.58
3:C:13:ARG:NE	3:C:48:ALA:O	2.24	0.58
3:C:27:LEU:HB3	3:C:30:LYS:CG	2.31	0.58
3:C:380:MET:HG2	3:C:384:ILE:CD1	2.33	0.58
3:C:389:ARG:HH21	3:C:392:ALA:HB2	1.67	0.58
3:C:391:LYS:CG	6:F:301:THR:HG21	2.33	0.58
4:D:31:GLU:CA	4:D:34:ILE:HD12	2.34	0.58
4:D:42:LEU:CG	4:D:46:LYS:HE3	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:131:PRO:HB2	4:D:134:THR:OG1	2.02	0.58
4:D:381:VAL:CG1	6:F:231:LEU:HD11	2.32	0.58
4:D:386:GLU:C	4:D:387:LYS:N	2.55	0.58
5:E:59:ALA:HB3	6:F:46:LEU:HD13	1.86	0.58
5:E:98:LEU:HB2	5:E:100:VAL:HG22	1.85	0.58
5:E:146:TRP:CZ3	5:E:148:SER:HA	2.38	0.58
5:E:320:SER:O	5:E:324:LYS:HG3	2.03	0.58
5:E:329:ASN:HB3	6:F:276:LYS:CE	2.33	0.58
6:F:221:LEU:O	6:F:225:HIS:N	2.35	0.58
7:H:31:ILE:HG23	7:H:64:ILE:CD1	2.34	0.58
7:H:41:LEU:HD21	7:H:75:TRP:HA	1.84	0.58
7:H:201:THR:HG21	13:G:191:GLN:O	2.03	0.58
8:O:170:ASP:HA	8:O:249:ARG:HH11	1.68	0.58
8:O:396:ASP:HA	8:O:442:ARG:NH2	2.18	0.58
8:O:399:LEU:HB3	8:O:454:GLU:OE2	2.03	0.58
8:O:569:LEU:HD12	11:R:18:LYS:C	2.20	0.58
8:O:620:VAL:HG12	8:O:622:MET:HG3	1.84	0.58
8:O:693:VAL:C	8:O:699:LEU:CG	2.72	0.58
12:V:178:LEU:HB3	12:V:180:ILE:HG12	1.83	0.58
12:V:184:LEU:HA	12:V:187:ASP:HB2	1.84	0.58
1:A:92:SER:HA	1:A:96:ARG:NE	2.19	0.58
1:A:225:ARG:CA	1:A:237:MET:HG3	2.33	0.58
1:A:495:VAL:HB	3:C:211:THR:HG23	1.85	0.58
2:B:28:PRO:CD	2:B:29:ASN:H	2.17	0.58
2:B:214:LEU:HD23	2:B:217:LEU:HD12	1.85	0.58
2:B:301:PRO:HA	2:B:304:ASN:OD1	2.02	0.58
2:B:420:ARG:HG3	5:E:263:THR:HB	1.84	0.58
3:C:82:GLN:HB2	3:C:123:ILE:CG2	2.34	0.58
3:C:103:LEU:O	3:C:107:LEU:HD12	2.04	0.58
3:C:248:ILE:HA	3:C:251:ARG:CB	2.33	0.58
3:C:286:PHE:HB3	3:C:292:MET:SD	2.43	0.58
3:C:308:GLN:O	3:C:311:THR:OG1	2.15	0.58
3:C:323:ALA:HB1	3:C:330:GLY:H	1.68	0.58
4:D:60:VAL:O	4:D:63:ARG:HB2	2.04	0.58
4:D:140:ASN:HB3	4:D:143:TYR:HB3	1.85	0.58
4:D:191:TYR:CE2	4:D:195:LEU:HD11	2.38	0.58
4:D:293:THR:HG22	4:D:299:ILE:CG1	2.34	0.58
5:E:312:ILE:HG22	5:E:316:HIS:CE1	2.39	0.58
5:E:321:GLN:HB2	6:F:282:GLN:NE2	2.18	0.58
6:F:41:VAL:HG11	6:F:73:ILE:HB	1.84	0.58
6:F:70:GLY:HA2	6:F:89:LEU:HG	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:73:ILE:CD1	6:F:119:LEU:HD22	2.33	0.58
6:F:127:THR:HA	6:F:154:LEU:O	2.02	0.58
8:O:110:THR:HB	10:Q:28:THR:OG1	2.03	0.58
8:O:160:ILE:HD12	8:O:207:PHE:HD1	1.68	0.58
8:O:166:GLU:HA	8:O:169:ASN:ND2	2.18	0.58
8:O:227:LEU:HD12	8:O:232:CYS:SG	2.43	0.58
8:O:660:ASP:HB3	8:O:663:GLN:HB3	1.84	0.58
9:P:24:VAL:HG21	9:P:51:LEU:HB3	1.84	0.58
9:P:69:PRO:C	10:Q:62:ASN:HD22	2.05	0.58
13:G:12:LEU:HD22	13:G:13:GLU:H	1.68	0.58
13:G:71:ALA:HB1	13:G:164:LYS:N	2.11	0.58
1:A:416:PRO:HG2	1:A:417:TYR:CD2	2.37	0.58
2:B:25:ASN:O	2:B:28:PRO:CG	2.51	0.58
2:B:213:LYS:O	2:B:217:LEU:HG	2.03	0.58
3:C:122:GLY:HA2	3:C:125:LYS:CG	2.32	0.58
3:C:262:GLU:CD	3:C:278:LEU:HD13	2.22	0.58
5:E:233:LEU:HD23	6:F:52:SER:CB	2.34	0.58
5:E:272:LYS:HE2	5:E:309:LYS:HZ3	1.68	0.58
7:H:86:PHE:HB2	7:H:135:ALA:HB1	1.85	0.58
8:O:30:VAL:HG23	8:O:35:TRP:HZ2	1.69	0.58
8:O:112:PHE:O	8:O:117:LYS:NZ	2.21	0.58
8:O:281:GLU:HG3	8:O:285:ILE:CD1	2.34	0.58
8:O:389:GLU:HA	8:O:392:ALA:CB	2.34	0.58
8:O:512:LEU:O	8:O:551:ARG:CG	2.52	0.58
8:O:512:LEU:CB	8:O:551:ARG:HB3	2.26	0.58
8:O:657:MET:HA	8:O:657:MET:CE	2.33	0.58
8:O:695:ARG:HD3	8:O:740:GLU:HA	1.85	0.58
8:O:718:ILE:HG23	8:O:719:LYS:H	1.67	0.58
9:P:40:ASP:O	9:P:80:ARG:NE	2.36	0.58
9:P:76:GLY:HA2	9:P:89:CYS:O	2.04	0.58
10:Q:91:LEU:HD11	12:V:184:LEU:CD2	2.25	0.58
12:V:178:LEU:HB2	12:V:185:TYR:CE1	2.38	0.58
2:B:252:GLU:HA	2:B:255:HIS:CD2	2.39	0.58
2:B:420:ARG:O	2:B:423:ALA:HB3	2.04	0.58
2:B:421:TYR:CE1	6:F:289:MET:HE3	2.39	0.58
3:C:365:GLU:CG	3:C:372:MET:HG3	2.34	0.58
4:D:222:ARG:O	4:D:225:ALA:HB3	2.04	0.58
4:D:235:LEU:HD11	4:D:285:LEU:HD21	1.85	0.58
4:D:255:CYS:O	4:D:261:TYR:HB2	2.04	0.58
4:D:315:LEU:CD2	13:G:137:TYR:HD2	2.13	0.58
5:E:201:SER:OG	5:E:219:LYS:HD2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:240:LEU:HD13	6:F:163:LEU:CA	2.34	0.58
6:F:46:LEU:HD12	6:F:49:LEU:CD1	2.33	0.58
6:F:217:VAL:CG1	13:G:192:VAL:HG22	2.00	0.58
6:F:253:ASN:O	6:F:257:LEU:HG	2.03	0.58
7:H:133:PHE:CE2	7:H:139:LEU:HD12	2.33	0.58
8:O:17:LEU:HD21	8:O:61:THR:OG1	2.03	0.58
8:O:25:VAL:HB	8:O:68:HIS:CD2	2.39	0.58
8:O:168:LYS:HB3	8:O:171:ARG:HH22	1.69	0.58
8:O:617:LEU:CB	8:O:623:ILE:HB	2.33	0.58
9:P:99:LEU:CB	9:P:103:MET:HG2	2.22	0.58
11:R:79:PHE:CD2	11:R:84:ILE:HB	2.39	0.58
13:G:64:LEU:HD12	13:G:67:LEU:HD23	1.85	0.58
13:G:70:PHE:HD1	13:G:99:LEU:HD13	1.69	0.58
1:A:426:ALA:O	1:A:430:ASN:N	2.20	0.58
2:B:5:GLU:CB	2:B:8:PHE:HB2	2.33	0.58
2:B:35:GLN:HG2	2:B:67:TRP:CE2	2.38	0.58
3:C:39:LEU:HD12	3:C:65:LYS:HE2	1.84	0.58
3:C:82:GLN:OE1	3:C:123:ILE:HG23	2.04	0.58
3:C:230:VAL:O	3:C:235:LEU:HG	2.03	0.58
3:C:278:LEU:O	3:C:281:LYS:HB3	2.03	0.58
3:C:384:ILE:O	3:C:388:GLU:HG2	2.02	0.58
4:D:58:SER:HB3	4:D:61:ILE:CG1	2.34	0.58
4:D:293:THR:HA	4:D:299:ILE:CG1	2.33	0.58
4:D:319:ILE:HG21	4:D:324:LEU:HD13	1.84	0.58
4:D:353:ASP:H	4:D:360:HIS:HD2	1.51	0.58
5:E:250:LEU:HB3	6:F:228:ILE:HD11	1.80	0.58
5:E:322:VAL:O	5:E:326:LYS:HG2	2.03	0.58
6:F:125:TYR:CB	6:F:152:LEU:HD22	2.34	0.58
7:H:19:GLN:O	7:H:23:GLN:HG3	2.04	0.58
7:H:33:THR:HB	7:H:36:VAL:CG2	2.33	0.58
8:O:192:GLU:O	8:O:196:LYS:HD3	2.03	0.58
8:O:399:LEU:HD12	8:O:435:TYR:OH	2.04	0.58
8:O:712:ASN:HD22	8:O:712:ASN:H	1.51	0.58
11:R:44:ILE:HG13	11:R:83:CYS:HA	1.85	0.58
12:V:78:ASN:HA	12:V:151:ILE:HG13	1.86	0.58
2:B:164:GLU:HG3	2:B:167:LYS:HG3	1.84	0.58
2:B:356:THR:O	2:B:360:ILE:HG13	2.03	0.58
2:B:381:ASP:O	2:B:385:VAL:HG23	2.04	0.58
4:D:30:LEU:O	4:D:34:ILE:N	2.31	0.58
4:D:41:GLN:O	4:D:45:LEU:HG	2.04	0.58
4:D:324:LEU:HD23	4:D:336:GLU:OE1	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:217:VAL:CB	13:G:192:VAL:CG2	2.81	0.58
7:H:41:LEU:HD23	7:H:74:ILE:HG22	1.86	0.58
7:H:84:ARG:CA	7:H:89:ILE:HD11	2.23	0.58
7:H:159:THR:O	7:H:161:MET:HE3	2.04	0.58
8:O:58:TYR:HB2	8:O:112:PHE:CE2	2.38	0.58
8:O:475:ARG:O	8:O:479:ASP:HB2	2.03	0.58
8:O:485:ASP:O	8:O:488:ASN:HB2	2.04	0.58
8:O:564:VAL:HG23	11:R:19:LYS:NZ	2.19	0.58
9:P:68:ARG:HD2	9:P:71:ALA:H	1.68	0.58
10:Q:91:LEU:HG	12:V:184:LEU:CD1	2.34	0.58
12:V:146:PRO:HA	12:V:147:ILE:CB	2.26	0.58
2:B:367:THR:HG21	2:B:413:HIS:CD2	2.37	0.58
3:C:153:LYS:O	7:H:55:TYR:HB3	2.03	0.58
3:C:366:LYS:HB2	3:C:368:ASN:HB3	1.85	0.58
4:D:173:LEU:HD23	11:R:77:HIS:NE2	2.18	0.58
4:D:184:GLN:O	4:D:187:TYR:HB3	2.03	0.58
4:D:319:ILE:CG2	4:D:324:LEU:HD13	2.34	0.58
4:D:365:GLU:HA	4:D:369:THR:OG1	2.03	0.58
5:E:248:ASN:HB2	6:F:222:ILE:HD12	1.84	0.58
5:E:272:LYS:HA	5:E:275:GLN:HG3	1.85	0.58
6:F:170:SER:HB3	6:F:183:PHE:CE1	2.39	0.58
7:H:34:PRO:HB2	7:H:35:PRO:HD3	1.85	0.58
7:H:117:ALA:O	7:H:120:LEU:HB3	2.04	0.58
7:H:129:ILE:HG23	7:H:160:ARG:CD	2.30	0.58
8:O:30:VAL:HG23	8:O:35:TRP:CZ2	2.37	0.58
8:O:240:LEU:HD11	8:O:244:LYS:HE3	1.84	0.58
8:O:508:GLN:O	11:R:30:VAL:HA	2.04	0.58
9:P:3:VAL:CG2	9:P:57:LEU:HD13	2.33	0.58
9:P:32:GLU:OE2	9:P:38:PRO:HA	2.04	0.58
11:R:50:MET:CE	11:R:52:LEU:HD21	2.32	0.58
11:R:81:PHE:HA	11:R:102:GLU:CA	2.33	0.58
11:R:94:CYS:SG	11:R:95:PRO:HD2	2.43	0.58
12:V:146:PRO:HG3	12:V:148:PHE:CD2	2.39	0.58
12:V:162:CYS:HB3	12:V:188:LEU:HD21	1.86	0.58
13:G:140:ILE:HA	13:G:158:ILE:CG1	2.34	0.58
1:A:435:ALA:O	1:A:439:GLU:HG3	2.04	0.57
1:A:470:THR:HA	1:A:473:GLU:CD	2.24	0.57
1:A:479:GLY:O	1:A:483:GLN:HG3	2.04	0.57
2:B:171:ILE:O	2:B:175:LEU:HG	2.02	0.57
2:B:172:LEU:HD22	2:B:197:ILE:HG12	1.86	0.57
2:B:282:LEU:HA	2:B:285:MET:HE3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:295:ASP:HA	2:B:300:LYS:CD	2.34	0.57
3:C:53:GLU:HG3	3:C:95:TYR:HE2	1.68	0.57
3:C:202:LEU:CD2	3:C:235:LEU:HD11	2.33	0.57
4:D:369:THR:HA	4:D:372:LYS:CG	2.34	0.57
5:E:60:LEU:HG	5:E:94:ASP:OD1	2.04	0.57
8:O:83:VAL:HA	8:O:86:MET:CB	2.32	0.57
8:O:240:LEU:CD1	8:O:244:LYS:HE3	2.34	0.57
8:O:266:CYS:HA	8:O:269:ARG:HD3	1.86	0.57
8:O:337:THR:O	8:O:341:GLU:HG2	2.02	0.57
8:O:397:ASN:CA	8:O:400:LYS:HE3	2.34	0.57
8:O:414:ARG:HG3	8:O:418:PHE:CZ	2.39	0.57
8:O:633:ASP:HB2	8:O:636:SER:OG	2.04	0.57
8:O:660:ASP:O	8:O:662:PRO:HD2	2.04	0.57
8:O:699:LEU:O	8:O:699:LEU:HD22	2.03	0.57
9:P:77:LEU:O	9:P:88:LEU:HA	2.03	0.57
13:G:96:LEU:HA	13:G:99:LEU:CG	2.34	0.57
1:A:108:PRO:O	1:A:109:THR:OG1	2.20	0.57
1:A:306:LEU:HD13	1:A:328:TYR:C	2.24	0.57
1:A:454:ASP:HB3	1:A:457:SER:OG	2.04	0.57
2:B:258:PHE:CD2	2:B:280:LEU:HD13	2.39	0.57
2:B:359:LEU:O	2:B:363:ILE:HG12	2.04	0.57
2:B:420:ARG:NE	5:E:260:ASP:OD1	2.37	0.57
3:C:52:GLN:HA	3:C:88:CYS:CB	2.27	0.57
4:D:2:ALA:HB1	4:D:43:GLU:HB3	1.85	0.57
4:D:41:GLN:HE22	4:D:76:LEU:HD22	1.68	0.57
4:D:145:LEU:HA	4:D:148:TYR:CD2	2.39	0.57
4:D:388:ILE:N	4:D:390:GLN:N	2.52	0.57
5:E:147:LEU:HD12	5:E:155:GLN:HB2	1.85	0.57
5:E:247:VAL:O	6:F:228:ILE:CD1	2.52	0.57
8:O:59:THR:CA	8:O:135:PRO:HD2	2.34	0.57
8:O:117:LYS:CD	8:O:136:LEU:HD13	2.32	0.57
8:O:520:THR:O	8:O:556:LEU:CD1	2.51	0.57
12:V:180:ILE:CD1	12:V:188:LEU:HD12	2.33	0.57
13:G:97:LYS:HB3	13:G:120:LEU:CD1	2.32	0.57
1:A:334:LEU:HD22	1:A:366:ILE:HG13	1.86	0.57
1:A:443:LEU:O	1:A:447:GLY:N	2.38	0.57
1:A:492:ARG:HA	1:A:495:VAL:HG22	1.86	0.57
2:B:14:GLU:HA	2:B:18:LEU:HG	1.86	0.57
2:B:354:ILE:HD12	2:B:355:ARG:N	2.19	0.57
3:C:31:SER:O	3:C:35:LEU:HD21	2.05	0.57
3:C:150:LEU:HA	3:C:155:PHE:CZ	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:317:LEU:HD23	3:C:322:MET:HB2	1.85	0.57
3:C:390:LEU:HD13	6:F:302:MET:HB2	1.86	0.57
4:D:306:GLU:HG2	4:D:328:LEU:HD13	1.87	0.57
5:E:116:TYR:CE2	5:E:117:MET:HG3	2.38	0.57
5:E:250:LEU:H	6:F:225:HIS:CB	2.16	0.57
5:E:324:LYS:HG3	6:F:221:LEU:HD22	1.87	0.57
6:F:252:PHE:CZ	13:G:165:LYS:HG3	2.39	0.57
7:H:27:ALA:CB	7:H:32:ALA:HA	2.35	0.57
8:O:521:GLN:HE22	8:O:555:TRP:N	1.81	0.57
8:O:726:ILE:HA	8:O:731:ILE:O	2.03	0.57
13:G:145:LEU:N	13:G:145:LEU:HD12	2.18	0.57
1:A:119:LEU:HD12	1:A:131:TYR:HE1	1.68	0.57
1:A:240:ASN:O	1:A:244:VAL:HG23	2.03	0.57
1:A:468:ARG:HG2	1:A:472:PHE:CE2	2.40	0.57
1:A:487:LYS:NZ	3:C:165:ASP:HB2	2.18	0.57
2:B:169:GLN:OE1	2:B:172:LEU:HD12	2.04	0.57
2:B:314:LEU:HD11	2:B:329:ILE:CG2	2.34	0.57
2:B:426:LYS:HA	2:B:429:ASN:CB	2.34	0.57
3:C:80:GLN:HA	3:C:83:LEU:HD12	1.85	0.57
4:D:129:GLY:O	4:D:131:PRO:HD3	2.04	0.57
4:D:149:LEU:HD13	4:D:186:HIS:CB	2.34	0.57
4:D:202:ILE:O	4:D:206:GLN:HG3	2.05	0.57
4:D:293:THR:HG22	4:D:299:ILE:HA	1.84	0.57
4:D:322:GLU:HA	4:D:332:ALA:CB	2.34	0.57
5:E:68:HIS:CB	5:E:97:ALA:HB3	2.34	0.57
5:E:183:LEU:CD2	5:E:226:VAL:HG21	2.33	0.57
5:E:245:TYR:CE1	6:F:222:ILE:HG13	2.37	0.57
6:F:171:VAL:CB	6:F:182:LEU:HD12	2.31	0.57
7:H:194:GLU:HG3	13:G:188:ILE:CG2	2.26	0.57
8:O:81:GLU:CG	8:O:84:LEU:HD22	2.31	0.57
8:O:154:PRO:HG2	8:O:155:LEU:CD2	2.35	0.57
8:O:226:LEU:O	8:O:230:SER:HB2	2.04	0.57
8:O:312:ILE:HD11	8:O:363:HIS:HB3	1.86	0.57
8:O:373:THR:HG23	8:O:424:TYR:HB3	1.87	0.57
8:O:429:ASP:O	8:O:432:GLN:HB2	2.04	0.57
11:R:44:ILE:HD11	11:R:83:CYS:HA	1.87	0.57
11:R:64:THR:HB	11:R:68:CYS:CB	2.33	0.57
1:A:104:ALA:CA	1:A:111:ARG:HA	2.35	0.57
1:A:283:THR:HA	1:A:286:LYS:HE2	1.87	0.57
1:A:409:ALA:O	1:A:412:GLN:HB3	2.04	0.57
1:A:478:MET:HE2	2:B:428:THR:HG23	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:21:SER:OG	8:O:652:LYS:HE2	2.03	0.57
2:B:401:ARG:N	2:B:410:GLU:OE2	2.34	0.57
3:C:13:ARG:CG	3:C:48:ALA:HB1	2.33	0.57
3:C:53:GLU:HA	3:C:84:PHE:HE1	1.69	0.57
4:D:48:PHE:CE2	4:D:66:LEU:HD23	2.40	0.57
4:D:341:GLN:O	4:D:345:GLU:HG3	2.04	0.57
4:D:350:GLY:HA3	4:D:361:PHE:CE1	2.38	0.57
7:H:13:PHE:HD1	7:H:46:LEU:HD13	1.69	0.57
7:H:103:GLN:HA	7:H:106:MET:HB2	1.87	0.57
7:H:117:ALA:HB1	7:H:136:PHE:CD2	2.40	0.57
7:H:120:LEU:HD12	7:H:124:ALA:CB	2.34	0.57
8:O:178:GLN:HB2	8:O:252:LYS:HD3	1.86	0.57
8:O:398:LEU:HD13	8:O:415:LEU:CD2	2.33	0.57
8:O:460:LYS:O	8:O:463:GLN:HB2	2.04	0.57
8:O:461:LEU:O	8:O:464:ALA:N	2.32	0.57
8:O:484:ALA:N	8:O:507:PHE:HE2	2.01	0.57
8:O:567:ASN:CG	11:R:23:GLU:HG2	2.23	0.57
13:G:98:HIS:O	13:G:101:ILE:HG12	2.04	0.57
13:G:108:MET:HG3	13:G:110:CYS:N	2.19	0.57
1:A:268:ALA:O	1:A:273:GLU:N	2.37	0.57
1:A:294:LEU:CD1	1:A:393:TYR:HB3	2.35	0.57
2:B:18:LEU:CD2	8:O:648:ARG:CZ	2.83	0.57
3:C:182:LEU:HB3	3:C:219:ILE:CG2	2.34	0.57
4:D:6:ARG:HG2	4:D:47:ALA:HB2	1.85	0.57
4:D:52:MET:HB2	4:D:66:LEU:HD21	1.86	0.57
4:D:236:ALA:C	4:D:242:ARG:HD2	2.25	0.57
5:E:32:ASP:HB3	5:E:35:GLN:HB3	1.87	0.57
5:E:315:ILE:HG21	7:H:204:VAL:CG2	2.33	0.57
6:F:155:ASN:O	6:F:158:THR:HG22	2.05	0.57
8:O:567:ASN:CA	11:R:23:GLU:CD	2.73	0.57
9:P:11:LYS:NZ	9:P:91:GLU:OE2	2.30	0.57
9:P:48:ASP:OD1	9:P:88:LEU:HD13	2.04	0.57
12:V:73:GLN:N	12:V:140:LEU:C	2.57	0.57
12:V:180:ILE:HB	12:V:184:LEU:CB	2.34	0.57
1:A:291:LEU:HD12	1:A:294:LEU:CB	2.34	0.57
1:A:456:HIS:O	1:A:458:LYS:NZ	2.21	0.57
2:B:75:MET:O	2:B:79:ASN:ND2	2.37	0.57
2:B:80:PHE:HB3	2:B:85:PHE:HE1	1.68	0.57
2:B:359:LEU:HD21	2:B:378:LEU:HD22	1.86	0.57
2:B:367:THR:O	2:B:411:LEU:N	2.35	0.57
3:C:112:VAL:HG21	3:C:147:GLN:NE2	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:214:MET:HA	3:C:248:ILE:CG2	2.33	0.57
3:C:214:MET:CA	3:C:248:ILE:HG12	2.34	0.57
4:D:72:HIS:O	4:D:76:LEU:HG	2.05	0.57
4:D:212:SER:HA	4:D:222:ARG:CB	2.35	0.57
4:D:306:GLU:HA	4:D:328:LEU:CD1	2.35	0.57
5:E:35:GLN:HE21	5:E:39:ILE:HD12	1.69	0.57
5:E:86:ASP:HB2	5:E:91:ILE:HD11	1.86	0.57
6:F:131:PRO:N	6:F:153:LYS:HE3	2.20	0.57
8:O:55:GLU:HB3	8:O:136:LEU:HD11	1.85	0.57
8:O:58:TYR:OH	8:O:142:LEU:HB2	2.05	0.57
8:O:594:VAL:HA	8:O:598:GLU:OE1	2.04	0.57
8:O:697:ASN:HA	8:O:718:ILE:HD11	1.87	0.57
9:P:100:PRO:HD3	10:Q:85:GLU:CA	2.25	0.57
12:V:86:PRO:O	12:V:98:TYR:N	2.38	0.57
13:G:36:GLU:HA	13:G:95:LYS:NZ	2.20	0.57
13:G:75:TYR:HE2	13:G:120:LEU:O	1.87	0.57
13:G:125:LEU:HD12	13:G:129:GLU:OE1	2.04	0.57
1:A:199:ARG:HA	1:A:202:ASP:OD2	2.05	0.57
1:A:444:ILE:CG2	3:C:313:THR:HG22	2.34	0.57
2:B:23:ASP:N	8:O:652:LYS:HZ2	2.02	0.57
2:B:218:TYR:HA	2:B:221:SER:HB3	1.87	0.57
2:B:221:SER:HA	2:B:224:ILE:CD1	2.35	0.57
2:B:274:THR:O	2:B:277:LEU:HG	2.04	0.57
2:B:365:PRO:CG	4:D:344:THR:HG22	2.34	0.57
3:C:43:ASP:OD1	3:C:62:LEU:HD11	2.04	0.57
3:C:91:GLU:OE2	3:C:94:ARG:NH2	2.26	0.57
3:C:341:MET:CA	3:C:346:GLU:HB2	2.33	0.57
4:D:89:LEU:HD12	4:D:110:LEU:CD2	2.34	0.57
4:D:192:ALA:HB1	4:D:208:TYR:CZ	2.40	0.57
5:E:60:LEU:CD1	5:E:63:LEU:HD12	2.35	0.57
5:E:272:LYS:O	5:E:303:ALA:HB2	2.05	0.57
6:F:309:PHE:CD2	6:F:314:ASP:HB2	2.39	0.57
7:H:54:ARG:O	7:H:58:LYS:HG2	2.04	0.57
8:O:563:GLU:CG	11:R:27:TRP:CB	2.47	0.57
8:O:618:LEU:HB3	8:O:628:GLU:OE2	2.05	0.57
9:P:11:LYS:HG2	9:P:91:GLU:OE2	2.05	0.57
11:R:41:ASN:HA	11:R:49:ILE:HB	1.87	0.57
13:G:99:LEU:HD22	13:G:160:ARG:CD	2.35	0.57
1:A:142:THR:HG21	1:A:160:PRO:HD3	1.86	0.57
1:A:272:GLY:C	1:A:277:GLN:HB2	2.24	0.57
2:B:285:MET:HG3	2:B:350:LEU:HD11	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:368:ARG:CD	4:D:353:ASP:CG	2.72	0.57
2:B:427:TRP:CD1	5:E:270:SER:CB	2.88	0.57
3:C:97:THR:C	3:C:175:ALA:HB2	2.25	0.57
4:D:41:GLN:NE2	4:D:76:LEU:HD22	2.20	0.57
4:D:169:ASN:O	4:D:173:LEU:HG	2.05	0.57
4:D:265:GLU:O	4:D:271:ARG:NH2	2.33	0.57
4:D:320:THR:CA	4:D:358:ILE:HG12	2.35	0.57
5:E:75:LEU:HD22	5:E:101:GLU:CG	2.29	0.57
5:E:77:VAL:CB	5:E:98:LEU:H	2.17	0.57
5:E:172:PRO:O	5:E:176:ILE:HG13	2.05	0.57
5:E:233:LEU:HD23	6:F:52:SER:HB2	1.85	0.57
6:F:69:ILE:HG23	6:F:124:TRP:HB2	1.86	0.57
8:O:17:LEU:HD22	8:O:57:LEU:CD1	2.35	0.57
8:O:54:GLY:C	8:O:136:LEU:HD21	2.25	0.57
8:O:308:LEU:O	8:O:312:ILE:HD12	2.05	0.57
8:O:318:HIS:HE1	8:O:349:LYS:HE2	1.69	0.57
8:O:394:TYR:O	8:O:398:LEU:N	2.33	0.57
8:O:693:VAL:HG12	8:O:699:LEU:CA	2.33	0.57
8:O:696:HIS:HB3	8:O:739:ASP:OD1	2.05	0.57
8:O:700:ILE:HD12	8:O:718:ILE:CA	2.35	0.57
13:G:49:LEU:O	13:G:52:VAL:HG22	2.05	0.57
13:G:75:TYR:CA	13:G:96:LEU:HD22	2.34	0.57
1:A:301:GLN:O	1:A:304:LYS:HB3	2.05	0.57
2:B:46:ASP:CB	2:B:48:LYS:HE2	2.33	0.57
2:B:101:SER:O	2:B:103:VAL:HG23	2.05	0.57
2:B:372:PRO:HD3	2:B:407:GLN:O	2.04	0.57
2:B:427:TRP:CD1	5:E:270:SER:HB2	2.40	0.57
3:C:134:ASN:HB2	3:C:137:GLN:NE2	2.20	0.57
3:C:198:PHE:HB3	3:C:230:VAL:HG22	1.87	0.57
3:C:210:THR:HB	3:C:244:TYR:CD2	2.40	0.57
3:C:233:ILE:HG23	3:C:297:GLN:O	2.04	0.57
3:C:320:GLN:O	3:C:323:ALA:HB3	2.04	0.57
3:C:348:PHE:HB2	3:C:362:ASP:H	1.70	0.57
4:D:223:LEU:HA	4:D:226:LEU:HB3	1.85	0.57
5:E:54:TYR:HB2	5:E:89:THR:OG1	2.05	0.57
5:E:60:LEU:HB3	5:E:93:MET:O	2.04	0.57
5:E:63:LEU:HA	6:F:44:HIS:HB2	1.87	0.57
5:E:251:SER:O	6:F:223:ALA:CB	2.53	0.57
6:F:109:GLU:HA	6:F:112:PHE:CZ	2.40	0.57
8:O:211:PHE:HZ	8:O:259:TYR:HB3	1.70	0.57
12:V:146:PRO:CA	12:V:147:ILE:HG13	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:433:VAL:HG13	1:A:436:LEU:HG	1.86	0.56
2:B:5:GLU:O	2:B:9:MET:CB	2.53	0.56
2:B:86:PRO:HA	2:B:89:MET:CB	2.34	0.56
3:C:225:LYS:O	3:C:229:LEU:HG	2.05	0.56
3:C:232:LEU:HD21	3:C:238:VAL:CG2	2.34	0.56
3:C:279:VAL:HG21	3:C:295:VAL:CG2	2.35	0.56
3:C:332:GLN:HA	3:C:335:GLU:CG	2.31	0.56
4:D:337:LYS:HG2	4:D:338:ILE:HD13	1.85	0.56
5:E:248:ASN:HB2	6:F:222:ILE:CD1	2.35	0.56
8:O:441:LYS:O	8:O:445:HIS:N	2.35	0.56
8:O:505:ILE:C	11:R:28:ASN:N	2.55	0.56
8:O:660:ASP:CA	8:O:663:GLN:HB3	2.34	0.56
13:G:141:ILE:HG22	13:G:142:GLN:N	2.20	0.56
13:G:144:LYS:HG3	13:G:145:LEU:H	1.69	0.56
1:A:215:SER:HA	1:A:218:LEU:HB3	1.87	0.56
1:A:246:VAL:HG12	1:A:319:LEU:CD2	2.25	0.56
1:A:399:ARG:HA	1:A:402:TYR:CD2	2.39	0.56
1:A:421:ASP:HB3	1:A:424:ARG:HB3	1.87	0.56
2:B:241:GLY:HA2	2:B:244:MET:HB3	1.88	0.56
2:B:306:PRO:O	2:B:309:LEU:HG	2.05	0.56
2:B:329:ILE:HG22	2:B:333:ASN:HD21	1.70	0.56
3:C:77:LEU:HA	3:C:80:GLN:CB	2.33	0.56
3:C:323:ALA:HA	3:C:328:LEU:CB	2.31	0.56
4:D:148:TYR:HB3	4:D:170:ARG:NH1	2.20	0.56
4:D:235:LEU:HD11	4:D:285:LEU:CD2	2.35	0.56
4:D:338:ILE:O	4:D:341:GLN:HB2	2.05	0.56
5:E:89:THR:HG22	5:E:90:MET:O	2.05	0.56
6:F:290:ALA:O	6:F:294:THR:HG23	2.06	0.56
8:O:81:GLU:HA	8:O:84:LEU:CB	2.32	0.56
8:O:385:CYS:O	8:O:388:PRO:HD2	2.05	0.56
8:O:621:LYS:CB	8:O:643:ASN:HB3	2.35	0.56
8:O:688:MET:CG	8:O:731:ILE:HB	2.35	0.56
9:P:37:ARG:HB3	9:P:42:GLN:NE2	2.19	0.56
9:P:68:ARG:HB2	9:P:69:PRO:HD2	1.88	0.56
12:V:60:ARG:CZ	12:V:64:ARG:HB2	2.35	0.56
12:V:171:LYS:O	12:V:175:TYR:N	2.37	0.56
1:A:108:PRO:HA	1:A:111:ARG:HB3	1.86	0.56
1:A:126:PHE:HB2	1:A:210:ASP:O	2.05	0.56
1:A:389:LEU:O	1:A:395:ALA:HB2	2.04	0.56
1:A:486:ALA:HB1	3:C:386:LEU:CD1	2.34	0.56
2:B:21:SER:OG	8:O:652:LYS:CE	2.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:21:SER:CB	8:O:652:LYS:HE2	2.35	0.56
2:B:28:PRO:CD	2:B:29:ASN:N	2.66	0.56
2:B:105:ARG:NH2	8:O:451:MET:HE1	2.14	0.56
2:B:115:ILE:HG22	2:B:119:ILE:HD12	1.88	0.56
2:B:130:GLU:HA	2:B:133:GLU:HG3	1.86	0.56
2:B:292:ASN:HA	2:B:295:ASP:OD2	2.06	0.56
2:B:305:ASP:OD1	2:B:306:PRO:HD2	2.05	0.56
2:B:346:HIS:ND1	2:B:349:GLU:OE1	2.30	0.56
3:C:75:GLU:C	3:C:78:PHE:HB3	2.26	0.56
3:C:137:GLN:HB3	3:C:169:ILE:HA	1.88	0.56
3:C:392:ALA:O	3:C:395:GLN:HB3	2.06	0.56
4:D:52:MET:SD	4:D:62:SER:HA	2.45	0.56
4:D:114:TYR:CE2	4:D:126:VAL:HG21	2.39	0.56
4:D:260:ALA:O	4:D:264:LEU:N	2.31	0.56
4:D:260:ALA:HB2	4:D:284:MET:HE1	1.87	0.56
4:D:275:GLY:O	4:D:278:LEU:HB3	2.05	0.56
5:E:25:ILE:CD1	5:E:232:SER:HB3	2.34	0.56
5:E:76:GLU:CB	5:E:103:THR:HB	2.32	0.56
5:E:82:LEU:HG	5:E:117:MET:SD	2.45	0.56
5:E:123:ASN:HB2	6:F:111:GLN:NE2	2.20	0.56
5:E:129:ARG:NH2	6:F:88:GLU:HB2	2.19	0.56
5:E:200:PRO:HD2	5:E:222:TYR:CB	2.36	0.56
5:E:248:ASN:HA	6:F:222:ILE:O	2.05	0.56
5:E:250:LEU:N	6:F:225:HIS:CG	2.74	0.56
5:E:299:LYS:HG2	5:E:302:LYS:CD	2.33	0.56
5:E:327:LEU:HA	5:E:331:ILE:CG1	2.36	0.56
6:F:203:VAL:HA	6:F:206:MET:CG	2.35	0.56
6:F:248:GLY:O	6:F:250:VAL:C	2.43	0.56
7:H:68:ASN:OD1	7:H:70:GLU:HB2	2.04	0.56
7:H:130:ALA:CB	7:H:141:VAL:HG13	2.35	0.56
8:O:213:THR:O	8:O:217:GLU:HG2	2.05	0.56
8:O:324:LEU:HD12	8:O:375:VAL:HG22	1.87	0.56
8:O:387:ALA:HB3	8:O:388:PRO:HD3	1.85	0.56
8:O:401:LYS:HG2	8:O:449:MET:HA	1.86	0.56
8:O:409:ASN:HA	8:O:412:GLU:CB	2.31	0.56
8:O:505:ILE:HG22	11:R:27:TRP:CG	2.40	0.56
8:O:512:LEU:CA	11:R:32:LEU:HB3	2.35	0.56
8:O:517:TRP:HE3	8:O:518:PRO:HD2	1.70	0.56
8:O:588:PHE:CZ	8:O:599:LEU:HD22	2.39	0.56
8:O:657:MET:O	8:O:658:GLN:C	2.44	0.56
8:O:688:MET:HE3	8:O:730:TYR:HB3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:732:GLU:HG3	8:O:733:ARG:N	2.18	0.56
9:P:8:ARG:HH22	10:Q:14:LYS:CB	2.16	0.56
9:P:32:GLU:HG3	9:P:36:LYS:HA	1.86	0.56
9:P:99:LEU:HD12	10:Q:84:THR:OG1	2.04	0.56
13:G:69:LEU:HD22	13:G:85:LEU:CD1	2.33	0.56
1:A:277:GLN:CG	1:A:280:ALA:HA	2.31	0.56
1:A:316:PHE:CD2	1:A:320:LEU:HB3	2.40	0.56
1:A:339:ARG:HG2	1:A:343:GLN:NE2	2.16	0.56
2:B:145:ASP:HB3	2:B:146:ARG:HH11	1.70	0.56
3:C:101:ALA:HB1	3:C:140:SER:CB	2.34	0.56
3:C:317:LEU:CD2	3:C:322:MET:HB2	2.36	0.56
4:D:45:LEU:HD22	4:D:69:PHE:HE1	1.71	0.56
4:D:224:GLU:OE2	4:D:228:HIS:NE2	2.39	0.56
4:D:273:ILE:HG23	4:D:277:GLN:CB	2.35	0.56
4:D:286:MET:N	4:D:289:GLN:HB2	2.21	0.56
5:E:56:LYS:NZ	5:E:86:ASP:OD2	2.37	0.56
5:E:252:SER:OG	6:F:220:HIS:O	2.22	0.56
6:F:41:VAL:O	6:F:75:LYS:HD3	2.06	0.56
6:F:124:TRP:CZ3	6:F:126:THR:HB	2.41	0.56
7:H:34:PRO:HG3	7:H:64:ILE:CG2	2.35	0.56
7:H:107:GLU:HA	7:H:110:ARG:HE	1.68	0.56
8:O:73:HIS:HB2	8:O:150:LEU:HD11	1.87	0.56
8:O:232:CYS:CA	8:O:235:TYR:HB3	2.34	0.56
8:O:386:LYS:CA	8:O:389:GLU:HB2	2.33	0.56
8:O:567:ASN:O	11:R:21:ARG:CA	2.46	0.56
8:O:720:LYS:HA	8:O:723:GLU:CG	2.34	0.56
9:P:4:PHE:CG	10:Q:62:ASN:CG	2.77	0.56
9:P:20:GLU:HA	9:P:57:LEU:CB	2.35	0.56
9:P:69:PRO:HB3	10:Q:66:LYS:HG3	1.87	0.56
12:V:117:TRP:HB2	12:V:136:PHE:O	2.06	0.56
12:V:184:LEU:HD23	12:V:187:ASP:OD2	2.06	0.56
13:G:112:PRO:HA	13:G:150:GLN:O	2.06	0.56
1:A:202:ASP:HA	1:A:221:TYR:CZ	2.41	0.56
1:A:214:LEU:HD23	1:A:214:LEU:H	1.70	0.56
1:A:340:GLN:HA	1:A:343:GLN:OE1	2.05	0.56
1:A:454:ASP:HB2	3:C:315:LEU:HD23	1.86	0.56
2:B:277:LEU:O	2:B:281:VAL:HG23	2.05	0.56
2:B:280:LEU:HG	2:B:284:ASN:HD21	1.71	0.56
2:B:322:ASP:HB3	2:B:325:GLU:HG2	1.86	0.56
3:C:28:ILE:HG12	3:C:31:SER:HB2	1.87	0.56
3:C:283:SER:HA	3:C:286:PHE:HB2	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:81:MET:HE3	5:E:136:TRP:H	1.70	0.56
5:E:269:LEU:CD1	5:E:272:LYS:HD2	2.35	0.56
7:H:117:ALA:CB	7:H:136:PHE:HB3	2.35	0.56
7:H:128:ILE:HG12	7:H:129:ILE:O	2.06	0.56
8:O:84:LEU:HG	8:O:159:LEU:HD12	1.87	0.56
8:O:131:ASP:HB2	8:O:135:PRO:CB	2.34	0.56
8:O:168:LYS:HB3	8:O:171:ARG:HH12	1.70	0.56
8:O:485:ASP:HA	8:O:488:ASN:ND2	2.20	0.56
8:O:528:ALA:C	8:O:529:ILE:C	2.64	0.56
8:O:727:ASP:N	11:R:45:CYS:CA	2.55	0.56
9:P:33:GLY:O	9:P:36:LYS:NZ	2.24	0.56
13:G:138:THR:O	13:G:139:ASP:HB2	2.06	0.56
1:A:294:LEU:O	1:A:299:TYR:OH	2.23	0.56
1:A:360:PRO:O	1:A:363:ARG:HB3	2.06	0.56
2:B:20:TYR:C	8:O:652:LYS:HG2	2.22	0.56
2:B:172:LEU:HD22	2:B:197:ILE:CD1	2.35	0.56
2:B:274:THR:HA	2:B:277:LEU:HD21	1.86	0.56
2:B:333:ASN:HB3	2:B:337:ILE:CB	2.34	0.56
4:D:105:SER:HA	4:D:108:GLN:HB2	1.86	0.56
5:E:224:LEU:O	5:E:226:VAL:HG23	2.05	0.56
5:E:255:LEU:HG	5:E:317:GLY:O	2.06	0.56
6:F:181:MET:O	6:F:182:LEU:HD23	2.05	0.56
7:H:37:TYR:HE2	7:H:64:ILE:HB	1.71	0.56
7:H:43:LEU:O	7:H:47:HIS:ND1	2.34	0.56
7:H:80:ARG:HB3	7:H:89:ILE:CG1	2.25	0.56
7:H:201:THR:HG23	13:G:195:ALA:HB1	1.77	0.56
8:O:113:ILE:CA	8:O:117:LYS:HD2	2.31	0.56
8:O:117:LYS:HD3	8:O:136:LEU:CD1	2.33	0.56
8:O:692:LYS:CB	8:O:743:TYR:HB2	2.35	0.56
12:V:89:LEU:HB2	12:V:198:LEU:HD22	1.88	0.56
1:A:100:LEU:HD13	1:A:118:ALA:N	2.19	0.56
1:A:164:THR:HA	1:A:167:VAL:HB	1.86	0.56
1:A:225:ARG:HG3	1:A:237:MET:CE	2.35	0.56
1:A:281:ILE:O	1:A:285:LEU:HG	2.05	0.56
2:B:25:ASN:O	2:B:28:PRO:HD3	1.94	0.56
2:B:172:LEU:O	2:B:176:HIS:ND1	2.38	0.56
2:B:373:PHE:CD2	4:D:354:GLN:NE2	2.74	0.56
2:B:431:LEU:O	2:B:434:LEU:HB3	2.06	0.56
3:C:171:LYS:HB2	3:C:176:TYR:CD2	2.41	0.56
3:C:342:ILE:CD1	3:C:351:ILE:HG13	2.36	0.56
4:D:217:VAL:HG13	4:D:221:GLU:OE1	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:80:LEU:HD21	5:E:133:ALA:CB	2.36	0.56
5:E:82:LEU:N	5:E:94:ASP:HB3	2.18	0.56
5:E:125:LYS:HB3	5:E:130:LEU:HD23	1.85	0.56
5:E:194:LYS:HG3	5:E:195:PRO:HD2	1.88	0.56
5:E:279:GLN:CD	5:E:298:ASP:CB	2.58	0.56
6:F:307:ASN:O	6:F:311:VAL:HG23	2.06	0.56
8:O:71:HIS:O	8:O:74:LYS:HB2	2.06	0.56
8:O:178:GLN:HB2	8:O:252:LYS:HB3	1.87	0.56
8:O:508:GLN:CB	11:R:30:VAL:HG22	2.35	0.56
8:O:577:VAL:HG12	8:O:653:ILE:CD1	2.35	0.56
8:O:620:VAL:CG1	8:O:644:PHE:HA	2.36	0.56
8:O:626:ASP:HB2	8:O:636:SER:CB	2.35	0.56
12:V:78:ASN:HB2	12:V:101:LEU:HD13	1.87	0.56
12:V:193:ASN:H	12:V:196:LYS:HD2	1.71	0.56
1:A:97:ILE:HG13	1:A:121:PHE:HD2	1.70	0.56
1:A:371:GLU:HB3	1:A:373:LYS:HG3	1.88	0.56
1:A:483:GLN:CG	3:C:382:LYS:HD2	2.35	0.56
1:A:488:ALA:HB2	3:C:203:TYR:HE1	1.70	0.56
1:A:492:ARG:NH1	3:C:212:PRO:HD3	2.20	0.56
2:B:24:SER:OG	8:O:652:LYS:NZ	2.38	0.56
2:B:157:LYS:HD2	2:B:160:LEU:HD11	1.86	0.56
2:B:315:VAL:O	2:B:318:TYR:HB2	2.06	0.56
2:B:359:LEU:HD11	2:B:378:LEU:HD21	1.88	0.56
3:C:39:LEU:HD21	3:C:64:VAL:HG11	1.88	0.56
3:C:301:SER:HA	3:C:304:LYS:CD	2.34	0.56
4:D:211:LEU:HD23	4:D:214:LYS:HZ3	1.70	0.56
4:D:388:ILE:HG22	4:D:393:PRO:O	2.05	0.56
5:E:35:GLN:HA	5:E:38:GLU:OE1	2.05	0.56
5:E:124:ALA:O	5:E:129:ARG:HB2	2.06	0.56
5:E:242:TRP:CH2	6:F:219:GLU:N	2.65	0.56
5:E:250:LEU:HD22	13:G:185:LEU:HD21	1.85	0.56
6:F:43:LEU:HD22	6:F:84:MET:CB	2.35	0.56
6:F:168:PHE:CE1	6:F:185:GLU:HB2	2.40	0.56
6:F:255:GLU:O	6:F:259:GLU:HB2	2.06	0.56
7:H:194:GLU:O	7:H:198:ALA:N	2.38	0.56
8:O:103:CYS:O	10:Q:36:PRO:HD2	2.02	0.56
8:O:522:ALA:H	8:O:558:TYR:H	1.52	0.56
8:O:608:LYS:HG3	8:O:630:GLU:OE1	2.06	0.56
8:O:622:MET:O	8:O:641:ASN:N	2.39	0.56
8:O:695:ARG:HD3	8:O:740:GLU:CG	2.35	0.56
12:V:73:GLN:HB3	12:V:141:ASN:N	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:G:138:THR:HG23	13:G:140:ILE:H	1.71	0.56
1:A:82:LEU:HD13	1:A:387:ASN:OD1	2.06	0.56
1:A:268:ALA:N	1:A:273:GLU:OE2	2.36	0.56
1:A:271:ARG:O	1:A:275:ASP:N	2.37	0.56
1:A:459:ILE:HB	1:A:461:TYR:OH	2.05	0.56
2:B:157:LYS:NZ	2:B:196:GLU:OE2	2.39	0.56
2:B:194:LEU:CA	2:B:197:ILE:HD12	2.35	0.56
4:D:395:TRP:HA	4:D:398:GLN:HG2	1.88	0.56
4:D:406:GLN:O	6:F:236:LYS:HG2	2.06	0.56
5:E:146:TRP:CH2	5:E:206:ILE:HD12	2.40	0.56
5:E:271:GLU:O	5:E:275:GLN:N	2.38	0.56
6:F:41:VAL:HG11	6:F:73:ILE:CG1	2.36	0.56
8:O:245:ASP:HA	8:O:248:ILE:HD12	1.88	0.56
8:O:325:ARG:O	8:O:330:LEU:HG	2.05	0.56
8:O:400:LYS:HB2	8:O:447:LEU:HD22	1.88	0.56
8:O:437:ARG:HH22	8:O:519:LEU:HD23	1.70	0.56
8:O:566:MET:CA	11:R:18:LYS:HB2	2.30	0.56
8:O:694:LEU:HD21	8:O:699:LEU:HD21	1.88	0.56
11:R:79:PHE:CE2	11:R:95:PRO:HG2	2.41	0.56
12:V:182:ARG:HA	12:V:185:TYR:CD2	2.41	0.56
13:G:140:ILE:HD13	13:G:158:ILE:N	2.21	0.56
2:B:37:TYR:HE2	2:B:60:LEU:HD12	1.71	0.56
2:B:156:GLY:HA2	2:B:159:TYR:HB2	1.88	0.56
2:B:212:LYS:O	2:B:215:LYS:HB3	2.05	0.56
3:C:78:PHE:CZ	3:C:120:GLY:HA2	2.41	0.56
3:C:94:ARG:NH1	3:C:131:MET:HA	2.21	0.56
3:C:400:ASN:OD1	6:F:313:TYR:OH	2.24	0.56
4:D:73:LEU:HA	4:D:76:LEU:HD12	1.87	0.56
4:D:82:LYS:CB	4:D:113:ILE:HG21	2.36	0.56
4:D:174:LEU:HA	4:D:177:GLU:HB2	1.87	0.56
4:D:263:ILE:O	4:D:267:MET:HG2	2.06	0.56
4:D:306:GLU:HA	4:D:328:LEU:HD13	1.86	0.56
4:D:332:ALA:O	4:D:336:GLU:HG2	2.04	0.56
5:E:245:TYR:HH	6:F:222:ILE:CG1	1.84	0.56
6:F:90:LEU:HD23	6:F:101:ASP:HB3	1.88	0.56
8:O:24:VAL:HG13	8:O:101:MET:HG3	1.87	0.56
8:O:352:GLN:HA	8:O:355:ASN:OD1	2.06	0.56
8:O:459:ASN:O	8:O:463:GLN:HG3	2.05	0.56
8:O:700:ILE:HD12	8:O:718:ILE:HA	1.88	0.56
8:O:724:VAL:HG12	11:R:46:ARG:NH2	2.21	0.56
12:V:89:LEU:CB	12:V:116:LEU:HD22	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:G:70:PHE:HD1	13:G:99:LEU:CD1	2.17	0.56
13:G:133:ILE:HA	13:G:136:VAL:HG22	1.88	0.56
1:A:294:LEU:HD13	1:A:393:TYR:HB3	1.88	0.55
2:B:17:ASP:HB3	2:B:64:LYS:HD3	1.77	0.55
2:B:55:GLN:O	2:B:59:GLU:HG3	2.05	0.55
2:B:237:ILE:HG13	2:B:238:ARG:HD2	1.88	0.55
3:C:12:VAL:HG21	3:C:54:HIS:CD2	2.40	0.55
3:C:153:LYS:C	7:H:59:ARG:HD3	2.27	0.55
3:C:230:VAL:O	3:C:234:LEU:HB3	2.06	0.55
3:C:321:ASP:O	3:C:325:ARG:HD3	2.06	0.55
4:D:208:TYR:HB3	4:D:225:ALA:C	2.25	0.55
4:D:370:TRP:NE1	4:D:374:ILE:HD11	2.20	0.55
4:D:377:LEU:HD21	6:F:263:LEU:CD1	2.35	0.55
5:E:144:GLY:N	5:E:172:PRO:HD2	2.21	0.55
5:E:312:ILE:O	5:E:316:HIS:ND1	2.28	0.55
8:O:32:ARG:O	8:O:35:TRP:HB2	2.06	0.55
8:O:65:LEU:HD13	8:O:142:LEU:CG	2.36	0.55
8:O:148:ARG:O	8:O:151:MET:HB2	2.05	0.55
8:O:377:ASN:HA	8:O:384:VAL:HG11	1.88	0.55
8:O:563:GLU:N	8:O:582:MET:SD	2.73	0.55
8:O:614:ILE:CB	8:O:628:GLU:HA	2.36	0.55
11:R:41:ASN:CA	11:R:49:ILE:HB	2.36	0.55
12:V:60:ARG:HB3	12:V:91:PHE:CB	2.35	0.55
12:V:113:ARG:HG3	12:V:139:SER:CB	2.36	0.55
13:G:43:PHE:HB3	13:G:47:LEU:HB2	1.88	0.55
13:G:149:ASN:HB3	13:G:151:LEU:CG	2.36	0.55
1:A:95:MET:CE	1:A:249:GLN:HG2	2.36	0.55
1:A:104:ALA:CB	1:A:115:LEU:HG	2.35	0.55
1:A:326:ALA:HA	1:A:352:PHE:CZ	2.40	0.55
1:A:384:MET:O	1:A:388:LEU:HG	2.06	0.55
1:A:454:ASP:HB3	1:A:457:SER:CB	2.36	0.55
2:B:80:PHE:HB2	2:B:118:TYR:CE2	2.41	0.55
2:B:143:LYS:HE3	8:O:408:GLU:CG	2.36	0.55
2:B:192:THR:CB	8:O:459:ASN:HD22	2.19	0.55
2:B:294:PHE:CE2	2:B:300:LYS:HG3	2.42	0.55
2:B:430:GLN:HG3	5:E:270:SER:OG	2.05	0.55
4:D:338:ILE:HG23	4:D:341:GLN:OE1	2.07	0.55
5:E:65:MET:SD	5:E:170:ILE:HD12	2.45	0.55
5:E:246:TRP:CE2	6:F:232:HIS:CD2	2.89	0.55
5:E:269:LEU:HD12	5:E:272:LYS:HD2	1.87	0.55
6:F:72:LEU:HD11	6:F:152:LEU:N	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:81:ILE:CD1	6:F:186:LEU:HD23	2.36	0.55
6:F:307:ASN:HA	6:F:310:ASN:ND2	2.21	0.55
7:H:86:PHE:HB3	7:H:135:ALA:O	2.06	0.55
8:O:49:TYR:OH	10:Q:92:LEU:CG	2.52	0.55
8:O:49:TYR:O	12:V:182:ARG:NH2	2.33	0.55
8:O:87:TYR:CZ	8:O:150:LEU:HD22	2.42	0.55
8:O:93:GLU:HA	8:O:96:LYS:HE3	1.88	0.55
8:O:105:TYR:HE2	8:O:138:GLU:HA	1.70	0.55
8:O:384:VAL:O	8:O:387:ALA:HB3	2.06	0.55
9:P:49:GLN:NE2	9:P:59:GLU:O	2.39	0.55
9:P:51:LEU:HD23	9:P:55:LYS:HZ3	1.71	0.55
13:G:76:PRO:HG3	13:G:119:ASP:CG	2.26	0.55
1:A:130:MET:HA	1:A:133:GLU:HB3	1.88	0.55
1:A:247:TYR:CD1	1:A:319:LEU:HD22	2.41	0.55
1:A:336:THR:O	1:A:408:ARG:NH2	2.40	0.55
1:A:385:LYS:HG3	1:A:402:TYR:HH	1.71	0.55
1:A:472:PHE:HB3	3:C:367:TYR:HE2	1.71	0.55
2:B:76:ILE:HG23	2:B:88:MET:CG	2.36	0.55
2:B:324:THR:HB	2:B:328:LYS:NZ	2.22	0.55
3:C:121:ILE:HG22	3:C:125:LYS:HD3	1.88	0.55
3:C:233:ILE:HA	3:C:301:SER:CB	2.31	0.55
4:D:148:TYR:HA	4:D:170:ARG:NH2	2.21	0.55
5:E:249:THR:CB	6:F:225:HIS:CD2	2.89	0.55
6:F:43:LEU:HD23	6:F:191:ALA:N	2.18	0.55
6:F:271:SER:HA	6:F:276:LYS:HE3	1.87	0.55
8:O:56:ARG:O	8:O:59:THR:HB	2.06	0.55
8:O:93:GLU:HA	8:O:96:LYS:CE	2.36	0.55
8:O:215:THR:HG23	8:O:263:ILE:HD13	1.86	0.55
8:O:535:LYS:HG3	8:O:538:GLN:NE2	2.22	0.55
8:O:610:LEU:HD12	8:O:613:THR:CB	2.34	0.55
9:P:57:LEU:HA	9:P:60:CYS:CB	2.35	0.55
1:A:82:LEU:HB2	1:A:390:LEU:HD13	1.88	0.55
1:A:195:GLU:OE2	1:A:199:ARG:NH2	2.39	0.55
1:A:304:LYS:O	1:A:308:LEU:HG	2.07	0.55
1:A:439:GLU:O	1:A:443:LEU:HG	2.06	0.55
2:B:14:GLU:C	2:B:18:LEU:CD1	2.72	0.55
2:B:155:LEU:O	2:B:158:LEU:HB2	2.05	0.55
2:B:159:TYR:O	2:B:163:GLU:N	2.39	0.55
2:B:274:THR:HA	2:B:277:LEU:CD2	2.36	0.55
3:C:294:LEU:HD23	3:C:297:GLN:NE2	2.21	0.55
4:D:34:ILE:HD13	4:D:72:HIS:CD2	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:180:ASN:O	4:D:184:GLN:HG3	2.06	0.55
4:D:318:ASN:HA	4:D:359:VAL:HG13	1.88	0.55
5:E:253:SER:OG	5:E:256:LEU:HD21	2.06	0.55
5:E:331:ILE:O	13:G:180:GLY:HA2	2.06	0.55
5:E:332:ASN:HB2	13:G:180:GLY:H	1.70	0.55
6:F:43:LEU:HD23	6:F:191:ALA:HB2	1.89	0.55
6:F:43:LEU:CG	6:F:84:MET:HB3	2.37	0.55
6:F:135:ASP:OD2	6:F:153:LYS:NZ	2.36	0.55
6:F:291:TYR:HA	6:F:294:THR:OG1	2.07	0.55
7:H:17:LEU:HD11	7:H:44:TYR:CE1	2.42	0.55
7:H:33:THR:CG2	7:H:35:PRO:HD2	2.25	0.55
8:O:319:ILE:HA	8:O:350:PHE:CZ	2.41	0.55
8:O:491:ASN:O	8:O:495:LYS:CD	2.51	0.55
9:P:100:PRO:HG3	10:Q:88:LEU:CD2	2.36	0.55
11:R:84:ILE:HD13	11:R:101:TRP:N	2.21	0.55
12:V:89:LEU:CD2	12:V:93:GLY:HA2	2.36	0.55
13:G:102:VAL:HG21	13:G:160:ARG:CZ	2.36	0.55
13:G:129:GLU:HG3	13:G:145:LEU:HD22	1.87	0.55
1:A:80:PRO:HA	1:A:110:LEU:CD1	2.36	0.55
2:B:211:ASN:OD1	2:B:214:LEU:HD12	2.06	0.55
2:B:323:ILE:HA	2:B:326:PHE:CE1	2.42	0.55
3:C:306:ASN:CB	3:C:326:VAL:HA	2.34	0.55
3:C:341:MET:HB3	3:C:347:ILE:CG2	2.36	0.55
3:C:391:LYS:HZ1	7:H:209:ASN:HD22	1.54	0.55
4:D:33:ALA:HA	4:D:36:LEU:CG	2.36	0.55
4:D:122:ASN:HA	4:D:125:GLN:OE1	2.07	0.55
4:D:270:ASP:HB2	4:D:314:LYS:CE	2.33	0.55
4:D:315:LEU:CD2	13:G:137:TYR:CG	2.87	0.55
4:D:373:GLN:HE21	13:G:155:ASP:CB	1.99	0.55
4:D:388:ILE:HG21	4:D:396:THR:CG2	2.35	0.55
5:E:246:TRP:HZ2	6:F:229:LYS:O	1.80	0.55
5:E:333:ILE:HG13	6:F:267:LEU:O	2.05	0.55
6:F:278:ASP:HA	6:F:281:ASP:OD2	2.07	0.55
7:H:17:LEU:HD13	7:H:43:LEU:CB	2.35	0.55
8:O:42:ILE:HD12	8:O:108:LEU:CD1	2.32	0.55
8:O:159:LEU:HD13	8:O:188:PHE:HZ	1.70	0.55
8:O:308:LEU:HB3	8:O:312:ILE:CD1	2.37	0.55
8:O:460:LYS:HA	8:O:463:GLN:CD	2.27	0.55
8:O:512:LEU:O	8:O:551:ARG:HD2	2.05	0.55
11:R:19:LYS:HG2	11:R:23:GLU:OE2	2.07	0.55
12:V:80:SER:CB	12:V:153:LEU:HB2	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:V:81:PRO:CG	12:V:153:LEU:HD22	2.37	0.55
1:A:83:ASP:OD1	1:A:85:GLU:HB2	2.07	0.55
1:A:138:LEU:HG	1:A:160:PRO:CA	2.35	0.55
1:A:230:SER:HB3	1:A:232:LYS:HE2	1.89	0.55
1:A:353:LYS:HA	1:A:356:LEU:CG	2.36	0.55
1:A:387:ASN:CA	1:A:390:LEU:HB2	2.35	0.55
1:A:441:THR:O	1:A:445:LEU:HG	2.06	0.55
2:B:305:ASP:HB3	2:B:308:ILE:HG13	1.88	0.55
2:B:314:LEU:HD22	2:B:326:PHE:CB	2.37	0.55
2:B:409:LEU:HG	2:B:410:GLU:O	2.06	0.55
3:C:222:GLU:HA	3:C:225:LYS:HD2	1.89	0.55
3:C:309:ARG:HA	3:C:312:LYS:NZ	2.21	0.55
3:C:328:LEU:HD13	3:C:334:ALA:HB1	1.88	0.55
3:C:352:ASN:HD22	3:C:357:MET:HB2	1.71	0.55
3:C:378:GLN:HA	3:C:381:LEU:HD12	1.88	0.55
4:D:127:LEU:HA	4:D:130:ILE:CD1	2.36	0.55
4:D:306:GLU:OE2	4:D:338:ILE:HB	2.06	0.55
5:E:246:TRP:CH2	6:F:232:HIS:N	2.50	0.55
5:E:321:GLN:HB2	6:F:282:GLN:HE22	1.72	0.55
8:O:105:TYR:CE2	8:O:138:GLU:HA	2.41	0.55
8:O:344:LEU:HD21	8:O:418:PHE:CE1	2.41	0.55
8:O:505:ILE:HG21	8:O:533:LEU:HD21	1.88	0.55
8:O:527:PHE:CG	8:O:529:ILE:HD12	2.41	0.55
8:O:643:ASN:OD1	8:O:644:PHE:N	2.39	0.55
8:O:688:MET:CE	8:O:725:LEU:CG	2.83	0.55
8:O:696:HIS:HB3	8:O:739:ASP:CG	2.27	0.55
9:P:78:ALA:HB1	9:P:86:GLU:HB3	1.88	0.55
12:V:145:GLN:HB2	12:V:146:PRO:HD2	1.89	0.55
13:G:129:GLU:CA	13:G:132:ILE:HG13	2.36	0.55
1:A:125:THR:HG22	1:A:209:LEU:HD21	1.88	0.55
2:B:10:CYS:N	2:B:70:LYS:HE2	2.21	0.55
2:B:150:LYS:HD3	2:B:154:LYS:HZ2	1.71	0.55
2:B:297:GLN:CD	11:R:70:VAL:CG1	2.42	0.55
2:B:325:GLU:O	2:B:329:ILE:HD12	2.07	0.55
2:B:399:HIS:H	2:B:411:LEU:HD12	1.72	0.55
3:C:138:LEU:HB3	3:C:169:ILE:CG2	2.36	0.55
3:C:186:TYR:O	3:C:190:MET:HG3	2.07	0.55
4:D:262:GLY:O	4:D:265:GLU:HB3	2.06	0.55
4:D:285:LEU:HB3	4:D:289:GLN:O	2.07	0.55
5:E:147:LEU:CD2	5:E:151:ASP:HB3	2.36	0.55
5:E:246:TRP:HA	6:F:219:GLU:HB3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:306:VAL:O	6:F:309:PHE:HB3	2.07	0.55
8:O:130:VAL:HA	8:O:137:MET:SD	2.47	0.55
8:O:169:ASN:HB3	8:O:173:GLY:HA3	1.88	0.55
8:O:189:VAL:O	8:O:192:GLU:HG2	2.07	0.55
8:O:286:ILE:HD11	8:O:315:LEU:HD22	1.89	0.55
8:O:568:TYR:O	11:R:20:LYS:CB	2.50	0.55
9:P:15:PHE:CZ	10:Q:55:GLU:HA	2.42	0.55
12:V:82:ARG:HG2	12:V:123:GLY:HA3	1.88	0.55
12:V:205:ARG:CZ	12:V:206:ILE:HD11	2.36	0.55
13:G:34:VAL:CG1	13:G:43:PHE:HZ	2.15	0.55
1:A:138:LEU:CD2	1:A:162:LEU:HB2	2.37	0.55
1:A:387:ASN:HA	1:A:390:LEU:CB	2.34	0.55
1:A:421:ASP:CA	1:A:459:ILE:HG23	2.32	0.55
1:A:466:ASP:OD2	1:A:469:SER:HB2	2.07	0.55
2:B:18:LEU:HD22	8:O:648:ARG:NE	2.21	0.55
2:B:63:GLU:HA	2:B:69:PHE:CE2	2.41	0.55
2:B:116:LEU:HD23	2:B:128:LEU:CD1	2.27	0.55
2:B:295:ASP:OD1	2:B:300:LYS:HD2	2.07	0.55
3:C:74:PHE:HB2	3:C:111:LEU:CD2	2.37	0.55
3:C:286:PHE:HB3	3:C:292:MET:CE	2.37	0.55
4:D:252:ASP:OD1	4:D:253:GLU:N	2.39	0.55
4:D:385:LEU:HD21	6:F:237:LEU:CD1	2.37	0.55
5:E:119:ALA:O	5:E:122:GLU:HB3	2.07	0.55
5:E:332:ASN:ND2	13:G:180:GLY:H	1.99	0.55
6:F:54:HIS:CD2	6:F:58:MET:HG2	2.42	0.55
6:F:55:TRP:HD1	6:F:127:THR:HG1	1.55	0.55
6:F:135:ASP:HB3	6:F:151:PHE:CZ	2.42	0.55
7:H:68:ASN:HB3	7:H:71:LEU:HB3	1.89	0.55
7:H:122:SER:HB3	7:H:153:TRP:CZ2	2.42	0.55
8:O:81:GLU:CA	8:O:84:LEU:HB2	2.33	0.55
8:O:354:ILE:CD1	8:O:368:LEU:HD22	2.37	0.55
8:O:401:LYS:CG	8:O:449:MET:HA	2.37	0.55
8:O:569:LEU:O	11:R:18:LYS:CG	2.52	0.55
9:P:43:ARG:HE	9:P:88:LEU:HB2	1.71	0.55
1:A:79:ASN:HB3	1:A:390:LEU:CD2	2.36	0.55
1:A:327:ILE:HG13	1:A:359:GLU:OE2	2.06	0.55
1:A:433:VAL:HG13	1:A:436:LEU:CG	2.36	0.55
1:A:435:ALA:HA	1:A:438:ASP:OD2	2.07	0.55
2:B:297:GLN:HG2	11:R:70:VAL:HG11	1.87	0.55
2:B:306:PRO:HA	2:B:309:LEU:CD2	2.36	0.55
3:C:252:PHE:O	3:C:256:LEU:HG	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:293:GLY:O	3:C:297:GLN:HG3	2.06	0.55
4:D:45:LEU:HD22	4:D:69:PHE:CE1	2.41	0.55
4:D:233:THR:HG22	4:D:246:LEU:CG	2.37	0.55
4:D:246:LEU:HD11	4:D:267:MET:HE3	1.88	0.55
5:E:31:TYR:CE1	5:E:131:GLU:HG3	2.41	0.55
5:E:62:LEU:HD21	6:F:199:GLY:HA3	1.89	0.55
5:E:149:GLY:HA2	5:E:213:ASP:OD2	2.07	0.55
5:E:271:GLU:HA	5:E:274:GLU:HB3	1.89	0.55
5:E:282:ARG:HA	5:E:282:ARG:NH1	2.13	0.55
6:F:73:ILE:HG22	6:F:120:GLU:O	2.07	0.55
7:H:73:GLY:O	7:H:77:VAL:HG23	2.07	0.55
7:H:137:VAL:HG23	7:H:139:LEU:HG	1.88	0.55
7:H:148:ILE:HB	7:H:153:TRP:O	2.07	0.55
8:O:4:LYS:HZ2	8:O:47:VAL:HG11	1.72	0.55
8:O:87:TYR:HA	8:O:90:TYR:CD2	2.42	0.55
8:O:106:ARG:NH2	10:Q:27:PRO:O	2.39	0.55
8:O:226:LEU:HB2	8:O:235:TYR:HD1	1.72	0.55
8:O:266:CYS:SG	8:O:269:ARG:HD3	2.47	0.55
8:O:701:GLN:O	8:O:704:ILE:HB	2.07	0.55
9:P:5:LEU:CD2	9:P:73:ALA:HB3	2.37	0.55
9:P:17:ASP:CG	10:Q:65:LEU:CD2	2.70	0.55
13:G:69:LEU:HD21	13:G:96:LEU:HD11	1.86	0.55
13:G:145:LEU:HD12	13:G:145:LEU:H	1.71	0.55
1:A:245:SER:HB3	1:A:254:VAL:HG21	1.88	0.55
1:A:442:GLN:OE1	1:A:446:GLU:HB2	2.07	0.55
2:B:76:ILE:HG22	2:B:80:PHE:CE1	2.41	0.55
2:B:210:ASN:CB	2:B:213:LYS:HE2	2.25	0.55
2:B:369:ILE:HB	2:B:374:ILE:HD11	1.89	0.55
2:B:414:GLN:HA	2:B:416:ARG:CZ	2.37	0.55
3:C:306:ASN:O	3:C:309:ARG:HB3	2.06	0.55
3:C:337:TYR:HA	3:C:340:HIS:CD2	2.42	0.55
4:D:181:GLU:HA	4:D:184:GLN:CD	2.27	0.55
4:D:247:ALA:HA	4:D:268:TYR:CD1	2.42	0.55
5:E:32:ASP:O	5:E:36:GLN:HG2	2.06	0.55
5:E:166:VAL:HG13	5:E:168:VAL:HG23	1.88	0.55
6:F:69:ILE:HD13	6:F:100:ILE:HG12	1.88	0.55
8:O:164:LEU:HD11	8:O:210:PRO:CB	2.30	0.55
8:O:283:HIS:NE2	8:O:318:HIS:HB2	2.21	0.55
8:O:527:PHE:HE2	11:R:27:TRP:CH2	2.25	0.55
12:V:146:PRO:HA	12:V:147:ILE:CG1	2.35	0.55
13:G:64:LEU:CD1	13:G:67:LEU:HD23	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:G:112:PRO:HA	13:G:151:LEU:CD2	2.36	0.55
13:G:124:ASN:ND2	13:G:126:ARG:HG3	2.22	0.55
1:A:355:PHE:HA	1:A:358:LEU:HB2	1.88	0.54
2:B:52:SER:O	2:B:56:LYS:HD3	2.06	0.54
3:C:54:HIS:O	3:C:57:GLY:N	2.38	0.54
4:D:12:LEU:HD22	4:D:25:LYS:HD3	1.89	0.54
4:D:149:LEU:HD12	4:D:183:LEU:CD1	2.38	0.54
4:D:235:LEU:HD23	4:D:300:LEU:HD22	1.88	0.54
4:D:260:ALA:HB2	4:D:284:MET:CE	2.38	0.54
4:D:362:GLU:HG2	4:D:364:ARG:H	1.72	0.54
4:D:395:TRP:CE2	6:F:250:VAL:HG23	2.42	0.54
5:E:37:GLN:HG2	5:E:40:LEU:HD12	1.90	0.54
5:E:332:ASN:HD22	13:G:180:GLY:H	1.51	0.54
6:F:58:MET:HG3	6:F:68:VAL:HG12	1.89	0.54
6:F:137:HIS:O	6:F:141:GLN:HG3	2.07	0.54
7:H:61:PRO:O	7:H:65:LYS:HG3	2.07	0.54
8:O:28:GLU:HA	8:O:28:GLU:OE2	2.06	0.54
8:O:148:ARG:NH1	8:O:193:GLN:OE1	2.40	0.54
8:O:216:GLY:HA2	8:O:266:CYS:HB3	1.89	0.54
8:O:535:LYS:HA	8:O:538:GLN:HE21	1.72	0.54
8:O:621:LYS:HB3	8:O:643:ASN:HB3	1.88	0.54
8:O:732:GLU:CG	8:O:733:ARG:H	2.20	0.54
8:O:733:ARG:HH22	11:R:96:LEU:HD22	1.70	0.54
11:R:100:GLU:CG	11:R:102:GLU:HB3	2.34	0.54
12:V:129:LEU:HD22	12:V:133:THR:HA	1.89	0.54
12:V:166:VAL:HG21	12:V:188:LEU:HD13	1.87	0.54
13:G:31:ILE:HG23	13:G:32:SER:N	2.22	0.54
13:G:69:LEU:HA	13:G:73:GLY:CA	2.37	0.54
1:A:84:LEU:HA	1:A:87:TYR:HB2	1.89	0.54
1:A:104:ALA:CB	1:A:114:ALA:HB3	2.32	0.54
1:A:442:GLN:HA	1:A:445:LEU:HD12	1.89	0.54
2:B:323:ILE:HG12	2:B:354:ILE:CD1	2.37	0.54
3:C:85:ILE:HG13	3:C:124:LEU:HG	1.88	0.54
3:C:361:HIS:HB3	3:C:363:ASN:OD1	2.07	0.54
3:C:375:ASN:O	3:C:379:GLU:HG2	2.07	0.54
4:D:22:LEU:O	4:D:25:LYS:HB2	2.07	0.54
4:D:181:GLU:O	4:D:185:ILE:HG13	2.07	0.54
5:E:64:LYS:HG2	5:E:68:HIS:HB2	1.89	0.54
5:E:238:LEU:HD22	6:F:200:VAL:HG22	1.89	0.54
5:E:255:LEU:HB2	5:E:321:GLN:HG3	1.89	0.54
5:E:323:ILE:HG22	13:G:185:LEU:CD2	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:H:62:PRO:HA	7:H:65:LYS:CD	2.35	0.54
7:H:77:VAL:HG22	7:H:92:THR:OG1	2.07	0.54
7:H:93:ILE:HG23	7:H:106:MET:CE	2.36	0.54
7:H:133:PHE:HA	7:H:136:PHE:CD2	2.42	0.54
8:O:562:GLY:CA	8:O:577:VAL:HG22	2.36	0.54
8:O:563:GLU:CG	11:R:27:TRP:HA	2.37	0.54
8:O:620:VAL:HG13	8:O:644:PHE:HA	1.89	0.54
8:O:681:GLN:HE22	11:R:46:ARG:HH21	1.55	0.54
8:O:696:HIS:HB3	8:O:739:ASP:CB	2.36	0.54
10:Q:91:LEU:HD22	12:V:180:ILE:CB	2.37	0.54
13:G:19:ALA:HB3	13:G:49:LEU:HD22	1.88	0.54
13:G:75:TYR:HE1	13:G:93:GLN:HG3	1.71	0.54
1:A:168:GLU:OE2	1:A:171:ARG:NH2	2.41	0.54
1:A:339:ARG:CD	2:B:394:LEU:HD11	2.37	0.54
1:A:394:LEU:HD11	1:A:401:LEU:HD12	1.89	0.54
1:A:411:ILE:CG1	1:A:448:LEU:HD22	2.35	0.54
2:B:146:ARG:HE	2:B:229:PRO:HD3	1.73	0.54
2:B:399:HIS:O	2:B:411:LEU:HD13	2.08	0.54
3:C:28:ILE:HG22	3:C:61:VAL:HG22	1.90	0.54
3:C:253:ILE:HA	3:C:256:LEU:HD12	1.89	0.54
3:C:274:GLU:HA	3:C:277:ASN:ND2	2.21	0.54
3:C:317:LEU:HD21	3:C:325:ARG:NH1	2.22	0.54
3:C:397:ILE:HG21	6:F:308:LYS:C	2.28	0.54
4:D:127:LEU:HB3	4:D:151:ILE:CD1	2.37	0.54
5:E:237:LEU:HD23	6:F:163:LEU:HD11	1.89	0.54
6:F:55:TRP:CZ2	6:F:59:ARG:HD2	2.42	0.54
7:H:20:CYS:HA	7:H:23:GLN:CD	2.28	0.54
7:H:122:SER:HB3	7:H:153:TRP:CH2	2.42	0.54
8:O:107:TYR:CD1	10:Q:32:MET:HG3	2.42	0.54
8:O:159:LEU:O	8:O:163:LEU:HG	2.06	0.54
8:O:220:LYS:HD2	8:O:223:ALA:HB3	1.89	0.54
8:O:393:LYS:HA	8:O:396:ASP:OD2	2.06	0.54
8:O:622:MET:HG2	8:O:650:LYS:HD2	1.90	0.54
12:V:146:PRO:C	12:V:147:ILE:CA	2.62	0.54
13:G:121:GLU:HG3	13:G:123:ARG:HH22	1.73	0.54
13:G:167:ILE:HD12	13:G:167:ILE:N	2.15	0.54
1:A:110:LEU:O	1:A:114:ALA:N	2.22	0.54
1:A:280:ALA:HB3	1:A:283:THR:OG1	2.07	0.54
1:A:300:LYS:HG3	1:A:337:PHE:CE1	2.42	0.54
1:A:325:VAL:HA	1:A:328:TYR:CD2	2.42	0.54
2:B:130:GLU:HA	2:B:133:GLU:CG	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:277:LEU:HD12	2:B:278:LYS:HG2	1.88	0.54
2:B:426:LYS:HA	2:B:429:ASN:HB2	1.88	0.54
3:C:82:GLN:HB2	3:C:123:ILE:HG23	1.89	0.54
3:C:299:LEU:HD12	3:C:302:LEU:HD23	1.88	0.54
3:C:365:GLU:OE1	3:C:368:ASN:N	2.40	0.54
4:D:169:ASN:HA	4:D:172:SER:OG	2.07	0.54
4:D:170:ARG:HB3	11:R:76:ASN:HD22	1.72	0.54
4:D:245:MET:HE3	4:D:249:LEU:HD21	1.89	0.54
5:E:250:LEU:HB2	6:F:228:ILE:CG1	2.17	0.54
6:F:125:TYR:HA	6:F:152:LEU:O	2.08	0.54
7:H:98:TRP:HB3	7:H:102:VAL:CB	2.35	0.54
8:O:312:ILE:CD1	8:O:363:HIS:HB3	2.36	0.54
8:O:322:GLU:HB3	8:O:350:PHE:CZ	2.43	0.54
8:O:322:GLU:HA	8:O:325:ARG:HE	1.72	0.54
8:O:510:TYR:O	11:R:32:LEU:HA	2.06	0.54
8:O:626:ASP:CB	8:O:636:SER:HA	2.38	0.54
8:O:695:ARG:HD3	8:O:740:GLU:CA	2.38	0.54
8:O:699:LEU:HD13	8:O:699:LEU:C	2.27	0.54
9:P:12:THR:HA	10:Q:15:GLU:OE1	2.07	0.54
12:V:134:GLU:HG3	12:V:200:ARG:CD	2.37	0.54
1:A:101:GLN:NE2	1:A:130:MET:HB3	2.19	0.54
1:A:104:ALA:HB2	1:A:114:ALA:CB	2.33	0.54
1:A:194:LYS:HD2	1:A:229:THR:CG2	2.38	0.54
1:A:254:VAL:O	1:A:257:TYR:HB2	2.08	0.54
1:A:417:TYR:CD1	2:B:402:ILE:CG2	2.90	0.54
2:B:5:GLU:O	2:B:9:MET:N	2.35	0.54
2:B:195:LEU:HD23	2:B:228:ILE:CD1	2.37	0.54
2:B:292:ASN:HB3	2:B:295:ASP:HB2	1.89	0.54
2:B:392:CYS:O	2:B:395:ASP:HB2	2.08	0.54
2:B:393:ILE:HA	2:B:398:ILE:HD13	1.88	0.54
3:C:82:GLN:OE1	3:C:123:ILE:HD12	2.07	0.54
3:C:342:ILE:HG21	7:H:124:ALA:CA	2.36	0.54
3:C:350:SER:OG	7:H:124:ALA:O	2.25	0.54
4:D:55:GLU:OE1	4:D:55:GLU:N	2.39	0.54
4:D:87:PHE:O	4:D:90:GLU:HB2	2.07	0.54
5:E:77:VAL:CB	5:E:98:LEU:HB2	2.36	0.54
6:F:240:GLU:HA	6:F:243:LYS:CE	2.37	0.54
8:O:58:TYR:HB3	8:O:135:PRO:O	2.07	0.54
8:O:523:PRO:HG2	8:O:580:TYR:CE2	2.42	0.54
9:P:30:ILE:CD1	10:Q:5:PHE:HE2	2.03	0.54
10:Q:63:TYR:CE2	12:V:155:VAL:HG22	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:V:118:LEU:HD23	12:V:118:LEU:H	1.72	0.54
12:V:140:LEU:HD22	12:V:144:GLY:O	2.06	0.54
12:V:180:ILE:HD12	12:V:184:LEU:O	2.08	0.54
1:A:128:VAL:CA	1:A:131:TYR:HB3	2.34	0.54
1:A:195:GLU:CG	1:A:199:ARG:HH21	2.21	0.54
1:A:218:LEU:HD23	1:A:219:LYS:NZ	2.23	0.54
1:A:366:ILE:O	1:A:369:PHE:HB3	2.08	0.54
1:A:491:LEU:HD21	3:C:167:MET:HG2	1.89	0.54
2:B:128:LEU:HA	2:B:131:PHE:CD2	2.42	0.54
3:C:85:ILE:HG23	3:C:127:ALA:H	1.73	0.54
3:C:192:TYR:HD1	3:C:197:ASN:HB3	1.72	0.54
3:C:259:ALA:HA	3:C:282:HIS:NE2	2.23	0.54
3:C:348:PHE:HZ	3:C:364:PRO:HB3	1.73	0.54
3:C:353:GLN:OE1	7:H:128:ILE:HA	2.07	0.54
4:D:365:GLU:OE2	13:G:153:GLU:CD	2.46	0.54
5:E:68:HIS:HA	5:E:71:SER:HG	1.70	0.54
5:E:78:MET:CE	5:E:112:ALA:HB3	2.38	0.54
5:E:79:GLY:HA3	5:E:113:ALA:HB3	1.87	0.54
5:E:139:SER:O	5:E:141:PRO:HD3	2.08	0.54
5:E:253:SER:CB	6:F:223:ALA:HB3	2.37	0.54
6:F:83:VAL:CG1	6:F:152:LEU:HD12	2.37	0.54
8:O:218:TYR:OH	8:O:242:ARG:NH2	2.34	0.54
8:O:324:LEU:O	8:O:329:ASN:N	2.32	0.54
8:O:437:ARG:NH2	8:O:519:LEU:HD23	2.23	0.54
9:P:78:ALA:CA	9:P:86:GLU:HB3	2.38	0.54
9:P:100:PRO:HG2	10:Q:84:THR:C	2.28	0.54
13:G:75:TYR:HE1	13:G:93:GLN:CG	2.21	0.54
1:A:94:LEU:H	1:A:247:TYR:HB3	1.73	0.54
1:A:97:ILE:HG23	1:A:118:ALA:CB	2.35	0.54
1:A:101:GLN:HA	1:A:115:LEU:CD2	2.37	0.54
1:A:299:TYR:HA	1:A:302:ALA:CB	2.38	0.54
1:A:353:LYS:HA	1:A:356:LEU:CD1	2.38	0.54
1:A:433:VAL:O	1:A:437:GLU:HB3	2.06	0.54
2:B:431:LEU:HA	2:B:434:LEU:HB3	1.90	0.54
3:C:22:THR:O	3:C:26:GLU:HG2	2.08	0.54
3:C:278:LEU:CD1	3:C:281:LYS:HD3	2.32	0.54
3:C:310:LEU:HD12	3:C:326:VAL:HG23	1.88	0.54
3:C:364:PRO:O	3:C:365:GLU:HG2	2.06	0.54
4:D:70:CYS:HA	4:D:73:LEU:CG	2.37	0.54
4:D:85:TYR:CD1	4:D:106:ILE:HG23	2.39	0.54
4:D:256:GLN:HG2	4:D:261:TYR:CZ	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:389:SER:CB	4:D:394:GLU:CD	2.74	0.54
6:F:81:ILE:CG1	6:F:186:LEU:HD23	2.38	0.54
6:F:100:ILE:HG12	6:F:138:VAL:HG13	1.90	0.54
7:H:70:GLU:O	7:H:74:ILE:HG13	2.08	0.54
7:H:148:ILE:CD1	7:H:155:ALA:HB2	2.38	0.54
8:O:281:GLU:OE1	8:O:284:ASN:ND2	2.40	0.54
8:O:387:ALA:O	8:O:390:LEU:HB2	2.08	0.54
8:O:438:MET:HA	8:O:441:LYS:CE	2.36	0.54
8:O:540:PHE:CD2	8:O:553:LEU:HB2	2.42	0.54
8:O:612:LYS:HE2	8:O:657:MET:SD	2.48	0.54
8:O:681:GLN:CD	8:O:728:LYS:HZ2	2.10	0.54
8:O:693:VAL:HG22	8:O:694:LEU:HA	1.88	0.54
9:P:16:THR:N	10:Q:17:GLU:O	2.17	0.54
9:P:30:ILE:CG1	10:Q:5:PHE:HE2	2.21	0.54
11:R:43:ALA:HB1	11:R:96:LEU:CD1	2.37	0.54
11:R:84:ILE:HA	11:R:95:PRO:CD	2.38	0.54
1:A:251:TRP:HZ3	1:A:288:ALA:HA	1.72	0.54
1:A:258:VAL:CG1	1:A:285:LEU:HB3	2.36	0.54
3:C:69:PRO:HB2	3:C:110:ALA:CB	2.38	0.54
3:C:78:PHE:CZ	3:C:119:ARG:HG2	2.43	0.54
3:C:82:GLN:CD	3:C:123:ILE:HG23	2.28	0.54
3:C:94:ARG:CZ	3:C:131:MET:HA	2.38	0.54
3:C:332:GLN:O	3:C:335:GLU:HB2	2.08	0.54
3:C:395:GLN:O	3:C:399:VAL:N	2.38	0.54
4:D:351:PHE:O	4:D:352:ILE:HG13	2.07	0.54
4:D:388:ILE:CG2	4:D:393:PRO:HB2	2.20	0.54
5:E:64:LYS:CG	5:E:68:HIS:HB2	2.38	0.54
5:E:102:GLY:C	5:E:106:ARG:HG3	2.28	0.54
5:E:127:VAL:HG12	6:F:90:LEU:HD13	1.90	0.54
5:E:332:ASN:HD21	13:G:179:ASP:CB	2.13	0.54
7:H:98:TRP:HB3	7:H:102:VAL:CG2	2.38	0.54
8:O:26:MET:HA	8:O:94:TYR:HA	1.90	0.54
8:O:222:GLU:HG2	8:O:242:ARG:NE	2.23	0.54
8:O:249:ARG:HG2	8:O:253:TYR:HE1	1.73	0.54
8:O:395:CYS:CA	8:O:398:LEU:HD12	2.38	0.54
8:O:513:GLN:HE21	8:O:554:THR:HG21	1.72	0.54
8:O:561:THR:HB	8:O:576:MET:SD	2.48	0.54
8:O:568:TYR:HE1	11:R:22:PHE:HB2	1.73	0.54
8:O:656:SER:O	8:O:657:MET:O	2.25	0.54
8:O:657:MET:CE	8:O:657:MET:CA	2.86	0.54
9:P:97:PRO:CD	10:Q:52:HIS:NE2	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:V:87:VAL:O	12:V:118:LEU:HD23	2.07	0.54
12:V:126:ASP:OD1	12:V:167:ARG:NH1	2.40	0.54
13:G:122:MET:HE1	13:G:131:LEU:HD12	1.87	0.54
13:G:198:TYR:HA	13:G:201:ASN:ND2	2.23	0.54
1:A:116:LYS:O	1:A:119:LEU:HB3	2.07	0.54
1:A:291:LEU:HD21	1:A:393:TYR:CE2	2.42	0.54
1:A:403:THR:HG22	1:A:407:ASN:ND2	2.22	0.54
1:A:421:ASP:OD1	1:A:459:ILE:HG12	2.08	0.54
1:A:429:PHE:CB	1:A:431:THR:HG22	2.37	0.54
1:A:502:VAL:HB	3:C:213:ALA:HB1	1.89	0.54
2:B:323:ILE:HA	2:B:326:PHE:CZ	2.43	0.54
2:B:371:ILE:HD11	2:B:409:LEU:CB	2.37	0.54
3:C:63:PHE:HZ	3:C:107:LEU:HG	1.72	0.54
3:C:232:LEU:HD12	3:C:263:LEU:CD2	2.38	0.54
4:D:52:MET:HB3	4:D:66:LEU:HD11	1.88	0.54
4:D:82:LYS:HB2	4:D:113:ILE:HG21	1.90	0.54
5:E:189:TYR:OH	5:E:198:GLU:O	2.26	0.54
5:E:240:LEU:CB	6:F:163:LEU:HD13	2.35	0.54
6:F:131:PRO:CA	6:F:153:LYS:HE3	2.38	0.54
7:H:70:GLU:HB3	7:H:102:VAL:CG2	2.38	0.54
7:H:74:ILE:HD11	7:H:102:VAL:HG22	1.88	0.54
7:H:134:ALA:HA	7:H:139:LEU:O	2.07	0.54
8:O:12:GLU:HA	8:O:15:ASN:HD22	1.73	0.54
8:O:32:ARG:NE	8:O:35:TRP:HE3	1.68	0.54
8:O:163:LEU:CD1	8:O:185:ILE:HD11	2.36	0.54
8:O:207:PHE:CD2	8:O:211:PHE:HB2	2.42	0.54
8:O:223:ALA:HB2	8:O:270:MET:HB3	1.89	0.54
8:O:488:ASN:O	8:O:492:ASN:OD1	2.20	0.54
8:O:511:VAL:HG12	8:O:511:VAL:O	2.08	0.54
8:O:563:GLU:HA	8:O:565:LYS:NZ	2.15	0.54
8:O:607:GLU:HB3	8:O:630:GLU:HB3	1.89	0.54
12:V:118:LEU:HD13	12:V:197:ASP:HB2	1.88	0.54
12:V:172:PRO:HA	12:V:175:TYR:CD2	2.43	0.54
12:V:180:ILE:HB	12:V:184:LEU:HB2	1.89	0.54
1:A:453:VAL:O	3:C:315:LEU:N	2.40	0.54
2:B:73:LYS:HA	2:B:76:ILE:HG13	1.88	0.54
2:B:359:LEU:CD1	2:B:362:LEU:HD23	2.38	0.54
3:C:311:THR:HA	3:C:360:PHE:CZ	2.43	0.54
4:D:58:SER:HB3	4:D:61:ILE:CB	2.38	0.54
4:D:140:ASN:HB3	4:D:143:TYR:CB	2.38	0.54
4:D:170:ARG:N	11:R:76:ASN:HB3	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:198:ARG:O	4:D:200:LYS:HE3	2.08	0.54
4:D:208:TYR:CD1	4:D:225:ALA:HA	2.42	0.54
4:D:305:ILE:HA	4:D:309:LEU:CD1	2.31	0.54
4:D:337:LYS:O	4:D:341:GLN:HG3	2.07	0.54
6:F:43:LEU:HD13	6:F:84:MET:HB3	1.90	0.54
6:F:106:TYR:HA	6:F:109:GLU:CD	2.28	0.54
6:F:245:SER:O	6:F:252:PHE:HA	2.08	0.54
8:O:148:ARG:HD3	8:O:202:PHE:HZ	1.73	0.54
8:O:306:THR:C	8:O:309:PRO:HD2	2.28	0.54
8:O:614:ILE:CG2	8:O:628:GLU:HA	2.38	0.54
8:O:644:PHE:CZ	8:O:650:LYS:HA	2.42	0.54
8:O:660:ASP:HA	8:O:663:GLN:CB	2.38	0.54
12:V:119:PHE:HE2	12:V:149:ALA:HB1	1.72	0.54
13:G:41:TYR:HB2	13:G:161:ASP:OD2	2.07	0.54
13:G:49:LEU:H	13:G:49:LEU:HD12	1.72	0.54
1:A:374:TYR:CE1	1:A:409:ALA:HB1	2.44	0.53
2:B:292:ASN:CA	2:B:295:ASP:HB2	2.38	0.53
2:B:310:ALA:O	2:B:314:LEU:HG	2.08	0.53
2:B:311:MET:SD	2:B:333:ASN:ND2	2.81	0.53
2:B:367:THR:C	2:B:411:LEU:HB2	2.29	0.53
3:C:257:SER:OG	3:C:261:HIS:NE2	2.42	0.53
5:E:55:CYS:CB	5:E:226:VAL:HG22	2.33	0.53
5:E:234:ASP:CB	6:F:49:LEU:HD22	2.38	0.53
6:F:30:VAL:O	6:F:136:ILE:HD13	2.07	0.53
6:F:48:ILE:HD11	6:F:190:LEU:HD22	1.90	0.53
6:F:69:ILE:HG12	6:F:124:TRP:CE3	2.43	0.53
6:F:72:LEU:HD23	6:F:86:SER:HB3	1.90	0.53
8:O:58:TYR:HB2	8:O:112:PHE:CZ	2.43	0.53
8:O:212:LEU:HA	8:O:262:VAL:HG21	1.90	0.53
8:O:274:HIS:HB3	8:O:277:PHE:HD2	1.72	0.53
9:P:13:THR:CG2	10:Q:16:TYR:CD1	2.50	0.53
9:P:24:VAL:CG2	9:P:51:LEU:HB3	2.38	0.53
12:V:78:ASN:HA	12:V:151:ILE:HG12	1.89	0.53
13:G:168:ASN:O	13:G:171:VAL:HG12	2.07	0.53
1:A:128:VAL:HA	1:A:131:TYR:CB	2.35	0.53
1:A:178:LEU:HD21	1:A:211:CYS:SG	2.48	0.53
1:A:244:VAL:HG12	1:A:248:LEU:CD1	2.38	0.53
1:A:252:SER:O	1:A:255:LEU:HB2	2.09	0.53
2:B:47:PRO:HB2	2:B:51:LEU:CG	2.39	0.53
2:B:391:GLN:O	2:B:394:LEU:HB3	2.08	0.53
3:C:80:GLN:HA	3:C:83:LEU:HG	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:189:GLY:HA3	3:C:205:TYR:CE2	2.42	0.53
3:C:370:PRO:O	3:C:373:LEU:HB3	2.08	0.53
3:C:387:ASP:HB3	7:H:206:PHE:HE1	1.73	0.53
4:D:73:LEU:HA	4:D:76:LEU:CD1	2.37	0.53
4:D:169:ASN:HB2	11:R:75:CYS:CB	2.38	0.53
5:E:28:ILE:HD13	5:E:229:PHE:HB3	1.90	0.53
5:E:31:TYR:CZ	5:E:131:GLU:HA	2.43	0.53
5:E:74:ASN:CA	5:E:141:PRO:HB2	2.38	0.53
5:E:78:MET:HG3	5:E:98:LEU:CD1	2.38	0.53
6:F:69:ILE:O	6:F:89:LEU:HB2	2.08	0.53
6:F:72:LEU:HD21	6:F:152:LEU:HB3	1.89	0.53
8:O:13:THR:HA	8:O:16:LYS:NZ	2.23	0.53
8:O:87:TYR:CE1	8:O:150:LEU:HD22	2.43	0.53
8:O:108:LEU:HG	8:O:112:PHE:CD1	2.42	0.53
8:O:236:MET:HB3	8:O:296:ASN:HB3	1.89	0.53
8:O:535:LYS:HA	8:O:538:GLN:NE2	2.22	0.53
8:O:567:ASN:OD1	11:R:23:GLU:CD	2.46	0.53
8:O:712:ASN:H	8:O:712:ASN:ND2	2.06	0.53
8:O:728:LYS:HA	11:R:54:ILE:O	2.08	0.53
9:P:26:GLU:OE2	9:P:30:ILE:HD11	2.09	0.53
12:V:100:THR:O	12:V:102:PRO:HD3	2.08	0.53
13:G:9:SER:HA	13:G:12:LEU:HD11	1.90	0.53
13:G:140:ILE:HA	13:G:158:ILE:CB	2.39	0.53
13:G:162:ILE:O	13:G:163:ARG:HB2	2.08	0.53
1:A:78:GLU:CB	1:A:108:PRO:HD2	2.34	0.53
1:A:84:LEU:HD23	1:A:87:TYR:CD2	2.38	0.53
1:A:360:PRO:HA	1:A:363:ARG:CZ	2.38	0.53
1:A:394:LEU:CD2	1:A:398:VAL:HG23	2.38	0.53
2:B:79:ASN:HD21	2:B:87:GLU:HG3	1.73	0.53
2:B:128:LEU:HD23	2:B:158:LEU:HD21	1.89	0.53
2:B:156:GLY:HA3	2:B:200:LEU:CD1	2.39	0.53
2:B:157:LYS:HA	2:B:160:LEU:CG	2.36	0.53
2:B:175:LEU:O	2:B:178:SER:OG	2.20	0.53
2:B:431:LEU:CD2	6:F:296:THR:HA	2.39	0.53
2:B:435:ASN:OD1	2:B:436:GLN:HG3	2.08	0.53
3:C:250:GLY:HA2	3:C:254:LYS:CB	2.37	0.53
3:C:398:THR:OG1	6:F:308:LYS:NZ	2.27	0.53
4:D:80:THR:O	4:D:84:ILE:HG13	2.09	0.53
4:D:240:GLN:H	4:D:347:ARG:HD2	1.73	0.53
4:D:353:ASP:H	4:D:360:HIS:CD2	2.27	0.53
5:E:124:ALA:HB1	5:E:129:ARG:HB2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:148:SER:N	5:E:151:ASP:HB2	2.23	0.53
5:E:250:LEU:CG	6:F:228:ILE:HD13	2.22	0.53
5:E:279:GLN:NE2	5:E:295:LYS:CD	2.69	0.53
5:E:322:VAL:HA	6:F:279:PHE:HZ	1.73	0.53
6:F:69:ILE:HA	6:F:124:TRP:HE3	1.72	0.53
6:F:72:LEU:CA	6:F:86:SER:HB3	2.31	0.53
7:H:129:ILE:HA	7:H:160:ARG:O	2.08	0.53
8:O:17:LEU:HD22	8:O:57:LEU:HD11	1.90	0.53
8:O:32:ARG:HH11	10:Q:37:PHE:C	2.12	0.53
8:O:106:ARG:NH2	10:Q:31:ALA:CB	2.65	0.53
8:O:319:ILE:HD13	8:O:368:LEU:CA	2.35	0.53
8:O:505:ILE:CB	8:O:533:LEU:CD2	2.86	0.53
8:O:568:TYR:OH	11:R:22:PHE:CG	2.45	0.53
8:O:569:LEU:HD13	8:O:571:LYS:HE2	1.89	0.53
8:O:571:LYS:HG3	8:O:642:MET:HE3	1.90	0.53
8:O:692:LYS:CG	8:O:743:TYR:CB	2.87	0.53
9:P:51:LEU:CD2	9:P:60:CYS:HA	2.38	0.53
9:P:72:PRO:HD3	10:Q:59:GLU:CB	2.36	0.53
12:V:86:PRO:HA	12:V:119:PHE:HD1	1.73	0.53
12:V:118:LEU:CD1	12:V:197:ASP:HB2	2.38	0.53
1:A:218:LEU:HD23	1:A:219:LYS:HZ2	1.73	0.53
1:A:306:LEU:CD2	1:A:325:VAL:HG13	2.39	0.53
1:A:352:PHE:O	1:A:356:LEU:HG	2.08	0.53
2:B:209:LYS:HE2	2:B:209:LYS:HA	1.90	0.53
2:B:306:PRO:HA	2:B:309:LEU:CG	2.38	0.53
2:B:371:ILE:HB	2:B:372:PRO:HD3	1.90	0.53
3:C:70:SER:HB2	3:C:110:ALA:HB1	1.90	0.53
3:C:252:PHE:O	3:C:255:PRO:HG2	2.09	0.53
4:D:148:TYR:HB3	4:D:171:ALA:CB	2.36	0.53
4:D:293:THR:HG21	4:D:302:ARG:NE	2.24	0.53
4:D:385:LEU:HD22	6:F:234:ARG:CA	2.39	0.53
5:E:113:ALA:HB1	5:E:137:TYR:OH	2.09	0.53
5:E:298:ASP:OD1	5:E:299:LYS:CB	2.55	0.53
6:F:31:MET:HE1	6:F:136:ILE:HG12	1.89	0.53
6:F:43:LEU:CD1	6:F:85:ASN:HB2	2.38	0.53
6:F:202:HIS:CE1	6:F:206:MET:HA	2.43	0.53
8:O:42:ILE:HD12	8:O:108:LEU:HB2	1.90	0.53
8:O:70:ARG:NH1	8:O:150:LEU:HD12	2.23	0.53
8:O:82:GLN:O	8:O:86:MET:HG2	2.08	0.53
8:O:98:ALA:HA	8:O:101:MET:SD	2.48	0.53
8:O:103:CYS:CB	10:Q:35:GLY:C	2.45	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:130:VAL:HG11	8:O:142:LEU:HD13	1.90	0.53
8:O:254:LEU:HB2	8:O:259:TYR:CE1	2.43	0.53
8:O:279:HIS:O	8:O:314:GLU:HG3	2.08	0.53
8:O:312:ILE:CG2	8:O:367:ALA:HB2	2.39	0.53
8:O:557:HIS:HB3	8:O:579:THR:CG2	2.37	0.53
9:P:1:MET:HG3	9:P:64:SER:CB	2.39	0.53
11:R:64:THR:HB	11:R:68:CYS:SG	2.48	0.53
12:V:84:VAL:HG21	12:V:101:LEU:HD12	1.90	0.53
12:V:164:GLN:HA	12:V:167:ARG:HD2	1.90	0.53
13:G:36:GLU:HA	13:G:95:LYS:HZ1	1.73	0.53
1:A:503:LYS:O	3:C:215:ALA:HB2	2.09	0.53
2:B:7:ASP:OD1	2:B:38:ASN:ND2	2.42	0.53
2:B:37:TYR:HB2	2:B:57:VAL:CG2	2.39	0.53
2:B:37:TYR:CD1	2:B:53:SER:HA	2.43	0.53
2:B:149:PHE:CZ	2:B:193:GLN:HA	2.43	0.53
3:C:144:ASP:O	3:C:148:LEU:HG	2.07	0.53
3:C:214:MET:CA	3:C:248:ILE:HG21	2.34	0.53
4:D:46:LYS:HA	4:D:87:PHE:CE2	2.44	0.53
4:D:145:LEU:O	4:D:148:TYR:HB2	2.09	0.53
4:D:358:ILE:HB	4:D:360:HIS:CE1	2.43	0.53
4:D:366:ALA:CB	4:D:368:PRO:HD2	2.36	0.53
5:E:77:VAL:HG12	5:E:100:VAL:CG2	2.34	0.53
5:E:86:ASP:CB	5:E:91:ILE:HD11	2.38	0.53
6:F:297:LYS:HD3	7:H:206:PHE:CE2	2.43	0.53
7:H:49:ASP:OD2	7:H:52:ASN:HB2	2.08	0.53
8:O:45:LEU:HD13	8:O:57:LEU:HD21	1.89	0.53
8:O:176:PRO:HD2	8:O:181:ILE:HG23	1.90	0.53
8:O:397:ASN:N	8:O:400:LYS:HE3	2.24	0.53
8:O:443:LEU:HD22	8:O:476:MET:CE	2.39	0.53
8:O:497:GLN:O	8:O:497:GLN:HG3	2.09	0.53
8:O:505:ILE:CG1	8:O:533:LEU:CD2	2.87	0.53
8:O:562:GLY:HA3	8:O:577:VAL:N	2.22	0.53
8:O:563:GLU:OE1	11:R:25:LYS:HG3	2.09	0.53
8:O:568:TYR:OH	11:R:22:PHE:CE2	2.47	0.53
8:O:617:LEU:HB3	8:O:623:ILE:CB	2.34	0.53
8:O:723:GLU:O	11:R:46:ARG:N	2.42	0.53
9:P:30:ILE:O	9:P:34:ILE:N	2.41	0.53
9:P:93:PHE:O	10:Q:51:SER:CB	2.54	0.53
9:P:100:PRO:HG2	10:Q:84:THR:O	2.08	0.53
12:V:80:SER:HB3	12:V:81:PRO:HD2	1.90	0.53
13:G:50:ALA:HA	13:G:53:GLN:HG2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:G:114:SER:HA	13:G:117:LEU:HB2	1.90	0.53
13:G:132:ILE:HD13	13:G:145:LEU:CD1	2.38	0.53
1:A:94:LEU:O	1:A:98:GLU:HG3	2.08	0.53
1:A:108:PRO:HD3	1:A:111:ARG:NH2	2.24	0.53
1:A:291:LEU:CD1	1:A:294:LEU:HD13	2.39	0.53
1:A:502:VAL:O	3:C:215:ALA:N	2.41	0.53
2:B:175:LEU:HD13	2:B:193:GLN:HB3	1.91	0.53
2:B:253:LYS:HE2	2:B:253:LYS:HA	1.91	0.53
2:B:292:ASN:CB	2:B:295:ASP:HB2	2.37	0.53
3:C:127:ALA:HA	3:C:130:LYS:CG	2.39	0.53
3:C:229:LEU:HD22	3:C:233:ILE:HD12	1.90	0.53
3:C:262:GLU:OE1	3:C:281:LYS:NZ	2.21	0.53
4:D:309:LEU:HD22	4:D:313:SER:OG	2.08	0.53
5:E:324:LYS:HB3	5:E:328:PHE:HD2	1.73	0.53
6:F:45:PRO:HD3	6:F:196:GLU:CG	2.33	0.53
6:F:69:ILE:HG12	6:F:124:TRP:CZ3	2.44	0.53
6:F:254:HIS:CE1	13:G:162:ILE:CD1	2.84	0.53
7:H:73:GLY:O	7:H:76:SER:OG	2.22	0.53
7:H:139:LEU:HB3	7:H:143:GLU:CG	2.38	0.53
8:O:105:TYR:CD1	8:O:108:LEU:HD23	2.44	0.53
8:O:166:GLU:OE1	8:O:176:PRO:HD3	2.09	0.53
8:O:175:ASP:OD2	8:O:249:ARG:HD3	2.09	0.53
1:A:142:THR:HG21	1:A:160:PRO:CG	2.38	0.53
2:B:76:ILE:HG23	2:B:88:MET:HG2	1.89	0.53
2:B:150:LYS:HD3	2:B:154:LYS:NZ	2.23	0.53
2:B:153:THR:HG23	2:B:196:GLU:CD	2.29	0.53
2:B:194:LEU:HD23	2:B:224:ILE:CG1	2.39	0.53
2:B:212:LYS:HE2	2:B:215:LYS:NZ	2.22	0.53
2:B:295:ASP:O	11:R:71:ALA:CA	2.54	0.53
2:B:373:PHE:HD2	4:D:354:GLN:NE2	2.06	0.53
2:B:436:GLN:HA	2:B:439:VAL:CG2	2.39	0.53
3:C:60:ALA:HB2	3:C:103:LEU:HD22	1.89	0.53
3:C:70:SER:OG	3:C:111:LEU:HD23	2.09	0.53
3:C:198:PHE:CD2	3:C:234:LEU:HD13	2.42	0.53
3:C:342:ILE:HD12	3:C:351:ILE:HG13	1.91	0.53
4:D:60:VAL:HG22	4:D:63:ARG:CZ	2.39	0.53
4:D:367:LEU:HA	4:D:370:TRP:CB	2.38	0.53
5:E:209:ASN:CG	5:E:210:LYS:HG2	2.29	0.53
5:E:250:LEU:H	6:F:225:HIS:HB2	1.67	0.53
8:O:68:HIS:O	8:O:72:LEU:HG	2.09	0.53
8:O:158:ILE:O	8:O:162:MET:HG2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:399:LEU:HD13	8:O:454:GLU:HG2	1.90	0.53
8:O:568:TYR:CD2	11:R:20:LYS:C	2.78	0.53
8:O:611:THR:OG1	8:O:615:LYS:HE2	2.09	0.53
9:P:11:LYS:HB3	10:Q:14:LYS:HA	1.89	0.53
9:P:26:GLU:O	9:P:28:LYS:CA	2.53	0.53
9:P:51:LEU:HA	9:P:55:LYS:HD3	1.90	0.53
13:G:11:LEU:HB3	13:G:15:PHE:HE2	1.73	0.53
1:A:93:GLY:HA3	1:A:247:TYR:CD1	2.44	0.53
1:A:414:PHE:CE2	1:A:462:ALA:HB2	2.43	0.53
1:A:437:GLU:HA	1:A:440:LEU:CD1	2.35	0.53
1:A:491:LEU:HD12	3:C:203:TYR:OH	2.08	0.53
2:B:21:SER:O	8:O:652:LYS:CG	2.56	0.53
2:B:90:ASN:O	2:B:94:GLN:HG3	2.08	0.53
3:C:125:LYS:HD2	3:C:161:TYR:OH	2.08	0.53
3:C:205:TYR:CB	3:C:227:TYR:HB2	2.35	0.53
4:D:48:PHE:HE2	4:D:66:LEU:HD23	1.73	0.53
4:D:141:VAL:O	4:D:174:LEU:HD13	2.08	0.53
4:D:181:GLU:O	4:D:184:GLN:HB2	2.08	0.53
4:D:328:LEU:O	4:D:330:ILE:HG23	2.09	0.53
5:E:36:GLN:CD	5:E:84:LYS:HD2	2.29	0.53
5:E:173:THR:HA	5:E:176:ILE:CD1	2.35	0.53
6:F:32:ALA:HB1	6:F:181:MET:O	2.09	0.53
7:H:33:THR:O	7:H:36:VAL:HB	2.09	0.53
7:H:45:LEU:HD22	7:H:81:ILE:CD1	2.39	0.53
7:H:52:ASN:HA	7:H:55:TYR:CD2	2.30	0.53
8:O:198:PHE:CD2	8:O:201:LYS:HB2	2.41	0.53
8:O:569:LEU:CA	11:R:18:LYS:HD3	2.38	0.53
8:O:692:LYS:HB3	8:O:743:TYR:HB2	1.90	0.53
8:O:728:LYS:CB	8:O:730:TYR:CD2	2.92	0.53
9:P:18:ALA:C	9:P:19:LYS:HD2	2.29	0.53
9:P:49:GLN:HG2	9:P:55:LYS:HZ3	1.73	0.53
12:V:146:PRO:HA	12:V:147:ILE:HG13	1.90	0.53
13:G:17:LEU:HA	13:G:20:LYS:HD2	1.90	0.53
1:A:203:ASP:HA	1:A:206:ASP:OD2	2.08	0.53
2:B:47:PRO:HB2	2:B:51:LEU:CD2	2.39	0.53
2:B:436:GLN:O	2:B:439:VAL:HB	2.08	0.53
3:C:140:SER:HA	3:C:180:HIS:ND1	2.24	0.53
3:C:144:ASP:O	3:C:147:GLN:HB3	2.09	0.53
3:C:192:TYR:CD1	3:C:197:ASN:HB3	2.42	0.53
4:D:165:GLU:CG	11:R:75:CYS:HB3	2.39	0.53
4:D:226:LEU:HD11	4:D:255:CYS:SG	2.49	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:270:ASP:O	4:D:312:ALA:HA	2.09	0.53
4:D:375:GLN:CG	6:F:224:GLN:HG3	2.36	0.53
4:D:406:GLN:HG3	6:F:240:GLU:CG	2.38	0.53
5:E:77:VAL:HB	5:E:98:LEU:H	1.73	0.53
5:E:80:LEU:HG	5:E:117:MET:CE	2.39	0.53
5:E:246:TRP:CZ3	6:F:228:ILE:HG22	2.44	0.53
5:E:248:ASN:HB3	6:F:222:ILE:HG13	1.91	0.53
5:E:281:GLY:HA3	5:E:282:ARG:NH2	2.18	0.53
6:F:68:VAL:O	6:F:126:THR:HA	2.09	0.53
6:F:72:LEU:O	6:F:122:LEU:N	2.41	0.53
7:H:154:GLN:HB3	7:H:163:LEU:CB	2.31	0.53
8:O:42:ILE:HA	8:O:45:LEU:HB2	1.91	0.53
8:O:89:ARG:HA	8:O:92:GLU:HB3	1.89	0.53
8:O:102:ASP:HA	8:O:105:TYR:CB	2.25	0.53
8:O:336:PRO:HG2	8:O:393:LYS:HB2	1.91	0.53
8:O:336:PRO:CB	8:O:394:TYR:HB2	2.39	0.53
8:O:508:GLN:HE22	8:O:559:LEU:CA	2.21	0.53
8:O:521:GLN:NE2	8:O:555:TRP:N	2.44	0.53
8:O:688:MET:SD	8:O:725:LEU:HB2	2.49	0.53
12:V:74:VAL:O	12:V:108:ARG:HG3	2.09	0.53
13:G:132:ILE:HD11	13:G:145:LEU:HD21	1.91	0.53
1:A:176:LEU:O	1:A:180:LYS:HG3	2.09	0.53
1:A:298:LYS:HB3	1:A:301:GLN:HB3	1.90	0.53
1:A:349:SER:O	1:A:353:LYS:HE2	2.09	0.53
1:A:472:PHE:HB3	3:C:367:TYR:CE2	2.44	0.53
1:A:485:ARG:HA	1:A:488:ALA:HB3	1.90	0.53
2:B:87:GLU:O	2:B:91:ARG:HG2	2.08	0.53
2:B:165:TYR:CE2	2:B:204:MET:HB2	2.44	0.53
2:B:390:VAL:HA	2:B:393:ILE:CD1	2.39	0.53
4:D:270:ASP:HB3	4:D:312:ALA:HA	1.91	0.53
4:D:377:LEU:O	4:D:381:VAL:HG23	2.09	0.53
4:D:385:LEU:HD13	6:F:238:ILE:CG1	2.39	0.53
5:E:64:LYS:HD2	6:F:116:PHE:CE1	2.44	0.53
5:E:158:ASN:CA	5:E:161:PHE:HB2	2.31	0.53
5:E:262:THR:O	5:E:265:GLN:HB2	2.08	0.53
5:E:262:THR:CA	5:E:265:GLN:HB2	2.36	0.53
6:F:269:VAL:O	6:F:270:LEU:HB2	2.09	0.53
8:O:39:PHE:CZ	10:Q:36:PRO:O	2.61	0.53
8:O:100:TYR:O	8:O:104:LEU:HG	2.08	0.53
8:O:420:THR:HA	8:O:423:LYS:CE	2.35	0.53
8:O:442:ARG:HB3	8:O:447:LEU:C	2.29	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:491:ASN:HA	8:O:494:ILE:HB	1.91	0.53
8:O:584:VAL:HG12	8:O:610:LEU:HD13	1.90	0.53
8:O:687:ILE:CG1	8:O:706:GLN:HE22	2.16	0.53
9:P:45:TYR:OH	9:P:80:ARG:NH1	2.40	0.53
12:V:113:ARG:HG2	12:V:138:PRO:O	2.08	0.53
1:A:413:TYR:O	1:A:416:PRO:HD2	2.10	0.52
2:B:20:TYR:H	8:O:652:LYS:CG	2.20	0.52
2:B:431:LEU:HD23	2:B:434:LEU:CD2	2.38	0.52
2:B:442:LEU:HA	6:F:314:ASP:OD2	2.09	0.52
3:C:68:MET:HB3	3:C:71:VAL:CG2	2.39	0.52
3:C:132:GLN:C	3:C:133:MET:HE2	2.30	0.52
3:C:191:ILE:HG22	3:C:195:LEU:CD1	2.38	0.52
3:C:279:VAL:HA	3:C:286:PHE:CE2	2.44	0.52
3:C:355:ASP:HB3	3:C:357:MET:CE	2.37	0.52
3:C:396:GLU:HA	3:C:399:VAL:CG2	2.39	0.52
4:D:104:ALA:HA	4:D:107:ARG:HD2	1.89	0.52
4:D:109:HIS:HA	4:D:112:SER:HB2	1.90	0.52
4:D:180:ASN:HB3	4:D:183:LEU:CB	2.39	0.52
4:D:233:THR:HG23	4:D:245:MET:HB3	1.91	0.52
4:D:240:GLN:HG3	4:D:244:ARG:HH12	1.73	0.52
4:D:304:VAL:HA	4:D:308:ASN:CB	2.24	0.52
4:D:384:LEU:HD21	6:F:259:GLU:HB3	1.89	0.52
5:E:70:ARG:HG2	6:F:193:GLU:OE2	2.09	0.52
5:E:242:TRP:CD1	6:F:229:LYS:NZ	2.76	0.52
5:E:254:SER:CB	5:E:317:GLY:HA2	2.39	0.52
5:E:279:GLN:OE1	5:E:299:LYS:N	2.42	0.52
5:E:308:CYS:O	7:H:207:LEU:HD13	2.09	0.52
5:E:312:ILE:HG22	5:E:316:HIS:HE1	1.74	0.52
6:F:107:THR:O	6:F:111:GLN:HG3	2.09	0.52
7:H:125:TYR:CD2	7:H:128:ILE:HD12	2.44	0.52
8:O:181:ILE:HD12	8:O:253:TYR:CD1	2.43	0.52
8:O:259:TYR:O	8:O:263:ILE:HB	2.09	0.52
8:O:368:LEU:O	8:O:372:LEU:HD23	2.08	0.52
8:O:437:ARG:HA	8:O:518:PRO:CB	2.39	0.52
8:O:443:LEU:HD11	8:O:480:MET:CE	2.39	0.52
8:O:512:LEU:HG	11:R:32:LEU:HB3	1.91	0.52
11:R:78:ALA:CB	11:R:100:GLU:HB3	2.39	0.52
13:G:111:ILE:HG21	13:G:116:LEU:HD23	1.91	0.52
1:A:146:GLN:OE1	1:A:149:PRO:HB2	2.08	0.52
2:B:32:LEU:CG	8:O:649:THR:OG1	2.57	0.52
2:B:165:TYR:HA	2:B:168:LEU:CB	2.29	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:390:VAL:HA	2:B:393:ILE:CG1	2.40	0.52
2:B:393:ILE:CA	2:B:398:ILE:HD13	2.39	0.52
3:C:152:ALA:O	3:C:154:CYS:N	2.41	0.52
4:D:30:LEU:HG	4:D:34:ILE:CD1	2.40	0.52
4:D:83:GLU:HA	4:D:86:HIS:HD2	1.73	0.52
4:D:92:ILE:CD1	4:D:103:VAL:HG13	2.33	0.52
5:E:31:TYR:CD1	5:E:36:GLN:HG3	2.45	0.52
7:H:114:ARG:O	7:H:118:PHE:CB	2.55	0.52
7:H:130:ALA:HB3	7:H:160:ARG:NH1	2.24	0.52
8:O:53:LEU:HG	8:O:56:ARG:NH1	2.23	0.52
8:O:116:ASN:HA	8:O:120:GLU:CD	2.30	0.52
8:O:413:ASP:O	8:O:416:THR:HB	2.08	0.52
8:O:469:PHE:O	8:O:472:LYS:HB2	2.09	0.52
8:O:615:LYS:HG2	8:O:628:GLU:OE1	2.10	0.52
12:V:108:ARG:O	12:V:109:ILE:HD13	2.09	0.52
12:V:116:LEU:HA	12:V:135:LEU:CD1	2.39	0.52
1:A:119:LEU:HD12	1:A:131:TYR:CE1	2.44	0.52
2:B:32:LEU:CD2	8:O:649:THR:HG1	2.00	0.52
2:B:92:TYR:HA	2:B:95:LEU:HD12	1.90	0.52
2:B:326:PHE:HZ	2:B:354:ILE:HD13	1.75	0.52
2:B:333:ASN:OD1	2:B:337:ILE:HG13	2.09	0.52
3:C:395:GLN:O	3:C:398:THR:HB	2.09	0.52
3:C:402:GLN:HE22	6:F:312:LEU:HD21	1.74	0.52
4:D:100:GLU:HB3	4:D:137:LYS:CB	2.39	0.52
4:D:297:SER:H	4:D:302:ARG:HH22	1.56	0.52
4:D:324:LEU:CD2	4:D:359:VAL:HB	2.39	0.52
4:D:388:ILE:HG12	4:D:396:THR:CB	2.39	0.52
5:E:51:TYR:CE1	5:E:88:GLU:HG2	2.44	0.52
5:E:124:ALA:HB1	5:E:129:ARG:CB	2.39	0.52
5:E:151:ASP:O	5:E:154:THR:HB	2.10	0.52
5:E:237:LEU:HD23	6:F:163:LEU:CD1	2.39	0.52
5:E:327:LEU:HD23	13:G:181:CYS:C	2.26	0.52
6:F:31:MET:SD	6:F:183:PHE:HB2	2.49	0.52
6:F:82:GLU:HG2	6:F:84:MET:SD	2.49	0.52
7:H:13:PHE:CD1	7:H:46:LEU:HD13	2.44	0.52
7:H:100:GLU:H	7:H:104:PRO:HG3	1.75	0.52
8:O:73:HIS:ND1	8:O:150:LEU:HG	2.23	0.52
8:O:429:ASP:HA	8:O:432:GLN:HG3	1.91	0.52
8:O:456:ALA:HA	8:O:459:ASN:OD1	2.09	0.52
8:O:565:LYS:HG2	8:O:574:VAL:CG1	2.30	0.52
8:O:575:ALA:HB1	8:O:653:ILE:CG1	2.26	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:584:VAL:HG11	8:O:610:LEU:HD13	1.90	0.52
9:P:37:ARG:HD3	9:P:38:PRO:CD	2.40	0.52
11:R:52:LEU:HD11	11:R:69:THR:HB	1.91	0.52
12:V:78:ASN:HB3	12:V:105:THR:H	1.75	0.52
12:V:80:SER:OG	12:V:153:LEU:N	2.42	0.52
12:V:197:ASP:O	12:V:201:LEU:HG	2.08	0.52
2:B:324:THR:O	2:B:328:LYS:HG3	2.10	0.52
3:C:40:SER:O	3:C:43:ASP:HB3	2.09	0.52
3:C:237:LYS:HA	3:C:267:TYR:CE2	2.44	0.52
3:C:248:ILE:HA	3:C:251:ARG:CG	2.40	0.52
4:D:100:GLU:HB3	4:D:137:LYS:HD3	1.89	0.52
5:E:205:THR:HG23	5:E:302:LYS:CG	2.33	0.52
5:E:311:THR:O	5:E:315:ILE:HG13	2.09	0.52
5:E:312:ILE:HG13	7:H:207:LEU:HD13	1.89	0.52
6:F:35:VAL:HG13	6:F:171:VAL:HG22	1.91	0.52
6:F:271:SER:HA	6:F:276:LYS:CE	2.40	0.52
8:O:148:ARG:HG3	8:O:149:LYS:N	2.25	0.52
8:O:333:GLU:OE2	8:O:338:LEU:HG	2.10	0.52
8:O:335:MET:SD	8:O:336:PRO:HD2	2.50	0.52
8:O:409:ASN:HB3	8:O:413:ASP:OD2	2.09	0.52
8:O:415:LEU:HA	8:O:418:PHE:CD2	2.45	0.52
8:O:586:LEU:HA	8:O:589:ASN:ND2	2.25	0.52
9:P:2:ASP:HB3	10:Q:66:LYS:HZ2	1.75	0.52
9:P:7:ILE:HG23	9:P:44:LEU:HD22	1.92	0.52
11:R:78:ALA:CA	11:R:100:GLU:HB3	2.39	0.52
12:V:74:VAL:HG22	12:V:140:LEU:N	2.23	0.52
13:G:49:LEU:HD12	13:G:49:LEU:N	2.24	0.52
1:A:305:CYS:O	1:A:308:LEU:HB2	2.08	0.52
1:A:394:LEU:CD1	1:A:401:LEU:HD12	2.39	0.52
1:A:396:PRO:HG2	1:A:397:HIS:CD2	2.44	0.52
1:A:436:LEU:HD12	1:A:439:GLU:OE1	2.09	0.52
1:A:469:SER:HA	1:A:472:PHE:CD2	2.44	0.52
1:A:472:PHE:HE1	6:F:288:LEU:HD22	1.74	0.52
1:A:492:ARG:NH1	3:C:210:THR:O	2.43	0.52
2:B:303:LYS:HD2	2:B:312:THR:HG21	1.90	0.52
3:C:117:PRO:HB3	3:C:151:LEU:HD12	1.92	0.52
4:D:214:LYS:O	4:D:217:VAL:HB	2.09	0.52
4:D:309:LEU:O	4:D:313:SER:HB2	2.09	0.52
4:D:315:LEU:HA	13:G:134:GLU:OE1	2.10	0.52
4:D:362:GLU:HG2	4:D:364:ARG:N	2.24	0.52
4:D:384:LEU:HD11	6:F:259:GLU:OE1	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:84:LYS:HG3	5:E:91:ILE:CD1	2.40	0.52
5:E:103:THR:O	5:E:104:GLU:HB3	2.09	0.52
5:E:324:LYS:HB3	5:E:328:PHE:CD2	2.45	0.52
7:H:13:PHE:CE1	7:H:108:ALA:HB1	2.45	0.52
8:O:24:VAL:CA	8:O:27:LEU:O	2.53	0.52
8:O:32:ARG:HH12	10:Q:41:LYS:CE	2.22	0.52
8:O:278:LEU:O	8:O:282:CYS:HB2	2.10	0.52
8:O:620:VAL:CG1	8:O:622:MET:HG3	2.40	0.52
8:O:693:VAL:HG12	8:O:699:LEU:HB2	1.90	0.52
9:P:3:VAL:HA	9:P:64:SER:HA	1.92	0.52
11:R:44:ILE:CG1	11:R:83:CYS:HA	2.40	0.52
11:R:84:ILE:HG21	11:R:100:GLU:O	2.10	0.52
1:A:81:SER:HG	1:A:387:ASN:H	1.57	0.52
1:A:94:LEU:CD1	1:A:248:LEU:HD23	2.39	0.52
1:A:119:LEU:HD13	1:A:162:LEU:CD1	2.40	0.52
1:A:292:ALA:O	1:A:295:ALA:HB3	2.09	0.52
1:A:411:ILE:HA	1:A:448:LEU:CD1	2.39	0.52
1:A:491:LEU:O	1:A:495:VAL:HG13	2.09	0.52
1:A:492:ARG:CZ	1:A:496:LEU:HD21	2.40	0.52
2:B:28:PRO:C	2:B:31:ASP:CG	2.66	0.52
2:B:438:VAL:HG13	6:F:306:VAL:HG21	1.92	0.52
2:B:438:VAL:O	2:B:441:LYS:HG2	2.10	0.52
3:C:377:ASP:O	3:C:380:MET:HB3	2.10	0.52
4:D:6:ARG:NH1	4:D:47:ALA:HB2	2.24	0.52
4:D:12:LEU:O	4:D:15:SER:HB3	2.10	0.52
4:D:155:TYR:CB	4:D:164:ALA:HB2	2.40	0.52
4:D:211:LEU:HB2	4:D:225:ALA:CB	2.40	0.52
4:D:388:ILE:CG1	4:D:396:THR:CB	2.86	0.52
5:E:244:LYS:HE3	6:F:230:MET:O	2.09	0.52
8:O:83:VAL:CA	8:O:86:MET:HB2	2.37	0.52
8:O:312:ILE:CG1	8:O:363:HIS:HB3	2.39	0.52
8:O:538:GLN:HG3	8:O:539:MET:HE3	1.92	0.52
8:O:618:LEU:HD22	8:O:625:HIS:CE1	2.45	0.52
11:R:45:CYS:CB	11:R:54:ILE:H	2.18	0.52
13:G:27:LEU:CD2	13:G:31:ILE:HB	2.39	0.52
1:A:368:LYS:HA	1:A:371:GLU:HB2	1.91	0.52
1:A:378:LEU:CD1	1:A:406:ARG:HH11	2.22	0.52
1:A:422:MET:HG3	1:A:459:ILE:HA	1.91	0.52
2:B:9:MET:O	2:B:13:GLU:HG2	2.10	0.52
2:B:80:PHE:HB3	2:B:85:PHE:CE1	2.43	0.52
2:B:89:MET:O	2:B:93:LYS:HG3	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:114:SER:HA	2:B:117:ASP:OD2	2.09	0.52
2:B:340:ASP:HB3	2:B:343:ILE:CB	2.34	0.52
3:C:23:GLN:HE21	3:C:27:LEU:HD23	1.75	0.52
4:D:178:SER:OG	4:D:183:LEU:HD23	2.10	0.52
4:D:371:ASP:HA	4:D:374:ILE:HB	1.92	0.52
5:E:43:LYS:HA	5:E:45:TRP:CH2	2.45	0.52
6:F:152:LEU:CG	6:F:165:VAL:HG13	2.36	0.52
7:H:23:GLN:OE1	7:H:36:VAL:HG13	2.10	0.52
8:O:218:TYR:OH	8:O:242:ARG:HD3	2.09	0.52
8:O:249:ARG:HG2	8:O:253:TYR:CE1	2.45	0.52
8:O:302:ARG:HA	8:O:308:LEU:CD2	2.40	0.52
8:O:385:CYS:HA	8:O:427:ASP:CB	2.36	0.52
8:O:505:ILE:CB	8:O:533:LEU:HD21	2.38	0.52
8:O:622:MET:HE2	8:O:653:ILE:HB	1.91	0.52
9:P:12:THR:OG1	10:Q:15:GLU:OE1	2.28	0.52
9:P:27:LEU:HD11	9:P:75:VAL:HG13	1.92	0.52
9:P:28:LYS:HD3	9:P:31:VAL:HB	1.92	0.52
11:R:87:TRP:NE1	11:R:91:ARG:HB3	2.24	0.52
12:V:138:PRO:HA	12:V:147:ILE:HG21	1.92	0.52
13:G:76:PRO:HG3	13:G:119:ASP:OD1	2.09	0.52
13:G:109:LYS:N	13:G:109:LYS:HD2	2.24	0.52
13:G:111:ILE:HG22	13:G:112:PRO:O	2.09	0.52
13:G:194:ARG:O	13:G:198:TYR:HD1	1.93	0.52
2:B:192:THR:HB	2:B:230:HIS:CG	2.45	0.52
2:B:258:PHE:CG	2:B:280:LEU:HD13	2.44	0.52
2:B:438:VAL:HA	2:B:441:LYS:HE3	1.91	0.52
3:C:140:SER:HB3	3:C:175:ALA:O	2.10	0.52
3:C:380:MET:HG2	3:C:384:ILE:HD11	1.91	0.52
4:D:60:VAL:HA	4:D:63:ARG:CD	2.40	0.52
4:D:263:ILE:HD12	4:D:273:ILE:HD12	1.90	0.52
4:D:362:GLU:O	4:D:364:ARG:HG3	2.10	0.52
4:D:400:MET:HA	6:F:237:LEU:HD21	1.90	0.52
5:E:80:LEU:HG	5:E:117:MET:HE3	1.92	0.52
6:F:73:ILE:HD13	6:F:119:LEU:HB3	1.91	0.52
7:H:28:PRO:CG	7:H:31:ILE:H	2.23	0.52
8:O:224:SER:O	8:O:228:GLN:HG3	2.09	0.52
8:O:236:MET:HE3	8:O:300:LEU:HD12	1.92	0.52
8:O:379:ARG:CD	8:O:381:PRO:HG2	2.39	0.52
8:O:489:LYS:O	8:O:493:PHE:N	2.38	0.52
8:O:720:LYS:O	11:R:46:ARG:HD2	2.10	0.52
11:R:88:LEU:HD12	11:R:92:GLN:CA	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:V:75:ILE:HA	12:V:108:ARG:HA	1.92	0.52
12:V:146:PRO:CB	12:V:148:PHE:HB2	2.31	0.52
1:A:138:LEU:HD23	1:A:162:LEU:HB2	1.92	0.52
2:B:125:MET:HA	2:B:128:LEU:HB3	1.91	0.52
2:B:144:ASN:HB3	2:B:148:TRP:HB2	1.91	0.52
2:B:354:ILE:O	2:B:358:VAL:HG23	2.10	0.52
3:C:78:PHE:CE1	3:C:120:GLY:HA2	2.44	0.52
4:D:1:MET:HA	4:D:36:LEU:HD21	1.92	0.52
4:D:95:ARG:HB3	4:D:98:SER:HB2	1.92	0.52
4:D:211:LEU:HD23	4:D:214:LYS:HD2	1.92	0.52
4:D:275:GLY:C	4:D:278:LEU:HB3	2.30	0.52
4:D:324:LEU:O	4:D:327:LEU:HB3	2.09	0.52
5:E:76:GLU:OE2	5:E:143:TYR:OH	2.26	0.52
5:E:114:TYR:O	5:E:118:ALA:N	2.42	0.52
6:F:113:LYS:NZ	6:F:119:LEU:O	2.42	0.52
8:O:34:THR:HA	8:O:37:ASP:CB	2.40	0.52
8:O:38:ARG:NH1	8:O:42:ILE:HD11	2.13	0.52
8:O:44:ALA:O	8:O:48:ALA:CB	2.50	0.52
8:O:200:LEU:HB3	8:O:204:GLN:HG3	1.91	0.52
8:O:336:PRO:HB3	8:O:394:TYR:HB2	1.92	0.52
9:P:98:GLU:O	10:Q:85:GLU:CB	2.57	0.52
13:G:97:LYS:O	13:G:101:ILE:HG23	2.10	0.52
1:A:354:LEU:O	1:A:358:LEU:HG	2.09	0.52
1:A:421:ASP:HA	1:A:459:ILE:HG12	1.92	0.52
2:B:163:GLU:HG2	2:B:203:GLN:HG3	1.91	0.52
2:B:385:VAL:O	2:B:388:LEU:HD23	2.10	0.52
3:C:141:ILE:HA	3:C:144:ASP:OD2	2.10	0.52
3:C:233:ILE:HG12	3:C:298:CYS:HA	1.92	0.52
3:C:397:ILE:HD13	6:F:309:PHE:N	2.25	0.52
4:D:242:ARG:NH2	4:D:267:MET:HE1	2.25	0.52
4:D:275:GLY:O	4:D:279:GLN:HG3	2.10	0.52
4:D:286:MET:HB2	4:D:288:HIS:CE1	2.45	0.52
5:E:79:GLY:HA2	5:E:113:ALA:HB3	1.91	0.52
5:E:188:THR:HG22	5:E:221:TYR:CB	2.36	0.52
7:H:61:PRO:CG	7:H:64:ILE:HD12	2.40	0.52
8:O:25:VAL:O	8:O:27:LEU:CD2	2.54	0.52
8:O:379:ARG:HG2	8:O:384:VAL:CG2	2.32	0.52
8:O:414:ARG:HH11	8:O:417:SER:HB2	1.75	0.52
8:O:462:LYS:HD2	8:O:470:THR:OG1	2.10	0.52
8:O:490:PHE:CD1	8:O:543:PHE:HE2	2.28	0.52
8:O:495:LYS:NZ	8:O:495:LYS:CB	2.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:512:LEU:HB2	11:R:33:TRP:C	2.30	0.52
8:O:567:ASN:H	11:R:19:LYS:C	2.13	0.52
8:O:612:LYS:NZ	8:O:656:SER:HA	2.25	0.52
9:P:98:GLU:O	10:Q:85:GLU:CA	2.58	0.52
12:V:113:ARG:HA	12:V:137:VAL:HG13	1.92	0.52
1:A:267:ILE:HB	1:A:282:LEU:HD21	1.90	0.51
2:B:77:LYS:HA	2:B:80:PHE:CZ	2.44	0.51
2:B:235:GLY:HA3	2:B:261:ALA:HB1	1.93	0.51
2:B:236:VAL:O	2:B:239:GLU:CB	2.42	0.51
2:B:420:ARG:NH2	5:E:260:ASP:OD1	2.43	0.51
3:C:39:LEU:HD22	3:C:64:VAL:HB	1.92	0.51
3:C:62:LEU:HD13	3:C:77:LEU:HD22	1.92	0.51
3:C:90:GLY:O	3:C:130:LYS:HB3	2.10	0.51
4:D:59:LEU:HA	4:D:95:ARG:HH22	1.75	0.51
4:D:107:ARG:CD	4:D:130:ILE:HG12	2.40	0.51
4:D:170:ARG:CB	11:R:76:ASN:HD22	2.22	0.51
5:E:69:ALA:CB	5:E:172:PRO:HB3	2.41	0.51
5:E:174:ARG:O	5:E:178:ALA:HB3	2.10	0.51
5:E:176:ILE:HA	6:F:194:GLU:CG	2.37	0.51
5:E:250:LEU:N	6:F:225:HIS:ND1	2.50	0.51
6:F:41:VAL:HG11	6:F:73:ILE:CB	2.40	0.51
6:F:248:GLY:O	6:F:250:VAL:O	2.28	0.51
6:F:263:LEU:O	6:F:267:LEU:HG	2.10	0.51
7:H:41:LEU:CG	7:H:74:ILE:HG22	2.40	0.51
7:H:129:ILE:CG2	7:H:131:ASP:HB2	2.40	0.51
8:O:30:VAL:O	8:O:35:TRP:CE2	2.64	0.51
8:O:51:GLU:CB	8:O:52:PRO:HD3	2.38	0.51
8:O:65:LEU:CD2	8:O:142:LEU:HG	2.35	0.51
8:O:530:PRO:HD2	8:O:533:LEU:HD11	1.92	0.51
8:O:569:LEU:CD1	11:R:19:LYS:CA	2.86	0.51
8:O:569:LEU:CB	11:R:18:LYS:HB3	2.32	0.51
8:O:614:ILE:HG21	8:O:627:SER:O	2.10	0.51
9:P:11:LYS:HA	9:P:91:GLU:OE1	2.10	0.51
12:V:60:ARG:HD2	12:V:64:ARG:CA	2.40	0.51
1:A:130:MET:HA	1:A:133:GLU:CB	2.40	0.51
2:B:302:TYR:CZ	11:R:35:TRP:CZ3	2.98	0.51
2:B:437:ALA:O	2:B:441:LYS:HE3	2.10	0.51
3:C:84:PHE:O	3:C:89:ASN:N	2.44	0.51
3:C:331:PRO:O	3:C:335:GLU:HG2	2.09	0.51
3:C:341:MET:HA	3:C:346:GLU:CB	2.35	0.51
4:D:152:ALA:O	4:D:156:LEU:HG	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:187:TYR:CD2	4:D:188:LYS:HD2	2.40	0.51
4:D:385:LEU:HD11	6:F:237:LEU:HB3	1.93	0.51
5:E:170:ILE:HD11	5:E:183:LEU:HD12	1.91	0.51
5:E:246:TRP:CZ3	5:E:247:VAL:HG22	2.44	0.51
5:E:323:ILE:HG12	7:H:197:LEU:HD11	1.90	0.51
6:F:35:VAL:HG13	6:F:171:VAL:CG2	2.40	0.51
6:F:52:SER:O	6:F:56:ILE:HG12	2.10	0.51
8:O:169:ASN:HB3	8:O:173:GLY:C	2.29	0.51
8:O:442:ARG:HD2	8:O:447:LEU:O	2.10	0.51
8:O:480:MET:HB2	8:O:510:TYR:HE1	1.75	0.51
8:O:588:PHE:CE1	8:O:599:LEU:HB2	2.45	0.51
9:P:40:ASP:OD1	9:P:52:ASP:HA	2.10	0.51
12:V:111:SER:OG	12:V:138:PRO:HD3	2.09	0.51
12:V:160:GLU:O	12:V:164:GLN:HG3	2.11	0.51
13:G:164:LYS:HB2	13:G:164:LYS:NZ	2.25	0.51
1:A:135:HIS:ND1	1:A:162:LEU:HB3	2.26	0.51
1:A:208:TYR:CZ	1:A:216:ASN:HB3	2.45	0.51
1:A:339:ARG:O	1:A:342:LEU:HB2	2.10	0.51
2:B:165:TYR:CE1	2:B:168:LEU:HD23	2.44	0.51
2:B:400:GLY:N	2:B:412:ASP:H	2.08	0.51
3:C:94:ARG:HG2	3:C:172:GLU:OE1	2.11	0.51
4:D:62:SER:HB2	4:D:95:ARG:HH22	1.75	0.51
4:D:107:ARG:NH1	4:D:126:VAL:O	2.43	0.51
4:D:250:PHE:CE1	4:D:265:GLU:HA	2.46	0.51
4:D:319:ILE:N	4:D:359:VAL:HG12	2.25	0.51
5:E:268:ASP:HB3	5:E:272:LYS:NZ	2.24	0.51
6:F:67:GLN:CD	6:F:98:ILE:HD11	2.30	0.51
8:O:32:ARG:HA	8:O:35:TRP:CG	2.45	0.51
8:O:62:LYS:HG3	8:O:142:LEU:CD1	2.41	0.51
8:O:386:LYS:O	8:O:390:LEU:HG	2.10	0.51
8:O:540:PHE:O	8:O:544:TYR:HB3	2.10	0.51
8:O:692:LYS:CD	8:O:743:TYR:HB2	2.18	0.51
8:O:693:VAL:C	8:O:699:LEU:HG	2.31	0.51
8:O:700:ILE:HG23	8:O:701:GLN:N	2.25	0.51
8:O:710:ARG:HB3	8:O:711:PHE:CD1	2.43	0.51
11:R:19:LYS:HA	11:R:23:GLU:OE2	2.10	0.51
11:R:84:ILE:HD13	11:R:100:GLU:C	2.29	0.51
12:V:83:VAL:HA	12:V:101:LEU:O	2.10	0.51
12:V:182:ARG:HG2	12:V:183:SER:N	2.25	0.51
13:G:31:ILE:CD1	13:G:63:TYR:CD1	2.93	0.51
1:A:269:GLU:HB2	1:A:273:GLU:HA	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:310:SER:CB	1:A:351:SER:HB3	2.39	0.51
1:A:311:PHE:HD2	1:A:354:LEU:HD13	1.75	0.51
1:A:436:LEU:O	1:A:439:GLU:HB2	2.10	0.51
2:B:76:ILE:HD11	2:B:92:TYR:N	2.25	0.51
2:B:304:ASN:C	2:B:309:LEU:HD23	2.30	0.51
2:B:328:LYS:O	2:B:331:LYS:HB3	2.11	0.51
2:B:347:ILE:O	2:B:351:LEU:HD23	2.10	0.51
2:B:353:ASN:O	2:B:356:THR:HB	2.10	0.51
3:C:5:LEU:HD13	3:C:42:LEU:HD11	1.92	0.51
3:C:60:ALA:HA	3:C:103:LEU:HD11	1.92	0.51
3:C:154:CYS:HB2	7:H:59:ARG:CD	2.41	0.51
3:C:248:ILE:HB	3:C:252:PHE:CD2	2.46	0.51
3:C:319:LEU:HD21	3:C:338:VAL:CG2	2.41	0.51
3:C:352:ASN:ND2	3:C:357:MET:HB2	2.25	0.51
3:C:397:ILE:HG23	3:C:400:ASN:ND2	2.25	0.51
4:D:215:THR:HA	4:D:222:ARG:CD	2.40	0.51
5:E:60:LEU:O	5:E:63:LEU:HB2	2.11	0.51
5:E:161:PHE:CB	5:E:162:GLN:HG3	2.40	0.51
5:E:189:TYR:CZ	5:E:222:TYR:HB3	2.46	0.51
5:E:240:LEU:HB3	6:F:163:LEU:HB2	1.92	0.51
6:F:81:ILE:HD12	6:F:186:LEU:HD23	1.91	0.51
8:O:110:THR:CB	10:Q:28:THR:CG2	2.80	0.51
8:O:306:THR:O	8:O:309:PRO:HD2	2.09	0.51
8:O:512:LEU:HG	11:R:32:LEU:CB	2.41	0.51
8:O:512:LEU:O	8:O:551:ARG:CD	2.59	0.51
13:G:18:LEU:CD1	13:G:30:LEU:HD13	2.41	0.51
13:G:41:TYR:HB3	13:G:70:PHE:HB3	1.91	0.51
13:G:69:LEU:HD23	13:G:96:LEU:CD1	2.28	0.51
13:G:144:LYS:HG3	13:G:145:LEU:N	2.26	0.51
1:A:255:LEU:HA	1:A:258:VAL:CG2	2.40	0.51
1:A:303:ALA:HB2	1:A:332:CYS:CB	2.37	0.51
1:A:454:ASP:HB3	1:A:457:SER:HB3	1.91	0.51
1:A:487:LYS:HD3	3:C:165:ASP:HB2	1.93	0.51
3:C:8:PHE:O	3:C:12:VAL:HG23	2.10	0.51
3:C:233:ILE:CA	3:C:301:SER:HB3	2.34	0.51
3:C:283:SER:O	3:C:287:THR:HG23	2.10	0.51
3:C:341:MET:O	3:C:346:GLU:HB2	2.11	0.51
4:D:88:THR:CG2	4:D:106:ILE:HD13	2.40	0.51
4:D:92:ILE:HG22	4:D:96:VAL:CB	2.40	0.51
4:D:101:GLU:OE2	4:D:138:GLN:N	2.44	0.51
4:D:111:ALA:HA	4:D:114:TYR:HD2	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:145:LEU:HD13	4:D:171:ALA:O	2.11	0.51
4:D:199:ARG:HB3	4:D:201:PHE:CE2	2.45	0.51
4:D:287:PRO:HA	4:D:290:LYS:HB2	1.91	0.51
4:D:317:ASN:CG	4:D:363:THR:HA	2.31	0.51
5:E:75:LEU:HB3	5:E:100:VAL:O	2.10	0.51
5:E:80:LEU:HD13	5:E:114:TYR:CE1	2.45	0.51
6:F:72:LEU:HD11	6:F:152:LEU:CB	2.41	0.51
6:F:102:LYS:NZ	6:F:141:GLN:HG2	2.25	0.51
6:F:108:LYS:O	6:F:111:GLN:HB2	2.11	0.51
6:F:139:HIS:ND1	6:F:151:PHE:HB2	2.25	0.51
6:F:245:SER:CB	6:F:256:ILE:HG13	2.41	0.51
8:O:43:TYR:OH	10:Q:48:GLN:CD	2.47	0.51
8:O:398:LEU:HB3	8:O:415:LEU:HD21	1.91	0.51
8:O:575:ALA:HB2	8:O:650:LYS:HE3	1.92	0.51
9:P:8:ARG:HD3	9:P:91:GLU:HB3	1.91	0.51
9:P:71:ALA:CA	10:Q:59:GLU:CG	2.87	0.51
13:G:17:LEU:CD2	13:G:20:LYS:HD2	2.41	0.51
13:G:76:PRO:O	13:G:79:ILE:HB	2.11	0.51
1:A:258:VAL:HG22	1:A:285:LEU:HD22	1.91	0.51
1:A:297:ARG:HH12	12:V:142:VAL:HB	1.76	0.51
1:A:340:GLN:HB3	1:A:344:ARG:NH1	2.25	0.51
1:A:349:SER:OG	1:A:352:PHE:HB3	2.11	0.51
1:A:394:LEU:HG	1:A:398:VAL:CB	2.41	0.51
2:B:359:LEU:HD21	2:B:378:LEU:CD2	2.40	0.51
2:B:362:LEU:O	2:B:365:PRO:HD2	2.10	0.51
2:B:369:ILE:HB	2:B:374:ILE:CD1	2.40	0.51
2:B:429:ASN:O	2:B:432:ASN:HB3	2.10	0.51
3:C:98:ASP:HA	3:C:175:ALA:HA	1.92	0.51
3:C:210:THR:HA	3:C:245:THR:HA	1.93	0.51
5:E:44:PRO:HD2	5:E:45:TRP:CZ3	2.46	0.51
5:E:67:MET:CE	6:F:42:ALA:HB1	2.41	0.51
5:E:248:ASN:CB	6:F:222:ILE:HD12	2.40	0.51
5:E:269:LEU:HA	5:E:272:LYS:HB2	1.91	0.51
6:F:271:SER:HA	6:F:276:LYS:NZ	2.24	0.51
7:H:133:PHE:HD1	7:H:136:PHE:HD2	1.57	0.51
8:O:26:MET:HE2	8:O:90:TYR:O	2.04	0.51
8:O:223:ALA:HB2	8:O:270:MET:CB	2.41	0.51
8:O:357:VAL:HA	8:O:359:ASN:ND2	2.26	0.51
8:O:442:ARG:HB3	8:O:447:LEU:O	2.10	0.51
8:O:562:GLY:CA	8:O:577:VAL:H	2.21	0.51
8:O:563:GLU:OE1	8:O:565:LYS:NZ	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:728:LYS:O	8:O:729:GLN:HB2	2.10	0.51
9:P:65:GLN:C	9:P:68:ARG:HB3	2.31	0.51
9:P:65:GLN:OE1	9:P:68:ARG:HB2	2.11	0.51
11:R:40:ASP:HB2	11:R:77:HIS:ND1	2.23	0.51
12:V:90:ASN:ND2	12:V:96:GLN:OE1	2.43	0.51
12:V:113:ARG:HG2	12:V:138:PRO:HG2	1.92	0.51
13:G:42:VAL:HG12	13:G:162:ILE:HD12	1.93	0.51
13:G:66:LEU:HD13	13:G:85:LEU:CD1	2.39	0.51
1:A:492:ARG:O	1:A:496:LEU:HG	2.11	0.51
2:B:18:LEU:HB3	8:O:648:ARG:HD2	1.87	0.51
2:B:172:LEU:HD22	2:B:197:ILE:CG1	2.41	0.51
2:B:351:LEU:O	2:B:354:ILE:HG13	2.11	0.51
2:B:369:ILE:HD12	2:B:374:ILE:HD12	1.93	0.51
3:C:53:GLU:HA	3:C:84:PHE:CE1	2.45	0.51
3:C:76:THR:O	3:C:80:GLN:HG3	2.11	0.51
3:C:374:HIS:HA	3:C:377:ASP:OD2	2.10	0.51
3:C:393:MET:HB3	6:F:305:PHE:CE1	2.46	0.51
4:D:2:ALA:CB	4:D:43:GLU:HB3	2.40	0.51
4:D:170:ARG:NH1	4:D:171:ALA:HB2	2.26	0.51
4:D:175:GLN:HG2	11:R:99:ARG:NH2	2.26	0.51
4:D:281:PHE:CA	4:D:284:MET:HB2	2.38	0.51
5:E:69:ALA:CB	5:E:139:SER:HB2	2.38	0.51
5:E:246:TRP:N	6:F:229:LYS:CD	2.72	0.51
5:E:272:LYS:CD	5:E:306:ASP:HB3	2.41	0.51
6:F:39:VAL:HG22	6:F:122:LEU:HD11	1.92	0.51
6:F:43:LEU:HD23	6:F:191:ALA:CB	2.40	0.51
6:F:109:GLU:HG2	6:F:110:GLU:N	2.26	0.51
6:F:151:PHE:CB	6:F:168:PHE:HB2	2.34	0.51
7:H:102:VAL:HG12	7:H:106:MET:CG	2.40	0.51
8:O:7:VAL:HA	8:O:53:LEU:HD21	1.93	0.51
8:O:7:VAL:CA	8:O:53:LEU:HD21	2.41	0.51
11:R:40:ASP:OD2	11:R:99:ARG:HG3	2.11	0.51
12:V:78:ASN:HB2	12:V:101:LEU:CD1	2.40	0.51
1:A:258:VAL:HG22	1:A:285:LEU:CD2	2.41	0.51
1:A:349:SER:CB	1:A:356:LEU:HD11	2.41	0.51
1:A:368:LYS:CD	1:A:377:CYS:HA	2.41	0.51
1:A:368:LYS:HD3	1:A:377:CYS:HA	1.91	0.51
1:A:451:ALA:CB	1:A:460:LEU:HD11	2.41	0.51
2:B:170:LYS:HA	2:B:173:ARG:HH21	1.75	0.51
2:B:347:ILE:HG23	2:B:348:GLU:H	1.75	0.51
2:B:382:VAL:HA	2:B:385:VAL:CG2	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:412:ASP:OD1	2:B:414:GLN:N	2.43	0.51
3:C:15:LEU:HA	3:C:18:GLN:HB2	1.93	0.51
3:C:98:ASP:HA	3:C:175:ALA:CA	2.41	0.51
3:C:122:GLY:CA	3:C:125:LYS:HE2	2.41	0.51
3:C:182:LEU:HD22	3:C:219:ILE:HG21	1.92	0.51
3:C:372:MET:O	3:C:375:ASN:HB3	2.11	0.51
4:D:92:ILE:HG21	4:D:103:VAL:HG11	1.93	0.51
4:D:107:ARG:O	4:D:111:ALA:N	2.21	0.51
4:D:120:TRP:HZ3	4:D:154:LEU:HD23	1.74	0.51
4:D:194:VAL:HA	4:D:197:TYR:CD2	2.45	0.51
4:D:334:LYS:O	4:D:337:LYS:HB3	2.11	0.51
4:D:352:ILE:HG12	4:D:359:VAL:HA	1.91	0.51
5:E:170:ILE:HD11	5:E:183:LEU:HG	1.92	0.51
7:H:56:LEU:O	7:H:60:ILE:HG12	2.11	0.51
7:H:111:ASP:HA	7:H:114:ARG:NH1	2.26	0.51
8:O:40:SER:HA	8:O:43:TYR:HB3	1.92	0.51
8:O:554:THR:H	11:R:32:LEU:HB2	0.60	0.51
13:G:92:GLN:HA	13:G:95:LYS:CD	2.37	0.51
13:G:101:ILE:CG2	13:G:116:LEU:HG	2.35	0.51
1:A:135:HIS:CB	1:A:162:LEU:HB3	2.40	0.51
1:A:271:ARG:NH2	1:A:274:ARG:HD3	2.15	0.51
1:A:368:LYS:HA	1:A:371:GLU:OE1	2.10	0.51
1:A:378:LEU:CD1	1:A:406:ARG:HD2	2.41	0.51
1:A:414:PHE:CD1	1:A:420:ALA:HB2	2.46	0.51
2:B:19:GLU:OE2	8:O:651:PHE:CD2	2.53	0.51
2:B:89:MET:HG2	2:B:93:LYS:CE	2.36	0.51
2:B:172:LEU:HD22	2:B:197:ILE:HD13	1.92	0.51
2:B:224:ILE:HG22	2:B:228:ILE:HB	1.91	0.51
2:B:246:LEU:HB2	2:B:279:TYR:HH	1.75	0.51
2:B:418:GLY:HA2	2:B:421:TYR:HD2	1.75	0.51
2:B:422:THR:HA	2:B:425:ASP:HB2	1.93	0.51
2:B:438:VAL:HA	2:B:441:LYS:HG2	1.93	0.51
3:C:15:LEU:C	3:C:18:GLN:HB2	2.32	0.51
3:C:215:ALA:O	3:C:248:ILE:HD13	2.11	0.51
4:D:92:ILE:CG2	4:D:96:VAL:HA	2.40	0.51
4:D:168:ILE:HD13	4:D:190:CYS:HB2	1.93	0.51
4:D:211:LEU:HD23	4:D:214:LYS:CE	2.41	0.51
4:D:253:GLU:HG3	4:D:256:GLN:OE1	2.10	0.51
4:D:398:GLN:O	4:D:401:GLU:HB2	2.10	0.51
5:E:125:LYS:CB	5:E:130:LEU:HD23	2.40	0.51
5:E:187:ARG:HG3	5:E:224:LEU:HD11	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:318:LEU:HD12	6:F:282:GLN:HE21	1.74	0.51
6:F:46:LEU:HD12	6:F:49:LEU:CB	2.41	0.51
6:F:150:LEU:CD2	6:F:167:VAL:HG13	2.41	0.51
6:F:231:LEU:HG	6:F:235:VAL:HG23	1.92	0.51
8:O:81:GLU:N	8:O:84:LEU:HD13	2.26	0.51
8:O:239:VAL:O	8:O:243:LEU:HG	2.10	0.51
8:O:251:ARG:O	8:O:254:LEU:HD23	2.11	0.51
8:O:291:LYS:HG2	8:O:294:MET:HG2	1.92	0.51
8:O:326:ALA:HA	8:O:330:LEU:HG	1.93	0.51
8:O:563:GLU:HG3	11:R:27:TRP:CD1	2.46	0.51
8:O:618:LEU:HD13	8:O:625:HIS:HE1	1.75	0.51
9:P:5:LEU:HD21	9:P:62:PHE:CD1	2.45	0.51
9:P:96:PRO:N	10:Q:52:HIS:CG	2.72	0.51
12:V:113:ARG:HG2	12:V:139:SER:OG	2.09	0.51
12:V:175:TYR:HB3	12:V:189:GLU:OE2	2.11	0.51
1:A:140:GLU:O	1:A:144:GLU:HG3	2.10	0.51
2:B:314:LEU:HD21	2:B:329:ILE:HB	1.92	0.51
2:B:382:VAL:O	2:B:385:VAL:HB	2.10	0.51
3:C:70:SER:HB3	3:C:114:ARG:CD	2.35	0.51
4:D:100:GLU:HB3	4:D:137:LYS:HB2	1.93	0.51
4:D:400:MET:HA	4:D:403:GLN:CB	2.39	0.51
5:E:64:LYS:HB3	5:E:96:PHE:HB3	1.92	0.51
5:E:69:ALA:O	5:E:141:PRO:HB3	2.11	0.51
5:E:159:GLN:CG	5:E:165:PHE:HB3	2.29	0.51
5:E:323:ILE:HD11	7:H:197:LEU:CD2	2.40	0.51
6:F:297:LYS:O	6:F:300:ASN:HB3	2.11	0.51
7:H:41:LEU:CD2	7:H:74:ILE:HG22	2.41	0.51
7:H:90:TYR:OH	7:H:137:VAL:HA	2.11	0.51
8:O:391:LEU:HG	8:O:395:CYS:SG	2.51	0.51
8:O:494:ILE:CG2	8:O:500:VAL:HG11	2.33	0.51
8:O:568:TYR:O	11:R:20:LYS:HB3	2.11	0.51
10:Q:84:THR:CG2	12:V:169:LEU:HD13	2.40	0.51
12:V:86:PRO:HB2	12:V:98:TYR:CB	2.28	0.51
13:G:11:LEU:HD13	13:G:37:ALA:CB	2.41	0.51
13:G:70:PHE:CD1	13:G:99:LEU:CD1	2.94	0.51
1:A:86:GLN:O	1:A:89:ALA:HB3	2.11	0.50
1:A:242:ILE:HG23	1:A:254:VAL:CG1	2.41	0.50
1:A:245:SER:CA	1:A:248:LEU:HD12	2.40	0.50
1:A:269:GLU:HB2	1:A:274:ARG:N	2.25	0.50
1:A:387:ASN:CA	1:A:390:LEU:HD12	2.39	0.50
1:A:442:GLN:O	1:A:446:GLU:N	2.38	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:132:TYR:CE2	2:B:158:LEU:HD11	2.47	0.50
2:B:198:TYR:O	2:B:201:GLU:HB2	2.10	0.50
3:C:224:TYR:OH	3:C:260:TYR:HB2	2.10	0.50
3:C:232:LEU:HD12	3:C:263:LEU:HG	1.93	0.50
4:D:132:LEU:HD12	4:D:148:TYR:HE1	1.76	0.50
4:D:352:ILE:HA	4:D:360:HIS:HB2	1.94	0.50
5:E:170:ILE:CG1	5:E:183:LEU:HA	2.41	0.50
6:F:34:GLY:HA3	6:F:182:LEU:O	2.11	0.50
6:F:131:PRO:HA	6:F:153:LYS:HE3	1.92	0.50
6:F:142:VAL:C	6:F:149:PRO:HG3	2.31	0.50
7:H:148:ILE:CA	7:H:153:TRP:HB2	2.39	0.50
8:O:14:TRP:NE1	8:O:60:GLU:HB3	2.26	0.50
8:O:169:ASN:HB3	8:O:173:GLY:CA	2.41	0.50
8:O:285:ILE:O	8:O:289:GLU:HA	2.11	0.50
8:O:716:SER:C	8:O:718:ILE:H	2.12	0.50
8:O:729:GLN:HG2	11:R:55:GLU:CG	2.42	0.50
13:G:28:THR:HA	13:G:31:ILE:CG2	2.40	0.50
13:G:39:GLY:HA2	13:G:160:ARG:O	2.10	0.50
13:G:40:VAL:O	13:G:40:VAL:HG12	2.11	0.50
13:G:43:PHE:HD2	13:G:67:LEU:HD13	1.76	0.50
1:A:79:ASN:O	1:A:390:LEU:HD21	2.12	0.50
1:A:87:TYR:HA	1:A:91:TYR:CD2	2.40	0.50
1:A:105:ASP:OD1	1:A:115:LEU:HD11	2.10	0.50
1:A:136:ARG:O	1:A:140:GLU:HG3	2.12	0.50
1:A:243:LYS:O	1:A:246:VAL:HB	2.11	0.50
1:A:250:ASN:HB3	1:A:254:VAL:HG21	1.93	0.50
1:A:451:ALA:O	1:A:452:ARG:NH1	2.33	0.50
1:A:459:ILE:HB	1:A:461:TYR:CZ	2.46	0.50
2:B:99:ILE:HG12	2:B:138:ALA:HB1	1.93	0.50
2:B:216:ALA:HA	2:B:219:GLU:CD	2.32	0.50
2:B:314:LEU:HD21	2:B:329:ILE:CB	2.41	0.50
2:B:346:HIS:O	2:B:349:GLU:HB3	2.11	0.50
4:D:5:VAL:HG22	4:D:28:GLN:CG	2.41	0.50
4:D:34:ILE:HG21	4:D:72:HIS:CE1	2.46	0.50
4:D:112:SER:O	4:D:115:GLU:HB3	2.11	0.50
4:D:208:TYR:HA	4:D:225:ALA:HB1	1.94	0.50
5:E:123:ASN:HD22	6:F:107:THR:CG2	2.24	0.50
5:E:201:SER:HA	5:E:221:TYR:CE2	2.47	0.50
7:H:13:PHE:CD1	7:H:46:LEU:HB3	2.47	0.50
8:O:281:GLU:HA	8:O:284:ASN:HB2	1.93	0.50
8:O:415:LEU:O	8:O:418:PHE:HB2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:521:GLN:NE2	8:O:554:THR:C	2.62	0.50
8:O:656:SER:O	8:O:657:MET:C	2.50	0.50
8:O:688:MET:CE	8:O:730:TYR:CB	2.89	0.50
9:P:19:LYS:O	9:P:57:LEU:HD12	2.11	0.50
11:R:35:TRP:O	11:R:36:ASP:HA	2.11	0.50
13:G:27:LEU:O	13:G:27:LEU:HD23	2.11	0.50
13:G:75:TYR:CD2	13:G:120:LEU:HD22	2.47	0.50
1:A:255:LEU:O	1:A:258:VAL:HB	2.11	0.50
1:A:467:GLN:HE22	2:B:422:THR:CB	2.24	0.50
2:B:173:ARG:O	2:B:177:GLN:HG2	2.12	0.50
2:B:273:ARG:CZ	2:B:277:LEU:HB3	2.41	0.50
2:B:330:LEU:HA	2:B:333:ASN:CB	2.33	0.50
2:B:427:TRP:CA	5:E:270:SER:CB	2.81	0.50
3:C:22:THR:HG22	3:C:95:TYR:CA	2.41	0.50
3:C:27:LEU:HD22	3:C:30:LYS:HD2	1.93	0.50
3:C:89:ASN:OD1	3:C:90:GLY:N	2.44	0.50
3:C:387:ASP:OD1	6:F:301:THR:HB	2.12	0.50
4:D:12:LEU:HA	4:D:15:SER:CB	2.41	0.50
4:D:21:ASP:O	4:D:25:LYS:HG3	2.11	0.50
4:D:28:GLN:CG	4:D:32:LYS:HB3	2.41	0.50
4:D:73:LEU:HB2	4:D:74:PRO:HD3	1.93	0.50
4:D:121:ARG:HG3	4:D:125:GLN:NE2	2.26	0.50
4:D:205:ALA:HA	4:D:208:TYR:HD2	1.75	0.50
4:D:319:ILE:H	4:D:359:VAL:HG12	1.75	0.50
4:D:367:LEU:O	4:D:370:TRP:HB3	2.10	0.50
5:E:37:GLN:HA	5:E:40:LEU:CD1	2.38	0.50
5:E:43:LYS:CE	5:E:46:THR:HG21	2.41	0.50
5:E:279:GLN:CG	5:E:295:LYS:CE	2.86	0.50
6:F:153:LYS:HB3	6:F:166:SER:HB2	1.93	0.50
6:F:242:VAL:HG13	6:F:256:ILE:HG21	1.92	0.50
6:F:264:CYS:O	6:F:267:LEU:HB2	2.12	0.50
8:O:295:ALA:O	8:O:299:VAL:HG23	2.12	0.50
8:O:437:ARG:HD2	8:O:518:PRO:O	2.11	0.50
8:O:560:CYS:HB2	8:O:579:THR:CG2	2.32	0.50
8:O:563:GLU:CG	11:R:27:TRP:CA	2.84	0.50
8:O:623:ILE:HD13	8:O:625:HIS:HB3	1.93	0.50
8:O:699:LEU:HD13	8:O:700:ILE:N	2.26	0.50
11:R:67:GLU:HA	11:R:70:VAL:HG12	1.93	0.50
12:V:82:ARG:HB3	12:V:121:ASP:HB3	1.92	0.50
13:G:31:ILE:HD11	13:G:63:TYR:CD1	2.46	0.50
13:G:43:PHE:CB	13:G:47:LEU:HB2	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:14:GLU:C	2:B:18:LEU:HG	2.28	0.50
2:B:34:ASN:HA	2:B:57:VAL:HG22	1.93	0.50
2:B:135:THR:HG22	2:B:139:LEU:CD1	2.42	0.50
2:B:169:GLN:HE21	2:B:173:ARG:CD	2.24	0.50
2:B:287:MET:SD	2:B:289:SER:HB3	2.51	0.50
2:B:390:VAL:HA	2:B:393:ILE:HD11	1.93	0.50
2:B:399:HIS:O	2:B:411:LEU:HA	2.11	0.50
2:B:436:GLN:HA	2:B:439:VAL:HB	1.92	0.50
3:C:21:MET:HB2	3:C:95:TYR:CE1	2.46	0.50
3:C:74:PHE:O	3:C:78:PHE:HB2	2.11	0.50
3:C:78:PHE:CE2	3:C:123:ILE:HG13	2.47	0.50
3:C:216:VAL:HG22	3:C:253:ILE:HG13	1.93	0.50
4:D:96:VAL:HG13	4:D:97:ILE:H	1.77	0.50
4:D:125:GLN:HA	4:D:128:VAL:CG2	2.42	0.50
5:E:57:ILE:HD12	5:E:226:VAL:CG1	2.41	0.50
5:E:64:LYS:HB3	5:E:96:PHE:HB2	1.94	0.50
5:E:147:LEU:HD22	5:E:151:ASP:CB	2.40	0.50
5:E:200:PRO:HG2	5:E:223:ALA:H	1.76	0.50
5:E:320:SER:O	6:F:221:LEU:HD22	2.11	0.50
6:F:30:VAL:O	6:F:136:ILE:HG21	2.11	0.50
6:F:254:HIS:HA	6:F:257:LEU:HB2	1.92	0.50
8:O:42:ILE:CD1	8:O:108:LEU:HD22	2.41	0.50
8:O:42:ILE:CD1	8:O:45:LEU:HD12	2.42	0.50
8:O:379:ARG:HE	8:O:384:VAL:HA	1.77	0.50
8:O:441:LYS:HB3	8:O:445:HIS:HD2	1.76	0.50
8:O:508:GLN:NE2	8:O:559:LEU:HD13	2.26	0.50
8:O:612:LYS:CB	8:O:657:MET:SD	2.98	0.50
8:O:620:VAL:HG21	8:O:653:ILE:CG2	2.41	0.50
9:P:76:GLY:HA3	9:P:88:LEU:CD2	2.38	0.50
13:G:133:ILE:O	13:G:136:VAL:HG22	2.12	0.50
1:A:164:THR:O	1:A:167:VAL:HB	2.11	0.50
1:A:355:PHE:O	1:A:359:GLU:N	2.45	0.50
1:A:388:LEU:HB3	1:A:398:VAL:CG2	2.41	0.50
1:A:416:PRO:HG2	1:A:417:TYR:CE2	2.47	0.50
1:A:487:LYS:HD3	3:C:165:ASP:CB	2.41	0.50
2:B:297:GLN:HE21	11:R:67:GLU:HA	1.75	0.50
3:C:77:LEU:CA	3:C:80:GLN:HB2	2.38	0.50
3:C:125:LYS:CA	3:C:128:ILE:HD12	2.41	0.50
3:C:156:LYS:O	3:C:159:LEU:HB2	2.11	0.50
3:C:396:GLU:HA	3:C:399:VAL:HB	1.92	0.50
4:D:246:LEU:CD1	4:D:267:MET:HE3	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:318:ASN:HA	4:D:359:VAL:O	2.11	0.50
4:D:370:TRP:CE2	4:D:374:ILE:HD11	2.47	0.50
5:E:78:MET:HE1	5:E:112:ALA:HB3	1.94	0.50
5:E:323:ILE:HG12	13:G:188:ILE:CD1	2.21	0.50
5:E:332:ASN:O	13:G:177:TRP:HA	2.11	0.50
6:F:230:MET:O	6:F:234:ARG:HG2	2.10	0.50
7:H:90:TYR:CE2	7:H:137:VAL:HA	2.47	0.50
7:H:133:PHE:HA	7:H:136:PHE:HB2	1.93	0.50
8:O:62:LYS:HA	8:O:142:LEU:CD2	2.40	0.50
8:O:219:TYR:O	8:O:270:MET:HE3	2.11	0.50
8:O:373:THR:HA	8:O:376:VAL:CG2	2.40	0.50
8:O:382:LYS:HE2	8:O:382:LYS:HA	1.94	0.50
8:O:396:ASP:OD1	8:O:438:MET:HB3	2.11	0.50
8:O:402:SER:H	8:O:447:LEU:CD2	2.24	0.50
8:O:541:GLU:OE2	8:O:552:LYS:HB3	2.11	0.50
8:O:615:LYS:HA	8:O:628:GLU:CD	2.32	0.50
8:O:620:VAL:HG13	8:O:645:SER:H	1.76	0.50
9:P:51:LEU:HD21	9:P:60:CYS:HA	1.93	0.50
9:P:52:ASP:N	9:P:55:LYS:HD3	2.26	0.50
9:P:98:GLU:C	10:Q:85:GLU:CB	2.80	0.50
12:V:102:PRO:HD2	12:V:105:THR:HG21	1.92	0.50
13:G:15:PHE:HD1	13:G:30:LEU:HD12	1.76	0.50
1:A:221:TYR:HB3	1:A:241:VAL:HG22	1.93	0.50
1:A:248:LEU:HB3	1:A:250:ASN:OD1	2.11	0.50
1:A:291:LEU:HD21	1:A:393:TYR:CD2	2.47	0.50
2:B:202:ILE:HD11	2:B:218:TYR:OH	2.12	0.50
3:C:329:SER:O	3:C:333:GLU:HB2	2.11	0.50
3:C:374:HIS:HA	3:C:377:ASP:HB2	1.93	0.50
3:C:378:GLN:HG3	3:C:381:LEU:CD1	2.40	0.50
4:D:104:ALA:O	4:D:108:GLN:HG2	2.11	0.50
4:D:202:ILE:H	4:D:202:ILE:HD12	1.77	0.50
4:D:240:GLN:HG3	4:D:241:GLN:HG3	1.93	0.50
4:D:246:LEU:HD21	4:D:267:MET:HE2	1.93	0.50
4:D:374:ILE:HG23	5:E:328:PHE:CE1	2.47	0.50
5:E:272:LYS:HA	5:E:275:GLN:CG	2.42	0.50
5:E:315:ILE:HD13	7:H:204:VAL:HG22	1.93	0.50
5:E:323:ILE:HA	5:E:326:LYS:CG	2.42	0.50
6:F:82:GLU:O	6:F:84:MET:HG3	2.12	0.50
6:F:273:ASP:OD2	6:F:274:LYS:HB2	2.11	0.50
8:O:139:ILE:O	8:O:142:LEU:HB3	2.12	0.50
8:O:480:MET:HB2	8:O:510:TYR:CE1	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:660:ASP:HA	8:O:663:GLN:HB3	1.92	0.50
9:P:94:SER:HB2	10:Q:50:ASP:OD1	2.11	0.50
10:Q:88:LEU:HD11	12:V:179:ASP:OD2	2.11	0.50
12:V:86:PRO:CB	12:V:98:TYR:HB2	2.27	0.50
13:G:23:SER:CB	13:G:55:LEU:HD21	2.41	0.50
1:A:135:HIS:HA	1:A:162:LEU:HB3	1.94	0.50
2:B:151:THR:HA	2:B:154:LYS:HZ1	1.76	0.50
2:B:198:TYR:HE2	2:B:224:ILE:HD11	1.76	0.50
2:B:314:LEU:HD11	2:B:333:ASN:HD21	1.77	0.50
3:C:391:LYS:HG3	6:F:301:THR:HG21	1.92	0.50
4:D:33:ALA:HA	4:D:36:LEU:CD1	2.42	0.50
4:D:150:LYS:O	4:D:154:LEU:HG	2.12	0.50
4:D:261:TYR:HA	4:D:264:LEU:HB3	1.94	0.50
5:E:123:ASN:ND2	6:F:107:THR:HG21	2.27	0.50
6:F:43:LEU:HD12	6:F:85:ASN:HB2	1.94	0.50
6:F:82:GLU:HG3	6:F:189:THR:O	2.12	0.50
6:F:239:LEU:HA	13:G:174:LEU:HD12	1.93	0.50
7:H:17:LEU:N	7:H:43:LEU:HD13	2.26	0.50
7:H:32:ALA:HB3	7:H:37:TYR:CE1	2.45	0.50
8:O:92:GLU:O	8:O:96:LYS:HE2	2.11	0.50
9:P:43:ARG:HH21	9:P:88:LEU:H	1.59	0.50
13:G:171:VAL:HG13	13:G:172:LYS:N	2.27	0.50
1:A:125:THR:CA	1:A:210:ASP:HA	2.29	0.50
1:A:220:CYS:HA	1:A:223:ARG:HH21	1.76	0.50
1:A:268:ALA:HB2	1:A:282:LEU:CD1	2.42	0.50
1:A:339:ARG:CZ	2:B:394:LEU:CD1	2.86	0.50
1:A:354:LEU:O	1:A:357:GLU:HG2	2.11	0.50
1:A:478:MET:HE2	2:B:428:THR:CG2	2.41	0.50
2:B:159:TYR:HD1	2:B:162:ARG:HB3	1.74	0.50
2:B:255:HIS:CE1	11:R:68:CYS:SG	3.01	0.50
2:B:296:SER:HB2	11:R:67:GLU:CD	2.30	0.50
3:C:68:MET:O	3:C:71:VAL:HG22	2.12	0.50
3:C:192:TYR:CG	3:C:200:ARG:HD3	2.46	0.50
4:D:30:LEU:CD1	4:D:34:ILE:HD11	2.41	0.50
4:D:264:LEU:HA	4:D:267:MET:CG	2.42	0.50
5:E:65:MET:CA	5:E:96:PHE:HA	2.41	0.50
5:E:127:VAL:CG1	6:F:90:LEU:HB2	2.41	0.50
6:F:261:TYR:CG	13:G:170:ILE:CD1	2.64	0.50
7:H:121:VAL:HA	7:H:125:TYR:CD2	2.46	0.50
7:H:154:GLN:CB	7:H:163:LEU:HB2	2.32	0.50
8:O:20:THR:HG22	8:O:34:THR:HB	1.91	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:30:VAL:HB	8:O:35:TRP:HE1	1.77	0.50
8:O:62:LYS:HA	8:O:142:LEU:HD11	1.92	0.50
8:O:208:GLU:O	8:O:211:PHE:HB3	2.12	0.50
8:O:333:GLU:OE2	8:O:335:MET:HB3	2.11	0.50
8:O:377:ASN:O	8:O:384:VAL:HG21	2.12	0.50
8:O:569:LEU:HD12	11:R:18:LYS:CA	2.42	0.50
9:P:11:LYS:NZ	10:Q:14:LYS:CE	2.43	0.50
1:A:297:ARG:HH22	12:V:142:VAL:HG11	1.74	0.50
1:A:301:GLN:CD	1:A:304:LYS:HD3	2.32	0.50
1:A:386:ASP:O	1:A:390:LEU:HG	2.12	0.50
1:A:391:ASP:HB3	1:A:394:LEU:CB	2.38	0.50
2:B:55:GLN:O	2:B:58:LEU:HB3	2.12	0.50
2:B:57:VAL:CG1	2:B:68:GLY:HA2	2.40	0.50
2:B:277:LEU:HD12	2:B:278:LYS:N	2.27	0.50
4:D:37:SER:N	4:D:41:GLN:HB2	2.27	0.50
4:D:88:THR:HG22	4:D:92:ILE:CD1	2.34	0.50
4:D:235:LEU:HD23	4:D:300:LEU:CD2	2.41	0.50
4:D:272:ILE:HG23	4:D:274:ARG:NH1	2.27	0.50
4:D:281:PHE:CE2	4:D:285:LEU:HD11	2.47	0.50
5:E:149:GLY:N	5:E:210:LYS:HD2	2.26	0.50
5:E:155:GLN:CG	5:E:188:THR:HG21	2.41	0.50
7:H:114:ARG:HD3	7:H:139:LEU:HD11	1.94	0.50
7:H:122:SER:HA	7:H:164:PRO:CB	2.42	0.50
7:H:200:LEU:O	7:H:203:TYR:HB2	2.12	0.50
8:O:83:VAL:HA	8:O:86:MET:CG	2.42	0.50
8:O:192:GLU:HB3	8:O:198:PHE:O	2.12	0.50
8:O:219:TYR:HD2	8:O:266:CYS:HB2	1.77	0.50
8:O:279:HIS:HB2	8:O:314:GLU:OE2	2.12	0.50
8:O:344:LEU:HD13	8:O:414:ARG:CZ	2.42	0.50
8:O:533:LEU:HD11	11:R:27:TRP:CZ3	2.47	0.50
8:O:587:ALA:HB1	8:O:599:LEU:HD13	1.92	0.50
8:O:696:HIS:NE2	8:O:719:LYS:HG2	2.26	0.50
9:P:13:THR:O	10:Q:16:TYR:N	2.33	0.50
13:G:43:PHE:CD2	13:G:67:LEU:CD1	2.94	0.50
1:A:350:SER:HA	1:A:353:LYS:CB	2.42	0.49
2:B:72:LEU:HD12	2:B:95:LEU:HD23	1.93	0.49
2:B:248:GLU:HG2	2:B:250:GLU:H	1.77	0.49
2:B:255:HIS:CE1	11:R:64:THR:OG1	2.65	0.49
3:C:77:LEU:HD12	3:C:80:GLN:HB2	1.94	0.49
3:C:186:TYR:OH	3:C:226:LYS:NZ	2.45	0.49
5:E:77:VAL:HG21	5:E:98:LEU:H	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:98:LEU:HD13	5:E:100:VAL:CG1	2.40	0.49
5:E:246:TRP:HZ2	6:F:233:SER:H	1.58	0.49
5:E:327:LEU:CD2	13:G:181:CYS:CB	2.89	0.49
6:F:73:ILE:HD12	6:F:119:LEU:HD22	1.93	0.49
7:H:41:LEU:HG	7:H:74:ILE:HG22	1.93	0.49
8:O:62:LYS:NZ	8:O:130:VAL:HB	2.27	0.49
8:O:160:ILE:HA	8:O:163:LEU:HD12	1.93	0.49
8:O:170:ASP:CB	8:O:249:ARG:HE	2.22	0.49
8:O:288:GLN:HG3	8:O:290:LYS:NZ	2.27	0.49
8:O:644:PHE:CG	8:O:650:LYS:HA	2.46	0.49
9:P:14:ILE:HD12	10:Q:17:GLU:OE1	2.05	0.49
9:P:68:ARG:HE	9:P:71:ALA:CB	2.23	0.49
12:V:146:PRO:C	12:V:147:ILE:HG13	2.32	0.49
12:V:192:PRO:HA	12:V:196:LYS:NZ	2.27	0.49
13:G:128:LEU:O	13:G:132:ILE:HG23	2.12	0.49
2:B:173:ARG:HA	2:B:176:HIS:ND1	2.26	0.49
2:B:302:TYR:CE1	11:R:35:TRP:CH2	2.99	0.49
2:B:323:ILE:HG13	2:B:358:VAL:HG21	1.92	0.49
2:B:342:PHE:HB3	2:B:346:HIS:HD2	1.76	0.49
3:C:138:LEU:HD12	3:C:184:TYR:CD2	2.47	0.49
3:C:210:THR:HG22	3:C:245:THR:CA	2.39	0.49
3:C:352:ASN:HB3	3:C:357:MET:H	1.78	0.49
4:D:22:LEU:CD1	4:D:25:LYS:HD2	2.35	0.49
4:D:37:SER:HA	4:D:41:GLN:OE1	2.11	0.49
4:D:85:TYR:CB	4:D:110:LEU:HD13	2.41	0.49
4:D:381:VAL:HB	6:F:231:LEU:CD2	2.43	0.49
5:E:25:ILE:HD13	5:E:232:SER:HB3	1.94	0.49
5:E:33:LYS:CD	5:E:130:LEU:HB3	2.36	0.49
5:E:79:GLY:O	5:E:136:TRP:CA	2.53	0.49
5:E:148:SER:O	5:E:152:VAL:HG23	2.12	0.49
5:E:244:LYS:HE2	6:F:230:MET:N	2.27	0.49
5:E:253:SER:HA	5:E:321:GLN:NE2	2.27	0.49
5:E:272:LYS:HA	5:E:275:GLN:CD	2.33	0.49
5:E:279:GLN:HB2	5:E:299:LYS:CD	2.42	0.49
6:F:138:VAL:HG13	6:F:141:GLN:OE1	2.12	0.49
8:O:36:ASN:HA	8:O:39:PHE:CD2	2.41	0.49
8:O:379:ARG:CG	8:O:384:VAL:HG22	2.35	0.49
8:O:394:TYR:CD2	8:O:398:LEU:HD11	2.47	0.49
8:O:409:ASN:CA	8:O:412:GLU:HB2	2.30	0.49
8:O:540:PHE:CD2	8:O:553:LEU:HD23	2.47	0.49
9:P:30:ILE:HD11	10:Q:5:PHE:HZ	1.75	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Q:60:TYR:CD2	12:V:158:LEU:HB3	2.45	0.49
1:A:326:ALA:HA	1:A:352:PHE:CE1	2.46	0.49
1:A:352:PHE:HA	1:A:355:PHE:CD2	2.31	0.49
1:A:400:THR:O	1:A:403:THR:HB	2.11	0.49
1:A:420:ALA:N	1:A:460:LEU:O	2.45	0.49
2:B:140:LYS:HD2	2:B:140:LYS:O	2.12	0.49
3:C:82:GLN:HA	3:C:85:ILE:CB	2.35	0.49
3:C:89:ASN:CG	3:C:130:LYS:HG3	2.33	0.49
3:C:106:GLN:HA	3:C:109:ASN:ND2	2.26	0.49
3:C:192:TYR:HB3	3:C:197:ASN:HB3	1.94	0.49
3:C:222:GLU:HA	3:C:225:LYS:HB2	1.94	0.49
3:C:231:SER:HB2	3:C:239:GLN:H	1.78	0.49
3:C:279:VAL:HG13	3:C:286:PHE:CZ	2.48	0.49
4:D:19:HIS:CE1	4:D:60:VAL:HB	2.47	0.49
4:D:319:ILE:CD1	4:D:327:LEU:HD22	2.39	0.49
5:E:270:SER:O	5:E:273:LEU:HB2	2.12	0.49
5:E:279:GLN:CD	5:E:298:ASP:HA	2.33	0.49
7:H:148:ILE:HD11	7:H:155:ALA:HB2	1.94	0.49
8:O:32:ARG:O	8:O:33:ALA:C	2.50	0.49
8:O:46:CYS:SG	10:Q:96:TYR:CE2	3.02	0.49
8:O:106:ARG:HH12	10:Q:27:PRO:CB	2.24	0.49
8:O:149:LYS:HG2	8:O:152:VAL:CB	2.42	0.49
8:O:505:ILE:CG1	8:O:533:LEU:HD23	2.40	0.49
8:O:566:MET:CE	8:O:574:VAL:HG23	2.43	0.49
8:O:640:LEU:CD2	11:R:20:LYS:HD2	2.33	0.49
8:O:722:ILE:HG21	8:O:741:TYR:HE2	1.71	0.49
9:P:13:THR:O	10:Q:16:TYR:CA	2.46	0.49
13:G:75:TYR:HD2	13:G:120:LEU:HA	1.77	0.49
13:G:98:HIS:C	13:G:101:ILE:HG12	2.31	0.49
13:G:112:PRO:HG3	13:G:151:LEU:CD2	2.42	0.49
1:A:251:TRP:O	1:A:255:LEU:N	2.45	0.49
1:A:343:GLN:HG3	1:A:347:ILE:CD1	2.42	0.49
2:B:29:ASN:C	2:B:31:ASP:N	2.65	0.49
2:B:365:PRO:HG2	2:B:366:TYR:CE2	2.48	0.49
3:C:124:LEU:O	3:C:128:ILE:HG13	2.11	0.49
3:C:158:ALA:O	3:C:161:TYR:N	2.46	0.49
3:C:198:PHE:CB	3:C:234:LEU:HD22	2.38	0.49
3:C:317:LEU:HD12	3:C:318:SER:H	1.77	0.49
4:D:46:LYS:O	4:D:50:GLU:HG3	2.13	0.49
4:D:238:ALA:HA	4:D:242:ARG:NH1	2.26	0.49
4:D:324:LEU:HD12	4:D:327:LEU:HD23	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:81:MET:HE3	5:E:135:GLY:HA3	1.93	0.49
5:E:81:MET:CE	5:E:136:TRP:H	2.25	0.49
5:E:140:HIS:N	5:E:144:GLY:O	2.33	0.49
5:E:147:LEU:HB3	5:E:151:ASP:HB3	1.95	0.49
5:E:183:LEU:HD22	5:E:226:VAL:CG1	2.35	0.49
5:E:245:TYR:CE1	6:F:192:THR:HG22	2.37	0.49
5:E:279:GLN:CD	5:E:295:LYS:CE	2.76	0.49
6:F:242:VAL:HG22	6:F:256:ILE:HG23	1.93	0.49
7:H:28:PRO:HG3	7:H:31:ILE:H	1.76	0.49
7:H:99:SER:HA	7:H:104:PRO:CD	2.36	0.49
8:O:189:VAL:CG2	8:O:203:TYR:HA	2.42	0.49
8:O:308:LEU:HD13	8:O:363:HIS:CG	2.47	0.49
8:O:458:ILE:CG1	8:O:461:LEU:HD12	2.41	0.49
8:O:521:GLN:CB	8:O:555:TRP:O	2.52	0.49
8:O:565:LYS:CG	11:R:19:LYS:HD3	2.41	0.49
8:O:618:LEU:HD13	8:O:625:HIS:CE1	2.47	0.49
8:O:688:MET:CG	8:O:731:ILE:CD1	2.90	0.49
13:G:15:PHE:CZ	13:G:34:VAL:HA	2.48	0.49
13:G:43:PHE:HD2	13:G:67:LEU:CD1	2.26	0.49
13:G:110:CYS:CB	13:G:151:LEU:HB3	2.37	0.49
13:G:111:ILE:CG2	13:G:115:VAL:HB	2.42	0.49
13:G:132:ILE:HG12	13:G:145:LEU:HD21	1.93	0.49
1:A:205:GLY:HA2	1:A:208:TYR:CD2	2.47	0.49
1:A:374:TYR:CE2	1:A:413:TYR:HB2	2.47	0.49
1:A:493:ALA:O	1:A:497:ARG:HG2	2.13	0.49
2:B:153:THR:HG23	2:B:196:GLU:HG3	1.94	0.49
2:B:232:LEU:HD23	2:B:232:LEU:H	1.77	0.49
2:B:235:GLY:O	2:B:239:GLU:N	2.41	0.49
2:B:346:HIS:O	2:B:350:LEU:HD23	2.13	0.49
3:C:93:ILE:HD12	3:C:127:ALA:HB1	1.94	0.49
3:C:157:PRO:O	3:C:160:PRO:HD2	2.12	0.49
3:C:323:ALA:HA	3:C:328:LEU:H	1.78	0.49
4:D:105:SER:HA	4:D:108:GLN:CG	2.42	0.49
4:D:120:TRP:CE3	4:D:157:GLU:HB2	2.47	0.49
4:D:148:TYR:HD2	4:D:171:ALA:HA	1.76	0.49
4:D:205:ALA:HA	4:D:229:ALA:HA	1.93	0.49
4:D:227:LYS:HE2	4:D:231:HIS:HE1	1.75	0.49
5:E:282:ARG:NH1	5:E:282:ARG:HB2	2.28	0.49
5:E:323:ILE:CG2	13:G:185:LEU:CD2	2.90	0.49
7:H:132:ASP:HB3	7:H:136:PHE:CZ	2.47	0.49
8:O:12:GLU:HG2	8:O:16:LYS:CE	2.36	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:319:ILE:CG2	8:O:371:ALA:HB3	2.42	0.49
8:O:512:LEU:CB	8:O:551:ARG:CA	2.91	0.49
8:O:517:TRP:CE3	8:O:518:PRO:HD2	2.47	0.49
8:O:530:PRO:HD2	8:O:533:LEU:CD1	2.42	0.49
8:O:633:ASP:CB	8:O:635:GLU:HB3	2.39	0.49
11:R:41:ASN:N	11:R:49:ILE:HD13	2.27	0.49
12:V:109:ILE:O	12:V:140:LEU:HD12	2.13	0.49
12:V:118:LEU:HD11	12:V:194:VAL:HG13	1.94	0.49
13:G:99:LEU:CD2	13:G:160:ARG:HD2	2.42	0.49
1:A:271:ARG:HE	1:A:274:ARG:HH11	1.60	0.49
1:A:307:LEU:HD23	1:A:352:PHE:HB2	1.95	0.49
2:B:76:ILE:HD13	2:B:88:MET:HG2	1.95	0.49
2:B:259:PHE:O	2:B:263:LYS:HG3	2.12	0.49
2:B:304:ASN:HA	2:B:309:LEU:HD23	1.95	0.49
3:C:27:LEU:HB3	3:C:30:LYS:CD	2.42	0.49
3:C:39:LEU:CD2	3:C:61:VAL:HG13	2.43	0.49
4:D:200:LYS:HE2	4:D:200:LYS:HA	1.93	0.49
4:D:299:ILE:O	4:D:302:ARG:N	2.44	0.49
5:E:63:LEU:HD22	6:F:47:VAL:HG23	1.94	0.49
5:E:147:LEU:CB	5:E:151:ASP:HB3	2.43	0.49
5:E:327:LEU:HD22	13:G:181:CYS:CA	2.41	0.49
7:H:113:THR:HG22	7:H:137:VAL:HG12	1.95	0.49
7:H:145:VAL:O	7:H:149:LEU:HG	2.13	0.49
8:O:9:ASP:HB3	8:O:48:ALA:HA	1.93	0.49
8:O:50:PRO:HB2	8:O:54:GLY:H	1.77	0.49
8:O:266:CYS:HA	8:O:269:ARG:HB2	1.93	0.49
8:O:434:PHE:O	8:O:437:ARG:HB3	2.13	0.49
9:P:16:THR:OG1	10:Q:19:SER:OG	2.31	0.49
11:R:50:MET:HE2	11:R:70:VAL:CB	2.37	0.49
12:V:84:VAL:HG13	12:V:119:PHE:HB3	1.95	0.49
13:G:146:ASP:CG	13:G:149:ASN:HB2	2.33	0.49
1:A:488:ALA:HB1	3:C:207:GLN:NE2	2.28	0.49
2:B:41:ALA:CB	2:B:53:SER:HB2	2.33	0.49
2:B:66:GLU:HB3	2:B:107:TYR:OH	2.13	0.49
2:B:68:GLY:O	2:B:72:LEU:HG	2.13	0.49
2:B:302:TYR:CE1	11:R:35:TRP:HZ3	2.27	0.49
2:B:368:ARG:CD	4:D:353:ASP:CB	2.77	0.49
3:C:61:VAL:HA	3:C:64:VAL:CG2	2.42	0.49
3:C:169:ILE:HD12	3:C:169:ILE:H	1.78	0.49
3:C:222:GLU:HG2	3:C:225:LYS:CD	2.37	0.49
3:C:260:TYR:CA	3:C:263:LEU:HB3	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:139:TYR:HB3	4:D:143:TYR:HD2	1.76	0.49
4:D:180:ASN:ND2	4:D:183:LEU:HB2	2.27	0.49
4:D:320:THR:HA	4:D:358:ILE:CG1	2.41	0.49
4:D:395:TRP:CD2	6:F:250:VAL:HG23	2.47	0.49
4:D:397:ALA:O	4:D:401:GLU:HG3	2.12	0.49
5:E:137:TYR:OH	6:F:115:VAL:HG11	2.11	0.49
5:E:148:SER:CB	5:E:210:LYS:HG3	2.36	0.49
5:E:276:SER:CB	5:E:300:LEU:HA	2.41	0.49
5:E:332:ASN:ND2	13:G:176:GLU:O	2.45	0.49
8:O:154:PRO:HG2	8:O:155:LEU:HD22	1.95	0.49
8:O:562:GLY:HA2	8:O:582:MET:SD	2.53	0.49
8:O:569:LEU:HD11	11:R:19:LYS:CA	2.43	0.49
8:O:610:LEU:HD11	8:O:638:PHE:HE1	1.78	0.49
8:O:693:VAL:HG12	8:O:699:LEU:CB	2.43	0.49
9:P:5:LEU:HD13	9:P:75:VAL:CG2	2.42	0.49
9:P:27:LEU:HD11	9:P:75:VAL:HG11	1.95	0.49
13:G:74:THR:O	13:G:77:ASP:HB2	2.13	0.49
13:G:76:PRO:HA	13:G:79:ILE:CG1	2.42	0.49
1:A:82:LEU:CB	1:A:390:LEU:HD13	2.43	0.49
1:A:135:HIS:ND1	1:A:162:LEU:O	2.46	0.49
1:A:142:THR:HG21	1:A:160:PRO:CD	2.43	0.49
1:A:410:LEU:HA	1:A:413:TYR:HB3	1.95	0.49
1:A:454:ASP:O	1:A:457:SER:N	2.46	0.49
1:A:463:ARG:NE	1:A:464:ASP:O	2.44	0.49
1:A:477:LEU:O	1:A:481:GLU:HG2	2.13	0.49
1:A:502:VAL:CG1	3:C:215:ALA:HB3	2.37	0.49
2:B:20:TYR:H	8:O:652:LYS:HE3	1.77	0.49
2:B:119:ILE:CG2	2:B:128:LEU:HB2	2.42	0.49
2:B:374:ILE:O	2:B:378:LEU:HG	2.12	0.49
2:B:407:GLN:C	2:B:408:LEU:HD12	2.33	0.49
2:B:415:LYS:C	2:B:416:ARG:HD2	2.33	0.49
3:C:171:LYS:O	3:C:172:GLU:HG2	2.12	0.49
4:D:120:TRP:HB2	4:D:158:ASP:HB2	1.93	0.49
4:D:320:THR:HG22	4:D:358:ILE:CG1	2.40	0.49
4:D:389:SER:N	4:D:390:GLN:N	2.61	0.49
5:E:326:LYS:O	13:G:184:VAL:CB	2.59	0.49
8:O:50:PRO:CA	8:O:53:LEU:HB2	2.43	0.49
8:O:399:LEU:HD22	8:O:454:GLU:HG2	1.95	0.49
8:O:480:MET:O	8:O:483:SER:HB2	2.13	0.49
8:O:575:ALA:N	11:R:19:LYS:CE	2.68	0.49
8:O:599:LEU:O	8:O:603:THR:HG23	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:728:LYS:CB	8:O:730:TYR:CE2	2.96	0.49
11:R:50:MET:O	11:R:52:LEU:HG	2.12	0.49
11:R:81:PHE:HD1	11:R:102:GLU:HA	1.77	0.49
11:R:84:ILE:HD13	11:R:101:TRP:CA	2.43	0.49
12:V:86:PRO:HA	12:V:119:PHE:CD1	2.47	0.49
12:V:152:THR:O	12:V:154:PRO:HD3	2.13	0.49
1:A:250:ASN:HB3	1:A:254:VAL:CG2	2.43	0.49
1:A:273:GLU:HB2	1:A:277:GLN:CB	2.42	0.49
1:A:387:ASN:HA	1:A:390:LEU:CD1	2.38	0.49
1:A:423:HIS:CE1	1:A:458:LYS:HB2	2.47	0.49
1:A:451:ALA:HA	1:A:462:ALA:CA	2.41	0.49
3:C:387:ASP:HB2	6:F:298:THR:HA	1.94	0.49
4:D:34:ILE:HD13	4:D:72:HIS:NE2	2.28	0.49
5:E:80:LEU:O	5:E:137:TYR:HD1	1.96	0.49
5:E:246:TRP:CZ3	6:F:228:ILE:C	2.85	0.49
5:E:274:GLU:CA	5:E:277:GLU:HB3	2.42	0.49
6:F:29:SER:N	6:F:133:PRO:HG3	2.27	0.49
6:F:50:ASN:HA	6:F:53:ASP:HB3	1.95	0.49
6:F:72:LEU:HD21	6:F:152:LEU:HD13	1.95	0.49
6:F:150:LEU:CG	6:F:167:VAL:HG13	2.42	0.49
6:F:264:CYS:HA	6:F:267:LEU:CD1	2.40	0.49
8:O:45:LEU:HD13	8:O:108:LEU:HD11	1.95	0.49
8:O:166:GLU:HA	8:O:169:ASN:HB2	1.94	0.49
8:O:428:LYS:NZ	8:O:466:GLY:HA2	2.28	0.49
8:O:482:VAL:HA	8:O:485:ASP:HB3	1.94	0.49
8:O:508:GLN:NE2	8:O:559:LEU:HA	2.26	0.49
8:O:512:LEU:HA	11:R:32:LEU:HD13	1.94	0.49
9:P:1:MET:HB3	9:P:20:GLU:OE1	2.12	0.49
9:P:19:LYS:N	9:P:26:GLU:HG2	2.27	0.49
12:V:74:VAL:CG2	12:V:138:PRO:HB3	2.42	0.49
1:A:300:LYS:HZ1	1:A:337:PHE:HA	1.77	0.49
2:B:17:ASP:HB3	2:B:64:LYS:CG	2.40	0.49
2:B:177:GLN:HA	2:B:180:GLN:C	2.34	0.49
2:B:414:GLN:HB3	2:B:416:ARG:HD3	1.95	0.49
3:C:60:ALA:O	3:C:64:VAL:HG23	2.12	0.49
3:C:184:TYR:HA	3:C:187:TYR:HD2	1.78	0.49
3:C:350:SER:OG	7:H:126:THR:N	2.46	0.49
4:D:263:ILE:CD1	4:D:273:ILE:HD12	2.43	0.49
4:D:343:ILE:HG13	4:D:348:MET:SD	2.53	0.49
5:E:123:ASN:OD1	5:E:126:GLN:NE2	2.46	0.49
5:E:311:THR:HB	7:H:207:LEU:CD1	2.33	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:36:THR:HA	6:F:169:GLU:OE1	2.13	0.49
6:F:73:ILE:HA	6:F:122:LEU:CB	2.43	0.49
6:F:73:ILE:HA	6:F:122:LEU:HB3	1.94	0.49
6:F:152:LEU:CD1	6:F:165:VAL:HG13	2.43	0.49
6:F:282:GLN:O	6:F:286:VAL:HG23	2.13	0.49
7:H:56:LEU:O	7:H:60:ILE:N	2.46	0.49
8:O:392:ALA:HB3	8:O:434:PHE:HE2	1.78	0.49
8:O:485:ASP:CG	8:O:489:LYS:HZ1	2.16	0.49
8:O:490:PHE:HE1	8:O:539:MET:HG3	1.75	0.49
8:O:544:TYR:HE2	8:O:552:LYS:HA	1.76	0.49
8:O:577:VAL:HG12	8:O:653:ILE:HD11	1.95	0.49
8:O:688:MET:CE	8:O:730:TYR:HB3	2.43	0.49
9:P:9:ARG:HD2	9:P:79:PHE:CE2	2.48	0.49
9:P:15:PHE:CE1	10:Q:58:VAL:HG23	2.45	0.49
9:P:43:ARG:HG3	9:P:45:TYR:CZ	2.48	0.49
12:V:92:ASP:O	12:V:94:GLU:HG3	2.13	0.49
13:G:207:GLN:O	13:G:210:GLU:HB2	2.13	0.49
1:A:421:ASP:HA	1:A:459:ILE:CG2	2.37	0.48
1:A:478:MET:CE	2:B:428:THR:CG2	2.89	0.48
1:A:481:GLU:HB3	1:A:485:ARG:NH1	2.27	0.48
2:B:106:ASN:O	2:B:109:GLU:HB3	2.13	0.48
2:B:119:ILE:HG22	2:B:128:LEU:HB2	1.95	0.48
2:B:385:VAL:HA	2:B:388:LEU:CD2	2.43	0.48
3:C:149:CYS:HB2	3:C:154:CYS:O	2.13	0.48
3:C:308:GLN:HA	3:C:311:THR:CG2	2.43	0.48
3:C:365:GLU:HG3	3:C:372:MET:CE	2.43	0.48
4:D:76:LEU:HB3	4:D:77:PRO:HD2	1.94	0.48
4:D:319:ILE:HG12	4:D:324:LEU:N	2.28	0.48
4:D:384:LEU:HD12	4:D:387:LYS:HG2	1.87	0.48
5:E:43:LYS:HA	5:E:45:TRP:CZ3	2.47	0.48
5:E:63:LEU:CD2	6:F:44:HIS:HB2	2.43	0.48
5:E:272:LYS:O	5:E:275:GLN:CB	2.48	0.48
8:O:101:MET:HB3	8:O:139:ILE:CD1	2.41	0.48
8:O:118:LEU:HB3	8:O:136:LEU:HB2	1.95	0.48
8:O:138:GLU:HB2	8:O:141:GLU:CD	2.33	0.48
8:O:166:GLU:O	8:O:169:ASN:HB2	2.13	0.48
8:O:512:LEU:H	11:R:32:LEU:CD2	2.24	0.48
8:O:553:LEU:HA	11:R:32:LEU:CA	2.40	0.48
8:O:568:TYR:CD2	11:R:20:LYS:O	2.66	0.48
8:O:579:THR:O	8:O:582:MET:HB3	2.13	0.48
8:O:728:LYS:HE3	11:R:54:ILE:HD12	1.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R:43:ALA:HB2	11:R:79:PHE:CE1	2.48	0.48
11:R:52:LEU:HD22	11:R:80:HIS:NE2	2.28	0.48
11:R:67:GLU:O	11:R:70:VAL:HG12	2.13	0.48
12:V:175:TYR:CA	12:V:178:LEU:HG	2.31	0.48
13:G:17:LEU:HD22	13:G:20:LYS:HD2	1.95	0.48
13:G:138:THR:CG2	13:G:140:ILE:H	2.25	0.48
1:A:137:LYS:HA	1:A:140:GLU:OE1	2.13	0.48
1:A:451:ALA:CA	1:A:463:ARG:H	2.22	0.48
2:B:192:THR:HB	8:O:459:ASN:ND2	2.28	0.48
2:B:273:ARG:HH12	2:B:277:LEU:HB3	1.75	0.48
2:B:312:THR:HA	2:B:315:VAL:HG22	1.95	0.48
2:B:374:ILE:O	2:B:377:GLU:HB3	2.12	0.48
3:C:46:LEU:HD23	3:C:58:VAL:N	2.29	0.48
3:C:125:LYS:HD2	3:C:161:TYR:CZ	2.48	0.48
3:C:190:MET:HG2	3:C:226:LYS:CE	2.42	0.48
4:D:169:ASN:CG	11:R:77:HIS:HB2	2.33	0.48
4:D:191:TYR:CE2	4:D:207:ARG:HG3	2.47	0.48
4:D:210:GLU:O	4:D:213:TYR:HB2	2.12	0.48
4:D:253:GLU:HA	4:D:256:GLN:CD	2.33	0.48
4:D:365:GLU:HB2	4:D:369:THR:HG21	1.96	0.48
4:D:375:GLN:NE2	6:F:223:ALA:O	2.46	0.48
4:D:382:ASN:HB3	6:F:234:ARG:NE	2.28	0.48
5:E:77:VAL:CG2	5:E:98:LEU:H	2.26	0.48
5:E:86:ASP:O	5:E:89:THR:HB	2.13	0.48
5:E:117:MET:SD	5:E:121:ILE:HG13	2.53	0.48
5:E:253:SER:HA	5:E:321:GLN:HE22	1.78	0.48
7:H:75:TRP:O	7:H:79:GLN:HG3	2.13	0.48
7:H:90:TYR:CA	7:H:93:ILE:HB	2.41	0.48
8:O:26:MET:CE	8:O:91:TRP:HA	2.42	0.48
8:O:45:LEU:HD13	8:O:108:LEU:CD1	2.44	0.48
8:O:286:ILE:CD1	8:O:315:LEU:HD22	2.43	0.48
8:O:308:LEU:O	8:O:311:MET:N	2.46	0.48
8:O:440:ALA:C	8:O:519:LEU:HD21	2.34	0.48
8:O:537:VAL:CG2	8:O:553:LEU:HD12	2.43	0.48
8:O:568:TYR:HE1	11:R:22:PHE:CD2	2.31	0.48
8:O:575:ALA:HB3	8:O:650:LYS:HE3	1.94	0.48
8:O:615:LYS:HG2	8:O:628:GLU:HB3	1.94	0.48
9:P:8:ARG:O	9:P:77:LEU:HB2	2.13	0.48
9:P:38:PRO:HD2	9:P:41:GLU:OE1	2.13	0.48
9:P:57:LEU:HA	9:P:60:CYS:SG	2.53	0.48
10:Q:67:TYR:CB	12:V:155:VAL:CG2	2.68	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:95:MET:HE1	1:A:249:GLN:HG2	1.94	0.48
1:A:164:THR:CA	1:A:167:VAL:HB	2.42	0.48
1:A:165:ALA:O	1:A:168:GLU:HB3	2.14	0.48
1:A:381:LEU:HD21	1:A:402:TYR:CD1	2.48	0.48
2:B:169:GLN:HA	2:B:172:LEU:HD12	1.96	0.48
2:B:290:GLY:O	2:B:293:PRO:HD3	2.13	0.48
4:D:48:PHE:HZ	4:D:65:LEU:HB3	1.79	0.48
4:D:97:ILE:HG23	4:D:100:GLU:OE1	2.13	0.48
4:D:100:GLU:HB3	4:D:137:LYS:CD	2.42	0.48
4:D:169:ASN:HD22	11:R:75:CYS:CB	2.27	0.48
4:D:170:ARG:HA	4:D:173:LEU:HG	1.95	0.48
5:E:62:LEU:HA	5:E:65:MET:CE	2.43	0.48
5:E:79:GLY:HA3	5:E:137:TYR:CE1	2.48	0.48
5:E:170:ILE:HD13	5:E:181:VAL:HG13	1.95	0.48
5:E:279:GLN:HA	5:E:294:ARG:HE	1.47	0.48
5:E:324:LYS:O	5:E:328:PHE:N	2.42	0.48
6:F:51:ILE:HA	6:F:125:TYR:CE2	2.47	0.48
8:O:153:GLU:HB2	8:O:154:PRO:HD3	1.95	0.48
9:P:100:PRO:HG3	10:Q:88:LEU:HD21	1.94	0.48
10:Q:88:LEU:HD21	12:V:179:ASP:OD2	2.07	0.48
11:R:78:ALA:HA	11:R:100:GLU:H	1.78	0.48
11:R:84:ILE:HG21	11:R:102:GLU:H	1.78	0.48
13:G:75:TYR:N	13:G:76:PRO:HD2	2.28	0.48
1:A:128:VAL:HG12	1:A:132:GLU:HG3	1.95	0.48
1:A:135:HIS:O	1:A:138:LEU:HB3	2.13	0.48
1:A:198:ARG:HG2	1:A:224:ALA:CB	2.31	0.48
1:A:299:TYR:CB	1:A:336:THR:HG21	2.44	0.48
1:A:305:CYS:HA	1:A:308:LEU:HB2	1.94	0.48
2:B:194:LEU:HA	2:B:197:ILE:HB	1.95	0.48
2:B:333:ASN:O	2:B:338:MET:HG2	2.13	0.48
3:C:71:VAL:HA	3:C:115:LYS:NZ	2.28	0.48
3:C:231:SER:HA	3:C:235:LEU:CD1	2.31	0.48
4:D:253:GLU:O	4:D:256:GLN:HB2	2.12	0.48
4:D:304:VAL:HG12	4:D:309:LEU:HG	1.95	0.48
5:E:269:LEU:CD1	5:E:306:ASP:HB3	2.44	0.48
5:E:272:LYS:HD3	5:E:306:ASP:CB	2.43	0.48
5:E:329:ASN:HA	6:F:270:LEU:CB	2.42	0.48
6:F:73:ILE:N	6:F:85:ASN:O	2.47	0.48
6:F:113:LYS:NZ	6:F:120:GLU:HA	2.29	0.48
6:F:189:THR:HG23	6:F:230:MET:CE	2.44	0.48
7:H:102:VAL:HG12	7:H:106:MET:HG3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:87:TYR:HA	8:O:90:TYR:HB2	1.95	0.48
8:O:214:GLU:HA	8:O:217:GLU:HB2	1.95	0.48
8:O:275:LEU:HG	8:O:276:GLN:OE1	2.13	0.48
8:O:500:VAL:HA	8:O:503:LEU:HD21	1.95	0.48
8:O:550:GLY:O	11:R:34:ALA:CB	2.61	0.48
9:P:23:THR:CA	9:P:56:THR:HA	2.25	0.48
9:P:45:TYR:HH	9:P:50:LEU:HD12	1.77	0.48
10:Q:91:LEU:HD23	12:V:184:LEU:HD13	0.54	0.48
13:G:11:LEU:HA	13:G:14:GLN:HB3	1.94	0.48
13:G:31:ILE:CD1	13:G:63:TYR:CG	2.96	0.48
13:G:129:GLU:HA	13:G:132:ILE:HG12	1.95	0.48
1:A:77:VAL:HG12	1:A:106:HIS:O	2.14	0.48
1:A:420:ALA:CB	1:A:460:LEU:HB3	2.29	0.48
1:A:442:GLN:O	1:A:445:LEU:HB2	2.14	0.48
1:A:500:ILE:O	3:C:212:PRO:HB2	2.13	0.48
2:B:163:GLU:HB3	2:B:165:TYR:CE2	2.44	0.48
2:B:315:VAL:HG12	2:B:318:TYR:CE2	2.48	0.48
3:C:39:LEU:HD11	3:C:64:VAL:HG12	1.95	0.48
3:C:228:ILE:HB	3:C:260:TYR:CE2	2.47	0.48
3:C:242:PRO:HB2	3:C:245:THR:HG22	1.95	0.48
3:C:396:GLU:O	3:C:399:VAL:HB	2.13	0.48
4:D:1:MET:H3	4:D:32:LYS:HE2	1.78	0.48
4:D:321:PHE:CE2	4:D:357:GLY:HA2	2.48	0.48
5:E:332:ASN:ND2	13:G:179:ASP:CA	2.62	0.48
8:O:38:ARG:HG3	8:O:104:LEU:CD1	2.35	0.48
8:O:356:THR:O	8:O:359:ASN:N	2.46	0.48
8:O:584:VAL:O	8:O:587:ALA:HB3	2.14	0.48
12:V:87:VAL:HB	12:V:118:LEU:CD2	2.43	0.48
12:V:119:PHE:CE2	12:V:149:ALA:HB1	2.49	0.48
13:G:62:ALA:HA	13:G:65:GLN:HG3	1.95	0.48
1:A:104:ALA:O	1:A:107:CYS:N	2.44	0.48
1:A:112:VAL:O	1:A:116:LYS:HG3	2.14	0.48
1:A:207:HIS:O	1:A:210:ASP:N	2.46	0.48
1:A:291:LEU:HD11	1:A:393:TYR:CG	2.48	0.48
1:A:418:VAL:HB	2:B:401:ARG:HB3	1.91	0.48
2:B:10:CYS:HA	2:B:70:LYS:CD	2.36	0.48
2:B:245:HIS:HB3	2:B:250:GLU:O	2.14	0.48
3:C:85:ILE:HD12	3:C:127:ALA:HB3	1.95	0.48
3:C:128:ILE:O	3:C:132:GLN:HG2	2.13	0.48
3:C:141:ILE:O	3:C:144:ASP:HB2	2.14	0.48
3:C:220:MET:O	3:C:223:SER:OG	2.25	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:30:LEU:HD13	4:D:48:PHE:CE1	2.49	0.48
4:D:110:LEU:HG	4:D:114:TYR:CE2	2.49	0.48
4:D:141:VAL:HG11	4:D:177:GLU:HB3	1.95	0.48
4:D:305:ILE:HG21	4:D:330:ILE:HD13	1.95	0.48
4:D:321:PHE:HB3	4:D:336:GLU:HG3	1.94	0.48
4:D:395:TRP:CZ2	6:F:244:ALA:HB1	2.48	0.48
5:E:77:VAL:HA	5:E:100:VAL:CG2	2.44	0.48
5:E:171:ASP:CB	5:E:174:ARG:HD2	2.44	0.48
6:F:47:VAL:HA	6:F:50:ASN:HD22	1.79	0.48
6:F:300:ASN:O	6:F:304:GLN:HG2	2.14	0.48
7:H:145:VAL:O	7:H:148:ILE:HG13	2.13	0.48
8:O:326:ALA:HB3	8:O:346:VAL:CG2	2.44	0.48
8:O:331:THR:OG1	8:O:339:PHE:HA	2.14	0.48
8:O:339:PHE:O	8:O:343:VAL:HG23	2.13	0.48
8:O:422:PHE:O	8:O:425:ILE:HB	2.14	0.48
8:O:555:TRP:HE1	8:O:557:HIS:CE1	2.31	0.48
9:P:15:PHE:CB	10:Q:18:ILE:HD11	2.12	0.48
11:R:86:ARG:O	11:R:89:LYS:HG2	2.14	0.48
12:V:74:VAL:HG22	12:V:140:LEU:CD2	2.39	0.48
1:A:95:MET:HB2	1:A:319:LEU:HD21	1.95	0.48
2:B:25:ASN:C	2:B:28:PRO:CD	2.70	0.48
2:B:132:TYR:CG	2:B:155:LEU:HD13	2.48	0.48
2:B:251:PHE:HA	2:B:254:ALA:CB	2.28	0.48
2:B:258:PHE:CB	2:B:280:LEU:HD22	2.36	0.48
2:B:291:ILE:O	11:R:72:TRP:CH2	2.66	0.48
3:C:12:VAL:HG21	3:C:54:HIS:NE2	2.29	0.48
3:C:85:ILE:HA	3:C:89:ASN:HB3	1.96	0.48
3:C:93:ILE:HB	3:C:94:ARG:CD	2.42	0.48
3:C:146:CYS:HB2	3:C:187:TYR:CD2	2.48	0.48
3:C:355:ASP:CB	3:C:357:MET:HG2	2.43	0.48
4:D:45:LEU:O	4:D:49:VAL:HG23	2.13	0.48
4:D:149:LEU:CD2	4:D:187:TYR:HA	2.44	0.48
4:D:270:ASP:HB3	4:D:312:ALA:CA	2.44	0.48
5:E:243:ASN:O	6:F:229:LYS:CE	2.48	0.48
5:E:282:ARG:CB	5:E:282:ARG:NH1	2.73	0.48
6:F:146:ILE:HD11	6:F:149:PRO:CB	2.44	0.48
7:H:38:GLY:HA2	7:H:71:LEU:CD1	2.41	0.48
8:O:361:ASP:HB3	8:O:364:PHE:CD2	2.49	0.48
8:O:512:LEU:CG	8:O:552:LYS:C	2.56	0.48
8:O:575:ALA:N	11:R:19:LYS:HE2	2.25	0.48
9:P:10:HIS:N	9:P:77:LEU:HD22	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:V:148:PHE:HB3	12:V:150:ASN:OD1	2.14	0.48
12:V:204:GLU:HA	12:V:207:ALA:HB2	1.95	0.48
13:G:49:LEU:H	13:G:49:LEU:CD1	2.27	0.48
13:G:51:ASN:O	13:G:55:LEU:HG	2.13	0.48
13:G:112:PRO:HG3	13:G:151:LEU:HD22	1.96	0.48
1:A:81:SER:O	1:A:387:ASN:HB2	2.13	0.48
1:A:194:LYS:HD3	1:A:227:TYR:C	2.34	0.48
1:A:208:TYR:HB2	1:A:217:ALA:HB2	1.96	0.48
2:B:21:SER:C	8:O:652:LYS:CE	2.82	0.48
3:C:121:ILE:CA	3:C:145:LEU:HD11	2.43	0.48
3:C:221:LEU:HD23	3:C:253:ILE:HG23	1.95	0.48
4:D:145:LEU:HD12	4:D:171:ALA:HB1	1.96	0.48
5:E:61:ALA:HA	5:E:95:SER:O	2.14	0.48
6:F:59:ARG:HG3	6:F:64:ARG:O	2.14	0.48
7:H:64:ILE:O	7:H:67:ALA:HB3	2.13	0.48
7:H:194:GLU:CD	13:G:184:VAL:O	2.52	0.48
8:O:157:ALA:O	8:O:161:ARG:HD3	2.13	0.48
8:O:227:LEU:HD11	8:O:277:PHE:CE2	2.49	0.48
8:O:428:LYS:O	8:O:431:PHE:HB3	2.14	0.48
8:O:461:LEU:C	8:O:465:CYS:HB3	2.34	0.48
8:O:608:LYS:O	8:O:611:THR:HG22	2.13	0.48
8:O:623:ILE:HG13	8:O:639:SER:O	2.12	0.48
8:O:632:ILE:HD11	8:O:636:SER:HB3	1.95	0.48
8:O:720:LYS:O	11:R:46:ARG:CD	2.62	0.48
9:P:3:VAL:HG23	9:P:18:ALA:HB3	1.96	0.48
9:P:11:LYS:HZ1	10:Q:14:LYS:HE3	1.70	0.48
9:P:43:ARG:HG3	9:P:45:TYR:CD2	2.49	0.48
12:V:118:LEU:HD11	12:V:194:VAL:CG1	2.44	0.48
1:A:100:LEU:HD13	1:A:117:MET:C	2.35	0.48
1:A:338:ASP:OD1	1:A:341:GLU:N	2.36	0.48
1:A:350:SER:HA	1:A:353:LYS:HB2	1.96	0.48
1:A:476:LEU:O	1:A:476:LEU:HD23	2.14	0.48
2:B:258:PHE:CB	2:B:280:LEU:HD13	2.43	0.48
2:B:338:MET:HE1	2:B:347:ILE:CG2	2.42	0.48
3:C:28:ILE:HG12	3:C:31:SER:CB	2.44	0.48
3:C:112:VAL:CG1	3:C:151:LEU:HD11	2.34	0.48
3:C:266:VAL:HA	3:C:269:THR:CG2	2.44	0.48
4:D:95:ARG:O	4:D:98:SER:HB2	2.14	0.48
4:D:175:GLN:HG2	11:R:99:ARG:HH21	1.79	0.48
4:D:266:LYS:HE3	4:D:277:GLN:CD	2.35	0.48
4:D:332:ALA:O	4:D:335:ALA:HB3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:81:MET:HG2	5:E:95:SER:HA	1.95	0.48
5:E:170:ILE:HD13	5:E:181:VAL:CG1	2.44	0.48
5:E:252:SER:N	6:F:221:LEU:CA	2.77	0.48
5:E:332:ASN:O	6:F:267:LEU:HB3	2.14	0.48
6:F:48:ILE:O	6:F:51:ILE:HB	2.13	0.48
6:F:142:VAL:O	6:F:149:PRO:HG3	2.14	0.48
7:H:34:PRO:HA	7:H:37:TYR:CD2	2.48	0.48
7:H:147:GLY:CA	7:H:150:GLU:HG2	2.44	0.48
8:O:223:ALA:N	8:O:270:MET:HE3	2.29	0.48
8:O:462:LYS:NZ	8:O:468:GLU:OE2	2.36	0.48
8:O:480:MET:HA	8:O:483:SER:OG	2.14	0.48
8:O:505:ILE:C	11:R:28:ASN:HA	2.31	0.48
8:O:511:VAL:CG1	8:O:551:ARG:NH1	2.75	0.48
8:O:537:VAL:O	8:O:541:GLU:HG2	2.13	0.48
12:V:111:SER:C	12:V:138:PRO:HG3	2.33	0.48
12:V:135:LEU:CB	12:V:201:LEU:HD22	2.38	0.48
13:G:27:LEU:HD12	13:G:55:LEU:HB3	1.91	0.48
13:G:41:TYR:O	13:G:67:LEU:HD12	2.14	0.48
13:G:160:ARG:CZ	13:G:160:ARG:HB3	2.44	0.48
13:G:204:ARG:O	13:G:208:GLN:HG3	2.14	0.48
1:A:95:MET:HA	1:A:98:GLU:OE1	2.13	0.48
1:A:115:LEU:HD22	1:A:134:ILE:HD12	1.95	0.48
1:A:417:TYR:HE1	2:B:402:ILE:CG2	2.19	0.48
2:B:47:PRO:CA	2:B:50:ALA:HB3	2.33	0.48
2:B:112:ILE:O	2:B:116:LEU:HG	2.14	0.48
2:B:162:ARG:NE	2:B:164:GLU:HB2	2.29	0.48
2:B:198:TYR:CE2	2:B:221:SER:HB3	2.49	0.48
2:B:236:VAL:HG13	2:B:239:GLU:OE1	2.14	0.48
2:B:263:LYS:O	2:B:267:GLU:HG3	2.14	0.48
2:B:282:LEU:HA	2:B:285:MET:CE	2.44	0.48
2:B:359:LEU:HA	2:B:359:LEU:HD13	1.65	0.48
2:B:427:TRP:NE1	5:E:269:LEU:HG	2.29	0.48
3:C:35:LEU:HB2	3:C:39:LEU:CG	2.44	0.48
3:C:192:TYR:CD1	3:C:200:ARG:HD3	2.48	0.48
3:C:374:HIS:HA	3:C:377:ASP:CG	2.34	0.48
4:D:27:ARG:HA	4:D:30:LEU:CB	2.37	0.48
4:D:48:PHE:CZ	4:D:65:LEU:HB3	2.49	0.48
4:D:82:LYS:HE2	4:D:113:ILE:HG22	1.94	0.48
4:D:241:GLN:HB2	4:D:347:ARG:HH21	1.78	0.48
4:D:252:ASP:O	4:D:256:GLN:HG3	2.13	0.48
5:E:69:ALA:HB1	5:E:172:PRO:HG3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:159:GLN:NE2	5:E:188:THR:H	2.11	0.48
5:E:164:PRO:HB2	5:E:187:ARG:HH12	1.79	0.48
5:E:250:LEU:HD21	13:G:185:LEU:CD2	2.11	0.48
5:E:255:LEU:HG	5:E:317:GLY:C	2.34	0.48
6:F:109:GLU:HA	6:F:112:PHE:CE1	2.49	0.48
7:H:97:GLN:C	7:H:103:GLN:HB2	2.34	0.48
8:O:42:ILE:CD1	8:O:108:LEU:HB2	2.44	0.48
8:O:226:LEU:HD12	8:O:239:VAL:HG23	1.95	0.48
8:O:554:THR:HB	11:R:32:LEU:HD12	0.48	0.48
8:O:563:GLU:CG	11:R:27:TRP:CD1	2.96	0.48
9:P:99:LEU:HA	9:P:100:PRO:HD2	1.58	0.48
1:A:82:LEU:HD12	1:A:83:ASP:H	1.79	0.47
1:A:92:SER:O	1:A:319:LEU:HD13	2.13	0.47
1:A:196:SER:O	1:A:199:ARG:HG2	2.14	0.47
1:A:247:TYR:CE1	1:A:319:LEU:HB2	2.49	0.47
1:A:251:TRP:O	1:A:255:LEU:HG	2.13	0.47
1:A:367:PHE:O	1:A:370:TYR:HB2	2.14	0.47
1:A:468:ARG:NH2	6:F:284:ASN:HB2	2.29	0.47
2:B:14:GLU:CG	2:B:18:LEU:HD11	2.40	0.47
2:B:72:LEU:HD22	2:B:94:GLN:OE1	2.14	0.47
2:B:192:THR:HB	2:B:230:HIS:CD2	2.49	0.47
2:B:381:ASP:HB3	2:B:384:ASP:CB	2.43	0.47
3:C:43:ASP:HB2	3:C:62:LEU:HD21	1.96	0.47
3:C:294:LEU:HA	3:C:297:GLN:CD	2.34	0.47
3:C:365:GLU:CD	3:C:372:MET:HG3	2.34	0.47
4:D:28:GLN:HG3	4:D:32:LYS:CB	2.43	0.47
4:D:306:GLU:O	4:D:310:LEU:HB2	2.13	0.47
4:D:402:ALA:O	4:D:406:GLN:HG2	2.13	0.47
4:D:403:GLN:HA	4:D:406:GLN:CB	2.36	0.47
5:E:246:TRP:H	6:F:229:LYS:HD2	1.75	0.47
5:E:250:LEU:HD12	6:F:228:ILE:HG21	1.96	0.47
6:F:86:SER:HG	6:F:125:TYR:HD1	1.61	0.47
6:F:252:PHE:CZ	6:F:257:LEU:HD11	2.48	0.47
8:O:56:ARG:HA	8:O:59:THR:HB	1.96	0.47
8:O:59:THR:HG23	8:O:133:ASN:O	2.15	0.47
8:O:168:LYS:HB3	8:O:171:ARG:NH1	2.29	0.47
8:O:505:ILE:CG2	11:R:27:TRP:CD2	2.95	0.47
8:O:615:LYS:CG	8:O:628:GLU:HB3	2.44	0.47
8:O:720:LYS:O	8:O:723:GLU:HB2	2.14	0.47
9:P:9:ARG:HG3	9:P:77:LEU:HD21	1.96	0.47
9:P:96:PRO:O	10:Q:85:GLU:OE2	2.31	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:G:31:ILE:CG1	13:G:63:TYR:CD1	2.97	0.47
13:G:36:GLU:OE1	13:G:92:GLN:HG2	2.14	0.47
13:G:99:LEU:HD22	13:G:160:ARG:HD2	1.96	0.47
13:G:185:LEU:O	13:G:188:ILE:HG12	2.14	0.47
1:A:115:LEU:HD22	1:A:134:ILE:CD1	2.43	0.47
1:A:186:LYS:HA	1:A:189:LYS:HD2	1.97	0.47
1:A:188:TYR:O	1:A:191:ASN:HB2	2.14	0.47
1:A:201:HIS:CB	1:A:224:ALA:HB2	2.43	0.47
1:A:385:LYS:HA	1:A:402:TYR:OH	2.14	0.47
2:B:28:PRO:O	2:B:31:ASP:CG	2.43	0.47
3:C:74:PHE:CE2	3:C:75:GLU:HG2	2.49	0.47
3:C:79:SER:O	3:C:83:LEU:HG	2.14	0.47
3:C:121:ILE:HG12	3:C:145:LEU:CD1	2.42	0.47
3:C:123:ILE:C	3:C:124:LEU:HD12	2.35	0.47
3:C:159:LEU:HD23	3:C:162:LEU:HD12	1.96	0.47
3:C:202:LEU:HD13	3:C:230:VAL:HB	1.94	0.47
3:C:216:VAL:CG2	3:C:252:PHE:HB3	2.44	0.47
3:C:319:LEU:O	3:C:328:LEU:HD12	2.15	0.47
3:C:328:LEU:HB3	3:C:334:ALA:CB	2.31	0.47
4:D:100:GLU:OE1	4:D:137:LYS:HB2	2.13	0.47
4:D:182:GLN:O	4:D:185:ILE:HB	2.14	0.47
4:D:227:LYS:HG2	4:D:231:HIS:CE1	2.49	0.47
5:E:78:MET:HE1	5:E:109:ALA:O	2.14	0.47
5:E:127:VAL:HG12	6:F:90:LEU:HB2	1.96	0.47
5:E:298:ASP:CA	5:E:299:LYS:N	2.76	0.47
6:F:262:ALA:HB2	13:G:157:CYS:SG	2.52	0.47
7:H:115:ARG:O	7:H:118:PHE:HB3	2.14	0.47
7:H:140:PRO:O	7:H:144:ALA:N	2.47	0.47
8:O:148:ARG:HG3	8:O:149:LYS:H	1.78	0.47
8:O:168:LYS:HB3	8:O:171:ARG:NH2	2.29	0.47
8:O:486:LEU:HD23	8:O:489:LYS:CD	2.32	0.47
10:Q:90:LEU:CD2	12:V:162:CYS:SG	3.03	0.47
12:V:85:LEU:HB3	12:V:120:ARG:HB2	1.95	0.47
12:V:116:LEU:O	12:V:118:LEU:N	2.46	0.47
13:G:88:LEU:HB3	13:G:92:GLN:HB2	1.94	0.47
13:G:129:GLU:C	13:G:132:ILE:HG13	2.33	0.47
13:G:133:ILE:HG13	13:G:134:GLU:N	2.28	0.47
1:A:198:ARG:HE	1:A:233:HIS:CD2	2.32	0.47
1:A:242:ILE:HG23	1:A:254:VAL:HG12	1.96	0.47
1:A:311:PHE:HB3	1:A:354:LEU:CD1	2.40	0.47
1:A:353:LYS:HA	1:A:356:LEU:CB	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:14:GLU:CA	2:B:18:LEU:CG	2.92	0.47
2:B:127:LEU:O	2:B:130:GLU:HB2	2.14	0.47
2:B:260:GLU:CD	11:R:66:GLU:HG2	2.33	0.47
2:B:393:ILE:HG22	2:B:398:ILE:CG1	2.44	0.47
3:C:15:LEU:HD13	3:C:24:LEU:HB2	1.95	0.47
3:C:75:GLU:HA	3:C:78:PHE:HB3	1.96	0.47
3:C:78:PHE:CE2	3:C:123:ILE:HG21	2.49	0.47
3:C:140:SER:OG	3:C:141:ILE:HG13	2.15	0.47
4:D:153:ARG:NH2	4:D:186:HIS:HB3	2.29	0.47
4:D:309:LEU:HB3	4:D:313:SER:OG	2.14	0.47
4:D:403:GLN:HB2	6:F:237:LEU:CD2	2.44	0.47
5:E:262:THR:HA	5:E:265:GLN:CB	2.40	0.47
5:E:323:ILE:CG2	13:G:185:LEU:HD23	2.43	0.47
7:H:94:ASN:HA	7:H:97:GLN:NE2	2.27	0.47
7:H:102:VAL:C	7:H:106:MET:HG2	2.34	0.47
7:H:103:GLN:NE2	7:H:107:GLU:HG3	2.29	0.47
8:O:254:LEU:HD12	8:O:254:LEU:O	2.15	0.47
8:O:399:LEU:C	8:O:449:MET:HB2	2.35	0.47
8:O:487:ASN:O	8:O:491:ASN:ND2	2.47	0.47
8:O:681:GLN:HE22	8:O:728:LYS:HZ2	1.56	0.47
9:P:100:PRO:CG	10:Q:84:THR:O	2.62	0.47
13:G:63:TYR:HA	13:G:86:PRO:HG2	1.95	0.47
13:G:113:TYR:HB3	13:G:128:LEU:HD11	1.95	0.47
1:A:215:SER:HB2	1:A:219:LYS:HZ2	1.79	0.47
1:A:301:GLN:OE1	1:A:304:LYS:HD3	2.14	0.47
1:A:418:VAL:CG2	2:B:401:ARG:NH2	2.74	0.47
2:B:156:GLY:O	2:B:160:LEU:N	2.47	0.47
2:B:192:THR:O	2:B:230:HIS:HB3	2.14	0.47
2:B:303:LYS:CD	2:B:312:THR:HG21	2.44	0.47
2:B:315:VAL:HA	2:B:318:TYR:CG	2.48	0.47
3:C:156:LYS:HA	3:C:159:LEU:CG	2.45	0.47
3:C:202:LEU:HD12	3:C:227:TYR:CD1	2.49	0.47
3:C:334:ALA:HA	3:C:337:TYR:HB2	1.97	0.47
4:D:92:ILE:HG22	4:D:96:VAL:HB	1.95	0.47
4:D:173:LEU:HD23	11:R:77:HIS:CE1	2.49	0.47
4:D:241:GLN:CD	11:R:92:GLN:HG3	2.35	0.47
5:E:35:GLN:NE2	5:E:39:ILE:HD12	2.29	0.47
5:E:44:PRO:HB2	5:E:51:TYR:CG	2.49	0.47
5:E:120:TYR:CE1	6:F:108:LYS:HE3	2.49	0.47
5:E:144:GLY:N	5:E:171:ASP:OD1	2.46	0.47
5:E:155:GLN:CD	5:E:167:ALA:HB2	2.35	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:H:57:TRP:HD1	7:H:58:LYS:HZ2	1.62	0.47
7:H:195:GLN:O	7:H:198:ALA:HB3	2.13	0.47
8:O:12:GLU:CG	8:O:16:LYS:HE3	2.38	0.47
8:O:326:ALA:O	8:O:342:SER:HB3	2.13	0.47
8:O:394:TYR:HD2	8:O:398:LEU:HD11	1.79	0.47
8:O:527:PHE:CE2	11:R:27:TRP:CZ2	3.03	0.47
9:P:93:PHE:CG	10:Q:55:GLU:CB	2.87	0.47
12:V:76:PHE:HA	12:V:149:ALA:CB	2.44	0.47
12:V:115:HIS:O	12:V:135:LEU:HD11	2.15	0.47
12:V:166:VAL:HG21	12:V:188:LEU:HB3	1.96	0.47
13:G:124:ASN:HD21	13:G:126:ARG:HG3	1.78	0.47
13:G:140:ILE:HG23	13:G:141:ILE:N	2.29	0.47
1:A:164:THR:HA	1:A:167:VAL:CG2	2.44	0.47
1:A:426:ALA:HB2	1:A:433:VAL:HG23	1.95	0.47
1:A:434:ALA:O	1:A:437:GLU:HB3	2.13	0.47
1:A:454:ASP:OD1	1:A:456:HIS:HB3	2.15	0.47
2:B:78:ILE:O	2:B:82:LEU:N	2.48	0.47
2:B:94:GLN:HA	2:B:97:THR:HG23	1.96	0.47
2:B:147:LEU:HD12	2:B:148:TRP:N	2.30	0.47
2:B:170:LYS:CA	2:B:173:ARG:HH21	2.27	0.47
2:B:317:ALA:CA	2:B:320:ASN:HB2	2.36	0.47
2:B:366:TYR:OH	4:D:340:SER:OG	2.27	0.47
3:C:68:MET:HB3	3:C:71:VAL:HG11	1.97	0.47
3:C:119:ARG:NH2	7:H:28:PRO:HG2	2.28	0.47
3:C:178:ALA:O	3:C:182:LEU:HG	2.14	0.47
3:C:222:GLU:HA	3:C:225:LYS:CD	2.45	0.47
3:C:281:LYS:HE2	3:C:282:HIS:CE1	2.49	0.47
3:C:306:ASN:HB3	3:C:326:VAL:HG22	1.96	0.47
3:C:340:HIS:HA	3:C:343:GLU:OE1	2.14	0.47
3:C:389:ARG:NE	3:C:389:ARG:HA	2.30	0.47
4:D:199:ARG:N	4:D:199:ARG:HD2	2.30	0.47
4:D:233:THR:HG22	4:D:246:LEU:CD2	2.44	0.47
4:D:245:MET:O	4:D:249:LEU:HG	2.15	0.47
4:D:263:ILE:CA	4:D:266:LYS:HE2	2.37	0.47
4:D:384:LEU:HD11	6:F:259:GLU:HB3	1.97	0.47
5:E:240:LEU:HA	5:E:243:ASN:ND2	2.27	0.47
5:E:312:ILE:HG13	7:H:207:LEU:HD12	1.95	0.47
6:F:55:TRP:CD1	6:F:127:THR:HG21	2.49	0.47
6:F:81:ILE:HD11	6:F:169:GLU:OE1	2.14	0.47
8:O:6:ARG:HB2	8:O:49:TYR:CB	2.43	0.47
8:O:13:THR:HB	8:O:45:LEU:HG	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:51:GLU:CD	12:V:182:ARG:HG3	2.34	0.47
9:P:70:GLN:HG2	10:Q:63:TYR:CD1	2.50	0.47
1:A:214:LEU:HG	1:A:215:SER:N	2.29	0.47
1:A:311:PHE:CD2	1:A:354:LEU:HD13	2.50	0.47
1:A:320:LEU:HD21	1:A:325:VAL:CG2	2.45	0.47
2:B:5:GLU:HB3	2:B:9:MET:N	2.29	0.47
2:B:265:TYR:CD2	2:B:273:ARG:HD2	2.50	0.47
2:B:357:GLN:O	2:B:361:LYS:HD2	2.13	0.47
3:C:10:ASN:O	3:C:14:GLN:HG3	2.14	0.47
4:D:5:VAL:CG2	4:D:28:GLN:HG2	2.44	0.47
4:D:150:LYS:O	4:D:153:ARG:HG2	2.14	0.47
4:D:168:ILE:O	4:D:171:ALA:HB3	2.15	0.47
4:D:286:MET:O	4:D:289:GLN:N	2.47	0.47
4:D:306:GLU:HA	4:D:328:LEU:CD2	2.44	0.47
4:D:356:ASP:HB2	4:D:360:HIS:NE2	2.30	0.47
5:E:31:TYR:CE2	5:E:131:GLU:HG3	2.49	0.47
5:E:59:ALA:HB3	6:F:46:LEU:CB	2.38	0.47
5:E:137:TYR:HH	6:F:115:VAL:HG11	1.78	0.47
6:F:67:GLN:CG	6:F:98:ILE:HD11	2.43	0.47
6:F:143:CYS:CA	6:F:149:PRO:HG3	2.40	0.47
6:F:191:ALA:HB3	6:F:196:GLU:OE2	2.15	0.47
8:O:118:LEU:HD12	8:O:122:ASP:HA	1.96	0.47
8:O:118:LEU:HB2	8:O:125:TYR:HB2	1.97	0.47
8:O:226:LEU:HD12	8:O:239:VAL:CG2	2.45	0.47
8:O:282:CYS:HB2	8:O:311:MET:CE	2.45	0.47
8:O:429:ASP:HA	8:O:432:GLN:CG	2.45	0.47
8:O:632:ILE:HB	8:O:638:PHE:CZ	2.49	0.47
8:O:720:LYS:O	8:O:724:VAL:HG23	2.14	0.47
9:P:2:ASP:HA	9:P:18:ALA:O	2.15	0.47
1:A:224:ALA:HA	1:A:227:TYR:CE2	2.49	0.47
1:A:303:ALA:HA	1:A:306:LEU:HB2	1.97	0.47
1:A:406:ARG:HH21	1:A:436:LEU:CD1	2.28	0.47
2:B:25:ASN:HD21	8:O:646:SER:HB3	1.79	0.47
2:B:28:PRO:O	8:O:648:ARG:NH2	2.35	0.47
2:B:51:LEU:O	2:B:55:GLN:HB2	2.15	0.47
2:B:169:GLN:HA	2:B:172:LEU:HG	1.95	0.47
3:C:220:MET:HE1	3:C:253:ILE:HD12	1.96	0.47
3:C:306:ASN:O	3:C:310:LEU:HG	2.14	0.47
3:C:319:LEU:HD22	3:C:328:LEU:HD13	1.97	0.47
3:C:344:ASP:HB2	3:C:346:GLU:OE2	2.15	0.47
4:D:298:SER:O	4:D:301:ASP:HB2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:320:THR:HA	4:D:358:ILE:CA	2.41	0.47
4:D:370:TRP:HD1	6:F:270:LEU:HG	1.79	0.47
5:E:65:MET:HA	5:E:96:PHE:HA	1.97	0.47
5:E:123:ASN:CB	6:F:111:GLN:HE22	2.23	0.47
5:E:144:GLY:HA2	5:E:171:ASP:CA	2.38	0.47
5:E:147:LEU:CD1	5:E:155:GLN:HB2	2.45	0.47
5:E:161:PHE:HB3	5:E:162:GLN:HG3	1.94	0.47
5:E:164:PRO:CB	5:E:187:ARG:HH12	2.27	0.47
5:E:272:LYS:HD3	5:E:306:ASP:CG	2.35	0.47
5:E:274:GLU:O	5:E:277:GLU:HB3	2.15	0.47
5:E:318:LEU:HB2	6:F:286:VAL:CG1	2.31	0.47
5:E:323:ILE:HG23	13:G:185:LEU:HD23	1.96	0.47
5:E:326:LYS:HD3	13:G:184:VAL:HG11	1.91	0.47
6:F:31:MET:HG3	6:F:32:ALA:H	1.78	0.47
6:F:100:ILE:HB	6:F:141:GLN:OE1	2.15	0.47
6:F:276:LYS:HA	6:F:279:PHE:HB3	1.97	0.47
7:H:121:VAL:HA	7:H:125:TYR:HD2	1.80	0.47
8:O:24:VAL:HG22	8:O:97:GLY:HA2	1.97	0.47
8:O:34:THR:HA	8:O:37:ASP:HB2	1.96	0.47
8:O:87:TYR:OH	8:O:150:LEU:HD22	2.14	0.47
8:O:188:PHE:CB	8:O:206:ILE:HD13	2.34	0.47
8:O:189:VAL:HG22	8:O:206:ILE:HD12	1.97	0.47
8:O:193:GLN:O	8:O:195:LYS:N	2.47	0.47
8:O:212:LEU:HD22	8:O:262:VAL:HB	1.95	0.47
8:O:419:ILE:O	8:O:423:LYS:HG3	2.15	0.47
8:O:462:LYS:HD2	8:O:467:TYR:O	2.15	0.47
8:O:462:LYS:HZ3	8:O:467:TYR:C	2.18	0.47
8:O:482:VAL:HG13	8:O:485:ASP:HB3	1.97	0.47
8:O:508:GLN:CG	8:O:559:LEU:CG	2.90	0.47
8:O:596:TYR:HB3	8:O:634:ALA:HA	1.97	0.47
8:O:696:HIS:HB3	8:O:739:ASP:HA	1.93	0.47
11:R:78:ALA:HA	11:R:100:GLU:CB	2.41	0.47
12:V:60:ARG:HH11	12:V:65:SER:H	1.62	0.47
12:V:181:VAL:HG23	12:V:184:LEU:HD12	1.97	0.47
13:G:23:SER:HA	13:G:55:LEU:HD11	1.96	0.47
1:A:326:ALA:HB1	1:A:359:GLU:CG	2.45	0.47
1:A:378:LEU:HD21	1:A:405:ILE:HG22	1.97	0.47
1:A:385:LYS:HE3	1:A:402:TYR:HE2	1.80	0.47
1:A:472:PHE:CD1	6:F:288:LEU:HD22	2.49	0.47
2:B:130:GLU:O	2:B:134:THR:HG23	2.14	0.47
2:B:290:GLY:C	2:B:293:PRO:HD3	2.35	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:393:ILE:N	2:B:398:ILE:HD13	2.30	0.47
3:C:5:LEU:CD1	3:C:35:LEU:HG	2.44	0.47
3:C:97:THR:O	3:C:175:ALA:HB2	2.15	0.47
3:C:179:LYS:CG	3:C:182:LEU:HD12	2.42	0.47
3:C:196:LYS:HG2	3:C:198:PHE:CZ	2.50	0.47
3:C:283:SER:HA	3:C:286:PHE:CD2	2.50	0.47
4:D:186:HIS:O	4:D:189:VAL:HB	2.15	0.47
5:E:35:GLN:HE22	5:E:86:ASP:HA	1.79	0.47
5:E:49:HIS:HB2	5:E:193:TYR:CE2	2.49	0.47
5:E:80:LEU:HA	5:E:135:GLY:O	2.15	0.47
5:E:102:GLY:HA3	5:E:106:ARG:HE	1.79	0.47
5:E:104:GLU:O	5:E:148:SER:OG	2.23	0.47
5:E:174:ARG:O	5:E:178:ALA:HB2	2.13	0.47
5:E:315:ILE:HD13	7:H:204:VAL:HG23	1.95	0.47
6:F:43:LEU:CB	6:F:84:MET:HE2	2.39	0.47
6:F:59:ARG:HA	6:F:64:ARG:O	2.15	0.47
6:F:267:LEU:CD1	13:G:177:TRP:CB	2.84	0.47
8:O:71:HIS:HA	8:O:74:LYS:HD2	1.97	0.47
8:O:266:CYS:O	8:O:269:ARG:HB2	2.15	0.47
8:O:731:ILE:HA	8:O:744:VAL:H	1.80	0.47
9:P:1:MET:N	9:P:21:SER:H	2.12	0.47
9:P:9:ARG:N	9:P:12:THR:HB	2.26	0.47
11:R:35:TRP:HA	11:R:36:ASP:OD1	2.14	0.47
11:R:38:VAL:HG12	11:R:40:ASP:H	1.79	0.47
12:V:73:GLN:N	12:V:140:LEU:HB2	1.88	0.47
13:G:36:GLU:O	13:G:38:PRO:HD3	2.15	0.47
13:G:104:LEU:O	13:G:111:ILE:HD11	2.14	0.47
1:A:385:LYS:HG3	1:A:402:TYR:OH	2.15	0.47
1:A:501:HIS:HA	3:C:212:PRO:O	2.14	0.47
2:B:20:TYR:N	8:O:652:LYS:HG2	2.28	0.47
2:B:260:GLU:CD	11:R:66:GLU:OE1	2.48	0.47
2:B:428:THR:CA	2:B:431:LEU:HD12	2.44	0.47
3:C:132:GLN:HE22	3:C:161:TYR:HE1	1.62	0.47
3:C:135:THR:HG1	3:C:167:MET:H	1.56	0.47
3:C:230:VAL:HG13	3:C:234:LEU:CD2	2.45	0.47
3:C:342:ILE:HG21	7:H:124:ALA:CB	2.45	0.47
4:D:188:LYS:HA	4:D:191:TYR:HB3	1.97	0.47
4:D:195:LEU:CB	4:D:200:LYS:HB2	2.42	0.47
4:D:376:SER:O	4:D:380:GLN:HG3	2.15	0.47
5:E:56:LYS:H	5:E:89:THR:CG2	2.27	0.47
5:E:123:ASN:HB3	6:F:104:TYR:HE1	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:57:ARG:O	6:F:61:GLN:HG3	2.15	0.47
6:F:103:GLU:HA	6:F:106:TYR:CD2	2.42	0.47
6:F:130:PRO:C	6:F:153:LYS:HE3	2.36	0.47
8:O:87:TYR:HD1	8:O:90:TYR:HD2	1.63	0.47
8:O:141:GLU:HG2	8:O:194:TYR:CD2	2.50	0.47
8:O:219:TYR:CD2	8:O:266:CYS:HB2	2.50	0.47
8:O:557:HIS:O	8:O:560:CYS:N	2.24	0.47
8:O:614:ILE:HD11	8:O:638:PHE:CE1	2.50	0.47
8:O:700:ILE:CG2	8:O:718:ILE:CD1	2.93	0.47
8:O:733:ARG:HD2	8:O:741:TYR:CE1	2.50	0.47
9:P:30:ILE:N	10:Q:5:PHE:HD2	2.10	0.47
9:P:39:PRO:HB2	9:P:53:ASP:OD1	2.15	0.47
11:R:43:ALA:CB	11:R:96:LEU:HD12	2.44	0.47
13:G:28:THR:HA	13:G:31:ILE:HG21	1.96	0.47
13:G:96:LEU:HD23	13:G:96:LEU:O	2.15	0.47
13:G:113:TYR:CE2	13:G:150:GLN:CA	2.94	0.47
13:G:140:ILE:HA	13:G:158:ILE:HG12	1.95	0.47
2:B:93:LYS:O	2:B:97:THR:HG23	2.14	0.47
2:B:228:ILE:HG23	2:B:229:PRO:O	2.15	0.47
2:B:260:GLU:O	2:B:263:LYS:HB2	2.14	0.47
2:B:389:LEU:O	2:B:393:ILE:HG23	2.14	0.47
2:B:414:GLN:HA	2:B:416:ARG:NE	2.30	0.47
3:C:61:VAL:O	3:C:64:VAL:HB	2.15	0.47
3:C:138:LEU:HD22	3:C:176:TYR:HE1	1.80	0.47
3:C:156:LYS:HG3	3:C:159:LEU:HD12	1.97	0.47
3:C:299:LEU:CD1	3:C:302:LEU:HD23	2.45	0.47
3:C:397:ILE:HG21	6:F:308:LYS:HB3	1.95	0.47
4:D:109:HIS:O	4:D:113:ILE:N	2.40	0.47
4:D:133:GLU:OE1	4:D:138:GLN:HB3	2.14	0.47
4:D:315:LEU:CA	13:G:134:GLU:OE1	2.55	0.47
5:E:31:TYR:HE1	5:E:84:LYS:HB3	1.78	0.47
5:E:84:LYS:HE2	5:E:91:ILE:HG21	1.97	0.47
5:E:331:ILE:HG21	13:G:177:TRP:O	2.15	0.47
7:H:156:ASP:OD2	7:H:161:MET:HB2	2.14	0.47
8:O:16:LYS:HD2	8:O:41:ASP:N	2.30	0.47
8:O:73:HIS:O	8:O:76:VAL:HG22	2.14	0.47
8:O:81:GLU:CA	8:O:84:LEU:HD13	2.43	0.47
8:O:326:ALA:HA	8:O:330:LEU:CG	2.45	0.47
8:O:610:LEU:HG	8:O:631:ASP:O	2.14	0.47
9:P:11:LYS:CE	10:Q:14:LYS:CG	2.84	0.47
13:G:150:GLN:O	13:G:151:LEU:HD23	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:300:LYS:NZ	1:A:337:PHE:HA	2.30	0.46
1:A:363:ARG:HG2	1:A:367:PHE:CE2	2.50	0.46
1:A:496:LEU:O	1:A:499:GLN:NE2	2.47	0.46
2:B:76:ILE:CD1	2:B:91:ARG:HB2	2.46	0.46
2:B:215:LYS:O	2:B:219:GLU:HG3	2.16	0.46
2:B:358:VAL:HA	2:B:361:LYS:CD	2.46	0.46
2:B:420:ARG:CZ	5:E:260:ASP:OD1	2.63	0.46
3:C:43:ASP:CB	3:C:62:LEU:HD21	2.45	0.46
3:C:80:GLN:HA	3:C:83:LEU:CG	2.45	0.46
3:C:189:GLY:HA3	3:C:205:TYR:OH	2.15	0.46
3:C:397:ILE:HD13	6:F:309:PHE:CA	2.44	0.46
4:D:27:ARG:HA	4:D:30:LEU:CD2	2.43	0.46
5:E:209:ASN:OD1	5:E:210:LYS:N	2.48	0.46
6:F:83:VAL:HG12	6:F:152:LEU:HD12	1.97	0.46
7:H:13:PHE:CZ	7:H:108:ALA:HB1	2.50	0.46
7:H:15:LYS:O	7:H:19:GLN:HG3	2.14	0.46
7:H:20:CYS:HA	7:H:23:GLN:OE1	2.15	0.46
7:H:117:ALA:HA	7:H:120:LEU:CB	2.45	0.46
8:O:182:HIS:CB	8:O:253:TYR:HA	2.41	0.46
8:O:268:GLN:HA	8:O:271:VAL:HG22	1.95	0.46
8:O:622:MET:CE	8:O:653:ILE:HD13	2.44	0.46
11:R:42:CYS:HB2	11:R:83:CYS:SG	2.56	0.46
11:R:53:CYS:H	11:R:80:HIS:HE1	1.61	0.46
11:R:84:ILE:HD13	11:R:101:TRP:HA	1.96	0.46
12:V:140:LEU:HB3	12:V:144:GLY:HA2	1.97	0.46
13:G:50:ALA:CA	13:G:53:GLN:HG2	2.45	0.46
1:A:282:LEU:HD23	1:A:285:LEU:CD1	2.35	0.46
2:B:40:LYS:HD2	2:B:53:SER:OG	2.15	0.46
2:B:110:LYS:HA	2:B:113:ASN:ND2	2.25	0.46
2:B:111:SER:O	2:B:115:ILE:HG13	2.15	0.46
2:B:214:LEU:HD23	2:B:217:LEU:CD1	2.44	0.46
2:B:286:LEU:HD21	2:B:350:LEU:CD2	2.45	0.46
2:B:382:VAL:HA	2:B:385:VAL:CB	2.45	0.46
2:B:427:TRP:HE1	5:E:273:LEU:HG	1.77	0.46
3:C:44:THR:HG22	3:C:45:VAL:HG23	1.96	0.46
3:C:71:VAL:HB	3:C:72:PRO:CD	2.45	0.46
3:C:84:PHE:CE1	3:C:89:ASN:HA	2.51	0.46
3:C:260:TYR:CD1	3:C:263:LEU:HD22	2.51	0.46
3:C:340:HIS:O	3:C:344:ASP:N	2.32	0.46
4:D:155:TYR:HB3	4:D:164:ALA:HB2	1.97	0.46
4:D:304:VAL:O	4:D:309:LEU:HG	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:390:GLN:N	4:D:393:PRO:HD3	2.30	0.46
5:E:142:GLY:N	5:E:172:PRO:HG2	2.27	0.46
5:E:240:LEU:HD23	5:E:243:ASN:ND2	2.26	0.46
5:E:329:ASN:HA	6:F:270:LEU:HB2	1.96	0.46
6:F:121:PHE:CZ	6:F:142:VAL:HG22	2.50	0.46
7:H:103:GLN:HA	7:H:106:MET:CB	2.45	0.46
7:H:147:GLY:HA2	7:H:150:GLU:CG	2.42	0.46
8:O:298:TYR:HD1	8:O:364:PHE:HE2	1.63	0.46
8:O:337:THR:HA	8:O:394:TYR:HE1	1.77	0.46
8:O:540:PHE:HD2	8:O:553:LEU:HB2	1.80	0.46
8:O:696:HIS:H	8:O:740:GLU:H	1.62	0.46
1:A:94:LEU:HD12	1:A:248:LEU:N	2.31	0.46
1:A:107:CYS:N	1:A:111:ARG:HH21	2.14	0.46
1:A:193:ILE:CG2	1:A:196:SER:H	2.26	0.46
2:B:342:PHE:HB3	2:B:346:HIS:CD2	2.50	0.46
3:C:266:VAL:O	3:C:269:THR:OG1	2.25	0.46
3:C:351:ILE:O	7:H:126:THR:HB	2.15	0.46
5:E:129:ARG:HH22	6:F:87:PHE:HD2	1.63	0.46
5:E:150:ILE:O	5:E:153:SER:HB2	2.15	0.46
5:E:246:TRP:CE2	6:F:229:LYS:O	2.66	0.46
5:E:299:LYS:HE2	5:E:302:LYS:HZ2	1.80	0.46
6:F:72:LEU:HD23	6:F:86:SER:CB	2.45	0.46
6:F:289:MET:O	6:F:292:LEU:HB2	2.14	0.46
7:H:200:LEU:HD23	7:H:203:TYR:CD2	2.51	0.46
8:O:13:THR:HA	8:O:16:LYS:HZ2	1.81	0.46
8:O:122:ASP:OD2	8:O:127:TYR:HA	2.15	0.46
8:O:373:THR:HA	8:O:376:VAL:CB	2.45	0.46
8:O:443:LEU:HD22	8:O:476:MET:HE1	1.96	0.46
8:O:734:SER:OG	8:O:742:SER:HB3	2.16	0.46
9:P:28:LYS:O	10:Q:5:PHE:CZ	2.68	0.46
9:P:64:SER:O	9:P:69:PRO:HD3	2.15	0.46
12:V:146:PRO:N	12:V:148:PHE:N	2.63	0.46
13:G:62:ALA:HA	13:G:65:GLN:CG	2.45	0.46
13:G:62:ALA:CA	13:G:65:GLN:HE21	2.17	0.46
1:A:97:ILE:HA	1:A:100:LEU:HB2	1.96	0.46
1:A:267:ILE:HG22	1:A:282:LEU:HG	1.97	0.46
1:A:382:ASP:O	1:A:385:LYS:HB3	2.15	0.46
1:A:425:MET:HE3	1:A:429:PHE:CE2	2.50	0.46
2:B:99:ILE:CG2	2:B:100:ARG:HG3	2.37	0.46
2:B:132:TYR:CE1	2:B:154:LYS:HE2	2.50	0.46
3:C:317:LEU:HD11	3:C:325:ARG:NH1	2.22	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:344:ASP:HB2	3:C:346:GLU:CD	2.35	0.46
4:D:12:LEU:HD13	4:D:25:LYS:C	2.36	0.46
4:D:96:VAL:HG23	4:D:103:VAL:HG11	1.98	0.46
4:D:153:ARG:HB3	4:D:190:CYS:SG	2.56	0.46
5:E:241:LEU:HD23	6:F:200:VAL:CG1	2.46	0.46
6:F:109:GLU:HB2	6:F:113:LYS:HG2	1.98	0.46
8:O:115:LYS:NZ	8:O:116:ASN:OD1	2.36	0.46
8:O:170:ASP:HB2	8:O:249:ARG:NE	2.27	0.46
8:O:191:VAL:O	8:O:191:VAL:HG12	2.16	0.46
8:O:266:CYS:O	8:O:270:MET:HG3	2.15	0.46
8:O:460:LYS:HA	8:O:463:GLN:OE1	2.16	0.46
8:O:527:PHE:HD2	8:O:529:ILE:HD12	1.77	0.46
8:O:688:MET:HG3	8:O:731:ILE:HD12	1.95	0.46
12:V:87:VAL:HB	12:V:118:LEU:HD21	1.97	0.46
12:V:140:LEU:HD23	12:V:147:ILE:HG22	1.97	0.46
1:A:101:GLN:HG3	1:A:115:LEU:HD21	1.97	0.46
1:A:245:SER:HA	1:A:248:LEU:CB	2.36	0.46
1:A:355:PHE:HA	1:A:358:LEU:HD12	1.97	0.46
1:A:454:ASP:H	1:A:461:TYR:HE2	1.64	0.46
2:B:157:LYS:CD	2:B:160:LEU:HD11	2.46	0.46
2:B:246:LEU:HD21	2:B:342:PHE:CE1	2.50	0.46
2:B:283:ALA:O	2:B:287:MET:N	2.47	0.46
3:C:5:LEU:HD13	3:C:42:LEU:CD1	2.45	0.46
3:C:35:LEU:HB2	3:C:39:LEU:HG	1.97	0.46
3:C:229:LEU:HD22	3:C:233:ILE:CD1	2.45	0.46
3:C:299:LEU:O	3:C:302:LEU:HB3	2.15	0.46
3:C:331:PRO:HG2	3:C:332:GLN:NE2	2.30	0.46
4:D:8:ASP:OD2	4:D:28:GLN:NE2	2.48	0.46
4:D:13:MET:CE	4:D:57:VAL:HG23	2.46	0.46
4:D:42:LEU:O	4:D:46:LYS:HG3	2.15	0.46
4:D:385:LEU:HD22	6:F:234:ARG:O	2.14	0.46
4:D:403:GLN:HB2	6:F:237:LEU:HD23	1.98	0.46
5:E:276:SER:O	5:E:298:ASP:OD2	2.33	0.46
6:F:67:GLN:HG2	6:F:98:ILE:CD1	2.45	0.46
8:O:13:THR:HG22	8:O:44:ALA:HB3	1.96	0.46
8:O:189:VAL:HG21	8:O:203:TYR:HA	1.96	0.46
8:O:372:LEU:O	8:O:376:VAL:HG23	2.16	0.46
8:O:397:ASN:HA	8:O:400:LYS:HG2	1.96	0.46
9:P:46:LYS:HD3	9:P:61:GLY:HA3	1.97	0.46
9:P:98:GLU:CD	10:Q:85:GLU:OE1	2.54	0.46
12:V:74:VAL:CG2	12:V:111:SER:HB3	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:V:79:ARG:H	12:V:151:ILE:HB	1.81	0.46
13:G:29:ALA:O	13:G:32:SER:HB3	2.15	0.46
13:G:43:PHE:H	13:G:67:LEU:HD11	1.80	0.46
13:G:108:MET:CB	13:G:111:ILE:HD13	2.32	0.46
1:A:122:VAL:HG11	1:A:131:TYR:CD1	2.50	0.46
1:A:138:LEU:HD23	1:A:162:LEU:N	2.31	0.46
1:A:194:LYS:HB3	1:A:227:TYR:HB3	1.97	0.46
1:A:492:ARG:O	1:A:495:VAL:HG22	2.16	0.46
2:B:133:GLU:OE2	2:B:134:THR:HG23	2.15	0.46
2:B:162:ARG:HD3	2:B:164:GLU:N	2.31	0.46
2:B:163:GLU:OE2	2:B:203:GLN:HG3	2.16	0.46
2:B:216:ALA:HA	2:B:219:GLU:OE1	2.15	0.46
2:B:379:ASN:O	2:B:380:ILE:HD13	2.15	0.46
3:C:71:VAL:HA	3:C:115:LYS:HZ1	1.80	0.46
3:C:238:VAL:HG12	3:C:239:GLN:O	2.15	0.46
4:D:149:LEU:HD12	4:D:183:LEU:HD11	1.97	0.46
4:D:183:LEU:HA	4:D:186:HIS:CD2	2.49	0.46
4:D:215:THR:CA	4:D:222:ARG:HD3	2.43	0.46
5:E:234:ASP:CA	6:F:49:LEU:HD22	2.46	0.46
6:F:67:GLN:NE2	6:F:98:ILE:HD11	2.31	0.46
8:O:27:LEU:HA	8:O:28:GLU:HA	1.63	0.46
8:O:62:LYS:HA	8:O:142:LEU:CD1	2.46	0.46
8:O:65:LEU:HD13	8:O:142:LEU:HD23	1.98	0.46
8:O:240:LEU:HG	8:O:244:LYS:HE3	1.96	0.46
8:O:279:HIS:HB3	8:O:310:HIS:CB	2.45	0.46
8:O:403:ALA:O	8:O:404:LYS:HG3	2.15	0.46
8:O:566:MET:N	11:R:23:GLU:OE2	2.47	0.46
8:O:584:VAL:HG11	8:O:610:LEU:CB	2.42	0.46
8:O:584:VAL:HG21	8:O:609:GLU:HB2	1.97	0.46
8:O:587:ALA:HB1	8:O:599:LEU:CD1	2.46	0.46
8:O:610:LEU:HD23	8:O:631:ASP:HB3	1.98	0.46
12:V:146:PRO:HG3	12:V:148:PHE:CG	2.51	0.46
13:G:43:PHE:CE2	13:G:67:LEU:HD13	2.50	0.46
13:G:145:LEU:HA	13:G:152:LEU:HA	1.97	0.46
13:G:211:ALA:O	13:G:214:THR:HG22	2.15	0.46
1:A:344:ARG:O	1:A:348:SER:OG	2.34	0.46
1:A:376:SER:O	1:A:379:LYS:HB3	2.16	0.46
1:A:389:LEU:HD12	1:A:395:ALA:CA	2.36	0.46
1:A:487:LYS:O	1:A:491:LEU:HG	2.16	0.46
2:B:34:ASN:OD1	2:B:60:LEU:HB2	2.15	0.46
2:B:167:LYS:O	2:B:170:LYS:HE3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:441:LYS:NZ	6:F:303:ASN:HD21	2.10	0.46
3:C:41:HIS:HA	3:C:44:THR:HB	1.97	0.46
3:C:57:GLY:O	3:C:61:VAL:HG23	2.15	0.46
3:C:176:TYR:CE1	3:C:180:HIS:HB2	2.50	0.46
4:D:206:GLN:O	4:D:210:GLU:HG3	2.15	0.46
4:D:361:PHE:CB	4:D:364:ARG:HH12	2.21	0.46
4:D:392:ALA:HA	4:D:394:GLU:OE1	2.16	0.46
5:E:92:ILE:HG23	5:E:94:ASP:O	2.15	0.46
5:E:253:SER:CA	5:E:324:LYS:HZ3	2.28	0.46
5:E:317:GLY:O	5:E:320:SER:OG	2.27	0.46
7:H:38:GLY:O	7:H:74:ILE:HD13	2.15	0.46
7:H:133:PHE:HA	7:H:136:PHE:CB	2.46	0.46
7:H:163:LEU:HB3	7:H:165:ARG:NH2	2.31	0.46
8:O:50:PRO:HA	8:O:53:LEU:HB2	1.97	0.46
8:O:178:GLN:O	8:O:252:LYS:HB3	2.16	0.46
8:O:610:LEU:O	8:O:613:THR:HB	2.16	0.46
8:O:641:ASN:OD1	8:O:642:MET:N	2.48	0.46
8:O:653:ILE:O	8:O:655:THR:N	2.48	0.46
8:O:688:MET:SD	8:O:725:LEU:CD1	3.04	0.46
11:R:38:VAL:CG1	11:R:40:ASP:H	2.28	0.46
12:V:73:GLN:CB	12:V:140:LEU:HB3	2.28	0.46
1:A:98:GLU:OE1	1:A:249:GLN:NE2	2.49	0.46
1:A:170:THR:HA	1:A:173:LYS:HE2	1.98	0.46
1:A:473:GLU:O	1:A:477:LEU:HG	2.15	0.46
2:B:165:TYR:O	2:B:169:GLN:N	2.23	0.46
2:B:298:GLU:HB2	2:B:302:TYR:CE2	2.51	0.46
3:C:94:ARG:CD	3:C:131:MET:HG3	2.38	0.46
3:C:192:TYR:O	3:C:197:ASN:N	2.49	0.46
3:C:309:ARG:HA	3:C:312:LYS:HZ3	1.81	0.46
3:C:339:LEU:O	3:C:343:GLU:HB3	2.10	0.46
3:C:397:ILE:HA	3:C:400:ASN:ND2	2.31	0.46
4:D:2:ALA:HB1	4:D:43:GLU:CG	2.46	0.46
4:D:78:ASP:HA	4:D:81:ALA:CB	2.43	0.46
4:D:211:LEU:HD23	4:D:214:LYS:NZ	2.31	0.46
4:D:263:ILE:HD11	4:D:280:GLU:OE1	2.15	0.46
4:D:264:LEU:HA	4:D:267:MET:CB	2.42	0.46
4:D:319:ILE:HG22	4:D:359:VAL:CG1	2.46	0.46
4:D:325:GLY:HA3	4:D:332:ALA:HA	1.98	0.46
5:E:104:GLU:CD	5:E:148:SER:HB3	2.36	0.46
5:E:262:THR:O	5:E:266:VAL:HG23	2.16	0.46
5:E:268:ASP:C	5:E:272:LYS:HG3	2.37	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:267:LEU:CD1	13:G:177:TRP:CD2	2.86	0.46
7:H:103:GLN:N	7:H:104:PRO:HD2	2.31	0.46
7:H:129:ILE:HG22	7:H:132:ASP:N	2.28	0.46
8:O:6:ARG:CB	8:O:49:TYR:HB2	2.43	0.46
8:O:53:LEU:HG	8:O:56:ARG:HH12	1.81	0.46
8:O:65:LEU:HD13	8:O:142:LEU:CD2	2.46	0.46
8:O:119:THR:HG23	8:O:136:LEU:O	2.16	0.46
8:O:226:LEU:HD13	8:O:238:LYS:HB2	1.98	0.46
8:O:245:ASP:O	8:O:248:ILE:HB	2.16	0.46
8:O:399:LEU:HD22	8:O:454:GLU:CG	2.45	0.46
8:O:512:LEU:CB	8:O:551:ARG:HA	2.46	0.46
8:O:529:ILE:CG2	8:O:533:LEU:HB2	2.44	0.46
8:O:555:TRP:CZ3	11:R:29:ALA:CA	2.99	0.46
11:R:44:ILE:HG22	11:R:55:GLU:CD	2.36	0.46
12:V:74:VAL:HG23	12:V:140:LEU:CA	2.46	0.46
12:V:181:VAL:N	12:V:184:LEU:HB2	2.31	0.46
12:V:192:PRO:HA	12:V:196:LYS:HD2	1.97	0.46
13:G:66:LEU:CD1	13:G:85:LEU:HD13	2.42	0.46
13:G:71:ALA:CA	13:G:163:ARG:HA	2.45	0.46
13:G:102:VAL:HG23	13:G:103:SER:N	2.30	0.46
1:A:94:LEU:HB2	1:A:247:TYR:O	2.16	0.46
1:A:201:HIS:O	1:A:220:CYS:HB3	2.16	0.46
1:A:203:ASP:O	1:A:206:ASP:HB2	2.16	0.46
1:A:244:VAL:O	1:A:248:LEU:HG	2.16	0.46
1:A:486:ALA:HB2	3:C:386:LEU:HD21	1.97	0.46
2:B:230:HIS:CD2	8:O:459:ASN:ND2	2.84	0.46
2:B:294:PHE:CD2	2:B:300:LYS:HA	2.50	0.46
2:B:387:SER:O	2:B:391:GLN:HG3	2.16	0.46
3:C:131:MET:HG2	3:C:170:CYS:SG	2.56	0.46
3:C:198:PHE:HB2	3:C:234:LEU:CD2	2.38	0.46
3:C:225:LYS:HA	3:C:260:TYR:CZ	2.51	0.46
4:D:217:VAL:CG1	4:D:221:GLU:HB2	2.46	0.46
4:D:250:PHE:HA	4:D:261:TYR:HE1	1.81	0.46
4:D:406:GLN:OE1	6:F:236:LYS:HD2	2.16	0.46
5:E:84:LYS:CE	5:E:91:ILE:HG21	2.46	0.46
5:E:170:ILE:HG12	5:E:183:LEU:HA	1.97	0.46
5:E:245:TYR:HE2	6:F:222:ILE:HD13	1.54	0.46
5:E:246:TRP:HE3	6:F:228:ILE:HG22	1.71	0.46
6:F:41:VAL:HG12	6:F:74:GLY:O	2.16	0.46
6:F:72:LEU:O	6:F:122:LEU:HB3	2.16	0.46
7:H:60:ILE:HG22	7:H:65:LYS:HG3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:H:96:HIS:CE1	7:H:102:VAL:HG11	2.51	0.46
8:O:38:ARG:CG	8:O:104:LEU:HD22	2.46	0.46
8:O:78:GLU:HB2	8:O:83:VAL:HG21	1.97	0.46
8:O:160:ILE:HG23	8:O:207:PHE:CD1	2.51	0.46
8:O:322:GLU:HB2	8:O:325:ARG:NH1	2.29	0.46
8:O:363:HIS:O	8:O:366:SER:HB2	2.16	0.46
8:O:395:CYS:SG	8:O:398:LEU:HD12	2.56	0.46
8:O:407:THR:HB	8:O:410:GLU:CB	2.41	0.46
8:O:407:THR:O	8:O:410:GLU:HB3	2.16	0.46
8:O:695:ARG:CD	8:O:740:GLU:CB	2.94	0.46
8:O:695:ARG:CD	8:O:740:GLU:HB2	2.46	0.46
12:V:88:TRP:CZ3	12:V:90:ASN:HA	2.49	0.46
13:G:56:ALA:HB1	13:G:64:LEU:CD1	2.32	0.46
13:G:66:LEU:HD22	13:G:88:LEU:HD21	1.98	0.46
13:G:69:LEU:HD11	13:G:74:THR:H	1.81	0.46
13:G:93:GLN:O	13:G:97:LYS:HG3	2.14	0.46
1:A:178:LEU:HD11	1:A:211:CYS:SG	2.56	0.46
1:A:208:TYR:CE2	1:A:216:ASN:HB3	2.51	0.46
1:A:422:MET:HG3	1:A:459:ILE:CA	2.46	0.46
1:A:494:ALA:HA	1:A:497:ARG:CZ	2.46	0.46
2:B:212:LYS:HA	2:B:215:LYS:HB3	1.98	0.46
3:C:167:MET:HA	3:C:169:ILE:HD12	1.98	0.46
3:C:217:SER:OG	3:C:219:ILE:HB	2.16	0.46
3:C:310:LEU:CD1	3:C:322:MET:HG3	2.46	0.46
4:D:213:TYR:O	4:D:215:THR:HG23	2.16	0.46
4:D:242:ARG:O	4:D:246:LEU:HG	2.16	0.46
4:D:287:PRO:HA	4:D:290:LYS:CD	2.42	0.46
4:D:381:VAL:HG21	6:F:263:LEU:CD1	2.46	0.46
4:D:394:GLU:O	4:D:398:GLN:HG2	2.16	0.46
5:E:159:GLN:HE22	5:E:187:ARG:HA	1.81	0.46
5:E:187:ARG:HD3	5:E:222:TYR:OH	2.16	0.46
5:E:209:ASN:HB2	5:E:210:LYS:HZ3	1.79	0.46
5:E:246:TRP:HZ2	6:F:233:SER:N	2.14	0.46
5:E:306:ASP:O	5:E:309:LYS:HG2	2.15	0.46
5:E:322:VAL:HA	6:F:279:PHE:CE1	2.51	0.46
6:F:58:MET:O	6:F:66:VAL:HG21	2.16	0.46
6:F:69:ILE:CG2	6:F:124:TRP:HB2	2.45	0.46
6:F:100:ILE:HG12	6:F:138:VAL:CG1	2.46	0.46
6:F:254:HIS:CD2	13:G:162:ILE:HD13	2.51	0.46
7:H:20:CYS:O	7:H:23:GLN:HB2	2.15	0.46
7:H:23:GLN:OE1	7:H:36:VAL:HG22	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:H:46:LEU:HD21	7:H:105:ILE:O	2.17	0.46
8:O:311:MET:HB3	8:O:364:PHE:CE1	2.51	0.46
8:O:555:TRP:CH2	11:R:29:ALA:HB1	2.43	0.46
11:R:79:PHE:HE2	11:R:94:CYS:SG	2.39	0.46
12:V:84:VAL:HG13	12:V:119:PHE:CG	2.51	0.46
12:V:146:PRO:CG	12:V:148:PHE:CG	2.99	0.46
12:V:181:VAL:HG12	12:V:183:SER:H	1.81	0.46
1:A:135:HIS:HB2	1:A:162:LEU:CD2	2.32	0.45
1:A:343:GLN:HG3	1:A:347:ILE:HD12	1.98	0.45
2:B:287:MET:CE	2:B:289:SER:HB3	2.46	0.45
3:C:39:LEU:HD22	3:C:61:VAL:HG13	1.97	0.45
3:C:41:HIS:HA	3:C:44:THR:CB	2.46	0.45
3:C:376:ILE:O	3:C:379:GLU:HB2	2.15	0.45
4:D:120:TRP:CE3	4:D:154:LEU:HA	2.51	0.45
4:D:279:GLN:HA	4:D:282:ALA:HB3	1.97	0.45
5:E:56:LYS:O	5:E:91:ILE:HG23	2.16	0.45
5:E:62:LEU:O	5:E:66:VAL:HB	2.16	0.45
5:E:205:THR:HG21	5:E:302:LYS:HG2	1.95	0.45
5:E:252:SER:H	6:F:221:LEU:CA	2.29	0.45
5:E:268:ASP:HB3	5:E:272:LYS:HZ2	1.81	0.45
6:F:69:ILE:HG13	6:F:91:SER:CB	2.44	0.45
6:F:72:LEU:HD13	6:F:150:LEU:CD2	2.45	0.45
6:F:291:TYR:O	6:F:295:ILE:HG13	2.16	0.45
8:O:227:LEU:HD22	8:O:274:HIS:ND1	2.31	0.45
8:O:397:ASN:O	8:O:400:LYS:HG2	2.16	0.45
8:O:407:THR:H	8:O:410:GLU:HB3	1.80	0.45
8:O:412:GLU:HA	8:O:415:LEU:HD12	1.97	0.45
8:O:660:ASP:CA	8:O:663:GLN:CB	2.94	0.45
11:R:19:LYS:HA	11:R:23:GLU:CD	2.36	0.45
11:R:64:THR:O	11:R:68:CYS:HB3	2.15	0.45
11:R:84:ILE:HA	11:R:95:PRO:HD3	1.97	0.45
13:G:130:ASP:O	13:G:133:ILE:HG12	2.17	0.45
13:G:197:GLN:NE2	13:G:197:GLN:HA	2.30	0.45
1:A:139:SER:HA	1:A:160:PRO:HB3	1.98	0.45
1:A:146:GLN:HA	1:A:149:PRO:CG	2.28	0.45
1:A:185:LEU:HD22	1:A:204:LEU:CD2	2.46	0.45
1:A:255:LEU:HA	1:A:258:VAL:HG23	1.99	0.45
1:A:306:LEU:O	1:A:309:ALA:HB3	2.16	0.45
1:A:453:VAL:HG23	1:A:460:LEU:CD1	2.46	0.45
2:B:146:ARG:NE	2:B:193:GLN:HE22	2.14	0.45
2:B:170:LYS:HD2	2:B:171:ILE:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:201:GLU:O	2:B:205:TYR:HD2	1.99	0.45
2:B:245:HIS:CD2	2:B:254:ALA:HB2	2.51	0.45
2:B:387:SER:O	2:B:390:VAL:HG22	2.16	0.45
3:C:224:TYR:CE1	3:C:257:SER:HB2	2.51	0.45
4:D:127:LEU:HD23	4:D:130:ILE:HD11	1.98	0.45
4:D:305:ILE:O	4:D:328:LEU:HD22	2.16	0.45
5:E:60:LEU:HD12	5:E:63:LEU:HD12	1.98	0.45
5:E:234:ASP:OD1	6:F:49:LEU:HD22	2.16	0.45
5:E:246:TRP:HA	6:F:219:GLU:CB	2.45	0.45
6:F:49:LEU:O	6:F:52:SER:HB3	2.16	0.45
6:F:273:ASP:O	6:F:274:LYS:N	2.49	0.45
7:H:194:GLU:N	13:G:187:GLY:C	2.68	0.45
8:O:387:ALA:HA	8:O:390:LEU:HD12	1.97	0.45
8:O:409:ASN:HB3	8:O:413:ASP:CG	2.37	0.45
8:O:537:VAL:HG23	8:O:553:LEU:CG	2.46	0.45
8:O:571:LYS:HB3	8:O:573:TYR:CD2	2.52	0.45
8:O:623:ILE:CG2	8:O:625:HIS:HB3	2.47	0.45
8:O:656:SER:CB	8:O:658:GLN:HG3	2.40	0.45
8:O:725:LEU:HD23	8:O:725:LEU:HA	1.69	0.45
11:R:77:HIS:HB3	11:R:99:ARG:CD	2.37	0.45
13:G:88:LEU:HD22	13:G:92:GLN:OE1	2.17	0.45
1:A:196:SER:HA	1:A:199:ARG:HG2	1.98	0.45
1:A:313:HIS:HB2	1:A:315:ASP:O	2.16	0.45
1:A:407:ASN:O	1:A:411:ILE:HG13	2.16	0.45
1:A:414:PHE:CE1	1:A:420:ALA:HB2	2.52	0.45
1:A:453:VAL:HA	1:A:459:ILE:O	2.15	0.45
2:B:85:PHE:O	2:B:88:MET:N	2.49	0.45
2:B:205:TYR:HB3	2:B:211:ASN:OD1	2.16	0.45
2:B:218:TYR:HA	2:B:221:SER:CB	2.46	0.45
2:B:333:ASN:CG	2:B:337:ILE:HG13	2.36	0.45
2:B:402:ILE:HA	2:B:409:LEU:CD1	2.43	0.45
2:B:424:LEU:CA	5:E:266:VAL:HG12	2.19	0.45
3:C:125:LYS:HA	3:C:128:ILE:CB	2.46	0.45
3:C:158:ALA:O	3:C:162:LEU:HG	2.15	0.45
3:C:184:TYR:HA	3:C:187:TYR:CD2	2.51	0.45
4:D:70:CYS:HA	4:D:73:LEU:CD1	2.46	0.45
4:D:228:HIS:O	4:D:231:HIS:HB2	2.17	0.45
4:D:235:LEU:HD21	4:D:285:LEU:HD11	1.99	0.45
5:E:81:MET:HG3	5:E:137:TYR:N	2.31	0.45
5:E:251:SER:C	5:E:324:LYS:HD3	2.37	0.45
5:E:332:ASN:CG	13:G:180:GLY:N	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:155:ASN:HD21	6:F:157:MET:HB2	1.80	0.45
7:H:148:ILE:HG21	7:H:162:VAL:HG11	1.98	0.45
8:O:285:ILE:HG21	8:O:294:MET:HB2	1.99	0.45
8:O:695:ARG:CD	8:O:740:GLU:HG3	2.45	0.45
8:O:729:GLN:CA	11:R:55:GLU:HG3	2.44	0.45
9:P:93:PHE:CA	10:Q:16:TYR:HH	2.29	0.45
9:P:93:PHE:C	10:Q:51:SER:HB2	2.37	0.45
1:A:251:TRP:CZ2	1:A:291:LEU:HD23	2.50	0.45
1:A:368:LYS:HE3	1:A:380:MET:CG	2.46	0.45
1:A:372:SER:HB3	1:A:374:TYR:CE2	2.52	0.45
1:A:388:LEU:CA	1:A:394:LEU:HD23	2.46	0.45
1:A:401:LEU:O	1:A:405:ILE:HG13	2.16	0.45
1:A:467:GLN:HE22	2:B:422:THR:CA	2.28	0.45
2:B:11:ASP:O	2:B:15:ASP:CG	2.55	0.45
2:B:162:ARG:CD	2:B:164:GLU:HB2	2.46	0.45
2:B:292:ASN:HA	2:B:295:ASP:HB2	1.98	0.45
2:B:340:ASP:OD2	2:B:343:ILE:HG13	2.15	0.45
2:B:357:GLN:C	2:B:361:LYS:HZ2	2.19	0.45
2:B:389:LEU:O	2:B:393:ILE:HG12	2.16	0.45
2:B:426:LYS:HA	2:B:429:ASN:HB3	1.98	0.45
3:C:5:LEU:HA	3:C:8:PHE:CE2	2.41	0.45
3:C:13:ARG:HA	3:C:49:LEU:CD1	2.46	0.45
3:C:23:GLN:O	3:C:27:LEU:HG	2.16	0.45
3:C:76:THR:OG1	3:C:77:LEU:N	2.50	0.45
3:C:176:TYR:HA	3:C:180:HIS:ND1	2.31	0.45
3:C:225:LYS:HD3	3:C:285:THR:HG21	1.96	0.45
3:C:378:GLN:HA	3:C:381:LEU:CD1	2.46	0.45
3:C:386:LEU:O	3:C:390:LEU:HG	2.16	0.45
4:D:10:ALA:O	4:D:13:MET:HB3	2.17	0.45
4:D:40:GLU:OE1	4:D:40:GLU:N	2.46	0.45
4:D:319:ILE:HG22	4:D:359:VAL:HG12	1.99	0.45
4:D:342:MET:HA	4:D:345:GLU:OE1	2.17	0.45
5:E:121:ILE:O	5:E:124:ALA:HB3	2.17	0.45
5:E:242:TRP:CZ3	6:F:219:GLU:CD	2.88	0.45
5:E:273:LEU:HA	5:E:303:ALA:CB	2.46	0.45
5:E:299:LYS:HG2	5:E:302:LYS:CE	2.47	0.45
5:E:330:GLN:HG2	6:F:268:PRO:HG3	1.98	0.45
6:F:72:LEU:HD21	6:F:152:LEU:CB	2.45	0.45
6:F:311:VAL:HG12	6:F:312:LEU:HD22	1.99	0.45
7:H:80:ARG:HD3	7:H:92:THR:HG21	1.98	0.45
7:H:123:GLN:CA	7:H:166:LYS:HE3	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:H:129:ILE:HB	7:H:132:ASP:OD2	2.17	0.45
8:O:38:ARG:HA	8:O:41:ASP:HB3	1.99	0.45
8:O:80:GLU:C	8:O:84:LEU:HD13	2.37	0.45
8:O:182:HIS:CE1	8:O:186:ASN:HD21	2.34	0.45
8:O:257:SER:HB3	8:O:261:LYS:HE3	1.98	0.45
8:O:308:LEU:O	8:O:311:MET:HB2	2.16	0.45
8:O:521:GLN:H	8:O:556:LEU:HD23	0.66	0.45
8:O:596:TYR:HA	8:O:632:ILE:CG2	2.46	0.45
13:G:12:LEU:HD22	13:G:13:GLU:N	2.32	0.45
13:G:18:LEU:CD1	13:G:30:LEU:CD1	2.95	0.45
1:A:107:CYS:SG	1:A:110:LEU:HB2	2.56	0.45
1:A:254:VAL:O	1:A:258:VAL:HG23	2.17	0.45
1:A:431:THR:CG2	1:A:436:LEU:HD22	2.47	0.45
1:A:436:LEU:HA	1:A:439:GLU:CD	2.37	0.45
1:A:487:LYS:HG2	3:C:167:MET:CE	2.47	0.45
2:B:300:LYS:HD2	11:R:72:TRP:HB3	1.98	0.45
2:B:384:ASP:O	2:B:387:SER:HB2	2.17	0.45
2:B:399:HIS:HB3	2:B:412:ASP:N	2.32	0.45
3:C:154:CYS:HB2	7:H:59:ARG:NE	2.32	0.45
3:C:320:GLN:CB	3:C:331:PRO:HD3	2.37	0.45
4:D:238:ALA:HA	4:D:242:ARG:CD	2.37	0.45
4:D:320:THR:CG2	4:D:358:ILE:HG12	2.41	0.45
4:D:388:ILE:CG2	4:D:393:PRO:C	2.69	0.45
5:E:90:MET:HB2	5:E:224:LEU:CD2	2.46	0.45
5:E:159:GLN:HG3	5:E:165:PHE:HD2	1.82	0.45
5:E:189:TYR:CZ	5:E:196:PRO:HD2	2.51	0.45
5:E:238:LEU:CD1	6:F:203:VAL:HB	2.46	0.45
5:E:315:ILE:HG21	7:H:204:VAL:HG23	1.98	0.45
5:E:327:LEU:HD22	13:G:181:CYS:C	2.37	0.45
6:F:171:VAL:HG12	6:F:172:ILE:N	2.31	0.45
7:H:13:PHE:HD1	7:H:46:LEU:HB3	1.82	0.45
7:H:62:PRO:HA	7:H:65:LYS:HB2	1.98	0.45
8:O:69:VAL:HG12	8:O:150:LEU:HD12	1.99	0.45
8:O:130:VAL:CG2	8:O:142:LEU:HA	2.47	0.45
8:O:154:PRO:HG2	8:O:155:LEU:HD23	1.99	0.45
8:O:159:LEU:HD13	8:O:188:PHE:CZ	2.52	0.45
8:O:207:PHE:O	8:O:210:PRO:HD2	2.17	0.45
8:O:220:LYS:HD3	8:O:269:ARG:O	2.17	0.45
8:O:512:LEU:HB3	8:O:551:ARG:HA	1.97	0.45
8:O:599:LEU:HD22	8:O:610:LEU:HD22	1.99	0.45
8:O:622:MET:SD	8:O:650:LYS:HD2	2.57	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R:53:CYS:HB3	11:R:80:HIS:CE1	2.51	0.45
11:R:78:ALA:HB2	11:R:100:GLU:OE1	2.17	0.45
13:G:15:PHE:CZ	13:G:33:GLN:HG2	2.52	0.45
13:G:112:PRO:CG	13:G:151:LEU:HD22	2.47	0.45
1:A:200:GLY:O	1:A:204:LEU:HD13	2.17	0.45
1:A:341:GLU:HA	1:A:344:ARG:HB2	1.97	0.45
1:A:350:SER:O	1:A:353:LYS:HB3	2.17	0.45
2:B:172:LEU:HD13	2:B:197:ILE:HG23	1.99	0.45
2:B:314:LEU:CD2	2:B:329:ILE:HD13	2.47	0.45
2:B:417:GLY:HA2	2:B:420:ARG:NH2	2.30	0.45
2:B:428:THR:HA	2:B:431:LEU:CD1	2.44	0.45
3:C:139:THR:HA	3:C:170:CYS:O	2.17	0.45
3:C:226:LYS:HA	3:C:229:LEU:HD12	1.97	0.45
3:C:258:ASN:HA	3:C:261:HIS:HD2	1.81	0.45
3:C:306:ASN:HD22	3:C:309:ARG:NH1	2.15	0.45
4:D:215:THR:HA	4:D:222:ARG:NH1	2.31	0.45
4:D:263:ILE:CD1	4:D:277:GLN:HB3	2.46	0.45
5:E:282:ARG:HH11	5:E:282:ARG:HB2	1.77	0.45
6:F:59:ARG:HG3	6:F:64:ARG:C	2.37	0.45
6:F:83:VAL:HG21	6:F:167:VAL:CG2	2.46	0.45
6:F:138:VAL:O	6:F:142:VAL:HG23	2.17	0.45
6:F:252:PHE:CE1	13:G:165:LYS:HG3	2.50	0.45
7:H:34:PRO:O	7:H:37:TYR:HB2	2.17	0.45
8:O:3:LEU:HD23	8:O:49:TYR:OH	2.17	0.45
8:O:117:LYS:CD	8:O:136:LEU:HB3	2.47	0.45
8:O:513:GLN:NE2	8:O:554:THR:HG21	2.31	0.45
8:O:564:VAL:CG2	11:R:19:LYS:CE	2.80	0.45
8:O:656:SER:C	8:O:658:GLN:HG3	2.36	0.45
8:O:727:ASP:CA	11:R:55:GLU:OE2	2.61	0.45
9:P:15:PHE:HE2	10:Q:16:TYR:HB2	1.59	0.45
9:P:19:LYS:O	9:P:57:LEU:HB2	2.17	0.45
9:P:43:ARG:NH1	9:P:85:PHE:HB3	2.31	0.45
9:P:43:ARG:NE	9:P:88:LEU:HB2	2.31	0.45
9:P:45:TYR:HA	9:P:51:LEU:CD1	2.46	0.45
9:P:103:MET:HA	10:Q:84:THR:CG2	2.34	0.45
9:P:103:MET:HG2	10:Q:84:THR:OG1	2.16	0.45
11:R:88:LEU:O	11:R:92:GLN:NE2	2.49	0.45
13:G:11:LEU:HD13	13:G:37:ALA:HB1	1.98	0.45
13:G:145:LEU:HG	13:G:152:LEU:HD13	1.99	0.45
1:A:273:GLU:HG3	1:A:277:GLN:HG3	1.98	0.45
1:A:372:SER:HB3	1:A:374:TYR:CZ	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:453:VAL:HG22	1:A:459:ILE:O	2.17	0.45
1:A:468:ARG:NH1	6:F:285:ASP:OD2	2.49	0.45
1:A:502:VAL:HG12	3:C:215:ALA:CB	2.41	0.45
1:A:502:VAL:N	3:C:213:ALA:HA	2.15	0.45
2:B:149:PHE:CE2	2:B:193:GLN:HA	2.52	0.45
2:B:225:LYS:HA	2:B:228:ILE:HG22	1.99	0.45
2:B:278:LYS:CE	2:B:311:MET:HB2	2.44	0.45
2:B:282:LEU:O	2:B:285:MET:HG2	2.16	0.45
3:C:55:SER:O	3:C:59:LEU:HG	2.15	0.45
3:C:303:TYR:CE1	3:C:327:GLN:HB2	2.52	0.45
4:D:146:GLU:N	4:D:183:LEU:HD21	2.31	0.45
4:D:226:LEU:CG	4:D:258:LEU:HD11	2.39	0.45
4:D:324:LEU:CD1	4:D:327:LEU:HD23	2.46	0.45
5:E:243:ASN:C	6:F:229:LYS:CD	2.85	0.45
6:F:43:LEU:CD1	6:F:84:MET:HB3	2.46	0.45
6:F:50:ASN:HA	6:F:53:ASP:CB	2.46	0.45
6:F:289:MET:HA	6:F:292:LEU:CD1	2.44	0.45
8:O:7:VAL:HG22	12:V:182:ARG:HH22	1.82	0.45
8:O:36:ASN:OD1	10:Q:39:GLU:CB	2.65	0.45
8:O:87:TYR:HA	8:O:90:TYR:CG	2.51	0.45
8:O:581:GLN:HE21	8:O:612:LYS:HZ3	1.64	0.45
8:O:596:TYR:HB2	8:O:632:ILE:HG23	1.99	0.45
11:R:72:TRP:CE2	11:R:102:GLU:HG2	2.52	0.45
13:G:22:THR:CG2	13:G:27:LEU:CA	2.94	0.45
13:G:104:LEU:HD12	13:G:116:LEU:HD21	1.99	0.45
1:A:128:VAL:CG1	1:A:132:GLU:HG3	2.47	0.45
1:A:173:LYS:HB3	1:A:177:LYS:NZ	2.32	0.45
1:A:411:ILE:HA	1:A:448:LEU:HD11	1.98	0.45
1:A:425:MET:HE1	1:A:440:LEU:HD11	1.99	0.45
2:B:93:LYS:HA	2:B:96:LEU:HD12	1.99	0.45
2:B:282:LEU:HD21	2:B:346:HIS:CB	2.47	0.45
2:B:305:ASP:HB3	2:B:308:ILE:HG12	1.97	0.45
2:B:381:ASP:OD2	2:B:383:ALA:HB3	2.17	0.45
3:C:93:ILE:CB	3:C:94:ARG:HH11	2.25	0.45
3:C:222:GLU:CG	3:C:225:LYS:HD2	2.37	0.45
3:C:291:ASN:O	3:C:294:LEU:HG	2.17	0.45
3:C:318:SER:HB3	3:C:321:ASP:HB2	1.99	0.45
3:C:331:PRO:CA	3:C:334:ALA:HB3	2.40	0.45
4:D:57:VAL:HG12	4:D:62:SER:OG	2.17	0.45
4:D:214:LYS:C	4:D:222:ARG:HD3	2.37	0.45
5:E:55:CYS:HB3	5:E:226:VAL:HA	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:102:GLY:HA3	5:E:106:ARG:NE	2.32	0.45
5:E:166:VAL:HG21	5:E:185:ALA:HB1	1.99	0.45
5:E:166:VAL:CG1	5:E:168:VAL:HG23	2.46	0.45
5:E:209:ASN:O	5:E:210:LYS:HD3	2.17	0.45
5:E:282:ARG:O	5:E:282:ARG:HD3	2.16	0.45
5:E:320:SER:HB3	6:F:220:HIS:CD2	2.52	0.45
6:F:138:VAL:HG22	6:F:141:GLN:OE1	2.17	0.45
6:F:146:ILE:HD11	6:F:149:PRO:CA	2.47	0.45
7:H:22:ASN:HA	7:H:25:LEU:HD12	1.98	0.45
7:H:141:VAL:O	7:H:144:ALA:HB3	2.16	0.45
8:O:4:LYS:NZ	10:Q:48:GLN:HE22	2.15	0.45
8:O:21:ILE:HA	8:O:24:VAL:CG1	2.47	0.45
8:O:57:LEU:HD21	8:O:108:LEU:HD21	1.99	0.45
8:O:291:LYS:HG2	8:O:294:MET:CG	2.47	0.45
8:O:505:ILE:CG2	8:O:533:LEU:HD21	2.47	0.45
8:O:555:TRP:CH2	11:R:29:ALA:HA	2.52	0.45
8:O:564:VAL:HB	11:R:19:LYS:NZ	2.31	0.45
8:O:566:MET:HE3	8:O:574:VAL:HG23	1.99	0.45
8:O:568:TYR:CE1	11:R:22:PHE:CD2	3.03	0.45
8:O:626:ASP:HB2	8:O:636:SER:HB3	1.98	0.45
11:R:39:VAL:N	11:R:49:ILE:HG12	2.19	0.45
12:V:195:GLN:HA	12:V:198:LEU:HB2	1.99	0.45
1:A:283:THR:CG2	1:A:309:ALA:HA	2.47	0.45
1:A:470:THR:HA	1:A:473:GLU:OE1	2.16	0.45
2:B:37:TYR:HB2	2:B:57:VAL:HG23	1.99	0.45
2:B:340:ASP:CB	2:B:343:ILE:HD12	2.47	0.45
2:B:421:TYR:CE1	6:F:289:MET:CE	2.99	0.45
3:C:23:GLN:OE1	3:C:26:GLU:HG3	2.17	0.45
3:C:85:ILE:HG22	3:C:126:GLN:OE1	2.17	0.45
3:C:205:TYR:CE2	3:C:226:LYS:HB2	2.52	0.45
3:C:221:LEU:CD2	3:C:253:ILE:HG23	2.46	0.45
3:C:310:LEU:HD22	3:C:314:PHE:CE2	2.40	0.45
3:C:340:HIS:HB3	3:C:344:ASP:OD2	2.15	0.45
3:C:354:LYS:HA	7:H:161:MET:HG3	1.99	0.45
3:C:367:TYR:HA	3:C:372:MET:CB	2.47	0.45
4:D:293:THR:HG21	4:D:302:ARG:CD	2.47	0.45
5:E:44:PRO:HD2	5:E:45:TRP:CE3	2.51	0.45
5:E:80:LEU:HD12	5:E:135:GLY:O	2.17	0.45
5:E:285:PHE:HB3	12:V:62:VAL:HG13	1.82	0.45
6:F:54:HIS:CE1	6:F:89:LEU:H	2.35	0.45
7:H:46:LEU:CD2	7:H:109:LEU:HB2	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:H:56:LEU:HG	7:H:60:ILE:CG1	2.47	0.45
7:H:90:TYR:O	7:H:93:ILE:HB	2.17	0.45
7:H:140:PRO:O	7:H:143:GLU:HB3	2.17	0.45
8:O:76:VAL:CB	8:O:155:LEU:HD21	2.46	0.45
8:O:323:GLY:HA3	8:O:375:VAL:HG21	1.99	0.45
8:O:552:LYS:CA	11:R:33:TRP:N	2.62	0.45
8:O:732:GLU:CB	8:O:744:VAL:HG21	2.45	0.45
9:P:31:VAL:HG13	9:P:35:LEU:HD12	1.98	0.45
9:P:32:GLU:HG3	9:P:36:LYS:CA	2.46	0.45
11:R:42:CYS:SG	11:R:53:CYS:HB3	2.57	0.45
12:V:71:PRO:CB	12:V:110:HIS:HB3	2.25	0.45
12:V:155:VAL:HG13	12:V:155:VAL:O	2.17	0.45
13:G:66:LEU:CD1	13:G:69:LEU:HD23	2.47	0.45
13:G:101:ILE:HG13	13:G:102:VAL:N	2.32	0.45
13:G:141:ILE:HG23	13:G:154:VAL:CG1	2.47	0.45
1:A:142:THR:HB	1:A:160:PRO:HB3	1.99	0.45
1:A:247:TYR:OH	1:A:318:GLU:HB3	2.17	0.45
1:A:361:GLN:O	1:A:365:ILE:HG13	2.17	0.45
2:B:58:LEU:CD1	2:B:72:LEU:HD21	2.44	0.45
2:B:119:ILE:HD13	2:B:131:PHE:CE2	2.52	0.45
2:B:198:TYR:O	2:B:202:ILE:HG13	2.17	0.45
2:B:221:SER:HA	2:B:224:ILE:CG1	2.47	0.45
2:B:284:ASN:O	2:B:287:MET:HB3	2.17	0.45
2:B:300:LYS:CD	11:R:72:TRP:HB3	2.46	0.45
3:C:135:THR:CB	3:C:166:MET:HA	2.46	0.45
4:D:145:LEU:HB2	4:D:174:LEU:CD1	2.45	0.45
4:D:206:GLN:HG2	4:D:245:MET:SD	2.57	0.45
4:D:264:LEU:CA	4:D:267:MET:HB2	2.44	0.45
5:E:120:TYR:HA	6:F:111:GLN:CB	2.42	0.45
5:E:230:LYS:HB2	5:E:234:ASP:OD2	2.16	0.45
5:E:244:LYS:C	6:F:229:LYS:HB3	2.38	0.45
5:E:252:SER:HB3	6:F:222:ILE:H	1.82	0.45
6:F:171:VAL:HB	6:F:182:LEU:CD1	2.38	0.45
6:F:258:ARG:CG	13:G:159:GLY:HA2	2.47	0.45
8:O:34:THR:O	8:O:37:ASP:HB3	2.17	0.45
8:O:118:LEU:HA	8:O:121:ALA:O	2.17	0.45
8:O:137:MET:HE3	8:O:141:GLU:OE1	2.17	0.45
8:O:169:ASN:HB3	8:O:174:GLU:N	2.32	0.45
8:O:395:CYS:HA	8:O:398:LEU:CD1	2.47	0.45
8:O:454:GLU:O	8:O:457:MET:HB3	2.16	0.45
8:O:505:ILE:CA	11:R:27:TRP:H	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:578:THR:OG1	8:O:656:SER:HB3	2.17	0.45
8:O:623:ILE:HG12	8:O:625:HIS:HB3	1.99	0.45
9:P:25:PHE:CA	9:P:39:PRO:HG3	2.44	0.45
9:P:100:PRO:CD	10:Q:88:LEU:HD11	2.47	0.45
11:R:84:ILE:HD12	11:R:94:CYS:SG	2.57	0.45
11:R:84:ILE:HG13	11:R:95:PRO:CD	2.47	0.45
12:V:73:GLN:O	12:V:140:LEU:CD2	2.40	0.45
13:G:35:LEU:CD2	13:G:63:TYR:HE1	2.30	0.45
1:A:108:PRO:HA	1:A:111:ARG:CB	2.46	0.44
1:A:450:SER:O	1:A:463:ARG:N	2.50	0.44
2:B:26:SER:C	2:B:28:PRO:CD	2.86	0.44
2:B:37:TYR:O	2:B:53:SER:HB3	2.17	0.44
2:B:281:VAL:HG12	2:B:285:MET:HE2	1.98	0.44
2:B:282:LEU:HD21	2:B:346:HIS:CD2	2.52	0.44
3:C:15:LEU:O	3:C:21:MET:HE3	2.16	0.44
4:D:30:LEU:O	4:D:34:ILE:HG13	2.17	0.44
4:D:68:ASP:O	4:D:71:THR:OG1	2.22	0.44
4:D:237:SER:O	4:D:239:GLY:N	2.51	0.44
4:D:254:ARG:O	4:D:257:GLN:HB2	2.16	0.44
4:D:293:THR:HG22	4:D:299:ILE:CA	2.48	0.44
4:D:306:GLU:HG2	4:D:328:LEU:CD1	2.47	0.44
4:D:403:GLN:OE1	6:F:237:LEU:N	2.50	0.44
5:E:45:TRP:HE3	5:E:52:PHE:HE2	1.64	0.44
5:E:50:HIS:NE2	5:E:198:GLU:HB2	2.32	0.44
5:E:120:TYR:HE1	6:F:112:PHE:HD1	1.64	0.44
5:E:151:ASP:HA	5:E:154:THR:CB	2.47	0.44
5:E:187:ARG:CG	5:E:224:LEU:HD11	2.46	0.44
5:E:279:GLN:HB2	5:E:299:LYS:CG	2.47	0.44
5:E:298:ASP:OD1	5:E:299:LYS:CA	2.66	0.44
5:E:300:LEU:HD23	6:F:304:GLN:NE2	2.32	0.44
6:F:36:THR:HG22	6:F:169:GLU:OE1	2.17	0.44
6:F:46:LEU:HD12	6:F:49:LEU:HB2	1.97	0.44
6:F:235:VAL:CG2	6:F:238:ILE:HD12	2.38	0.44
8:O:10:PHE:HA	8:O:13:THR:OG1	2.17	0.44
8:O:16:LYS:HB3	8:O:41:ASP:HB2	1.98	0.44
8:O:175:ASP:HB3	8:O:181:ILE:HG21	1.98	0.44
8:O:178:GLN:OE1	8:O:252:LYS:HE3	2.16	0.44
8:O:240:LEU:CG	8:O:244:LYS:HE3	2.47	0.44
12:V:126:ASP:OD1	12:V:192:PRO:HG3	2.17	0.44
12:V:134:GLU:HG3	12:V:200:ARG:HD2	1.99	0.44
13:G:36:GLU:HA	13:G:36:GLU:OE1	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:175:LEU:O	1:A:179:GLU:HG2	2.18	0.44
1:A:217:ALA:O	1:A:221:TYR:HD2	2.00	0.44
1:A:251:TRP:CH2	1:A:291:LEU:HB3	2.52	0.44
1:A:253:HIS:O	1:A:256:SER:HB2	2.17	0.44
1:A:291:LEU:HD11	1:A:294:LEU:HD13	2.00	0.44
1:A:294:LEU:CD2	1:A:393:TYR:HB3	2.47	0.44
1:A:457:SER:CB	1:A:461:TYR:HH	2.31	0.44
1:A:458:LYS:O	1:A:459:ILE:HG13	2.17	0.44
2:B:32:LEU:HD11	8:O:649:THR:HG1	1.81	0.44
2:B:156:GLY:HA3	2:B:200:LEU:HD11	1.98	0.44
2:B:388:LEU:HA	2:B:391:GLN:OE1	2.16	0.44
3:C:5:LEU:HB3	3:C:42:LEU:CD2	2.48	0.44
3:C:41:HIS:O	3:C:44:THR:HB	2.17	0.44
3:C:77:LEU:O	3:C:81:VAL:HG23	2.16	0.44
3:C:301:SER:O	3:C:304:LYS:HB2	2.17	0.44
3:C:310:LEU:HA	3:C:313:THR:OG1	2.16	0.44
5:E:27:GLU:HA	5:E:30:LYS:HE3	2.00	0.44
5:E:60:LEU:H	6:F:46:LEU:HD22	1.78	0.44
5:E:218:CYS:SG	5:E:219:LYS:HG2	2.57	0.44
6:F:181:MET:HG3	6:F:182:LEU:H	1.82	0.44
8:O:6:ARG:O	12:V:182:ARG:NH2	2.50	0.44
8:O:17:LEU:HD12	8:O:38:ARG:NH2	2.32	0.44
8:O:115:LYS:HG3	8:O:116:ASN:OD1	2.17	0.44
8:O:117:LYS:HD3	8:O:136:LEU:CB	2.46	0.44
8:O:136:LEU:HD23	8:O:136:LEU:HA	1.73	0.44
8:O:508:GLN:CB	8:O:559:LEU:HB3	2.30	0.44
8:O:555:TRP:CH2	11:R:29:ALA:CB	3.00	0.44
8:O:565:LYS:HA	8:O:574:VAL:HG22	1.98	0.44
8:O:622:MET:CG	8:O:650:LYS:HD2	2.47	0.44
8:O:718:ILE:HG23	8:O:719:LYS:HG3	1.99	0.44
9:P:6:MET:SD	10:Q:16:TYR:CD2	3.11	0.44
12:V:185:TYR:O	12:V:189:GLU:N	2.51	0.44
13:G:22:THR:HG23	13:G:27:LEU:CA	2.47	0.44
13:G:116:LEU:HD13	13:G:119:ASP:CB	2.43	0.44
13:G:140:ILE:CD1	13:G:158:ILE:H	2.28	0.44
1:A:194:LYS:CB	1:A:229:THR:HG23	2.44	0.44
1:A:367:PHE:O	1:A:371:GLU:HG3	2.18	0.44
1:A:455:SER:HB3	3:C:314:PHE:CD1	2.53	0.44
2:B:73:LYS:NZ	2:B:111:SER:HA	2.31	0.44
2:B:194:LEU:HA	2:B:197:ILE:CD1	2.39	0.44
2:B:426:LYS:HD2	2:B:429:ASN:CB	2.41	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:431:LEU:HD11	6:F:296:THR:OG1	2.17	0.44
2:B:443:ALA:CB	3:C:244:TYR:HB3	2.46	0.44
3:C:3:SER:HA	3:C:38:ASN:ND2	2.32	0.44
3:C:171:LYS:HB2	3:C:176:TYR:CG	2.52	0.44
3:C:352:ASN:HB3	3:C:357:MET:N	2.33	0.44
3:C:390:LEU:CD1	6:F:302:MET:HB2	2.46	0.44
4:D:5:VAL:CG1	4:D:28:GLN:HG2	2.47	0.44
4:D:195:LEU:HD13	4:D:204:ALA:HA	1.98	0.44
4:D:250:PHE:O	4:D:261:TYR:OH	2.21	0.44
5:E:31:TYR:OH	5:E:131:GLU:HA	2.17	0.44
5:E:83:GLY:CA	5:E:134:ILE:HG21	2.46	0.44
5:E:115:GLU:HA	5:E:118:ALA:HB2	2.00	0.44
6:F:102:LYS:HZ1	6:F:141:GLN:HG2	1.82	0.44
7:H:148:ILE:HG21	7:H:162:VAL:CG1	2.48	0.44
8:O:42:ILE:HG23	8:O:108:LEU:HD13	1.99	0.44
8:O:167:ILE:HG23	8:O:249:ARG:HD2	1.99	0.44
8:O:274:HIS:HB3	8:O:277:PHE:CD2	2.51	0.44
8:O:508:GLN:HB2	11:R:29:ALA:O	2.17	0.44
8:O:614:ILE:HG22	8:O:628:GLU:CG	2.39	0.44
8:O:696:HIS:CE1	8:O:718:ILE:HD13	2.53	0.44
9:P:78:ALA:CB	9:P:86:GLU:HB3	2.46	0.44
11:R:42:CYS:O	11:R:44:ILE:N	2.51	0.44
12:V:154:PRO:HD2	12:V:156:TYR:CE1	2.53	0.44
13:G:156:PHE:CG	13:G:157:CYS:N	2.86	0.44
1:A:100:LEU:HD22	1:A:117:MET:CB	2.46	0.44
1:A:251:TRP:CZ3	1:A:291:LEU:HB3	2.52	0.44
1:A:456:HIS:ND1	3:C:357:MET:HG3	2.32	0.44
2:B:281:VAL:HG12	2:B:285:MET:CE	2.47	0.44
2:B:314:LEU:HD11	2:B:329:ILE:HG22	1.99	0.44
3:C:89:ASN:ND2	3:C:130:LYS:HG3	2.32	0.44
3:C:131:MET:SD	3:C:139:THR:OG1	2.63	0.44
3:C:166:MET:HG3	3:C:169:ILE:CG1	2.48	0.44
3:C:232:LEU:CD1	3:C:263:LEU:HG	2.47	0.44
3:C:238:VAL:HG21	3:C:264:ALA:HB1	1.99	0.44
3:C:374:HIS:HA	3:C:377:ASP:CB	2.48	0.44
4:D:45:LEU:HB3	4:D:69:PHE:CZ	2.51	0.44
4:D:145:LEU:CD2	4:D:178:SER:HB3	2.47	0.44
5:E:62:LEU:HA	5:E:65:MET:HE2	1.98	0.44
5:E:111:ALA:HA	5:E:114:TYR:CD2	2.53	0.44
5:E:246:TRP:N	6:F:229:LYS:HD2	2.33	0.44
5:E:258:ASN:HB2	5:E:261:TYR:CD2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:H:126:THR:HA	7:H:166:LYS:NZ	2.33	0.44
7:H:148:ILE:HD12	7:H:149:LEU:HG	1.99	0.44
8:O:376:VAL:HG21	8:O:424:TYR:CB	2.48	0.44
8:O:421:VAL:O	8:O:424:TYR:HB2	2.18	0.44
8:O:428:LYS:HG3	8:O:429:ASP:N	2.33	0.44
8:O:429:ASP:O	8:O:433:LYS:HG2	2.17	0.44
8:O:623:ILE:CG1	8:O:625:HIS:HB3	2.48	0.44
9:P:13:THR:C	10:Q:16:TYR:HA	2.06	0.44
9:P:24:VAL:HG12	9:P:39:PRO:HB3	1.98	0.44
10:Q:82:ILE:O	12:V:165:VAL:HG21	2.17	0.44
11:R:87:TRP:HA	11:R:90:THR:CG2	2.45	0.44
12:V:73:GLN:HB3	12:V:141:ASN:C	2.25	0.44
12:V:76:PHE:CA	12:V:149:ALA:HB3	2.47	0.44
12:V:112:TYR:HB2	12:V:115:HIS:ND1	2.32	0.44
13:G:132:ILE:CD1	13:G:133:ILE:HG23	2.48	0.44
1:A:122:VAL:HG21	1:A:131:TYR:HD1	1.83	0.44
1:A:271:ARG:HB3	1:A:275:ASP:H	1.83	0.44
1:A:322:PRO:HB2	1:A:358:LEU:HD13	1.99	0.44
2:B:159:TYR:CD2	2:B:164:GLU:HB3	2.53	0.44
3:C:276:ARG:HD2	3:C:280:ASN:ND2	2.33	0.44
3:C:351:ILE:CG2	3:C:353:GLN:HB2	2.44	0.44
4:D:285:LEU:CD2	4:D:289:GLN:HB3	2.42	0.44
4:D:288:HIS:NE2	4:D:289:GLN:HG3	2.32	0.44
5:E:189:TYR:CZ	5:E:195:PRO:HA	2.52	0.44
5:E:285:PHE:CD2	12:V:62:VAL:CB	3.01	0.44
5:E:308:CYS:HA	7:H:207:LEU:CD2	2.40	0.44
5:E:325:ASP:HA	5:E:329:ASN:ND2	2.33	0.44
5:E:330:GLN:HG2	6:F:268:PRO:HG2	1.98	0.44
6:F:72:LEU:CD2	6:F:152:LEU:HD13	2.47	0.44
7:H:43:LEU:O	7:H:46:LEU:HB2	2.17	0.44
8:O:227:LEU:HD11	8:O:277:PHE:HE2	1.82	0.44
8:O:354:ILE:HD11	8:O:368:LEU:HD13	1.98	0.44
8:O:443:LEU:HD11	8:O:480:MET:HE1	2.00	0.44
8:O:483:SER:C	8:O:507:PHE:CE2	2.91	0.44
8:O:554:THR:CG2	11:R:32:LEU:CD1	2.86	0.44
8:O:623:ILE:CD1	8:O:625:HIS:HB3	2.48	0.44
8:O:640:LEU:HD23	11:R:20:LYS:CD	2.36	0.44
8:O:722:ILE:HG22	8:O:726:ILE:HD11	1.98	0.44
12:V:84:VAL:HG12	12:V:86:PRO:HG3	1.99	0.44
13:G:19:ALA:CB	13:G:52:VAL:CG1	2.95	0.44
13:G:28:THR:C	13:G:31:ILE:HG22	2.38	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:G:132:ILE:HD11	13:G:145:LEU:HD11	1.95	0.44
13:G:141:ILE:CG2	13:G:154:VAL:CG2	2.95	0.44
13:G:146:ASP:CB	13:G:151:LEU:HB2	2.47	0.44
1:A:91:TYR:OH	1:A:322:PRO:HD2	2.18	0.44
1:A:142:THR:CB	1:A:160:PRO:HB3	2.48	0.44
1:A:262:GLU:OE2	1:A:285:LEU:HD13	2.18	0.44
1:A:483:GLN:HB3	3:C:382:LYS:HE2	2.00	0.44
2:B:5:GLU:HB3	2:B:9:MET:H	1.83	0.44
2:B:24:SER:CB	8:O:652:LYS:NZ	2.79	0.44
2:B:326:PHE:O	2:B:330:LEU:HG	2.18	0.44
2:B:338:MET:CE	2:B:347:ILE:HG21	2.42	0.44
3:C:39:LEU:HD12	3:C:65:LYS:HG2	2.00	0.44
3:C:286:PHE:HB3	3:C:292:MET:HE1	1.99	0.44
4:D:30:LEU:HG	4:D:34:ILE:HD12	2.00	0.44
4:D:120:TRP:O	4:D:124:ALA:HB3	2.17	0.44
4:D:275:GLY:HA2	4:D:278:LEU:HB3	2.00	0.44
4:D:337:LYS:HZ3	4:D:338:ILE:CD1	2.30	0.44
5:E:59:ALA:CB	6:F:46:LEU:HD13	2.47	0.44
5:E:164:PRO:HA	5:E:187:ARG:HH22	1.82	0.44
5:E:230:LYS:HD3	6:F:203:VAL:HG13	2.00	0.44
5:E:308:CYS:CA	7:H:207:LEU:HD22	2.40	0.44
6:F:132:ASP:O	6:F:136:ILE:HG13	2.18	0.44
6:F:242:VAL:HG11	13:G:171:VAL:HA	2.00	0.44
7:H:122:SER:HA	7:H:164:PRO:HB3	2.00	0.44
7:H:141:VAL:CG2	7:H:160:ARG:HH12	2.30	0.44
7:H:154:GLN:H	7:H:165:ARG:HG2	1.82	0.44
8:O:13:THR:CG2	8:O:45:LEU:HG	2.47	0.44
8:O:16:LYS:HD2	8:O:41:ASP:CA	2.47	0.44
8:O:731:ILE:HG12	8:O:742:SER:O	2.18	0.44
9:P:11:LYS:HG2	9:P:91:GLU:CD	2.37	0.44
12:V:182:ARG:HA	12:V:185:TYR:CE2	2.52	0.44
13:G:15:PHE:CE1	13:G:34:VAL:CG2	2.95	0.44
13:G:35:LEU:HD21	13:G:63:TYR:CE1	2.52	0.44
13:G:99:LEU:CD2	13:G:160:ARG:CD	2.95	0.44
13:G:116:LEU:HD12	13:G:120:LEU:HG	1.98	0.44
1:A:142:THR:HG21	1:A:160:PRO:HG3	1.99	0.44
1:A:241:VAL:HG12	1:A:257:TYR:CE2	2.52	0.44
1:A:484:ARG:HH21	3:C:203:TYR:HA	1.83	0.44
2:B:24:SER:CA	8:O:652:LYS:NZ	2.75	0.44
2:B:132:TYR:HE1	2:B:154:LYS:HE2	1.82	0.44
2:B:214:LEU:HA	2:B:217:LEU:CD1	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:338:MET:O	2:B:344:ARG:HB2	2.18	0.44
2:B:426:LYS:O	2:B:430:GLN:N	2.41	0.44
4:D:71:THR:O	4:D:74:PRO:HD2	2.18	0.44
5:E:54:TYR:CB	5:E:89:THR:HG23	2.48	0.44
5:E:197:ASP:OD1	5:E:198:GLU:N	2.51	0.44
5:E:316:HIS:O	6:F:220:HIS:NE2	2.43	0.44
6:F:71:ALA:HA	6:F:121:PHE:CE1	2.53	0.44
8:O:311:MET:HB3	8:O:364:PHE:HE1	1.83	0.44
8:O:325:ARG:CA	8:O:329:ASN:HB2	2.42	0.44
8:O:547:HIS:HB3	8:O:548:PHE:CD2	2.53	0.44
8:O:688:MET:CE	8:O:730:TYR:HB2	2.47	0.44
13:G:142:GLN:HB2	13:G:155:ASP:HB2	2.00	0.44
13:G:172:LYS:HA	13:G:172:LYS:NZ	2.32	0.44
13:G:207:GLN:HA	13:G:210:GLU:HG3	1.98	0.44
1:A:245:SER:CB	1:A:254:VAL:HG21	2.47	0.44
1:A:426:ALA:HB2	1:A:433:VAL:CG2	2.48	0.44
2:B:100:ARG:NH2	2:B:138:ALA:O	2.49	0.44
2:B:317:ALA:HB3	2:B:325:GLU:CD	2.37	0.44
2:B:422:THR:HA	2:B:425:ASP:CB	2.47	0.44
3:C:41:HIS:HA	3:C:44:THR:OG1	2.17	0.44
3:C:136:ASN:HB3	3:C:161:TYR:HD1	1.82	0.44
3:C:227:TYR:OH	3:C:239:GLN:HG2	2.18	0.44
3:C:367:TYR:CG	3:C:376:ILE:HD11	2.52	0.44
4:D:121:ARG:HB2	4:D:158:ASP:OD1	2.18	0.44
4:D:262:GLY:HA2	4:D:265:GLU:CB	2.48	0.44
4:D:403:GLN:CA	4:D:406:GLN:HB2	2.38	0.44
5:E:33:LYS:HE3	5:E:37:GLN:NE2	2.29	0.44
5:E:49:HIS:HB2	5:E:193:TYR:CD2	2.53	0.44
5:E:203:TYR:HA	5:E:214:PHE:CZ	2.52	0.44
5:E:244:LYS:HZ3	6:F:230:MET:HA	1.77	0.44
6:F:41:VAL:HG11	6:F:73:ILE:HD12	1.99	0.44
6:F:41:VAL:HG12	6:F:74:GLY:N	2.33	0.44
6:F:67:GLN:HA	6:F:127:THR:O	2.17	0.44
6:F:109:GLU:O	6:F:113:LYS:HG2	2.18	0.44
6:F:140:LYS:O	6:F:143:CYS:HB2	2.18	0.44
6:F:202:HIS:CD2	6:F:206:MET:HG2	2.52	0.44
8:O:4:LYS:HE3	8:O:47:VAL:HG21	2.00	0.44
8:O:31:GLU:O	8:O:34:THR:OG1	2.34	0.44
8:O:59:THR:HA	8:O:135:PRO:CD	2.44	0.44
8:O:250:CYS:HB3	8:O:259:TYR:HB2	1.99	0.44
8:O:291:LYS:CA	8:O:294:MET:HB3	2.20	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:347:HIS:O	8:O:351:VAL:HG12	2.18	0.44
8:O:555:TRP:HH2	11:R:29:ALA:HA	1.83	0.44
8:O:618:LEU:HD22	8:O:625:HIS:HE1	1.83	0.44
12:V:131:ASN:OD1	12:V:150:ASN:HB2	2.18	0.44
13:G:69:LEU:HD11	13:G:77:ASP:CB	2.46	0.44
13:G:121:GLU:HG3	13:G:123:ARG:NH2	2.31	0.44
1:A:243:LYS:HA	1:A:246:VAL:HG23	2.00	0.44
2:B:26:SER:C	2:B:28:PRO:HD3	2.37	0.44
2:B:71:ALA:O	2:B:74:GLN:HB2	2.18	0.44
2:B:106:ASN:HA	2:B:109:GLU:HB3	2.00	0.44
2:B:265:TYR:HD2	2:B:273:ARG:HD2	1.81	0.44
3:C:70:SER:C	3:C:74:PHE:HB3	2.38	0.44
3:C:94:ARG:HB3	3:C:97:THR:CG2	2.40	0.44
3:C:179:LYS:HA	3:C:182:LEU:HB2	1.99	0.44
3:C:190:MET:CG	3:C:226:LYS:HE2	2.46	0.44
3:C:196:LYS:HA	3:C:198:PHE:CZ	2.53	0.44
3:C:233:ILE:O	3:C:304:LYS:NZ	2.25	0.44
4:D:169:ASN:HB2	11:R:75:CYS:O	2.18	0.44
4:D:214:LYS:O	4:D:222:ARG:HD3	2.17	0.44
4:D:228:HIS:HA	4:D:231:HIS:CG	2.53	0.44
5:E:244:LYS:HA	6:F:229:LYS:CG	2.39	0.44
5:E:249:THR:OG1	6:F:219:GLU:O	2.21	0.44
8:O:291:LYS:NZ	8:O:294:MET:HG2	2.33	0.44
8:O:564:VAL:CG2	11:R:19:LYS:NZ	2.81	0.44
8:O:571:LYS:HB3	8:O:573:TYR:CG	2.53	0.44
8:O:575:ALA:N	11:R:19:LYS:HE3	2.31	0.44
8:O:618:LEU:HB2	8:O:625:HIS:CE1	2.52	0.44
8:O:744:VAL:CG1	8:O:745:ALA:N	2.81	0.44
9:P:15:PHE:HD2	10:Q:16:TYR:CB	2.05	0.44
9:P:78:ALA:HA	9:P:86:GLU:HB3	1.99	0.44
10:Q:60:TYR:CB	12:V:158:LEU:HD13	2.42	0.44
11:R:100:GLU:CD	11:R:102:GLU:HB3	2.38	0.44
12:V:88:TRP:CH2	12:V:90:ASN:HA	2.52	0.44
13:G:43:PHE:HD2	13:G:67:LEU:CD2	2.31	0.44
13:G:66:LEU:HD12	13:G:69:LEU:HB3	2.00	0.44
13:G:164:LYS:CG	13:G:165:LYS:H	2.31	0.44
1:A:94:LEU:HB3	1:A:98:GLU:OE2	2.17	0.43
1:A:173:LYS:O	1:A:177:LYS:HG3	2.18	0.43
1:A:184:ASP:HA	1:A:187:ASN:ND2	2.28	0.43
1:A:293:GLU:OE1	1:A:296:ALA:HB3	2.18	0.43
1:A:327:ILE:CG2	1:A:331:LEU:HD12	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:500:ILE:HG23	3:C:178:ALA:HB2	1.99	0.43
2:B:109:GLU:HG2	2:B:113:ASN:HD21	1.83	0.43
2:B:264:ASN:O	2:B:267:GLU:HB2	2.18	0.43
2:B:392:CYS:SG	2:B:398:ILE:HD11	2.58	0.43
3:C:121:ILE:HA	3:C:145:LEU:CD1	2.44	0.43
3:C:224:TYR:OH	3:C:257:SER:O	2.36	0.43
3:C:387:ASP:CB	6:F:298:THR:HG23	2.45	0.43
4:D:12:LEU:CD2	4:D:25:LYS:HB3	2.38	0.43
4:D:82:LYS:CA	4:D:113:ILE:HD13	2.44	0.43
4:D:168:ILE:CD1	4:D:190:CYS:HB2	2.48	0.43
4:D:245:MET:HE3	4:D:249:LEU:CD2	2.48	0.43
4:D:275:GLY:HA2	4:D:278:LEU:CD2	2.48	0.43
4:D:342:MET:HA	4:D:345:GLU:CB	2.38	0.43
4:D:395:TRP:CE3	4:D:398:GLN:HG3	2.53	0.43
5:E:69:ALA:HB1	5:E:172:PRO:HB3	2.00	0.43
5:E:124:ALA:C	5:E:129:ARG:HB2	2.38	0.43
6:F:48:ILE:HA	6:F:51:ILE:HD12	2.00	0.43
7:H:44:TYR:O	7:H:48:ASN:N	2.51	0.43
7:H:156:ASP:H	7:H:162:VAL:HG22	1.81	0.43
8:O:250:CYS:HB3	8:O:259:TYR:CD2	2.53	0.43
8:O:301:LEU:HD13	8:O:311:MET:SD	2.58	0.43
8:O:397:ASN:HA	8:O:400:LYS:CE	2.45	0.43
8:O:488:ASN:O	8:O:492:ASN:CG	2.57	0.43
8:O:508:GLN:CB	8:O:559:LEU:CG	2.95	0.43
8:O:525:SER:OG	8:O:604:GLN:HG2	2.17	0.43
8:O:593:THR:OG1	8:O:637:SER:HB3	2.18	0.43
8:O:594:VAL:HG22	8:O:598:GLU:OE1	2.18	0.43
8:O:633:ASP:HB2	8:O:636:SER:HB2	1.99	0.43
8:O:729:GLN:HG3	11:R:55:GLU:HA	2.00	0.43
9:P:11:LYS:HG2	9:P:91:GLU:OE1	2.18	0.43
13:G:15:PHE:CD1	13:G:30:LEU:CD1	2.94	0.43
13:G:100:THR:HG21	13:G:120:LEU:CD2	2.48	0.43
1:A:96:ARG:HD2	1:A:121:PHE:CG	2.53	0.43
1:A:294:LEU:O	1:A:397:HIS:NE2	2.50	0.43
1:A:368:LYS:HE3	1:A:380:MET:HG2	2.00	0.43
1:A:372:SER:OG	1:A:412:GLN:NE2	2.51	0.43
1:A:478:MET:CE	2:B:431:LEU:HB3	2.48	0.43
2:B:357:GLN:HA	2:B:360:ILE:CD1	2.33	0.43
3:C:140:SER:HA	3:C:180:HIS:CE1	2.52	0.43
3:C:142:HIS:HB3	3:C:184:TYR:CD1	2.53	0.43
3:C:380:MET:HG2	3:C:384:ILE:HD12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:53:VAL:HA	4:D:95:ARG:HD3	1.99	0.43
5:E:243:ASN:O	5:E:244:LYS:HD2	2.17	0.43
5:E:299:LYS:O	5:E:302:LYS:HB2	2.17	0.43
7:H:44:TYR:CE2	7:H:56:LEU:HD13	2.53	0.43
7:H:61:PRO:CB	7:H:64:ILE:HD12	2.48	0.43
8:O:85:VAL:HA	8:O:88:HIS:HB3	2.00	0.43
8:O:283:HIS:HB2	8:O:314:GLU:OE1	2.19	0.43
8:O:354:ILE:CD1	8:O:368:LEU:HD13	2.48	0.43
8:O:433:LYS:HA	8:O:433:LYS:HE2	1.98	0.43
8:O:437:ARG:O	8:O:441:LYS:HG3	2.19	0.43
8:O:458:ILE:HG13	8:O:461:LEU:HD12	2.00	0.43
8:O:507:PHE:CD2	8:O:507:PHE:O	2.70	0.43
8:O:508:GLN:HE22	8:O:559:LEU:HA	1.83	0.43
8:O:535:LYS:HA	8:O:538:GLN:CG	2.46	0.43
8:O:596:TYR:HB3	8:O:634:ALA:CA	2.48	0.43
9:P:6:MET:SD	9:P:8:ARG:NH1	2.87	0.43
9:P:99:LEU:CD1	9:P:103:MET:HB3	2.36	0.43
13:G:15:PHE:HA	13:G:18:LEU:HD12	2.00	0.43
13:G:23:SER:N	13:G:26:ALA:HB3	2.29	0.43
13:G:45:GLU:HA	13:G:48:GLU:HG3	2.00	0.43
13:G:66:LEU:HG	13:G:70:PHE:CZ	2.53	0.43
13:G:132:ILE:CG1	13:G:145:LEU:HD21	2.46	0.43
1:A:182:ASP:O	1:A:185:LEU:HB3	2.19	0.43
1:A:247:TYR:HA	1:A:319:LEU:CD2	2.48	0.43
1:A:327:ILE:HG23	1:A:331:LEU:HD12	2.00	0.43
1:A:424:ARG:HH12	1:A:428:ALA:HB2	1.81	0.43
2:B:6:ASP:HB3	2:B:74:GLN:HE22	1.82	0.43
2:B:192:THR:CG2	8:O:459:ASN:HD21	2.25	0.43
2:B:372:PRO:O	2:B:375:SER:HB3	2.19	0.43
2:B:428:THR:HG23	2:B:431:LEU:CD1	2.47	0.43
2:B:431:LEU:HA	2:B:434:LEU:CB	2.48	0.43
3:C:37:LYS:HG3	3:C:41:HIS:CD2	2.53	0.43
3:C:242:PRO:HB2	3:C:245:THR:CG2	2.48	0.43
3:C:283:SER:HA	3:C:286:PHE:HD2	1.84	0.43
4:D:83:GLU:HA	4:D:86:HIS:CD2	2.52	0.43
4:D:201:PHE:CD1	4:D:232:CYS:HA	2.53	0.43
4:D:281:PHE:O	4:D:284:MET:HB2	2.19	0.43
4:D:314:LYS:O	4:D:315:LEU:HD23	2.18	0.43
5:E:138:HIS:CD2	5:E:145:CYS:HB3	2.53	0.43
5:E:179:GLY:HA2	6:F:198:ILE:CD1	2.47	0.43
6:F:57:ARG:HG2	6:F:61:GLN:NE2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:82:GLU:HG3	6:F:189:THR:C	2.38	0.43
7:H:76:SER:O	7:H:80:ARG:HD3	2.17	0.43
8:O:32:ARG:HH12	10:Q:41:LYS:HE3	1.82	0.43
8:O:46:CYS:CB	10:Q:96:TYR:CD2	3.02	0.43
8:O:52:PRO:HB2	8:O:56:ARG:HH22	1.80	0.43
8:O:399:LEU:HB2	8:O:442:ARG:NH2	2.30	0.43
8:O:505:ILE:O	11:R:28:ASN:CA	2.66	0.43
8:O:567:ASN:H	11:R:20:LYS:N	2.15	0.43
8:O:645:SER:O	8:O:646:SER:OG	2.28	0.43
8:O:732:GLU:CB	8:O:744:VAL:CG2	2.94	0.43
9:P:6:MET:N	9:P:73:ALA:O	2.48	0.43
9:P:20:GLU:HG3	9:P:58:GLY:HA2	2.01	0.43
9:P:28:LYS:CG	9:P:44:LEU:CD1	2.96	0.43
9:P:32:GLU:HG3	9:P:36:LYS:C	2.38	0.43
11:R:72:TRP:CZ2	11:R:102:GLU:HG2	2.54	0.43
12:V:177:ARG:O	12:V:177:ARG:HG2	2.19	0.43
13:G:37:ALA:CB	13:G:40:VAL:HB	2.46	0.43
13:G:43:PHE:O	13:G:46:LEU:N	2.50	0.43
13:G:66:LEU:HG	13:G:70:PHE:CE2	2.53	0.43
1:A:88:ALA:HA	1:A:96:ARG:NE	2.32	0.43
1:A:97:ILE:HG13	1:A:121:PHE:CD2	2.51	0.43
1:A:130:MET:SD	1:A:133:GLU:HG2	2.59	0.43
1:A:131:TYR:HE2	1:A:164:THR:HG22	1.80	0.43
2:B:31:ASP:OD1	2:B:32:LEU:N	2.51	0.43
2:B:265:TYR:CE2	2:B:270:SER:HA	2.54	0.43
2:B:280:LEU:HG	2:B:284:ASN:ND2	2.32	0.43
3:C:118:LEU:HD21	7:H:25:LEU:HA	2.01	0.43
3:C:224:TYR:CZ	3:C:260:TYR:HB2	2.53	0.43
3:C:319:LEU:CB	3:C:331:PRO:HA	2.46	0.43
3:C:352:ASN:CB	3:C:357:MET:HB2	2.47	0.43
4:D:73:LEU:HD23	4:D:76:LEU:CD1	2.48	0.43
4:D:101:GLU:HG2	4:D:139:TYR:CZ	2.53	0.43
4:D:125:GLN:O	4:D:128:VAL:HB	2.19	0.43
4:D:210:GLU:HA	4:D:213:TYR:CD2	2.37	0.43
4:D:374:ILE:HG21	6:F:224:GLN:HB3	1.99	0.43
4:D:385:LEU:HD23	6:F:234:ARG:CD	2.48	0.43
5:E:158:ASN:HA	5:E:161:PHE:CB	2.35	0.43
5:E:189:TYR:CE2	5:E:195:PRO:HB3	2.52	0.43
5:E:303:ALA:HA	5:E:306:ASP:OD2	2.18	0.43
5:E:323:ILE:HD11	13:G:188:ILE:HB	2.01	0.43
5:E:332:ASN:N	6:F:268:PRO:HB3	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:70:GLY:HA3	6:F:125:TYR:CD1	2.54	0.43
6:F:143:CYS:HA	6:F:149:PRO:CG	2.46	0.43
7:H:11:PHE:N	7:H:15:LYS:HZ2	2.17	0.43
8:O:132:MET:O	8:O:133:ASN:HB2	2.17	0.43
8:O:168:LYS:HD2	8:O:214:GLU:CG	2.47	0.43
8:O:279:HIS:HB3	8:O:310:HIS:HB3	2.00	0.43
8:O:490:PHE:CD1	8:O:539:MET:HB2	2.38	0.43
8:O:512:LEU:CB	8:O:551:ARG:CB	2.93	0.43
8:O:644:PHE:CE1	8:O:646:SER:HB2	2.54	0.43
8:O:699:LEU:HD22	8:O:699:LEU:C	2.38	0.43
9:P:32:GLU:HA	9:P:36:LYS:N	2.30	0.43
11:R:38:VAL:HB	11:R:39:VAL:HA	2.00	0.43
12:V:60:ARG:HD2	12:V:65:SER:N	2.33	0.43
12:V:72:SER:OG	12:V:113:ARG:NH2	2.51	0.43
1:A:271:ARG:NE	1:A:274:ARG:HH11	2.17	0.43
1:A:273:GLU:CG	1:A:277:GLN:HG3	2.48	0.43
1:A:470:THR:O	1:A:473:GLU:HB2	2.19	0.43
2:B:14:GLU:OE1	2:B:67:TRP:NE1	2.48	0.43
2:B:47:PRO:HD3	2:B:82:LEU:HD12	2.00	0.43
2:B:384:ASP:O	2:B:388:LEU:HD23	2.18	0.43
2:B:438:VAL:HG11	6:F:302:MET:SD	2.58	0.43
3:C:101:ALA:HB2	3:C:175:ALA:CB	2.48	0.43
4:D:45:LEU:HB3	4:D:69:PHE:CE1	2.54	0.43
4:D:52:MET:SD	4:D:65:LEU:HB2	2.57	0.43
4:D:367:LEU:HD23	6:F:275:PHE:CE1	2.53	0.43
5:E:238:LEU:CD2	6:F:200:VAL:HG22	2.48	0.43
6:F:73:ILE:HG12	6:F:85:ASN:O	2.17	0.43
6:F:249:GLU:CB	6:F:250:VAL:N	2.75	0.43
7:H:60:ILE:HB	7:H:65:LYS:HE2	2.00	0.43
7:H:68:ASN:O	7:H:71:LEU:HB3	2.18	0.43
8:O:22:LYS:HA	8:O:25:VAL:HG22	1.99	0.43
8:O:98:ALA:CB	8:O:140:GLY:HA2	2.45	0.43
8:O:344:LEU:HD11	8:O:418:PHE:HE1	1.82	0.43
8:O:499:THR:C	8:O:500:VAL:CG2	2.84	0.43
8:O:660:ASP:HA	8:O:663:GLN:HB2	2.01	0.43
8:O:727:ASP:HB2	11:R:54:ILE:HB	1.56	0.43
9:P:11:LYS:HZ3	10:Q:14:LYS:NZ	1.83	0.43
9:P:57:LEU:HD23	9:P:60:CYS:SG	2.58	0.43
10:Q:84:THR:HG23	12:V:169:LEU:CD1	2.47	0.43
13:G:15:PHE:CD1	13:G:30:LEU:HD12	2.52	0.43
13:G:103:SER:O	13:G:106:SER:HB3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:95:MET:HA	1:A:98:GLU:CB	2.41	0.43
1:A:451:ALA:HB2	1:A:462:ALA:HA	2.00	0.43
2:B:18:LEU:CD2	8:O:648:ARG:CD	2.83	0.43
2:B:100:ARG:CZ	2:B:141:ASP:HB2	2.48	0.43
2:B:139:LEU:HD22	2:B:147:LEU:CD1	2.49	0.43
2:B:312:THR:O	2:B:315:VAL:HG22	2.19	0.43
3:C:35:LEU:H	3:C:39:LEU:HD11	1.84	0.43
3:C:138:LEU:N	3:C:169:ILE:HG23	2.34	0.43
3:C:387:ASP:HB2	6:F:298:THR:CG2	2.44	0.43
4:D:30:LEU:HG	4:D:34:ILE:HD11	2.00	0.43
4:D:100:GLU:HB3	4:D:137:LYS:HG2	2.00	0.43
4:D:281:PHE:O	4:D:285:LEU:HG	2.19	0.43
4:D:355:ILE:H	4:D:355:ILE:HD12	1.83	0.43
5:E:45:TRP:CD1	5:E:46:THR:HG23	2.54	0.43
5:E:170:ILE:HD11	5:E:183:LEU:CD1	2.47	0.43
5:E:173:THR:CA	5:E:176:ILE:HD12	2.38	0.43
5:E:187:ARG:HG3	5:E:224:LEU:CD1	2.48	0.43
5:E:194:LYS:O	5:E:196:PRO:HD3	2.19	0.43
5:E:217:HIS:HD1	5:E:220:GLN:CD	2.22	0.43
5:E:244:LYS:HE3	6:F:230:MET:C	2.38	0.43
7:H:156:ASP:CB	7:H:162:VAL:HA	2.49	0.43
8:O:325:ARG:O	8:O:329:ASN:HB2	2.18	0.43
8:O:385:CYS:CB	8:O:427:ASP:HB3	2.48	0.43
8:O:479:ASP:O	8:O:483:SER:OG	2.14	0.43
8:O:512:LEU:CG	11:R:32:LEU:HB3	2.48	0.43
8:O:573:TYR:HB3	8:O:650:LYS:CB	2.43	0.43
8:O:623:ILE:C	8:O:641:ASN:HB2	2.39	0.43
9:P:28:LYS:O	9:P:30:ILE:CA	2.34	0.43
9:P:71:ALA:HA	10:Q:59:GLU:HG2	2.00	0.43
11:R:81:PHE:CA	11:R:102:GLU:HA	2.45	0.43
12:V:116:LEU:HD23	12:V:201:LEU:HB2	2.00	0.43
13:G:22:THR:HG21	13:G:30:LEU:HB2	2.00	0.43
13:G:140:ILE:HD13	13:G:140:ILE:C	2.38	0.43
1:A:206:ASP:OD1	1:A:221:TYR:OH	2.37	0.43
1:A:463:ARG:HE	1:A:465:VAL:HA	1.84	0.43
2:B:194:LEU:HG	2:B:198:TYR:CZ	2.53	0.43
2:B:198:TYR:HB3	2:B:218:TYR:CZ	2.54	0.43
2:B:438:VAL:CG1	6:F:306:VAL:HG21	2.49	0.43
3:C:13:ARG:HG2	3:C:49:LEU:CD1	2.48	0.43
3:C:79:SER:O	3:C:83:LEU:N	2.48	0.43
3:C:307:ILE:HG13	3:C:326:VAL:HG11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:321:ASP:HB3	3:C:325:ARG:NH1	2.34	0.43
3:C:391:LYS:HG2	6:F:301:THR:HG21	1.99	0.43
4:D:201:PHE:HD1	4:D:232:CYS:HA	1.83	0.43
4:D:223:LEU:HG	4:D:226:LEU:HD23	2.00	0.43
4:D:374:ILE:HG22	4:D:375:GLN:N	2.33	0.43
5:E:25:ILE:HD12	5:E:232:SER:HB3	1.99	0.43
5:E:183:LEU:HD22	5:E:226:VAL:CG2	2.44	0.43
5:E:209:ASN:OD1	5:E:210:LYS:HG2	2.19	0.43
5:E:332:ASN:HD21	13:G:179:ASP:HB3	1.81	0.43
6:F:83:VAL:HG21	6:F:150:LEU:HD21	2.01	0.43
6:F:245:SER:HB3	6:F:253:ASN:CB	2.48	0.43
7:H:139:LEU:HD22	7:H:143:GLU:HG2	2.00	0.43
8:O:20:THR:O	8:O:23:ALA:HB3	2.19	0.43
8:O:34:THR:HA	8:O:37:ASP:HB3	2.01	0.43
8:O:101:MET:CE	8:O:139:ILE:HD11	2.48	0.43
8:O:395:CYS:O	8:O:399:LEU:N	2.50	0.43
8:O:412:GLU:OE2	8:O:453:SER:HB3	2.18	0.43
8:O:462:LYS:HA	8:O:466:GLY:O	2.19	0.43
8:O:508:GLN:HB3	8:O:559:LEU:CB	2.48	0.43
8:O:537:VAL:HG23	8:O:553:LEU:HD12	2.00	0.43
8:O:676:ARG:NH2	8:O:710:ARG:CA	2.80	0.43
9:P:51:LEU:HD23	9:P:55:LYS:NZ	2.33	0.43
12:V:87:VAL:HG22	12:V:97:PRO:HA	1.99	0.43
13:G:66:LEU:CD2	13:G:88:LEU:HD21	2.48	0.43
13:G:76:PRO:HA	13:G:79:ILE:HG12	2.01	0.43
13:G:128:LEU:HD23	13:G:128:LEU:C	2.38	0.43
13:G:136:VAL:HG12	13:G:141:ILE:CB	2.41	0.43
13:G:141:ILE:CG2	13:G:142:GLN:N	2.81	0.43
1:A:251:TRP:CE3	1:A:288:ALA:HA	2.54	0.43
1:A:326:ALA:O	1:A:352:PHE:HZ	2.01	0.43
1:A:397:HIS:O	1:A:401:LEU:HG	2.18	0.43
1:A:504:SER:CA	3:C:215:ALA:HB2	2.44	0.43
2:B:211:ASN:O	2:B:214:LEU:HB2	2.19	0.43
2:B:310:ALA:HA	2:B:313:ASN:HD22	1.83	0.43
2:B:314:LEU:HD21	2:B:329:ILE:HD13	2.00	0.43
2:B:323:ILE:CD1	2:B:355:ARG:HA	2.47	0.43
2:B:390:VAL:CA	2:B:393:ILE:HG12	2.48	0.43
3:C:72:PRO:HA	3:C:74:PHE:CD1	2.54	0.43
3:C:94:ARG:CD	3:C:131:MET:HE2	2.47	0.43
3:C:138:LEU:HD22	3:C:176:TYR:CE1	2.54	0.43
3:C:191:ILE:HG22	3:C:195:LEU:HG	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:233:ILE:HD13	3:C:297:GLN:HB3	1.99	0.43
4:D:140:ASN:O	4:D:144:LYS:HG3	2.19	0.43
4:D:153:ARG:O	4:D:157:GLU:HG2	2.19	0.43
4:D:280:GLU:O	4:D:284:MET:HG3	2.18	0.43
4:D:318:ASN:OD1	13:G:147:GLN:CB	2.67	0.43
5:E:59:ALA:HB3	6:F:46:LEU:CD1	2.48	0.43
5:E:63:LEU:CA	6:F:44:HIS:HB2	2.49	0.43
5:E:239:GLU:HG2	5:E:243:ASN:HD21	1.83	0.43
5:E:246:TRP:CH2	5:E:247:VAL:HG22	2.53	0.43
5:E:274:GLU:HA	5:E:277:GLU:CB	2.47	0.43
5:E:274:GLU:HG3	5:E:277:GLU:HB3	1.99	0.43
6:F:109:GLU:HB2	6:F:113:LYS:HE2	2.00	0.43
6:F:196:GLU:O	6:F:200:VAL:HG23	2.19	0.43
6:F:266:CYS:O	6:F:269:VAL:HG22	2.19	0.43
6:F:309:PHE:CE2	6:F:314:ASP:HB2	2.53	0.43
7:H:50:MET:HB3	7:H:82:TRP:CE3	2.54	0.43
7:H:77:VAL:HG22	7:H:92:THR:CB	2.49	0.43
7:H:121:VAL:CG1	7:H:128:ILE:HG21	2.44	0.43
8:O:20:THR:OG1	8:O:38:ARG:HD3	2.19	0.43
8:O:62:LYS:HZ2	8:O:130:VAL:HB	1.84	0.43
8:O:211:PHE:HE1	8:O:253:TYR:HE2	1.66	0.43
8:O:395:CYS:HB3	8:O:435:TYR:OH	2.18	0.43
8:O:538:GLN:HG3	8:O:539:MET:CE	2.48	0.43
8:O:575:ALA:HB2	8:O:650:LYS:CG	2.27	0.43
12:V:146:PRO:CD	12:V:148:PHE:CG	2.99	0.43
13:G:138:THR:HG23	13:G:140:ILE:N	2.34	0.43
13:G:206:GLN:O	13:G:210:GLU:HG3	2.19	0.43
1:A:198:ARG:HB2	1:A:227:TYR:HB2	2.01	0.43
1:A:201:HIS:HB3	1:A:220:CYS:O	2.19	0.43
1:A:300:LYS:HA	1:A:337:PHE:CE1	2.54	0.43
1:A:394:LEU:O	1:A:398:VAL:HB	2.19	0.43
1:A:502:VAL:O	3:C:214:MET:N	2.51	0.43
2:B:27:GLU:OE2	2:B:64:LYS:CG	2.56	0.43
2:B:58:LEU:HD13	2:B:72:LEU:CD2	2.45	0.43
2:B:76:ILE:CD1	2:B:88:MET:HG2	2.49	0.43
2:B:76:ILE:CA	2:B:88:MET:HG2	2.47	0.43
2:B:77:LYS:HG3	2:B:80:PHE:CZ	2.53	0.43
2:B:258:PHE:HB2	2:B:280:LEU:HD13	2.01	0.43
3:C:136:ASN:CG	3:C:161:TYR:HA	2.38	0.43
3:C:262:GLU:O	3:C:266:VAL:HG23	2.18	0.43
3:C:284:GLU:HB3	3:C:288:ARG:HH21	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:341:MET:HB3	3:C:347:ILE:HG22	1.99	0.43
4:D:122:ASN:HA	4:D:125:GLN:CD	2.38	0.43
4:D:233:THR:O	4:D:242:ARG:HG3	2.18	0.43
4:D:306:GLU:HA	4:D:328:LEU:HD22	1.99	0.43
4:D:406:GLN:NE2	6:F:240:GLU:OE2	2.51	0.43
5:E:70:ARG:NH1	5:E:176:ILE:HD13	2.34	0.43
5:E:252:SER:N	5:E:324:LYS:HD3	2.34	0.43
6:F:217:VAL:O	6:F:220:HIS:HB2	2.19	0.43
7:H:37:TYR:CZ	7:H:61:PRO:HD2	2.54	0.43
7:H:38:GLY:H	7:H:68:ASN:HD22	1.67	0.43
8:O:79:SER:O	8:O:83:VAL:HG12	2.19	0.43
8:O:167:ILE:HA	8:O:249:ARG:HD3	2.01	0.43
8:O:250:CYS:HB3	8:O:259:TYR:CG	2.54	0.43
8:O:278:LEU:CD2	8:O:301:LEU:HD21	2.49	0.43
8:O:725:LEU:HD22	8:O:730:TYR:HD2	1.82	0.43
9:P:98:GLU:C	10:Q:85:GLU:HB2	2.39	0.43
13:G:28:THR:CA	13:G:31:ILE:HG22	2.49	0.43
13:G:111:ILE:O	13:G:151:LEU:HA	2.19	0.43
13:G:133:ILE:O	13:G:137:TYR:HB2	2.19	0.43
1:A:194:LYS:CA	1:A:227:TYR:HB3	2.49	0.43
1:A:387:ASN:OD1	1:A:390:LEU:HB2	2.19	0.43
2:B:169:GLN:HG3	2:B:173:ARG:NE	2.34	0.43
2:B:418:GLY:O	2:B:421:TYR:HB2	2.19	0.43
3:C:92:HIS:HB3	3:C:95:TYR:CE2	2.53	0.43
3:C:94:ARG:HD3	3:C:94:ARG:N	2.34	0.43
3:C:97:THR:OG1	3:C:98:ASP:N	2.52	0.43
3:C:125:LYS:HA	3:C:128:ILE:CD1	2.46	0.43
3:C:286:PHE:HE1	3:C:295:VAL:N	2.16	0.43
3:C:317:LEU:HD23	3:C:322:MET:CE	2.31	0.43
4:D:133:GLU:CD	4:D:144:LYS:HD3	2.39	0.43
4:D:292:THR:HB	4:D:296:GLY:O	2.19	0.43
4:D:338:ILE:HA	4:D:341:GLN:CD	2.39	0.43
5:E:251:SER:HA	6:F:224:GLN:HB2	1.91	0.43
7:H:38:GLY:CA	7:H:71:LEU:HD13	2.45	0.43
7:H:98:TRP:CB	7:H:102:VAL:HB	2.44	0.43
7:H:128:ILE:HD11	7:H:132:ASP:HB2	2.00	0.43
8:O:130:VAL:HG23	8:O:145:ASP:HB3	2.01	0.43
8:O:166:GLU:HB3	8:O:175:ASP:CA	2.48	0.43
8:O:236:MET:CE	8:O:296:ASN:HB3	2.49	0.43
8:O:417:SER:HA	8:O:420:THR:HB	1.99	0.43
8:O:734:SER:HB2	8:O:741:TYR:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:744:VAL:HG12	8:O:745:ALA:N	2.32	0.43
12:V:182:ARG:H	12:V:182:ARG:HD3	1.83	0.43
13:G:22:THR:O	13:G:55:LEU:HD11	2.19	0.43
13:G:98:HIS:HA	13:G:101:ILE:CG1	2.40	0.43
13:G:110:CYS:HA	13:G:152:LEU:O	2.19	0.43
1:A:194:LYS:CD	1:A:229:THR:HG23	2.49	0.42
1:A:245:SER:CB	1:A:250:ASN:HB2	2.43	0.42
2:B:30:VAL:O	2:B:33:GLU:N	2.49	0.42
2:B:136:LEU:O	2:B:148:TRP:HZ3	2.02	0.42
2:B:154:LYS:O	2:B:157:LYS:HB2	2.19	0.42
2:B:311:MET:SD	2:B:314:LEU:HD12	2.59	0.42
3:C:138:LEU:HD23	3:C:139:THR:O	2.18	0.42
3:C:159:LEU:HD21	3:C:195:LEU:CD1	2.47	0.42
3:C:190:MET:O	3:C:193:THR:HB	2.19	0.42
4:D:19:HIS:HE1	4:D:60:VAL:HB	1.83	0.42
4:D:208:TYR:HA	4:D:211:LEU:HD12	2.01	0.42
4:D:370:TRP:O	4:D:374:ILE:HG13	2.19	0.42
5:E:34:LYS:O	5:E:38:GLU:HG3	2.19	0.42
5:E:63:LEU:HD13	6:F:47:VAL:HG22	2.00	0.42
5:E:63:LEU:HD13	6:F:47:VAL:CG2	2.49	0.42
5:E:158:ASN:HA	5:E:161:PHE:CD2	2.54	0.42
5:E:329:ASN:O	6:F:271:SER:HB3	2.18	0.42
6:F:57:ARG:HD3	6:F:88:GLU:CD	2.39	0.42
7:H:154:GLN:O	7:H:163:LEU:N	2.38	0.42
8:O:140:GLY:O	8:O:144:LEU:HG	2.19	0.42
8:O:233:SER:HA	8:O:293:ASP:OD1	2.19	0.42
8:O:373:THR:CA	8:O:376:VAL:HB	2.48	0.42
8:O:512:LEU:O	11:R:34:ALA:HB2	2.18	0.42
8:O:554:THR:O	11:R:30:VAL:O	2.37	0.42
8:O:569:LEU:HG	11:R:19:LYS:N	2.32	0.42
8:O:633:ASP:HB3	8:O:635:GLU:CB	2.44	0.42
8:O:660:ASP:C	8:O:663:GLN:N	2.65	0.42
9:P:20:GLU:OE1	9:P:63:THR:HA	2.18	0.42
9:P:43:ARG:HH21	9:P:88:LEU:N	2.16	0.42
11:R:50:MET:CE	11:R:70:VAL:HB	2.38	0.42
12:V:136:PHE:HZ	12:V:147:ILE:HG23	1.84	0.42
13:G:44:GLY:CA	13:G:162:ILE:CD1	2.93	0.42
13:G:122:MET:HE2	13:G:131:LEU:CD1	2.35	0.42
13:G:130:ASP:O	13:G:134:GLU:HG2	2.19	0.42
1:A:105:ASP:HA	1:A:111:ARG:NE	2.33	0.42
1:A:303:ALA:HB3	1:A:337:PHE:CZ	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:453:VAL:HG13	1:A:459:ILE:O	2.19	0.42
2:B:14:GLU:CG	2:B:67:TRP:HE1	2.30	0.42
2:B:322:ASP:HB3	2:B:325:GLU:CG	2.49	0.42
3:C:51:VAL:HG12	3:C:51:VAL:O	2.19	0.42
3:C:138:LEU:HB2	3:C:166:MET:SD	2.59	0.42
3:C:258:ASN:HA	3:C:261:HIS:CD2	2.55	0.42
4:D:55:GLU:HA	4:D:59:LEU:CD2	2.29	0.42
4:D:133:GLU:CG	4:D:144:LYS:HD3	2.49	0.42
4:D:288:HIS:CD2	4:D:289:GLN:HG3	2.54	0.42
4:D:308:ASN:O	4:D:309:LEU:HD23	2.19	0.42
5:E:36:GLN:OE1	5:E:84:LYS:HB2	2.19	0.42
5:E:59:ALA:N	6:F:46:LEU:HD13	2.29	0.42
5:E:77:VAL:CG1	5:E:98:LEU:HB2	2.49	0.42
5:E:195:PRO:HG3	5:E:219:LYS:O	2.19	0.42
5:E:276:SER:O	5:E:280:LEU:N	2.52	0.42
5:E:276:SER:HA	5:E:298:ASP:OD1	2.19	0.42
5:E:285:PHE:CZ	12:V:62:VAL:CG2	2.78	0.42
5:E:289:LEU:C	5:E:291:THR:H	2.23	0.42
5:E:326:LYS:CA	13:G:184:VAL:CG1	2.65	0.42
5:E:332:ASN:HB2	13:G:176:GLU:C	2.23	0.42
6:F:312:LEU:C	6:F:315:ARG:HH12	2.22	0.42
8:O:231:ASN:O	8:O:233:SER:N	2.52	0.42
8:O:255:HIS:HD2	8:O:258:SER:H	1.68	0.42
9:P:43:ARG:HB3	9:P:78:ALA:CB	2.25	0.42
9:P:94:SER:O	10:Q:52:HIS:HB3	2.19	0.42
13:G:132:ILE:HD12	13:G:132:ILE:C	2.39	0.42
1:A:205:GLY:HA3	1:A:221:TYR:HE2	1.84	0.42
1:A:305:CYS:HA	1:A:308:LEU:CD1	2.35	0.42
1:A:307:LEU:HD23	1:A:352:PHE:CB	2.49	0.42
2:B:241:GLY:HA2	2:B:244:MET:CB	2.48	0.42
2:B:347:ILE:HG23	2:B:348:GLU:N	2.34	0.42
3:C:39:LEU:CD1	3:C:65:LYS:HG2	2.49	0.42
3:C:84:PHE:CZ	3:C:89:ASN:HA	2.53	0.42
3:C:323:ALA:HA	3:C:328:LEU:N	2.34	0.42
3:C:348:PHE:CB	3:C:362:ASP:H	2.32	0.42
4:D:36:LEU:HD22	4:D:40:GLU:CG	2.47	0.42
4:D:321:PHE:HA	4:D:336:GLU:CD	2.40	0.42
4:D:367:LEU:CA	4:D:370:TRP:HB3	2.44	0.42
5:E:170:ILE:HD11	5:E:183:LEU:CB	2.49	0.42
5:E:200:PRO:HG2	5:E:223:ALA:HB3	2.00	0.42
5:E:332:ASN:HB2	13:G:177:TRP:CA	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:124:TRP:CE2	6:F:138:VAL:HB	2.54	0.42
6:F:188:TYR:HD2	6:F:189:THR:O	2.01	0.42
6:F:239:LEU:O	6:F:243:LYS:HG3	2.18	0.42
8:O:6:ARG:HD2	12:V:182:ARG:CD	2.48	0.42
8:O:278:LEU:HD22	8:O:301:LEU:CD2	2.47	0.42
8:O:569:LEU:HD11	11:R:19:LYS:CB	2.47	0.42
8:O:727:ASP:OD2	11:R:47:ASN:N	2.43	0.42
9:P:44:LEU:HD23	9:P:76:GLY:O	2.19	0.42
11:R:50:MET:SD	11:R:52:LEU:HD21	2.60	0.42
1:A:95:MET:HE2	1:A:249:GLN:HG2	2.01	0.42
2:B:76:ILE:HD13	2:B:91:ARG:HB2	2.01	0.42
2:B:297:GLN:CG	11:R:67:GLU:HG3	2.40	0.42
2:B:316:SER:O	2:B:319:GLN:HB3	2.19	0.42
2:B:368:ARG:HB3	2:B:410:GLU:HA	2.01	0.42
3:C:12:VAL:CG1	3:C:24:LEU:HD21	2.38	0.42
3:C:279:VAL:HA	3:C:286:PHE:HE2	1.82	0.42
4:D:1:MET:HA	4:D:36:LEU:CD2	2.47	0.42
4:D:38:GLY:O	4:D:42:LEU:N	2.34	0.42
4:D:60:VAL:HG22	4:D:63:ARG:NE	2.34	0.42
4:D:102:GLN:O	4:D:106:ILE:HG13	2.19	0.42
4:D:311:SER:O	4:D:314:LYS:HE3	2.18	0.42
5:E:57:ILE:HD12	5:E:226:VAL:HG13	2.02	0.42
5:E:318:LEU:HG	7:H:200:LEU:HD11	2.01	0.42
5:E:325:ASP:CB	5:E:329:ASN:HD22	2.32	0.42
7:H:65:LYS:O	7:H:68:ASN:N	2.49	0.42
8:O:569:LEU:HB2	11:R:18:LYS:CG	2.50	0.42
8:O:733:ARG:HA	8:O:741:TYR:HB3	2.02	0.42
9:P:32:GLU:CG	9:P:36:LYS:HA	2.48	0.42
11:R:81:PHE:CD1	11:R:102:GLU:HA	2.53	0.42
12:V:72:SER:HB2	12:V:113:ARG:NH1	2.35	0.42
12:V:72:SER:O	12:V:140:LEU:HB2	2.20	0.42
13:G:138:THR:CG2	13:G:140:ILE:HB	2.49	0.42
1:A:185:LEU:O	1:A:189:LYS:HG3	2.20	0.42
1:A:273:GLU:HG3	1:A:281:ILE:CD1	2.43	0.42
1:A:360:PRO:HA	1:A:363:ARG:NH2	2.34	0.42
1:A:458:LYS:HB2	1:A:458:LYS:HE2	1.89	0.42
2:B:442:LEU:HB2	6:F:309:PHE:CE2	2.53	0.42
3:C:34:LEU:HA	3:C:64:VAL:CG1	2.49	0.42
3:C:158:ALA:C	3:C:162:LEU:HG	2.39	0.42
3:C:262:GLU:HG2	3:C:278:LEU:HD22	2.01	0.42
4:D:385:LEU:HD23	6:F:234:ARG:HD3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:385:LEU:CD2	6:F:234:ARG:HA	2.47	0.42
5:E:28:ILE:HD13	5:E:229:PHE:CB	2.49	0.42
5:E:185:ALA:O	5:E:223:ALA:HA	2.19	0.42
5:E:269:LEU:HA	5:E:272:LYS:CB	2.50	0.42
6:F:35:VAL:H	6:F:170:SER:C	2.23	0.42
6:F:138:VAL:HA	6:F:141:GLN:CD	2.40	0.42
6:F:154:LEU:HD23	6:F:155:ASN:N	2.34	0.42
7:H:17:LEU:HD21	7:H:44:TYR:CD1	2.54	0.42
7:H:20:CYS:C	7:H:40:LEU:HD21	2.40	0.42
7:H:37:TYR:HB2	7:H:71:LEU:HD22	2.01	0.42
7:H:80:ARG:O	7:H:83:GLN:N	2.52	0.42
7:H:130:ALA:HB3	7:H:141:VAL:HG13	2.00	0.42
7:H:147:GLY:O	7:H:150:GLU:HG2	2.18	0.42
8:O:32:ARG:CZ	10:Q:38:ARG:C	2.86	0.42
8:O:243:LEU:HD13	8:O:267:GLN:CB	2.49	0.42
8:O:723:GLU:O	11:R:45:CYS:C	2.58	0.42
11:R:21:ARG:O	11:R:22:PHE:HB2	2.19	0.42
13:G:49:LEU:HB2	13:G:52:VAL:HG22	2.01	0.42
13:G:129:GLU:O	13:G:133:ILE:HG23	2.20	0.42
1:A:135:HIS:HA	1:A:162:LEU:CB	2.50	0.42
1:A:338:ASP:O	1:A:342:LEU:HG	2.19	0.42
1:A:441:THR:O	1:A:444:ILE:HB	2.19	0.42
1:A:485:ARG:O	1:A:489:MET:HG3	2.18	0.42
2:B:21:SER:C	8:O:652:LYS:CG	2.85	0.42
2:B:146:ARG:HG3	2:B:193:GLN:NE2	2.35	0.42
2:B:198:TYR:CE2	2:B:224:ILE:HD11	2.53	0.42
2:B:442:LEU:CD2	6:F:309:PHE:CZ	3.02	0.42
3:C:89:ASN:O	3:C:93:ILE:HD13	2.19	0.42
3:C:112:VAL:HG22	3:C:151:LEU:CD1	2.49	0.42
3:C:129:ASP:HA	3:C:132:GLN:HG3	2.02	0.42
3:C:189:GLY:HA2	3:C:201:ALA:CB	2.50	0.42
4:D:165:GLU:HA	4:D:168:ILE:HG22	2.02	0.42
4:D:268:TYR:CE2	4:D:269:LEU:HG	2.54	0.42
4:D:281:PHE:HA	4:D:284:MET:CB	2.43	0.42
5:E:60:LEU:HA	5:E:63:LEU:HG	2.01	0.42
5:E:190:PRO:HD2	5:E:193:TYR:HB3	2.01	0.42
5:E:244:LYS:O	6:F:229:LYS:HB3	2.20	0.42
6:F:69:ILE:CG2	6:F:100:ILE:HD11	2.49	0.42
7:H:122:SER:OG	7:H:123:GLN:N	2.52	0.42
8:O:182:HIS:CE1	8:O:254:LEU:HG	2.55	0.42
8:O:243:LEU:HD13	8:O:267:GLN:HB3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:620:VAL:HG13	8:O:644:PHE:CD1	2.55	0.42
8:O:644:PHE:CE2	8:O:650:LYS:HA	2.54	0.42
11:R:38:VAL:H	11:R:39:VAL:HA	1.85	0.42
13:G:134:GLU:HA	13:G:134:GLU:OE1	2.20	0.42
13:G:171:VAL:CG1	13:G:172:LYS:N	2.83	0.42
1:A:94:LEU:HB2	1:A:247:TYR:C	2.40	0.42
1:A:375:ALA:HB2	1:A:429:PHE:O	2.19	0.42
1:A:451:ALA:HB1	1:A:460:LEU:HD11	2.01	0.42
2:B:37:TYR:HD1	2:B:53:SER:HA	1.84	0.42
2:B:57:VAL:HG11	2:B:71:ALA:CB	2.50	0.42
3:C:135:THR:CB	3:C:167:MET:H	2.30	0.42
3:C:224:TYR:HH	3:C:257:SER:HB2	1.83	0.42
3:C:228:ILE:HG22	3:C:263:LEU:HD23	2.01	0.42
3:C:229:LEU:O	3:C:233:ILE:HB	2.19	0.42
3:C:266:VAL:HA	3:C:269:THR:HG23	2.02	0.42
3:C:310:LEU:CD1	3:C:326:VAL:HG23	2.50	0.42
4:D:96:VAL:HG13	4:D:97:ILE:N	2.34	0.42
4:D:127:LEU:HA	4:D:130:ILE:HD11	2.01	0.42
4:D:166:ALA:HA	11:R:75:CYS:HA	2.01	0.42
4:D:168:ILE:HD13	4:D:190:CYS:CB	2.50	0.42
5:E:64:LYS:HZ1	6:F:44:HIS:CE1	2.37	0.42
6:F:43:LEU:CB	6:F:191:ALA:HB2	2.47	0.42
6:F:73:ILE:HD11	6:F:85:ASN:HB3	2.02	0.42
7:H:60:ILE:HG23	7:H:61:PRO:HD2	2.01	0.42
8:O:32:ARG:CG	10:Q:38:ARG:O	2.68	0.42
8:O:285:ILE:CG1	8:O:290:LYS:HB2	2.49	0.42
8:O:382:LYS:O	8:O:384:VAL:HG23	2.19	0.42
8:O:482:VAL:HG12	8:O:482:VAL:O	2.20	0.42
8:O:507:PHE:O	8:O:509:ILE:HG22	2.20	0.42
8:O:569:LEU:HD12	11:R:18:LYS:HA	2.02	0.42
8:O:569:LEU:HD22	8:O:571:LYS:NZ	2.34	0.42
8:O:692:LYS:HB3	8:O:743:TYR:CB	2.49	0.42
11:R:67:GLU:CA	11:R:70:VAL:HG12	2.50	0.42
12:V:82:ARG:NH1	12:V:153:LEU:HD11	2.34	0.42
12:V:146:PRO:CA	12:V:147:ILE:C	2.46	0.42
12:V:170:VAL:HG11	12:V:178:LEU:CD2	2.49	0.42
12:V:178:LEU:HB2	12:V:185:TYR:CD1	2.55	0.42
13:G:23:SER:C	13:G:27:LEU:HB2	2.39	0.42
13:G:43:PHE:HD2	13:G:67:LEU:HD22	1.84	0.42
13:G:45:GLU:O	13:G:48:GLU:HB2	2.20	0.42
13:G:75:TYR:CD2	13:G:120:LEU:HA	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:G:100:THR:HG21	13:G:120:LEU:HD21	2.01	0.42
13:G:179:ASP:C	13:G:182:GLU:HG2	2.39	0.42
1:A:385:LYS:CA	1:A:388:LEU:HD12	2.47	0.42
2:B:218:TYR:O	2:B:221:SER:OG	2.20	0.42
3:C:121:ILE:HD13	3:C:157:PRO:HB2	2.01	0.42
3:C:139:THR:HG22	3:C:142:HIS:HE1	1.80	0.42
3:C:222:GLU:HA	3:C:225:LYS:CB	2.50	0.42
4:D:247:ALA:HA	4:D:268:TYR:HD1	1.84	0.42
4:D:266:LYS:HE3	4:D:277:GLN:OE1	2.20	0.42
4:D:381:VAL:CG2	6:F:263:LEU:HD13	2.50	0.42
5:E:63:LEU:HD21	6:F:47:VAL:H	1.85	0.42
5:E:69:ALA:HB3	5:E:172:PRO:HB3	2.02	0.42
5:E:121:ILE:HA	5:E:124:ALA:HB3	2.02	0.42
5:E:121:ILE:HD13	5:E:133:ALA:N	2.35	0.42
5:E:293:ASP:HB3	5:E:295:LYS:HG2	1.78	0.42
5:E:310:THR:HG23	5:E:313:GLU:OE2	2.19	0.42
6:F:43:LEU:HD13	6:F:84:MET:C	2.40	0.42
6:F:238:ILE:O	6:F:242:VAL:HG23	2.20	0.42
7:H:39:GLN:HE21	7:H:101:THR:HA	1.85	0.42
8:O:65:LEU:CD1	8:O:142:LEU:HG	2.50	0.42
8:O:149:LYS:HA	8:O:152:VAL:CB	2.44	0.42
8:O:186:ASN:O	8:O:190:HIS:HB2	2.19	0.42
8:O:226:LEU:CB	8:O:235:TYR:HD1	2.33	0.42
8:O:379:ARG:HG2	8:O:384:VAL:HG13	2.02	0.42
8:O:539:MET:O	8:O:542:LEU:HB3	2.20	0.42
9:P:1:MET:HB3	9:P:20:GLU:CB	2.47	0.42
9:P:13:THR:O	10:Q:16:TYR:O	2.33	0.42
11:R:40:ASP:CB	11:R:77:HIS:HD1	2.27	0.42
11:R:43:ALA:HB1	11:R:96:LEU:CG	2.50	0.42
13:G:38:PRO:HA	13:G:41:TYR:CZ	2.55	0.42
13:G:79:ILE:HD12	13:G:121:GLU:HB2	2.01	0.42
1:A:111:ARG:O	1:A:115:LEU:HB2	2.20	0.42
1:A:303:ALA:CA	1:A:306:LEU:HD12	2.49	0.42
1:A:393:TYR:C	1:A:396:PRO:HD2	2.40	0.42
2:B:100:ARG:NE	2:B:141:ASP:HB2	2.35	0.42
2:B:273:ARG:NH2	2:B:277:LEU:HB3	2.35	0.42
2:B:337:ILE:HG22	2:B:343:ILE:HG21	2.02	0.42
2:B:434:LEU:HG	6:F:299:CYS:SG	2.59	0.42
3:C:75:GLU:CA	3:C:78:PHE:HB3	2.50	0.42
3:C:233:ILE:HD11	3:C:298:CYS:SG	2.59	0.42
3:C:373:LEU:HA	3:C:376:ILE:HD12	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:77:PRO:O	4:D:80:THR:HB	2.19	0.42
4:D:169:ASN:HB3	11:R:77:HIS:HB2	2.02	0.42
4:D:183:LEU:HA	4:D:183:LEU:HD12	1.88	0.42
4:D:387:LYS:HA	4:D:390:GLN:HB3	2.02	0.42
5:E:31:TYR:CE2	5:E:131:GLU:HA	2.55	0.42
5:E:120:TYR:HE1	6:F:112:PHE:CD1	2.36	0.42
5:E:125:LYS:NZ	5:E:132:ASN:HD21	2.17	0.42
5:E:248:ASN:CB	6:F:222:ILE:CD1	2.97	0.42
5:E:323:ILE:O	5:E:326:LYS:HB2	2.20	0.42
6:F:40:SER:HA	6:F:76:GLN:H	1.85	0.42
6:F:69:ILE:HD13	6:F:138:VAL:HG11	2.01	0.42
6:F:265:HIS:CE1	13:G:173:THR:HG21	2.55	0.42
7:H:46:LEU:HD23	7:H:109:LEU:CB	2.34	0.42
7:H:46:LEU:CA	7:H:109:LEU:HD13	2.31	0.42
7:H:55:TYR:O	7:H:59:ARG:N	2.52	0.42
8:O:89:ARG:HD2	8:O:89:ARG:O	2.19	0.42
8:O:159:LEU:HD23	8:O:163:LEU:HG	2.01	0.42
8:O:508:GLN:CB	8:O:559:LEU:CB	2.95	0.42
8:O:573:TYR:CG	8:O:650:LYS:HB2	2.54	0.42
9:P:2:ASP:HB3	10:Q:66:LYS:HZ3	1.85	0.42
9:P:5:LEU:HD21	9:P:62:PHE:CE1	2.55	0.42
9:P:44:LEU:HD23	9:P:77:LEU:HA	2.01	0.42
9:P:69:PRO:HB2	10:Q:63:TYR:HA	2.02	0.42
12:V:87:VAL:HG12	12:V:198:LEU:HD21	2.02	0.42
12:V:181:VAL:CG1	12:V:182:ARG:HD3	2.50	0.42
13:G:145:LEU:H	13:G:145:LEU:CD1	2.32	0.42
1:A:148:ALA:HB3	1:A:149:PRO:HD3	2.02	0.42
1:A:175:LEU:HD12	1:A:178:LEU:HD12	2.02	0.42
1:A:235:ILE:HG22	1:A:239:LEU:HD11	2.01	0.42
1:A:492:ARG:NE	1:A:496:LEU:HD11	2.35	0.42
2:B:99:ILE:HG21	2:B:100:ARG:NH1	2.34	0.42
2:B:165:TYR:OH	2:B:204:MET:HB2	2.20	0.42
2:B:214:LEU:CA	2:B:217:LEU:HD12	2.37	0.42
2:B:255:HIS:HA	2:B:258:PHE:CD2	2.43	0.42
2:B:270:SER:HB2	2:B:273:ARG:CB	2.50	0.42
3:C:16:SER:CB	3:C:49:LEU:HD13	2.48	0.42
3:C:125:LYS:HA	3:C:128:ILE:CG1	2.50	0.42
5:E:255:LEU:H	5:E:321:GLN:HE21	1.68	0.42
6:F:139:HIS:CE1	6:F:151:PHE:HB2	2.54	0.42
6:F:146:ILE:HD11	6:F:149:PRO:HA	2.01	0.42
7:H:21:GLU:N	7:H:40:LEU:HD21	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:H:137:VAL:CG2	7:H:139:LEU:HG	2.50	0.42
8:O:30:VAL:O	8:O:35:TRP:CZ2	2.73	0.42
8:O:42:ILE:HD11	8:O:108:LEU:HD22	2.01	0.42
8:O:118:LEU:HD23	8:O:136:LEU:C	2.41	0.42
8:O:291:LYS:HZ2	8:O:357:VAL:CG2	2.32	0.42
8:O:336:PRO:O	8:O:340:VAL:HB	2.19	0.42
8:O:441:LYS:O	8:O:444:ILE:N	2.53	0.42
8:O:530:PRO:CG	11:R:27:TRP:CH2	2.78	0.42
8:O:534:GLU:O	8:O:538:GLN:HG2	2.20	0.42
8:O:544:TYR:HA	8:O:547:HIS:HB2	2.01	0.42
8:O:700:ILE:CG2	8:O:701:GLN:N	2.81	0.42
9:P:3:VAL:HG12	9:P:63:THR:C	2.40	0.42
12:V:181:VAL:HG23	12:V:184:LEU:CD1	2.50	0.42
1:A:81:SER:OG	1:A:387:ASN:HB2	2.19	0.41
1:A:100:LEU:O	1:A:114:ALA:HB1	2.20	0.41
1:A:214:LEU:HG	1:A:215:SER:H	1.85	0.41
1:A:300:LYS:HG3	1:A:337:PHE:HE1	1.82	0.41
2:B:135:THR:O	2:B:139:LEU:HG	2.20	0.41
2:B:244:MET:O	2:B:248:GLU:N	2.53	0.41
2:B:274:THR:HA	2:B:277:LEU:HG	2.01	0.41
2:B:329:ILE:O	2:B:332:THR:HB	2.20	0.41
2:B:351:LEU:HA	2:B:354:ILE:CG1	2.49	0.41
2:B:412:ASP:OD1	2:B:413:HIS:N	2.53	0.41
3:C:134:ASN:H	3:C:137:GLN:CD	2.23	0.41
4:D:12:LEU:HD22	4:D:25:LYS:CB	2.41	0.41
4:D:169:ASN:HB2	11:R:75:CYS:C	2.41	0.41
4:D:181:GLU:HA	4:D:184:GLN:OE1	2.20	0.41
4:D:385:LEU:O	4:D:388:ILE:HG12	2.19	0.41
5:E:63:LEU:HD11	6:F:46:LEU:HB3	2.01	0.41
6:F:51:ILE:HG12	6:F:125:TYR:CE1	2.55	0.41
6:F:238:ILE:HG22	13:G:174:LEU:CD1	2.44	0.41
6:F:254:HIS:CE1	13:G:44:GLY:HA2	2.53	0.41
7:H:141:VAL:HG21	7:H:160:ARG:HH12	1.85	0.41
8:O:110:THR:CG2	10:Q:28:THR:CB	2.91	0.41
8:O:168:LYS:HZ2	8:O:218:TYR:HB2	1.85	0.41
8:O:226:LEU:HD13	8:O:238:LYS:CB	2.50	0.41
8:O:275:LEU:O	8:O:278:LEU:HG	2.20	0.41
8:O:344:LEU:HD11	8:O:418:PHE:CE1	2.54	0.41
8:O:441:LYS:O	8:O:444:ILE:HB	2.20	0.41
8:O:443:LEU:HD11	8:O:480:MET:HE2	2.01	0.41
8:O:482:VAL:HA	8:O:485:ASP:CB	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:508:GLN:NE2	8:O:559:LEU:HD12	2.28	0.41
8:O:718:ILE:CG2	8:O:719:LYS:H	2.33	0.41
8:O:718:ILE:CG2	8:O:719:LYS:N	2.80	0.41
9:P:43:ARG:HG2	9:P:88:LEU:CD1	2.32	0.41
9:P:100:PRO:HG2	10:Q:84:THR:HB	2.02	0.41
10:Q:91:LEU:CB	12:V:184:LEU:HD13	2.46	0.41
12:V:84:VAL:CB	12:V:101:LEU:HD12	2.50	0.41
12:V:87:VAL:HB	12:V:118:LEU:HG	2.01	0.41
1:A:79:ASN:HA	1:A:80:PRO:HD3	1.95	0.41
1:A:423:HIS:HE1	1:A:457:SER:O	2.03	0.41
2:B:130:GLU:O	2:B:133:GLU:HG3	2.20	0.41
2:B:156:GLY:HA3	2:B:200:LEU:HD13	2.02	0.41
2:B:172:LEU:CD2	2:B:197:ILE:HG12	2.49	0.41
2:B:175:LEU:HD13	2:B:197:ILE:HD11	2.03	0.41
3:C:23:GLN:HE21	3:C:27:LEU:CD2	2.32	0.41
3:C:77:LEU:HA	3:C:80:GLN:CG	2.50	0.41
3:C:136:ASN:CB	3:C:161:TYR:HA	2.50	0.41
3:C:306:ASN:HA	3:C:309:ARG:CZ	2.51	0.41
4:D:60:VAL:CG1	4:D:63:ARG:HD2	2.38	0.41
4:D:139:TYR:O	4:D:144:LYS:HE2	2.19	0.41
5:E:238:LEU:O	5:E:241:LEU:HB3	2.20	0.41
5:E:241:LEU:CD2	6:F:200:VAL:HG11	2.50	0.41
5:E:254:SER:HB3	5:E:320:SER:OG	2.20	0.41
5:E:256:LEU:HD12	5:E:257:THR:N	2.35	0.41
5:E:323:ILE:CB	13:G:188:ILE:CD1	2.68	0.41
6:F:33:CYS:N	6:F:183:PHE:O	2.51	0.41
7:H:35:PRO:HA	7:H:68:ASN:ND2	2.35	0.41
7:H:55:TYR:HB3	7:H:59:ARG:NH1	2.35	0.41
7:H:61:PRO:O	7:H:65:LYS:N	2.44	0.41
8:O:16:LYS:HD3	8:O:40:SER:OG	2.19	0.41
8:O:117:LYS:HB3	8:O:117:LYS:HE2	1.83	0.41
8:O:180:VAL:O	8:O:184:VAL:HG23	2.20	0.41
8:O:505:ILE:HG22	11:R:27:TRP:CD2	2.56	0.41
8:O:512:LEU:H	11:R:32:LEU:HB3	1.85	0.41
8:O:611:THR:HA	8:O:629:LYS:O	2.20	0.41
8:O:621:LYS:HB2	8:O:643:ASN:HB3	2.02	0.41
11:R:44:ILE:HG22	11:R:55:GLU:OE1	2.20	0.41
12:V:89:LEU:CB	12:V:198:LEU:HD22	2.49	0.41
12:V:89:LEU:CA	12:V:198:LEU:HD22	2.50	0.41
12:V:101:LEU:HA	12:V:105:THR:HG21	2.01	0.41
12:V:121:ASP:H	12:V:128:LEU:CD1	2.32	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:V:180:ILE:HB	12:V:184:LEU:HB3	2.03	0.41
13:G:100:THR:CG2	13:G:120:LEU:CD2	2.95	0.41
1:A:245:SER:HA	1:A:248:LEU:CD1	2.46	0.41
2:B:71:ALA:HA	2:B:74:GLN:HG2	2.00	0.41
2:B:98:TYR:O	2:B:103:VAL:HG21	2.20	0.41
2:B:163:GLU:OE1	2:B:204:MET:HA	2.20	0.41
3:C:117:PRO:HB2	3:C:151:LEU:HB2	2.02	0.41
3:C:139:THR:H	3:C:142:HIS:CE1	2.38	0.41
4:D:5:VAL:CG2	4:D:32:LYS:HD3	2.48	0.41
4:D:11:GLN:O	4:D:14:ASN:HB2	2.19	0.41
4:D:54:ASN:O	4:D:57:VAL:HB	2.20	0.41
4:D:155:TYR:HB2	4:D:164:ALA:HB2	2.01	0.41
4:D:195:LEU:HD13	4:D:204:ALA:CA	2.50	0.41
5:E:77:VAL:CG1	5:E:100:VAL:HG22	2.39	0.41
5:E:249:THR:OG1	6:F:225:HIS:CD2	2.74	0.41
5:E:330:GLN:HE21	6:F:268:PRO:HG3	1.85	0.41
6:F:41:VAL:HB	6:F:120:GLU:OE2	2.20	0.41
6:F:72:LEU:HD12	6:F:123:GLY:HA3	2.01	0.41
6:F:238:ILE:HA	6:F:241:TYR:HB3	2.01	0.41
7:H:100:GLU:H	7:H:104:PRO:CG	2.33	0.41
7:H:148:ILE:CD1	7:H:149:LEU:HG	2.50	0.41
7:H:197:LEU:HB2	13:G:188:ILE:HA	1.93	0.41
8:O:249:ARG:HA	8:O:252:LYS:CD	2.50	0.41
8:O:563:GLU:HB2	8:O:582:MET:HE1	2.02	0.41
8:O:720:LYS:HA	8:O:723:GLU:HG3	2.02	0.41
9:P:1:MET:N	9:P:20:GLU:HB3	2.35	0.41
9:P:6:MET:SD	9:P:13:THR:HG23	2.60	0.41
9:P:52:ASP:O	9:P:55:LYS:HB2	2.20	0.41
12:V:78:ASN:ND2	12:V:102:PRO:O	2.53	0.41
13:G:113:TYR:CD2	13:G:150:GLN:OE1	2.74	0.41
1:A:357:GLU:HA	1:A:363:ARG:HH12	1.82	0.41
2:B:18:LEU:CB	8:O:648:ARG:HD2	2.47	0.41
2:B:192:THR:CG2	8:O:474:HIS:CD2	2.99	0.41
2:B:192:THR:HB	2:B:230:HIS:CE1	2.55	0.41
2:B:357:GLN:HG3	2:B:360:ILE:HD12	2.02	0.41
4:D:2:ALA:HB1	4:D:43:GLU:CB	2.50	0.41
4:D:81:ALA:CA	4:D:84:ILE:HD12	2.39	0.41
4:D:124:ALA:HA	4:D:127:LEU:HD12	2.01	0.41
4:D:287:PRO:HA	4:D:290:LYS:CG	2.51	0.41
4:D:367:LEU:HD22	4:D:370:TRP:CE3	2.55	0.41
4:D:383:ASN:O	4:D:387:LYS:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:123:ASN:O	5:E:126:GLN:HB2	2.19	0.41
5:E:159:GLN:O	5:E:163:GLU:HB2	2.20	0.41
5:E:194:LYS:CG	5:E:195:PRO:HD2	2.51	0.41
5:E:313:GLU:O	5:E:316:HIS:HB2	2.20	0.41
5:E:319:MET:HE3	7:H:200:LEU:HB3	2.02	0.41
5:E:333:ILE:HG23	6:F:265:HIS:HA	2.02	0.41
7:H:117:ALA:HB1	7:H:136:PHE:HB3	2.03	0.41
8:O:20:THR:CG2	8:O:38:ARG:HG2	2.40	0.41
8:O:243:LEU:CD1	8:O:267:GLN:HG2	2.48	0.41
8:O:527:PHE:HE2	11:R:27:TRP:CZ2	2.38	0.41
8:O:567:ASN:HA	11:R:23:GLU:CD	2.28	0.41
8:O:572:PRO:HD2	8:O:573:TYR:CE1	2.55	0.41
8:O:623:ILE:HD11	8:O:638:PHE:CD1	2.55	0.41
8:O:712:ASN:HA	8:O:713:PRO:HD2	1.81	0.41
9:P:1:MET:CB	9:P:20:GLU:HB3	2.48	0.41
9:P:8:ARG:CD	9:P:91:GLU:HB3	2.50	0.41
9:P:9:ARG:HG3	9:P:77:LEU:HD22	2.01	0.41
12:V:165:VAL:HG22	12:V:169:LEU:HD12	2.02	0.41
13:G:75:TYR:CE2	13:G:79:ILE:HD11	2.56	0.41
13:G:140:ILE:HG12	13:G:158:ILE:HB	2.02	0.41
1:A:192:SER:CA	1:A:197:ILE:HD11	2.49	0.41
1:A:301:GLN:NE2	1:A:304:LYS:HD3	2.35	0.41
2:B:33:GLU:HA	2:B:36:TYR:CD2	2.55	0.41
2:B:116:LEU:HD11	2:B:154:LYS:HE3	2.02	0.41
2:B:167:LYS:O	2:B:171:ILE:HG13	2.20	0.41
2:B:274:THR:HA	2:B:277:LEU:CG	2.51	0.41
2:B:375:SER:OG	2:B:380:ILE:O	2.39	0.41
2:B:443:ALA:HB1	3:C:244:TYR:HB2	2.01	0.41
3:C:101:ALA:HB1	3:C:140:SER:HB3	2.02	0.41
3:C:176:TYR:OH	3:C:181:PHE:HB2	2.19	0.41
3:C:186:TYR:CZ	3:C:222:GLU:HB3	2.55	0.41
3:C:286:PHE:HE1	3:C:295:VAL:H	1.69	0.41
4:D:198:ARG:HA	4:D:198:ARG:NE	2.36	0.41
4:D:240:GLN:CG	4:D:244:ARG:HH12	2.32	0.41
4:D:324:LEU:HB3	4:D:336:GLU:OE2	2.20	0.41
4:D:373:GLN:HA	4:D:376:SER:HB3	2.01	0.41
4:D:389:SER:OG	4:D:393:PRO:CB	2.52	0.41
4:D:395:TRP:HZ2	6:F:244:ALA:HB1	1.82	0.41
5:E:36:GLN:HB3	5:E:84:LYS:HB2	2.03	0.41
5:E:185:ALA:O	5:E:224:LEU:N	2.53	0.41
5:E:279:GLN:CD	5:E:298:ASP:CA	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:331:ILE:H	6:F:268:PRO:HB3	1.86	0.41
6:F:132:ASP:H	6:F:135:ASP:HB2	1.85	0.41
7:H:201:THR:HG22	13:G:195:ALA:CB	2.18	0.41
8:O:68:HIS:CD2	8:O:72:LEU:HD11	2.55	0.41
8:O:76:VAL:HB	8:O:155:LEU:HD21	2.03	0.41
8:O:92:GLU:O	8:O:96:LYS:HG3	2.20	0.41
8:O:131:ASP:HB2	8:O:135:PRO:CA	2.50	0.41
8:O:301:LEU:HB3	8:O:311:MET:SD	2.60	0.41
8:O:510:TYR:HD1	8:O:510:TYR:HA	1.75	0.41
9:P:51:LEU:HD22	9:P:60:CYS:SG	2.60	0.41
9:P:93:PHE:HB3	10:Q:51:SER:C	2.40	0.41
10:Q:82:ILE:HD12	12:V:162:CYS:SG	2.60	0.41
11:R:41:ASN:H	11:R:49:ILE:CB	2.26	0.41
13:G:78:TYR:CD1	13:G:82:LYS:HA	2.54	0.41
1:A:85:GLU:HG3	1:A:117:MET:HE2	2.03	0.41
1:A:183:THR:HG22	1:A:187:ASN:HD21	1.86	0.41
1:A:388:LEU:HB3	1:A:398:VAL:HG23	2.02	0.41
2:B:78:ILE:O	2:B:82:LEU:HB2	2.20	0.41
2:B:330:LEU:HD23	2:B:333:ASN:ND2	2.25	0.41
3:C:193:THR:HA	3:C:198:PHE:CE1	2.56	0.41
4:D:2:ALA:HA	4:D:44:ALA:CB	2.32	0.41
4:D:6:ARG:NE	4:D:43:GLU:HG2	2.26	0.41
4:D:15:SER:HG	4:D:25:LYS:NZ	2.14	0.41
4:D:149:LEU:HD21	4:D:187:TYR:HA	2.00	0.41
4:D:382:ASN:HB3	6:F:234:ARG:HE	1.86	0.41
5:E:26:ASP:O	5:E:30:LYS:HG3	2.20	0.41
5:E:244:LYS:HD3	6:F:233:SER:CB	2.50	0.41
6:F:43:LEU:HD13	6:F:84:MET:CB	2.50	0.41
6:F:47:VAL:HG12	6:F:86:SER:C	2.41	0.41
6:F:83:VAL:HG11	6:F:152:LEU:HD12	2.02	0.41
6:F:276:LYS:O	6:F:279:PHE:HB3	2.19	0.41
7:H:43:LEU:HA	7:H:46:LEU:CD1	2.39	0.41
7:H:117:ALA:CA	7:H:120:LEU:HB3	2.49	0.41
7:H:126:THR:HA	7:H:166:LYS:HZ3	1.86	0.41
7:H:197:LEU:HB3	13:G:191:GLN:HB2	2.01	0.41
8:O:93:GLU:HA	8:O:96:LYS:HE2	2.02	0.41
8:O:118:LEU:HD22	8:O:131:ASP:CG	2.40	0.41
8:O:148:ARG:HB3	8:O:191:VAL:CG1	2.35	0.41
8:O:152:VAL:O	8:O:156:GLN:HB2	2.20	0.41
8:O:385:CYS:O	8:O:389:GLU:HG3	2.21	0.41
8:O:396:ASP:HA	8:O:442:ARG:CZ	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:429:ASP:OD1	8:O:430:VAL:N	2.51	0.41
8:O:439:LEU:HD13	8:O:442:ARG:NH1	2.36	0.41
8:O:696:HIS:NE2	8:O:719:LYS:CG	2.83	0.41
10:Q:81:GLU:HA	12:V:161:ARG:CZ	2.50	0.41
12:V:60:ARG:NH1	12:V:64:ARG:HB2	2.34	0.41
12:V:113:ARG:HG3	12:V:138:PRO:HG2	2.01	0.41
13:G:123:ARG:HA	13:G:123:ARG:HH11	1.85	0.41
13:G:140:ILE:CG2	13:G:141:ILE:N	2.83	0.41
1:A:342:LEU:HD23	1:A:346:VAL:HG21	2.02	0.41
2:B:130:GLU:OE1	2:B:130:GLU:N	2.47	0.41
2:B:167:LYS:C	2:B:170:LYS:HG3	2.40	0.41
2:B:194:LEU:HD23	2:B:224:ILE:CD1	2.51	0.41
2:B:221:SER:O	2:B:224:ILE:HG13	2.20	0.41
3:C:59:LEU:CD2	3:C:77:LEU:HD11	2.51	0.41
4:D:97:ILE:CA	4:D:100:GLU:HB2	2.48	0.41
4:D:141:VAL:HG12	4:D:178:SER:HB2	2.01	0.41
4:D:200:LYS:HE2	4:D:200:LYS:CA	2.51	0.41
4:D:247:ALA:HA	4:D:268:TYR:CE1	2.55	0.41
4:D:319:ILE:CG1	4:D:323:GLU:HG3	2.51	0.41
4:D:342:MET:O	4:D:348:MET:HB3	2.20	0.41
5:E:120:TYR:HA	6:F:111:GLN:OE1	2.20	0.41
5:E:200:PRO:CD	5:E:222:TYR:HB2	2.51	0.41
6:F:72:LEU:HD13	6:F:150:LEU:HD22	2.02	0.41
6:F:234:ARG:O	6:F:237:LEU:HB2	2.21	0.41
6:F:242:VAL:CG2	6:F:256:ILE:HD12	2.40	0.41
7:H:107:GLU:HA	7:H:110:ARG:NE	2.33	0.41
7:H:148:ILE:HD12	7:H:149:LEU:N	2.36	0.41
8:O:76:VAL:HG11	8:O:155:LEU:HD21	2.03	0.41
8:O:178:GLN:CB	8:O:252:LYS:HD3	2.51	0.41
8:O:204:GLN:HA	8:O:208:GLU:CB	2.41	0.41
8:O:309:PRO:O	8:O:313:GLN:HG3	2.20	0.41
8:O:310:HIS:O	8:O:314:GLU:HG2	2.20	0.41
8:O:362:GLN:OE1	8:O:365:MET:HG3	2.21	0.41
8:O:644:PHE:CD2	8:O:650:LYS:HA	2.55	0.41
12:V:74:VAL:CG2	12:V:139:SER:C	2.87	0.41
12:V:117:TRP:HB3	12:V:136:PHE:HB3	2.01	0.41
12:V:175:TYR:HB3	12:V:189:GLU:CD	2.41	0.41
1:A:109:THR:O	1:A:110:LEU:HD23	2.21	0.41
1:A:215:SER:HB2	1:A:219:LYS:NZ	2.34	0.41
1:A:277:GLN:NE2	1:A:281:ILE:HB	2.32	0.41
1:A:286:LYS:HE3	1:A:308:LEU:CB	2.47	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:340:GLN:O	1:A:344:ARG:HG3	2.20	0.41
1:A:394:LEU:CD1	1:A:398:VAL:HA	2.50	0.41
2:B:214:LEU:O	2:B:217:LEU:HB2	2.19	0.41
2:B:265:TYR:HH	2:B:272:ARG:H	1.57	0.41
2:B:294:PHE:CE2	2:B:303:LYS:HD3	2.55	0.41
3:C:122:GLY:HA2	3:C:125:LYS:CD	2.50	0.41
3:C:206:GLU:HG3	3:C:242:PRO:CG	2.49	0.41
3:C:262:GLU:CG	3:C:278:LEU:HD13	2.50	0.41
3:C:378:GLN:HA	3:C:381:LEU:HG	2.02	0.41
3:C:400:ASN:ND2	6:F:312:LEU:HG	2.26	0.41
4:D:13:MET:HA	4:D:26:TYR:OH	2.20	0.41
4:D:352:ILE:HG22	4:D:353:ASP:C	2.41	0.41
5:E:204:GLN:O	5:E:206:ILE:HG12	2.20	0.41
5:E:316:HIS:C	6:F:220:HIS:HE2	2.21	0.41
6:F:57:ARG:CZ	6:F:88:GLU:HB3	2.51	0.41
6:F:101:ASP:O	6:F:104:TYR:HB3	2.20	0.41
8:O:45:LEU:HD23	8:O:45:LEU:HA	1.93	0.41
8:O:106:ARG:HH12	10:Q:27:PRO:HA	1.79	0.41
8:O:110:THR:CG2	10:Q:28:THR:HG23	2.49	0.41
8:O:123:LEU:HD12	8:O:127:TYR:HE1	1.85	0.41
8:O:219:TYR:O	8:O:270:MET:HG2	2.21	0.41
8:O:291:LYS:HG2	8:O:294:MET:HB3	2.02	0.41
8:O:321:ASP:O	8:O:325:ARG:HG3	2.21	0.41
8:O:350:PHE:HB3	8:O:368:LEU:HD11	2.02	0.41
8:O:368:LEU:O	8:O:372:LEU:HB2	2.20	0.41
8:O:527:PHE:HE2	11:R:27:TRP:HH2	1.68	0.41
8:O:528:ALA:C	8:O:529:ILE:N	2.74	0.41
8:O:554:THR:HG22	8:O:555:TRP:N	2.33	0.41
8:O:577:VAL:HB	8:O:581:GLN:OE1	2.21	0.41
9:P:24:VAL:O	9:P:27:LEU:HB3	2.20	0.41
9:P:93:PHE:CE1	10:Q:55:GLU:CB	2.90	0.41
11:R:41:ASN:HA	11:R:49:ILE:CB	2.50	0.41
12:V:73:GLN:HB3	12:V:140:LEU:C	2.41	0.41
13:G:28:THR:CA	13:G:31:ILE:CG2	2.99	0.41
1:A:81:SER:H	1:A:390:LEU:HD11	1.85	0.41
1:A:92:SER:HB3	1:A:96:ARG:NH2	2.36	0.41
1:A:142:THR:HG22	1:A:146:GLN:HG3	2.02	0.41
1:A:280:ALA:O	1:A:283:THR:N	2.54	0.41
1:A:376:SER:HA	1:A:379:LYS:HB3	2.02	0.41
1:A:378:LEU:HA	1:A:381:LEU:HB3	2.01	0.41
1:A:440:LEU:O	1:A:444:ILE:HG13	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:504:SER:HA	3:C:215:ALA:CA	2.50	0.41
2:B:6:ASP:CG	2:B:77:LYS:NZ	2.72	0.41
2:B:47:PRO:O	2:B:51:LEU:HG	2.21	0.41
2:B:72:LEU:HD12	2:B:95:LEU:CD2	2.50	0.41
2:B:132:TYR:O	2:B:136:LEU:HG	2.21	0.41
2:B:153:THR:HG23	2:B:196:GLU:CG	2.50	0.41
2:B:169:GLN:HA	2:B:172:LEU:CG	2.50	0.41
2:B:215:LYS:HE3	2:B:215:LYS:HB3	1.83	0.41
2:B:259:PHE:CD1	2:B:296:SER:HB2	2.54	0.41
2:B:300:LYS:HD3	2:B:300:LYS:H	1.86	0.41
2:B:306:PRO:HA	2:B:309:LEU:HD21	2.02	0.41
2:B:370:HIS:ND1	2:B:408:LEU:HD21	2.36	0.41
2:B:418:GLY:O	2:B:422:THR:HG23	2.08	0.41
3:C:28:ILE:HG22	3:C:61:VAL:CG2	2.50	0.41
3:C:33:GLU:C	3:C:64:VAL:HG13	2.42	0.41
3:C:71:VAL:HB	3:C:72:PRO:HD2	2.01	0.41
3:C:112:VAL:HG22	3:C:151:LEU:HD11	2.03	0.41
3:C:135:THR:H	3:C:137:GLN:HG3	1.86	0.41
3:C:135:THR:H	3:C:137:GLN:NE2	2.18	0.41
3:C:199:GLU:N	3:C:234:LEU:HD22	2.36	0.41
3:C:206:GLU:HB2	3:C:227:TYR:HE1	1.83	0.41
3:C:310:LEU:HD12	3:C:326:VAL:CG2	2.50	0.41
3:C:353:GLN:NE2	7:H:129:ILE:HD12	2.36	0.41
3:C:390:LEU:HD13	6:F:302:MET:N	2.36	0.41
4:D:153:ARG:HH22	4:D:186:HIS:CA	2.34	0.41
4:D:213:TYR:O	4:D:215:THR:N	2.54	0.41
4:D:235:LEU:HD21	4:D:281:PHE:HE2	1.85	0.41
4:D:243:SER:HA	4:D:246:LEU:HD12	2.03	0.41
4:D:275:GLY:CA	4:D:278:LEU:HB3	2.50	0.41
4:D:281:PHE:CZ	4:D:285:LEU:HD21	2.55	0.41
4:D:328:LEU:CB	4:D:330:ILE:HG12	2.47	0.41
4:D:352:ILE:HG23	4:D:358:ILE:O	2.21	0.41
4:D:384:LEU:CD2	6:F:259:GLU:HB3	2.51	0.41
5:E:63:LEU:HD21	6:F:47:VAL:N	2.36	0.41
5:E:250:LEU:N	6:F:228:ILE:CD1	2.64	0.41
5:E:294:ARG:HD2	5:E:294:ARG:C	2.41	0.41
5:E:328:PHE:CZ	6:F:224:GLN:HB3	2.56	0.41
6:F:32:ALA:O	6:F:182:LEU:HD22	2.20	0.41
6:F:64:ARG:O	6:F:66:VAL:HG23	2.20	0.41
6:F:90:LEU:HD21	6:F:92:HIS:NE2	2.36	0.41
7:H:24:GLU:HA	7:H:32:ALA:CB	2.43	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:H:56:LEU:HG	7:H:60:ILE:HG12	2.03	0.41
8:O:38:ARG:HA	8:O:41:ASP:CB	2.50	0.41
8:O:39:PHE:HD2	10:Q:39:GLU:CD	2.24	0.41
8:O:44:ALA:HA	8:O:47:VAL:HG12	2.03	0.41
8:O:50:PRO:HB2	8:O:54:GLY:N	2.35	0.41
8:O:87:TYR:HE2	8:O:151:MET:HA	1.85	0.41
8:O:107:TYR:HB2	10:Q:32:MET:HG2	1.01	0.41
8:O:148:ARG:HA	8:O:151:MET:HE2	2.03	0.41
8:O:164:LEU:HD21	8:O:210:PRO:HB2	2.03	0.41
8:O:211:PHE:HZ	8:O:259:TYR:CB	2.33	0.41
8:O:312:ILE:HD12	8:O:312:ILE:H	1.85	0.41
8:O:316:GLN:N	8:O:367:ALA:HB1	2.35	0.41
8:O:319:ILE:HB	8:O:371:ALA:HB3	2.03	0.41
8:O:379:ARG:CD	8:O:387:ALA:HB2	2.32	0.41
8:O:550:GLY:O	11:R:34:ALA:HB3	2.20	0.41
8:O:553:LEU:HD13	11:R:31:ALA:HA	1.86	0.41
8:O:555:TRP:HZ3	11:R:29:ALA:CA	2.31	0.41
8:O:556:LEU:O	11:R:30:VAL:CG2	2.67	0.41
8:O:564:VAL:CB	11:R:19:LYS:NZ	2.84	0.41
8:O:620:VAL:HG13	8:O:644:PHE:HD1	1.86	0.41
8:O:663:GLN:O	8:O:667:GLN:HG2	2.20	0.41
11:R:41:ASN:HA	11:R:49:ILE:HA	2.03	0.41
11:R:44:ILE:HG13	11:R:83:CYS:CB	2.51	0.41
13:G:15:PHE:CE1	13:G:34:VAL:HA	2.56	0.41
13:G:64:LEU:HD12	13:G:67:LEU:CD2	2.50	0.41
13:G:69:LEU:CD1	13:G:74:THR:N	2.84	0.41
13:G:164:LYS:HG2	13:G:165:LYS:H	1.86	0.41
1:A:102:PHE:CD2	1:A:392:MET:HG3	2.56	0.41
1:A:247:TYR:HA	1:A:319:LEU:HD22	2.02	0.41
2:B:25:ASN:O	2:B:28:PRO:HG2	2.21	0.41
2:B:119:ILE:HG22	2:B:119:ILE:O	2.21	0.41
2:B:441:LYS:HE2	2:B:441:LYS:HA	2.02	0.41
3:C:127:ALA:HA	3:C:130:LYS:HB2	2.03	0.41
3:C:205:TYR:CD1	3:C:223:SER:HA	2.56	0.41
4:D:73:LEU:HB2	4:D:85:TYR:OH	2.21	0.41
4:D:212:SER:HA	4:D:222:ARG:CA	2.51	0.41
4:D:266:LYS:HD2	4:D:272:ILE:O	2.21	0.41
5:E:49:HIS:CD2	5:E:190:PRO:HG2	2.56	0.41
5:E:205:THR:CG2	5:E:302:LYS:CG	2.91	0.41
5:E:252:SER:N	6:F:221:LEU:HA	2.30	0.41
6:F:46:LEU:HG	6:F:49:LEU:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:46:LEU:HA	6:F:49:LEU:HD12	2.01	0.41
6:F:140:LYS:HE3	6:F:140:LYS:HB3	1.96	0.41
6:F:274:LYS:O	6:F:277:THR:HB	2.21	0.41
7:H:89:ILE:O	7:H:92:THR:OG1	2.37	0.41
7:H:125:TYR:CB	7:H:128:ILE:HB	2.51	0.41
7:H:197:LEU:HD23	7:H:197:LEU:HA	1.88	0.41
8:O:25:VAL:C	8:O:27:LEU:H	2.24	0.41
8:O:151:MET:SD	8:O:188:PHE:HA	2.61	0.41
8:O:178:GLN:HB2	8:O:252:LYS:CG	2.51	0.41
8:O:235:TYR:CE1	8:O:239:VAL:HG21	2.55	0.41
8:O:288:GLN:O	8:O:288:GLN:HG3	2.20	0.41
8:O:354:ILE:HG23	8:O:358:LEU:HB3	2.03	0.41
8:O:395:CYS:HB3	8:O:435:TYR:CZ	2.56	0.41
8:O:567:ASN:HD21	11:R:19:LYS:HB3	1.21	0.41
8:O:608:LYS:CA	8:O:611:THR:HG22	2.47	0.41
8:O:610:LEU:HA	8:O:613:THR:OG1	2.21	0.41
9:P:37:ARG:HA	9:P:38:PRO:HD3	1.94	0.41
12:V:60:ARG:CB	12:V:91:PHE:HB3	2.47	0.41
12:V:101:LEU:HD22	12:V:105:THR:HG22	2.03	0.41
12:V:113:ARG:CG	12:V:139:SER:OG	2.69	0.41
12:V:162:CYS:HB3	12:V:188:LEU:CD2	2.50	0.41
13:G:112:PRO:CA	13:G:151:LEU:CD2	2.98	0.41
1:A:208:TYR:CA	1:A:213:ASP:HB2	2.51	0.40
1:A:215:SER:O	1:A:219:LYS:HD3	2.21	0.40
1:A:243:LYS:HA	1:A:246:VAL:CG2	2.51	0.40
1:A:250:ASN:CB	1:A:254:VAL:HG21	2.51	0.40
1:A:307:LEU:O	1:A:307:LEU:HD22	2.21	0.40
1:A:353:LYS:CA	1:A:356:LEU:HD12	2.48	0.40
1:A:388:LEU:HA	1:A:394:LEU:HD23	2.03	0.40
1:A:433:VAL:O	1:A:433:VAL:HG12	2.20	0.40
1:A:437:GLU:O	1:A:440:LEU:HB2	2.21	0.40
1:A:444:ILE:CG1	1:A:449:ILE:HG21	2.42	0.40
1:A:492:ARG:NH1	3:C:211:THR:HA	2.36	0.40
1:A:497:ARG:O	1:A:499:GLN:HG2	2.21	0.40
2:B:12:ASP:O	2:B:16:TYR:HD2	2.03	0.40
2:B:89:MET:CG	2:B:93:LYS:HE3	2.37	0.40
2:B:205:TYR:CZ	2:B:214:LEU:HG	2.55	0.40
2:B:323:ILE:CD1	2:B:358:VAL:HG21	2.51	0.40
2:B:323:ILE:CG1	2:B:358:VAL:HG21	2.51	0.40
2:B:378:LEU:CB	2:B:380:ILE:HG12	2.50	0.40
2:B:443:ALA:C	3:C:244:TYR:HB3	2.41	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:78:PHE:CE2	3:C:119:ARG:HG2	2.55	0.40
3:C:128:ILE:HG22	3:C:132:GLN:NE2	2.36	0.40
3:C:249:VAL:HG12	3:C:254:LYS:HB2	2.03	0.40
4:D:54:ASN:ND2	4:D:56:ASN:HD22	2.16	0.40
4:D:156:LEU:HD12	4:D:193:ARG:HD3	2.02	0.40
4:D:211:LEU:HA	4:D:214:LYS:CD	2.50	0.40
4:D:238:ALA:HB2	4:D:300:LEU:HD12	2.03	0.40
4:D:316:TYR:N	13:G:144:LYS:HE2	2.36	0.40
4:D:384:LEU:HD11	6:F:259:GLU:CB	2.51	0.40
5:E:58:SER:OG	5:E:93:MET:HA	2.21	0.40
5:E:171:ASP:OD2	5:E:174:ARG:HG3	2.21	0.40
5:E:203:TYR:CD1	5:E:214:PHE:HE2	2.39	0.40
5:E:245:TYR:O	5:E:248:ASN:HB2	2.20	0.40
5:E:247:VAL:CA	6:F:225:HIS:ND1	2.81	0.40
5:E:330:GLN:NE2	5:E:331:ILE:O	2.54	0.40
6:F:73:ILE:HG12	6:F:85:ASN:CB	2.50	0.40
6:F:150:LEU:HD23	6:F:151:PHE:N	2.37	0.40
6:F:225:HIS:CA	6:F:228:ILE:HD12	2.47	0.40
7:H:28:PRO:HB3	7:H:31:ILE:H	1.86	0.40
7:H:119:ALA:HA	7:H:122:SER:OG	2.21	0.40
8:O:101:MET:HE1	8:O:139:ILE:HG12	2.01	0.40
8:O:106:ARG:NH1	10:Q:30:LYS:HB3	2.36	0.40
8:O:302:ARG:HG3	8:O:361:ASP:OD1	2.21	0.40
8:O:610:LEU:HD23	8:O:631:ASP:CA	2.51	0.40
13:G:41:TYR:CD2	13:G:160:ARG:CD	3.01	0.40
1:A:135:HIS:HB2	1:A:162:LEU:HB3	2.03	0.40
1:A:277:GLN:CG	1:A:281:ILE:HD12	2.52	0.40
1:A:293:GLU:CD	1:A:298:LYS:HD2	2.42	0.40
2:B:128:LEU:O	2:B:131:PHE:HB2	2.21	0.40
2:B:193:GLN:O	2:B:197:ILE:HG13	2.21	0.40
2:B:196:GLU:OE2	2:B:200:LEU:HG	2.21	0.40
2:B:233:ILE:HG22	2:B:233:ILE:O	2.22	0.40
2:B:248:GLU:OE2	2:B:250:GLU:HB3	2.21	0.40
2:B:260:GLU:CG	11:R:66:GLU:CD	2.89	0.40
2:B:282:LEU:HD12	2:B:285:MET:SD	2.61	0.40
2:B:298:GLU:HB3	2:B:301:PRO:HG2	2.02	0.40
2:B:314:LEU:HD22	2:B:326:PHE:HB3	2.01	0.40
2:B:323:ILE:HG23	2:B:354:ILE:CD1	2.51	0.40
2:B:368:ARG:HA	2:B:411:LEU:HD23	2.03	0.40
3:C:150:LEU:HA	3:C:155:PHE:CE1	2.56	0.40
3:C:326:VAL:O	3:C:327:GLN:HB2	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:378:GLN:HA	3:C:381:LEU:CG	2.52	0.40
4:D:224:GLU:CD	4:D:227:LYS:HD3	2.41	0.40
4:D:298:SER:N	4:D:301:ASP:OD2	2.54	0.40
4:D:323:GLU:OE1	13:G:125:LEU:HD23	2.17	0.40
5:E:76:GLU:O	5:E:100:VAL:HG23	2.21	0.40
5:E:82:LEU:HD21	5:E:121:ILE:HG12	2.04	0.40
6:F:57:ARG:HD3	6:F:88:GLU:OE1	2.21	0.40
6:F:150:LEU:HD11	6:F:167:VAL:CG1	2.52	0.40
7:H:121:VAL:HG13	7:H:128:ILE:HD13	2.03	0.40
8:O:17:LEU:HG	8:O:21:ILE:CD1	2.50	0.40
8:O:53:LEU:HD12	8:O:53:LEU:H	1.85	0.40
8:O:70:ARG:NE	8:O:70:ARG:HA	2.36	0.40
8:O:91:TRP:HB2	8:O:147:TRP:NE1	2.36	0.40
8:O:564:VAL:HG23	11:R:19:LYS:HZ3	1.85	0.40
8:O:611:THR:O	8:O:615:LYS:HG3	2.20	0.40
11:R:84:ILE:HG21	11:R:101:TRP:CA	2.44	0.40
11:R:97:ASP:HB3	11:R:99:ARG:CZ	2.51	0.40
12:V:118:LEU:HG	12:V:118:LEU:O	2.22	0.40
13:G:41:TYR:HD2	13:G:160:ARG:CD	2.35	0.40
13:G:142:GLN:OE1	13:G:155:ASP:HB2	2.21	0.40
13:G:188:ILE:HG13	13:G:189:GLU:N	2.36	0.40
1:A:238:CYS:HB2	1:A:261:ALA:HB2	2.02	0.40
1:A:310:SER:OG	1:A:311:PHE:N	2.55	0.40
1:A:456:HIS:CE1	3:C:357:MET:HG3	2.57	0.40
2:B:14:GLU:HG3	2:B:65:GLY:HA2	2.03	0.40
3:C:126:GLN:H	3:C:126:GLN:HG3	1.73	0.40
3:C:159:LEU:HD23	3:C:162:LEU:CD1	2.52	0.40
3:C:190:MET:CA	3:C:226:LYS:HE2	2.48	0.40
3:C:217:SER:O	3:C:221:LEU:HG	2.21	0.40
3:C:343:GLU:HG2	3:C:344:ASP:OD1	2.21	0.40
4:D:81:ALA:O	4:D:84:ILE:HB	2.22	0.40
4:D:213:TYR:HA	4:D:254:ARG:HH22	1.86	0.40
4:D:293:THR:HG21	4:D:302:ARG:HD3	2.03	0.40
5:E:231:SER:O	5:E:234:ASP:HB2	2.21	0.40
5:E:255:LEU:CD1	5:E:321:GLN:HG3	2.44	0.40
5:E:311:THR:HG23	6:F:290:ALA:HB1	2.04	0.40
5:E:323:ILE:CD1	7:H:197:LEU:HD21	2.46	0.40
6:F:46:LEU:HA	6:F:49:LEU:CD1	2.52	0.40
6:F:72:LEU:HB2	6:F:123:GLY:CA	2.52	0.40
6:F:254:HIS:CG	13:G:162:ILE:CD1	3.05	0.40
8:O:45:LEU:CD2	8:O:57:LEU:HD22	2.45	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:118:LEU:HB3	8:O:136:LEU:O	2.21	0.40
8:O:208:GLU:HA	8:O:211:PHE:CB	2.49	0.40
8:O:220:LYS:HD2	8:O:220:LYS:HA	1.78	0.40
8:O:505:ILE:CG2	11:R:27:TRP:CB	2.87	0.40
8:O:610:LEU:HD21	8:O:638:PHE:HZ	1.83	0.40
8:O:720:LYS:O	11:R:46:ARG:HG3	2.21	0.40
9:P:8:ARG:NE	9:P:91:GLU:HB3	2.35	0.40
9:P:80:ARG:H	9:P:80:ARG:HD3	1.87	0.40
12:V:84:VAL:CG2	12:V:101:LEU:HD12	2.51	0.40
12:V:140:LEU:HD22	12:V:144:GLY:C	2.42	0.40
12:V:205:ARG:NH2	12:V:206:ILE:HD11	2.36	0.40
1:A:444:ILE:HG12	1:A:449:ILE:CG2	2.41	0.40
2:B:71:ALA:HA	2:B:74:GLN:HG3	2.04	0.40
2:B:93:LYS:O	2:B:96:LEU:HB2	2.21	0.40
2:B:94:GLN:HA	2:B:97:THR:CG2	2.52	0.40
2:B:195:LEU:N	2:B:228:ILE:HD11	2.25	0.40
3:C:40:SER:CA	3:C:43:ASP:HB3	2.49	0.40
3:C:138:LEU:H	3:C:169:ILE:HG23	1.86	0.40
3:C:156:LYS:HA	3:C:159:LEU:HG	2.04	0.40
3:C:232:LEU:HD12	3:C:263:LEU:HD21	2.03	0.40
3:C:383:CYS:HB2	6:F:291:TYR:HE1	1.86	0.40
4:D:79:SER:O	4:D:82:LYS:HB3	2.21	0.40
4:D:201:PHE:HB3	4:D:232:CYS:HB3	2.02	0.40
4:D:211:LEU:HB2	4:D:225:ALA:HB1	2.03	0.40
4:D:236:ALA:HB3	4:D:242:ARG:CG	2.52	0.40
5:E:106:ARG:CB	5:E:109:ALA:HB2	2.35	0.40
5:E:115:GLU:O	5:E:118:ALA:HB3	2.21	0.40
5:E:159:GLN:NE2	5:E:165:PHE:O	2.55	0.40
6:F:106:TYR:HA	6:F:109:GLU:OE2	2.21	0.40
6:F:135:ASP:HB3	6:F:151:PHE:HZ	1.86	0.40
6:F:154:LEU:HA	6:F:164:PRO:O	2.21	0.40
6:F:221:LEU:C	6:F:225:HIS:HB2	2.42	0.40
6:F:274:LYS:N	6:F:277:THR:OG1	2.43	0.40
7:H:122:SER:HA	7:H:164:PRO:HB2	2.03	0.40
8:O:38:ARG:HG3	8:O:104:LEU:HD22	2.04	0.40
8:O:72:LEU:HD12	8:O:147:TRP:HZ3	1.87	0.40
8:O:118:LEU:CD2	8:O:136:LEU:H	2.34	0.40
8:O:232:CYS:O	8:O:236:MET:HG2	2.21	0.40
8:O:239:VAL:HG13	8:O:270:MET:CE	2.51	0.40
8:O:291:LYS:HZ2	8:O:294:MET:HG2	1.86	0.40
8:O:574:VAL:CA	11:R:19:LYS:HE3	2.45	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:688:MET:HE3	8:O:730:TYR:CB	2.51	0.40
13:G:66:LEU:HD12	13:G:69:LEU:HD23	2.03	0.40
13:G:76:PRO:HB3	13:G:119:ASP:O	2.22	0.40
13:G:96:LEU:CA	13:G:99:LEU:HG	2.49	0.40
13:G:110:CYS:HB2	13:G:151:LEU:CD1	2.49	0.40
13:G:140:ILE:CD1	13:G:157:CYS:HB2	2.52	0.40
13:G:182:GLU:CG	13:G:183:ALA:N	2.84	0.40
1:A:132:GLU:HA	1:A:135:HIS:HB3	2.03	0.40
1:A:231:ALA:O	1:A:235:ILE:HG13	2.22	0.40
1:A:277:GLN:HG3	1:A:281:ILE:HD12	2.03	0.40
1:A:414:PHE:CE1	1:A:460:LEU:HD23	2.57	0.40
2:B:5:GLU:HB3	2:B:8:PHE:CB	2.44	0.40
2:B:212:LYS:HA	2:B:215:LYS:CB	2.52	0.40
4:D:31:GLU:HA	4:D:34:ILE:CD1	2.44	0.40
4:D:52:MET:SD	4:D:65:LEU:HD12	2.62	0.40
4:D:369:THR:HA	4:D:372:LYS:HB2	2.03	0.40
5:E:247:VAL:O	6:F:228:ILE:HG13	2.18	0.40
5:E:250:LEU:N	6:F:225:HIS:HD1	2.07	0.40
5:E:325:ASP:CG	5:E:329:ASN:HD22	2.21	0.40
6:F:217:VAL:CB	13:G:192:VAL:HG21	2.32	0.40
6:F:257:LEU:CD1	13:G:162:ILE:CG2	2.99	0.40
8:O:4:LYS:HB2	8:O:5:PRO:HD2	2.03	0.40
8:O:182:HIS:HB2	8:O:252:LYS:O	2.21	0.40
8:O:388:PRO:HB2	8:O:431:PHE:CD1	2.56	0.40
11:R:79:PHE:CD2	11:R:99:ARG:HB2	2.56	0.40
11:R:87:TRP:CB	11:R:95:PRO:HB3	2.49	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	A	415/491 (84%)	340 (82%)	75 (18%)	0	100	100
2	B	423/443 (96%)	367 (87%)	52 (12%)	4 (1%)	17	57
3	C	396/403 (98%)	328 (83%)	68 (17%)	0	100	100
4	D	395/406 (97%)	337 (85%)	58 (15%)	0	100	100
5	E	302/334 (90%)	240 (80%)	56 (18%)	6 (2%)	7	38
6	F	271/308 (88%)	224 (83%)	47 (17%)	0	100	100
7	H	166/209 (79%)	147 (89%)	19 (11%)	0	100	100
8	O	733/745 (98%)	588 (80%)	135 (18%)	10 (1%)	11	46
9	P	101/105 (96%)	76 (75%)	21 (21%)	4 (4%)	3	23
10	Q	97/99 (98%)	81 (84%)	14 (14%)	2 (2%)	7	36
11	R	82/86 (95%)	59 (72%)	22 (27%)	1 (1%)	13	50
12	V	144/150 (96%)	118 (82%)	25 (17%)	1 (1%)	22	63
13	G	204/206 (99%)	190 (93%)	11 (5%)	3 (2%)	10	46
All	All	3729/3985 (94%)	3095 (83%)	603 (16%)	31 (1%)	24	60

All (31) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	30	VAL
5	E	290	GLU
5	E	297	GLU
8	O	500	VAL
8	O	513	GLN
8	O	514	ALA
9	P	27	LEU
9	P	99	LEU
9	P	100	PRO
13	G	165	LYS
2	B	19	GLU
8	O	497	GLN
9	P	103	MET
10	Q	48	GLN
13	G	173	THR
2	B	21	SER
5	E	286	MET
8	O	81	GLU
8	O	232	CYS
8	O	496	ASN

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Mol	Chain	Res	Type
8	O	654	THR
12	V	139	SER
2	B	18	LEU
5	E	291	THR
10	Q	11	LYS
11	R	43	ALA
13	G	163	ARG
5	E	293	ASP
8	O	30	VAL
5	E	63	LEU
8	O	509	ILE

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
1	A	365/429 (85%)	363 (100%)	2 (0%)	88 93
2	B	392/405 (97%)	381 (97%)	11 (3%)	43 65
3	C	357/359 (99%)	354 (99%)	3 (1%)	81 89
4	D	346/347 (100%)	342 (99%)	4 (1%)	71 83
5	E	262/283 (93%)	256 (98%)	6 (2%)	50 70
6	F	251/270 (93%)	251 (100%)	0	100 100
7	H	144/173 (83%)	143 (99%)	1 (1%)	84 90
8	O	679/681 (100%)	654 (96%)	25 (4%)	34 58
9	P	91/92 (99%)	88 (97%)	3 (3%)	38 61
10	Q	90/90 (100%)	84 (93%)	6 (7%)	16 41
11	R	73/75 (97%)	73 (100%)	0	100 100
12	V	138/138 (100%)	136 (99%)	2 (1%)	67 80
13	G	179/179 (100%)	174 (97%)	5 (3%)	43 65
All	All	3367/3521 (96%)	3299 (98%)	68 (2%)	57 74

All (68) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	424	ARG
1	A	463	ARG
2	B	110	LYS
2	B	140	LYS
2	B	162	ARG
2	B	167	LYS
2	B	170	LYS
2	B	173	ARG
2	B	225	LYS
2	B	361	LYS
2	B	368	ARG
2	B	396	ASN
2	B	429	ASN
3	C	119	ARG
3	C	312	LYS
3	C	341	MET
4	D	170	ARG
4	D	209	ASN
4	D	271	ARG
4	D	308	ASN
5	E	282	ARG
5	E	284	SER
5	E	291	THR
5	E	295	LYS
5	E	296	SER
5	E	298	ASP
7	H	116	ARG
8	O	27	LEU
8	O	28	GLU
8	O	31	GLU
8	O	32	ARG
8	O	67	ASN
8	O	114	LYS
8	O	251	ARG
8	O	311	MET
8	O	438	MET
8	O	492	ASN
8	O	493	PHE
8	O	494	ILE
8	O	495	LYS
8	O	496	ASN
8	O	502	ASP
8	O	503	LEU

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Mol	Chain	Res	Type
8	O	505	ILE
8	O	510	TYR
8	O	566	MET
8	O	657	MET
8	O	660	ASP
8	O	681	GLN
8	O	686	ARG
8	O	699	LEU
8	O	712	ASN
9	P	19	LYS
9	P	68	ARG
9	P	80	ARG
10	Q	24	MET
10	Q	28	THR
10	Q	38	ARG
10	Q	56	LYS
10	Q	64	ASN
10	Q	98	SER
12	V	67	ASN
12	V	182	ARG
13	G	12	LEU
13	G	123	ARG
13	G	140	ILE
13	G	164	LYS
13	G	172	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (119) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	101	GLN
1	A	187	ASN
1	A	191	ASN
1	A	216	ASN
1	A	233	HIS
1	A	277	GLN
1	A	345	ASN
1	A	407	ASN
1	A	412	GLN
1	A	423	HIS
1	A	499	GLN
2	B	25	ASN
2	B	74	GLN

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Mol	Chain	Res	Type
2	B	79	ASN
2	B	106	ASN
2	B	113	ASN
2	B	144	ASN
2	B	169	GLN
2	B	230	HIS
2	B	255	HIS
2	B	264	ASN
2	B	284	ASN
2	B	292	ASN
2	B	297	GLN
2	B	313	ASN
2	B	320	ASN
2	B	321	ASN
2	B	333	ASN
2	B	357	GLN
2	B	396	ASN
2	B	406	ASN
2	B	413	HIS
2	B	429	ASN
3	C	23	GLN
3	C	82	GLN
3	C	109	ASN
3	C	136	ASN
3	C	137	GLN
3	C	207	GLN
3	C	277	ASN
3	C	280	ASN
3	C	340	HIS
3	C	400	ASN
3	C	402	GLN
4	D	19	HIS
4	D	56	ASN
4	D	86	HIS
4	D	176	ASN
4	D	288	HIS
4	D	341	GLN
4	D	360	HIS
4	D	373	GLN
4	D	375	GLN
4	D	383	ASN
5	E	35	GLN

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Mol	Chain	Res	Type
5	E	36	GLN
5	E	37	GLN
5	E	49	HIS
5	E	126	GLN
5	E	132	ASN
5	E	155	GLN
5	E	204	GLN
5	E	243	ASN
5	E	279	GLN
5	E	330	GLN
5	E	332	ASN
6	F	50	ASN
6	F	61	GLN
6	F	111	GLN
6	F	137	HIS
6	F	224	GLN
6	F	232	HIS
6	F	282	GLN
6	F	307	ASN
6	F	310	ASN
7	H	39	GLN
7	H	97	GLN
7	H	209	ASN
8	O	15	ASN
8	O	67	ASN
8	O	68	HIS
8	O	169	ASN
8	O	186	ASN
8	O	190	HIS
8	O	234	GLN
8	O	255	HIS
8	O	267	GLN
8	O	268	GLN
8	O	284	ASN
8	O	288	GLN
8	O	318	HIS
8	O	409	ASN
8	O	432	GLN
8	O	445	HIS
8	O	459	ASN
8	O	487	ASN
8	O	488	ASN

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Mol	Chain	Res	Type
8	O	491	ASN
8	O	513	GLN
8	O	521	GLN
8	O	538	GLN
8	O	589	ASN
8	O	625	HIS
8	O	658	GLN
8	O	681	GLN
8	O	701	GLN
8	O	706	GLN
8	O	712	ASN
10	Q	48	GLN
10	Q	62	ASN
11	R	76	ASN
12	V	67	ASN
13	G	14	GLN
13	G	65	GLN
13	G	124	ASN
13	G	191	GLN
13	G	197	GLN
13	G	202	HIS
13	G	206	GLN

5.3.3 RNA (i)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains (i)

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

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 1 ligands modelled in this entry, 1 is monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

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
8	O	6
5	E	4
4	D	3
9	P	3
6	F	3
12	V	3
2	B	1
11	R	1
13	G	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	D	315:LEU	C	316:TYR	N	14.37
1	B	192:THR	C	193:GLN	N	11.96
1	O	693:VAL	C	694:LEU	N	4.82
1	P	29:ARG	C	30:ILE	N	4.76
1	D	389:SER	C	390:GLN	N	3.72
1	F	246:GLU	C	247:ALA	N	3.58
1	V	146:PRO	C	147:ILE	N	3.56
1	F	273:ASP	C	274:LYS	N	3.54
1	R	35:TRP	C	36:ASP	N	3.26
1	F	249:GLU	C	250:VAL	N	3.22
1	V	207:ALA	C	208:ALA	N	3.09
1	E	281:GLY	C	282:ARG	N	2.97
1	O	657:MET	C	658:GLN	N	2.84

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	O	528:ALA	C	529:ILE	N	2.74
1	O	660:ASP	C	661:THR	N	2.61
1	D	386:GLU	C	387:LYS	N	2.55
1	E	294:ARG	C	295:LYS	N	2.54
1	O	503:LEU	C	504:GLY	N	2.24
1	E	298:ASP	C	299:LYS	N	2.18
1	P	99:LEU	C	100:PRO	N	1.61
1	E	289:LEU	C	290:GLU	N	1.17
1	V	206:ILE	C	207:ALA	N	1.10
1	G	172:LYS	C	173:THR	N	1.10
1	P	102:VAL	C	103:MET	N	0.83
1	O	499:THR	C	500:VAL	N	0.48

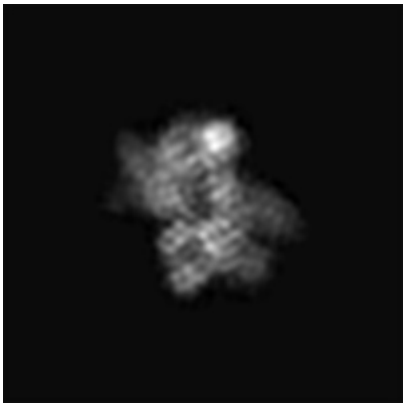
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-4736. These allow visual inspection of the internal detail of the map and identification of artifacts.

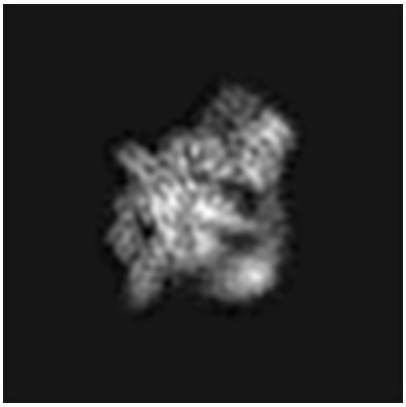
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

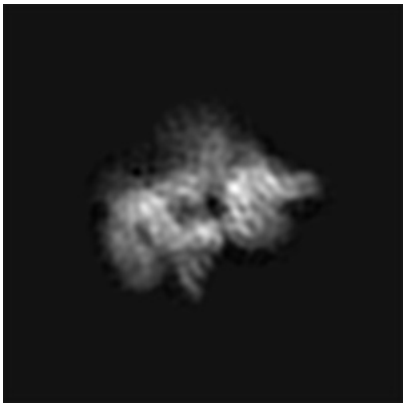
6.1.1 Primary map



X



Y



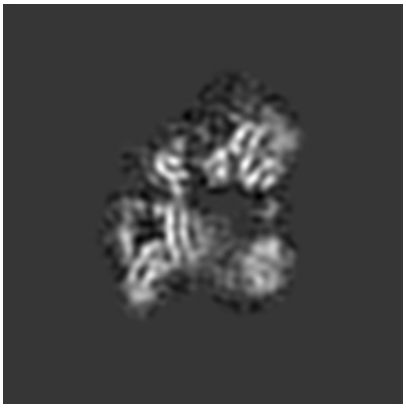
Z

The images above show the map projected in three orthogonal directions.

6.2 Central slices

6.2.1 Primary map

X Index: 150



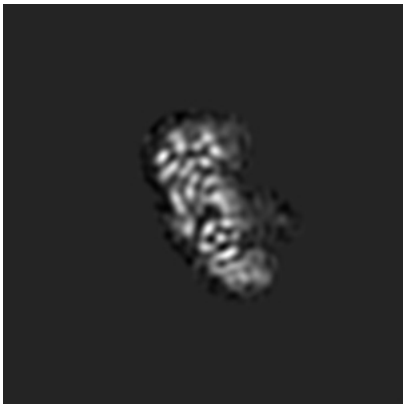
Y Index: 150

Z Index: 150

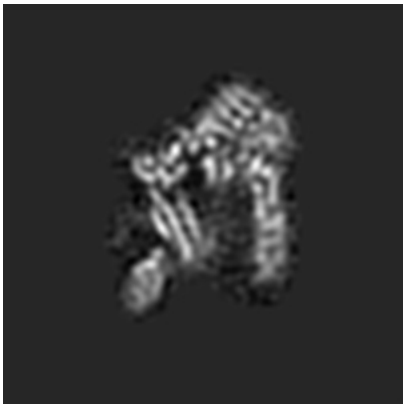
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

6.3.1 Primary map



X Index: 179



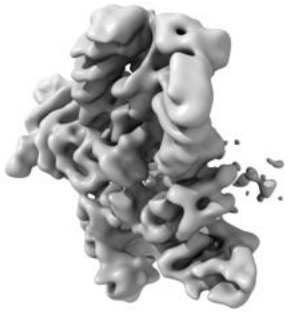
Y Index: 159

Z Index: 191

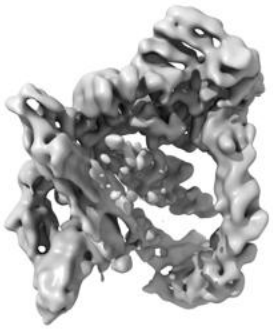
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal surface views (i)

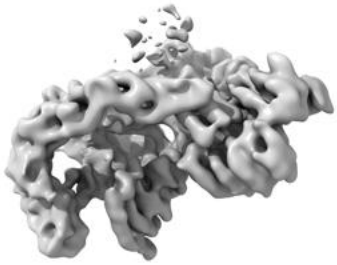
6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 6.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

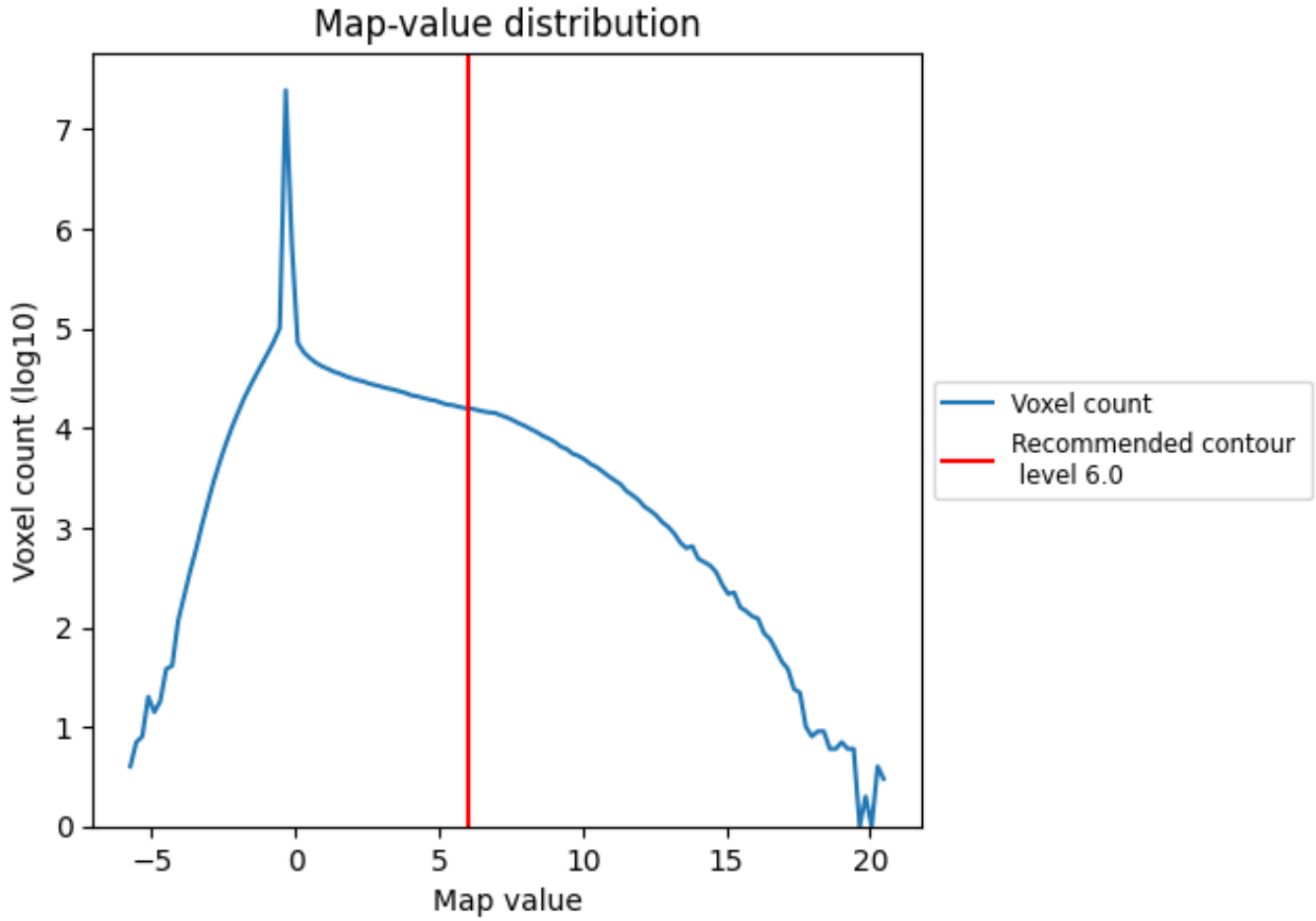
6.5 Mask visualisation (i)

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

7 Map analysis

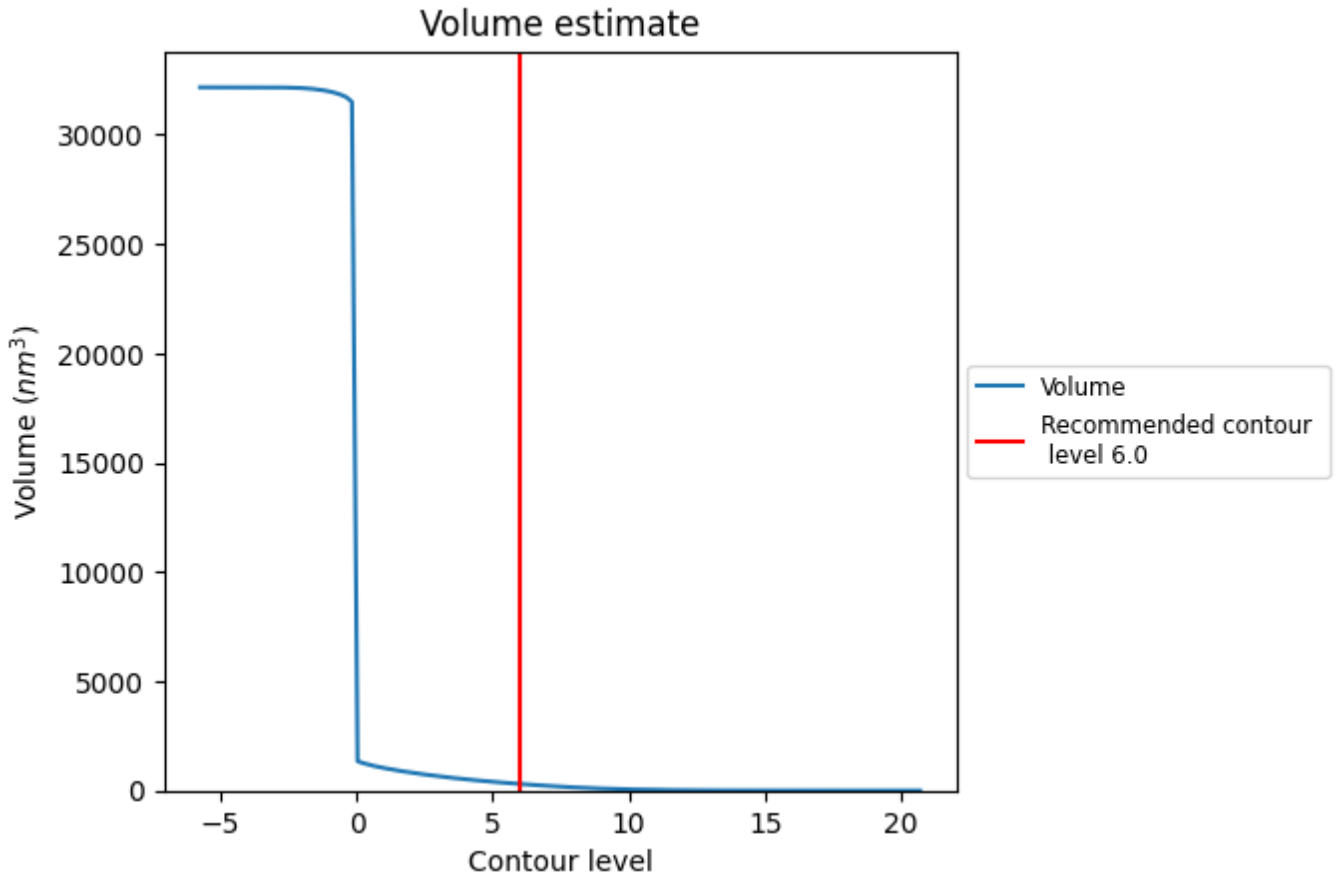
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

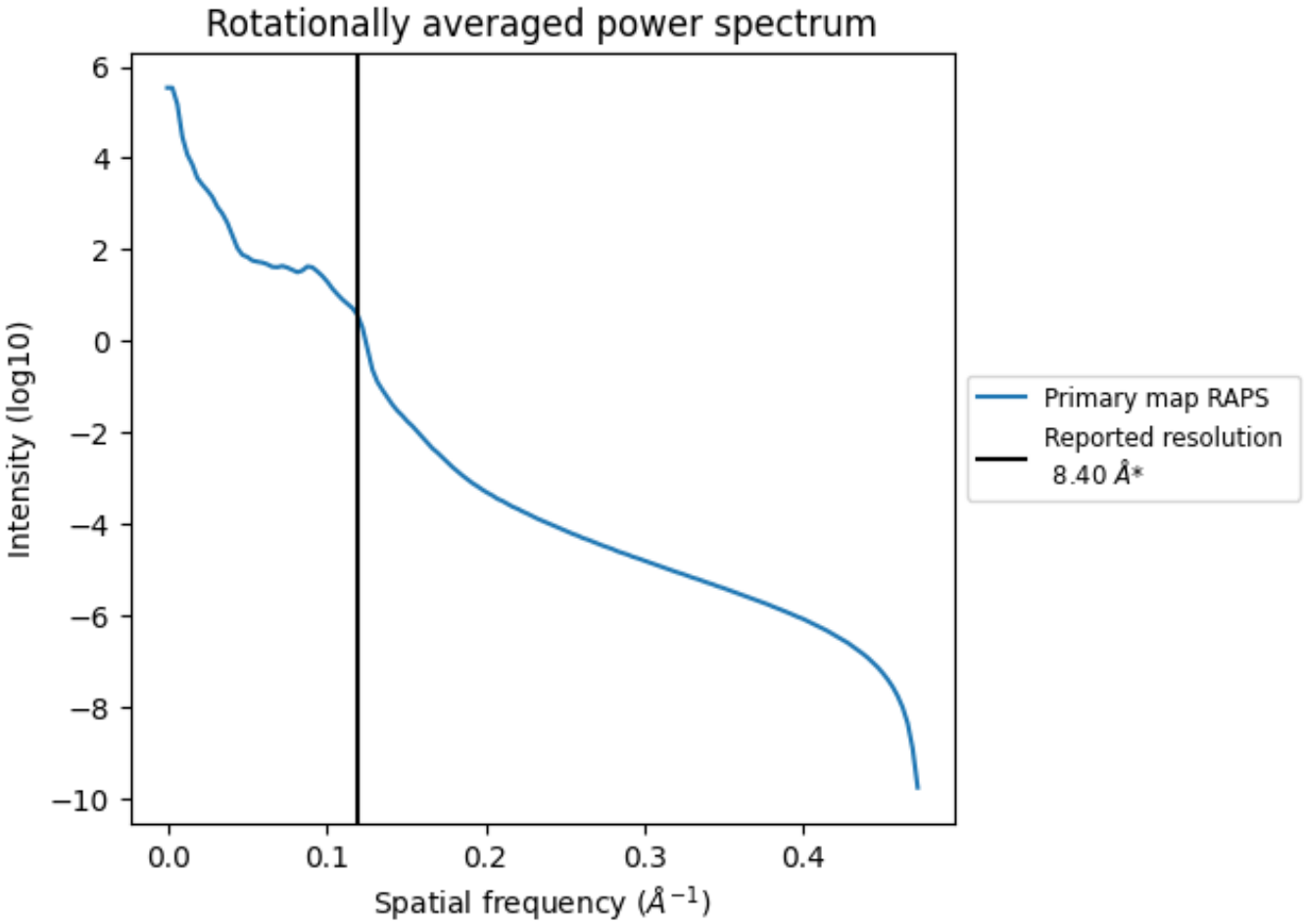
7.2 Volume estimate



The volume at the recommended contour level is 302 nm^3; this corresponds to an approximate mass of 273 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum (i)



*Reported resolution corresponds to spatial frequency of 0.119 Å^{-1}

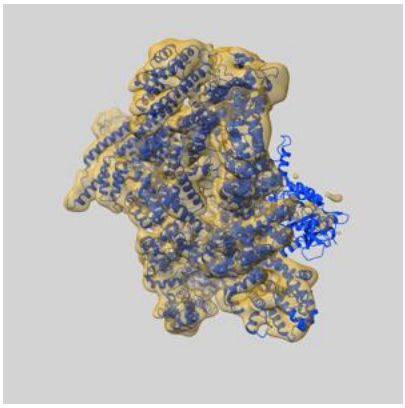
8 Fourier-Shell correlation

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

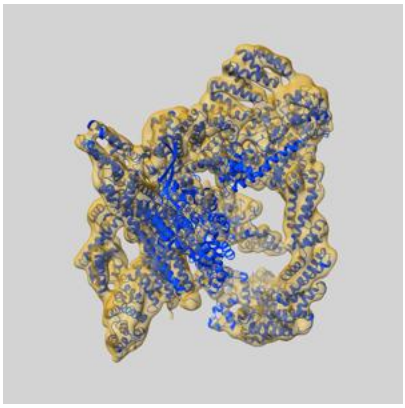
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-4736 and PDB model 6R6H. Per-residue inclusion information can be found in section 3 on page 7.

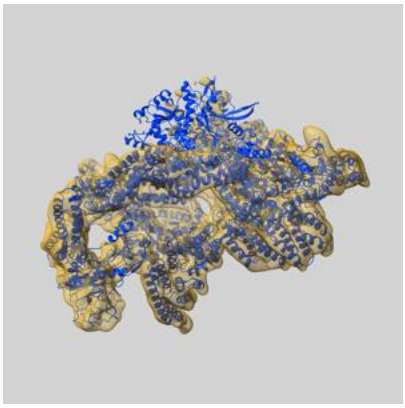
9.1 Map-model overlay



X



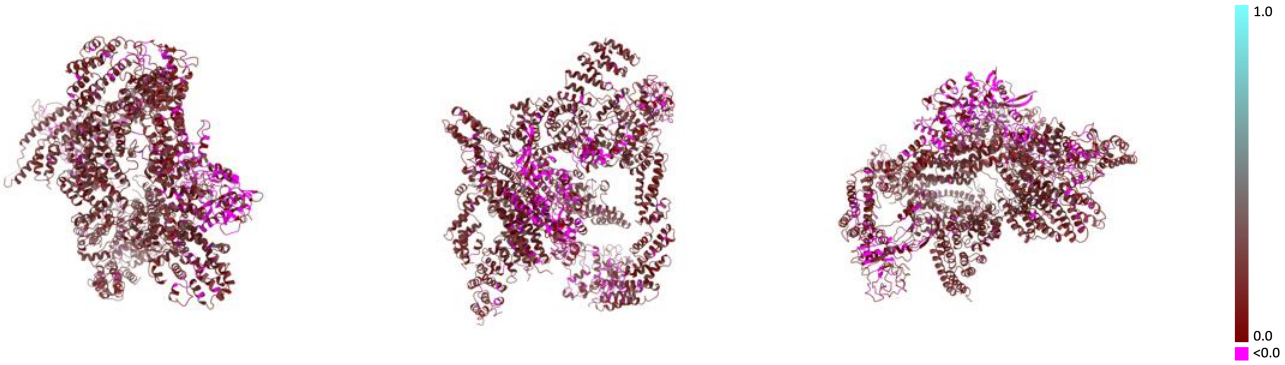
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 6.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

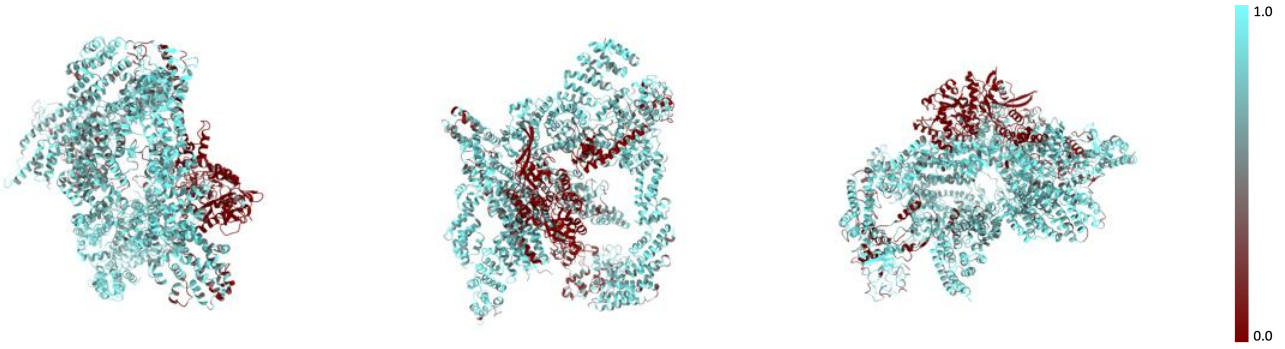
9.2 Q-score mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

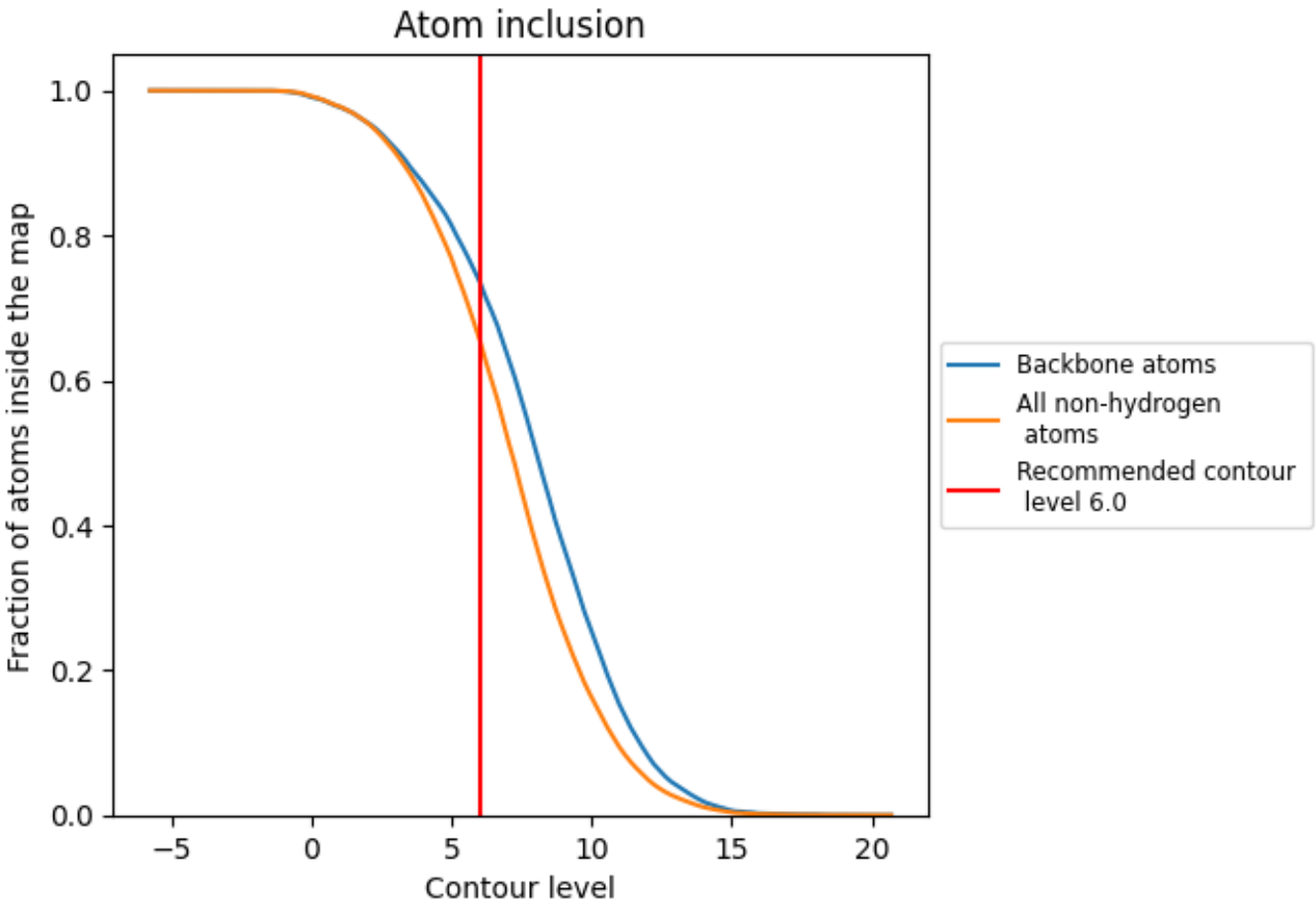
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (6.0).

9.4 Atom inclusion (i)



At the recommended contour level, 74% of all backbone atoms, 66% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (6.0) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.6565	0.1460
A	0.7589	0.1950
B	0.7650	0.1810
C	0.8517	0.1870
D	0.8294	0.1940
E	0.1977	0.0600
F	0.3110	0.0510
G	0.6106	0.1550
H	0.8722	0.1880
O	0.6744	0.1360
P	0.6708	0.1300
Q	0.5676	0.0640
R	0.6133	0.0940
V	0.4747	0.1140