



Full wwPDB EM Validation Report ⓘ

Nov 6, 2022 – 06:58 PM EST

PDB ID : 6NR9
EMDB ID : EMD-0491
Title : hTRiC-hPFD Class5
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Deposited on : 2019-01-23
Resolution : 8.50 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) : 2.31.2

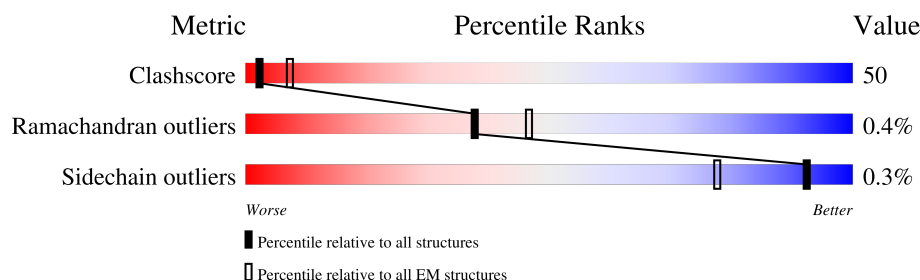
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 8.50 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 $\leq 5\%$. 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	534	<div> <div>28%</div> <div>24%</div> <div>72%</div> <div>..</div> </div>
1	I	534	<div> <div>42%</div> <div>34%</div> <div>64%</div> <div>.</div> </div>
2	B	509	<div> <div>46%</div> <div>29%</div> <div>70%</div> <div>.</div> </div>
2	J	509	<div> <div>51%</div> <div>34%</div> <div>66%</div> <div>.</div> </div>
3	C	513	<div> <div>26%</div> <div>24%</div> <div>74%</div> <div>..</div> </div>
3	K	513	<div> <div>42%</div> <div>32%</div> <div>67%</div> <div>.</div> </div>
4	D	514	<div> <div>12%</div> <div>26%</div> <div>72%</div> <div>..</div> </div>
4	L	514	<div> <div>36%</div> <div>30%</div> <div>68%</div> <div>.</div> </div>

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Mol	Chain	Length	Quality of chain
5	E	517	
5	M	517	
6	F	515	
6	N	515	
7	G	514	
7	O	514	
8	H	514	
8	P	514	
9	1	107	
10	2	103	
11	3	132	
12	4	104	
13	5	127	
14	6	102	

2 Entry composition

There are 14 unique types of molecules in this entry. The entry contains 68284 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called T-complex protein 1 subunit alpha.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	521	Total	C	N	O	S	0	0
			3956	2479	691	763	23		
1	I	534	Total	C	N	O	S	0	0
			4056	2540	709	783	24		

- Molecule 2 is a protein called T-complex protein 1 subunit beta.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	509	Total	C	N	O	S	0	0
			3829	2392	673	745	19		
2	J	508	Total	C	N	O	S	0	0
			3823	2389	672	743	19		

- Molecule 3 is a protein called T-complex protein 1 subunit gamma.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C	509	Total	C	N	O	S	0	0
			3956	2465	697	764	30		
3	K	513	Total	C	N	O	S	0	0
			3985	2481	703	771	30		

- Molecule 4 is a protein called T-complex protein 1 subunit delta.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	D	508	Total	C	N	O	S	0	0
			3832	2398	665	746	23		
4	L	513	Total	C	N	O	S	0	0
			3873	2422	674	754	23		

- Molecule 5 is a protein called T-complex protein 1 subunit epsilon.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	E	517	Total	C	N	O	S	0	0
			3974	2483	692	769	30		
5	M	517	Total	C	N	O	S	0	0
			3974	2483	692	769	30		

- Molecule 6 is a protein called T-complex protein 1 subunit zeta.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	F	514	Total	C	N	O	S	0	0
			3945	2478	690	757	20		
6	N	513	Total	C	N	O	S	0	0
			3940	2476	689	755	20		

- Molecule 7 is a protein called T-complex protein 1 subunit eta.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	G	512	Total	C	N	O	S	0	0
			3936	2485	682	746	23		
7	O	514	Total	C	N	O	S	0	0
			3947	2490	684	750	23		

- Molecule 8 is a protein called T-complex protein 1 subunit theta.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	H	510	Total	C	N	O	S	0	0
			3892	2451	661	754	26		
8	P	509	Total	C	N	O	S	0	0
			3884	2447	659	752	26		

- Molecule 9 is a protein called Prefoldin subunit 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	1	107	Total	C	N	O	S	0	0
			874	546	150	173	5		

- Molecule 10 is a protein called Prefoldin subunit 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	2	103	Total	C	N	O	S	0	0
			830	513	151	163	3		

- Molecule 11 is a protein called Prefoldin subunit 3.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	3	132	Total	C	N	O	S	0	0
			1087	690	179	210	8		

- Molecule 12 is a protein called Prefoldin subunit 4.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	4	104	Total	C	N	O	S	0	0
			847	523	142	177	5		

- Molecule 13 is a protein called Prefoldin subunit 5.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	5	127	Total	C	N	O	S	0	0
			1018	647	166	197	8		

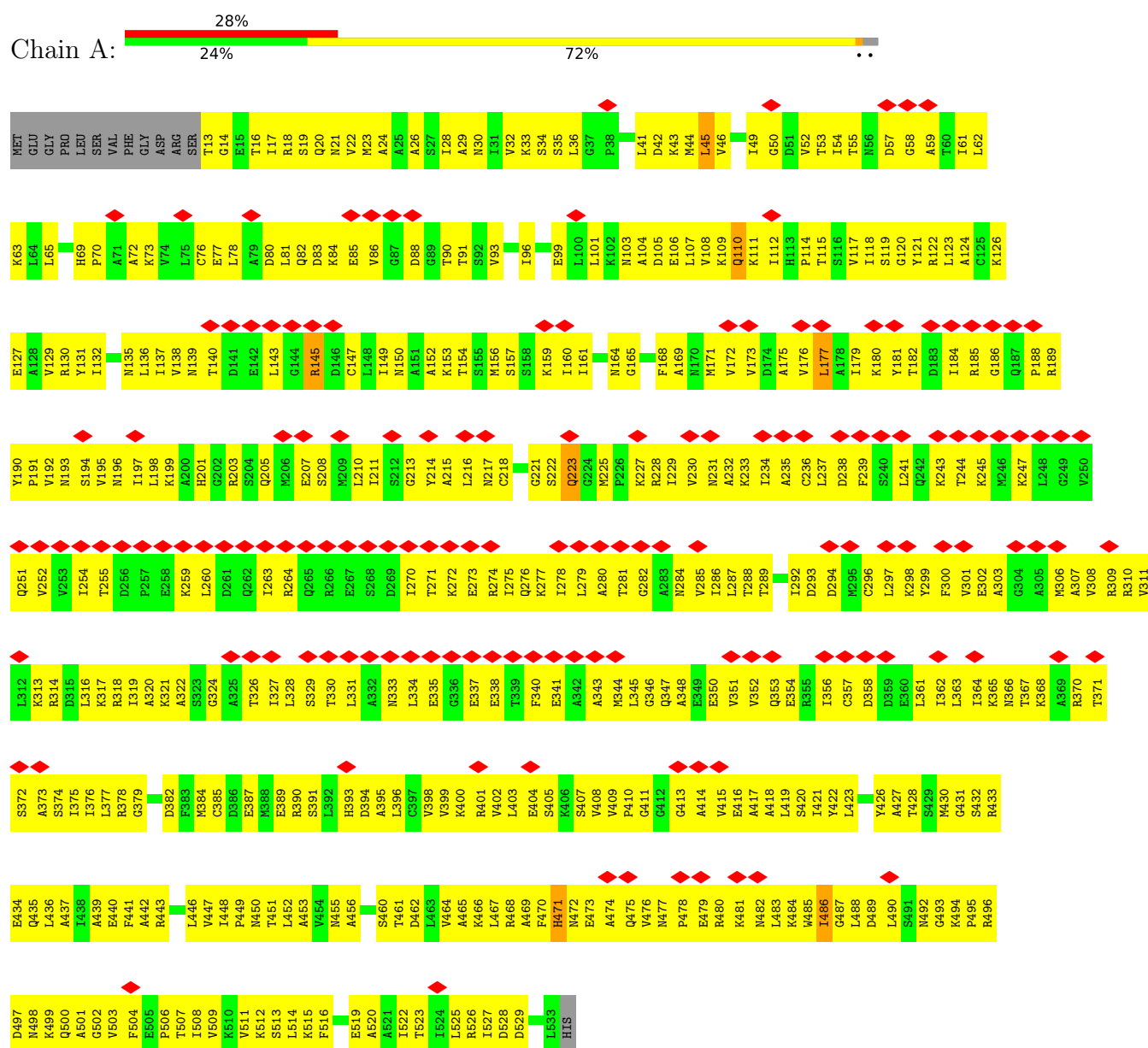
- Molecule 14 is a protein called Prefoldin subunit 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	6	102	Total	C	N	O	S	0	0
			826	511	148	166	1		

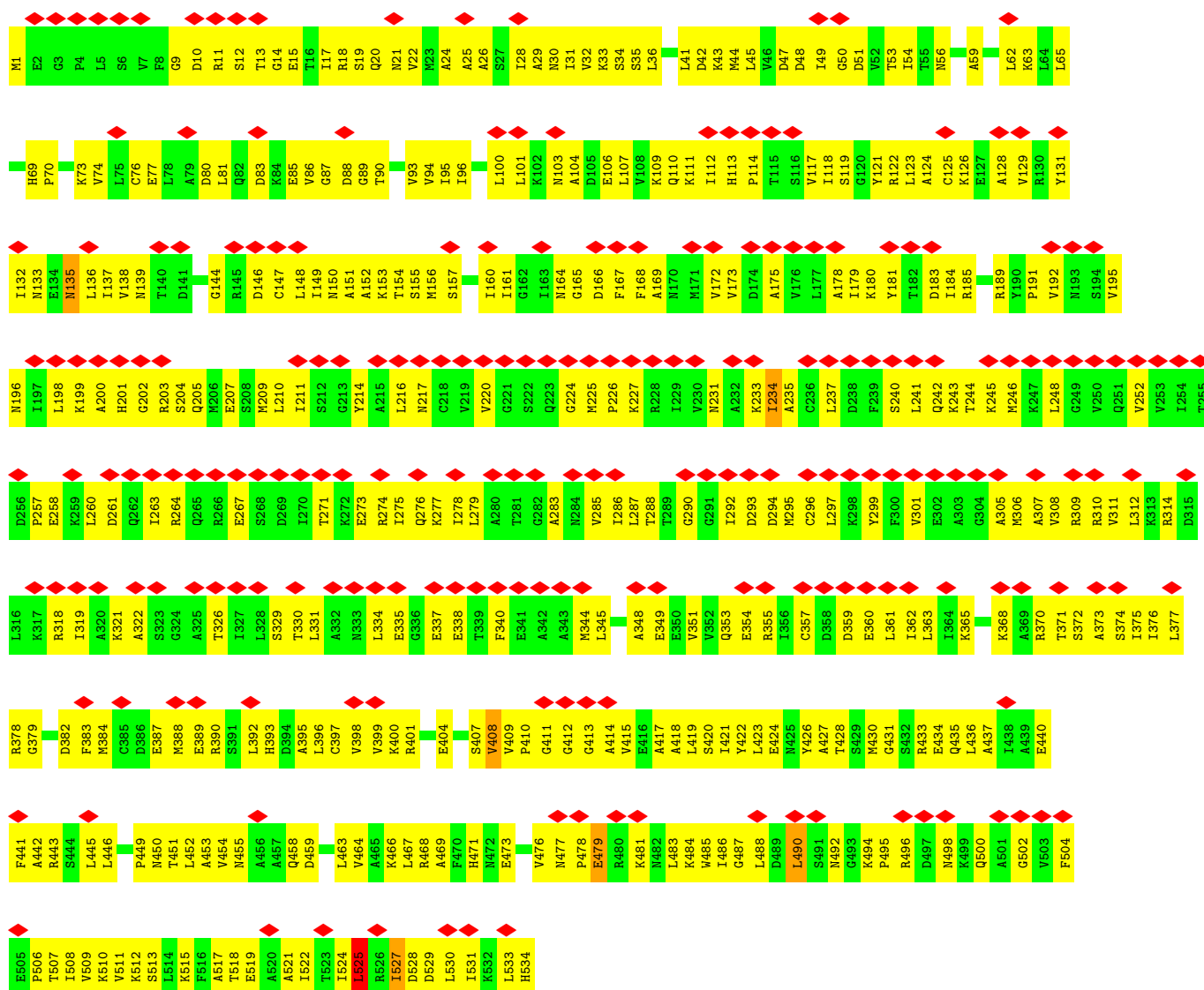
3 Residue-property plots

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 sequence, but not in the model, are shown in grey.

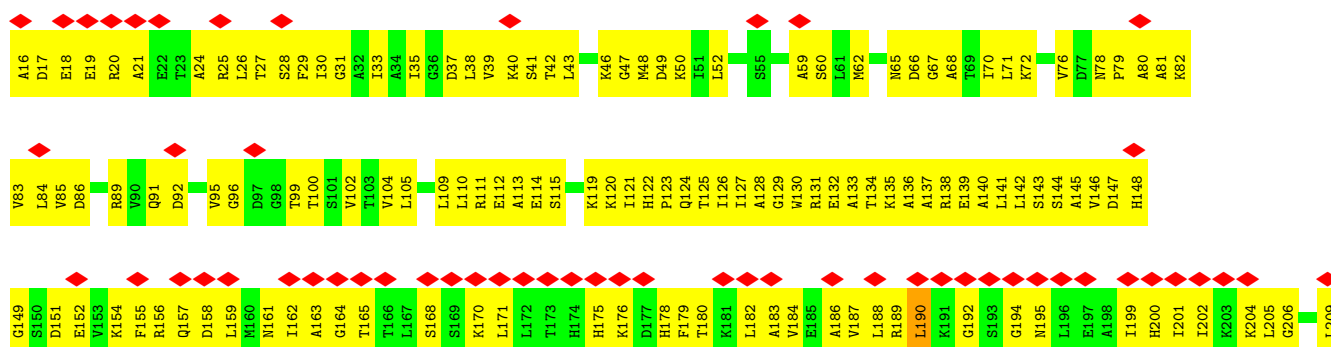
• Molecule 1: T-complex protein 1 subunit alpha

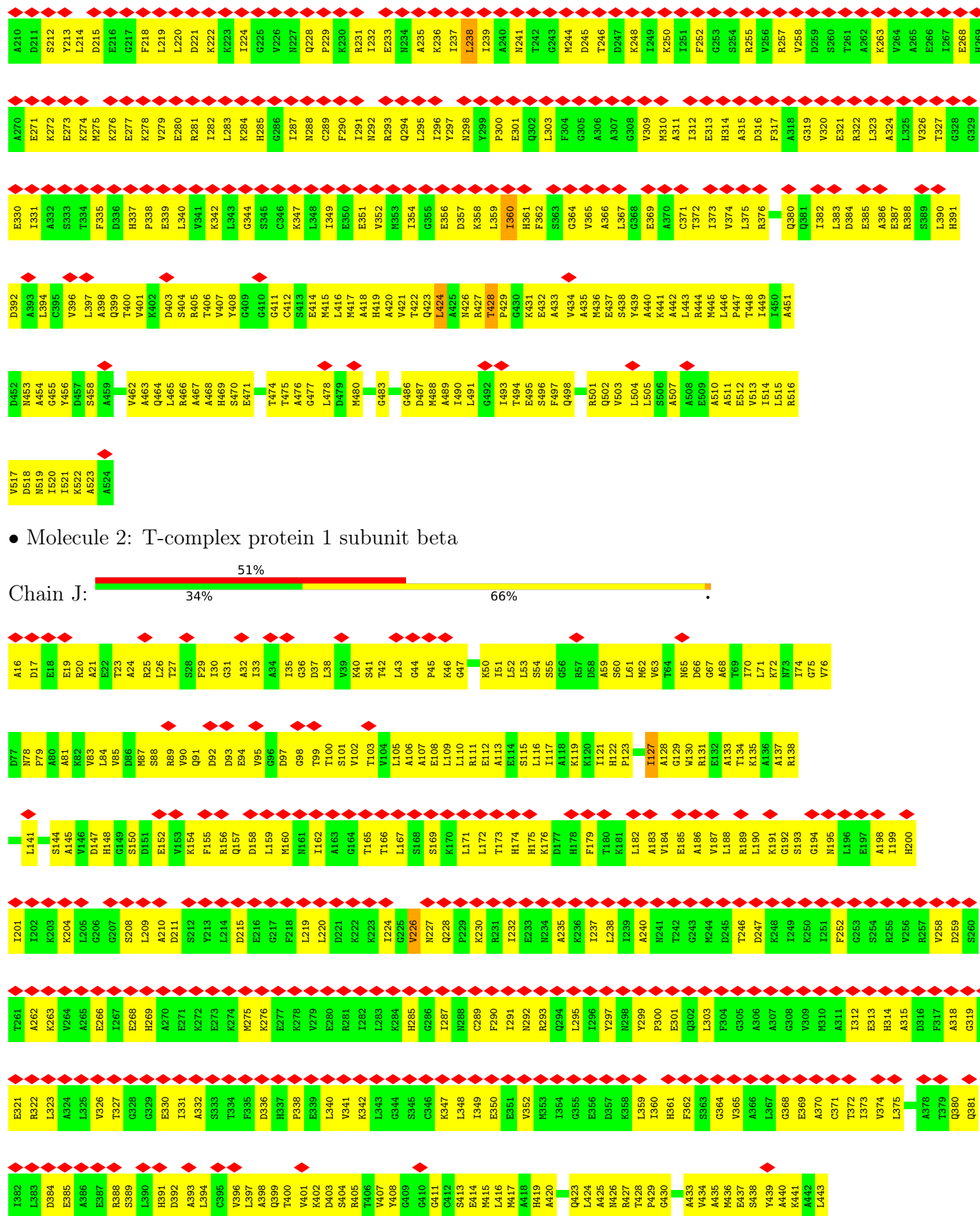


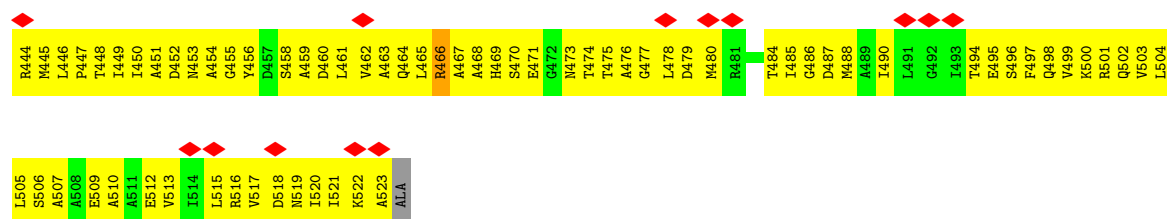
• Molecule 1: T-complex protein 1 subunit alpha



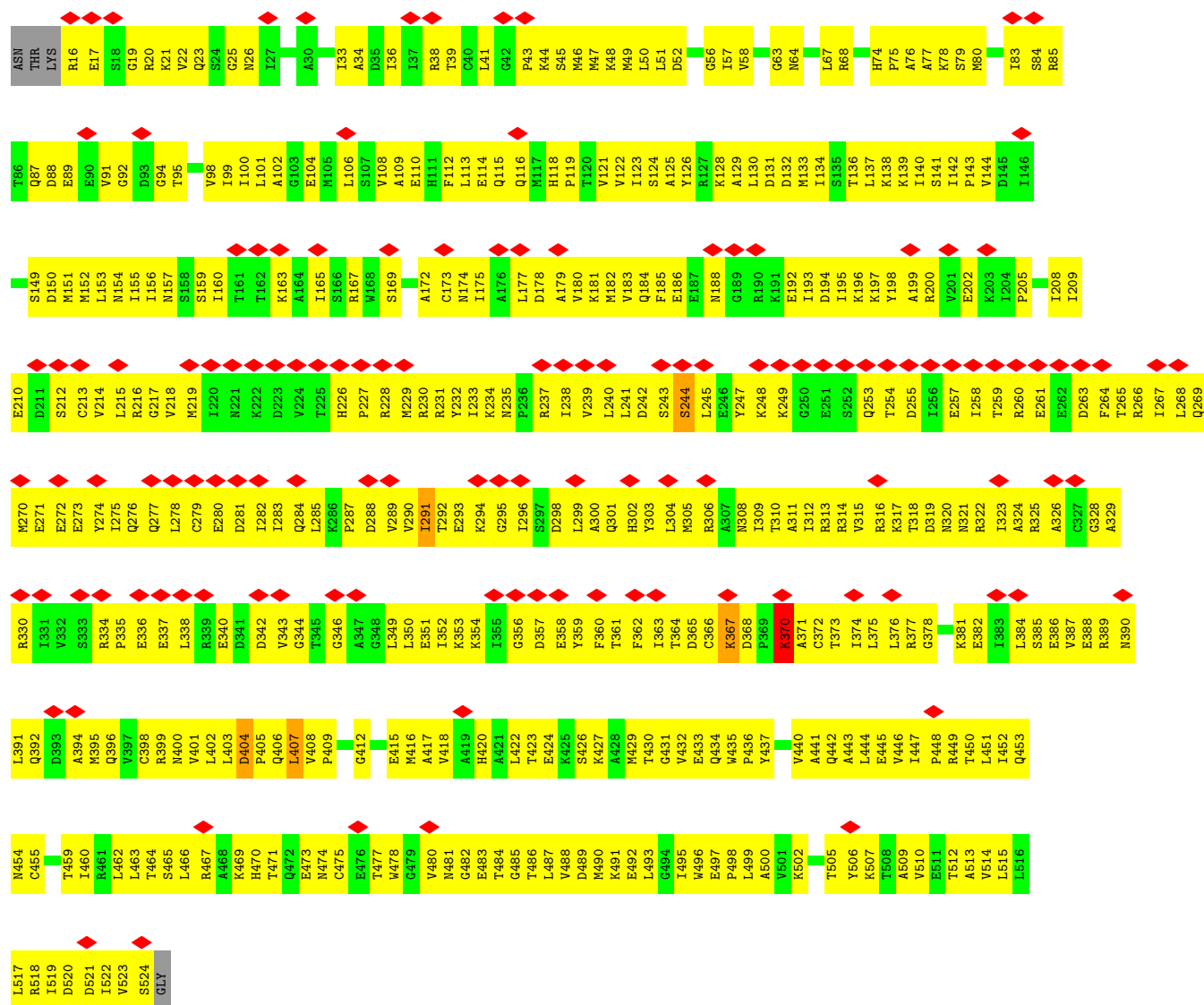
• Molecule 2: T-complex protein 1 subunit beta





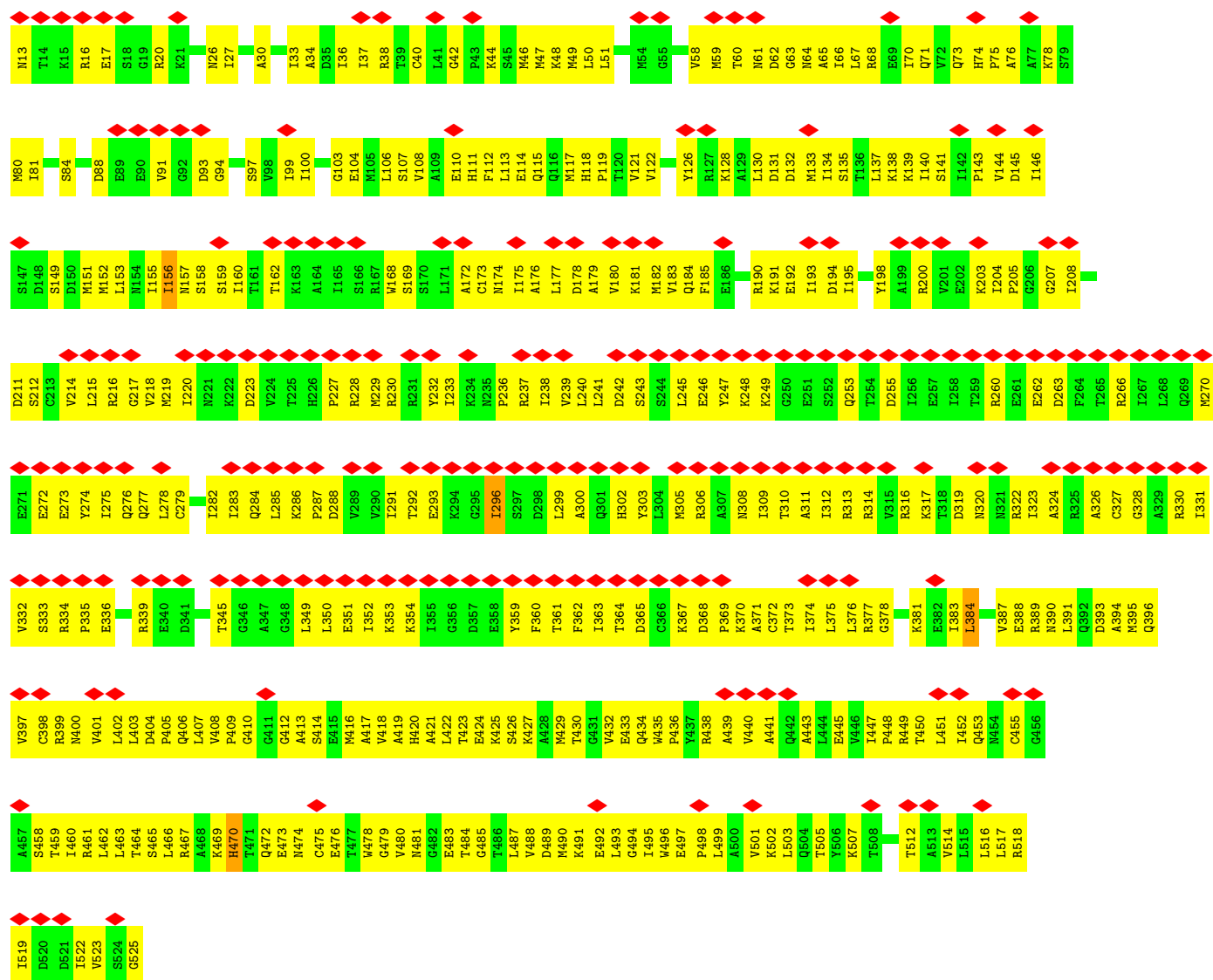


• Molecule 3: T-complex protein 1 subunit gamma

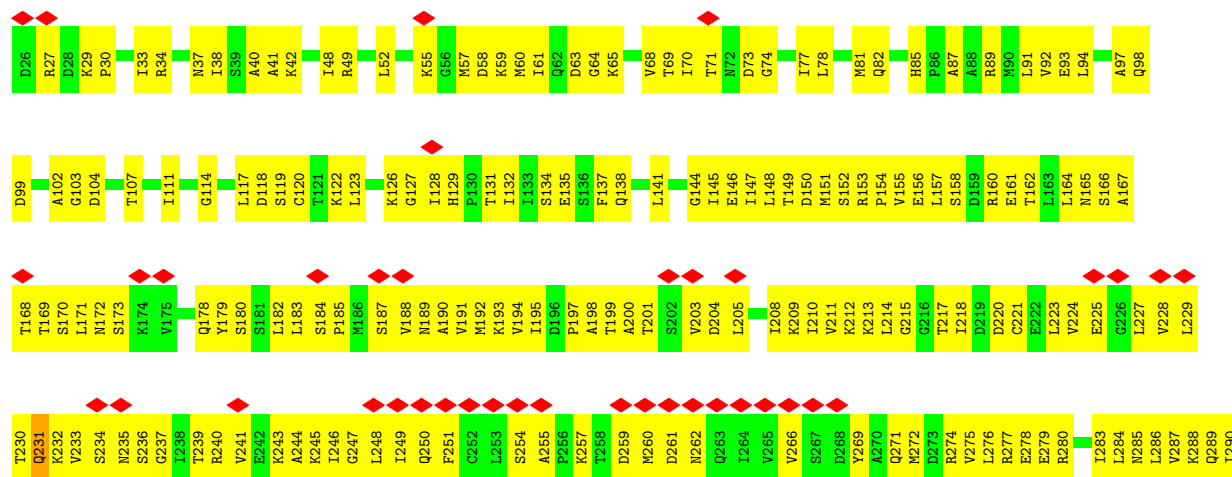


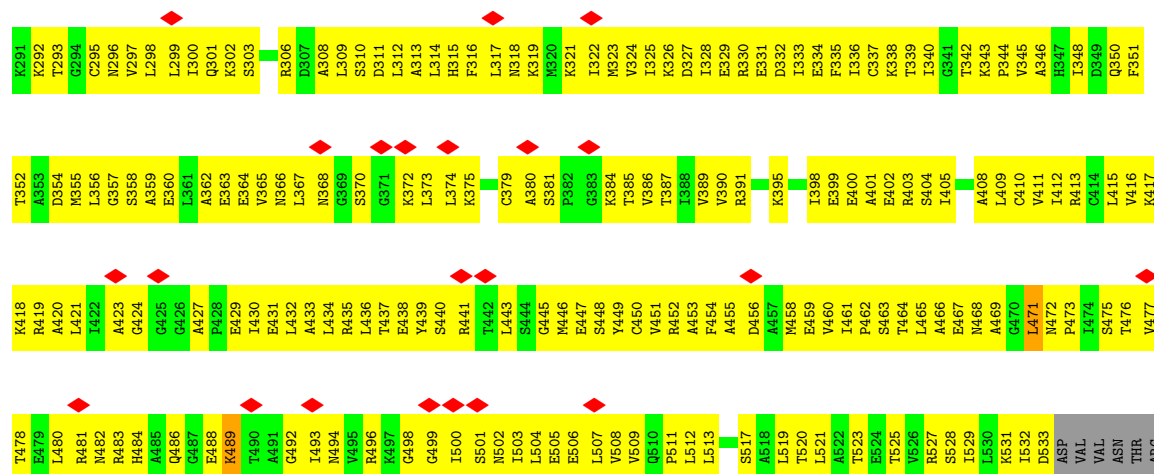
• Molecule 3: T-complex protein 1 subunit gamma



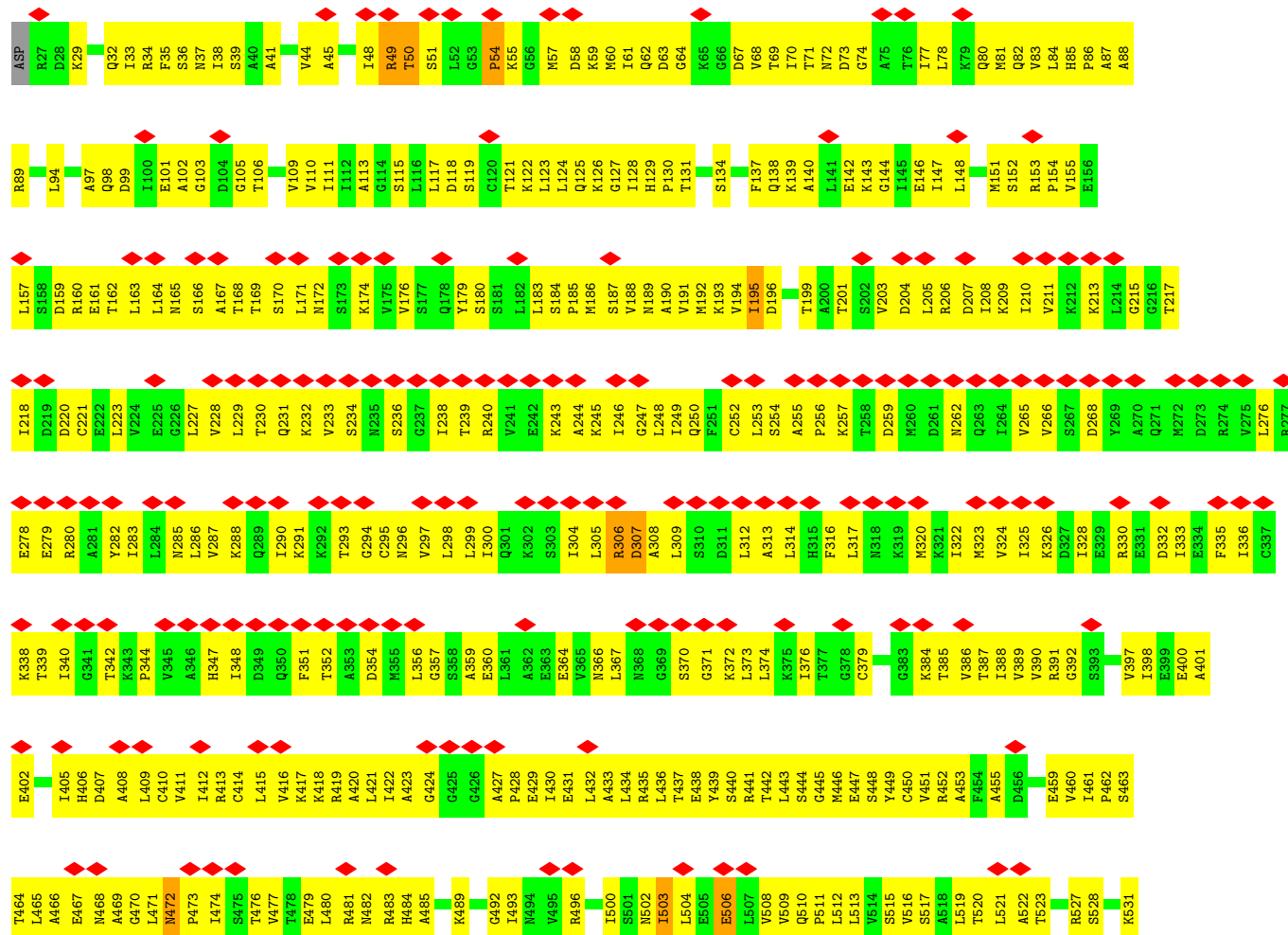


• Molecule 4: T-complex protein 1 subunit delta



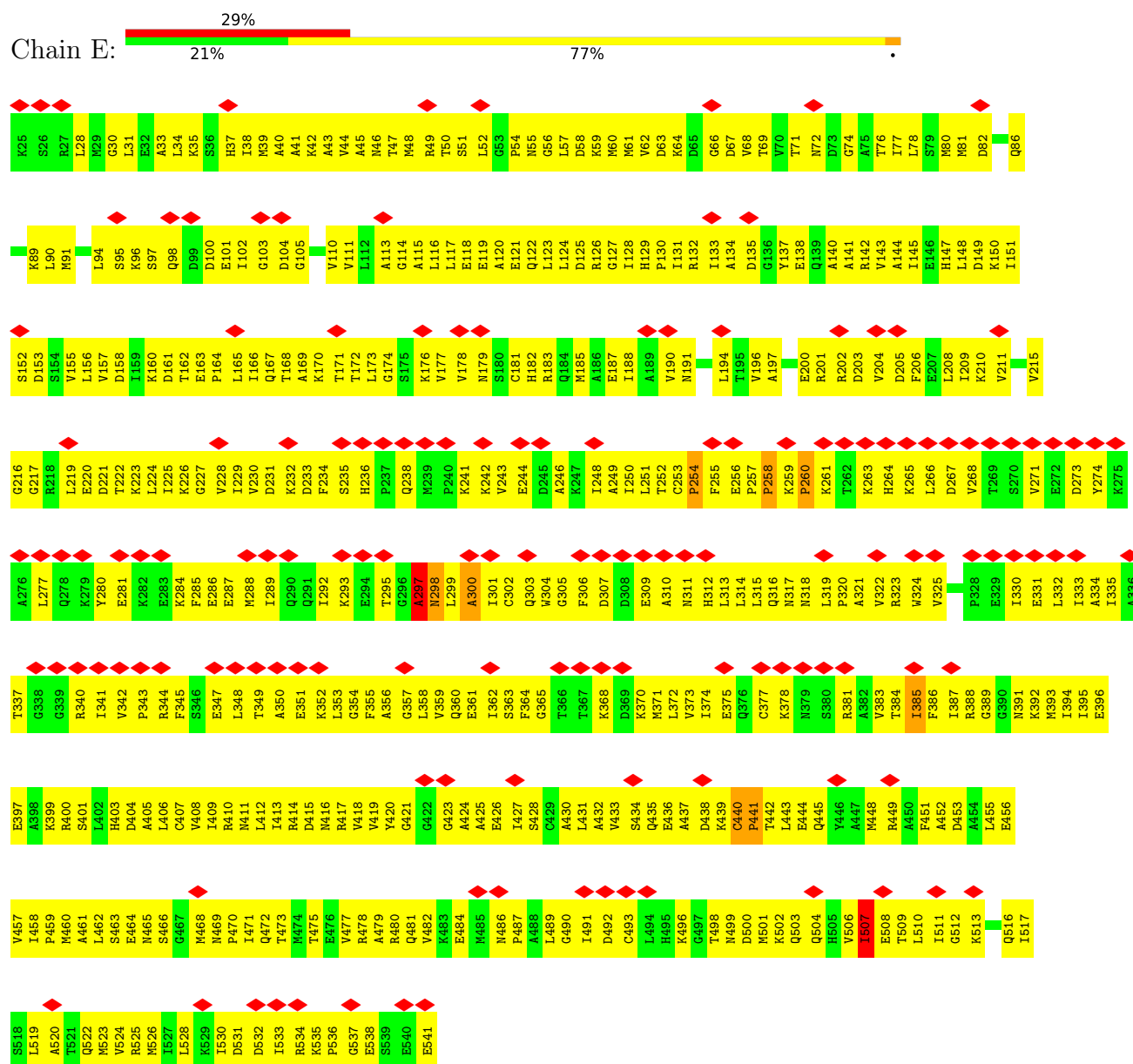


• Molecule 4: T-complex protein 1 subunit delta



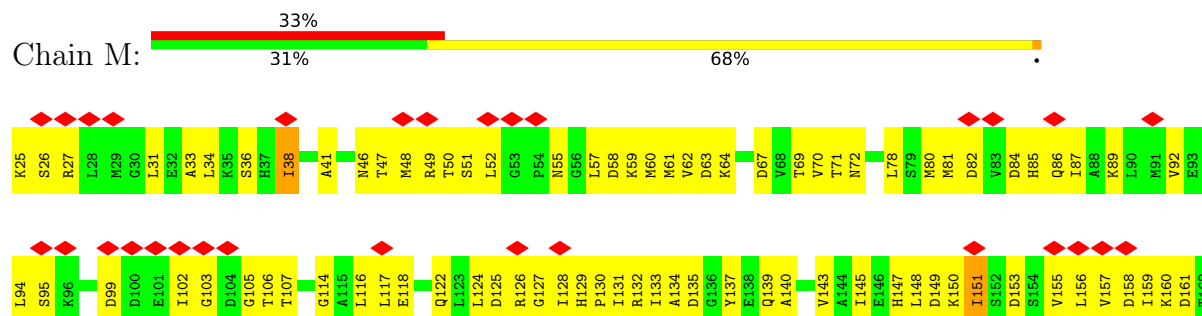
• Molecule 5: T-complex protein 1 subunit epsilon

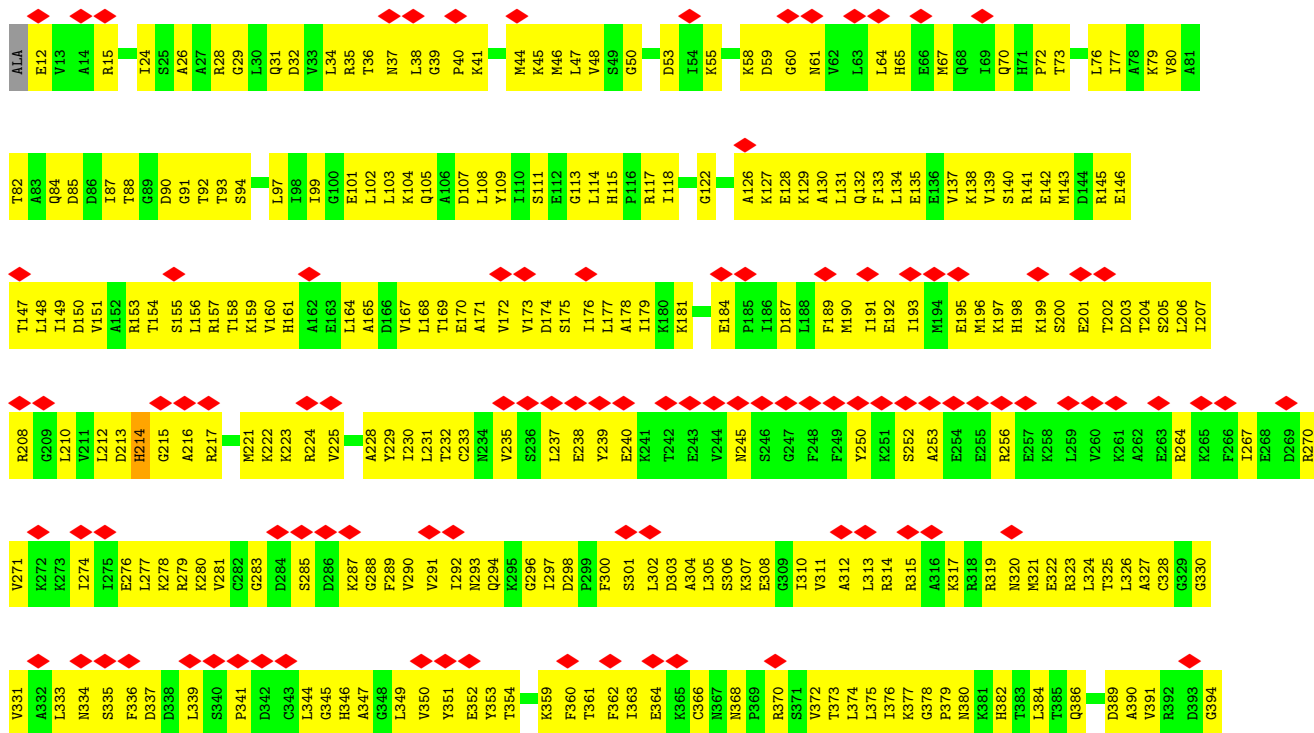
Chain E:

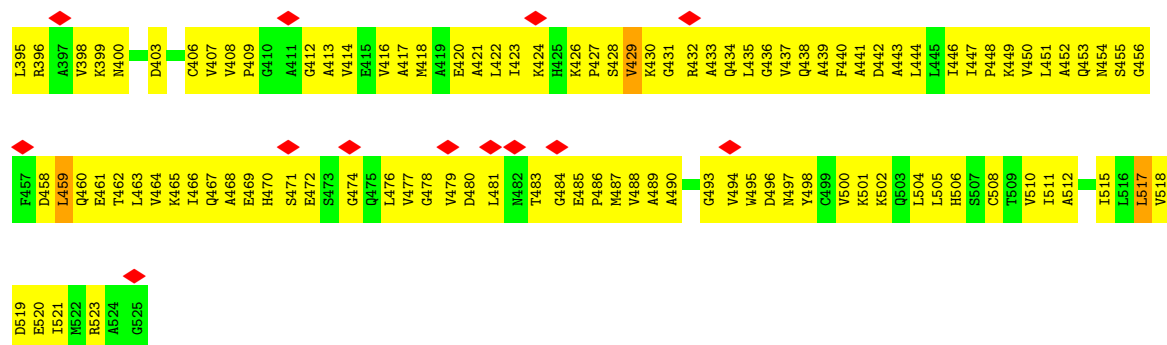


• Molecule 5: T-complex protein 1 subunit epsilon

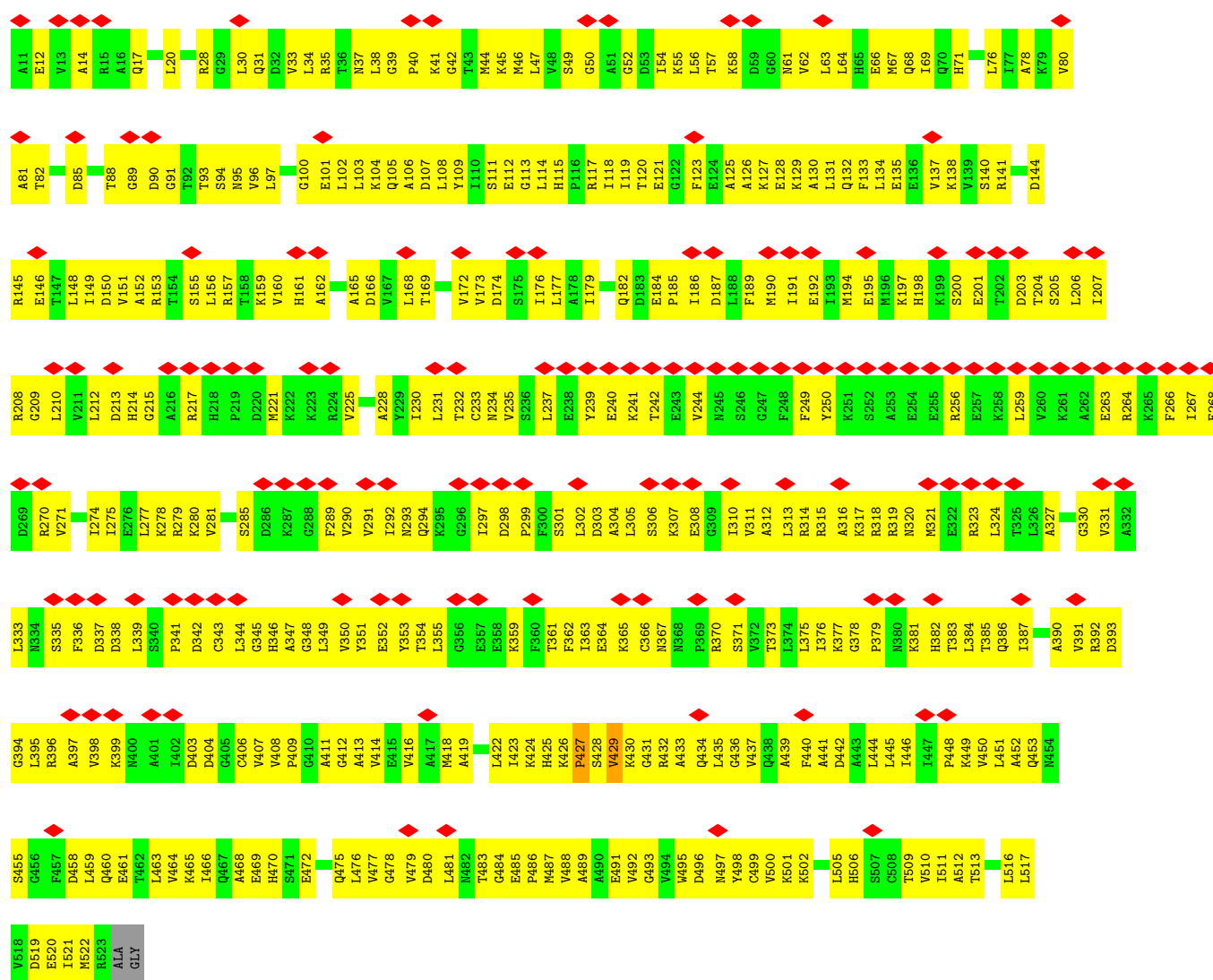
Chain M:





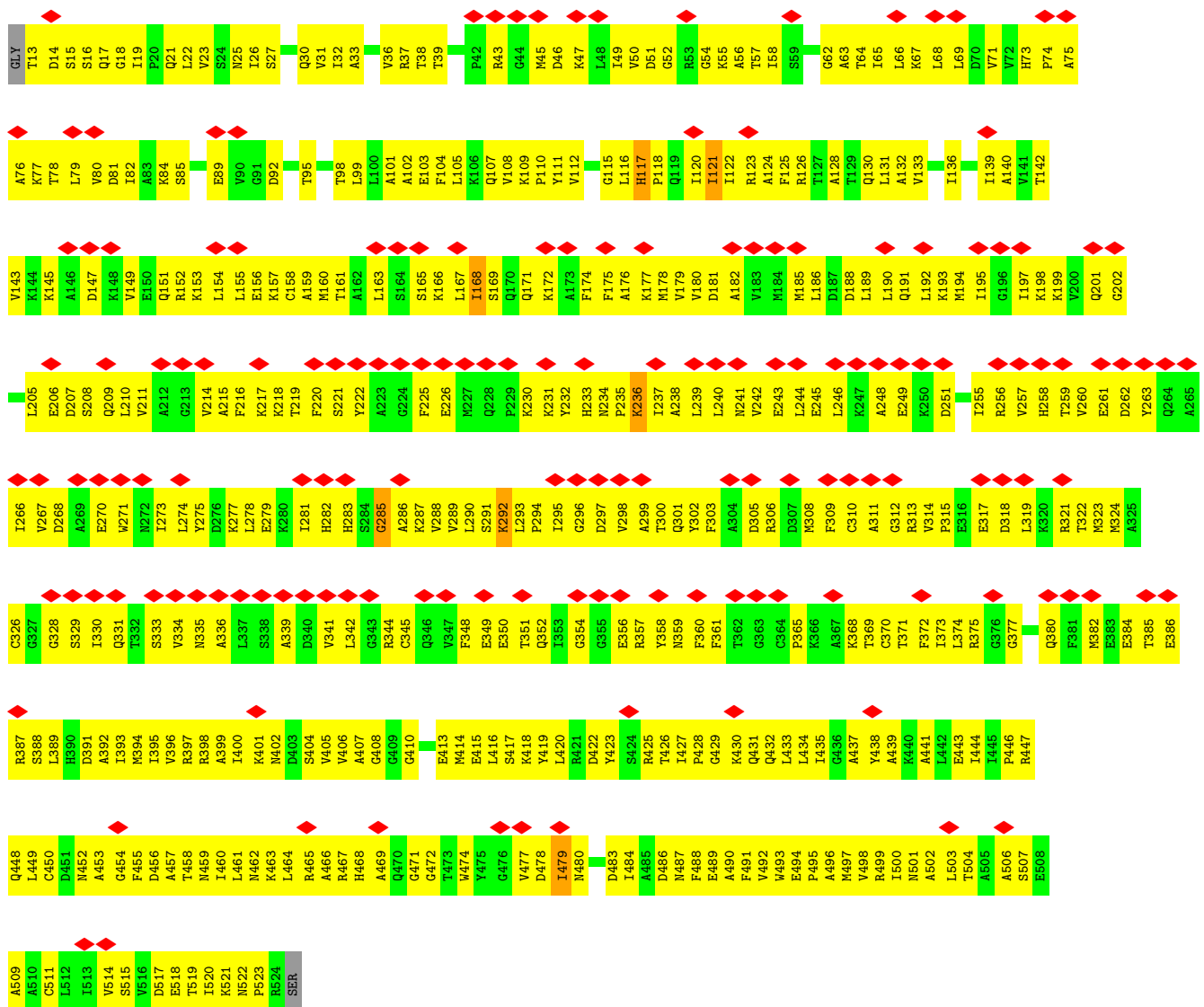


• Molecule 6: T-complex protein 1 subunit zeta

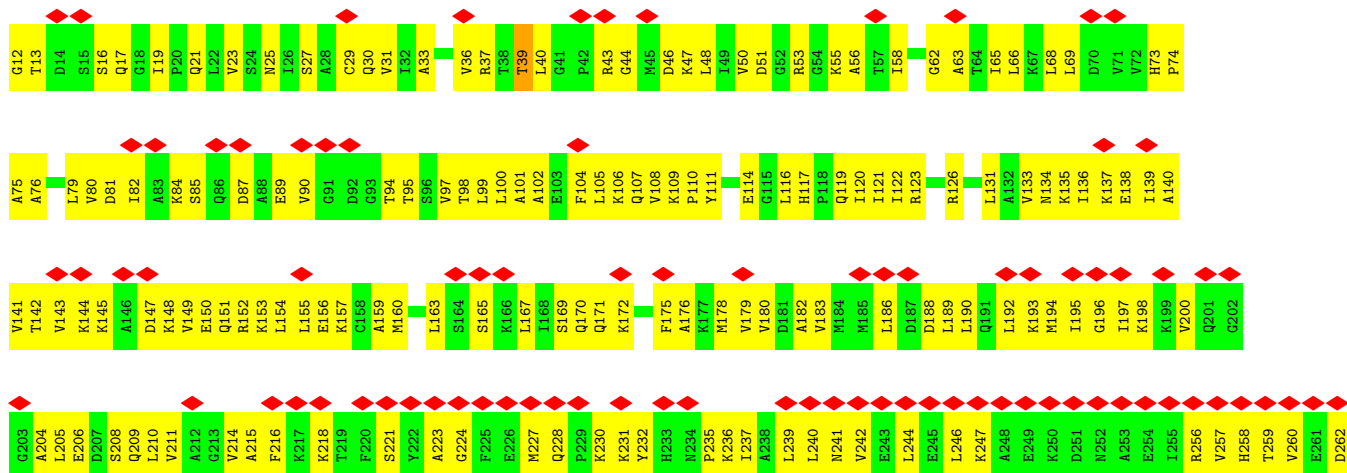


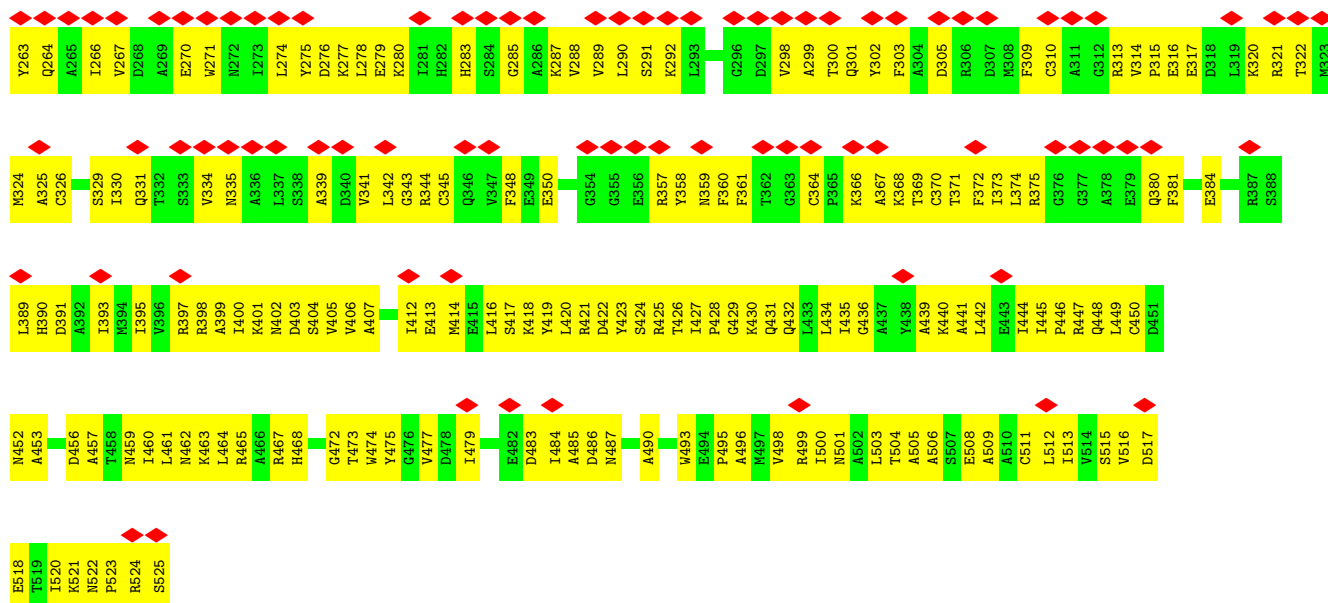
• Molecule 7: T-complex protein 1 subunit eta



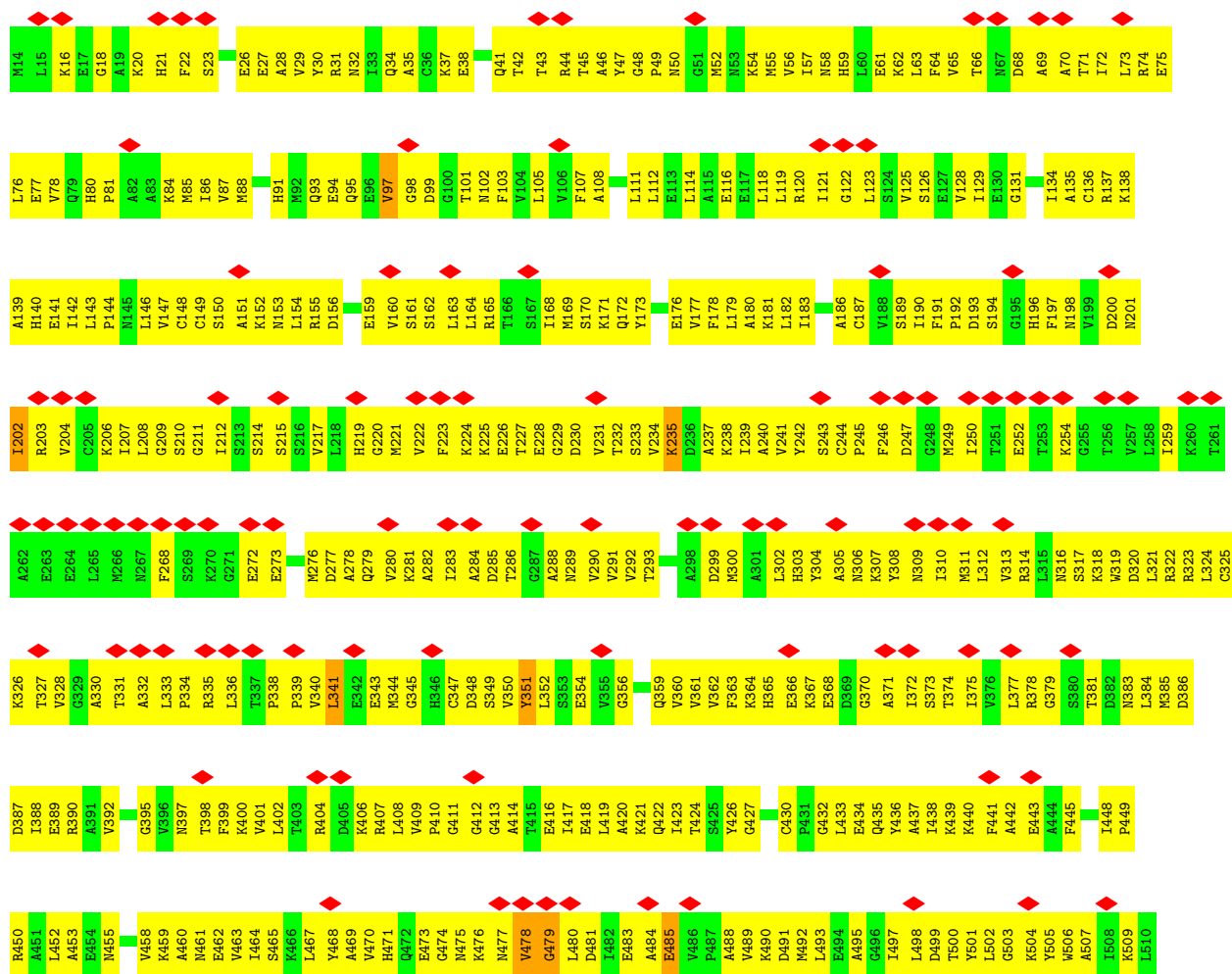


• Molecule 7: T-complex protein 1 subunit eta

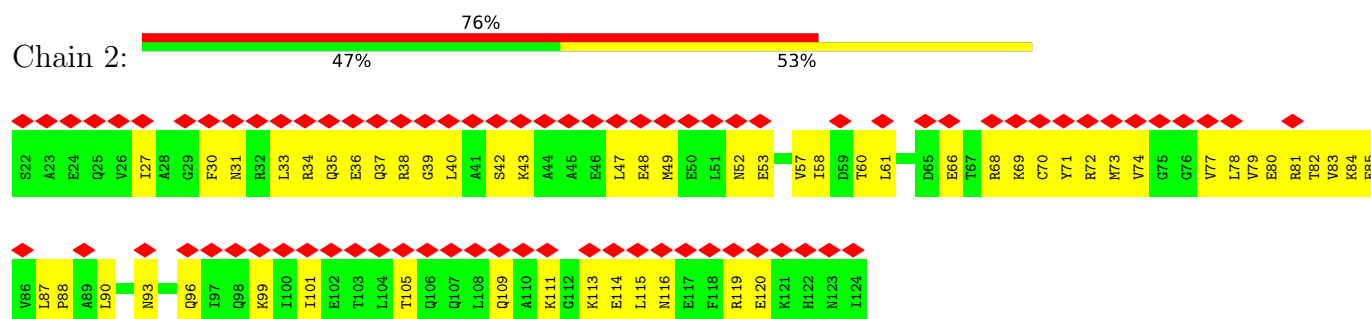




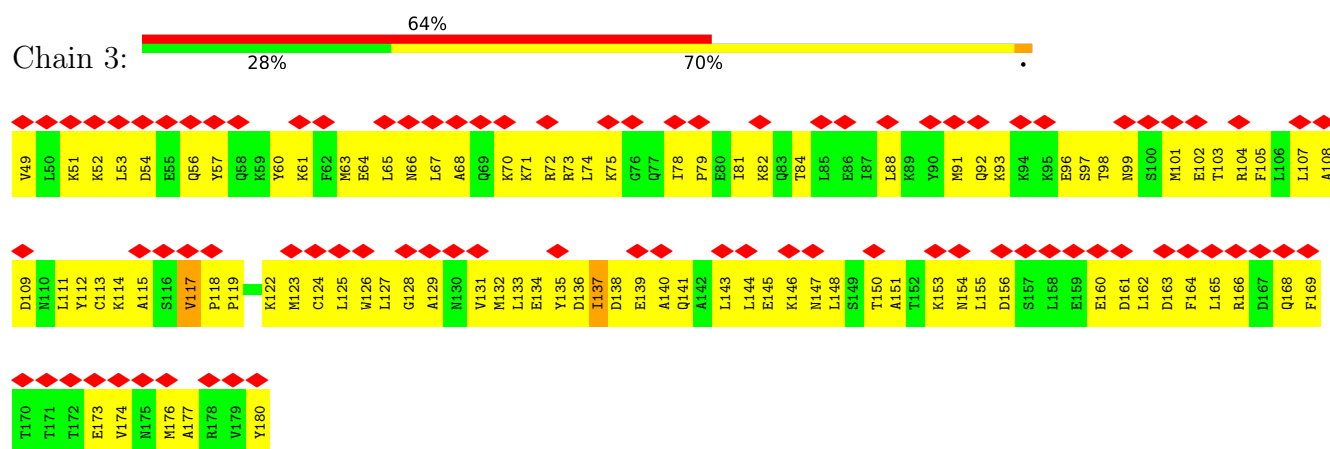
• Molecule 8: T-complex protein 1 subunit theta



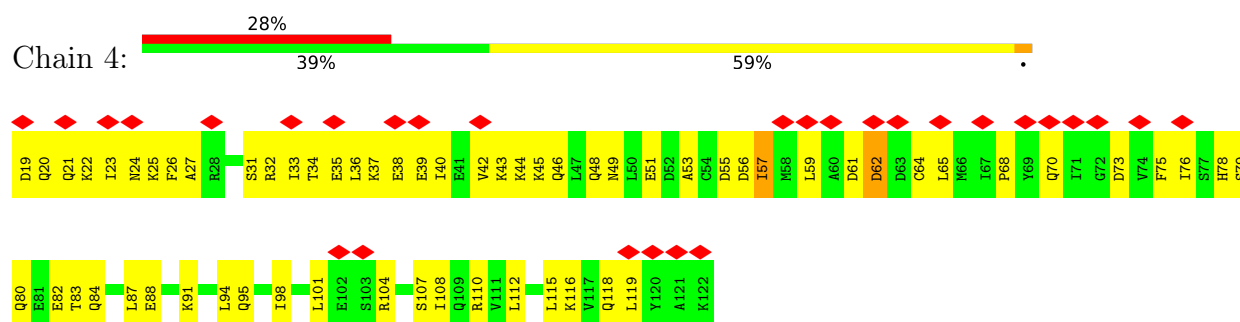
- Molecule 10: Prefoldin subunit 2



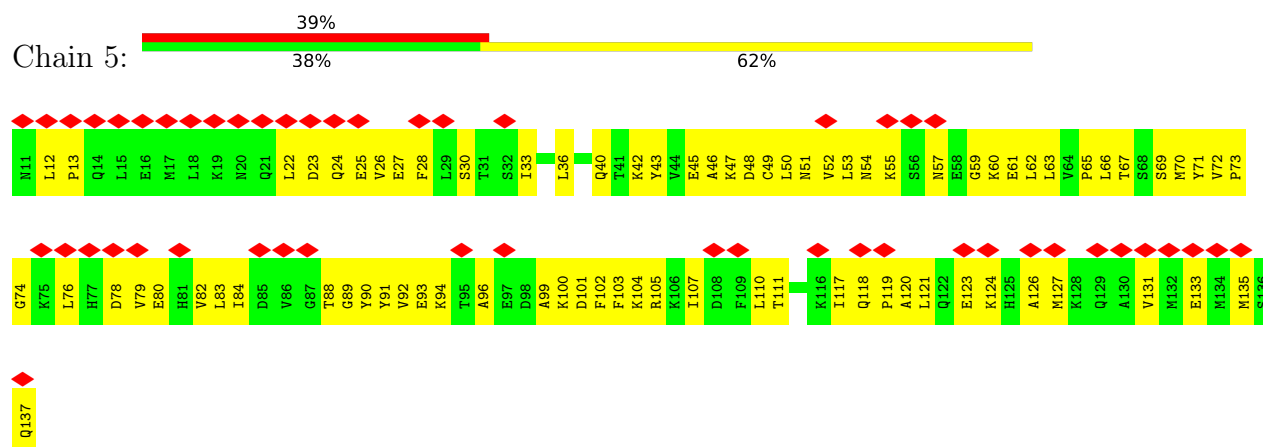
- Molecule 11: Prefoldin subunit 3



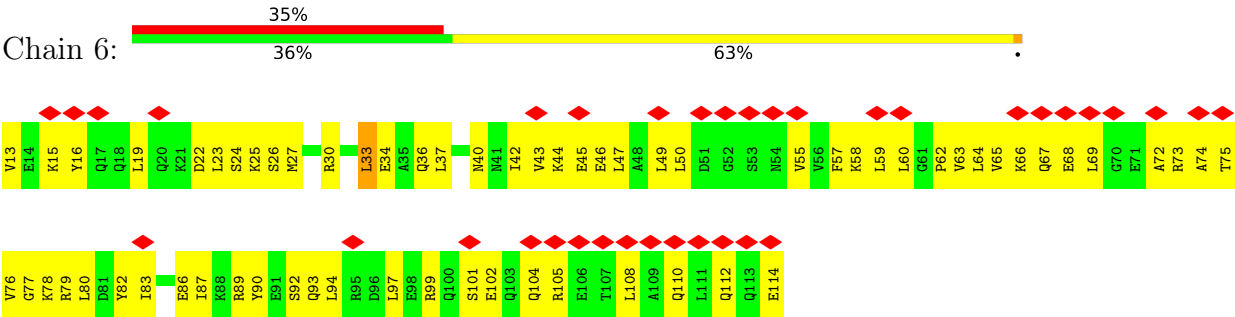
- Molecule 12: Prefoldin subunit 4



- Molecule 13: Prefoldin subunit 5



● Molecule 14: Prefoldin subunit 6



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	9478	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	JEOL 3200FSC	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	1	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	2.101	Depositor
Minimum map value	-0.825	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	0.129	Depositor
Recommended contour level	0.6	Depositor
Map size (Å)	408.0, 408.0, 408.0	wwPDB
Map dimensions	240, 240, 240	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.7, 1.7, 1.7	Depositor

5 Model quality

5.1 Standard geometry

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	0.32	0/3992	0.56	1/5389 (0.0%)
1	I	0.29	0/4095	0.54	2/5526 (0.0%)
2	B	0.30	0/3869	0.53	2/5214 (0.0%)
2	J	0.28	0/3863	0.50	0/5207
3	C	0.36	1/4000 (0.0%)	0.56	0/5397
3	K	0.30	0/4028	0.52	1/5431 (0.0%)
4	D	0.32	0/3863	0.56	0/5214
4	L	0.29	0/3904	0.55	0/5269
5	E	0.34	1/4020 (0.0%)	0.55	0/5414
5	M	0.29	0/4020	0.53	0/5414
6	F	0.30	0/3991	0.55	2/5379 (0.0%)
6	N	0.31	0/3986	0.54	0/5374
7	G	0.33	0/3991	0.56	1/5386 (0.0%)
7	O	0.31	0/4001	0.53	0/5396
8	H	0.34	0/3945	0.55	0/5331
8	P	0.32	0/3937	0.57	2/5321 (0.0%)
9	1	0.28	0/880	0.50	0/1173
10	2	0.28	0/835	0.49	0/1116
11	3	0.29	0/1101	0.55	0/1476
12	4	0.26	0/852	0.49	0/1140
13	5	0.32	0/1032	0.55	0/1385
14	6	0.32	0/830	0.59	2/1109 (0.2%)
All	All	0.31	2/69035 (0.0%)	0.54	13/93061 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	4
1	I	0	5
2	B	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
2	J	0	1
3	C	0	2
4	D	0	4
4	L	0	6
5	E	0	5
5	M	0	1
6	F	0	1
6	N	0	1
7	G	0	2
7	O	0	2
8	H	0	5
8	P	0	6
11	3	0	1
All	All	0	48

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	404	ASP	C-N	-10.71	1.13	1.34
5	E	258	PRO	C-N	-6.16	1.19	1.34

All (13) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	G	292	LYS	C-N-CA	8.16	142.10	121.70
1	I	525	LEU	CA-CB-CG	6.87	131.10	115.30
14	6	33	LEU	CB-CG-CD1	-6.61	99.76	111.00
1	A	45	LEU	CA-CB-CG	6.39	130.00	115.30
8	P	312	LEU	CA-CB-CG	6.04	129.18	115.30
8	P	286	THR	C-N-CA	5.87	134.62	122.30
2	B	238	LEU	CA-CB-CG	-5.71	102.17	115.30
1	I	525	LEU	CB-CG-CD1	-5.69	101.32	111.00
2	B	424	LEU	CA-CB-CG	-5.41	102.86	115.30
6	F	517	LEU	CA-CB-CG	-5.24	103.25	115.30
14	6	33	LEU	CA-CB-CG	5.02	126.85	115.30
6	F	459	LEU	CA-CB-CG	5.01	126.82	115.30
3	K	384	LEU	CA-CB-CG	5.00	126.81	115.30

There are no chirality outliers.

All (48) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
11	3	117	VAL	Peptide
1	A	111	LYS	Peptide
1	A	145	ARG	Peptide
1	A	223	GLN	Peptide
1	A	471	HIS	Peptide
2	B	428	THR	Peptide
2	B	59	ALA	Peptide
3	C	367	LYS	Peptide
3	C	370	LYS	Peptide
4	D	231	GLN	Peptide
4	D	257	LYS	Peptide
4	D	488	GLU	Peptide
4	D	489	LYS	Peptide
5	E	254	PRO	Peptide
5	E	297	ALA	Peptide
5	E	298	ASN	Peptide
5	E	300	ALA	Peptide
5	E	440	CYS	Peptide
6	F	214	HIS	Peptide
7	G	236	LYS	Peptide
7	G	285	GLY	Peptide
8	H	235	LYS	Peptide
8	H	341	LEU	Peptide
8	H	351	TYR	Peptide
8	H	402	LEU	Peptide
8	H	479	GLY	Peptide
1	I	12	SER	Peptide
1	I	135	ASN	Peptide
1	I	479	GLU	Peptide
1	I	490	LEU	Peptide
1	I	525	LEU	Peptide
2	J	55	SER	Peptide
4	L	306	ARG	Peptide
4	L	472	ASN	Peptide
4	L	473	PRO	Peptide
4	L	49	ARG	Peptide
4	L	50	THR	Peptide
4	L	506	GLU	Peptide
5	M	254	PRO	Peptide
6	N	423	ILE	Peptide
7	O	39	THR	Peptide
7	O	427	ILE	Peptide
8	P	41	GLN	Peptide

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Mol	Chain	Res	Type	Group
8	P	430	CYS	Peptide
8	P	431	PRO	Peptide
8	P	445	PHE	Peptide
8	P	471	HIS	Peptide
8	P	472	GLN	Peptide

5.2 Too-close contacts

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	3956	0	4124	487	0
1	I	4056	0	4218	405	0
2	B	3829	0	3932	425	0
2	J	3823	0	3927	367	0
3	C	3956	0	4079	492	0
3	K	3985	0	4107	411	0
4	D	3832	0	4042	469	0
4	L	3873	0	4086	418	0
5	E	3974	0	4083	537	0
5	M	3974	0	4084	421	0
6	F	3945	0	4071	419	0
6	N	3940	0	4068	400	0
7	G	3936	0	4028	470	0
7	O	3947	0	4036	388	0
8	H	3892	0	3949	463	0
8	P	3884	0	3943	401	0
9	1	874	0	902	95	0
10	2	830	0	852	68	0
11	3	1087	0	1114	131	0
12	4	847	0	845	71	0
13	5	1018	0	1042	107	0
14	6	826	0	850	104	0
All	All	68284	0	70382	6998	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 50.

All (6998) 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)
14:6:33:LEU:HD11	14:6:86:GLU:HB2	1.27	1.08
3:C:376:LEU:HB3	3:C:384:LEU:HD11	1.39	1.03
4:D:217:THR:H	4:D:220:ASP:HB2	1.25	0.99
3:C:144:VAL:HG23	3:C:151:MET:HG2	1.45	0.98
6:F:201:GLU:HG3	6:F:379:PRO:HD3	1.45	0.96
9:1:57:GLU:HG2	10:2:80:GLU:HG2	1.48	0.95
8:P:198:ASN:HB2	8:P:201:ASN:HD21	1.31	0.95
8:P:53:ASN:HB3	8:P:65:VAL:HB	1.46	0.95
1:A:103:ASN:HB3	1:A:440:GLU:HB3	1.50	0.94
6:N:270:ARG:HD2	6:N:336:PHE:HB2	1.50	0.93
4:L:434:LEU:HD21	4:L:485:ALA:HA	1.50	0.93
1:I:210:LEU:HD11	1:I:373:ALA:HB1	1.48	0.93
8:H:47:TYR:HB2	8:H:102:ASN:HB2	1.50	0.92
7:G:186:LEU:HD12	7:G:370:CYS:H	1.32	0.92
13:5:50:LEU:HD13	13:5:82:VAL:HG11	1.51	0.92
6:N:294:GLN:HE22	6:N:321:MET:HB2	1.33	0.92
3:K:365:ASP:HB2	3:K:370:LYS:HD3	1.52	0.91
5:M:299:LEU:HD11	5:M:322:VAL:HG23	1.50	0.91
8:H:452:LEU:HB3	8:H:479:GLY:HA3	1.51	0.90
1:A:45:LEU:HD21	1:A:61:ILE:HB	1.52	0.90
8:P:365:HIS:HB3	8:P:370:GLY:HA2	1.52	0.90
7:O:395:ILE:HA	7:O:398:ARG:HB3	1.54	0.90
1:A:32:VAL:HG12	1:A:58:GLY:HA3	1.53	0.90
5:M:221:ASP:HB3	5:M:388:ARG:HE	1.36	0.90
7:G:407:ALA:HB1	7:G:487:ASN:HB2	1.54	0.89
7:O:186:LEU:HD13	7:O:195:ILE:HG23	1.54	0.89
1:A:347:GLN:HB3	1:A:368:LYS:HB3	1.53	0.89
7:G:232:TYR:HB2	7:G:348:PHE:HB3	1.52	0.89
3:K:60:THR:HG22	3:K:62:ASP:H	1.37	0.89
3:K:200:ARG:HH21	3:K:316:ARG:HH21	1.20	0.89
4:L:137:PHE:HB3	4:L:523:THR:HG23	1.54	0.88
5:E:489:LEU:HA	5:E:501:MET:H	1.35	0.88
2:J:208:SER:HB3	2:J:211:ASP:HB2	1.54	0.88
3:C:113:LEU:HA	3:C:116:GLN:HB2	1.54	0.88
1:A:236:CYS:H	1:A:327:ILE:HD11	1.39	0.87
3:C:197:LYS:O	3:C:200:ARG:NH1	2.07	0.87
7:O:247:LYS:HZ3	7:O:267:VAL:HG13	1.39	0.87
5:E:430:ALA:HA	5:E:452:ALA:HB1	1.56	0.87
5:E:302:CYS:SG	5:E:323:ARG:NH1	2.47	0.87
1:A:254:ILE:HD13	1:A:259:LYS:HB2	1.57	0.87
6:N:97:LEU:HB3	6:N:446:ILE:HG12	1.56	0.87
2:B:190:LEU:HA	2:B:369:GLU:HB2	1.55	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:351:TYR:HB2	8:H:362:VAL:HB	1.54	0.87
1:I:118:ILE:HG23	1:I:522:ILE:HG12	1.56	0.87
3:C:218:VAL:H	3:C:326:ALA:HA	1.39	0.86
5:E:217:GLY:HA3	5:E:388:ARG:HB3	1.56	0.86
3:K:246:GLU:H	3:K:278:LEU:HD22	1.39	0.86
8:H:245:PRO:HA	8:H:335:ARG:HB2	1.56	0.86
8:H:417:ILE:HG21	8:H:467:LEU:HB3	1.57	0.86
6:F:292:ILE:HG12	6:F:313:LEU:HB2	1.55	0.86
7:G:37:ARG:O	7:G:448:GLN:NE2	2.08	0.86
7:G:389:LEU:HA	7:G:392:ALA:HB3	1.55	0.86
1:A:414:ALA:HB1	1:A:485:TRP:HB3	1.58	0.86
5:E:363:SER:HA	5:E:370:LYS:HA	1.55	0.86
6:N:497:ASN:HB2	6:N:500:VAL:HG23	1.57	0.86
9:1:33:GLN:HB2	9:1:94:LEU:HD21	1.58	0.86
2:J:312:ILE:HG21	2:J:362:PHE:HZ	1.41	0.86
5:M:243:VAL:HB	5:M:359:VAL:HB	1.58	0.86
9:1:61:TYR:HB2	10:2:78:LEU:HB3	1.58	0.86
7:O:29:CYS:HB2	7:O:75:ALA:HB1	1.58	0.86
10:2:37:GLN:NE2	11:3:169:PHE:O	2.09	0.86
4:L:297:VAL:HG22	4:L:323:MET:HB2	1.58	0.85
3:C:212:SER:OG	3:C:375:LEU:O	1.94	0.85
2:J:47:GLY:O	4:L:131:THR:OG1	1.94	0.85
6:N:274:ILE:HD12	6:N:291:VAL:HG11	1.58	0.85
4:L:342:THR:HG23	4:L:356:LEU:HA	1.57	0.85
7:O:136:ILE:HD12	7:O:503:LEU:HD11	1.58	0.85
5:E:306:PHE:HE2	5:E:310:ALA:HB3	1.42	0.85
4:D:134:SER:HB3	4:D:527:ARG:HG3	1.59	0.85
1:I:423:LEU:HA	1:I:426:TYR:HB3	1.59	0.85
1:A:432:SER:HA	7:O:459:ASN:HA	1.59	0.84
4:D:215:GLY:HA3	4:D:370:SER:H	1.42	0.84
6:F:281:VAL:HG13	6:F:341:PRO:HB3	1.59	0.84
5:M:477:VAL:HG23	5:M:491:ILE:HG23	1.60	0.84
14:6:15:LYS:HB3	14:6:104:GLN:HB3	1.60	0.84
3:C:296:ILE:HG21	3:C:313:ARG:HB2	1.59	0.84
5:E:72:ASN:O	5:E:400:ARG:NH2	2.10	0.84
4:L:239:THR:HG21	4:L:297:VAL:HG23	1.58	0.84
4:D:433:ALA:HA	4:D:455:ALA:HB1	1.57	0.84
6:F:140:SER:HA	6:F:406:CYS:HA	1.57	0.84
12:4:36:LEU:HD13	12:4:104:ARG:HG3	1.59	0.84
2:J:131:ARG:HH22	2:J:509:GLU:HA	1.41	0.84
1:A:286:ILE:HB	1:A:307:ALA:HA	1.58	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:274:ILE:HA	6:F:277:LEU:HB3	1.59	0.84
4:L:479:GLU:HG3	4:L:483:ARG:HG3	1.58	0.83
4:D:247:GLY:N	4:D:297:VAL:O	2.10	0.83
7:O:190:LEU:HD22	7:O:397:ARG:HD2	1.59	0.83
7:O:450:CYS:HB2	7:O:457:ALA:HB2	1.60	0.83
1:A:33:LYS:O	1:A:455:ASN:ND2	2.11	0.83
6:F:228:ALA:HB3	6:F:347:ALA:H	1.40	0.83
7:O:140:ALA:HB1	7:O:404:SER:HB3	1.58	0.83
3:C:200:ARG:H	3:C:373:THR:HG22	1.44	0.83
5:E:259:LYS:HG3	5:E:264:HIS:HB2	1.61	0.83
5:E:196:VAL:HG11	5:E:208:LEU:HB3	1.60	0.83
4:L:217:THR:H	4:L:220:ASP:HB2	1.43	0.83
7:G:14:ASP:HB2	7:G:521:LYS:HB2	1.61	0.83
8:H:78:VAL:HG22	8:H:80:HIS:H	1.44	0.83
6:N:292:ILE:HA	6:N:313:LEU:HB2	1.60	0.83
6:N:324:LEU:HD13	6:N:363:ILE:HD13	1.61	0.83
2:B:133:ALA:HB2	2:B:436:MET:HG2	1.59	0.82
3:C:118:HIS:HE1	3:C:122:VAL:HG23	1.43	0.82
4:D:141:LEU:HD11	4:D:520:THR:HA	1.61	0.82
5:E:170:LYS:O	5:E:174:GLY:N	2.11	0.82
4:L:74:GLY:HA2	4:L:77:ILE:HB	1.61	0.82
14:6:90:TYR:O	14:6:94:LEU:N	2.12	0.82
1:A:431:GLY:H	1:A:435:GLN:HB2	1.43	0.82
4:D:245:LYS:H	4:D:296:ASN:HD22	1.27	0.82
1:I:65:LEU:HB3	3:K:13:ASN:HD21	1.44	0.82
4:D:60:MET:HG2	4:D:70:ILE:HG12	1.61	0.82
5:E:162:THR:O	5:E:166:ILE:N	2.10	0.82
7:G:222:TYR:HB3	7:G:300:THR:HG21	1.61	0.82
2:J:47:GLY:H	2:J:450:ILE:HD11	1.43	0.82
4:L:463:SER:HA	4:L:480:LEU:HD13	1.59	0.82
4:D:233:VAL:HB	4:D:326:LYS:H	1.44	0.82
1:I:237:LEU:HD23	1:I:344:MET:HE1	1.62	0.82
4:L:213:LYS:HB3	4:L:391:ARG:HG2	1.58	0.82
8:H:414:ALA:HB2	8:H:492:MET:HB2	1.61	0.82
2:J:17:ASP:HB2	2:J:522:LYS:HB2	1.59	0.82
1:A:494:LYS:HE2	1:A:496:ARG:HH22	1.43	0.82
3:C:217:GLY:HA2	3:C:371:ALA:HB3	1.61	0.82
4:D:360:GLU:H	4:D:379:CYS:HA	1.44	0.82
6:F:153:ARG:O	6:F:157:ARG:N	2.11	0.82
5:M:217:GLY:HA3	5:M:388:ARG:HB3	1.61	0.82
2:B:420:ALA:O	2:B:427:ARG:NH2	2.13	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:460:ALA:O	8:H:464:ILE:N	2.13	0.81
3:K:466:LEU:HD21	3:K:480:VAL:HB	1.59	0.81
8:P:93:GLN:HG3	8:P:104:VAL:HG21	1.61	0.81
13:5:54:ASN:OD1	13:5:100:LYS:NZ	2.13	0.81
5:E:222:THR:HG22	5:E:387:ILE:HG13	1.62	0.81
7:G:71:VAL:HG11	7:G:76:ALA:HB3	1.62	0.81
7:G:149:VAL:HG21	7:G:154:LEU:HB2	1.62	0.81
5:E:205:ASP:HA	5:E:410:ARG:HE	1.44	0.81
6:N:333:LEU:HG	6:N:335:SER:H	1.43	0.81
4:D:513:LEU:O	4:D:517:SER:N	2.14	0.81
9:1:48:ASP:OD1	9:1:77:HIS:ND1	2.10	0.81
1:A:527:ILE:HG12	4:D:60:MET:H	1.45	0.81
4:D:276:LEU:HD13	4:D:280:ARG:HH21	1.46	0.81
2:J:51:ILE:HB	4:L:532:ILE:HG12	1.62	0.81
3:K:215:LEU:HB3	3:K:375:LEU:H	1.45	0.81
6:N:131:LEU:O	6:N:502:LYS:NZ	2.14	0.81
8:P:431:PRO:HA	8:P:435:GLN:HB2	1.61	0.81
1:A:145:ARG:NH2	1:A:398:VAL:O	2.14	0.81
8:H:97:VAL:HG12	8:H:98:GLY:H	1.45	0.81
13:5:91:TYR:HB2	14:6:57:PHE:HB2	1.61	0.81
2:B:52:LEU:HB2	2:B:62:MET:HB2	1.63	0.80
5:E:131:ILE:HG12	7:G:43:ARG:HB3	1.61	0.80
4:D:335:PHE:HA	4:D:338:LYS:HE3	1.62	0.80
6:F:352:GLU:HA	6:F:361:THR:HA	1.63	0.80
3:K:469:LYS:HD3	3:K:487:LEU:HD22	1.63	0.80
2:B:219:LEU:HB3	2:B:372:THR:HG21	1.61	0.80
3:C:169:SER:HA	3:C:387:VAL:HG13	1.63	0.80
7:O:516:VAL:HG21	8:P:55:MET:HG3	1.63	0.80
8:P:313:VAL:HG12	8:P:316:ASN:HD21	1.45	0.80
4:D:423:ALA:HB3	4:D:489:LYS:HE2	1.62	0.80
2:J:45:PRO:HD2	2:J:450:ILE:HG21	1.62	0.80
7:O:209:GLN:HB2	7:O:373:ILE:HB	1.63	0.80
6:N:270:ARG:NH1	6:N:337:ASP:OD1	2.15	0.80
7:O:221:SER:HB2	7:O:357:ARG:HH12	1.46	0.80
5:E:215:VAL:HG22	5:E:395:ILE:HG21	1.63	0.80
7:G:149:VAL:HG23	7:G:151:GLN:H	1.47	0.80
3:K:40:CYS:HA	3:K:46:MET:H	1.45	0.80
4:D:329:GLU:HG3	4:D:331:GLU:H	1.46	0.80
4:L:305:LEU:H	4:L:308:ALA:HB2	1.47	0.80
5:M:150:LYS:HE3	5:M:486:ASN:HD21	1.47	0.80
4:L:172:ASN:HB3	4:L:496:ARG:HH22	1.47	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:37:ASN:HB3	6:N:58:LYS:HG3	1.63	0.80
2:B:125:THR:HG23	2:B:431:LYS:HB3	1.64	0.79
5:E:229:ILE:HG22	5:E:373:VAL:HA	1.62	0.79
7:G:136:ILE:HD11	7:G:416:LEU:HD11	1.64	0.79
6:N:330:GLY:HA3	6:N:345:GLY:HA2	1.65	0.79
1:A:251:GLN:HE21	1:A:259:LYS:HA	1.47	0.79
6:F:145:ARG:O	6:F:149:ILE:N	2.13	0.79
8:H:421:LYS:HE2	8:H:471:HIS:HA	1.65	0.79
1:A:129:VAL:HG12	1:A:511:VAL:HG12	1.65	0.79
5:E:334:ALA:HB2	5:E:341:ILE:HG13	1.64	0.79
3:K:293:GLU:HG2	3:K:317:LYS:HB2	1.63	0.79
6:N:317:LYS:H	6:N:320:ASN:HB2	1.46	0.79
5:E:318:ASN:HB3	5:E:319:LEU:HG	1.65	0.79
7:G:116:LEU:HD21	7:G:434:LEU:HD22	1.64	0.79
2:J:198:ALA:HB1	2:J:370:ALA:HA	1.64	0.79
5:M:105:GLY:HA2	5:M:516:GLN:HE21	1.48	0.79
5:E:140:ALA:HB2	5:E:448:MET:HG2	1.64	0.79
4:L:366:ASN:ND2	4:L:371:GLY:O	2.14	0.79
1:A:147:CYS:HB2	1:A:150:ASN:HB3	1.65	0.79
1:I:275:ILE:HD13	1:I:306:MET:H	1.48	0.79
3:K:212:SER:HB2	3:K:377:ARG:HB2	1.65	0.79
3:K:474:ASN:HB2	3:K:478:TRP:HB3	1.64	0.79
5:M:462:LEU:HD21	5:M:493:CYS:HA	1.63	0.79
7:O:240:LEU:HB3	7:O:242:VAL:HG22	1.65	0.79
8:P:44:ARG:HA	8:P:451:ALA:HB1	1.64	0.79
2:B:138:ARG:O	2:B:142:LEU:N	2.13	0.79
4:D:523:THR:O	4:D:527:ARG:N	2.16	0.79
5:E:480:ARG:HD3	5:E:489:LEU:HD13	1.63	0.79
6:F:289:PHE:HB3	6:F:310:ILE:HG12	1.64	0.79
4:L:476:THR:HG22	4:L:480:LEU:HG	1.65	0.79
1:A:320:ALA:HB1	1:A:327:ILE:HG12	1.63	0.79
6:F:126:ALA:HB2	6:F:437:VAL:HG22	1.65	0.79
6:F:353:TYR:O	6:F:360:PHE:N	2.16	0.79
1:I:485:TRP:CD1	1:I:495:PRO:HB3	2.17	0.79
6:N:105:GLN:NE2	6:N:442:ASP:OD2	2.16	0.79
7:O:218:LYS:HB2	7:O:315:PRO:HD3	1.65	0.79
2:B:200:HIS:HD2	2:B:322:ARG:HH11	1.31	0.79
5:M:475:THR:HA	5:M:478:ARG:HB2	1.64	0.79
1:A:356:ILE:HD12	1:A:378:ARG:HH21	1.48	0.78
5:E:219:LEU:HD21	5:E:394:ILE:HG13	1.65	0.78
2:J:450:ILE:HD12	2:J:453:ASN:HD22	1.47	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:480:ARG:HD2	1:A:483:LEU:HD12	1.66	0.78
1:I:359:ASP:OD2	1:I:378:ARG:NH1	2.16	0.78
2:J:25:ARG:HH11	2:J:117:ILE:HG23	1.48	0.78
3:K:149:SER:HB3	3:K:177:LEU:HD13	1.64	0.78
3:C:150:ASP:HA	3:C:153:LEU:HB3	1.63	0.78
3:C:155:ILE:HD11	3:C:407:LEU:HB3	1.63	0.78
8:H:169:MET:HG3	8:H:173:TYR:HD1	1.48	0.78
4:L:143:LYS:HD3	4:L:439:TYR:HB3	1.65	0.78
9:I:67:MET:HG3	13:5:62:LEU:HG	1.65	0.78
1:A:182:THR:HG22	1:A:372:SER:HB2	1.66	0.78
5:M:225:ILE:HG21	5:M:229:ILE:HG23	1.66	0.78
1:I:288:THR:HG22	1:I:290:GLY:H	1.49	0.78
5:M:344:ARG:NH2	7:O:246:LEU:O	2.16	0.78
4:D:429:GLU:HB3	4:D:458:MET:HB3	1.65	0.78
5:E:204:VAL:HG12	5:E:413:ILE:HD11	1.64	0.78
13:5:82:VAL:O	13:5:94:LYS:N	2.13	0.78
5:E:181:CYS:SG	5:E:182:HIS:N	2.57	0.78
5:E:147:HIS:HA	5:E:150:LYS:HE2	1.64	0.78
1:A:192:VAL:HG21	1:A:400:LYS:HD3	1.66	0.78
3:C:41:LEU:HD11	3:C:100:ILE:HG13	1.64	0.78
3:C:143:PRO:HA	3:C:406:GLN:HA	1.66	0.78
6:F:168:LEU:HD13	6:F:391:VAL:HB	1.65	0.78
6:N:41:LYS:HG3	6:N:455:SER:HB3	1.64	0.78
7:G:23:VAL:HG13	7:G:109:LYS:HD2	1.66	0.78
7:G:425:ARG:HD2	1:I:473:GLU:HG2	1.66	0.77
5:M:95:SER:HB3	5:M:106:THR:HG23	1.65	0.77
4:D:231:GLN:O	4:D:374:LEU:N	2.16	0.77
4:D:271:GLN:HE22	12:4:48:GLN:HE22	1.32	0.77
8:H:162:SER:OG	8:H:165:ARG:NH2	2.17	0.77
10:2:72:ARG:HB3	10:2:79:VAL:HB	1.65	0.77
3:K:497:GLU:HB3	3:K:502:LYS:HD3	1.65	0.77
8:H:201:ASN:HB3	8:H:372:ILE:HG22	1.67	0.77
2:J:200:HIS:HB2	2:J:372:THR:HA	1.66	0.77
4:L:101:GLU:OE1	4:L:517:SER:OG	2.02	0.77
6:N:232:THR:HB	6:N:333:LEU:H	1.49	0.77
8:P:218:LEU:HD22	8:P:355:VAL:HG22	1.66	0.77
11:3:140:ALA:HB1	13:5:70:MET:HE3	1.67	0.77
2:B:296:ILE:HD13	2:B:311:ALA:HB1	1.65	0.77
5:E:244:GLU:HG3	5:E:298:ASN:HB2	1.67	0.77
1:I:175:ALA:HA	1:I:195:VAL:HG21	1.65	0.77
4:D:266:VAL:HB	14:6:89:ARG:HB2	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:182:ALA:HB2	7:G:210:LEU:HD11	1.66	0.77
3:K:190:ARG:NH1	3:K:195:ILE:O	2.18	0.77
9:1:54:LEU:O	9:1:73:LYS:NZ	2.18	0.77
7:G:13:THR:HG21	8:H:76:LEU:HA	1.65	0.77
2:J:237:ILE:HB	2:J:291:ILE:HG12	1.65	0.77
8:P:161:SER:O	8:P:165:ARG:N	2.18	0.77
2:B:190:LEU:HD13	2:B:195:ASN:H	1.50	0.77
5:E:305:GLY:HA2	5:E:323:ARG:HB3	1.66	0.77
2:J:460:ASP:O	2:J:464:GLN:N	2.14	0.77
1:A:99:GLU:HG3	1:A:447:VAL:HG11	1.67	0.76
3:C:140:ILE:HG12	3:C:409:PRO:HD2	1.65	0.76
7:O:317:GLU:O	7:O:321:ARG:N	2.14	0.76
4:D:343:LYS:HB2	4:D:355:MET:HA	1.68	0.76
3:K:412:GLY:HA3	3:K:448:PRO:HB3	1.67	0.76
7:O:216:PHE:HB2	7:O:359:ASN:HB2	1.67	0.76
1:A:177:LEU:HD12	1:A:403:LEU:HD11	1.65	0.76
2:B:52:LEU:HD21	2:B:70:ILE:HG12	1.68	0.76
8:H:221:MET:N	8:H:363:PHE:O	2.17	0.76
8:H:299:ASP:O	8:H:303:HIS:N	2.14	0.76
2:J:295:LEU:HA	2:J:313:GLU:HB2	1.65	0.76
1:A:107:LEU:HD11	1:A:440:GLU:HG3	1.67	0.76
8:H:450:ARG:HB2	8:H:460:ALA:HB2	1.67	0.76
4:D:434:LEU:HB2	4:D:481:ARG:HG3	1.67	0.76
1:I:88:ASP:HB2	1:I:509:VAL:HG11	1.68	0.76
9:1:57:GLU:HG3	9:1:59:ASN:H	1.50	0.76
1:A:164:ASN:O	1:A:168:PHE:N	2.19	0.76
4:D:423:ALA:HA	4:D:509:VAL:HA	1.67	0.76
7:G:230:LYS:HB3	7:G:350:GLU:HB3	1.68	0.76
1:A:348:ALA:HA	1:A:367:THR:HA	1.67	0.76
2:B:86:ASP:OD1	2:B:89:ARG:NH2	2.18	0.76
7:G:198:LYS:HD2	7:G:217:LYS:HG3	1.67	0.76
13:5:59:GLY:N	13:5:76:LEU:O	2.19	0.76
1:A:182:THR:HA	1:A:370:ARG:HH11	1.50	0.76
3:K:46:MET:O	3:K:61:ASN:ND2	2.18	0.76
6:N:189:PHE:HB2	6:N:370:ARG:HG3	1.66	0.76
6:N:292:ILE:HG12	6:N:313:LEU:HD22	1.67	0.76
8:P:45:THR:O	8:P:455:ASN:ND2	2.19	0.76
2:B:37:ASP:HA	2:B:40:LYS:HE3	1.68	0.76
8:H:241:VAL:HG21	8:H:324:LEU:HB3	1.68	0.76
14:6:58:LYS:HG2	14:6:67:GLN:HG3	1.66	0.76
2:B:130:TRP:CD1	2:B:439:TYR:HB2	2.20	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:247:GLY:HA2	4:D:356:LEU:HD22	1.67	0.75
4:D:420:ALA:HB3	4:D:512:LEU:HD11	1.66	0.75
7:G:520:ILE:N	8:H:55:MET:O	2.18	0.75
5:M:248:ILE:HD12	5:M:299:LEU:HD23	1.67	0.75
12:4:95:GLN:HA	12:4:98:ILE:HD12	1.68	0.75
5:E:74:GLY:O	5:E:78:LEU:N	2.17	0.75
5:E:357:GLY:HA3	5:E:377:CYS:HB2	1.68	0.75
7:G:152:ARG:NH1	7:G:156:GLU:OE2	2.18	0.75
7:G:174:PHE:HA	7:G:177:LYS:HE2	1.68	0.75
8:H:57:ILE:HG22	8:H:63:LEU:HA	1.67	0.75
5:M:490:GLY:HA3	5:M:501:MET:HG2	1.68	0.75
5:E:243:VAL:HG23	5:E:299:LEU:HD22	1.68	0.75
5:E:358:LEU:HB3	5:E:375:GLU:HB2	1.67	0.75
8:H:143:LEU:HD21	8:H:505:TYR:HA	1.68	0.75
5:M:102:ILE:HG21	5:M:512:GLY:HA3	1.66	0.75
3:C:244:SER:HB3	3:C:335:PRO:HG2	1.68	0.75
4:D:237:GLY:N	4:D:318:ASN:HB3	2.02	0.75
1:I:20:GLN:O	1:I:24:ALA:N	2.19	0.75
3:C:39:THR:HB	3:C:46:MET:HB2	1.68	0.75
4:D:160:ARG:HH21	4:D:189:ASN:HB2	1.49	0.75
7:G:108:VAL:O	7:G:111:TYR:N	2.19	0.75
5:M:306:PHE:HB2	5:M:323:ARG:HG2	1.69	0.75
6:N:172:VAL:HG13	6:N:395:LEU:HD23	1.68	0.75
5:E:165:LEU:O	5:E:169:ALA:N	2.18	0.75
4:D:384:LYS:HG3	4:D:385:THR:H	1.51	0.75
7:G:444:ILE:HD12	7:G:447:ARG:HD2	1.67	0.75
4:D:213:LYS:HB3	4:D:391:ARG:HG2	1.67	0.75
4:D:255:ALA:HB3	4:D:279:GLU:HG2	1.69	0.75
8:P:452:LEU:HD23	8:P:479:GLY:HA2	1.68	0.75
3:C:287:PRO:HG2	3:C:309:ILE:HG21	1.69	0.75
5:E:411:ASN:HB2	5:E:509:THR:HG21	1.67	0.75
7:G:156:GLU:O	7:G:160:MET:N	2.17	0.75
8:H:22:PHE:O	8:H:31:ARG:NH2	2.20	0.75
8:H:245:PRO:O	8:H:279:GLN:NE2	2.19	0.75
6:N:148:LEU:O	6:N:152:ALA:N	2.18	0.75
7:O:428:PRO:HG3	7:O:432:GLN:HB3	1.69	0.75
8:P:232:THR:HG22	8:P:311:MET:HG3	1.69	0.75
2:B:38:LEU:HD13	2:B:50:LYS:HG2	1.69	0.74
5:E:168:THR:HA	5:E:171:THR:HG22	1.67	0.74
4:L:190:ALA:HA	4:L:386:VAL:HG21	1.69	0.74
6:N:274:ILE:HD11	6:N:336:PHE:HB3	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:164:LEU:HD22	8:P:395:GLY:HA2	1.68	0.74
3:C:36:ILE:HB	6:F:15:ARG:HH12	1.52	0.74
3:C:118:HIS:CE1	3:C:122:VAL:HG23	2.22	0.74
7:G:522:ASN:ND2	8:H:75:GLU:OE2	2.20	0.74
1:A:197:ILE:HG23	1:A:375:ILE:HB	1.69	0.74
7:G:49:ILE:HB	7:G:57:THR:HB	1.70	0.74
7:G:209:GLN:HB3	7:G:373:ILE:HB	1.68	0.74
4:L:239:THR:OG1	4:L:296:ASN:O	2.04	0.74
3:C:235:ASN:O	3:C:237:ARG:NH1	2.20	0.74
4:D:244:ALA:HB3	4:D:359:ALA:HB3	1.68	0.74
2:J:523:ALA:HB3	5:M:64:LYS:H	1.53	0.74
3:K:434:GLN:HE21	3:K:438:ARG:HH22	1.34	0.74
8:P:459:LYS:HD3	8:P:461:ASN:HB2	1.69	0.74
6:F:351:TYR:O	6:F:362:PHE:N	2.21	0.74
1:I:124:ALA:HB1	1:I:423:LEU:HD23	1.68	0.74
6:F:434:GLN:HE21	6:F:438:GLN:HG3	1.51	0.74
7:G:468:HIS:HA	7:G:472:GLY:HA2	1.70	0.74
6:N:239:TYR:O	6:N:270:ARG:NH2	2.20	0.74
6:N:431:GLY:HA2	6:N:434:GLN:HB3	1.70	0.74
3:C:480:VAL:HA	3:C:487:LEU:HA	1.69	0.74
5:E:431:LEU:HD22	5:E:481:GLN:HB3	1.68	0.74
1:I:534:HIS:H	4:L:82:GLN:HB2	1.52	0.74
1:A:263:ILE:HD12	3:C:273:GLU:HG3	1.67	0.74
8:H:349:SER:HB2	8:H:364:LYS:HB3	1.68	0.74
2:J:52:LEU:HD12	4:L:536:VAL:HG21	1.68	0.74
5:M:188:ILE:HB	5:M:224:LEU:HB2	1.70	0.74
1:A:237:LEU:N	1:A:287:LEU:O	2.19	0.74
5:E:132:ARG:HD3	5:E:443:LEU:HD22	1.68	0.74
6:F:70:GLN:H	8:H:18:GLY:HA2	1.51	0.74
7:G:425:ARG:NH1	1:I:421:ILE:HB	2.01	0.74
3:K:217:GLY:HA3	3:K:365:ASP:H	1.52	0.74
3:K:407:LEU:HB2	3:K:498:PRO:HA	1.69	0.74
4:L:418:LYS:HB3	4:L:513:LEU:HB2	1.68	0.74
6:N:465:LYS:O	6:N:469:GLU:N	2.19	0.74
5:E:440:CYS:HB3	5:E:444:GLU:HG3	1.69	0.74
6:F:197:LYS:HA	6:F:380:ASN:HD21	1.50	0.74
2:J:27:THR:HA	2:J:30:ILE:HG12	1.69	0.74
3:K:203:LYS:HB3	3:K:384:LEU:HD21	1.70	0.74
3:C:230:ARG:H	9:I:118:ALA:HB1	1.51	0.73
8:H:282:ALA:HA	8:H:285:ASP:HB2	1.68	0.73
1:I:420:SER:HA	1:I:442:ALA:HB1	1.68	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:182:MET:HG3	3:K:216:ARG:HD3	1.70	0.73
5:M:477:VAL:O	5:M:481:GLN:N	2.19	0.73
1:A:222:SER:HA	1:A:225:MET:HB3	1.70	0.73
4:D:494:ASN:O	4:D:498:GLY:N	2.21	0.73
6:F:222:LYS:NZ	6:F:285:SER:O	2.21	0.73
2:J:263:LYS:HE2	4:L:265:VAL:HB	1.71	0.73
3:K:175:ILE:HA	3:K:214:VAL:HG22	1.71	0.73
3:K:218:VAL:HG11	3:K:323:ILE:HG12	1.69	0.73
5:M:491:ILE:HA	5:M:499:ASN:HB3	1.70	0.73
4:D:492:GLY:N	4:D:501:SER:O	2.19	0.73
5:E:233:ASP:HB3	5:E:322:VAL:HA	1.71	0.73
6:F:190:MET:HA	6:F:372:VAL:H	1.52	0.73
1:I:525:LEU:HD13	4:L:54:PRO:HB2	1.68	0.73
8:P:187:CYS:HA	8:P:202:ILE:HD11	1.71	0.73
3:C:43:PRO:HB2	3:C:483:GLU:HG2	1.69	0.73
5:E:61:MET:N	5:E:69:THR:O	2.17	0.73
7:G:235:PRO:HB3	7:G:348:PHE:HB2	1.70	0.73
7:O:43:ARG:NH2	7:O:453:ALA:O	2.21	0.73
1:A:270:ILE:HA	1:A:273:GLU:HB3	1.71	0.73
1:A:423:LEU:O	1:A:427:ALA:N	2.19	0.73
2:B:412:CYS:HB2	2:B:488:MET:HE3	1.68	0.73
5:E:396:GLU:O	5:E:400:ARG:N	2.15	0.73
7:G:103:GLU:HG2	7:G:441:ALA:HA	1.70	0.73
3:K:20:ARG:HH22	3:K:27:ILE:HD12	1.52	0.73
6:N:289:PHE:HE1	6:N:344:LEU:HD13	1.54	0.73
11:3:51:LYS:HD2	11:3:177:ALA:HB1	1.71	0.73
7:G:62:GLY:O	7:G:66:LEU:N	2.19	0.73
8:H:500:THR:HG23	8:H:503:GLY:H	1.54	0.73
1:I:106:GLU:HG3	4:L:471:LEU:H	1.53	0.73
2:J:53:LEU:HD12	4:L:535:VAL:HG12	1.70	0.73
5:M:460:MET:HA	5:M:470:PRO:HB3	1.68	0.73
6:N:117:ARG:HH12	6:N:121:GLU:HB2	1.53	0.73
14:6:40:ASN:HD21	14:6:83:ILE:HG13	1.53	0.73
7:G:17:GLN:HG2	7:G:518:GLU:HG2	1.69	0.73
8:H:478:VAL:HB	8:H:484:ALA:HA	1.70	0.73
12:4:53:ALA:HB2	14:6:62:PRO:HD2	1.70	0.73
2:B:229:PRO:HB2	2:B:232:ILE:HD11	1.71	0.73
4:D:232:LYS:HG3	4:D:374:LEU:HD12	1.69	0.73
3:K:400:ASN:O	3:K:404:ASP:N	2.15	0.73
9:1:46:LEU:O	9:1:50:GLU:N	2.22	0.73
4:D:247:GLY:HA3	4:D:298:LEU:HD23	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:153:ASP:OD2	5:E:160:LYS:NZ	2.22	0.73
5:E:426:GLU:O	5:E:430:ALA:N	2.16	0.73
7:G:37:ARG:HD3	7:G:448:GLN:HE22	1.54	0.73
6:N:91:GLY:O	6:N:95:ASN:N	2.22	0.73
8:P:283:ILE:HG21	8:P:291:VAL:HG22	1.71	0.73
8:P:477:ASN:ND2	8:P:492:MET:SD	2.62	0.73
10:2:61:LEU:HD22	11:3:131:VAL:HG11	1.70	0.73
1:A:182:THR:O	1:A:214:TYR:OH	2.07	0.73
3:C:124:SER:OG	3:C:433:GLU:OE2	2.07	0.73
4:D:528:SER:O	4:D:532:ILE:N	2.21	0.73
5:E:480:ARG:O	5:E:484:GLU:N	2.20	0.73
7:G:13:THR:OG1	8:H:75:GLU:O	2.06	0.73
3:K:351:GLU:O	3:K:362:PHE:N	2.20	0.73
3:C:130:LEU:HA	3:C:506:TYR:HE2	1.54	0.72
3:C:320:ASN:O	3:C:324:ALA:N	2.19	0.72
5:E:156:LEU:HB3	5:E:161:ASP:HB3	1.70	0.72
5:E:266:LEU:HD21	7:G:260:VAL:HG13	1.71	0.72
8:P:377:LEU:HD22	8:P:388:ILE:HG13	1.69	0.72
14:6:75:THR:O	14:6:79:ARG:N	2.18	0.72
3:C:152:MET:HG2	3:C:401:VAL:HG11	1.71	0.72
6:F:88:THR:HG22	6:F:500:VAL:HG22	1.72	0.72
8:H:87:VAL:O	8:H:91:HIS:N	2.19	0.72
8:H:227:THR:HG23	8:H:311:MET:HG3	1.71	0.72
8:H:401:VAL:HB	8:H:406:LYS:HZ2	1.54	0.72
1:I:126:LYS:HA	1:I:129:VAL:HB	1.71	0.72
2:J:189:ARG:NH1	2:J:371:CYS:SG	2.62	0.72
4:L:249:ILE:HD11	4:L:300:ILE:HG22	1.72	0.72
7:G:149:VAL:HB	7:G:153:LYS:HB2	1.72	0.72
3:K:138:LYS:HE3	3:K:499:LEU:HD21	1.71	0.72
3:K:478:TRP:HE3	3:K:489:ASP:HB2	1.54	0.72
5:M:344:ARG:HD3	7:O:271:TRP:CD2	2.24	0.72
7:G:317:GLU:O	7:G:321:ARG:N	2.12	0.72
7:O:468:HIS:CE1	7:O:475:TYR:HB2	2.23	0.72
3:C:175:ILE:HG23	3:C:214:VAL:HG13	1.70	0.72
4:D:221:CYS:SG	4:D:391:ARG:N	2.60	0.72
5:E:225:ILE:HG23	5:E:375:GLU:HG2	1.71	0.72
3:K:353:LYS:HB2	3:K:362:PHE:HE2	1.54	0.72
5:M:135:ASP:OD1	5:M:525:ARG:NH2	2.22	0.72
3:C:374:ILE:HG21	3:C:391:LEU:HD21	1.71	0.72
4:D:123:LEU:HD23	4:D:126:LYS:HD3	1.72	0.72
6:F:221:MET:HG2	6:F:306:SER:HB3	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:278:LYS:NZ	6:F:287:LYS:O	2.22	0.72
7:G:464:LEU:HD21	7:G:484:ILE:HB	1.70	0.72
3:K:198:TYR:HE1	3:K:322:ARG:HD2	1.54	0.72
3:K:422:LEU:O	3:K:426:SER:N	2.20	0.72
2:B:245:ASP:HB2	2:B:297:TYR:HB2	1.71	0.72
4:D:183:LEU:O	4:D:187:SER:N	2.21	0.72
4:D:246:ILE:N	4:D:357:GLY:O	2.21	0.72
6:F:109:TYR:O	6:F:113:GLY:N	2.23	0.72
6:F:187:ASP:HB2	6:F:395:LEU:HD21	1.72	0.72
5:M:295:THR:HG21	5:M:348:LEU:HB3	1.72	0.72
4:D:235:ASN:OD1	4:D:236:SER:N	2.23	0.72
8:H:221:MET:HG3	8:H:372:ILE:HD12	1.70	0.72
8:H:323:ARG:NH2	8:H:374:THR:OG1	2.22	0.72
1:I:274:ARG:HH21	1:I:331:LEU:HD11	1.53	0.72
1:I:410:PRO:HG2	1:I:486:ILE:HG23	1.72	0.72
6:N:93:THR:H	6:N:159:LYS:HE2	1.55	0.72
6:N:126:ALA:HB2	6:N:437:VAL:HG12	1.70	0.72
6:N:205:SER:HB2	6:N:375:LEU:HB3	1.71	0.72
13:5:62:LEU:HD13	13:5:76:LEU:HB2	1.71	0.72
4:D:144:GLY:HA2	4:D:432:LEU:HD11	1.72	0.72
4:D:248:LEU:HD23	4:D:344:PRO:HA	1.72	0.72
6:N:38:LEU:HD23	6:N:450:VAL:HG11	1.70	0.72
1:A:82:GLN:NE2	1:A:513:SER:OG	2.23	0.72
1:A:169:ALA:O	1:A:173:VAL:N	2.19	0.72
1:A:229:ILE:HD12	1:A:284:ASN:HB3	1.70	0.72
3:C:50:LEU:HB2	3:C:58:VAL:HB	1.72	0.72
5:E:285:PHE:O	5:E:289:ILE:N	2.16	0.72
1:I:45:LEU:HD22	3:K:523:VAL:HG13	1.72	0.72
6:N:207:ILE:HB	6:N:362:PHE:HE1	1.53	0.72
8:P:297:VAL:HB	8:P:314:ARG:HD2	1.70	0.72
10:2:37:GLN:HE22	11:3:173:GLU:HB2	1.55	0.72
1:A:22:VAL:HG22	1:A:101:LEU:HB3	1.70	0.71
4:L:440:SER:HB3	4:L:452:ARG:HB2	1.72	0.71
5:M:221:ASP:HB3	5:M:388:ARG:NE	2.04	0.71
5:M:224:LEU:HD11	5:M:383:VAL:HG22	1.70	0.71
2:B:295:LEU:HA	2:B:313:GLU:HB2	1.71	0.71
2:B:520:ILE:HG12	5:E:60:MET:HB3	1.73	0.71
4:D:354:ASP:OD1	4:D:355:MET:N	2.23	0.71
6:F:31:GLN:NE2	6:F:97:LEU:O	2.23	0.71
7:G:216:PHE:HB2	7:G:359:ASN:HB2	1.72	0.71
2:J:47:GLY:HA3	2:J:453:ASN:HB3	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:33:ALA:HB1	7:O:37:ARG:HH12	1.55	0.71
1:A:254:ILE:H	3:C:269:GLN:HB3	1.55	0.71
1:A:341:GLU:HG2	1:A:344:MET:HG2	1.71	0.71
3:C:200:ARG:HB3	3:C:322:ARG:NH1	2.05	0.71
3:C:209:ILE:HG13	3:C:387:VAL:HG21	1.71	0.71
4:D:49:ARG:HG2	4:D:111:ILE:HD12	1.71	0.71
4:D:315:HIS:HE1	14:6:73:ARG:HG3	1.54	0.71
6:F:408:VAL:HG11	6:F:501:LYS:HZ3	1.55	0.71
6:N:91:GLY:H	6:N:159:LYS:HE3	1.53	0.71
6:N:114:LEU:HD13	6:N:119:ILE:HD11	1.72	0.71
7:O:194:MET:HA	7:O:369:THR:HG23	1.71	0.71
10:2:111:LYS:HA	10:2:114:GLU:HG2	1.72	0.71
2:B:214:LEU:HD11	2:B:371:CYS:HB3	1.70	0.71
11:3:81:ILE:O	11:3:84:THR:OG1	2.06	0.71
4:D:160:ARG:NH2	4:D:185:PRO:O	2.23	0.71
4:D:405:ILE:O	4:D:409:LEU:N	2.18	0.71
5:E:41:ALA:HB1	5:E:114:GLY:HA2	1.73	0.71
5:E:260:PRO:HA	5:E:304:TRP:CD1	2.26	0.71
7:G:458:THR:HB	1:I:436:LEU:HD21	1.71	0.71
8:H:48:GLY:HA3	8:H:452:LEU:HD11	1.72	0.71
8:H:228:GLU:HB2	8:H:312:LEU:HB2	1.72	0.71
5:M:444:GLU:HA	5:M:447:ALA:HB3	1.72	0.71
8:P:250:ILE:HG13	8:P:336:LEU:HD22	1.71	0.71
1:A:316:LEU:O	1:A:320:ALA:N	2.15	0.71
1:A:334:LEU:O	3:C:253:GLN:NE2	2.24	0.71
7:G:239:LEU:O	7:G:331:GLN:N	2.15	0.71
2:J:102:VAL:HA	2:J:507:ALA:HB2	1.70	0.71
3:K:194:ASP:OD1	3:K:399:ARG:NH2	2.23	0.71
6:N:461:GLU:O	6:N:465:LYS:NZ	2.22	0.71
9:1:62:GLU:HG3	10:2:77:VAL:HG22	1.73	0.71
10:2:109:GLN:O	10:2:113:LYS:N	2.23	0.71
11:3:126:TRP:HB2	13:5:71:TYR:HE2	1.54	0.71
2:B:466:ARG:O	2:B:470:SER:N	2.21	0.71
3:C:241:LEU:HD13	3:C:245:LEU:HD21	1.72	0.71
5:E:441:PRO:HA	5:E:445:GLN:HB3	1.73	0.71
8:H:318:LYS:O	8:H:322:ARG:N	2.24	0.71
2:J:425:ALA:HB2	2:J:436:MET:HB2	1.70	0.71
5:M:197:ALA:HB2	5:M:205:ASP:HB2	1.71	0.71
5:M:530:ILE:HG12	7:O:46:ASP:HB2	1.73	0.71
6:N:422:LEU:HD23	6:N:441:ALA:HB2	1.71	0.71
11:3:125:LEU:HG	13:5:70:MET:HG2	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:228:ARG:HG3	1:A:352:VAL:HG22	1.73	0.71
1:A:327:ILE:HD13	1:A:346:GLY:H	1.56	0.71
8:H:234:VAL:HG22	8:H:289:ASN:HD22	1.55	0.71
1:I:107:LEU:HB3	1:I:433:ARG:HD2	1.72	0.71
8:P:411:GLY:HA3	8:P:497:ILE:HG22	1.71	0.71
11:3:122:LYS:HA	11:3:136:ASP:HA	1.72	0.71
1:A:292:ILE:O	3:C:334:ARG:NH1	2.23	0.71
2:B:41:SER:O	2:B:48:MET:N	2.23	0.71
3:C:104:GLU:HG2	3:C:443:ALA:HA	1.73	0.71
3:C:400:ASN:HB3	3:C:498:PRO:HG3	1.72	0.71
5:E:62:VAL:HG22	5:E:68:VAL:HG12	1.73	0.71
5:E:438:ASP:OD1	5:E:449:ARG:NH2	2.23	0.71
8:H:475:ASN:HA	8:H:493:LEU:HB3	1.72	0.71
2:B:228:GLN:NE2	2:B:309:VAL:O	2.24	0.71
3:C:281:ASP:HB3	3:C:338:LEU:HB2	1.73	0.71
3:C:298:ASP:OD1	3:C:313:ARG:NH1	2.23	0.71
6:F:205:SER:HB2	6:F:375:LEU:HB3	1.73	0.71
3:K:173:CYS:O	3:K:177:LEU:N	2.22	0.71
4:L:49:ARG:HE	4:L:464:THR:HB	1.56	0.71
5:M:134:ALA:HB1	5:M:525:ARG:HG3	1.71	0.71
7:O:331:GLN:HE21	7:O:341:VAL:HG23	1.56	0.71
8:P:223:PHE:HB2	8:P:361:VAL:HG13	1.72	0.71
8:P:227:THR:HG21	8:P:352:LEU:HD21	1.73	0.71
8:P:319:TRP:CE2	8:P:323:ARG:HD2	2.26	0.71
10:2:39:GLY:O	10:2:109:GLN:NE2	2.24	0.71
2:B:424:LEU:HA	2:B:427:ARG:HB2	1.72	0.70
2:B:491:LEU:HB2	2:B:493:ILE:HG22	1.73	0.70
3:C:445:GLU:OE2	3:C:467:ARG:NH2	2.24	0.70
8:H:385:MET:HA	8:H:388:ILE:HB	1.73	0.70
7:O:405:VAL:HA	7:O:495:PRO:HA	1.72	0.70
7:O:418:LYS:O	7:O:422:ASP:N	2.23	0.70
10:2:57:VAL:HG11	11:3:129:ALA:HB3	1.72	0.70
1:A:112:ILE:HD12	1:A:433:ARG:HG2	1.72	0.70
3:C:21:LYS:O	3:C:25:GLY:N	2.21	0.70
8:H:341:LEU:HD13	8:H:344:MET:HA	1.73	0.70
1:I:466:LYS:HG2	1:I:495:PRO:HD2	1.73	0.70
4:L:247:GLY:N	4:L:297:VAL:O	2.21	0.70
9:1:49:THR:HA	9:1:52:MET:HB2	1.74	0.70
6:F:221:MET:HB3	6:F:311:VAL:HA	1.74	0.70
1:I:100:LEU:HD23	1:I:103:ASN:HD22	1.55	0.70
1:I:293:ASP:OD2	3:K:247:TYR:OH	2.08	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:212:LEU:HB2	6:N:361:THR:HB	1.73	0.70
8:P:291:VAL:N	8:P:311:MET:O	2.24	0.70
8:P:302:LEU:HD13	8:P:314:ARG:HD3	1.72	0.70
11:3:91:MET:HB3	11:3:99:ASN:HB3	1.72	0.70
1:A:149:ILE:HG23	1:A:169:ALA:HB3	1.73	0.70
1:A:447:VAL:HA	1:A:450:ASN:HB2	1.71	0.70
2:B:19:GLU:N	2:B:520:ILE:O	2.21	0.70
3:C:301:GLN:HG2	3:C:311:ALA:HB3	1.74	0.70
4:D:504:LEU:HA	4:D:507:LEU:HD23	1.73	0.70
6:F:347:ALA:HA	6:F:366:CYS:HA	1.72	0.70
4:L:155:VAL:HG21	4:L:415:LEU:HD22	1.73	0.70
8:P:100:GLY:HA2	8:P:103:PHE:HB3	1.72	0.70
12:4:22:LYS:O	12:4:26:PHE:N	2.19	0.70
6:F:463:LEU:HA	6:F:466:ILE:HG22	1.73	0.70
7:G:122:ILE:HG12	7:G:511:CYS:HB2	1.72	0.70
5:M:534:ARG:HD2	7:O:69:LEU:HG	1.73	0.70
6:N:47:LEU:HD12	6:N:63:LEU:HD23	1.74	0.70
6:N:381:LYS:NZ	6:N:385:THR:OG1	2.22	0.70
1:A:281:THR:HG21	1:A:340:PHE:HB2	1.74	0.70
3:C:408:VAL:N	3:C:497:GLU:O	2.23	0.70
5:E:163:GLU:HA	5:E:166:ILE:HB	1.72	0.70
6:F:250:TYR:H	6:F:256:ARG:HD3	1.55	0.70
3:K:450:THR:HA	3:K:453:GLN:HG2	1.72	0.70
6:N:153:ARG:NH2	6:N:492:VAL:O	2.25	0.70
7:O:464:LEU:HG	7:O:484:ILE:HG22	1.74	0.70
14:6:40:ASN:HA	14:6:43:VAL:HG12	1.74	0.70
1:A:264:ARG:HH22	3:C:280:GLU:HG3	1.55	0.70
5:E:170:LYS:HB2	5:E:183:ARG:HH12	1.56	0.70
6:F:196:MET:HB2	6:F:375:LEU:HD11	1.73	0.70
1:I:199:LYS:HG2	1:I:377:LEU:HD12	1.74	0.70
2:J:388:ARG:O	2:J:392:ASP:N	2.25	0.70
4:L:440:SER:O	4:L:448:SER:OG	2.10	0.70
6:N:429:VAL:HG13	6:N:430:LYS:H	1.55	0.70
12:4:43:LYS:HB3	12:4:94:LEU:HG	1.73	0.70
1:A:45:LEU:N	1:A:53:THR:O	2.25	0.70
1:A:120:GLY:O	1:A:124:ALA:N	2.23	0.70
6:F:378:GLY:HA3	6:F:384:LEU:HD13	1.72	0.70
3:K:30:ALA:HB1	3:K:103:GLY:HA2	1.73	0.70
1:A:17:ILE:O	1:A:21:ASN:N	2.22	0.70
1:A:43:LYS:HB3	3:C:521:ASP:HB2	1.73	0.70
1:A:214:TYR:HB3	1:A:319:ILE:HG12	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:123:PRO:O	2:B:127:ILE:N	2.21	0.70
4:D:213:LYS:NZ	4:D:367:LEU:O	2.24	0.70
4:D:464:THR:O	4:D:468:ASN:N	2.24	0.70
5:E:232:LYS:HD2	5:E:322:VAL:HG22	1.71	0.70
5:E:530:ILE:HD12	5:E:532:ASP:HB2	1.71	0.70
8:H:220:GLY:HA2	8:H:372:ILE:HG13	1.72	0.70
7:O:292:LYS:NZ	7:O:316:GLU:OE1	2.25	0.70
1:A:287:LEU:HD23	1:A:308:VAL:HB	1.74	0.70
5:E:173:LEU:HD23	5:E:401:SER:HB2	1.72	0.70
8:P:238:LYS:HA	8:P:346:HIS:HA	1.73	0.70
3:C:257:GLU:HA	3:C:267:ILE:HG21	1.73	0.69
4:D:123:LEU:HA	4:D:126:LYS:HB3	1.74	0.69
4:D:475:SER:HA	5:M:443:LEU:HD22	1.74	0.69
5:E:225:ILE:HG21	5:E:229:ILE:HG23	1.74	0.69
5:E:412:LEU:O	5:E:416:ASN:ND2	2.25	0.69
6:F:470:HIS:HE1	6:F:476:LEU:HA	1.56	0.69
1:I:452:LEU:HD13	1:I:490:LEU:HD11	1.73	0.69
5:M:411:ASN:HD22	5:M:414:ARG:HH21	1.40	0.69
6:N:195:GLU:HB3	6:N:384:LEU:HD21	1.74	0.69
1:A:228:ARG:NH2	1:A:350:GLU:OE1	2.24	0.69
5:E:259:LYS:O	5:E:261:LYS:N	2.22	0.69
5:E:289:ILE:O	5:E:293:LYS:N	2.21	0.69
8:H:409:VAL:N	8:H:499:ASP:O	2.23	0.69
2:J:189:ARG:HD2	2:J:369:GLU:HA	1.73	0.69
2:J:521:ILE:H	5:M:61:MET:HG2	1.57	0.69
3:K:208:ILE:HG23	3:K:211:ASP:H	1.57	0.69
3:K:479:GLY:N	3:K:488:VAL:O	2.24	0.69
7:O:228:GLN:HE22	7:O:303:PHE:HB3	1.58	0.69
8:P:63:LEU:O	8:P:383:ASN:ND2	2.24	0.69
2:B:205:LEU:HB2	2:B:380:GLN:HE21	1.56	0.69
2:B:516:ARG:NH2	5:E:56:GLY:O	2.24	0.69
4:D:155:VAL:O	4:D:419:ARG:NH1	2.24	0.69
5:E:227:GLY:O	5:E:384:THR:OG1	2.09	0.69
5:M:164:PRO:HA	5:M:167:GLN:HB2	1.74	0.69
6:N:88:THR:HG22	6:N:90:ASP:H	1.55	0.69
8:P:22:PHE:H	8:P:524:ILE:HB	1.57	0.69
13:5:36:LEU:HD22	13:5:110:LEU:HD11	1.74	0.69
1:A:366:ASN:HA	1:A:372:SER:H	1.56	0.69
3:C:213:CYS:H	3:C:375:LEU:HD23	1.56	0.69
5:E:525:ARG:NH1	7:G:384:GLU:OE2	2.26	0.69
6:F:201:GLU:HA	6:F:378:GLY:HA2	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:347:CYS:HA	8:H:365:HIS:HB3	1.72	0.69
1:I:420:SER:HB2	1:I:446:LEU:HD21	1.75	0.69
8:P:179:LEU:HD11	8:P:388:ILE:HG22	1.74	0.69
1:A:135:ASN:HA	1:A:475:GLN:HE22	1.58	0.69
1:A:326:THR:OG1	1:A:343:ALA:O	2.09	0.69
2:B:132:GLU:O	2:B:136:ALA:N	2.23	0.69
2:B:244:MET:HB2	2:B:296:ILE:HA	1.74	0.69
3:C:289:VAL:HG21	3:C:350:LEU:HD13	1.73	0.69
4:D:180:SER:O	4:D:184:SER:N	2.16	0.69
5:E:59:LYS:O	5:E:71:THR:N	2.24	0.69
7:G:398:ARG:HE	7:G:495:PRO:HD2	1.58	0.69
3:C:247:TYR:HA	3:C:275:ILE:HD11	1.74	0.69
4:D:259:ASP:OD2	14:6:89:ARG:HA	1.93	0.69
4:D:399:GLU:HB3	4:D:403:ARG:HH12	1.56	0.69
4:D:437:THR:HG23	4:D:455:ALA:HB3	1.75	0.69
8:H:131:GLY:HA3	8:H:437:ALA:HB3	1.72	0.69
8:H:423:ILE:O	8:H:427:GLY:N	2.25	0.69
1:A:145:ARG:HG3	1:A:504:PHE:HB2	1.75	0.69
2:B:71:LEU:HD22	2:B:85:VAL:HG22	1.75	0.69
4:D:122:LYS:O	4:D:126:LYS:N	2.18	0.69
3:K:33:ILE:HG22	3:K:99:ILE:HD13	1.75	0.69
3:K:138:LYS:O	3:K:406:GLN:NE2	2.25	0.69
4:L:49:ARG:NH1	4:L:111:ILE:O	2.26	0.69
1:A:135:ASN:HD21	1:A:415:VAL:HG12	1.58	0.69
2:B:183:ALA:HB2	2:B:390:LEU:HD11	1.74	0.69
3:C:91:VAL:O	3:C:396:GLN:NE2	2.26	0.69
4:D:146:GLU:O	4:D:149:THR:OG1	2.09	0.69
6:F:217:ARG:HG2	6:F:302:LEU:HD12	1.75	0.69
7:G:288:VAL:HG11	7:G:361:PHE:HZ	1.58	0.69
8:H:279:GLN:HG3	8:H:339:PRO:HD3	1.74	0.69
1:I:106:GLU:HA	4:L:470:GLY:HA3	1.73	0.69
2:J:332:ALA:HB3	2:J:341:VAL:HG22	1.73	0.69
3:K:374:ILE:HD11	3:K:391:LEU:HD13	1.75	0.69
8:P:97:VAL:HG21	8:P:503:GLY:HA2	1.73	0.69
11:3:53:LEU:O	11:3:57:TYR:N	2.24	0.69
2:B:239:ILE:HG21	2:B:324:ALA:HB2	1.74	0.69
4:D:441:ARG:HD3	5:M:431:LEU:HG	1.75	0.69
5:E:200:GLU:HB2	5:E:203:ASP:O	1.93	0.69
6:F:115:HIS:HB3	6:F:118:ILE:HG22	1.75	0.69
7:G:66:LEU:HD13	7:G:80:VAL:HG13	1.73	0.69
7:G:405:VAL:HA	7:G:495:PRO:HA	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:409:VAL:HG22	8:H:504:LYS:HG3	1.75	0.69
2:J:42:THR:O	2:J:169:SER:OG	2.11	0.69
2:J:237:ILE:HG22	2:J:349:ILE:HD11	1.74	0.69
5:M:129:HIS:H	5:M:132:ARG:HD3	1.58	0.69
5:M:174:GLY:HA2	5:M:179:ASN:HD22	1.57	0.69
5:M:183:ARG:HA	5:M:186:ALA:HB3	1.74	0.69
6:N:234:ASN:HD21	6:N:318:ARG:HH22	1.41	0.69
1:A:467:LEU:HD21	1:A:495:PRO:HB3	1.74	0.69
4:D:49:ARG:HH22	4:D:114:GLY:H	1.40	0.69
4:D:229:LEU:HD12	4:D:374:LEU:HD22	1.75	0.69
7:G:166:LYS:HD2	7:G:384:GLU:HB3	1.75	0.69
7:G:388:SER:O	7:G:392:ALA:N	2.26	0.69
4:L:245:LYS:HA	4:L:359:ALA:HB3	1.75	0.69
5:M:252:THR:HB	5:M:344:ARG:HG2	1.75	0.69
1:A:275:ILE:HG13	1:A:299:TYR:HB2	1.75	0.68
1:A:313:LYS:HA	1:A:316:LEU:HB3	1.74	0.68
2:B:176:LYS:O	2:B:180:THR:N	2.24	0.68
3:C:409:PRO:HB3	3:C:490:MET:HB2	1.74	0.68
8:H:410:PRO:HG3	8:H:493:LEU:HD13	1.74	0.68
2:J:444:ARG:HD2	2:J:462:VAL:HB	1.75	0.68
5:M:58:ASP:OD1	5:M:72:ASN:ND2	2.27	0.68
5:M:166:ILE:HA	5:M:169:ALA:HB3	1.75	0.68
1:A:131:TYR:HB2	1:A:422:TYR:CE2	2.28	0.68
2:B:522:LYS:HA	5:E:62:VAL:HB	1.76	0.68
4:D:298:LEU:HB2	4:D:324:VAL:HG22	1.75	0.68
4:D:441:ARG:HA	5:M:478:ARG:HH22	1.58	0.68
6:F:399:LYS:O	6:F:403:ASP:N	2.26	0.68
6:F:413:ALA:HB1	6:F:476:LEU:HB3	1.75	0.68
3:K:320:ASN:O	3:K:324:ALA:N	2.16	0.68
5:M:419:VAL:HG11	5:M:513:LYS:HG3	1.76	0.68
10:2:84:LYS:HG3	10:2:85:GLU:HG3	1.74	0.68
1:A:274:ARG:NH2	1:A:296:CYS:SG	2.67	0.68
2:B:290:PHE:N	2:B:310:MET:O	2.24	0.68
3:C:216:ARG:NH2	3:C:366:CYS:O	2.26	0.68
5:E:223:LYS:HB2	5:E:386:PHE:HB3	1.76	0.68
6:F:468:ALA:O	6:F:472:GLU:N	2.19	0.68
1:I:112:ILE:HD12	1:I:433:ARG:HB2	1.74	0.68
2:J:150:SER:HB2	2:J:154:LYS:HG3	1.76	0.68
4:L:72:ASN:OD1	4:L:73:ASP:N	2.27	0.68
4:L:163:LEU:HG	4:L:412:ILE:HG23	1.75	0.68
4:L:423:ALA:HB3	4:L:428:PRO:HD3	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:199:LYS:HG2	1:A:377:LEU:HD13	1.73	0.68
1:A:353:GLN:HA	1:A:362:ILE:HA	1.76	0.68
4:D:250:GLN:HB2	4:D:346:ALA:HA	1.74	0.68
5:E:343:PRO:HD2	5:E:352:LYS:HD2	1.75	0.68
8:H:473:GLU:HG3	8:H:476:LYS:HD3	1.74	0.68
2:J:330:GLU:HB2	2:J:342:LYS:HB3	1.74	0.68
8:P:225:LYS:HG3	8:P:316:ASN:HA	1.76	0.68
2:B:25:ARG:NH1	2:B:514:ILE:O	2.21	0.68
5:E:170:LYS:HB2	5:E:183:ARG:NH1	2.07	0.68
7:G:80:VAL:HG12	7:G:84:LYS:HE2	1.76	0.68
8:H:280:VAL:HG21	8:H:305:ALA:HB2	1.75	0.68
2:J:440:ALA:HA	2:J:443:LEU:HD12	1.74	0.68
2:J:465:LEU:HA	2:J:468:ALA:HB3	1.76	0.68
4:L:209:LYS:NZ	4:L:332:ASP:OD1	2.26	0.68
7:O:279:GLU:HG3	7:O:283:HIS:HD1	1.58	0.68
8:P:115:ALA:O	8:P:119:LEU:N	2.26	0.68
8:P:147:VAL:HA	8:P:409:VAL:HG22	1.76	0.68
8:P:500:THR:HG23	8:P:503:GLY:H	1.58	0.68
3:C:442:GLN:NE2	3:C:445:GLU:OE1	2.26	0.68
1:I:11:ARG:NH1	1:I:13:THR:OG1	2.27	0.68
1:A:49:ILE:HG23	1:A:50:GLY:H	1.59	0.68
3:C:481:ASN:HB3	3:C:484:THR:HG22	1.76	0.68
6:F:44:MET:HG2	6:F:58:LYS:HB2	1.75	0.68
7:G:407:ALA:HB2	7:G:488:PHE:HB2	1.74	0.68
6:N:213:ASP:HB2	6:N:317:LYS:HG3	1.76	0.68
6:N:413:ALA:HB2	6:N:489:ALA:HB3	1.75	0.68
7:O:350:GLU:OE2	7:O:357:ARG:NE	2.23	0.68
7:O:460:ILE:HD13	7:O:483:ASP:HA	1.76	0.68
8:P:66:THR:HG22	8:P:390:ARG:HH21	1.59	0.68
3:C:335:PRO:HA	3:C:338:LEU:HD21	1.75	0.68
5:E:250:ILE:HD11	5:E:333:ILE:HG12	1.74	0.68
5:E:417:ARG:HB3	5:E:510:LEU:HB3	1.76	0.68
6:F:231:LEU:O	6:F:292:ILE:N	2.26	0.68
8:H:81:PRO:O	8:H:85:MET:N	2.26	0.68
8:H:421:LYS:HE3	8:H:468:TYR:HA	1.76	0.68
3:K:146:ILE:HB	3:K:402:LEU:HD23	1.76	0.68
5:M:420:TYR:HB3	5:M:501:MET:HB3	1.74	0.68
6:N:279:ARG:NH1	6:N:308:GLU:OE2	2.26	0.68
14:6:16:TYR:CE1	14:6:105:ARG:HB2	2.29	0.68
2:B:112:GLU:HB3	2:B:438:SER:OG	1.93	0.68
3:C:243:SER:HA	3:C:295:GLY:HA3	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:264:ARG:HH22	6:F:300:PHE:HB2	1.59	0.68
8:H:432:GLY:O	8:H:435:GLN:HG2	1.92	0.68
4:D:243:LYS:HZ2	4:D:358:SER:HG	1.39	0.68
5:E:309:GLU:O	5:E:312:HIS:ND1	2.26	0.68
7:G:260:VAL:HA	7:G:263:TYR:HD2	1.58	0.68
8:H:198:ASN:OD1	8:H:201:ASN:ND2	2.27	0.68
8:H:424:THR:HB	8:H:442:ALA:HB3	1.76	0.68
3:K:131:ASP:O	3:K:135:SER:N	2.24	0.68
7:O:237:ILE:O	7:O:343:GLY:N	2.24	0.68
1:A:498:ASN:HA	1:A:502:GLY:HA3	1.76	0.67
2:B:385:GLU:HG3	2:B:388:ARG:HH21	1.59	0.67
3:C:329:ALA:HB1	3:C:343:VAL:HA	1.76	0.67
5:E:231:ASP:HA	5:E:371:MET:HA	1.75	0.67
6:F:477:VAL:HA	6:F:488:VAL:HA	1.75	0.67
7:G:469:ALA:HB2	1:I:428:THR:HG22	1.75	0.67
8:H:54:LYS:H	8:H:65:VAL:HG23	1.59	0.67
8:H:209:GLY:N	8:H:379:GLY:O	2.26	0.67
1:I:45:LEU:N	1:I:53:THR:O	2.25	0.67
3:K:47:MET:SD	3:K:61:ASN:ND2	2.67	0.67
4:L:176:VAL:O	4:L:180:SER:OG	2.12	0.67
5:M:209:ILE:HG21	5:M:406:LEU:HD21	1.75	0.67
5:M:493:CYS:H	5:M:504:GLN:HE22	1.40	0.67
6:N:130:ALA:O	6:N:134:LEU:N	2.20	0.67
7:O:214:VAL:HG21	7:O:321:ARG:HB3	1.75	0.67
1:A:327:ILE:HG13	1:A:329:SER:H	1.58	0.67
2:B:423:GLN:O	2:B:427:ARG:N	2.26	0.67
5:E:133:ILE:O	5:E:137:TYR:N	2.27	0.67
7:G:192:LEU:HB3	7:G:393:ILE:HG21	1.75	0.67
7:G:466:ALA:HB2	1:I:431:GLY:HA3	1.76	0.67
8:H:20:LYS:O	8:H:523:GLN:NE2	2.26	0.67
2:J:165:THR:HG21	2:J:495:GLU:HB2	1.76	0.67
2:J:350:GLU:O	2:J:361:HIS:N	2.20	0.67
3:K:407:LEU:HA	3:K:499:LEU:HB2	1.76	0.67
5:M:299:LEU:HD12	5:M:321:ALA:HA	1.75	0.67
5:M:535:LYS:NZ	5:M:540:GLU:O	2.23	0.67
5:M:540:GLU:HB3	7:O:50:VAL:HG11	1.77	0.67
8:P:163:LEU:HD22	8:P:402:LEU:HD13	1.76	0.67
9:1:66:ARG:HH21	13:5:71:TYR:HE1	1.42	0.67
11:3:101:MET:HG2	12:4:76:ILE:HD13	1.76	0.67
2:B:421:VAL:HG21	2:B:439:TYR:HE2	1.59	0.67
3:C:292:THR:N	3:C:312:ILE:O	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:183:LEU:HD23	4:D:405:ILE:HG23	1.75	0.67
5:E:512:GLY:O	5:E:516:GLN:N	2.27	0.67
2:J:84:LEU:HD21	2:J:106:ALA:HB3	1.74	0.67
2:J:506:SER:O	2:J:510:ALA:N	2.27	0.67
3:K:47:MET:N	6:N:517:LEU:O	2.24	0.67
3:K:218:VAL:HA	3:K:373:THR:H	1.59	0.67
6:N:348:GLY:HA3	6:N:365:LYS:HB3	1.77	0.67
8:P:103:PHE:CE1	8:P:448:ILE:HG13	2.29	0.67
8:P:242:TYR:HD1	8:P:333:LEU:HB2	1.58	0.67
1:A:433:ARG:O	1:A:437:ALA:N	2.25	0.67
3:C:122:VAL:O	3:C:126:TYR:N	2.27	0.67
6:F:196:MET:HB3	6:F:377:LYS:HA	1.76	0.67
8:H:422:GLN:O	8:H:426:TYR:N	2.23	0.67
2:J:195:ASN:HB3	2:J:198:ALA:HB3	1.76	0.67
2:J:263:LYS:HA	2:J:266:GLU:HB2	1.76	0.67
3:K:324:ALA:O	3:K:328:GLY:N	2.26	0.67
3:K:478:TRP:CE3	3:K:489:ASP:HB2	2.29	0.67
8:P:56:VAL:N	8:P:64:PHE:O	2.27	0.67
11:3:153:LYS:HA	11:3:156:ASP:HB3	1.76	0.67
4:D:363:GLU:O	4:D:375:LYS:N	2.27	0.67
8:H:99:ASP:HA	8:H:171:LYS:HZ3	1.59	0.67
1:I:157:SER:HA	1:I:160:ILE:HB	1.76	0.67
4:L:229:LEU:HD12	4:L:374:LEU:HD23	1.77	0.67
5:M:185:MET:HA	5:M:188:ILE:HG12	1.76	0.67
5:M:263:LYS:HZ2	7:O:266:ILE:HB	1.58	0.67
10:2:58:ILE:HG22	10:2:90:LEU:HB3	1.77	0.67
14:6:37:LEU:HD12	14:6:80:LEU:HD12	1.75	0.67
2:B:21:ALA:O	2:B:25:ARG:N	2.24	0.67
2:B:123:PRO:HA	2:B:126:ILE:HB	1.75	0.67
2:B:419:HIS:HE1	2:B:466:ARG:HA	1.59	0.67
3:C:85:ARG:HA	3:C:88:ASP:HB3	1.76	0.67
3:C:155:ILE:HG12	3:C:496:TRP:HB2	1.75	0.67
3:C:351:GLU:O	3:C:362:PHE:N	2.23	0.67
4:D:276:LEU:HB3	4:D:280:ARG:HE	1.58	0.67
5:E:522:GLN:OE1	7:G:380:GLN:NE2	2.28	0.67
2:J:79:PRO:HB3	5:M:62:VAL:HG11	1.75	0.67
3:K:215:LEU:HB2	3:K:375:LEU:HB3	1.77	0.67
4:L:283:ILE:HD13	4:L:313:ALA:HB2	1.76	0.67
6:N:106:ALA:HB2	6:N:123:PHE:HZ	1.59	0.67
8:P:172:GLN:HG2	8:P:174:GLY:H	1.59	0.67
2:B:228:GLN:HB3	2:B:310:MET:HA	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:400:GLU:O	4:D:404:SER:N	2.26	0.67
8:H:388:ILE:O	8:H:392:VAL:N	2.26	0.67
4:L:410:CYS:O	4:L:414:CYS:N	2.25	0.67
4:L:447:GLU:HA	4:L:450:CYS:HB2	1.76	0.67
6:N:274:ILE:HB	6:N:305:LEU:HD21	1.77	0.67
7:O:398:ARG:HG3	7:O:495:PRO:HG2	1.77	0.67
8:P:118:LEU:HD22	8:P:123:LEU:HD22	1.75	0.67
8:P:224:LYS:HA	8:P:360:VAL:HG21	1.76	0.67
14:6:86:GLU:HB3	14:6:89:ARG:HE	1.58	0.67
5:E:243:VAL:HG11	5:E:360:GLN:HA	1.76	0.67
6:F:154:THR:HB	6:F:157:ARG:HH21	1.60	0.67
6:F:462:THR:HG23	6:F:486:PRO:HD3	1.75	0.67
7:G:406:VAL:HG11	7:G:499:ARG:HG3	1.76	0.67
2:J:156:ARG:HD2	2:J:184:VAL:HG11	1.76	0.67
3:K:284:GLN:OE1	3:K:334:ARG:NH2	2.28	0.67
4:L:60:MET:HG2	4:L:70:ILE:HG13	1.76	0.67
5:M:225:ILE:HB	5:M:384:THR:HB	1.76	0.67
7:O:329:SER:HB3	7:O:341:VAL:HG12	1.76	0.67
5:E:285:PHE:HZ	5:E:310:ALA:HB1	1.59	0.67
6:F:28:ARG:O	6:F:32:ASP:N	2.26	0.67
7:G:121:ILE:HG13	7:G:122:ILE:H	1.59	0.67
7:G:171:GLN:O	7:G:175:PHE:N	2.26	0.67
8:H:302:LEU:O	8:H:306:ASN:N	2.28	0.67
1:I:318:ARG:O	1:I:322:ALA:N	2.28	0.67
4:L:62:GLN:HG3	4:L:68:VAL:HG22	1.76	0.67
7:O:133:VAL:HA	7:O:500:ILE:HG13	1.76	0.67
7:O:209:GLN:O	7:O:373:ILE:N	2.28	0.67
1:A:274:ARG:HB3	1:A:337:GLU:HB3	1.76	0.67
4:D:168:THR:O	4:D:172:ASN:N	2.28	0.67
8:H:43:THR:HA	8:H:46:ALA:HB3	1.75	0.67
8:H:282:ALA:O	8:H:286:THR:N	2.26	0.67
2:J:190:LEU:HB2	2:J:195:ASN:ND2	2.10	0.67
2:J:394:LEU:O	2:J:398:ALA:N	2.25	0.67
5:M:292:ILE:HG21	5:M:300:ALA:HB2	1.76	0.67
5:M:333:ILE:O	5:M:337:THR:OG1	2.11	0.67
3:C:417:ALA:HA	3:C:470:HIS:CD2	2.30	0.66
4:D:161:GLU:O	4:D:165:ASN:N	2.27	0.66
8:H:453:ALA:HB1	8:H:458:VAL:HG23	1.77	0.66
3:K:152:MET:HG2	3:K:401:VAL:HG11	1.76	0.66
5:M:25:LYS:HE3	7:O:51:ASP:HA	1.76	0.66
5:M:481:GLN:O	5:M:485:MET:N	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:56:LEU:HD21	8:P:521:VAL:HG12	1.76	0.66
11:3:61:LYS:HD3	12:4:23:ILE:HG23	1.77	0.66
3:C:149:SER:O	3:C:153:LEU:N	2.23	0.66
5:E:202:ARG:NH2	5:E:416:ASN:OD1	2.28	0.66
6:F:31:GLN:HG3	6:F:97:LEU:HA	1.76	0.66
6:F:212:LEU:O	6:F:361:THR:N	2.28	0.66
7:G:57:THR:HG21	7:G:65:ILE:HG12	1.78	0.66
8:H:168:ILE:O	8:H:172:GLN:N	2.27	0.66
8:H:319:TRP:HE3	8:H:322:ARG:HH21	1.44	0.66
2:J:190:LEU:HB2	2:J:195:ASN:HD21	1.60	0.66
3:K:50:LEU:HB3	3:K:58:VAL:HB	1.75	0.66
4:L:160:ARG:HH12	4:L:189:ASN:HA	1.60	0.66
5:M:301:ILE:HB	5:M:325:VAL:HG21	1.76	0.66
5:M:475:THR:HG22	5:M:478:ARG:HD3	1.77	0.66
11:3:102:GLU:O	12:4:75:PHE:N	2.26	0.66
1:A:120:GLY:HA3	1:A:437:ALA:HB1	1.76	0.66
2:B:95:VAL:HG22	2:B:502:GLN:HB3	1.77	0.66
3:C:241:LEU:HD21	3:C:282:ILE:HG12	1.77	0.66
6:F:149:ILE:HG23	6:F:169:THR:HG21	1.78	0.66
3:K:104:GLU:HG3	3:K:443:ALA:HB1	1.77	0.66
6:N:232:THR:HG21	6:N:321:MET:HG3	1.77	0.66
6:N:408:VAL:O	6:N:496:ASP:N	2.27	0.66
9:1:23:THR:HG21	9:1:104:SER:HB2	1.77	0.66
14:6:33:LEU:O	14:6:37:LEU:N	2.19	0.66
2:B:52:LEU:N	2:B:62:MET:O	2.19	0.66
2:B:282:ILE:HA	2:B:285:HIS:CD2	2.30	0.66
7:G:278:LEU:HD21	7:G:302:TYR:HD2	1.60	0.66
8:H:27:GLU:HA	8:H:31:ARG:HB3	1.77	0.66
8:H:155:ARG:NH1	8:H:189:SER:O	2.29	0.66
3:K:50:LEU:N	3:K:58:VAL:O	2.25	0.66
4:L:85:HIS:HD2	4:L:86:PRO:HD2	1.60	0.66
3:C:160:ILE:HG21	3:C:173:CYS:SG	2.36	0.66
3:C:218:VAL:N	3:C:326:ALA:HA	2.09	0.66
4:D:471:LEU:HD22	4:D:499:GLY:HA2	1.77	0.66
7:G:199:LYS:HG3	7:G:382:MET:HE1	1.77	0.66
8:H:49:PRO:HB2	8:H:480:LEU:HB3	1.77	0.66
1:I:110:GLN:OE1	1:I:433:ARG:NH1	2.24	0.66
2:J:145:ALA:O	2:J:405:ARG:NH1	2.28	0.66
3:K:291:ILE:HG22	3:K:312:ILE:HB	1.78	0.66
4:L:280:ARG:HE	4:L:312:LEU:HD22	1.60	0.66
6:N:187:ASP:HB3	6:N:190:MET:HB2	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:45:LEU:HB2	1:A:53:THR:HB	1.78	0.66
1:A:121:TYR:CD1	1:A:441:PHE:HB2	2.30	0.66
2:B:232:ILE:HG21	2:B:288:ASN:HB3	1.76	0.66
2:B:293:ARG:HH22	2:B:321:GLU:HG3	1.60	0.66
3:C:118:HIS:CE1	3:C:121:VAL:HB	2.30	0.66
4:D:247:GLY:O	4:D:299:LEU:N	2.21	0.66
1:I:45:LEU:HB3	3:K:523:VAL:HG22	1.76	0.66
3:K:217:GLY:HA2	3:K:370:LYS:HE3	1.76	0.66
6:N:293:ASN:N	6:N:313:LEU:O	2.28	0.66
1:A:121:TYR:HD1	1:A:441:PHE:HB2	1.61	0.66
1:A:149:ILE:HG22	1:A:153:LYS:HE2	1.78	0.66
2:B:462:VAL:O	2:B:466:ARG:N	2.22	0.66
7:G:202:GLY:H	7:G:377:GLY:HA2	1.60	0.66
1:I:129:VAL:HA	1:I:132:ILE:HD12	1.77	0.66
2:J:129:GLY:HA3	2:J:435:ALA:HB3	1.76	0.66
3:K:183:VAL:HB	3:K:190:ARG:HB2	1.78	0.66
4:L:201:THR:HA	4:L:417:LYS:HA	1.77	0.66
4:L:510:GLN:NE2	4:L:515:SER:OG	2.28	0.66
5:M:225:ILE:N	5:M:384:THR:O	2.27	0.66
5:M:251:LEU:H	5:M:330:ILE:HD11	1.61	0.66
6:N:451:LEU:O	6:N:455:SER:N	2.25	0.66
7:O:117:HIS:CE1	7:O:121:ILE:HB	2.30	0.66
1:A:58:GLY:HA2	1:A:61:ILE:HG12	1.78	0.66
3:C:51:LEU:HD13	6:F:72:PRO:HB3	1.78	0.66
3:C:153:LEU:HA	3:C:156:ILE:HB	1.78	0.66
5:E:105:GLY:HA3	5:E:516:GLN:NE2	2.11	0.66
7:G:188:ASP:OD1	7:G:397:ARG:NH2	2.29	0.66
7:G:464:LEU:O	7:G:468:HIS:N	2.26	0.66
7:O:81:ASP:HA	7:O:84:LYS:HB3	1.76	0.66
7:O:276:ASP:O	7:O:280:LYS:N	2.29	0.66
2:B:127:ILE:HG22	2:B:131:ARG:HE	1.61	0.66
4:D:154:PRO:HA	4:D:420:ALA:HA	1.75	0.66
4:D:173:SER:HB2	4:D:508:VAL:HA	1.78	0.66
1:I:146:ASP:HB3	1:I:149:ILE:HB	1.77	0.66
1:I:231:ASN:O	1:I:351:VAL:N	2.26	0.66
2:J:429:PRO:HG2	2:J:433:ALA:N	2.11	0.66
3:K:38:ARG:HD2	3:K:447:ILE:HA	1.77	0.66
4:L:32:GLN:O	4:L:36:SER:N	2.26	0.66
5:M:526:MET:HG3	7:O:380:GLN:HB3	1.76	0.66
7:O:320:LYS:HZ2	7:O:330:ILE:HD13	1.61	0.66
8:P:475:ASN:HB2	8:P:491:ASP:HB3	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:1:51:ILE:HG13	9:1:73:LYS:HE3	1.77	0.66
10:2:35:GLN:NE2	10:2:116:ASN:OD1	2.29	0.66
1:A:185:ARG:HH22	1:A:330:THR:HG21	1.61	0.66
7:G:478:ASP:OD1	7:G:487:ASN:ND2	2.29	0.66
1:I:103:ASN:OD1	1:I:443:ARG:NH2	2.29	0.66
3:K:240:LEU:H	3:K:331:ILE:HG23	1.59	0.66
5:M:86:GLN:NE2	7:O:48:LEU:HD21	2.10	0.66
6:N:431:GLY:O	6:N:435:LEU:N	2.26	0.66
7:O:522:ASN:HB2	8:P:58:ASN:HA	1.78	0.66
1:A:294:ASP:HA	1:A:297:LEU:HB3	1.78	0.65
1:A:434:GLU:HA	1:A:437:ALA:HB3	1.76	0.65
3:C:113:LEU:HB3	3:C:118:HIS:NE2	2.11	0.65
4:D:232:LYS:HE2	4:D:239:THR:HA	1.78	0.65
4:D:269:TYR:OH	14:6:25:LYS:O	2.14	0.65
5:E:248:ILE:HG23	5:E:354:GLY:HA3	1.76	0.65
2:J:84:LEU:HD23	2:J:103:THR:HA	1.78	0.65
6:N:349:LEU:HB3	6:N:364:GLU:HB2	1.77	0.65
7:O:204:ALA:O	7:O:375:ARG:NE	2.25	0.65
8:P:135:ALA:HB2	8:P:438:ILE:HG13	1.79	0.65
8:P:168:ILE:HD12	8:P:391:ALA:HB1	1.76	0.65
1:A:286:ILE:O	1:A:308:VAL:N	2.29	0.65
1:A:470:PHE:CE2	1:A:495:PRO:HG3	2.32	0.65
2:B:126:ILE:HA	2:B:435:ALA:HB2	1.77	0.65
6:F:128:GLU:O	6:F:132:GLN:N	2.22	0.65
7:G:15:SER:HA	7:G:520:ILE:HA	1.77	0.65
7:G:181:ASP:O	7:G:185:MET:N	2.24	0.65
8:H:48:GLY:O	8:H:50:ASN:ND2	2.29	0.65
8:H:207:ILE:N	8:H:377:LEU:O	2.28	0.65
8:H:244:CYS:HB3	8:H:247:ASP:HB2	1.77	0.65
1:I:153:LYS:NZ	1:I:166:ASP:OD1	2.29	0.65
3:K:391:LEU:O	3:K:395:MET:N	2.18	0.65
6:N:237:LEU:HD13	6:N:301:SER:HB2	1.79	0.65
6:N:347:ALA:HB3	6:N:350:VAL:HG23	1.77	0.65
8:P:223:PHE:CD2	8:P:313:VAL:HG11	2.31	0.65
8:P:277:ASP:HA	8:P:304:TYR:CE2	2.31	0.65
1:A:472:ASN:HB2	1:A:483:LEU:HD22	1.79	0.65
3:C:265:THR:HG21	9:1:96:GLN:HG3	1.78	0.65
5:E:475:THR:HG23	4:L:445:GLY:HA2	1.79	0.65
8:H:150:SER:HA	8:H:408:LEU:H	1.62	0.65
1:I:139:ASN:O	1:I:408:VAL:HG21	1.96	0.65
1:I:172:VAL:HG13	1:I:396:LEU:HD23	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:153:ARG:O	6:N:157:ARG:N	2.28	0.65
7:O:230:LYS:HB2	7:O:350:GLU:HB3	1.78	0.65
5:E:528:LEU:HD23	7:G:43:ARG:HD2	1.78	0.65
6:F:224:ARG:HE	6:F:351:TYR:HB2	1.60	0.65
1:I:100:LEU:O	1:I:104:ALA:N	2.25	0.65
3:K:219:MET:H	3:K:373:THR:HB	1.62	0.65
7:O:193:LYS:NZ	7:O:324:MET:SD	2.61	0.65
4:D:436:LEU:O	4:D:440:SER:N	2.26	0.65
5:E:337:THR:HB	5:E:355:PHE:H	1.62	0.65
6:F:232:THR:HG21	6:F:321:MET:HA	1.77	0.65
6:F:293:ASN:N	6:F:313:LEU:O	2.29	0.65
7:G:222:TYR:HB2	7:G:225:PHE:HB2	1.79	0.65
7:G:427:ILE:HG23	7:G:432:GLN:HA	1.78	0.65
8:H:241:VAL:HA	8:H:292:VAL:HB	1.79	0.65
8:H:349:SER:O	8:H:364:LYS:N	2.29	0.65
8:H:449:PRO:HG3	8:H:477:ASN:HD21	1.61	0.65
1:I:19:SER:HA	1:I:22:VAL:HG22	1.78	0.65
1:I:121:TYR:HD1	1:I:441:PHE:HB2	1.61	0.65
2:J:456:TYR:HE2	2:J:461:LEU:HB2	1.61	0.65
3:K:38:ARG:NE	3:K:450:THR:HG21	2.12	0.65
3:K:44:LYS:NZ	3:K:483:GLU:O	2.29	0.65
4:L:430:ILE:HD11	4:L:462:PRO:HD3	1.78	0.65
8:P:203:ARG:HE	8:P:326:LYS:HE3	1.60	0.65
8:P:242:TYR:O	8:P:294:GLY:N	2.19	0.65
9:1:16:LEU:HD22	9:1:111:ASN:HB2	1.78	0.65
11:3:54:ASP:HA	11:3:57:TYR:HB3	1.79	0.65
1:A:471:HIS:CE1	7:O:426:THR:HA	2.32	0.65
3:C:64:ASN:HB3	3:C:68:ARG:HH12	1.61	0.65
4:D:145:ILE:HG23	4:D:519:LEU:HD23	1.78	0.65
5:E:223:LYS:O	5:E:386:PHE:N	2.28	0.65
1:I:49:ILE:HG23	1:I:50:GLY:H	1.62	0.65
2:J:393:ALA:O	2:J:397:LEU:N	2.25	0.65
2:J:466:ARG:O	2:J:470:SER:N	2.24	0.65
3:C:217:GLY:N	3:C:371:ALA:O	2.30	0.65
4:D:436:LEU:HB2	4:D:455:ALA:HB2	1.79	0.65
6:F:26:ALA:HB1	8:H:16:LYS:HE2	1.77	0.65
6:F:207:ILE:HB	6:F:373:THR:HB	1.78	0.65
8:H:198:ASN:HB3	8:H:201:ASN:HB2	1.78	0.65
8:H:237:ALA:HB1	8:H:289:ASN:HB2	1.79	0.65
8:H:477:ASN:OD1	8:H:478:VAL:N	2.29	0.65
3:K:110:GLU:O	3:K:114:GLU:N	2.22	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:160:ARG:HH11	4:L:188:VAL:HG12	1.61	0.65
4:L:204:ASP:OD2	4:L:206:ARG:NH2	2.30	0.65
5:M:133:ILE:HG23	5:M:447:ALA:HB1	1.77	0.65
5:M:287:GLU:O	5:M:291:GLN:N	2.30	0.65
8:P:42:THR:O	8:P:46:ALA:N	2.29	0.65
8:P:467:LEU:HD12	8:P:489:VAL:HG12	1.78	0.65
1:A:294:ASP:OD1	1:A:309:ARG:NH1	2.30	0.65
1:I:393:HIS:HD2	1:I:396:LEU:HD12	1.62	0.65
2:J:425:ALA:HB3	2:J:437:GLU:HG3	1.79	0.65
3:K:137:LEU:O	3:K:141:SER:N	2.25	0.65
4:L:300:ILE:HG21	4:L:309:LEU:HD22	1.78	0.65
4:L:314:LEU:HD11	4:L:326:LYS:HB2	1.78	0.65
9:1:56:ASP:HA	9:1:73:LYS:HD3	1.79	0.65
9:1:94:LEU:O	9:1:98:LYS:N	2.25	0.65
1:A:395:ALA:O	1:A:399:VAL:N	2.22	0.65
2:B:475:THR:O	2:B:488:MET:N	2.30	0.65
3:C:420:HIS:O	3:C:424:GLU:N	2.19	0.65
4:L:245:LYS:HB2	4:L:295:CYS:HA	1.79	0.65
6:N:152:ALA:HA	6:N:398:VAL:HG22	1.78	0.65
6:N:191:ILE:O	6:N:323:ARG:NH2	2.30	0.65
1:A:44:MET:HG3	3:C:519:ILE:HG21	1.79	0.65
2:B:128:ALA:HA	2:B:131:ARG:HD2	1.78	0.65
6:F:59:ASP:OD1	6:F:159:LYS:NZ	2.27	0.65
8:H:114:LEU:HB3	8:H:440:LYS:HD2	1.79	0.65
3:K:503:LEU:HD11	3:K:507:LYS:HE3	1.79	0.65
1:A:180:LYS:O	1:A:373:ALA:N	2.30	0.64
3:C:481:ASN:O	3:C:485:GLY:N	2.30	0.64
4:D:333:ILE:O	4:D:337:CYS:N	2.26	0.64
8:H:436:TYR:OH	3:K:467:ARG:NH2	2.30	0.64
1:I:180:LYS:HD2	1:I:371:THR:HB	1.79	0.64
4:L:317:LEU:HD22	4:L:324:VAL:HG21	1.79	0.64
6:N:430:LYS:HB2	6:N:432:ARG:HG2	1.78	0.64
7:O:136:ILE:HG12	7:O:412:ILE:HG21	1.79	0.64
10:2:71:TYR:HB3	10:2:78:LEU:HD11	1.79	0.64
11:3:136:ASP:O	11:3:138:ASP:N	2.30	0.64
2:B:349:ILE:HD13	2:B:362:PHE:CE1	2.33	0.64
3:C:195:ILE:HG21	3:C:198:TYR:HD2	1.62	0.64
5:E:255:PHE:CZ	5:E:289:ILE:HG12	2.32	0.64
8:H:196:HIS:CE1	8:H:370:GLY:H	2.14	0.64
8:H:215:SER:OG	8:H:378:ARG:O	2.14	0.64
3:K:396:GLN:HE21	3:K:501:VAL:HG22	1.60	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:33:ILE:O	4:L:37:ASN:N	2.23	0.64
5:M:243:VAL:HG13	5:M:298:ASN:HB2	1.78	0.64
6:N:109:TYR:HB3	6:N:114:LEU:HD12	1.78	0.64
6:N:470:HIS:ND1	6:N:475:GLN:O	2.21	0.64
7:O:172:LYS:O	7:O:176:ALA:N	2.30	0.64
1:A:214:TYR:CB	1:A:319:ILE:HG12	2.27	0.64
1:A:341:GLU:HG3	1:A:343:ALA:H	1.62	0.64
3:C:354:LYS:NZ	3:C:357:ASP:O	2.29	0.64
4:D:472:ASN:ND2	4:D:475:SER:OG	2.30	0.64
5:E:111:VAL:O	5:E:115:ALA:N	2.30	0.64
5:E:249:ALA:HB1	5:E:353:LEU:HD22	1.80	0.64
5:E:434:SER:HB3	4:L:452:ARG:HH22	1.62	0.64
6:F:223:LYS:HB2	6:F:352:GLU:HB3	1.78	0.64
6:F:256:ARG:NH2	14:6:112:GLN:O	2.31	0.64
10:2:34:ARG:HA	10:2:37:GLN:HB3	1.79	0.64
1:A:127:GLU:OE1	1:A:130:ARG:NH1	2.29	0.64
5:E:143:VAL:HG23	5:E:433:VAL:HG22	1.80	0.64
8:H:69:ALA:N	8:H:102:ASN:OD1	2.30	0.64
2:J:43:LEU:HG	2:J:44:GLY:H	1.60	0.64
6:N:264:ARG:HA	6:N:267:ILE:HD12	1.80	0.64
14:6:69:LEU:O	14:6:73:ARG:N	2.30	0.64
2:B:79:PRO:HB3	5:E:68:VAL:HG11	1.79	0.64
2:B:184:VAL:O	2:B:188:LEU:N	2.30	0.64
3:C:153:LEU:O	3:C:157:ASN:N	2.20	0.64
3:C:202:GLU:O	3:C:376:LEU:HB2	1.96	0.64
3:C:484:THR:HG23	3:C:486:THR:H	1.62	0.64
4:D:384:LYS:O	4:D:385:THR:OG1	2.14	0.64
4:D:480:LEU:O	4:D:484:HIS:N	2.27	0.64
4:L:191:VAL:O	4:L:195:ILE:N	2.29	0.64
8:P:304:TYR:O	8:P:308:TYR:N	2.25	0.64
4:D:160:ARG:HH22	4:D:185:PRO:HA	1.62	0.64
5:M:131:ILE:HG22	7:O:43:ARG:HE	1.62	0.64
6:N:61:ASN:ND2	6:N:85:ASP:OD2	2.30	0.64
7:O:431:GLN:HB2	7:O:434:LEU:HB2	1.80	0.64
8:P:104:VAL:HG13	8:P:511:ALA:HB2	1.79	0.64
5:E:230:VAL:O	5:E:372:LEU:N	2.28	0.64
6:F:327:ALA:O	6:F:368:ASN:N	2.28	0.64
8:H:137:ARG:HA	8:H:140:HIS:HB2	1.78	0.64
8:H:208:LEU:H	8:H:224:LYS:NZ	1.96	0.64
3:K:211:ASP:O	3:K:353:LYS:NZ	2.31	0.64
5:M:85:HIS:ND1	5:M:538:GLU:O	2.24	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:6:74:ALA:O	14:6:78:LYS:N	2.25	0.64
4:D:209:LYS:NZ	4:D:228:VAL:O	2.30	0.64
6:F:131:LEU:HD23	6:F:134:LEU:HD12	1.79	0.64
8:H:501:TYR:O	8:H:505:TYR:N	2.25	0.64
2:J:20:ARG:HH12	5:M:47:THR:HA	1.62	0.64
3:K:180:VAL:HG13	3:K:190:ARG:HD3	1.78	0.64
6:N:30:LEU:HD21	6:N:69:ILE:HB	1.80	0.64
6:N:162:ALA:O	6:N:166:ASP:N	2.30	0.64
8:P:54:LYS:H	8:P:66:THR:H	1.46	0.64
12:4:51:GLU:OE1	12:4:91:LYS:NZ	2.31	0.64
5:E:381:ARG:NH2	7:G:221:SER:OG	2.31	0.64
4:L:304:ILE:HB	4:L:307:ASP:HA	1.79	0.64
6:N:17:GLN:HG3	6:N:20:LEU:HD23	1.80	0.64
6:N:44:MET:HB3	6:N:56:LEU:HB3	1.78	0.64
6:N:88:THR:HG21	6:N:500:VAL:HG22	1.80	0.64
1:A:211:ILE:HG12	1:A:376:ILE:HG13	1.80	0.64
2:B:433:ALA:HA	2:B:436:MET:HB2	1.81	0.64
3:C:291:ILE:HA	3:C:312:ILE:HB	1.80	0.64
3:C:437:TYR:O	3:C:441:ALA:N	2.24	0.64
7:G:238:ALA:HB3	7:G:289:VAL:HA	1.79	0.64
8:H:118:LEU:HD23	8:H:121:ILE:HD12	1.80	0.64
8:H:222:VAL:HG13	8:H:360:VAL:HG11	1.80	0.64
8:H:417:ILE:HA	8:H:420:ALA:HB3	1.78	0.64
1:I:104:ALA:HA	1:I:121:TYR:CE2	2.33	0.64
1:I:527:ILE:HB	4:L:58:ASP:HA	1.79	0.64
2:J:95:VAL:HG21	2:J:502:GLN:HG3	1.79	0.64
5:M:229:ILE:HA	5:M:373:VAL:HA	1.80	0.64
11:3:63:MET:HG3	11:3:166:ARG:HA	1.80	0.64
1:A:254:ILE:O	3:C:269:GLN:HG2	1.98	0.63
1:A:367:THR:HB	1:A:370:ARG:O	1.99	0.63
2:B:412:CYS:HA	2:B:465:LEU:HD21	1.79	0.63
6:F:113:GLY:O	6:N:460:GLN:NE2	2.31	0.63
8:H:381:THR:HG22	8:H:383:ASN:H	1.64	0.63
2:J:453:ASN:HA	4:L:129:HIS:NE2	2.14	0.63
2:J:453:ASN:HA	4:L:129:HIS:CE1	2.33	0.63
14:6:13:VAL:HG12	14:6:15:LYS:H	1.64	0.63
5:E:248:ILE:HB	5:E:359:VAL:HG21	1.79	0.63
5:E:253:CYS:HB2	5:E:254:PRO:HD2	1.79	0.63
6:F:210:LEU:HD22	6:F:324:LEU:HG	1.80	0.63
7:G:398:ARG:HH21	7:G:494:GLU:HG2	1.63	0.63
2:J:415:MET:HB2	2:J:469:HIS:CE1	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:465:LEU:HG	2:J:469:HIS:HD2	1.63	0.63
3:K:153:LEU:HA	3:K:156:ILE:HG22	1.80	0.63
4:L:102:ALA:O	4:L:410:CYS:HB3	1.99	0.63
4:L:144:GLY:HA2	4:L:432:LEU:HD11	1.80	0.63
7:O:156:GLU:HG3	7:O:176:ALA:HB1	1.81	0.63
7:O:221:SER:HA	7:O:300:THR:HG21	1.80	0.63
7:O:236:LYS:O	7:O:287:LYS:N	2.31	0.63
8:P:103:PHE:CD2	8:P:507:ALA:HB1	2.33	0.63
8:P:239:ILE:HG12	8:P:324:LEU:HD11	1.78	0.63
12:4:36:LEU:HA	12:4:101:LEU:HD23	1.80	0.63
1:A:387:GLU:OE1	1:A:390:ARG:NH2	2.31	0.63
1:A:430:MET:HB3	1:A:434:GLU:HG3	1.81	0.63
1:A:446:LEU:O	1:A:450:ASN:ND2	2.30	0.63
3:C:202:GLU:HG2	3:C:375:LEU:HD12	1.79	0.63
3:C:238:ILE:HG21	3:C:363:ILE:HG23	1.80	0.63
2:J:71:LEU:HD22	2:J:85:VAL:HG22	1.79	0.63
2:J:228:GLN:NE2	2:J:301:GLU:O	2.31	0.63
2:J:322:ARG:HH12	2:J:365:VAL:HG23	1.63	0.63
4:L:38:ILE:HG12	4:L:117:LEU:HD22	1.79	0.63
7:O:182:ALA:HB1	7:O:195:ILE:HG22	1.80	0.63
8:P:322:ARG:O	8:P:326:LYS:N	2.30	0.63
12:4:49:ASN:O	12:4:53:ALA:N	2.22	0.63
1:A:70:PRO:HA	1:A:73:LYS:HB3	1.80	0.63
1:A:145:ARG:HD3	1:A:408:VAL:HG11	1.80	0.63
1:A:450:ASN:HA	1:A:460:SER:HB3	1.78	0.63
1:A:511:VAL:HA	1:A:514:LEU:HD12	1.79	0.63
2:B:159:LEU:HD22	2:B:397:LEU:HG	1.80	0.63
4:D:164:LEU:HA	4:D:188:VAL:HG21	1.79	0.63
5:E:258:PRO:HA	5:E:323:ARG:HH22	1.63	0.63
8:H:64:PHE:HE2	8:H:66:THR:HB	1.63	0.63
2:J:167:LEU:HD23	2:J:389:SER:HB3	1.80	0.63
2:J:415:MET:HE1	2:J:462:VAL:HG12	1.81	0.63
7:O:244:LEU:HD22	7:O:278:LEU:HD23	1.78	0.63
8:P:239:ILE:HD13	8:P:241:VAL:HB	1.79	0.63
8:P:477:ASN:OD1	8:P:478:VAL:N	2.31	0.63
2:B:43:LEU:O	2:B:453:ASN:ND2	2.31	0.63
4:D:193:LYS:HE2	4:D:223:LEU:HD23	1.79	0.63
4:D:306:ARG:HE	4:D:309:LEU:HD21	1.64	0.63
7:G:427:ILE:HG21	7:G:435:ILE:HG13	1.80	0.63
8:H:381:THR:HB	8:H:384:LEU:HG	1.79	0.63
3:K:70:ILE:HG13	3:K:71:GLN:H	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:48:ILE:O	4:D:52:LEU:N	2.30	0.63
5:E:31:LEU:HA	5:E:34:LEU:HB3	1.81	0.63
6:F:215:GLY:N	6:F:313:LEU:HG	2.14	0.63
7:G:395:ILE:HG12	7:G:398:ARG:HH22	1.64	0.63
7:G:488:PHE:HA	7:G:493:TRP:CD1	2.33	0.63
7:G:522:ASN:HB2	8:H:59:HIS:N	2.14	0.63
8:H:136:CYS:O	8:H:140:HIS:N	2.22	0.63
2:J:456:TYR:CE2	2:J:461:LEU:HB2	2.34	0.63
7:O:51:ASP:O	7:O:55:LYS:HB3	1.98	0.63
2:B:257:ARG:HH22	5:E:271:VAL:HG23	1.63	0.63
3:C:292:THR:HG21	3:C:296:ILE:HD13	1.81	0.63
4:D:280:ARG:NH2	14:6:79:ARG:HD2	2.14	0.63
4:D:437:THR:HG22	4:D:452:ARG:HA	1.81	0.63
7:G:249:GLU:HB2	7:G:273:ILE:HB	1.80	0.63
8:H:410:PRO:HB3	8:H:493:LEU:HB2	1.79	0.63
1:I:153:LYS:HB2	1:I:169:ALA:HB2	1.80	0.63
3:K:49:MET:HA	3:K:59:MET:HA	1.80	0.63
6:N:45:LYS:HG3	8:P:522:ASP:HB2	1.81	0.63
6:N:109:TYR:HE2	6:N:439:ALA:HB2	1.62	0.63
11:3:60:TYR:HA	11:3:166:ARG:HG3	1.80	0.63
1:A:181:TYR:O	1:A:370:ARG:NH1	2.31	0.63
1:A:411:GLY:N	1:A:503:VAL:O	2.28	0.63
1:A:413:GLY:HA3	1:A:488:LEU:HD13	1.81	0.63
4:D:217:THR:N	4:D:220:ASP:HB2	2.07	0.63
5:E:147:HIS:HE1	5:E:428:SER:HB3	1.64	0.63
5:E:260:PRO:HD2	5:E:264:HIS:CE1	2.33	0.63
5:E:504:GLN:HB3	5:E:506:VAL:HG23	1.81	0.63
6:F:175:SER:HB3	6:F:190:MET:HB3	1.80	0.63
1:I:148:LEU:HD13	1:I:399:VAL:HG13	1.80	0.63
3:K:152:MET:O	3:K:155:ILE:HG13	1.98	0.63
4:L:166:SER:HB3	4:L:411:VAL:HG22	1.81	0.63
6:N:331:VAL:HB	6:N:343:CYS:HB3	1.80	0.63
7:O:407:ALA:HB1	7:O:487:ASN:HB2	1.81	0.63
2:B:146:VAL:O	2:B:406:THR:N	2.32	0.63
3:C:122:VAL:HA	3:C:125:ALA:HB3	1.80	0.63
3:C:318:THR:O	3:C:322:ARG:N	2.20	0.63
3:C:491:LYS:HG2	3:C:496:TRP:CZ2	2.33	0.63
4:D:93:GLU:O	4:D:97:ALA:N	2.28	0.63
7:G:487:ASN:HB3	7:G:492:VAL:HB	1.81	0.63
8:H:186:ALA:HA	8:H:217:VAL:HG11	1.80	0.63
1:I:42:ASP:HB3	1:I:54:ILE:HG22	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:217:ASN:HA	1:I:361:LEU:HG	1.79	0.63
3:K:145:ASP:H	3:K:151:MET:HG2	1.63	0.63
14:6:57:PHE:HE1	14:6:66:LYS:HD2	1.63	0.63
1:A:328:LEU:HD23	1:A:331:LEU:HD12	1.80	0.62
3:C:180:VAL:HG21	3:C:395:MET:HB2	1.81	0.62
3:C:459:THR:O	3:C:463:LEU:N	2.24	0.62
3:K:368:ASP:O	3:K:370:LYS:NZ	2.31	0.62
5:M:243:VAL:HG21	5:M:299:LEU:HB2	1.81	0.62
1:A:83:ASP:HA	1:A:90:THR:HG22	1.81	0.62
2:B:20:ARG:NH1	5:E:47:THR:OG1	2.31	0.62
5:E:200:GLU:O	5:E:201:ARG:HG2	1.98	0.62
6:F:278:LYS:HB2	6:F:310:ILE:HD11	1.80	0.62
8:H:322:ARG:HG3	8:H:323:ARG:N	2.13	0.62
8:H:414:ALA:HA	8:H:477:ASN:HB2	1.80	0.62
2:J:16:ALA:HB1	2:J:521:ILE:HG23	1.80	0.62
5:M:247:LYS:HA	5:M:353:LEU:HD13	1.81	0.62
5:M:438:ASP:HB2	5:M:449:ARG:HH11	1.62	0.62
7:O:194:MET:O	7:O:370:CYS:N	2.32	0.62
3:C:39:THR:OG1	6:F:519:ASP:OD2	2.16	0.62
4:D:229:LEU:HD13	4:D:325:ILE:HG12	1.80	0.62
6:F:150:ASP:HB3	6:F:493:GLY:O	1.99	0.62
7:G:226:GLU:OE2	7:G:357:ARG:NH2	2.31	0.62
1:I:26:ALA:O	1:I:30:ASN:N	2.30	0.62
1:I:36:LEU:O	1:I:455:ASN:ND2	2.29	0.62
1:I:146:ASP:HB2	1:I:150:ASN:H	1.63	0.62
5:M:61:MET:N	5:M:69:THR:O	2.32	0.62
6:N:173:VAL:HA	6:N:176:ILE:HG13	1.82	0.62
11:3:165:LEU:HA	11:3:168:GLN:HG2	1.80	0.62
1:A:477:ASN:OD1	1:A:484:LYS:HB2	1.98	0.62
2:B:109:LEU:HD21	2:B:439:TYR:HA	1.81	0.62
2:B:375:LEU:HB3	2:B:383:LEU:HD11	1.79	0.62
3:C:196:LYS:HB2	3:C:399:ARG:HD2	1.82	0.62
5:E:123:LEU:HD23	5:E:126:ARG:HD3	1.80	0.62
7:G:315:PRO:HB2	7:G:318:ASP:HB2	1.82	0.62
8:H:153:ASN:H	8:H:159:GLU:HG3	1.64	0.62
1:I:471:HIS:NE2	1:I:486:ILE:HA	2.15	0.62
2:J:43:LEU:HD21	2:J:446:LEU:HD11	1.81	0.62
4:L:41:ALA:HB2	4:L:87:ALA:HB1	1.80	0.62
4:L:249:ILE:HD13	4:L:298:LEU:HD13	1.81	0.62
4:L:296:ASN:HA	4:L:322:ILE:HG12	1.81	0.62
6:N:278:LYS:HD2	6:N:310:ILE:HG13	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:143:LEU:HD13	8:P:505:TYR:HA	1.81	0.62
1:A:234:ILE:O	1:A:346:GLY:N	2.33	0.62
2:B:138:ARG:HH22	2:B:505:LEU:HA	1.64	0.62
2:B:354:ILE:HB	2:B:376:ARG:HH21	1.63	0.62
2:B:516:ARG:NH2	5:E:54:PRO:O	2.32	0.62
3:C:110:GLU:O	3:C:114:GLU:N	2.24	0.62
3:C:394:ALA:O	3:C:398:CYS:N	2.20	0.62
3:C:403:LEU:HD23	3:C:500:ALA:HB1	1.82	0.62
4:D:78:LEU:HB3	4:D:92:VAL:HG12	1.80	0.62
4:D:276:LEU:O	4:D:280:ARG:N	2.23	0.62
4:D:395:LYS:HA	4:D:398:ILE:HD12	1.81	0.62
5:E:55:ASN:HD21	5:E:462:LEU:HD21	1.65	0.62
5:E:427:ILE:HA	5:E:430:ALA:HB3	1.81	0.62
7:G:287:LYS:HG2	7:G:308:MET:HG2	1.80	0.62
8:H:70:ALA:O	8:H:74:ARG:N	2.31	0.62
3:K:421:ALA:HA	3:K:424:GLU:HG2	1.82	0.62
5:M:179:ASN:OD1	5:M:180:SER:N	2.30	0.62
6:N:89:GLY:O	6:N:159:LYS:NZ	2.33	0.62
6:N:233:CYS:HB3	6:N:336:PHE:CE1	2.33	0.62
6:N:445:LEU:HD13	6:N:463:LEU:HD21	1.79	0.62
14:6:79:ARG:O	14:6:83:ILE:N	2.24	0.62
1:A:264:ARG:HE	3:C:277:GLN:HE22	1.47	0.62
1:A:377:LEU:HB3	1:A:384:MET:HE1	1.82	0.62
2:B:149:GLY:H	2:B:154:LYS:HB3	1.63	0.62
2:B:497:PHE:CE2	2:B:501:ARG:HD3	2.33	0.62
5:E:206:PHE:O	5:E:209:ILE:N	2.20	0.62
5:E:441:PRO:O	5:E:442:THR:HG22	1.99	0.62
7:G:432:GLN:NE2	1:I:468:ARG:HH11	1.98	0.62
8:H:99:ASP:OD2	8:H:170:SER:HB2	2.00	0.62
8:H:288:ALA:HB2	8:H:341:LEU:HD11	1.81	0.62
8:P:281:LYS:O	8:P:285:ASP:N	2.29	0.62
1:A:103:ASN:ND2	1:A:440:GLU:OE1	2.33	0.62
5:E:34:LEU:HD21	5:E:121:GLU:HG3	1.82	0.62
5:E:59:LYS:HD2	5:E:77:ILE:HG21	1.82	0.62
5:E:423:GLY:H	5:E:501:MET:HE1	1.63	0.62
1:I:398:VAL:HG21	1:I:502:GLY:HA2	1.81	0.62
3:K:463:LEU:HA	3:K:466:LEU:HB2	1.82	0.62
4:L:287:VAL:HA	4:L:290:ILE:HD12	1.81	0.62
4:L:463:SER:HB3	4:L:477:VAL:HG13	1.82	0.62
6:N:194:MET:O	6:N:376:ILE:N	2.27	0.62
6:N:277:LEU:HD22	6:N:338:ASP:HA	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:408:VAL:HG12	1:A:506:PRO:HA	1.82	0.62
2:B:426:ASN:OD1	2:J:466:ARG:NH2	2.32	0.62
3:C:265:THR:OG1	9:I:97:LYS:HA	1.98	0.62
4:D:38:ILE:HG23	4:D:117:LEU:HD13	1.80	0.62
5:E:255:PHE:HD2	5:E:321:ALA:HB2	1.63	0.62
6:F:109:TYR:CE2	6:F:439:ALA:HB2	2.34	0.62
6:F:274:ILE:HD13	6:F:305:LEU:HD21	1.81	0.62
7:G:282:HIS:HB3	7:G:306:ARG:HE	1.64	0.62
8:H:135:ALA:O	8:H:139:ALA:N	2.25	0.62
1:I:299:TYR:OH	3:K:331:ILE:N	2.30	0.62
2:J:76:VAL:HG11	2:J:85:VAL:HG11	1.80	0.62
2:J:224:ILE:HG21	2:J:230:LYS:HA	1.82	0.62
3:K:50:LEU:HB2	3:K:66:ILE:HG23	1.82	0.62
4:L:253:LEU:HD22	4:L:348:ILE:HG21	1.80	0.62
10:2:47:LEU:HD22	10:2:101:ILE:HB	1.80	0.62
2:B:396:VAL:O	2:B:400:THR:N	2.29	0.62
3:C:185:PHE:HD1	3:C:186:GLU:HG2	1.63	0.62
3:C:328:GLY:HA3	3:C:367:LYS:O	2.00	0.62
5:E:35:LYS:O	5:E:39:MET:HG2	1.99	0.62
2:J:179:PHE:O	2:J:183:ALA:N	2.30	0.62
7:O:467:ARG:HH21	7:O:475:TYR:HB3	1.64	0.62
5:E:393:MET:O	5:E:397:GLU:N	2.28	0.62
7:G:140:ALA:HB1	7:G:404:SER:HB3	1.82	0.62
7:G:171:GLN:HA	7:G:174:PHE:HB3	1.81	0.62
8:H:279:GLN:HA	8:H:338:PRO:HA	1.80	0.62
2:J:155:PHE:HZ	2:J:401:VAL:HG22	1.65	0.62
4:L:484:HIS:CD2	4:L:492:GLY:HA3	2.35	0.62
8:P:26:GLU:HA	8:P:30:TYR:HD2	1.65	0.62
8:P:401:VAL:O	8:P:405:ASP:N	2.26	0.62
1:A:235:ALA:O	1:A:286:ILE:HA	2.00	0.61
2:B:418:ALA:O	2:B:422:THR:N	2.26	0.61
3:C:75:PRO:HA	3:C:78:LYS:HB3	1.80	0.61
6:F:40:PRO:HG3	6:F:157:ARG:HB3	1.82	0.61
6:F:463:LEU:O	6:F:467:GLN:N	2.20	0.61
7:G:132:ALA:O	7:G:136:ILE:N	2.19	0.61
2:J:23:THR:O	2:J:27:THR:N	2.22	0.61
2:J:38:LEU:O	2:J:41:SER:OG	2.18	0.61
2:J:465:LEU:HD22	2:J:485:ILE:HG12	1.82	0.61
5:M:352:LYS:NZ	7:O:305:ASP:OD1	2.29	0.61
6:N:39:GLY:HA3	6:N:451:LEU:HD21	1.82	0.61
8:P:292:VAL:HG21	8:P:324:LEU:HD13	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:1:64:VAL:HG23	13:5:49:CYS:HA	1.81	0.61
11:3:144:LEU:HD22	13:5:70:MET:SD	2.40	0.61
1:A:208:SER:HB3	1:A:378:ARG:H	1.65	0.61
1:A:210:LEU:HA	1:A:375:ILE:HA	1.82	0.61
3:C:57:ILE:HG21	6:F:76:LEU:HD21	1.82	0.61
3:C:249:LYS:HD3	3:C:267:ILE:HG23	1.82	0.61
3:C:265:THR:HA	9:1:100:TYR:HD2	1.63	0.61
4:D:245:LYS:HB2	4:D:296:ASN:H	1.64	0.61
5:E:131:ILE:HG23	7:G:43:ARG:HG3	1.82	0.61
6:F:44:MET:H	8:H:520:ARG:HD3	1.64	0.61
6:F:237:LEU:HB2	6:F:297:ILE:HG12	1.81	0.61
6:F:396:ARG:O	6:F:400:ASN:ND2	2.33	0.61
7:G:103:GLU:O	7:G:107:GLN:HG2	1.99	0.61
7:G:142:THR:HA	7:G:404:SER:HA	1.81	0.61
7:G:402:ASN:HD22	7:G:497:MET:HB2	1.64	0.61
11:3:164:PHE:O	11:3:168:GLN:N	2.30	0.61
1:A:118:ILE:HD12	1:A:121:TYR:HB2	1.82	0.61
3:C:462:LEU:HD22	3:C:487:LEU:HD13	1.83	0.61
4:D:465:LEU:HA	4:D:468:ASN:HB2	1.81	0.61
5:E:243:VAL:HG21	5:E:360:GLN:HA	1.82	0.61
6:F:161:HIS:HB2	6:F:164:LEU:H	1.65	0.61
7:G:186:LEU:HD13	7:G:195:ILE:HG12	1.82	0.61
7:G:414:MET:HB3	7:G:465:ARG:HD3	1.81	0.61
3:K:285:LEU:HD13	3:K:335:PRO:HB2	1.80	0.61
5:M:464:GLU:HG3	5:M:470:PRO:HG2	1.82	0.61
5:E:30:GLY:HA2	7:G:45:MET:HG3	1.81	0.61
5:E:256:GLU:HG3	5:E:285:PHE:CE1	2.35	0.61
5:E:357:GLY:H	5:E:377:CYS:H	1.48	0.61
5:E:364:PHE:HE1	5:E:388:ARG:HG2	1.65	0.61
8:H:280:VAL:HG13	8:H:308:TYR:HD2	1.64	0.61
3:K:416:MET:SD	3:K:466:LEU:HB3	2.40	0.61
3:K:478:TRP:HA	3:K:489:ASP:HA	1.81	0.61
4:L:376:ILE:HG22	4:L:379:CYS:HB3	1.81	0.61
7:O:104:PHE:O	7:O:108:VAL:N	2.27	0.61
7:O:144:LYS:HZ3	7:O:400:ILE:HG12	1.65	0.61
1:A:198:LEU:HB3	1:A:376:ILE:HG12	1.82	0.61
2:B:220:LEU:HD13	2:B:312:ILE:HG21	1.82	0.61
3:C:112:PHE:O	3:C:116:GLN:N	2.31	0.61
7:G:207:ASP:O	7:G:375:ARG:HB2	2.00	0.61
8:H:283:ILE:HD11	8:H:339:PRO:HG2	1.82	0.61
2:J:469:HIS:HA	2:J:473:ASN:HB2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:370:LYS:HG3	3:K:372:CYS:H	1.63	0.61
4:L:121:THR:O	4:L:125:GLN:N	2.28	0.61
4:L:168:THR:O	4:L:172:ASN:N	2.30	0.61
6:N:31:GLN:HE22	6:N:100:GLY:H	1.47	0.61
8:P:52:MET:O	8:P:54:LYS:NZ	2.32	0.61
12:4:45:LYS:O	12:4:49:ASN:N	2.27	0.61
2:B:140:ALA:O	2:B:144:SER:N	2.27	0.61
2:B:154:LYS:O	2:B:158:ASP:N	2.24	0.61
5:E:255:PHE:CD2	5:E:321:ALA:HB2	2.35	0.61
5:E:300:ALA:HB3	5:E:321:ALA:HA	1.81	0.61
6:F:225:VAL:HB	6:F:350:VAL:HB	1.81	0.61
7:G:116:LEU:HD12	7:G:430:LYS:HD3	1.82	0.61
1:I:196:ASN:ND2	1:I:214:TYR:HB3	2.16	0.61
2:J:428:THR:HB	2:J:429:PRO:HD3	1.83	0.61
5:M:335:ILE:HD12	5:M:381:ARG:HH11	1.66	0.61
6:N:203:ASP:HB3	6:N:377:LYS:HB2	1.83	0.61
6:N:362:PHE:HB3	6:N:364:GLU:HG3	1.83	0.61
7:O:33:ALA:HB2	7:O:79:LEU:HD13	1.83	0.61
14:6:57:PHE:HA	14:6:67:GLN:HB2	1.83	0.61
1:A:313:LYS:NZ	1:A:329:SER:OG	2.29	0.61
1:A:489:ASP:O	1:A:493:GLY:N	2.34	0.61
2:B:351:GLU:HA	2:B:360:ILE:HA	1.82	0.61
3:C:430:THR:HA	3:C:434:GLN:OE1	2.01	0.61
5:E:428:SER:HA	5:E:481:GLN:NE2	2.16	0.61
5:E:498:THR:O	5:E:504:GLN:NE2	2.34	0.61
6:F:270:ARG:HD2	6:F:336:PHE:HB2	1.82	0.61
6:F:478:GLY:N	6:F:487:MET:O	2.33	0.61
8:H:91:HIS:O	8:H:95:GLN:N	2.27	0.61
8:H:228:GLU:O	8:H:312:LEU:N	2.33	0.61
8:H:242:TYR:OH	8:H:340:VAL:O	2.18	0.61
1:I:349:GLU:N	1:I:368:LYS:HZ3	1.99	0.61
6:N:46:MET:HG3	6:N:54:ILE:HG23	1.83	0.61
6:N:140:SER:HA	6:N:406:CYS:HA	1.83	0.61
6:N:427:PRO:HG2	6:N:434:GLN:HA	1.82	0.61
7:O:167:LEU:HB2	7:O:384:GLU:HG3	1.83	0.61
2:B:68:ALA:O	2:B:72:LYS:NZ	2.32	0.61
4:D:225:GLU:OE1	4:D:384:LYS:NZ	2.33	0.61
4:D:313:ALA:O	4:D:317:LEU:N	2.29	0.61
5:E:341:ILE:O	7:G:301:GLN:NE2	2.34	0.61
6:F:130:ALA:O	6:F:134:LEU:N	2.34	0.61
6:F:208:ARG:HA	6:F:372:VAL:HG13	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:458:THR:O	7:G:462:ASN:N	2.27	0.61
1:I:1:MET:HG2	1:I:20:GLN:NE2	2.16	0.61
1:I:31:ILE:HA	3:K:16:ARG:NH1	2.16	0.61
3:K:67:LEU:HA	3:K:70:ILE:HG22	1.83	0.61
3:K:299:LEU:HA	3:K:302:HIS:HD2	1.65	0.61
8:P:501:TYR:O	8:P:505:TYR:N	2.29	0.61
11:3:127:LEU:HD11	11:3:143:LEU:HD21	1.83	0.61
4:D:49:ARG:HH22	4:D:114:GLY:N	1.99	0.61
4:D:326:LYS:NZ	4:D:327:ASP:OD1	2.27	0.61
5:E:225:ILE:HG22	5:E:227:GLY:H	1.66	0.61
5:E:359:VAL:HG22	5:E:374:ILE:HG23	1.82	0.61
7:G:319:LEU:HG	7:G:330:ILE:HG22	1.83	0.61
7:G:333:SER:HB2	7:G:336:ALA:HB2	1.83	0.61
1:I:104:ALA:HA	1:I:121:TYR:HE2	1.66	0.61
1:I:410:PRO:HB3	1:I:487:GLY:HA2	1.83	0.61
3:K:230:ARG:HG3	3:K:233:ILE:HD12	1.82	0.61
4:L:140:ALA:HB2	4:L:451:VAL:HG13	1.82	0.61
6:N:78:ALA:HA	6:N:81:ALA:HB3	1.82	0.61
7:O:420:LEU:O	7:O:424:SER:N	2.32	0.61
7:O:457:ALA:O	7:O:461:LEU:N	2.22	0.61
4:D:37:ASN:HA	4:D:85:HIS:HE1	1.65	0.61
5:E:101:GLU:HA	5:E:410:ARG:HH12	1.64	0.61
5:E:161:ASP:OD1	5:E:162:THR:N	2.34	0.61
5:E:436:GLU:HG3	5:E:440:CYS:SG	2.41	0.61
6:F:67:MET:HG2	8:H:523:GLN:HE22	1.64	0.61
6:F:412:GLY:HA3	6:F:448:PRO:HB3	1.83	0.61
8:H:240:ALA:O	8:H:292:VAL:N	2.32	0.61
1:I:452:LEU:HD22	1:I:490:LEU:HD13	1.83	0.61
3:K:68:ARG:HH11	3:K:81:ILE:HG23	1.66	0.61
5:M:34:LEU:HD22	5:M:124:LEU:HD23	1.82	0.61
5:M:161:ASP:O	5:M:165:LEU:N	2.27	0.61
5:M:166:ILE:O	5:M:170:LYS:N	2.34	0.61
6:N:381:LYS:HA	6:N:384:LEU:HB3	1.82	0.61
7:O:244:LEU:HD21	7:O:277:LYS:HG2	1.83	0.61
1:A:218:CYS:HB2	1:A:311:VAL:HG22	1.83	0.60
2:B:25:ARG:NH2	2:B:517:VAL:O	2.33	0.60
2:B:477:GLY:N	2:B:486:GLY:O	2.22	0.60
3:C:16:ARG:HG2	3:C:524:SER:H	1.65	0.60
3:C:75:PRO:O	3:C:79:SER:N	2.29	0.60
4:D:395:LYS:NZ	4:D:399:GLU:OE2	2.29	0.60
7:G:155:LEU:O	7:G:159:ALA:N	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:186:LEU:HD12	7:G:370:CYS:N	2.12	0.60
1:I:161:ILE:HB	1:I:387:GLU:HG3	1.83	0.60
2:J:50:LYS:HG2	2:J:70:ILE:HG12	1.83	0.60
3:K:156:ILE:HD11	3:K:394:ALA:HB1	1.83	0.60
10:2:81:ARG:NH2	10:2:85:GLU:HB3	2.16	0.60
1:A:462:ASP:O	1:A:466:LYS:HG2	2.01	0.60
3:C:351:GLU:OE1	3:C:353:LYS:NZ	2.34	0.60
7:G:232:TYR:O	7:G:348:PHE:N	2.32	0.60
6:N:451:LEU:HD13	6:N:481:LEU:HA	1.83	0.60
7:O:102:ALA:HA	7:O:105:LEU:HD13	1.82	0.60
7:O:517:ASP:H	8:P:54:LYS:HE3	1.65	0.60
8:P:163:LEU:HA	8:P:166:THR:HG22	1.83	0.60
8:P:202:ILE:HD13	8:P:396:VAL:HG22	1.83	0.60
8:P:355:VAL:HG12	8:P:376:VAL:HB	1.81	0.60
7:G:374:LEU:HD13	7:G:386:GLU:HB3	1.84	0.60
7:G:497:MET:HG3	7:G:501:ASN:HD21	1.65	0.60
8:H:144:PRO:HA	8:H:147:VAL:HG23	1.83	0.60
1:I:533:LEU:HD21	4:L:80:GLN:HG2	1.83	0.60
2:J:475:THR:O	2:J:488:MET:N	2.26	0.60
3:K:49:MET:HE1	6:N:76:LEU:HD11	1.83	0.60
5:M:223:LYS:HD2	5:M:364:PHE:HD1	1.66	0.60
5:M:496:LYS:HG3	5:M:498:THR:H	1.66	0.60
7:O:197:ILE:HG13	7:O:372:PHE:HB2	1.84	0.60
7:O:444:ILE:O	7:O:448:GLN:N	2.27	0.60
14:6:19:LEU:HD23	14:6:97:LEU:HA	1.83	0.60
1:A:190:TYR:OH	1:A:404:GLU:HB2	2.01	0.60
1:A:327:ILE:HD13	1:A:346:GLY:N	2.16	0.60
2:B:39:VAL:O	2:B:100:THR:OG1	2.20	0.60
3:C:230:ARG:NE	3:C:288:ASP:OD2	2.35	0.60
4:D:249:ILE:O	4:D:306:ARG:NH2	2.33	0.60
5:E:536:PRO:HG2	5:E:538:GLU:HB2	1.83	0.60
6:F:102:LEU:HB2	6:F:443:ALA:HB2	1.82	0.60
1:I:118:ILE:HD12	1:I:522:ILE:HG13	1.83	0.60
1:I:260:LEU:HA	1:I:263:ILE:HG12	1.82	0.60
6:N:107:ASP:O	6:N:111:SER:N	2.33	0.60
6:N:433:ALA:O	6:N:437:VAL:N	2.22	0.60
7:O:520:ILE:O	8:P:57:ILE:N	2.31	0.60
8:P:206:LYS:HG2	8:P:377:LEU:HB2	1.83	0.60
11:3:72:ARG:HE	12:4:35:GLU:HG2	1.66	0.60
1:A:93:VAL:HA	1:A:96:ILE:HD12	1.84	0.60
1:A:196:ASN:HA	1:A:318:ARG:HD3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:236:CYS:HB3	1:A:316:LEU:HD11	1.83	0.60
2:B:246:THR:OG1	2:B:248:LYS:NZ	2.35	0.60
2:B:292:ASN:ND2	2:B:295:LEU:O	2.33	0.60
3:C:185:PHE:CD1	3:C:186:GLU:HG2	2.36	0.60
3:C:197:LYS:HG2	3:C:200:ARG:HH12	1.66	0.60
4:D:229:LEU:HB2	4:D:374:LEU:HB3	1.84	0.60
4:D:232:LYS:HA	4:D:325:ILE:HG22	1.83	0.60
8:H:242:TYR:HA	8:H:333:LEU:H	1.65	0.60
1:I:449:PRO:HA	1:I:452:LEU:HD12	1.83	0.60
3:K:183:VAL:HG11	3:K:198:TYR:HB3	1.82	0.60
4:L:286:LEU:HB3	4:L:348:ILE:HG21	1.84	0.60
5:M:282:LYS:NZ	5:M:286:GLU:OE2	2.27	0.60
5:M:410:ARG:HA	5:M:413:ILE:HG22	1.83	0.60
8:P:477:ASN:N	8:P:490:LYS:O	2.32	0.60
11:3:104:ARG:HH21	14:6:57:PHE:HZ	1.49	0.60
1:A:470:PHE:HE2	1:A:495:PRO:HG3	1.66	0.60
2:B:434:VAL:HG22	2:J:459:ALA:HB1	1.84	0.60
3:C:22:VAL:O	3:C:26:ASN:N	2.32	0.60
4:D:153:ARG:HH12	4:D:423:ALA:H	1.48	0.60
4:D:482:ASN:O	4:D:486:GLN:HG2	2.01	0.60
5:E:235:SER:H	5:E:315:LEU:HD11	1.66	0.60
5:E:261:LYS:HG3	5:E:304:TRP:HD1	1.67	0.60
8:H:26:GLU:O	8:H:30:TYR:N	2.35	0.60
1:I:257:PRO:HG3	3:K:278:LEU:HD23	1.83	0.60
2:J:68:ALA:HA	2:J:71:LEU:HB2	1.84	0.60
2:J:512:GLU:HA	2:J:515:LEU:HB3	1.84	0.60
5:M:47:THR:HG21	5:M:81:MET:HE1	1.83	0.60
6:N:31:GLN:HG3	6:N:96:VAL:HG12	1.83	0.60
7:O:150:GLU:HB3	7:O:152:ARG:HG2	1.82	0.60
8:P:405:ASP:HB2	8:P:407:ARG:HE	1.67	0.60
10:2:30:PHE:HD1	11:3:176:MET:HG2	1.67	0.60
4:D:250:GLN:C	4:D:306:ARG:HH12	2.03	0.60
4:D:366:ASN:HD22	4:D:372:LYS:HB2	1.66	0.60
5:E:104:ASP:OD1	5:E:404:ASP:HB3	2.01	0.60
6:F:145:ARG:HA	6:F:148:LEU:HB2	1.84	0.60
6:F:303:ASP:O	6:F:306:SER:OG	2.18	0.60
6:F:408:VAL:HG11	6:F:501:LYS:NZ	2.17	0.60
2:J:399:GLN:O	2:J:403:ASP:N	2.32	0.60
2:J:477:GLY:N	2:J:486:GLY:O	2.35	0.60
4:L:157:LEU:HD22	4:L:416:VAL:HA	1.84	0.60
5:M:331:GLU:HA	7:O:223:ALA:HB2	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:477:VAL:HA	5:M:480:ARG:HB2	1.84	0.60
7:O:137:LYS:HA	7:O:140:ALA:HB2	1.82	0.60
1:A:232:ALA:HB3	1:A:348:ALA:HB3	1.84	0.60
3:C:407:LEU:HB2	3:C:496:TRP:HB3	1.83	0.60
4:D:478:THR:HG23	4:D:481:ARG:HH22	1.67	0.60
5:E:177:VAL:HG13	5:E:178:VAL:H	1.66	0.60
5:E:250:ILE:HG22	5:E:341:ILE:HG23	1.84	0.60
6:F:91:GLY:HA2	6:F:94:SER:HB2	1.84	0.60
7:G:14:ASP:O	7:G:521:LYS:N	2.31	0.60
8:H:249:MET:HG3	8:H:272:GLU:HA	1.84	0.60
8:H:268:PHE:O	8:H:272:GLU:HB2	2.02	0.60
1:I:209:MET:O	1:I:376:ILE:N	2.26	0.60
3:K:111:HIS:O	3:K:115:GLN:N	2.32	0.60
3:K:248:LYS:NZ	3:K:274:TYR:OH	2.34	0.60
6:N:156:LEU:HD23	6:N:394:GLY:HA3	1.84	0.60
1:A:472:ASN:N	1:A:483:LEU:O	2.34	0.60
2:B:18:GLU:HA	2:B:521:ILE:HA	1.84	0.60
3:C:451:LEU:HB3	3:C:482:GLY:H	1.67	0.60
4:D:283:ILE:HB	4:D:313:ALA:HB2	1.83	0.60
5:E:63:ASP:H	5:E:67:ASP:H	1.50	0.60
6:F:395:LEU:HA	6:F:398:VAL:HG22	1.82	0.60
6:F:470:HIS:CE1	6:F:476:LEU:HA	2.37	0.60
1:I:113:HIS:CD2	1:I:114:PRO:HD2	2.36	0.60
3:K:246:GLU:OE1	3:K:274:TYR:OH	2.20	0.60
3:K:272:GLU:O	3:K:276:GLN:N	2.33	0.60
5:M:105:GLY:HA2	5:M:516:GLN:NE2	2.15	0.60
6:N:182:GLN:NE2	6:N:184:GLU:OE2	2.35	0.60
6:N:237:LEU:HD12	6:N:298:ASP:H	1.66	0.60
8:P:29:VAL:HG12	8:P:119:LEU:HD13	1.84	0.60
8:P:365:HIS:HD2	8:P:370:GLY:H	1.47	0.60
11:3:52:LYS:HD3	11:3:174:VAL:HG11	1.84	0.60
11:3:63:MET:O	11:3:67:LEU:HG	2.02	0.60
14:6:15:LYS:HE2	14:6:108:LEU:HD13	1.84	0.60
4:D:482:ASN:N	5:M:445:GLN:HE22	2.00	0.60
5:E:442:THR:HG23	5:E:443:LEU:H	1.66	0.60
6:F:330:GLY:HA2	6:F:345:GLY:HA3	1.82	0.60
7:G:232:TYR:CZ	7:G:287:LYS:HB3	2.37	0.60
7:G:462:ASN:O	7:G:466:ALA:N	2.29	0.60
8:H:131:GLY:O	8:H:438:ILE:HG13	2.02	0.60
1:I:242:GLN:HA	1:I:292:ILE:HG22	1.84	0.60
3:K:113:LEU:HD13	3:K:122:VAL:HG22	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:481:ASN:HB3	3:K:484:THR:HB	1.83	0.60
8:P:401:VAL:HG22	8:P:404:ARG:HH21	1.67	0.60
12:4:19:ASP:HB3	12:4:24:ASN:HD21	1.66	0.60
2:B:24:ALA:O	2:B:28:SER:N	2.26	0.59
2:B:290:PHE:CE2	2:B:292:ASN:HB2	2.37	0.59
2:B:463:ALA:HA	2:B:466:ARG:HB3	1.84	0.59
3:C:399:ARG:O	3:C:403:LEU:N	2.26	0.59
4:D:49:ARG:HG2	4:D:111:ILE:HG23	1.83	0.59
4:D:156:GLU:H	4:D:162:THR:HG21	1.67	0.59
4:D:248:LEU:HD23	4:D:345:VAL:H	1.67	0.59
6:F:434:GLN:HA	6:F:437:VAL:HB	1.84	0.59
7:G:300:THR:HA	7:G:303:PHE:CD2	2.36	0.59
7:G:393:ILE:HA	7:G:396:VAL:HG22	1.84	0.59
7:G:419:TYR:O	7:G:423:TYR:N	2.31	0.59
8:H:58:ASN:H	8:H:62:LYS:H	1.49	0.59
2:J:189:ARG:NH1	2:J:368:GLY:O	2.35	0.59
3:K:230:ARG:HD3	3:K:288:ASP:HB2	1.83	0.59
4:L:85:HIS:CD2	4:L:86:PRO:HD2	2.37	0.59
5:M:179:ASN:O	5:M:183:ARG:NH1	2.35	0.59
7:O:65:ILE:HA	7:O:68:LEU:HB2	1.84	0.59
11:3:71:LYS:HG3	11:3:74:LEU:HD13	1.85	0.59
14:6:36:GLN:O	14:6:40:ASN:N	2.34	0.59
3:C:285:LEU:HB2	3:C:340:GLU:HB2	1.83	0.59
3:C:346:GLY:HA3	3:C:367:LYS:HG3	1.84	0.59
4:D:306:ARG:HG3	4:D:308:ALA:N	2.15	0.59
5:E:391:ASN:HB2	5:E:394:ILE:HG12	1.84	0.59
5:E:530:ILE:HG13	5:E:532:ASP:H	1.67	0.59
6:F:114:LEU:HD21	6:F:435:LEU:HD13	1.83	0.59
6:F:446:ILE:HA	6:F:449:LYS:HE3	1.83	0.59
7:G:32:ILE:HD13	7:G:76:ALA:HB1	1.84	0.59
8:H:86:ILE:HG12	8:H:514:ALA:HB1	1.83	0.59
3:K:434:GLN:HG2	3:K:438:ARG:HH12	1.67	0.59
4:L:451:VAL:O	4:L:455:ALA:N	2.34	0.59
5:M:84:ASP:HB3	5:M:539:SER:O	2.02	0.59
6:N:235:VAL:HG21	6:N:244:VAL:HA	1.83	0.59
7:O:196:GLY:HA3	7:O:321:ARG:HH22	1.66	0.59
8:P:328:VAL:HG23	8:P:330:ALA:H	1.67	0.59
11:3:114:LYS:O	13:5:78:ASP:HB2	2.01	0.59
3:C:319:ASP:HA	3:C:322:ARG:HD3	1.84	0.59
5:E:210:LYS:HB2	5:E:384:THR:HG22	1.83	0.59
6:F:326:LEU:O	6:F:368:ASN:ND2	2.28	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:124:ALA:HB3	7:G:434:LEU:HD23	1.84	0.59
7:G:278:LEU:HD21	7:G:302:TYR:CD2	2.36	0.59
7:G:310:CYS:SG	7:G:311:ALA:N	2.75	0.59
1:I:121:TYR:CD1	1:I:441:PHE:HB2	2.37	0.59
3:K:413:ALA:O	3:K:417:ALA:N	2.32	0.59
3:K:463:LEU:HA	3:K:466:LEU:HD12	1.84	0.59
5:M:165:LEU:HD22	5:M:409:ILE:HG23	1.84	0.59
5:M:250:ILE:HG12	5:M:301:ILE:HD11	1.85	0.59
8:P:228:GLU:HG3	8:P:314:ARG:HH21	1.67	0.59
14:6:27:MET:SD	14:6:30:ARG:NH1	2.75	0.59
2:B:76:VAL:O	2:B:82:LYS:NZ	2.29	0.59
3:C:34:ALA:HB1	3:C:100:ILE:HA	1.84	0.59
4:D:157:LEU:HD11	4:D:419:ARG:HA	1.85	0.59
4:D:301:GLN:HE22	4:D:306:ARG:NH2	1.99	0.59
4:D:345:VAL:HG22	4:D:355:MET:HB3	1.84	0.59
5:E:303:GLN:HA	5:E:325:VAL:HB	1.84	0.59
6:F:229:TYR:HE2	6:F:287:LYS:HB3	1.67	0.59
7:G:467:ARG:O	7:G:472:GLY:N	2.33	0.59
7:G:486:ASP:HB3	7:G:489:GLU:OE1	2.02	0.59
8:H:427:GLY:O	8:H:435:GLN:HB2	2.02	0.59
3:K:107:SER:O	3:K:111:HIS:ND1	2.32	0.59
4:L:122:LYS:O	4:L:126:LYS:N	2.35	0.59
4:L:407:ASP:HA	4:L:410:CYS:HB2	1.84	0.59
5:M:143:VAL:O	5:M:147:HIS:N	2.32	0.59
7:O:500:ILE:HA	7:O:503:LEU:HD12	1.84	0.59
8:P:132:TYR:HD1	8:P:441:PHE:HD1	1.50	0.59
8:P:491:ASP:O	8:P:495:ALA:N	2.34	0.59
10:2:60:THR:HB	11:3:127:LEU:HD22	1.84	0.59
12:4:33:ILE:HG12	12:4:108:ILE:HG23	1.84	0.59
1:A:401:ARG:HD3	1:A:506:PRO:HG2	1.83	0.59
2:B:424:LEU:O	2:B:428:THR:OG1	2.16	0.59
3:C:205:PRO:HD2	3:C:360:PHE:HZ	1.68	0.59
3:C:365:ASP:OD1	3:C:367:LYS:NZ	2.35	0.59
5:E:94:LEU:HD22	5:E:523:MET:HB3	1.85	0.59
5:E:163:GLU:O	5:E:167:GLN:N	2.27	0.59
6:F:192:GLU:HB2	6:F:323:ARG:NH1	2.18	0.59
8:H:203:ARG:HE	8:H:323:ARG:HD2	1.67	0.59
8:H:230:ASP:HB2	8:H:309:ASN:HA	1.84	0.59
8:H:244:CYS:H	8:H:334:PRO:HA	1.67	0.59
8:H:273:GLU:O	8:H:277:ASP:N	2.32	0.59
8:H:503:GLY:O	8:H:507:ALA:N	2.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:469:HIS:HA	2:J:473:ASN:H	1.66	0.59
3:K:155:ILE:HG22	3:K:496:TRP:CD2	2.37	0.59
4:L:430:ILE:HG23	4:L:459:GLU:HG2	1.84	0.59
5:M:155:VAL:HA	5:M:416:ASN:HB3	1.84	0.59
6:N:278:LYS:HE3	6:N:285:SER:HA	1.84	0.59
8:P:291:VAL:HB	8:P:312:LEU:HA	1.84	0.59
1:A:227:LYS:HG3	1:A:353:GLN:HB3	1.85	0.59
2:B:29:PHE:CE2	2:B:114:GLU:HG2	2.38	0.59
3:C:63:GLY:O	3:C:67:LEU:N	2.30	0.59
4:D:204:ASP:HA	4:D:413:ARG:HE	1.67	0.59
6:F:173:VAL:HA	6:F:176:ILE:HG12	1.82	0.59
6:F:303:ASP:OD2	6:F:307:LYS:NZ	2.35	0.59
7:G:339:ALA:HA	7:G:342:LEU:HD12	1.83	0.59
1:I:44:MET:H	3:K:519:ILE:HG22	1.68	0.59
2:J:167:LEU:HD13	2:J:176:LYS:HA	1.85	0.59
3:K:473:GLU:OE1	3:K:478:TRP:NE1	2.33	0.59
4:L:483:ARG:HB3	4:L:500:ILE:HD11	1.84	0.59
5:M:342:VAL:HG11	5:M:348:LEU:HD23	1.85	0.59
6:N:14:ALA:HB3	6:N:521:ILE:HG22	1.83	0.59
6:N:125:ALA:O	6:N:129:LYS:N	2.28	0.59
6:N:231:LEU:HB3	6:N:291:VAL:HG12	1.83	0.59
7:O:82:ILE:HG13	7:O:509:ALA:HB2	1.85	0.59
13:5:83:LEU:HA	13:5:93:GLU:HA	1.85	0.59
14:6:89:ARG:HG3	14:6:90:TYR:N	2.17	0.59
1:A:411:GLY:HA2	1:A:503:VAL:HB	1.85	0.59
1:A:489:ASP:HB3	1:A:493:GLY:H	1.68	0.59
2:B:162:ILE:HG21	2:B:396:VAL:HG11	1.84	0.59
2:B:445:MET:O	2:B:448:THR:OG1	2.19	0.59
2:B:521:ILE:O	5:E:62:VAL:N	2.30	0.59
3:C:417:ALA:HA	3:C:470:HIS:HD2	1.67	0.59
3:C:451:LEU:HD13	3:C:481:ASN:HA	1.83	0.59
4:D:288:LYS:O	4:D:292:LYS:HG3	2.03	0.59
8:H:179:LEU:HD23	8:H:182:LEU:HD12	1.85	0.59
8:H:491:ASP:HB2	8:H:495:ALA:HB2	1.83	0.59
1:I:397:CYS:O	1:I:401:ARG:N	2.28	0.59
6:N:294:GLN:HG2	6:N:316:ALA:HB3	1.84	0.59
8:P:197:PHE:CD2	8:P:400:LYS:HB2	2.36	0.59
9:1:74:GLU:HA	9:1:77:HIS:HD2	1.67	0.59
12:4:34:THR:O	12:4:38:GLU:HG3	2.03	0.59
13:5:83:LEU:HG	13:5:84:ILE:N	2.17	0.59
1:A:137:ILE:HG13	1:A:139:ASN:H	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:208:SER:CB	1:A:378:ARG:H	2.15	0.59
1:A:245:LYS:HZ2	3:C:274:TYR:HD1	1.50	0.59
1:A:471:HIS:HB2	7:O:425:ARG:HH21	1.68	0.59
2:B:451:ALA:HB2	2:B:478:LEU:HD11	1.85	0.59
4:D:61:ILE:N	4:D:69:THR:O	2.34	0.59
4:D:220:ASP:HB3	4:D:391:ARG:HD2	1.85	0.59
4:D:224:VAL:N	4:D:387:THR:O	2.31	0.59
4:D:496:ARG:HE	4:D:506:GLU:HG3	1.67	0.59
5:E:187:GLU:N	5:E:187:GLU:OE1	2.36	0.59
5:E:252:THR:N	5:E:341:ILE:HG22	2.17	0.59
8:H:45:THR:HG22	8:H:455:ASN:HD21	1.67	0.59
1:I:245:LYS:HD3	1:I:248:LEU:HD11	1.84	0.59
2:J:16:ALA:N	5:M:82:ASP:OD1	2.36	0.59
5:M:251:LEU:HD21	5:M:348:LEU:HD21	1.85	0.59
6:N:161:HIS:CD2	8:P:520:ARG:HH12	2.20	0.59
6:N:210:LEU:O	6:N:363:ILE:N	2.31	0.59
7:O:37:ARG:NH1	7:O:99:LEU:HA	2.17	0.59
1:A:318:ARG:O	1:A:322:ALA:HB3	2.03	0.59
6:F:293:ASN:HB3	6:F:314:ARG:HA	1.85	0.59
7:G:49:ILE:O	7:G:57:THR:N	2.36	0.59
7:G:443:GLU:OE2	7:G:465:ARG:NH1	2.34	0.59
8:H:173:TYR:HB3	8:H:480:LEU:HD23	1.84	0.59
2:J:215:ASP:HB3	2:J:372:THR:HB	1.84	0.59
2:J:522:LYS:HA	5:M:62:VAL:O	2.03	0.59
4:L:101:GLU:O	4:L:413:ARG:NH1	2.24	0.59
4:L:123:LEU:HB3	4:L:128:ILE:HB	1.84	0.59
4:L:147:ILE:HB	4:L:432:LEU:HD13	1.83	0.59
8:P:220:GLY:HA2	8:P:365:HIS:HD1	1.67	0.59
12:4:37:LYS:HA	12:4:40:ILE:HD12	1.83	0.59
1:A:225:MET:SD	1:A:307:ALA:N	2.76	0.59
1:A:230:VAL:HA	1:A:350:GLU:HA	1.84	0.59
3:C:240:LEU:HD11	3:C:323:ILE:HG22	1.84	0.59
6:F:61:ASN:HA	6:F:64:LEU:HD12	1.84	0.59
6:F:496:ASP:OD1	6:F:497:ASN:N	2.36	0.59
2:J:220:LEU:HB3	2:J:360:ILE:HG23	1.85	0.59
3:K:141:SER:CB	3:K:406:GLN:HG2	2.33	0.59
5:M:248:ILE:O	5:M:354:GLY:N	2.36	0.59
6:N:230:ILE:N	6:N:345:GLY:O	2.29	0.59
6:N:432:ARG:O	6:N:436:GLY:N	2.32	0.59
1:A:106:GLU:HA	1:A:109:LYS:HB2	1.85	0.58
1:A:471:HIS:CE1	7:O:425:ARG:HG2	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:436:PRO:O	3:C:440:VAL:N	2.30	0.58
3:C:452:ILE:HD13	3:C:459:THR:HA	1.84	0.58
6:F:418:MET:HB2	6:F:444:LEU:HD13	1.85	0.58
8:H:147:VAL:HA	8:H:409:VAL:HG12	1.85	0.58
8:H:169:MET:HB2	8:H:176:GLU:CD	2.23	0.58
8:H:421:LYS:NZ	8:H:467:LEU:O	2.29	0.58
6:N:426:LYS:CG	6:N:427:PRO:HD3	2.33	0.58
6:N:452:ALA:HB3	6:N:459:LEU:HA	1.84	0.58
7:O:210:LEU:HD11	7:O:370:CYS:HB3	1.85	0.58
8:P:502:LEU:O	8:P:506:TRP:N	2.20	0.58
11:3:81:ILE:HD12	11:3:84:THR:HG21	1.85	0.58
1:A:278:ILE:O	1:A:282:GLY:N	2.36	0.58
1:A:448:ILE:HB	1:A:449:PRO:HD3	1.85	0.58
2:B:440:ALA:HA	2:B:443:LEU:HD12	1.85	0.58
3:C:227:PRO:HG3	3:C:231:ARG:NH1	2.18	0.58
6:F:331:VAL:HB	6:F:333:LEU:HG	1.85	0.58
8:H:68:ASP:HB3	8:H:390:ARG:HH21	1.68	0.58
1:I:411:GLY:H	1:I:504:PHE:HB3	1.68	0.58
1:I:529:ASP:O	1:I:530:LEU:HD12	2.02	0.58
2:J:336:ASP:H	2:J:340:LEU:HD12	1.67	0.58
3:K:179:ALA:O	3:K:183:VAL:HG23	2.03	0.58
5:M:290:GLN:O	5:M:294:GLU:N	2.34	0.58
5:M:396:GLU:O	5:M:400:ARG:HG2	2.03	0.58
7:O:89:GLU:OE1	7:O:501:ASN:HB3	2.03	0.58
7:O:119:GLN:O	7:O:122:ILE:HG12	2.03	0.58
7:O:516:VAL:HA	8:P:54:LYS:HD3	1.85	0.58
8:P:129:ILE:HG12	8:P:519:LEU:HD23	1.85	0.58
11:3:104:ARG:HB3	11:3:112:TYR:HB3	1.86	0.58
1:A:118:ILE:HG12	1:A:522:ILE:HB	1.85	0.58
1:A:478:PRO:HD3	1:A:498:ASN:HD22	1.68	0.58
3:C:230:ARG:HG3	3:C:233:ILE:HD11	1.85	0.58
5:E:445:GLN:HB2	5:E:449:ARG:HH12	1.68	0.58
7:G:294:PRO:HA	7:G:313:ARG:HG3	1.85	0.58
1:I:210:LEU:HD13	1:I:375:ILE:HG13	1.84	0.58
1:I:468:ARG:HA	1:I:471:HIS:HB2	1.84	0.58
4:L:338:LYS:NZ	4:L:385:THR:OG1	2.36	0.58
6:N:135:GLU:HA	6:N:138:LYS:HE3	1.85	0.58
9:1:114:GLU:O	9:1:118:ALA:N	2.36	0.58
1:A:160:ILE:HD11	1:A:384:MET:HB2	1.85	0.58
1:A:446:LEU:C	1:A:450:ASN:HD22	2.06	0.58
2:B:200:HIS:CD2	2:B:322:ARG:HH11	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:213:TYR:O	2:B:374:VAL:N	2.35	0.58
2:B:215:ASP:N	2:B:372:THR:O	2.37	0.58
4:D:129:HIS:HB3	4:D:132:ILE:HG12	1.85	0.58
4:D:430:ILE:HA	4:D:459:GLU:HG2	1.86	0.58
6:F:48:VAL:HA	6:F:53:ASP:O	2.03	0.58
8:H:413:GLY:C	8:H:477:ASN:HD22	2.06	0.58
3:K:17:GLU:OE1	3:K:522:ILE:N	2.25	0.58
3:K:481:ASN:OD1	3:K:483:GLU:HG2	2.03	0.58
5:M:50:THR:O	5:M:57:LEU:N	2.35	0.58
7:O:216:PHE:N	7:O:359:ASN:O	2.37	0.58
9:1:74:GLU:HA	9:1:77:HIS:CD2	2.39	0.58
11:3:163:ASP:O	11:3:166:ARG:HB3	2.03	0.58
14:6:86:GLU:HB3	14:6:89:ARG:NE	2.18	0.58
1:A:347:GLN:O	1:A:367:THR:HG23	2.04	0.58
2:B:109:LEU:HA	2:B:112:GLU:HB2	1.85	0.58
5:E:259:LYS:HB3	5:E:305:GLY:O	2.04	0.58
5:E:531:ASP:OD2	7:G:37:ARG:HB3	2.03	0.58
6:F:461:GLU:O	6:F:465:LYS:NZ	2.31	0.58
8:H:331:THR:H	8:H:343:GLU:HG3	1.68	0.58
4:L:228:VAL:H	4:L:387:THR:HG21	1.68	0.58
4:L:447:GLU:O	4:L:451:VAL:N	2.33	0.58
7:O:148:LYS:HE2	7:O:153:LYS:HB3	1.86	0.58
11:3:60:TYR:O	11:3:64:GLU:HG2	2.03	0.58
1:A:44:MET:SD	3:C:75:PRO:HB2	2.42	0.58
2:B:92:ASP:OD1	2:B:99:THR:OG1	2.21	0.58
4:D:244:ALA:HA	4:D:296:ASN:HB2	1.86	0.58
6:F:210:LEU:HD11	6:F:323:ARG:HB3	1.84	0.58
6:F:431:GLY:HA2	6:F:434:GLN:HB3	1.85	0.58
7:G:38:THR:OG1	7:G:452:ASN:ND2	2.37	0.58
7:G:155:LEU:HB3	7:G:180:VAL:HG22	1.85	0.58
8:H:35:ALA:HA	8:H:38:GLU:HB3	1.86	0.58
1:I:9:GLY:HA2	4:L:62:GLN:H	1.69	0.58
1:I:133:ASN:OD1	1:I:507:THR:OG1	2.16	0.58
3:K:376:LEU:HD12	3:K:384:LEU:HD12	1.85	0.58
4:L:253:LEU:HD21	4:L:290:ILE:HD11	1.85	0.58
5:M:291:GLN:HA	5:M:294:GLU:HB3	1.85	0.58
6:N:31:GLN:NE2	6:N:96:VAL:O	2.36	0.58
6:N:221:MET:HG3	6:N:311:VAL:HA	1.85	0.58
7:O:421:ARG:HA	7:O:424:SER:HB2	1.85	0.58
8:P:23:SER:HA	8:P:523:GLN:HB2	1.85	0.58
1:A:117:VAL:O	1:A:121:TYR:N	2.30	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:387:GLU:HA	2:B:390:LEU:HB3	1.84	0.58
3:C:198:TYR:HB3	3:C:325:ARG:HD3	1.85	0.58
3:C:272:GLU:OE2	3:C:306:ARG:NH2	2.37	0.58
3:C:275:ILE:O	3:C:279:CYS:N	2.31	0.58
3:C:452:ILE:HA	3:C:455:CYS:SG	2.44	0.58
4:D:191:VAL:O	4:D:195:ILE:N	2.36	0.58
4:D:231:GLN:HB3	4:D:372:LYS:NZ	2.19	0.58
4:D:345:VAL:HG11	4:D:351:PHE:CD1	2.39	0.58
5:E:156:LEU:HG	5:E:160:LYS:HE2	1.86	0.58
5:E:344:ARG:HA	7:G:271:TRP:CZ3	2.39	0.58
7:G:331:GLN:HG2	7:G:341:VAL:HB	1.86	0.58
8:H:161:SER:O	8:H:165:ARG:N	2.34	0.58
4:L:244:ALA:HB1	4:L:296:ASN:HB2	1.84	0.58
4:L:503:ILE:HG12	4:L:504:LEU:HD12	1.86	0.58
6:N:115:HIS:HB2	6:N:118:ILE:HG23	1.85	0.58
6:N:225:VAL:HB	6:N:350:VAL:HB	1.85	0.58
7:O:141:VAL:O	7:O:405:VAL:N	2.33	0.58
7:O:288:VAL:HG13	7:O:309:PHE:HD2	1.67	0.58
4:D:160:ARG:HG3	4:D:188:VAL:HG12	1.86	0.58
4:D:276:LEU:HD21	14:6:82:TYR:CD1	2.38	0.58
4:D:301:GLN:NE2	4:D:330:ARG:HH21	2.02	0.58
5:E:479:ALA:HA	4:L:444:SER:HB2	1.84	0.58
6:F:161:HIS:O	6:F:165:ALA:N	2.34	0.58
6:F:197:LYS:HA	6:F:380:ASN:ND2	2.18	0.58
8:H:467:LEU:HA	8:H:470:VAL:HG22	1.84	0.58
1:I:33:LYS:HE3	1:I:95:ILE:HG23	1.85	0.58
1:I:86:VAL:HG23	1:I:512:LYS:NZ	2.19	0.58
2:J:292:ASN:OD1	2:J:313:GLU:HA	2.04	0.58
3:K:36:ILE:HG21	3:K:48:LYS:HZ2	1.69	0.58
3:K:230:ARG:HB3	3:K:310:THR:HB	1.86	0.58
8:P:209:GLY:O	8:P:378:ARG:NH2	2.36	0.58
8:P:221:MET:HA	8:P:372:ILE:HD13	1.86	0.58
1:A:118:ILE:HA	1:A:121:TYR:CD2	2.39	0.58
4:D:283:ILE:HD11	14:6:78:LYS:HD3	1.85	0.58
5:E:49:ARG:HA	5:E:52:LEU:HG	1.85	0.58
5:E:538:GLU:OE1	7:G:52:GLY:N	2.27	0.58
7:G:142:THR:HG1	7:G:404:SER:HG	1.47	0.58
7:G:191:GLN:HB3	7:G:193:LYS:HG2	1.85	0.58
7:G:211:VAL:O	7:G:371:THR:N	2.37	0.58
8:H:242:TYR:HB3	8:H:333:LEU:O	2.04	0.58
8:H:322:ARG:O	8:H:326:LYS:N	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:215:ASP:HB2	2:J:374:VAL:HG23	1.86	0.58
3:K:113:LEU:HD22	3:K:436:PRO:HG3	1.86	0.58
5:M:59:LYS:O	5:M:71:THR:N	2.32	0.58
6:N:327:ALA:O	6:N:367:ASN:N	2.37	0.58
6:N:411:ALA:O	6:N:478:GLY:HA3	2.03	0.58
6:N:480:ASP:HB3	6:N:484:GLY:H	1.68	0.58
8:P:90:SER:O	8:P:94:GLU:N	2.34	0.58
8:P:240:ALA:HB3	8:P:283:ILE:HG23	1.85	0.58
1:A:45:LEU:HD11	1:A:61:ILE:HD12	1.85	0.58
1:A:235:ALA:HB1	1:A:328:LEU:HD12	1.84	0.58
1:A:317:LYS:O	1:A:321:LYS:N	2.36	0.58
3:C:433:GLU:HA	3:C:436:PRO:HD2	1.86	0.58
7:G:201:GLN:NE2	7:G:377:GLY:O	2.37	0.58
1:I:165:GLY:HA2	1:I:168:PHE:HB2	1.86	0.58
4:L:430:ILE:HG13	4:L:459:GLU:HA	1.86	0.58
5:M:185:MET:HB3	5:M:402:LEU:HD13	1.85	0.58
5:M:361:GLU:HA	5:M:372:LEU:HA	1.84	0.58
6:N:424:LYS:HE3	6:N:437:VAL:HG23	1.86	0.58
7:O:423:TYR:HA	7:O:426:THR:HB	1.86	0.58
8:P:212:ILE:HD12	8:P:384:LEU:HB3	1.86	0.58
8:P:493:LEU:HD12	8:P:498:LEU:HD11	1.86	0.58
9:1:73:LYS:HA	9:1:76:ILE:HB	1.85	0.58
2:B:337:HIS:HB3	2:B:340:LEU:HB2	1.86	0.57
5:E:246:ALA:HB1	5:E:358:LEU:HA	1.85	0.57
6:F:179:ILE:HG13	6:F:184:GLU:HB3	1.85	0.57
6:F:189:PHE:C	6:F:191:ILE:H	2.08	0.57
8:H:464:ILE:O	8:H:468:TYR:N	2.32	0.57
1:I:32:VAL:O	1:I:36:LEU:N	2.37	0.57
2:J:290:PHE:HE2	2:J:292:ASN:HD22	1.52	0.57
3:K:469:LYS:HD2	3:K:478:TRP:CD1	2.39	0.57
7:O:236:LYS:H	7:O:287:LYS:HB2	1.68	0.57
8:P:356:GLY:HA3	8:P:376:VAL:HG11	1.84	0.57
1:A:529:ASP:HB2	4:D:59:LYS:HG2	1.86	0.57
2:B:429:PRO:HB3	2:J:463:ALA:HB1	1.86	0.57
3:C:303:TYR:HD1	3:C:306:ARG:HD2	1.70	0.57
4:D:418:LYS:HG3	4:D:513:LEU:N	2.19	0.57
5:E:102:ILE:HA	5:E:411:ASN:OD1	2.04	0.57
5:E:330:ILE:HD12	5:E:341:ILE:HG21	1.86	0.57
5:E:463:SER:HB3	5:E:468:MET:HG3	1.85	0.57
7:G:139:ILE:HG12	7:G:474:TRP:CH2	2.39	0.57
3:K:425:LYS:O	3:K:429:MET:N	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:333:ILE:O	4:L:336:ILE:HG22	2.04	0.57
5:M:163:GLU:HB3	5:M:164:PRO:HD3	1.86	0.57
8:P:191:PHE:HE2	8:P:197:PHE:HA	1.69	0.57
8:P:219:HIS:HA	8:P:373:SER:HA	1.86	0.57
2:B:127:ILE:O	2:B:131:ARG:HG3	2.03	0.57
2:B:360:ILE:HG22	2:B:362:PHE:HE1	1.69	0.57
2:B:456:TYR:CD2	2:B:483:GLY:HA3	2.38	0.57
4:D:413:ARG:HA	4:D:416:VAL:HG22	1.85	0.57
5:E:437:ALA:HB3	5:E:449:ARG:HG3	1.85	0.57
5:E:535:LYS:HG3	5:E:537:GLY:H	1.69	0.57
5:E:541:GLU:HB3	7:G:50:VAL:HG12	1.86	0.57
6:F:451:LEU:O	6:F:455:SER:N	2.34	0.57
7:G:22:LEU:HD22	7:G:112:VAL:HG11	1.85	0.57
2:J:17:ASP:N	2:J:522:LYS:O	2.30	0.57
2:J:172:LEU:HB3	2:J:175:HIS:HB2	1.85	0.57
5:M:202:ARG:HG2	5:M:414:ARG:HB3	1.86	0.57
6:N:186:ILE:HG22	6:N:396:ARG:HB2	1.85	0.57
8:P:172:GLN:HG2	8:P:174:GLY:N	2.17	0.57
8:P:232:THR:HG21	8:P:310:ILE:HA	1.85	0.57
1:A:143:LEU:HB3	1:A:504:PHE:CZ	2.39	0.57
1:A:232:ALA:N	1:A:348:ALA:O	2.37	0.57
2:B:60:SER:HA	4:D:89:ARG:HH22	1.69	0.57
3:C:142:ILE:HG23	3:C:407:LEU:HD12	1.86	0.57
3:C:430:THR:HG21	8:P:471:HIS:CE1	2.39	0.57
4:D:271:GLN:HE22	12:4:48:GLN:NE2	2.01	0.57
6:F:35:ARG:HD3	6:F:454:ASN:HD21	1.68	0.57
6:F:418:MET:O	6:F:422:LEU:N	2.27	0.57
6:F:498:TYR:HD1	6:F:501:LYS:HE3	1.69	0.57
8:H:16:LYS:HG3	8:H:18:GLY:H	1.69	0.57
2:J:498:GLN:O	2:J:502:GLN:N	2.27	0.57
8:P:161:SER:HB2	8:P:180:ALA:HB1	1.87	0.57
8:P:229:GLY:N	8:P:302:LEU:HD11	2.19	0.57
11:3:51:LYS:NZ	11:3:177:ALA:O	2.34	0.57
1:A:63:LYS:HD3	1:A:80:ASP:HB2	1.86	0.57
1:A:175:ALA:O	1:A:179:ILE:HG12	2.05	0.57
2:B:186:ALA:HB1	2:B:199:ILE:HD12	1.86	0.57
3:C:85:ARG:O	3:C:89:GLU:N	2.24	0.57
3:C:388:GLU:HA	3:C:391:LEU:HB3	1.86	0.57
4:D:170:SER:O	4:D:173:SER:OG	2.19	0.57
4:D:249:ILE:HB	4:D:300:ILE:HG12	1.86	0.57
4:D:306:ARG:HG2	4:D:309:LEU:HG	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:315:HIS:CE1	14:6:73:ARG:HG3	2.36	0.57
5:E:55:ASN:ND2	5:E:493:CYS:O	2.37	0.57
5:E:130:PRO:HB2	5:E:528:LEU:HD11	1.87	0.57
6:F:470:HIS:O	6:F:474:GLY:N	2.34	0.57
1:I:211:ILE:HG21	1:I:363:LEU:HD22	1.86	0.57
2:J:192:GLY:O	2:J:402:LYS:NZ	2.33	0.57
3:K:38:ARG:HD3	3:K:447:ILE:HD13	1.85	0.57
3:K:42:GLY:HA3	3:K:451:LEU:HD22	1.85	0.57
4:L:184:SER:O	4:L:188:VAL:N	2.30	0.57
5:M:399:LYS:O	5:M:403:HIS:N	2.26	0.57
5:M:420:TYR:HB2	5:M:487:PRO:HB2	1.86	0.57
6:N:145:ARG:NH1	6:N:146:GLU:OE2	2.37	0.57
8:P:165:ARG:HB2	8:P:180:ALA:HB2	1.86	0.57
8:P:168:ILE:O	8:P:172:GLN:N	2.38	0.57
1:A:237:LEU:HD22	1:A:239:PHE:CZ	2.39	0.57
1:A:243:LYS:HE3	1:A:245:LYS:HE2	1.87	0.57
2:B:130:TRP:NE1	2:B:435:ALA:O	2.33	0.57
2:B:215:ASP:HB3	2:B:372:THR:HB	1.87	0.57
3:C:238:ILE:HG12	3:C:363:ILE:HG12	1.87	0.57
4:D:217:THR:OG1	4:D:220:ASP:N	2.35	0.57
5:E:221:ASP:HB2	5:E:388:ARG:HB2	1.87	0.57
5:E:268:VAL:HG11	5:E:274:TYR:HA	1.87	0.57
5:E:458:ILE:O	5:E:462:LEU:N	2.31	0.57
7:G:297:ASP:HA	7:G:300:THR:HG22	1.87	0.57
8:H:477:ASN:O	8:H:490:LYS:HB2	2.04	0.57
1:I:235:ALA:H	1:I:286:ILE:HA	1.69	0.57
4:L:183:LEU:O	4:L:187:SER:N	2.36	0.57
4:L:476:THR:O	4:L:480:LEU:N	2.32	0.57
4:L:533:ASP:OD1	4:L:534:ASP:N	2.37	0.57
6:N:347:ALA:HB2	6:N:363:ILE:HG23	1.84	0.57
7:O:280:LYS:HA	7:O:283:HIS:CE1	2.39	0.57
11:3:117:VAL:HG22	11:3:119:PRO:HD3	1.87	0.57
1:A:145:ARG:CZ	1:A:401:ARG:HG3	2.34	0.57
1:A:229:ILE:HD11	1:A:285:VAL:HG23	1.86	0.57
2:B:518:ASP:OD1	2:B:519:ASN:N	2.34	0.57
3:C:313:ARG:H	9:1:115:MET:HE3	1.70	0.57
4:D:276:LEU:HB3	4:D:280:ARG:NE	2.19	0.57
4:D:410:CYS:HA	4:D:413:ARG:HG2	1.84	0.57
4:D:424:GLY:N	4:D:508:VAL:O	2.30	0.57
6:F:452:ALA:HB2	6:F:479:VAL:HG11	1.86	0.57
7:G:295:ILE:HD12	7:G:303:PHE:HE2	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:234:ILE:O	1:I:345:LEU:HA	2.04	0.57
1:I:278:ILE:HG21	1:I:286:ILE:HG22	1.86	0.57
2:J:137:ALA:O	2:J:141:LEU:N	2.32	0.57
4:L:171:LEU:HB3	4:L:180:SER:OG	2.04	0.57
5:M:292:ILE:O	5:M:296:GLY:N	2.33	0.57
5:M:307:ASP:O	5:M:311:ASN:N	2.37	0.57
6:N:418:MET:HE3	6:N:422:LEU:HD22	1.85	0.57
13:5:45:GLU:O	13:5:49:CYS:N	2.23	0.57
1:A:13:THR:HA	1:A:17:ILE:HB	1.84	0.57
1:A:123:LEU:HA	1:A:126:LYS:HG2	1.87	0.57
2:B:189:ARG:HD2	2:B:371:CYS:SG	2.44	0.57
4:D:441:ARG:HA	5:M:478:ARG:NH2	2.19	0.57
5:E:423:GLY:HA3	5:E:491:ILE:H	1.70	0.57
6:F:300:PHE:HA	6:F:303:ASP:HB3	1.87	0.57
7:G:85:SER:O	7:G:89:GLU:HG2	2.04	0.57
7:G:123:ARG:HB2	7:G:431:GLN:HE22	1.70	0.57
7:G:165:SER:HA	7:G:480:ASN:HD22	1.70	0.57
7:G:345:CYS:SG	7:G:361:PHE:HB3	2.44	0.57
3:K:237:ARG:NE	3:K:330:ARG:HE	2.02	0.57
4:L:50:THR:HG23	4:L:468:ASN:HB2	1.86	0.57
4:L:209:LYS:HZ3	4:L:230:THR:H	1.52	0.57
7:O:420:LEU:HB2	7:O:439:ALA:HB2	1.87	0.57
8:P:246:PHE:HB2	8:P:297:VAL:HG22	1.87	0.57
8:P:510:LEU:HD23	8:P:513:ASN:HD22	1.70	0.57
11:3:73:ARG:HG3	11:3:155:LEU:HB2	1.87	0.57
14:6:30:ARG:HD2	14:6:90:TYR:HB3	1.87	0.57
1:A:421:ILE:HG21	7:O:425:ARG:CZ	2.35	0.57
1:A:431:GLY:N	1:A:435:GLN:HB2	2.19	0.57
3:C:165:ILE:HB	3:C:390:ASN:OD1	2.05	0.57
4:D:123:LEU:O	4:D:127:GLY:N	2.37	0.57
5:E:148:LEU:HD11	5:E:419:VAL:HG21	1.85	0.57
6:F:293:ASN:O	6:F:315:ARG:N	2.37	0.57
8:H:223:PHE:HB2	8:H:361:VAL:HB	1.85	0.57
1:I:109:LYS:N	4:L:469:ALA:HB3	2.20	0.57
4:L:61:ILE:O	4:L:69:THR:N	2.36	0.57
4:L:437:THR:HA	4:L:440:SER:HB2	1.86	0.57
5:M:31:LEU:HA	5:M:34:LEU:HB3	1.85	0.57
6:N:271:VAL:HG21	6:N:304:ALA:HB3	1.86	0.57
7:O:159:ALA:O	7:O:163:LEU:N	2.31	0.57
7:O:397:ARG:O	7:O:401:LYS:N	2.31	0.57
8:P:271:GLY:O	8:P:275:LEU:N	2.30	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:304:TYR:CE2	8:P:308:TYR:HB2	2.40	0.57
9:1:34:ILE:HA	9:1:37:LEU:HD12	1.87	0.57
7:G:50:VAL:HG22	7:G:56:ALA:HA	1.87	0.57
8:H:356:GLY:HA2	8:H:378:ARG:NE	2.20	0.57
2:J:473:ASN:O	2:J:476:ALA:N	2.38	0.57
3:K:141:SER:HB2	3:K:406:GLN:HG2	1.86	0.57
3:K:287:PRO:HD3	3:K:335:PRO:HG2	1.85	0.57
3:K:414:SER:HA	3:K:417:ALA:HB3	1.87	0.57
4:L:192:MET:HA	4:L:195:ILE:HB	1.87	0.57
7:O:317:GLU:HG2	7:O:321:ARG:HG3	1.85	0.57
10:2:43:LYS:HB3	10:2:105:THR:HG21	1.87	0.57
12:4:91:LYS:O	12:4:95:GLN:N	2.35	0.57
2:B:258:VAL:HA	2:B:263:LYS:HG2	1.87	0.56
3:C:323:ILE:HA	3:C:326:ALA:HB3	1.87	0.56
4:D:249:ILE:HD12	4:D:300:ILE:HD11	1.87	0.56
7:G:74:PRO:O	7:G:78:THR:N	2.30	0.56
7:G:431:GLN:HA	7:G:434:LEU:HB3	1.87	0.56
8:H:423:ILE:HG21	8:H:441:PHE:HD2	1.70	0.56
1:I:17:ILE:HA	1:I:20:GLN:HB3	1.86	0.56
2:J:115:SER:O	2:J:119:LYS:N	2.38	0.56
3:K:237:ARG:HH22	3:K:335:PRO:HB3	1.69	0.56
7:O:121:ILE:HG23	7:O:434:LEU:HG	1.87	0.56
8:P:45:THR:HA	8:P:455:ASN:HB2	1.85	0.56
8:P:228:GLU:HB2	8:P:314:ARG:HE	1.70	0.56
8:P:435:GLN:O	8:P:439:LYS:HG2	2.05	0.56
1:A:311:VAL:HG11	1:A:316:LEU:HD13	1.86	0.56
2:B:228:GLN:HG3	2:B:311:ALA:H	1.70	0.56
3:C:178:ASP:O	3:C:182:MET:N	2.37	0.56
3:C:233:ILE:HB	3:C:350:LEU:HB3	1.86	0.56
3:C:418:VAL:HB	3:C:444:LEU:HD13	1.87	0.56
5:E:129:HIS:HB3	5:E:131:ILE:HB	1.87	0.56
5:E:403:HIS:HA	5:E:406:LEU:HB2	1.86	0.56
6:F:142:GLU:HG3	6:F:143:MET:H	1.69	0.56
8:H:430:CYS:SG	8:H:438:ILE:HD13	2.44	0.56
1:I:119:SER:O	1:I:123:LEU:N	2.26	0.56
1:I:241:LEU:HB2	1:I:309:ARG:HH22	1.68	0.56
2:J:179:PHE:HA	2:J:182:LEU:HB3	1.87	0.56
3:K:215:LEU:CB	3:K:375:LEU:H	2.14	0.56
4:L:29:LYS:HA	4:L:32:GLN:HG2	1.86	0.56
5:M:512:GLY:O	5:M:516:GLN:N	2.29	0.56
8:P:229:GLY:H	8:P:302:LEU:HD11	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:470:VAL:HG13	8:P:472:GLN:H	1.69	0.56
1:A:275:ILE:HD12	1:A:300:PHE:CE2	2.41	0.56
1:A:395:ALA:HA	1:A:398:VAL:HB	1.87	0.56
3:C:196:LYS:HD2	3:C:395:MET:HG3	1.87	0.56
3:C:353:LYS:HB2	3:C:362:PHE:HE2	1.70	0.56
3:C:404:ASP:OD2	3:C:499:LEU:HB3	2.05	0.56
4:D:152:SER:HB3	4:D:420:ALA:HB3	1.86	0.56
4:D:179:TYR:O	4:D:183:LEU:N	2.35	0.56
4:D:316:PHE:HA	4:D:319:LYS:HB3	1.86	0.56
5:E:124:LEU:HA	5:E:128:ILE:H	1.68	0.56
5:E:340:ARG:N	5:E:351:GLU:O	2.38	0.56
5:E:434:SER:HB3	4:L:441:ARG:HH22	1.70	0.56
5:E:502:LYS:HG3	5:E:503:GLN:H	1.69	0.56
5:E:512:GLY:O	5:E:516:GLN:HG3	2.05	0.56
6:F:40:PRO:HD2	6:F:481:LEU:HD12	1.87	0.56
6:F:50:GLY:HA3	6:F:67:MET:HA	1.87	0.56
6:F:216:ALA:HB2	6:F:314:ARG:H	1.68	0.56
7:G:240:LEU:HD23	7:G:331:GLN:HB2	1.87	0.56
7:G:260:VAL:HA	7:G:263:TYR:CD2	2.39	0.56
7:G:282:HIS:HB3	7:G:306:ARG:NE	2.20	0.56
7:G:295:ILE:HG12	7:G:312:GLY:HA3	1.86	0.56
7:G:419:TYR:HA	7:G:422:ASP:HB2	1.86	0.56
8:H:239:ILE:HA	8:H:290:VAL:HG13	1.88	0.56
2:J:45:PRO:HG2	2:J:480:MET:HB2	1.86	0.56
2:J:238:LEU:HD23	2:J:290:PHE:HD1	1.70	0.56
3:K:328:GLY:HA3	3:K:345:THR:HA	1.86	0.56
5:M:234:PHE:HE1	5:M:299:LEU:HD13	1.69	0.56
6:N:151:VAL:HG22	6:N:495:TRP:HB2	1.87	0.56
6:N:291:VAL:HG23	6:N:312:ALA:HA	1.88	0.56
8:P:217:VAL:HG22	8:P:375:ILE:HG12	1.85	0.56
8:P:246:PHE:N	8:P:296:LYS:O	2.35	0.56
8:P:493:LEU:HA	8:P:498:LEU:HD21	1.88	0.56
13:5:47:LYS:HB2	13:5:103:PHE:HB3	1.87	0.56
14:6:27:MET:HB2	14:6:90:TYR:CE1	2.40	0.56
2:B:359:LEU:HB2	2:B:361:HIS:CE1	2.39	0.56
4:D:160:ARG:NH2	4:D:189:ASN:HB2	2.18	0.56
5:E:196:VAL:HG12	5:E:200:GLU:HG2	1.87	0.56
5:E:249:ALA:HA	5:E:353:LEU:HB3	1.86	0.56
5:E:342:VAL:HA	5:E:352:LYS:HB3	1.87	0.56
6:F:38:LEU:HA	6:F:158:THR:HG23	1.87	0.56
6:F:154:THR:HB	6:F:157:ARG:NH2	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:409:PRO:HD2	6:F:476:LEU:HD12	1.88	0.56
7:G:176:ALA:O	7:G:180:VAL:HG23	2.06	0.56
8:H:97:VAL:HG12	8:H:98:GLY:N	2.17	0.56
8:H:367:LYS:H	8:H:371:ALA:HB2	1.71	0.56
1:I:276:GLN:HG2	1:I:279:LEU:HD12	1.86	0.56
3:K:399:ARG:O	3:K:403:LEU:N	2.26	0.56
3:K:407:LEU:HB2	3:K:499:LEU:H	1.70	0.56
4:L:33:ILE:HG21	4:L:535:VAL:HG22	1.87	0.56
4:L:340:ILE:HG12	4:L:379:CYS:HB2	1.86	0.56
5:M:228:VAL:HG21	5:M:333:ILE:HG12	1.87	0.56
5:M:269:THR:HG23	7:O:256:ARG:HH22	1.70	0.56
5:M:335:ILE:O	5:M:381:ARG:HD2	2.05	0.56
6:N:38:LEU:HD12	6:N:39:GLY:H	1.70	0.56
8:P:272:GLU:O	8:P:276:MET:N	2.26	0.56
8:P:327:THR:OG1	8:P:370:GLY:O	2.21	0.56
11:3:63:MET:HE3	11:3:162:LEU:HB3	1.87	0.56
1:A:526:ARG:HA	4:D:57:MET:HB3	1.88	0.56
2:B:130:TRP:HA	2:B:133:ALA:HB3	1.86	0.56
2:B:384:ASP:OD1	2:B:385:GLU:N	2.38	0.56
3:C:45:SER:O	6:F:117:ARG:NH1	2.39	0.56
3:C:101:LEU:HB2	3:C:509:ALA:HB3	1.88	0.56
3:C:230:ARG:NH2	3:C:308:ASN:O	2.39	0.56
8:H:221:MET:HA	8:H:374:THR:OG1	2.05	0.56
1:I:477:ASN:O	1:I:484:LYS:NZ	2.37	0.56
1:I:529:ASP:HA	4:L:50:THR:H	1.71	0.56
2:J:174:HIS:H	2:J:210:ALA:HB3	1.71	0.56
3:K:137:LEU:HG	3:K:408:VAL:HG11	1.88	0.56
3:K:417:ALA:HA	3:K:470:HIS:HE1	1.70	0.56
6:N:393:ASP:OD1	6:N:396:ARG:NH1	2.38	0.56
6:N:424:LYS:HB3	6:N:434:GLN:HG3	1.86	0.56
8:P:417:ILE:HG13	8:P:473:GLU:HB3	1.86	0.56
11:3:71:LYS:O	11:3:74:LEU:HB3	2.05	0.56
11:3:112:TYR:O	13:5:82:VAL:HA	2.05	0.56
1:A:423:LEU:HA	1:A:426:TYR:HB3	1.88	0.56
2:B:122:HIS:NE2	5:E:464:GLU:O	2.37	0.56
3:C:195:ILE:HG21	3:C:198:TYR:CD2	2.41	0.56
3:C:249:LYS:HE2	3:C:257:GLU:HA	1.87	0.56
4:D:254:SER:HA	4:D:310:SER:HB2	1.86	0.56
4:D:285:ASN:HA	4:D:288:LYS:HB2	1.88	0.56
4:D:461:ILE:O	4:D:464:THR:OG1	2.18	0.56
5:E:77:ILE:O	5:E:81:MET:N	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:285:PHE:CZ	5:E:310:ALA:HB1	2.40	0.56
7:G:108:VAL:HG13	7:G:111:TYR:HB2	1.87	0.56
7:G:209:GLN:N	7:G:373:ILE:O	2.39	0.56
8:H:123:LEU:HD22	8:H:128:VAL:HB	1.88	0.56
1:I:179:ILE:HG21	1:I:191:PRO:HD2	1.86	0.56
1:I:220:VAL:HG12	1:I:227:LYS:HE3	1.87	0.56
3:K:453:GLN:O	6:N:115:HIS:NE2	2.38	0.56
4:L:137:PHE:HB2	4:L:527:ARG:HH21	1.70	0.56
4:L:299:LEU:HD22	4:L:328:ILE:HG12	1.86	0.56
4:L:479:GLU:HA	4:L:482:ASN:HB2	1.88	0.56
5:M:59:LYS:HB2	5:M:71:THR:O	2.06	0.56
6:N:52:GLY:O	8:P:20:LYS:NZ	2.36	0.56
6:N:145:ARG:HB2	6:N:177:LEU:HD22	1.87	0.56
8:P:328:VAL:HA	8:P:369:ASP:HB3	1.87	0.56
8:P:409:VAL:HB	8:P:504:LYS:HG3	1.88	0.56
9:1:92:LYS:O	9:1:96:GLN:N	2.35	0.56
13:5:89:GLY:O	14:6:59:LEU:HB3	2.04	0.56
1:A:474:ALA:HA	1:A:485:TRP:HZ3	1.70	0.56
2:B:293:ARG:HD3	2:B:317:PHE:HD1	1.71	0.56
2:B:519:ASN:HB2	5:E:59:LYS:HG2	1.88	0.56
4:D:301:GLN:HE22	4:D:306:ARG:CZ	2.18	0.56
4:D:312:LEU:HG	14:6:78:LYS:HA	1.87	0.56
5:E:258:PRO:HD2	7:G:263:TYR:HB3	1.87	0.56
6:F:319:ARG:HG3	6:F:320:ASN:N	2.20	0.56
7:G:186:LEU:HD11	7:G:194:MET:HG3	1.87	0.56
1:I:156:MET:HB3	1:I:160:ILE:HD13	1.87	0.56
3:K:168:TRP:HB3	3:K:172:ALA:HB2	1.88	0.56
3:K:242:ASP:OD2	3:K:339:ARG:NH2	2.34	0.56
5:M:26:SER:HB2	5:M:536:PRO:HA	1.88	0.56
5:M:329:GLU:HG3	5:M:332:LEU:HD23	1.88	0.56
7:O:445:ILE:O	7:O:449:LEU:N	2.37	0.56
2:B:522:LYS:HZ3	5:E:62:VAL:HG11	1.70	0.56
3:C:22:VAL:O	3:C:26:ASN:ND2	2.38	0.56
3:C:408:VAL:HG11	3:C:502:LYS:HG3	1.88	0.56
6:F:289:PHE:HE1	6:F:344:LEU:HD13	1.71	0.56
8:H:240:ALA:HB3	8:H:291:VAL:HA	1.87	0.56
1:I:241:LEU:HB3	1:I:271:THR:HG22	1.87	0.56
6:N:47:LEU:HB3	6:N:55:LYS:HB2	1.87	0.56
6:N:426:LYS:HG3	6:N:427:PRO:HD3	1.87	0.56
7:O:247:LYS:HD3	7:O:270:GLU:HB3	1.87	0.56
7:O:291:SER:O	7:O:313:ARG:N	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:13:THR:OG1	1:A:528:ASP:O	2.23	0.56
1:A:317:LYS:O	1:A:321:LYS:HG2	2.06	0.56
3:C:38:ARG:CZ	3:C:446:VAL:HG23	2.36	0.56
5:E:419:VAL:O	5:E:507:ILE:HG13	2.05	0.56
5:E:496:LYS:HD2	5:E:504:GLN:NE2	2.20	0.56
7:G:16:SER:N	7:G:519:THR:O	2.39	0.56
7:G:85:SER:O	7:G:89:GLU:N	2.39	0.56
7:G:214:VAL:O	7:G:361:PHE:HB2	2.06	0.56
7:G:292:LYS:HB3	7:G:319:LEU:HD22	1.88	0.56
8:H:45:THR:HG22	8:H:455:ASN:ND2	2.20	0.56
1:I:531:ILE:HG21	4:L:81:MET:HB2	1.88	0.56
2:J:394:LEU:HA	2:J:397:LEU:HB2	1.86	0.56
2:J:396:VAL:HA	2:J:399:GLN:HG2	1.88	0.56
2:J:415:MET:HB3	2:J:466:ARG:HG3	1.86	0.56
3:K:417:ALA:HA	3:K:470:HIS:CE1	2.41	0.56
4:L:208:ILE:HA	4:L:386:VAL:O	2.06	0.56
5:M:151:ILE:HG21	5:M:419:VAL:HG23	1.88	0.56
5:M:522:GLN:HE22	7:O:381:PHE:HB2	1.71	0.56
6:N:203:ASP:OD1	6:N:204:THR:N	2.39	0.56
8:P:450:ARG:HG2	8:P:460:ALA:HB3	1.88	0.56
9:1:58:THR:O	9:1:70:LEU:HD11	2.05	0.56
2:B:21:ALA:HB2	2:B:518:ASP:HB2	1.87	0.56
3:C:218:VAL:HG11	3:C:322:ARG:HB3	1.88	0.56
4:D:169:THR:O	4:D:173:SER:N	2.39	0.56
4:D:365:VAL:HG12	4:D:367:LEU:H	1.71	0.56
8:H:68:ASP:HB3	8:H:390:ARG:NH2	2.21	0.56
2:J:123:PRO:O	2:J:127:ILE:HG12	2.06	0.56
2:J:201:ILE:HG23	2:J:375:LEU:HD13	1.87	0.56
3:K:378:GLY:HA3	3:K:383:ILE:HG23	1.88	0.56
3:K:459:THR:HA	3:K:462:LEU:HD12	1.88	0.56
4:L:140:ALA:O	4:L:144:GLY:N	2.37	0.56
4:L:191:VAL:HG13	4:L:203:VAL:HG11	1.87	0.56
4:L:296:ASN:O	4:L:322:ILE:HA	2.06	0.56
4:L:330:ARG:NH1	4:L:333:ILE:HG21	2.20	0.56
7:O:62:GLY:O	7:O:65:ILE:HG13	2.06	0.56
8:P:324:LEU:O	8:P:328:VAL:HG22	2.06	0.56
8:P:428:GLU:OE1	8:P:435:GLN:NE2	2.38	0.56
14:6:26:SER:OG	14:6:93:GLN:OE1	2.21	0.56
1:A:251:GLN:NE2	1:A:259:LYS:HA	2.18	0.55
2:B:419:HIS:HA	2:B:422:THR:HB	1.87	0.55
3:C:227:PRO:HD3	3:C:359:TYR:CD2	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:423:THR:O	3:C:427:LYS:HG2	2.06	0.55
3:C:493:LEU:HB3	3:C:495:ILE:HG12	1.88	0.55
6:F:41:LYS:HE2	6:F:454:ASN:C	2.27	0.55
6:F:189:PHE:HB2	6:F:370:ARG:NH1	2.21	0.55
6:F:289:PHE:CE1	6:F:344:LEU:HD13	2.41	0.55
3:K:76:ALA:O	3:K:80:MET:N	2.39	0.55
4:L:129:HIS:ND1	4:L:130:PRO:HD2	2.20	0.55
4:L:291:LYS:HD2	4:L:296:ASN:HD21	1.71	0.55
4:L:504:LEU:O	4:L:509:VAL:HG12	2.07	0.55
6:N:192:GLU:OE1	6:N:323:ARG:NH1	2.39	0.55
1:A:201:HIS:HA	1:A:379:GLY:H	1.71	0.55
1:A:236:CYS:O	1:A:329:SER:N	2.40	0.55
2:B:109:LEU:HB3	2:B:130:TRP:CZ3	2.41	0.55
3:C:17:GLU:O	3:C:522:ILE:N	2.38	0.55
3:C:489:ASP:OD1	3:C:491:LYS:N	2.26	0.55
4:D:311:ASP:HA	4:D:314:LEU:HB3	1.88	0.55
4:D:481:ARG:HH21	5:M:445:GLN:HG2	1.69	0.55
4:D:502:ASN:O	4:D:505:GLU:HG2	2.05	0.55
5:E:415:ASP:O	5:E:511:ILE:HD11	2.06	0.55
5:E:421:GLY:N	5:E:501:MET:HG2	2.21	0.55
6:F:99:ILE:HG23	6:F:512:ALA:HB2	1.88	0.55
6:F:213:ASP:OD1	6:F:214:HIS:ND1	2.39	0.55
7:G:287:LYS:HA	7:G:308:MET:HB3	1.87	0.55
8:H:198:ASN:O	8:H:202:ILE:HG12	2.06	0.55
7:O:195:ILE:HA	7:O:370:CYS:HB2	1.87	0.55
8:P:100:GLY:O	8:P:104:VAL:N	2.39	0.55
8:P:324:LEU:HA	8:P:327:THR:HG22	1.87	0.55
8:P:475:ASN:HB2	8:P:491:ASP:CB	2.36	0.55
11:3:56:GLN:HG3	11:3:60:TYR:CE2	2.41	0.55
1:A:161:ILE:HD13	1:A:387:GLU:HB3	1.86	0.55
1:A:251:GLN:HG3	1:A:259:LYS:HD2	1.89	0.55
3:C:210:GLU:OE1	3:C:210:GLU:N	2.23	0.55
3:C:352:ILE:HG12	3:C:361:THR:HA	1.89	0.55
3:C:378:GLY:HA3	3:C:384:LEU:HB2	1.88	0.55
3:C:406:GLN:O	3:C:498:PRO:HA	2.07	0.55
4:D:272:MET:HA	4:D:275:VAL:HG12	1.88	0.55
5:E:123:LEU:HB3	5:E:128:ILE:HD12	1.88	0.55
5:E:259:LYS:O	5:E:304:TRP:HB3	2.06	0.55
5:E:334:ALA:O	5:E:337:THR:OG1	2.25	0.55
5:E:407:CYS:HA	5:E:410:ARG:HB3	1.88	0.55
6:F:464:VAL:HA	6:F:467:GLN:HB2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:281:ILE:HD13	7:G:336:ALA:HB3	1.88	0.55
8:H:142:ILE:HG22	8:H:146:LEU:HG	1.88	0.55
8:H:154:LEU:HD22	8:H:404:ARG:NH1	2.21	0.55
8:H:186:ALA:HB2	8:H:217:VAL:HG21	1.89	0.55
1:I:463:LEU:O	1:I:467:LEU:HG	2.07	0.55
2:J:318:ALA:HA	2:J:321:GLU:HB3	1.89	0.55
3:K:326:ALA:HB1	3:K:365:ASP:HB3	1.87	0.55
3:K:388:GLU:HA	3:K:391:LEU:HB2	1.87	0.55
4:L:35:PHE:O	4:L:39:SER:N	2.39	0.55
7:O:136:ILE:HG23	7:O:406:VAL:HG11	1.87	0.55
8:P:423:ILE:HG21	8:P:441:PHE:HD2	1.70	0.55
9:1:20:VAL:O	9:1:24:GLN:HB2	2.06	0.55
3:C:249:LYS:HB2	3:C:255:ASP:H	1.70	0.55
4:D:61:ILE:O	4:D:69:THR:N	2.38	0.55
4:D:111:ILE:HG22	4:D:461:ILE:HG12	1.88	0.55
5:E:52:LEU:HD21	5:E:111:VAL:HG21	1.88	0.55
5:E:301:ILE:HG22	5:E:330:ILE:HG22	1.87	0.55
6:F:76:LEU:HD23	6:F:79:LYS:HZ1	1.72	0.55
7:G:145:LYS:HG3	7:G:151:GLN:HB2	1.89	0.55
8:H:421:LYS:CE	8:H:471:HIS:HA	2.35	0.55
1:I:152:ALA:HA	1:I:395:ALA:HB1	1.87	0.55
2:J:51:ILE:HD12	2:J:63:VAL:HG22	1.87	0.55
3:K:296:ILE:HD11	3:K:311:ALA:HB1	1.87	0.55
4:L:528:SER:O	4:L:532:ILE:HG13	2.07	0.55
5:M:52:LEU:HD21	5:M:458:ILE:HG23	1.87	0.55
8:P:38:GLU:OE1	8:P:80:HIS:NE2	2.40	0.55
8:P:246:PHE:O	8:P:297:VAL:HA	2.07	0.55
9:1:51:ILE:HG12	9:1:60:MET:HG2	1.89	0.55
13:5:92:VAL:HG21	14:6:46:GLU:OE1	2.07	0.55
1:A:127:GLU:HG3	1:A:422:TYR:CE2	2.42	0.55
2:B:421:VAL:HG11	2:B:439:TYR:CD2	2.41	0.55
3:C:94:GLY:O	3:C:98:VAL:N	2.38	0.55
3:C:125:ALA:O	3:C:129:ALA:N	2.37	0.55
4:D:227:LEU:HD11	4:D:339:THR:OG1	2.06	0.55
4:D:441:ARG:HH22	5:M:449:ARG:CZ	2.20	0.55
5:E:260:PRO:HD2	5:E:264:HIS:ND1	2.22	0.55
8:H:99:ASP:HA	8:H:171:LYS:NZ	2.22	0.55
1:I:137:ILE:HB	1:I:478:PRO:O	2.06	0.55
2:J:200:HIS:CD2	2:J:318:ALA:HB1	2.42	0.55
3:K:469:LYS:HB2	3:K:487:LEU:HD13	1.88	0.55
6:N:150:ASP:HB3	6:N:493:GLY:O	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:3:112:TYR:CD2	13:5:83:LEU:HD22	2.41	0.55
14:6:46:GLU:HA	14:6:49:LEU:HB2	1.88	0.55
14:6:72:ALA:HA	14:6:75:THR:HB	1.88	0.55
1:A:419:LEU:O	1:A:423:LEU:HB2	2.07	0.55
2:B:27:THR:HA	2:B:30:ILE:HG12	1.87	0.55
4:D:137:PHE:CE1	4:D:454:PHE:HB2	2.42	0.55
8:H:423:ILE:HA	8:H:426:TYR:HB3	1.89	0.55
1:I:314:ARG:HB2	1:I:318:ARG:HH12	1.72	0.55
1:I:528:ASP:HB2	4:L:74:GLY:H	1.71	0.55
1:I:529:ASP:N	4:L:50:THR:HB	2.22	0.55
3:K:144:VAL:HB	3:K:151:MET:HG3	1.89	0.55
4:L:210:ILE:HG21	4:L:402:GLU:HG3	1.89	0.55
5:M:232:LYS:HG3	5:M:324:TRP:HB3	1.87	0.55
5:M:329:GLU:HA	5:M:332:LEU:HB3	1.88	0.55
5:M:398:ALA:O	5:M:402:LEU:N	2.27	0.55
7:O:21:GLN:O	7:O:25:ASN:N	2.33	0.55
8:P:56:VAL:O	8:P:64:PHE:N	2.39	0.55
8:P:135:ALA:O	8:P:139:ALA:N	2.35	0.55
8:P:475:ASN:HB3	8:P:493:LEU:HD23	1.87	0.55
12:4:46:GLN:HB2	12:4:94:LEU:HD21	1.88	0.55
1:A:107:LEU:HD22	1:A:436:LEU:HD21	1.87	0.55
1:A:417:ALA:HA	1:A:446:LEU:HD21	1.89	0.55
2:B:190:LEU:HD22	2:B:195:ASN:HB2	1.88	0.55
3:C:44:LYS:HA	6:F:117:ARG:HH21	1.72	0.55
3:C:180:VAL:HG13	3:C:196:LYS:HA	1.89	0.55
4:D:30:PRO:O	4:D:34:ARG:N	2.26	0.55
4:D:342:THR:HG23	4:D:357:GLY:H	1.70	0.55
5:E:35:LYS:O	5:E:38:ILE:HG22	2.07	0.55
6:F:175:SER:HA	6:F:208:ARG:HH12	1.72	0.55
7:G:246:LEU:H	7:G:296:GLY:HA3	1.71	0.55
7:G:498:VAL:HA	7:G:501:ASN:HB2	1.87	0.55
8:H:93:GLN:O	8:H:97:VAL:N	2.40	0.55
8:H:461:ASN:HA	8:H:464:ILE:HG22	1.89	0.55
1:I:275:ILE:HD12	1:I:276:GLN:HG3	1.87	0.55
3:K:143:PRO:HA	3:K:406:GLN:HA	1.87	0.55
3:K:245:LEU:HA	3:K:278:LEU:HB3	1.88	0.55
4:L:194:VAL:HG22	4:L:384:LYS:HA	1.89	0.55
6:N:40:PRO:HD3	6:N:157:ARG:HG2	1.88	0.55
6:N:313:LEU:HD21	6:N:361:THR:HG21	1.87	0.55
6:N:408:VAL:HG11	6:N:501:LYS:HG3	1.89	0.55
8:P:417:ILE:HG21	8:P:467:LEU:HB3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:510:LEU:HA	8:P:513:ASN:HB2	1.89	0.55
9:1:27:VAL:HB	9:1:101:LEU:HB3	1.89	0.55
14:6:86:GLU:HA	14:6:89:ARG:HG2	1.89	0.55
1:A:115:THR:HG21	4:D:468:ASN:O	2.07	0.55
2:B:110:LEU:O	2:B:114:GLU:HG3	2.06	0.55
2:B:291:ILE:HG13	2:B:323:LEU:HD21	1.89	0.55
5:E:52:LEU:O	5:E:465:ASN:ND2	2.39	0.55
5:E:59:LYS:NZ	5:E:72:ASN:HA	2.22	0.55
5:E:215:VAL:HG12	5:E:216:GLY:H	1.71	0.55
5:E:259:LYS:NZ	5:E:307:ASP:OD1	2.34	0.55
6:F:97:LEU:HD12	6:F:447:ILE:HG12	1.89	0.55
6:F:327:ALA:HA	6:F:368:ASN:HB2	1.89	0.55
6:F:430:LYS:HE2	6:F:432:ARG:HD3	1.89	0.55
7:G:259:THR:HG23	7:G:261:GLU:H	1.72	0.55
7:G:349:GLU:O	7:G:360:PHE:N	2.32	0.55
8:H:48:GLY:C	8:H:170:SER:HA	2.27	0.55
1:I:446:LEU:HD22	1:I:468:ARG:HH21	1.72	0.55
2:J:437:GLU:O	2:J:441:LYS:N	2.35	0.55
5:M:535:LYS:NZ	7:O:50:VAL:HG21	2.22	0.55
7:O:142:THR:HA	7:O:403:ASP:O	2.07	0.55
8:P:475:ASN:OD1	8:P:476:LYS:HD2	2.06	0.55
1:A:213:GLY:HA3	1:A:364:ILE:O	2.07	0.55
2:B:206:GLY:HA3	2:B:356:GLU:HG2	1.87	0.55
3:C:74:HIS:HD2	3:C:75:PRO:HD2	1.71	0.55
3:C:218:VAL:HG13	3:C:373:THR:HG21	1.87	0.55
5:E:30:GLY:O	5:E:34:LEU:N	2.26	0.55
6:F:189:PHE:HD1	6:F:323:ARG:NH1	2.05	0.55
6:F:274:ILE:O	6:F:278:LYS:N	2.38	0.55
8:H:304:TYR:HD1	8:H:307:LYS:HD2	1.72	0.55
1:I:138:VAL:HB	1:I:410:PRO:HG3	1.87	0.55
2:J:186:ALA:HA	2:J:189:ARG:HE	1.71	0.55
2:J:416:LEU:HD21	2:J:474:THR:HG22	1.88	0.55
3:K:283:ILE:HD11	3:K:303:TYR:HB3	1.88	0.55
5:M:480:ARG:HA	5:M:483:LYS:HE2	1.87	0.55
7:O:131:LEU:HB3	7:O:419:TYR:HE2	1.70	0.55
7:O:486:ASP:O	7:O:490:ALA:N	2.34	0.55
9:1:76:ILE:O	9:1:80:LEU:N	2.31	0.55
1:A:199:LYS:HG2	1:A:377:LEU:HB2	1.88	0.55
3:C:288:ASP:O	3:C:310:THR:N	2.40	0.55
3:C:415:GLU:HG3	3:C:447:ILE:HB	1.89	0.55
4:D:277:ARG:NE	12:4:56:ASP:OD1	2.24	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:130:PRO:O	5:E:528:LEU:HD21	2.07	0.55
6:F:133:PHE:CD2	6:F:418:MET:HG2	2.41	0.55
8:H:283:ILE:HA	8:H:286:THR:HG22	1.87	0.55
1:I:70:PRO:HA	1:I:73:LYS:HB3	1.88	0.55
2:J:476:ALA:HA	2:J:487:ASP:HA	1.89	0.55
4:L:170:SER:O	4:L:174:LYS:HG2	2.07	0.55
4:L:218:ILE:HG13	4:L:397:VAL:HG13	1.88	0.55
4:L:256:PRO:HG2	4:L:278:GLU:HG2	1.88	0.55
4:L:299:LEU:HD12	4:L:336:ILE:HG21	1.89	0.55
4:L:422:ILE:HD11	4:L:510:GLN:HE21	1.72	0.55
11:3:49:VAL:HG13	11:3:52:LYS:H	1.71	0.55
11:3:111:LEU:HD11	13:5:82:VAL:HG12	1.89	0.55
1:A:136:LEU:HD13	1:A:407:SER:HB3	1.88	0.54
1:A:175:ALA:HA	1:A:179:ILE:HG23	1.89	0.54
2:B:419:HIS:CE1	2:B:466:ARG:HA	2.40	0.54
3:C:230:ARG:N	9:1:118:ALA:HB1	2.19	0.54
3:C:315:VAL:HG23	3:C:320:ASN:HD21	1.72	0.54
4:D:193:LYS:NZ	4:D:223:LEU:HB3	2.22	0.54
4:D:233:VAL:HG11	4:D:326:LYS:HE3	1.89	0.54
4:D:235:ASN:OD1	4:D:318:ASN:HB2	2.06	0.54
4:D:431:GLU:HG2	4:D:484:HIS:HB3	1.89	0.54
5:E:423:GLY:CA	5:E:491:ILE:HG12	2.37	0.54
8:H:235:LYS:HD3	8:H:351:TYR:CD1	2.41	0.54
8:H:281:LYS:O	8:H:285:ASP:N	2.40	0.54
1:I:216:LEU:HD21	1:I:311:VAL:HB	1.88	0.54
1:I:529:ASP:H	4:L:50:THR:HB	1.72	0.54
2:J:323:LEU:O	2:J:327:THR:N	2.32	0.54
3:K:51:LEU:HB2	6:N:521:ILE:HD11	1.89	0.54
4:L:255:ALA:HB2	4:L:283:ILE:HG13	1.89	0.54
5:M:33:ALA:HA	5:M:36:SER:HB2	1.89	0.54
5:M:176:LYS:HB2	5:M:401:SER:HB2	1.89	0.54
5:M:336:ALA:HA	5:M:381:ARG:HB2	1.89	0.54
5:M:525:ARG:HA	5:M:528:LEU:HD12	1.89	0.54
6:N:113:GLY:O	6:N:114:LEU:HG	2.06	0.54
6:N:317:LYS:O	6:N:321:MET:N	2.40	0.54
6:N:387:ILE:O	6:N:391:VAL:HG23	2.07	0.54
7:O:518:GLU:OE1	8:P:42:THR:HG22	2.07	0.54
8:P:52:MET:HG2	8:P:455:ASN:HD21	1.72	0.54
14:6:30:ARG:HE	14:6:87:ILE:HG23	1.70	0.54
1:A:467:LEU:O	1:A:485:TRP:NE1	2.41	0.54
1:A:475:GLN:O	1:A:484:LYS:HB3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:245:LEU:HD23	3:C:300:ALA:HB1	1.90	0.54
3:C:452:ILE:HG12	3:C:462:LEU:HD12	1.90	0.54
5:E:145:ILE:O	5:E:149:ASP:N	2.38	0.54
6:F:466:ILE:HG12	6:F:470:HIS:CD2	2.42	0.54
7:G:398:ARG:HG2	7:G:495:PRO:HG2	1.90	0.54
8:H:73:LEU:HD13	8:H:87:VAL:HG12	1.88	0.54
8:H:163:LEU:HD21	8:H:399:PHE:HA	1.90	0.54
8:H:203:ARG:O	8:H:374:THR:HG23	2.08	0.54
1:I:192:VAL:HG21	1:I:396:LEU:HB3	1.90	0.54
2:J:121:ILE:HD13	2:J:434:VAL:HG11	1.88	0.54
5:M:50:THR:HA	5:M:465:ASN:OD1	2.07	0.54
6:N:78:ALA:O	6:N:82:THR:N	2.40	0.54
6:N:353:TYR:CE2	6:N:355:LEU:HB2	2.41	0.54
8:P:166:THR:HA	8:P:169:MET:HG3	1.89	0.54
13:5:22:LEU:HD13	13:5:127:MET:HG3	1.89	0.54
1:A:63:LYS:HG2	1:A:76:CYS:SG	2.47	0.54
3:C:376:LEU:HD21	3:C:391:LEU:HD22	1.88	0.54
3:C:412:GLY:HA2	3:C:415:GLU:HG2	1.89	0.54
4:D:297:VAL:HG22	4:D:323:MET:HE2	1.87	0.54
4:D:430:ILE:HG21	4:D:480:LEU:HB3	1.89	0.54
5:E:113:ALA:HB2	5:E:520:ALA:HA	1.88	0.54
6:F:39:GLY:H	6:F:158:THR:HG23	1.72	0.54
7:G:288:VAL:HG11	7:G:361:PHE:CZ	2.41	0.54
8:H:197:PHE:HD2	8:H:400:LYS:HE2	1.72	0.54
8:H:366:GLU:HA	8:H:371:ALA:HA	1.89	0.54
2:J:290:PHE:O	2:J:312:ILE:N	2.35	0.54
3:K:388:GLU:HA	3:K:391:LEU:HD12	1.89	0.54
3:K:491:LYS:HG3	3:K:496:TRP:CZ2	2.43	0.54
5:M:262:THR:OG1	7:O:247:LYS:HB2	2.08	0.54
6:N:240:GLU:HB2	6:N:266:PHE:HD1	1.73	0.54
8:P:158:ASP:O	8:P:161:SER:OG	2.21	0.54
8:P:462:GLU:HG3	8:P:466:LYS:NZ	2.22	0.54
14:6:45:GLU:O	14:6:49:LEU:N	2.34	0.54
1:A:189:ARG:HG2	1:A:190:TYR:CD2	2.42	0.54
1:A:217:ASN:HA	1:A:361:LEU:HD22	1.88	0.54
1:A:235:ALA:HB2	1:A:345:LEU:HD22	1.89	0.54
2:B:429:PRO:O	2:J:464:GLN:HG2	2.07	0.54
3:C:334:ARG:HE	3:C:337:GLU:HB3	1.72	0.54
3:C:464:THR:HG21	8:P:432:GLY:N	2.22	0.54
5:E:48:MET:HG3	5:E:110:VAL:HB	1.89	0.54
5:E:432:ALA:O	5:E:436:GLU:N	2.32	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:36:THR:HG22	6:F:451:LEU:HD23	1.89	0.54
7:G:188:ASP:OD1	7:G:189:LEU:N	2.35	0.54
8:H:225:LYS:NZ	8:H:320:ASP:OD2	2.32	0.54
8:H:234:VAL:HG22	8:H:289:ASN:ND2	2.21	0.54
1:I:138:VAL:HG11	1:I:487:GLY:HA3	1.89	0.54
1:I:430:MET:HB3	1:I:434:GLU:HB2	1.90	0.54
2:J:226:VAL:HG12	2:J:227:ASN:H	1.72	0.54
3:K:100:ILE:O	3:K:104:GLU:HB2	2.08	0.54
3:K:218:VAL:HA	3:K:373:THR:N	2.23	0.54
4:L:33:ILE:HA	4:L:36:SER:HB2	1.90	0.54
4:L:134:SER:O	4:L:527:ARG:NH2	2.41	0.54
4:L:147:ILE:HD11	4:L:439:TYR:CE2	2.42	0.54
5:M:228:VAL:HG23	5:M:374:ILE:HB	1.89	0.54
5:M:305:GLY:HA2	5:M:323:ARG:O	2.08	0.54
7:O:117:HIS:ND1	7:O:121:ILE:HB	2.22	0.54
7:O:521:LYS:HG2	7:O:523:PRO:HD2	1.89	0.54
8:P:348:ASP:OD2	8:P:366:GLU:N	2.40	0.54
11:3:162:LEU:HA	11:3:165:LEU:HB2	1.88	0.54
12:4:61:ASP:HA	12:4:64:CYS:SG	2.47	0.54
14:6:110:GLN:O	14:6:114:GLU:N	2.38	0.54
1:A:182:THR:HG23	1:A:214:TYR:OH	2.07	0.54
2:B:182:LEU:HD13	2:B:373:ILE:HD11	1.88	0.54
4:D:99:ASP:O	4:D:103:GLY:N	2.32	0.54
5:E:235:SER:HB3	5:E:312:HIS:HB3	1.90	0.54
1:I:70:PRO:O	1:I:74:VAL:N	2.35	0.54
1:I:409:VAL:HG21	1:I:510:LYS:HE2	1.89	0.54
3:K:241:LEU:HD21	3:K:292:THR:HG23	1.89	0.54
3:K:423:THR:HG23	3:K:438:ARG:HE	1.71	0.54
4:L:220:ASP:O	4:L:391:ARG:HD2	2.08	0.54
4:L:390:VAL:HG11	4:L:402:GLU:HB2	1.90	0.54
5:M:426:GLU:HA	5:M:429:CYS:HB2	1.88	0.54
6:N:469:GLU:O	6:N:475:GLN:HB3	2.07	0.54
7:O:48:LEU:HD11	7:O:56:ALA:HB1	1.89	0.54
8:P:97:VAL:HG22	8:P:401:VAL:HG21	1.89	0.54
1:A:29:ALA:O	1:A:33:LYS:HG3	2.07	0.54
2:B:155:PHE:HA	2:B:158:ASP:HB3	1.89	0.54
2:B:187:VAL:HG11	2:B:397:LEU:HB3	1.89	0.54
3:C:353:LYS:O	3:C:360:PHE:N	2.39	0.54
4:D:390:VAL:HG12	4:D:398:ILE:HG23	1.90	0.54
5:E:188:ILE:HG23	5:E:224:LEU:HB2	1.88	0.54
5:E:226:LYS:HA	5:E:383:VAL:HG13	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:434:SER:OG	5:E:452:ALA:HB3	2.06	0.54
5:E:501:MET:HG3	5:E:506:VAL:O	2.07	0.54
6:F:319:ARG:HG3	6:F:320:ASN:H	1.73	0.54
7:G:155:LEU:HA	7:G:396:VAL:HB	1.88	0.54
7:G:235:PRO:O	7:G:344:ARG:HA	2.08	0.54
7:G:245:GLU:HA	7:G:296:GLY:H	1.72	0.54
7:G:302:TYR:O	7:G:306:ARG:N	2.41	0.54
7:G:331:GLN:HE22	7:G:342:LEU:HD23	1.72	0.54
7:G:520:ILE:HB	8:H:56:VAL:HA	1.88	0.54
8:H:135:ALA:HA	8:H:138:LYS:HB3	1.89	0.54
8:H:206:LYS:HB2	8:H:385:MET:SD	2.48	0.54
8:H:223:PHE:N	8:H:361:VAL:O	2.37	0.54
8:H:461:ASN:OD1	3:K:432:VAL:HA	2.08	0.54
3:K:118:HIS:CD2	3:K:121:VAL:HB	2.43	0.54
3:K:146:ILE:HG22	3:K:401:VAL:O	2.08	0.54
3:K:408:VAL:HG22	3:K:497:GLU:O	2.08	0.54
4:L:71:THR:HG22	4:L:80:GLN:HE22	1.72	0.54
4:L:129:HIS:CD2	4:L:131:THR:H	2.26	0.54
4:L:223:LEU:HA	4:L:388:ILE:HA	1.89	0.54
4:L:247:GLY:CA	4:L:356:LEU:HD22	2.38	0.54
4:L:290:ILE:HG13	4:L:348:ILE:HG12	1.90	0.54
5:M:306:PHE:HE2	5:M:321:ALA:HB3	1.71	0.54
13:5:27:GLU:HA	13:5:30:SER:HB3	1.89	0.54
2:B:416:LEU:HD12	2:B:474:THR:OG1	2.07	0.54
3:C:322:ARG:O	3:C:326:ALA:N	2.41	0.54
3:C:466:LEU:HD12	3:C:469:LYS:HB2	1.90	0.54
3:C:469:LYS:O	3:C:473:GLU:HB2	2.08	0.54
4:D:234:SER:HB3	4:D:237:GLY:HA3	1.89	0.54
4:D:332:ASP:O	4:D:336:ILE:N	2.39	0.54
5:E:303:GLN:HB2	5:E:330:ILE:HD13	1.89	0.54
5:E:480:ARG:HD3	5:E:489:LEU:CD1	2.37	0.54
5:E:536:PRO:HD3	7:G:69:LEU:HD11	1.89	0.54
7:G:216:PHE:HD2	7:G:359:ASN:HD22	1.55	0.54
8:H:233:SER:H	8:H:289:ASN:HB3	1.72	0.54
2:J:464:GLN:O	2:J:468:ALA:N	2.25	0.54
5:M:438:ASP:HA	5:M:445:GLN:HG3	1.90	0.54
7:O:100:LEU:HD23	7:O:506:ALA:HB3	1.90	0.54
8:P:459:LYS:HG3	8:P:462:GLU:H	1.73	0.54
8:P:509:LYS:HG2	8:P:513:ASN:ND2	2.23	0.54
11:3:109:ASP:HB2	13:5:42:LYS:HB2	1.90	0.54
12:4:45:LYS:HA	12:4:48:GLN:HB3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:5:133:GLU:O	13:5:137:GLN:N	2.41	0.54
1:A:13:THR:N	1:A:16:THR:OG1	2.40	0.54
5:E:151:ILE:HG12	5:E:486:ASN:HB3	1.90	0.54
6:F:452:ALA:O	6:F:456:GLY:N	2.41	0.54
8:H:228:GLU:CG	8:H:314:ARG:HB3	2.38	0.54
8:H:239:ILE:HB	8:H:328:VAL:HG11	1.89	0.54
1:I:41:LEU:O	1:I:43:LYS:NZ	2.38	0.54
3:K:200:ARG:HD2	3:K:371:ALA:HB1	1.90	0.54
3:K:230:ARG:NH1	3:K:233:ILE:O	2.41	0.54
3:K:260:ARG:HG2	3:K:262:GLU:H	1.72	0.54
3:K:381:LYS:O	3:K:384:LEU:HB3	2.08	0.54
4:L:33:ILE:HD13	4:L:535:VAL:HG13	1.90	0.54
4:L:153:ARG:NH2	4:L:502:ASN:HD22	2.05	0.54
7:O:165:SER:OG	7:O:391:ASP:OD2	2.23	0.54
7:O:200:VAL:HG12	7:O:358:TYR:CZ	2.43	0.54
11:3:111:LEU:HB2	13:5:46:ALA:HB1	1.90	0.54
2:B:465:LEU:HD12	2:B:468:ALA:HB3	1.90	0.54
4:D:63:ASP:OD2	4:D:65:LYS:NZ	2.41	0.54
5:E:205:ASP:H	5:E:208:LEU:HD12	1.71	0.54
5:E:258:PRO:HB2	7:G:267:VAL:HG11	1.90	0.54
6:F:137:VAL:HG13	6:F:501:LYS:NZ	2.23	0.54
8:H:28:ALA:HA	8:H:32:ASN:OD1	2.08	0.54
4:L:247:GLY:O	4:L:299:LEU:N	2.36	0.54
5:M:140:ALA:HB2	5:M:448:MET:HB3	1.90	0.54
5:M:209:ILE:HD13	5:M:406:LEU:HD11	1.89	0.54
5:M:306:PHE:CE2	5:M:321:ALA:HB3	2.43	0.54
5:M:339:GLY:HA3	5:M:354:GLY:HA2	1.89	0.54
6:N:201:GLU:HA	6:N:379:PRO:HD2	1.90	0.54
6:N:278:LYS:HZ2	6:N:289:PHE:H	1.55	0.54
7:O:398:ARG:HA	7:O:401:LYS:HB3	1.89	0.54
7:O:472:GLY:HA3	7:O:475:TYR:CE2	2.43	0.54
8:P:436:TYR:O	8:P:440:LYS:HG2	2.07	0.54
1:A:77:GLU:O	1:A:81:LEU:N	2.36	0.54
1:A:171:MET:O	1:A:175:ALA:N	2.40	0.54
2:B:403:ASP:HB3	2:B:405:ARG:HD3	1.89	0.54
6:F:189:PHE:HB2	6:F:370:ARG:CZ	2.37	0.54
8:H:192:PRO:HD3	8:H:368:GLU:HG3	1.90	0.54
8:H:349:SER:HB3	8:H:351:TYR:CZ	2.43	0.54
2:J:166:THR:OG1	2:J:495:GLU:OE2	2.26	0.54
3:K:49:MET:O	6:N:521:ILE:HA	2.08	0.54
6:N:231:LEU:HD11	6:N:333:LEU:HD23	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:135:LYS:HA	7:O:138:GLU:HB2	1.90	0.54
7:O:431:GLN:HE21	7:O:435:ILE:HD11	1.73	0.54
8:P:401:VAL:HG22	8:P:404:ARG:NH2	2.23	0.54
11:3:96:GLU:HG2	11:3:97:SER:H	1.73	0.54
3:C:302:HIS:O	3:C:306:ARG:HG3	2.08	0.53
4:D:266:VAL:HG23	14:6:89:ARG:HD2	1.90	0.53
7:G:171:GLN:NE2	7:G:206:GLU:HG3	2.23	0.53
7:G:258:HIS:ND1	7:G:262:ASP:OD2	2.41	0.53
8:H:209:GLY:O	8:H:379:GLY:N	2.40	0.53
8:H:232:THR:HG21	8:H:350:VAL:HG12	1.90	0.53
1:I:392:LEU:O	1:I:396:LEU:N	2.41	0.53
2:J:107:ALA:HA	2:J:110:LEU:HD12	1.89	0.53
2:J:220:LEU:HD11	2:J:314:HIS:CD2	2.44	0.53
3:K:296:ILE:HG12	3:K:313:ARG:HD3	1.89	0.53
6:N:138:LYS:HE2	6:N:498:TYR:CE1	2.44	0.53
6:N:174:ASP:O	6:N:208:ARG:NH2	2.29	0.53
7:O:247:LYS:HD3	7:O:270:GLU:CB	2.39	0.53
9:1:57:GLU:HG3	9:1:59:ASN:N	2.20	0.53
1:A:78:LEU:HD22	1:A:520:ALA:HB2	1.90	0.53
2:B:127:ILE:HG23	2:B:512:GLU:HB3	1.90	0.53
2:B:319:GLY:HA2	2:B:322:ARG:HB2	1.91	0.53
4:D:302:LYS:HA	4:D:327:ASP:HA	1.90	0.53
5:E:115:ALA:O	5:E:118:GLU:N	2.40	0.53
5:E:524:VAL:O	5:E:528:LEU:HD13	2.08	0.53
6:F:92:THR:OG1	6:F:93:THR:N	2.41	0.53
7:G:394:MET:O	7:G:398:ARG:NH1	2.41	0.53
7:G:488:PHE:O	7:G:493:TRP:NE1	2.28	0.53
1:I:498:ASN:O	1:I:504:PHE:HE2	1.90	0.53
3:K:38:ARG:NH1	3:K:104:GLU:OE1	2.40	0.53
4:L:205:LEU:HD11	4:L:410:CYS:SG	2.48	0.53
5:M:364:PHE:HB3	5:M:388:ARG:CZ	2.38	0.53
6:N:46:MET:HA	6:N:56:LEU:HD23	1.90	0.53
6:N:230:ILE:HG12	6:N:290:VAL:HB	1.89	0.53
6:N:404:ASP:HB3	6:N:406:CYS:O	2.08	0.53
1:A:135:ASN:HD21	1:A:415:VAL:CG1	2.22	0.53
2:B:429:PRO:HA	2:B:433:ALA:HB2	1.91	0.53
3:C:175:ILE:HG22	3:C:374:ILE:HG12	1.90	0.53
3:C:304:LEU:HD13	3:C:311:ALA:HB2	1.91	0.53
3:C:484:THR:HB	3:C:493:LEU:HD21	1.90	0.53
4:D:160:ARG:HE	4:D:189:ASN:HA	1.74	0.53
6:F:41:LYS:HB3	6:F:451:LEU:HD22	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:151:VAL:HA	6:F:154:THR:HG22	1.91	0.53
8:H:250:ILE:HA	8:H:268:PHE:CD2	2.43	0.53
2:J:90:VAL:O	2:J:94:GLU:N	2.40	0.53
2:J:451:ALA:HB3	2:J:458:SER:OG	2.08	0.53
3:K:240:LEU:HD11	3:K:317:LYS:HE2	1.90	0.53
5:M:102:ILE:HA	5:M:411:ASN:OD1	2.09	0.53
6:N:488:VAL:HG13	6:N:491:GLU:HB3	1.89	0.53
8:P:118:LEU:HA	8:P:121:ILE:HB	1.90	0.53
10:2:42:SER:HG	10:2:109:GLN:HE21	1.50	0.53
12:4:68:PRO:HA	12:4:76:ILE:O	2.08	0.53
14:6:65:VAL:HG12	14:6:67:GLN:HE21	1.73	0.53
1:A:18:ARG:HA	1:A:21:ASN:HB2	1.89	0.53
1:A:150:ASN:OD1	1:A:154:THR:OG1	2.27	0.53
2:B:241:ASN:OD1	2:B:331:ILE:HD11	2.08	0.53
2:B:280:GLU:HA	2:B:283:LEU:HB3	1.90	0.53
3:C:196:LYS:CB	3:C:399:ARG:HD2	2.38	0.53
4:D:78:LEU:O	4:D:82:GLN:HB3	2.09	0.53
5:E:98:GLN:HB2	5:E:519:LEU:CD1	2.38	0.53
5:E:341:ILE:HB	7:G:301:GLN:HE22	1.73	0.53
7:G:111:TYR:O	7:G:115:GLY:N	2.42	0.53
8:H:57:ILE:HA	8:H:62:LYS:O	2.09	0.53
1:I:1:MET:HG2	1:I:20:GLN:HE22	1.73	0.53
1:I:13:THR:HG22	1:I:14:GLY:H	1.73	0.53
1:I:151:ALA:HA	1:I:500:GLN:HB3	1.88	0.53
2:J:400:THR:HA	2:J:403:ASP:O	2.09	0.53
2:J:517:VAL:HA	5:M:58:ASP:O	2.08	0.53
2:J:518:ASP:HB2	5:M:59:LYS:HE3	1.90	0.53
4:L:243:LYS:N	4:L:360:GLU:O	2.39	0.53
5:M:86:GLN:HE21	7:O:48:LEU:HD21	1.72	0.53
7:O:123:ARG:HH21	8:P:173:TYR:HE1	1.56	0.53
2:B:42:THR:HG22	2:B:49:ASP:HA	1.91	0.53
2:B:127:ILE:HG22	2:B:131:ARG:NE	2.23	0.53
3:C:156:ILE:HG22	3:C:160:ILE:HD13	1.91	0.53
4:D:169:THR:HG21	4:D:507:LEU:HD12	1.89	0.53
5:E:331:GLU:HA	5:E:341:ILE:HD11	1.90	0.53
7:G:244:LEU:HD22	7:G:278:LEU:HB3	1.91	0.53
8:H:228:GLU:HG2	8:H:314:ARG:HB3	1.89	0.53
1:I:131:TYR:CG	1:I:419:LEU:HD21	2.44	0.53
4:L:81:MET:HG2	4:L:83:VAL:HG13	1.90	0.53
4:L:231:GLN:HG3	4:L:328:ILE:HD11	1.90	0.53
4:L:293:THR:HA	4:L:351:PHE:CZ	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:464:THR:HG23	4:L:467:GLU:OE1	2.09	0.53
5:M:249:ALA:HB3	5:M:300:ALA:HA	1.89	0.53
7:O:413:GLU:HA	7:O:416:LEU:HD12	1.91	0.53
10:2:57:VAL:HG22	11:3:128:GLY:HA3	1.90	0.53
11:3:173:GLU:O	11:3:177:ALA:N	2.39	0.53
1:A:101:LEU:O	1:A:105:ASP:N	2.42	0.53
1:A:450:ASN:O	1:A:460:SER:OG	2.23	0.53
2:B:239:ILE:HB	2:B:330:GLU:O	2.08	0.53
4:D:52:LEU:HD22	4:D:111:ILE:HG13	1.89	0.53
5:E:138:GLU:OE1	5:E:525:ARG:NH2	2.41	0.53
6:F:179:ILE:HG12	6:F:187:ASP:OD1	2.08	0.53
6:F:279:ARG:HD3	6:F:283:GLY:HA2	1.89	0.53
7:G:414:MET:HB2	7:G:468:HIS:ND1	2.23	0.53
7:G:418:LYS:NZ	7:G:469:ALA:HA	2.24	0.53
8:H:210:SER:HB2	8:H:378:ARG:HB3	1.91	0.53
3:K:218:VAL:HG21	3:K:371:ALA:HB3	1.90	0.53
3:K:375:LEU:HD11	3:K:377:ARG:NH1	2.23	0.53
3:K:412:GLY:N	3:K:497:GLU:OE2	2.42	0.53
3:K:423:THR:HA	3:K:426:SER:HB3	1.91	0.53
5:M:38:ILE:HG13	5:M:117:LEU:HB3	1.91	0.53
5:M:151:ILE:HG13	5:M:419:VAL:HG23	1.90	0.53
6:N:217:ARG:HB2	6:N:359:LYS:NZ	2.23	0.53
6:N:313:LEU:CD2	6:N:361:THR:HG21	2.39	0.53
7:O:448:GLN:O	7:O:452:ASN:ND2	2.42	0.53
9:1:66:ARG:HB3	13:5:65:PRO:HD3	1.90	0.53
1:A:176:VAL:HG11	1:A:396:LEU:HA	1.89	0.53
2:B:408:TYR:HD2	2:B:474:THR:HG22	1.74	0.53
2:B:458:SER:O	2:B:462:VAL:N	2.21	0.53
3:C:233:ILE:N	3:C:350:LEU:O	2.33	0.53
3:C:263:ASP:OD1	3:C:266:ARG:NH2	2.42	0.53
3:C:290:VAL:N	3:C:310:THR:O	2.41	0.53
4:D:418:LYS:HB3	4:D:512:LEU:HB2	1.91	0.53
5:E:359:VAL:HG13	5:E:374:ILE:HG13	1.90	0.53
7:G:245:GLU:HA	7:G:296:GLY:N	2.24	0.53
7:G:351:THR:O	7:G:358:TYR:HB3	2.09	0.53
7:G:425:ARG:HH21	1:I:471:HIS:C	2.12	0.53
7:G:491:PHE:HA	7:G:493:TRP:CE2	2.43	0.53
8:H:254:LYS:NZ	8:H:259:ILE:O	2.37	0.53
8:H:502:LEU:HD11	8:H:506:TRP:HE1	1.74	0.53
1:I:424:GLU:HG3	1:I:442:ALA:HB3	1.91	0.53
5:M:517:ILE:O	5:M:521:THR:HG22	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:278:LYS:HG3	6:N:289:PHE:HB2	1.91	0.53
7:O:48:LEU:HD13	7:O:58:ILE:HG13	1.90	0.53
7:O:136:ILE:HG21	7:O:499:ARG:HB2	1.91	0.53
7:O:232:TYR:HB2	7:O:348:PHE:HB3	1.91	0.53
7:O:422:ASP:O	7:O:426:THR:N	2.42	0.53
8:P:43:THR:O	8:P:47:TYR:N	2.40	0.53
8:P:172:GLN:NE2	8:P:175:ASN:O	2.42	0.53
8:P:237:ALA:HB2	8:P:350:VAL:N	2.23	0.53
8:P:250:ILE:HA	8:P:336:LEU:HB3	1.91	0.53
8:P:269:SER:HA	8:P:300:MET:HG3	1.91	0.53
10:2:96:GLN:HA	10:2:99:LYS:HE2	1.91	0.53
3:C:217:GLY:HA3	3:C:326:ALA:O	2.08	0.53
6:F:118:ILE:HD11	6:F:432:ARG:HB3	1.91	0.53
6:F:224:ARG:NE	6:F:351:TYR:HB2	2.22	0.53
8:H:401:VAL:HG21	8:H:406:LYS:HD3	1.89	0.53
1:I:106:GLU:OE2	4:L:472:ASN:ND2	2.41	0.53
1:I:198:LEU:HD13	1:I:217:ASN:HB2	1.90	0.53
2:J:415:MET:HB3	2:J:466:ARG:HA	1.91	0.53
2:J:473:ASN:HB3	2:J:476:ALA:HB3	1.91	0.53
3:K:376:LEU:HB2	3:K:387:VAL:HG11	1.90	0.53
4:L:33:ILE:HB	4:L:535:VAL:HG13	1.89	0.53
6:N:130:ALA:HA	6:N:133:PHE:HB2	1.91	0.53
6:N:207:ILE:HB	6:N:362:PHE:CE1	2.38	0.53
7:O:171:GLN:NE2	7:O:206:GLU:HG2	2.23	0.53
7:O:523:PRO:HD3	8:P:58:ASN:O	2.08	0.53
8:P:186:ALA:HB1	8:P:202:ILE:HG12	1.91	0.53
8:P:221:MET:H	8:P:363:PHE:HB2	1.73	0.53
9:1:39:ARG:O	9:1:43:HIS:N	2.34	0.53
14:6:26:SER:HB2	14:6:90:TYR:HD1	1.74	0.53
14:6:79:ARG:O	14:6:83:ILE:HG12	2.09	0.53
1:A:196:ASN:HD22	1:A:214:TYR:HB3	1.73	0.53
2:B:456:TYR:CE2	2:B:483:GLY:HA3	2.43	0.53
3:C:106:LEU:HD21	3:C:517:LEU:HB2	1.90	0.53
5:E:182:HIS:CE1	5:E:220:GLU:HG2	2.44	0.53
5:E:423:GLY:HA3	5:E:491:ILE:HG12	1.89	0.53
5:E:461:ALA:O	5:E:464:GLU:HB3	2.08	0.53
6:F:141:ARG:HB2	6:F:407:VAL:HB	1.89	0.53
6:F:228:ALA:O	6:F:346:HIS:HA	2.07	0.53
6:F:476:LEU:O	6:F:488:VAL:HG13	2.09	0.53
8:H:52:MET:HB3	8:H:54:LYS:HZ2	1.74	0.53
8:H:386:ASP:OD1	8:H:387:ASP:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:475:ASN:ND2	8:H:491:ASP:OD1	2.41	0.53
4:L:218:ILE:HG23	4:L:401:ALA:HB2	1.90	0.53
4:L:246:ILE:O	4:L:336:ILE:HD11	2.08	0.53
6:N:144:ASP:O	6:N:148:LEU:HG	2.09	0.53
6:N:509:THR:HA	6:N:512:ALA:HB3	1.91	0.53
7:O:74:PRO:HB3	8:P:63:LEU:HD22	1.91	0.53
7:O:209:GLN:N	7:O:373:ILE:O	2.40	0.53
7:O:414:MET:HE1	7:O:464:LEU:HD13	1.90	0.53
7:O:431:GLN:HA	7:O:434:LEU:HD13	1.91	0.53
8:P:218:LEU:O	8:P:374:THR:OG1	2.22	0.53
12:4:40:ILE:HG23	12:4:98:ILE:HG23	1.91	0.53
1:A:145:ARG:HA	1:A:504:PHE:HB2	1.90	0.53
1:A:181:TYR:HB3	1:A:191:PRO:HB3	1.91	0.53
1:A:201:HIS:CG	1:A:382:ASP:HA	2.44	0.53
1:A:276:GLN:O	1:A:280:ALA:N	2.23	0.53
1:A:357:CYS:SG	1:A:378:ARG:HG2	2.49	0.53
2:B:109:LEU:O	2:B:113:ALA:N	2.38	0.53
2:B:375:LEU:HD22	2:B:387:GLU:HB2	1.90	0.53
3:C:289:VAL:HG11	3:C:350:LEU:HD22	1.91	0.53
4:D:287:VAL:HG11	4:D:317:LEU:HA	1.91	0.53
4:D:325:ILE:HG23	4:D:374:LEU:HD13	1.91	0.53
4:D:418:LYS:HG3	4:D:513:LEU:H	1.73	0.53
5:E:144:ALA:HB2	5:E:433:VAL:HG21	1.91	0.53
5:E:251:LEU:HD12	5:E:255:PHE:HB2	1.90	0.53
6:F:138:LYS:HA	6:F:408:VAL:HG11	1.91	0.53
7:G:26:ILE:HG23	7:G:105:LEU:HB3	1.91	0.53
7:G:120:ILE:HG21	7:G:430:LYS:HD2	1.91	0.53
7:G:163:LEU:HB3	7:G:172:LYS:HG2	1.90	0.53
8:H:395:GLY:HA2	8:H:398:THR:OG1	2.09	0.53
1:I:383:PHE:O	1:I:387:GLU:N	2.30	0.53
3:K:275:ILE:HA	3:K:278:LEU:HD12	1.91	0.53
4:L:286:LEU:HD22	4:L:348:ILE:HG23	1.90	0.53
6:N:275:ILE:HA	6:N:310:ILE:HD11	1.90	0.53
8:P:96:GLU:O	8:P:404:ARG:NH2	2.41	0.53
8:P:206:LYS:NZ	8:P:386:ASP:OD1	2.37	0.53
8:P:219:HIS:O	8:P:364:LYS:HD2	2.09	0.53
11:3:105:PHE:O	11:3:112:TYR:HA	2.09	0.53
11:3:161:ASP:O	11:3:165:LEU:HD13	2.08	0.53
14:6:58:LYS:H	14:6:67:GLN:HG3	1.73	0.53
2:B:78:ASN:O	2:B:82:LYS:N	2.31	0.52
2:B:119:LYS:O	2:B:120:LYS:HB3	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:129:GLY:HA3	2:B:435:ALA:HB3	1.90	0.52
2:B:146:VAL:N	2:B:406:THR:O	2.39	0.52
4:D:63:ASP:HB2	4:D:65:LYS:HG2	1.91	0.52
4:D:137:PHE:CD1	4:D:454:PHE:HB2	2.43	0.52
4:D:145:ILE:HA	4:D:148:LEU:HB3	1.91	0.52
5:E:232:LYS:NZ	5:E:299:LEU:HD11	2.24	0.52
6:F:459:LEU:O	6:F:463:LEU:N	2.36	0.52
7:G:214:VAL:HG23	7:G:361:PHE:HB2	1.90	0.52
7:G:497:MET:HG3	7:G:501:ASN:ND2	2.25	0.52
8:H:151:ALA:H	8:H:406:LYS:H	1.57	0.52
2:J:131:ARG:NH2	2:J:509:GLU:HA	2.20	0.52
3:K:111:HIS:CG	3:K:112:PHE:H	2.27	0.52
3:K:156:ILE:HG13	3:K:397:VAL:HB	1.91	0.52
4:L:48:ILE:HG22	4:L:111:ILE:HG22	1.91	0.52
4:L:506:GLU:HB3	4:L:508:VAL:HG23	1.91	0.52
5:M:161:ASP:OD1	5:M:164:PRO:HB2	2.09	0.52
6:N:47:LEU:N	6:N:55:LYS:O	2.40	0.52
8:P:282:ALA:HA	8:P:285:ASP:HB2	1.91	0.52
11:3:122:LYS:HG3	13:5:73:PRO:HG3	1.90	0.52
3:C:163:LYS:HZ1	3:C:389:ARG:HB3	1.74	0.52
5:E:76:THR:OG1	5:E:400:ARG:NH2	2.42	0.52
5:E:203:ASP:HA	5:E:414:ARG:HG2	1.91	0.52
5:E:301:ILE:HG13	5:E:333:ILE:HD13	1.90	0.52
6:F:294:GLN:NE2	6:F:321:MET:HB2	2.23	0.52
1:I:156:MET:O	1:I:160:ILE:N	2.42	0.52
3:K:108:VAL:HA	3:K:111:HIS:HE1	1.74	0.52
5:M:356:ALA:HA	5:M:376:GLN:OE1	2.08	0.52
6:N:127:LYS:HG3	6:N:505:LEU:HB3	1.90	0.52
7:O:186:LEU:CD1	7:O:195:ILE:HG23	2.34	0.52
7:O:523:PRO:HA	8:P:59:HIS:ND1	2.24	0.52
8:P:51:GLY:O	8:P:173:TYR:HB2	2.10	0.52
10:2:71:TYR:HB2	11:3:132:MET:O	2.09	0.52
1:A:205:GLN:O	1:A:208:SER:OG	2.26	0.52
1:A:440:GLU:HA	1:A:443:ARG:HB2	1.90	0.52
1:A:453:ALA:HB3	1:A:460:SER:OG	2.09	0.52
2:B:26:LEU:O	2:B:30:ILE:HG23	2.10	0.52
3:C:130:LEU:HA	3:C:506:TYR:CE2	2.41	0.52
3:C:215:LEU:HB3	3:C:364:THR:HG21	1.91	0.52
4:D:287:VAL:CG1	4:D:317:LEU:HA	2.38	0.52
5:E:165:LEU:HD21	5:E:412:LEU:HD13	1.90	0.52
5:E:261:LYS:HG3	5:E:304:TRP:CD1	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:295:THR:HG21	5:E:348:LEU:HG	1.91	0.52
6:F:109:TYR:HE2	6:F:439:ALA:HB2	1.73	0.52
6:F:139:VAL:H	6:F:408:VAL:HG12	1.74	0.52
6:F:205:SER:N	6:F:375:LEU:O	2.34	0.52
7:G:155:LEU:HD22	7:G:180:VAL:HG13	1.90	0.52
7:G:425:ARG:NH1	1:I:473:GLU:OE2	2.41	0.52
8:H:26:GLU:HA	8:H:30:TYR:HD2	1.74	0.52
8:H:327:THR:HG22	8:H:365:HIS:HE1	1.74	0.52
1:I:471:HIS:HA	1:I:484:LYS:HD2	1.91	0.52
2:J:292:ASN:O	2:J:315:ALA:N	2.42	0.52
2:J:381:GLN:HE21	2:J:385:GLU:HG3	1.74	0.52
4:L:49:ARG:HD3	4:L:461:ILE:HG22	1.92	0.52
6:N:135:GLU:HG2	6:N:502:LYS:HZ2	1.74	0.52
7:O:65:ILE:O	7:O:69:LEU:N	2.23	0.52
7:O:259:THR:HG21	7:O:262:ASP:HB2	1.92	0.52
8:P:97:VAL:HG21	8:P:503:GLY:CA	2.39	0.52
8:P:166:THR:OG1	8:P:497:ILE:HG23	2.10	0.52
8:P:272:GLU:HA	8:P:275:LEU:HB3	1.91	0.52
8:P:328:VAL:HB	8:P:345:GLY:HA3	1.89	0.52
8:P:351:TYR:HE2	8:P:364:LYS:HB2	1.74	0.52
12:4:70:GLN:HG3	12:4:75:PHE:CE1	2.44	0.52
12:4:107:SER:HA	12:4:110:ARG:HH21	1.74	0.52
1:A:73:LYS:O	1:A:76:CYS:N	2.41	0.52
1:A:420:SER:HA	1:A:442:ALA:HB1	1.91	0.52
2:B:130:TRP:CD1	2:B:435:ALA:HB1	2.44	0.52
3:C:182:MET:HB2	3:C:372:CYS:HB2	1.91	0.52
4:D:128:ILE:HG21	4:D:450:CYS:SG	2.49	0.52
4:D:210:ILE:HD11	4:D:402:GLU:HG2	1.91	0.52
4:D:306:ARG:HG3	4:D:308:ALA:H	1.74	0.52
5:E:362:ILE:O	5:E:371:MET:N	2.41	0.52
5:E:417:ARG:O	5:E:510:LEU:N	2.43	0.52
5:E:509:THR:O	5:E:512:GLY:N	2.42	0.52
6:F:198:HIS:CD2	6:F:199:LYS:H	2.27	0.52
1:I:524:ILE:O	4:L:57:MET:HA	2.08	0.52
2:J:19:GLU:O	2:J:519:ASN:HA	2.09	0.52
2:J:53:LEU:HB3	4:L:86:PRO:HG2	1.92	0.52
2:J:122:HIS:CG	5:M:467:GLY:HA2	2.44	0.52
3:K:149:SER:HA	3:K:152:MET:HB2	1.90	0.52
5:M:241:LYS:NZ	5:M:361:GLU:HG3	2.25	0.52
6:N:422:LEU:HD11	6:N:437:VAL:HB	1.91	0.52
8:P:116:GLU:HA	8:P:119:LEU:HD12	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:1:95:GLU:HA	9:1:98:LYS:HB3	1.91	0.52
13:5:52:VAL:HA	13:5:55:LYS:HB3	1.90	0.52
1:A:214:TYR:OH	1:A:322:ALA:O	2.27	0.52
2:B:141:LEU:HD21	2:B:501:ARG:HA	1.91	0.52
2:B:278:LYS:HE2	2:B:335:PHE:CD2	2.45	0.52
2:B:280:GLU:O	2:B:284:LYS:HG3	2.09	0.52
2:B:327:THR:HA	2:B:366:ALA:H	1.74	0.52
3:C:16:ARG:HG2	3:C:523:VAL:HA	1.90	0.52
3:C:133:MET:O	3:C:137:LEU:N	2.35	0.52
3:C:265:THR:HA	9:1:100:TYR:CD2	2.45	0.52
4:D:98:GLN:NE2	4:D:104:ASP:O	2.39	0.52
4:D:368:ASN:O	4:D:391:ARG:NH1	2.41	0.52
4:D:399:GLU:HB3	4:D:403:ARG:NH1	2.23	0.52
5:E:140:ALA:HA	5:E:143:VAL:HG22	1.91	0.52
5:E:235:SER:HB2	5:E:311:ASN:HB3	1.91	0.52
8:H:66:THR:HG21	8:H:71:THR:HB	1.91	0.52
8:H:235:LYS:HG2	8:H:350:VAL:O	2.08	0.52
8:H:240:ALA:HB1	8:H:242:TYR:CE2	2.45	0.52
2:J:50:LYS:HZ1	2:J:52:LEU:HA	1.74	0.52
2:J:92:ASP:OD1	2:J:97:ASP:N	2.43	0.52
3:K:73:GLN:HB3	3:K:75:PRO:HD2	1.92	0.52
4:L:159:ASP:O	4:L:163:LEU:HD13	2.10	0.52
5:M:223:LYS:HD2	5:M:364:PHE:CD1	2.45	0.52
6:N:319:ARG:HH21	6:N:323:ARG:HH22	1.57	0.52
7:O:48:LEU:HB2	7:O:58:ILE:HG12	1.90	0.52
7:O:114:GLU:HG3	7:O:116:LEU:H	1.74	0.52
7:O:366:LYS:HB3	7:O:368:LYS:HG3	1.89	0.52
8:P:168:ILE:HG22	8:P:394:ASP:HB2	1.92	0.52
8:P:223:PHE:HZ	8:P:324:LEU:HD13	1.75	0.52
8:P:280:VAL:HA	8:P:283:ILE:HD12	1.91	0.52
9:1:19:LYS:HD3	9:1:108:ALA:HB2	1.91	0.52
1:A:180:LYS:HE2	1:A:373:ALA:HB2	1.92	0.52
1:A:446:LEU:HD11	1:A:468:ARG:HH11	1.75	0.52
2:B:138:ARG:NH2	2:B:505:LEU:HA	2.22	0.52
2:B:201:ILE:H	2:B:322:ARG:NH1	2.08	0.52
3:C:23:GLN:HA	3:C:26:ASN:HD22	1.74	0.52
3:C:88:ASP:HA	3:C:92:GLY:HA2	1.92	0.52
5:E:266:LEU:HB3	5:E:277:LEU:HD21	1.92	0.52
6:F:203:ASP:HB2	6:F:377:LYS:HB2	1.91	0.52
6:F:215:GLY:H	6:F:313:LEU:HG	1.74	0.52
7:G:63:ALA:O	7:G:67:LYS:HG3	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:406:VAL:HG12	7:G:496:ALA:HA	1.92	0.52
7:G:523:PRO:O	8:H:59:HIS:ND1	2.43	0.52
8:H:463:VAL:HA	8:H:488:ALA:HB2	1.90	0.52
3:K:173:CYS:O	3:K:177:LEU:HG	2.10	0.52
6:N:468:ALA:O	6:N:472:GLU:N	2.40	0.52
8:P:197:PHE:HD2	8:P:400:LYS:HB2	1.74	0.52
9:1:38:ASN:ND2	9:1:91:ILE:HG21	2.25	0.52
13:5:94:LYS:NZ	14:6:50:LEU:HG	2.24	0.52
1:A:140:THR:HG21	1:A:402:VAL:O	2.10	0.52
2:B:140:ALA:HB1	2:B:416:LEU:CD2	2.40	0.52
2:B:419:HIS:HB3	2:B:423:GLN:HE22	1.75	0.52
2:B:489:ALA:HB3	2:B:491:LEU:HD12	1.91	0.52
3:C:185:PHE:O	3:C:193:ILE:HA	2.10	0.52
3:C:208:ILE:HG13	3:C:210:GLU:OE1	2.09	0.52
4:D:251:PHE:HB3	4:D:346:ALA:O	2.10	0.52
5:E:116:LEU:O	5:E:120:ALA:N	2.39	0.52
6:F:328:CYS:O	6:F:346:HIS:N	2.39	0.52
7:G:92:ASP:OD2	7:G:398:ARG:NH1	2.42	0.52
7:G:120:ILE:HG12	7:G:431:GLN:HG3	1.91	0.52
7:G:425:ARG:HH11	1:I:421:ILE:HB	1.74	0.52
1:I:150:ASN:O	1:I:154:THR:N	2.25	0.52
2:J:297:TYR:O	2:J:301:GLU:HG3	2.10	0.52
3:K:349:LEU:HB3	3:K:364:THR:HB	1.91	0.52
4:L:194:VAL:HB	4:L:203:VAL:HG13	1.92	0.52
4:L:233:VAL:HG12	4:L:234:SER:N	2.25	0.52
6:N:303:ASP:HB3	6:N:307:LYS:NZ	2.24	0.52
8:P:155:ARG:HA	8:P:188:VAL:HG11	1.92	0.52
8:P:348:ASP:HB2	8:P:364:LYS:HB3	1.91	0.52
10:2:27:ILE:HA	10:2:30:PHE:HB3	1.90	0.52
11:3:160:GLU:HA	11:3:163:ASP:CG	2.30	0.52
1:A:185:ARG:HA	1:A:321:LYS:O	2.10	0.52
1:A:271:THR:O	1:A:275:ILE:HG12	2.09	0.52
1:A:377:LEU:HB3	1:A:384:MET:CE	2.40	0.52
2:B:20:ARG:HH22	5:E:46:ASN:C	2.13	0.52
4:D:118:ASP:O	4:D:122:LYS:HD3	2.09	0.52
4:D:192:MET:HA	4:D:195:ILE:HD12	1.92	0.52
5:E:251:LEU:HA	5:E:342:VAL:HB	1.92	0.52
5:E:288:MET:O	5:E:292:ILE:HG12	2.10	0.52
5:E:306:PHE:CE2	5:E:310:ALA:HB3	2.32	0.52
6:F:353:TYR:N	6:F:360:PHE:O	2.29	0.52
6:F:455:SER:OG	6:F:481:LEU:O	2.26	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:286:THR:OG1	8:H:341:LEU:N	2.43	0.52
8:H:350:VAL:HG13	8:H:363:PHE:CD1	2.45	0.52
1:I:196:ASN:HA	1:I:314:ARG:HH12	1.74	0.52
1:I:321:LYS:HB3	1:I:370:ARG:HH21	1.75	0.52
2:J:513:VAL:O	2:J:517:VAL:HG23	2.09	0.52
3:K:191:LYS:HG3	3:K:192:GLU:HG3	1.91	0.52
6:N:292:ILE:HG21	6:N:316:ALA:HB2	1.92	0.52
8:P:380:SER:H	8:P:384:LEU:HD12	1.75	0.52
10:2:31:ASN:HD21	10:2:116:ASN:HB3	1.75	0.52
1:A:136:LEU:HD23	1:A:409:VAL:HG13	1.92	0.52
1:A:477:ASN:ND2	1:A:479:GLU:HB2	2.25	0.52
1:A:478:PRO:HD3	1:A:498:ASN:HB2	1.92	0.52
2:B:149:GLY:HA2	2:B:155:PHE:N	2.25	0.52
3:C:200:ARG:O	3:C:373:THR:HB	2.10	0.52
4:D:298:LEU:HG	4:D:322:ILE:HG21	1.92	0.52
5:E:28:LEU:HB2	7:G:47:LYS:NZ	2.25	0.52
5:E:305:GLY:HA3	5:E:324:TRP:CD2	2.45	0.52
6:F:114:LEU:HB2	6:N:460:GLN:HE22	1.75	0.52
6:F:155:SER:O	6:F:159:LYS:HG2	2.09	0.52
6:F:328:CYS:HA	6:F:366:CYS:HB3	1.92	0.52
7:G:149:VAL:HG21	7:G:154:LEU:CB	2.37	0.52
7:G:158:CYS:HB2	7:G:396:VAL:HG12	1.92	0.52
7:G:468:HIS:CD2	7:G:472:GLY:HA2	2.45	0.52
4:L:213:LYS:HZ1	4:L:367:LEU:H	1.57	0.52
6:N:409:PRO:HA	6:N:495:TRP:HA	1.92	0.52
8:P:239:ILE:HA	8:P:290:VAL:O	2.10	0.52
11:3:107:LEU:HD21	13:5:53:LEU:HD13	1.90	0.52
13:5:84:ILE:HB	13:5:92:VAL:HG23	1.91	0.52
1:A:198:LEU:HD13	1:A:314:ARG:HH22	1.75	0.52
3:C:183:VAL:HG21	3:C:199:ALA:N	2.25	0.52
3:C:382:GLU:O	3:C:385:SER:N	2.43	0.52
5:E:134:ALA:O	5:E:138:GLU:HG2	2.09	0.52
5:E:287:GLU:HG2	5:E:345:PHE:HZ	1.74	0.52
5:E:305:GLY:HA3	5:E:324:TRP:CE2	2.45	0.52
6:F:354:THR:OG1	6:F:359:LYS:HG2	2.09	0.52
7:G:121:ILE:HD12	7:G:514:VAL:HG13	1.91	0.52
8:H:221:MET:O	8:H:362:VAL:HA	2.10	0.52
2:J:408:TYR:O	2:J:413:SER:HB3	2.10	0.52
3:K:27:ILE:HG12	3:K:106:LEU:HG	1.91	0.52
3:K:200:ARG:NH2	3:K:316:ARG:HH21	1.99	0.52
3:K:220:ILE:HB	3:K:223:ASP:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:430:THR:HA	3:K:434:GLN:OE1	2.09	0.52
3:K:466:LEU:O	3:K:470:HIS:N	2.42	0.52
7:O:65:ILE:HB	7:O:69:LEU:HD13	1.92	0.52
7:O:419:TYR:O	7:O:422:ASP:HB2	2.10	0.52
8:P:78:VAL:O	8:P:84:LYS:NZ	2.28	0.52
8:P:117:GLU:O	8:P:121:ILE:N	2.29	0.52
8:P:276:MET:HE1	8:P:312:LEU:HD11	1.92	0.52
10:2:72:ARG:HB2	10:2:81:ARG:HD3	1.92	0.52
11:3:60:TYR:HD1	11:3:166:ARG:HH11	1.58	0.52
13:5:40:GLN:HA	13:5:43:TYR:CD2	2.44	0.52
1:A:233:LYS:HE3	1:A:345:LEU:HD12	1.92	0.51
3:C:374:ILE:HG22	3:C:376:LEU:HG	1.92	0.51
4:D:274:ARG:NH1	12:4:48:GLN:HE21	2.08	0.51
5:E:254:PRO:HG3	5:E:258:PRO:HD3	1.92	0.51
5:E:350:ALA:HA	5:E:353:LEU:HB2	1.92	0.51
5:E:356:ALA:N	5:E:378:LYS:HD2	2.24	0.51
8:H:71:THR:O	8:H:75:GLU:HB2	2.10	0.51
1:I:295:MET:HB3	3:K:331:ILE:HG21	1.92	0.51
2:J:130:TRP:HB2	2:J:512:GLU:OE2	2.10	0.51
2:J:465:LEU:HG	2:J:469:HIS:CD2	2.44	0.51
3:K:119:PRO:HB2	3:K:517:LEU:HD21	1.92	0.51
5:M:182:HIS:CE1	5:M:219:LEU:HB3	2.45	0.51
7:O:108:VAL:HA	7:O:111:TYR:CD2	2.45	0.51
7:O:205:LEU:HA	7:O:375:ARG:HB3	1.92	0.51
8:P:322:ARG:HG2	8:P:326:LYS:HG3	1.92	0.51
1:A:42:ASP:O	3:C:519:ILE:HD13	2.11	0.51
1:A:314:ARG:HA	1:A:317:LYS:HE3	1.91	0.51
2:B:421:VAL:HA	2:B:424:LEU:HB3	1.91	0.51
3:C:17:GLU:HB2	3:C:522:ILE:HD12	1.92	0.51
3:C:39:THR:O	3:C:46:MET:N	2.26	0.51
3:C:243:SER:O	3:C:245:LEU:N	2.43	0.51
3:C:316:ARG:O	3:C:320:ASN:ND2	2.38	0.51
3:C:408:VAL:O	3:C:496:TRP:HA	2.10	0.51
5:E:103:GLY:HA3	5:E:407:CYS:HB2	1.91	0.51
5:E:410:ARG:HG2	5:E:414:ARG:CZ	2.40	0.51
6:F:87:ILE:O	6:F:396:ARG:HB3	2.10	0.51
6:F:137:VAL:HG13	6:F:501:LYS:HZ2	1.75	0.51
6:F:174:ASP:HB3	6:F:206:LEU:HD13	1.91	0.51
6:F:489:ALA:HB1	6:F:494:VAL:HG23	1.92	0.51
7:G:242:VAL:HB	7:G:334:VAL:HB	1.92	0.51
7:G:349:GLU:HB3	7:G:360:PHE:CD2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:411:GLY:H	8:H:498:LEU:HA	1.74	0.51
1:I:21:ASN:HA	1:I:24:ALA:HB3	1.93	0.51
2:J:113:ALA:HB2	2:J:130:TRP:CH2	2.45	0.51
3:K:160:ILE:HD11	3:K:394:ALA:HB2	1.93	0.51
3:K:279:CYS:HB2	3:K:300:ALA:HB1	1.92	0.51
3:K:449:ARG:O	3:K:453:GLN:N	2.40	0.51
4:L:59:LYS:HB2	4:L:71:THR:OG1	2.10	0.51
4:L:461:ILE:HG13	4:L:462:PRO:HD3	1.92	0.51
4:L:493:ILE:HA	4:L:500:ILE:HA	1.91	0.51
6:N:234:ASN:HD21	6:N:318:ARG:NH2	2.07	0.51
7:O:40:LEU:O	7:O:44:GLY:HA3	2.09	0.51
7:O:230:LYS:HE3	7:O:231:LYS:HE2	1.92	0.51
7:O:520:ILE:HB	8:P:56:VAL:HG13	1.92	0.51
8:P:240:ALA:HA	8:P:344:MET:HG2	1.91	0.51
11:3:123:MET:HG2	11:3:137:ILE:HD13	1.91	0.51
11:3:123:MET:N	11:3:135:TYR:O	2.25	0.51
12:4:78:HIS:HE1	12:4:83:THR:OG1	1.93	0.51
1:A:186:GLY:H	1:A:322:ALA:HA	1.75	0.51
1:A:526:ARG:HD3	4:D:57:MET:HG2	1.92	0.51
2:B:86:ASP:N	2:B:89:ARG:HH21	2.08	0.51
3:C:94:GLY:O	3:C:98:VAL:HG13	2.10	0.51
4:D:435:ARG:NH2	4:D:484:HIS:O	2.38	0.51
6:F:127:LYS:HA	6:F:440:PHE:CZ	2.45	0.51
8:H:245:PRO:HD2	8:H:293:THR:HA	1.92	0.51
2:J:322:ARG:NH1	2:J:365:VAL:HG23	2.25	0.51
3:K:27:ILE:HD11	3:K:110:GLU:HB3	1.92	0.51
3:K:157:ASN:HB2	3:K:169:SER:OG	2.10	0.51
3:K:236:PRO:HG2	3:K:328:GLY:O	2.10	0.51
6:N:212:LEU:HD23	6:N:320:ASN:HB3	1.92	0.51
6:N:487:MET:SD	6:N:492:VAL:HG21	2.51	0.51
7:O:228:GLN:NE2	7:O:303:PHE:HB3	2.25	0.51
8:P:172:GLN:NE2	8:P:179:LEU:HD12	2.25	0.51
8:P:242:TYR:CE2	8:P:283:ILE:HG12	2.45	0.51
9:1:108:ALA:HA	9:1:111:ASN:OD1	2.10	0.51
2:B:289:CYS:SG	2:B:349:ILE:HD12	2.50	0.51
2:B:451:ALA:O	2:B:455:GLY:N	2.43	0.51
3:C:67:LEU:HB2	3:C:85:ARG:HH22	1.74	0.51
5:E:437:ALA:HA	5:E:440:CYS:HB2	1.92	0.51
5:E:471:ILE:HG22	4:L:446:MET:HG2	1.92	0.51
6:F:15:ARG:HG2	6:F:520:GLU:HG3	1.92	0.51
1:I:131:TYR:CE1	1:I:478:PRO:HG3	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:165:GLY:H	1:I:168:PHE:HD2	1.57	0.51
2:J:19:GLU:HB2	2:J:522:LYS:NZ	2.25	0.51
2:J:32:ALA:O	2:J:36:GLY:N	2.41	0.51
2:J:50:LYS:NZ	2:J:52:LEU:HA	2.25	0.51
2:J:72:LYS:HZ3	2:J:89:ARG:HB2	1.75	0.51
4:L:282:TYR:CE2	4:L:286:LEU:HD11	2.45	0.51
4:L:408:ALA:HA	4:L:411:VAL:HG12	1.92	0.51
5:M:189:ALA:HB2	5:M:402:LEU:HD11	1.93	0.51
6:N:28:ARG:HD3	6:N:103:LEU:HB2	1.91	0.51
6:N:446:ILE:HA	6:N:449:LYS:HB2	1.92	0.51
7:O:16:SER:O	7:O:518:GLU:HA	2.11	0.51
8:P:140:HIS:HA	8:P:143:LEU:HD12	1.93	0.51
8:P:499:ASP:HB2	8:P:504:LYS:HD3	1.93	0.51
10:2:30:PHE:CD1	11:3:176:MET:HG2	2.45	0.51
2:B:159:LEU:HB3	2:B:184:VAL:HG12	1.93	0.51
2:B:521:ILE:HB	5:E:77:ILE:HD11	1.91	0.51
3:C:238:ILE:HA	3:C:289:VAL:HG23	1.93	0.51
4:D:209:LYS:HB2	4:D:335:PHE:CZ	2.46	0.51
4:D:221:CYS:HA	4:D:389:VAL:O	2.10	0.51
4:D:390:VAL:HG11	4:D:402:GLU:HG3	1.93	0.51
5:E:337:THR:O	5:E:355:PHE:HB2	2.10	0.51
5:E:513:LYS:HD3	5:E:516:GLN:OE1	2.10	0.51
6:F:134:LEU:HB3	6:F:498:TYR:HE1	1.75	0.51
6:F:274:ILE:HG13	6:F:336:PHE:HB3	1.93	0.51
6:F:323:ARG:O	6:F:327:ALA:N	2.34	0.51
7:G:36:VAL:O	7:G:39:THR:HG22	2.10	0.51
7:G:143:VAL:HG23	7:G:147:ASP:HB2	1.91	0.51
1:I:117:VAL:HG13	1:I:437:ALA:HB2	1.92	0.51
1:I:252:VAL:HG13	3:K:248:LYS:HD2	1.93	0.51
2:J:61:LEU:HD11	4:L:86:PRO:HA	1.91	0.51
2:J:147:ASP:HA	2:J:405:ARG:HA	1.90	0.51
2:J:269:HIS:CE1	4:L:306:ARG:HD2	2.46	0.51
3:K:370:LYS:HE2	3:K:372:CYS:HB2	1.91	0.51
6:N:446:ILE:HA	6:N:449:LYS:HE2	1.92	0.51
7:O:37:ARG:HH22	7:O:102:ALA:HB3	1.74	0.51
8:P:57:ILE:HA	8:P:62:LYS:O	2.11	0.51
8:P:203:ARG:O	8:P:374:THR:HA	2.10	0.51
9:1:36:GLN:HA	9:1:39:ARG:HB2	1.93	0.51
12:4:62:ASP:O	12:4:80:GLN:NE2	2.38	0.51
1:A:288:THR:HB	1:A:309:ARG:HA	1.93	0.51
2:B:219:LEU:HD13	2:B:361:HIS:CD2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:414:GLU:O	2:B:418:ALA:N	2.37	0.51
3:C:430:THR:HG21	8:P:471:HIS:HE1	1.76	0.51
4:D:191:VAL:O	4:D:195:ILE:HG13	2.10	0.51
5:E:135:ASP:OD1	7:G:43:ARG:NH2	2.42	0.51
5:E:439:LYS:C	5:E:441:PRO:HD3	2.31	0.51
6:F:253:ALA:HB2	14:6:112:GLN:HB3	1.92	0.51
8:H:347:CYS:SG	8:H:363:PHE:HB3	2.50	0.51
1:I:210:LEU:HA	1:I:375:ILE:HA	1.92	0.51
2:J:246:THR:HG23	2:J:247:ASP:H	1.75	0.51
4:L:159:ASP:OD1	4:L:160:ARG:N	2.43	0.51
4:L:187:SER:OG	4:L:405:ILE:HG13	2.11	0.51
4:L:300:ILE:O	4:L:328:ILE:HG22	2.10	0.51
4:L:376:ILE:CG2	4:L:379:CYS:HB3	2.41	0.51
5:M:61:MET:O	5:M:69:THR:N	2.43	0.51
5:M:329:GLU:HG2	5:M:333:ILE:HG13	1.93	0.51
6:N:91:GLY:HA2	6:N:94:SER:HB2	1.91	0.51
6:N:250:TYR:HD1	6:N:256:ARG:HG2	1.75	0.51
6:N:268:GLU:HA	6:N:271:VAL:HG12	1.92	0.51
7:O:200:VAL:HG23	7:O:375:ARG:CG	2.40	0.51
7:O:417:SER:HA	7:O:439:ALA:HB1	1.92	0.51
10:2:72:ARG:HD2	10:2:81:ARG:HH11	1.76	0.51
11:3:125:LEU:HA	13:5:70:MET:HA	1.91	0.51
1:A:348:ALA:HB2	1:A:364:ILE:HG23	1.93	0.51
2:B:85:VAL:HG12	2:B:89:ARG:CZ	2.41	0.51
2:B:142:LEU:HD23	2:B:497:PHE:HZ	1.76	0.51
3:C:155:ILE:O	3:C:159:SER:N	2.44	0.51
3:C:301:GLN:O	3:C:305:MET:HG2	2.10	0.51
5:E:59:LYS:HZ1	5:E:72:ASN:HA	1.76	0.51
5:E:194:LEU:HA	5:E:197:ALA:HB3	1.92	0.51
5:E:340:ARG:NH2	7:G:305:ASP:OD1	2.44	0.51
5:E:541:GLU:HB2	7:G:54:GLY:HA2	1.93	0.51
6:F:245:ASN:HB3	6:F:250:TYR:HB2	1.92	0.51
8:H:31:ARG:HG2	8:H:80:HIS:CE1	2.45	0.51
8:H:103:PHE:CE2	8:H:507:ALA:HB1	2.46	0.51
8:H:246:PHE:O	8:H:293:THR:OG1	2.28	0.51
1:I:196:ASN:HD22	1:I:214:TYR:HB3	1.74	0.51
1:I:299:TYR:HE2	3:K:331:ILE:HB	1.76	0.51
2:J:416:LEU:HG	2:J:469:HIS:CE1	2.45	0.51
3:K:286:LYS:HB3	3:K:309:ILE:HD11	1.91	0.51
4:L:172:ASN:HB3	4:L:496:ARG:NH2	2.21	0.51
4:L:209:LYS:HZ3	4:L:229:LEU:HA	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:135:ASP:HB2	5:M:444:GLU:OE2	2.11	0.51
5:M:419:VAL:CG1	5:M:513:LYS:HG3	2.40	0.51
5:M:522:GLN:O	5:M:526:MET:N	2.27	0.51
6:N:155:SER:HB3	6:N:397:ALA:HB1	1.91	0.51
6:N:382:HIS:CE1	6:N:383:THR:HG23	2.46	0.51
7:O:279:GLU:O	7:O:283:HIS:ND1	2.44	0.51
7:O:499:ARG:O	7:O:503:LEU:HG	2.10	0.51
8:P:41:GLN:HB2	8:P:44:ARG:HH11	1.74	0.51
8:P:423:ILE:HA	8:P:426:TYR:HB3	1.92	0.51
9:1:106:LYS:HA	9:1:109:GLU:HB3	1.93	0.51
11:3:144:LEU:HD13	13:5:70:MET:HG3	1.91	0.51
1:A:52:VAL:HG22	1:A:53:THR:H	1.76	0.51
1:A:465:ALA:HB3	7:O:429:GLY:O	2.11	0.51
2:B:281:ARG:HD2	2:B:338:PRO:HB2	1.91	0.51
2:B:407:VAL:N	2:B:495:GLU:O	2.27	0.51
2:B:498:GLN:HA	2:B:501:ARG:HE	1.76	0.51
3:C:186:GLU:O	3:C:192:GLU:HB3	2.11	0.51
3:C:470:HIS:HB2	3:C:475:CYS:SG	2.51	0.51
3:C:491:LYS:HG2	3:C:496:TRP:HZ2	1.73	0.51
4:D:169:THR:HA	4:D:172:ASN:HB2	1.91	0.51
5:E:102:ILE:HD13	5:E:411:ASN:ND2	2.24	0.51
5:E:137:TYR:HD1	5:E:451:PHE:HB2	1.75	0.51
5:E:251:LEU:HD23	5:E:342:VAL:HB	1.93	0.51
5:E:306:PHE:HB2	5:E:323:ARG:NE	2.26	0.51
5:E:405:ALA:HA	5:E:408:VAL:HG22	1.92	0.51
7:G:323:MET:HA	7:G:328:GLY:O	2.11	0.51
7:G:374:LEU:HD11	7:G:385:THR:HG22	1.93	0.51
8:H:434:GLU:HG3	8:H:438:ILE:CD1	2.41	0.51
8:H:434:GLU:O	8:H:438:ILE:HD12	2.10	0.51
1:I:139:ASN:HB2	1:I:504:PHE:CD2	2.46	0.51
2:J:487:ASP:HB2	2:J:490:ILE:HB	1.91	0.51
3:K:48:LYS:HG3	6:N:520:GLU:HG2	1.91	0.51
3:K:168:TRP:HH2	3:K:378:GLY:HA2	1.76	0.51
5:M:51:SER:OG	5:M:59:LYS:HD3	2.11	0.51
5:M:284:LYS:O	5:M:288:MET:N	2.33	0.51
5:M:419:VAL:N	5:M:508:GLU:O	2.40	0.51
6:N:354:THR:OG1	6:N:359:LYS:HG2	2.11	0.51
8:P:71:THR:HA	8:P:74:ARG:NH1	2.26	0.51
8:P:152:LYS:HD3	8:P:402:LEU:O	2.11	0.51
8:P:417:ILE:HD13	8:P:467:LEU:HD23	1.92	0.51
9:1:110:ASP:OD1	9:1:113:ARG:NH2	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:131:TYR:O	1:A:135:ASN:N	2.40	0.51
1:A:313:LYS:O	1:A:317:LYS:HG2	2.11	0.51
2:B:293:ARG:HH21	2:B:320:VAL:HB	1.73	0.51
4:D:135:GLU:HA	4:D:527:ARG:HH12	1.75	0.51
4:D:157:LEU:HD13	4:D:416:VAL:HA	1.91	0.51
4:D:431:GLU:O	4:D:435:ARG:HG2	2.11	0.51
5:E:256:GLU:OE2	5:E:311:ASN:HA	2.11	0.51
6:F:409:PRO:HB3	6:F:489:ALA:HB3	1.93	0.51
6:F:504:LEU:O	6:F:508:CYS:N	2.31	0.51
7:G:220:PHE:HB2	7:G:222:TYR:CZ	2.46	0.51
7:G:408:GLY:HA2	7:G:499:ARG:HH22	1.76	0.51
7:G:417:SER:HA	7:G:420:LEU:HB2	1.91	0.51
8:H:160:VAL:O	8:H:164:LEU:HG	2.11	0.51
8:H:341:LEU:HD22	8:H:344:MET:H	1.75	0.51
1:I:13:THR:HA	1:I:530:LEU:HD22	1.93	0.51
1:I:110:GLN:NE2	4:L:472:ASN:HB2	2.25	0.51
2:J:478:LEU:O	2:J:488:MET:HE1	2.11	0.51
4:L:459:GLU:O	4:L:462:PRO:HD2	2.11	0.51
4:L:527:ARG:O	4:L:531:LYS:N	2.33	0.51
7:O:278:LEU:HD22	7:O:303:PHE:CE2	2.46	0.51
8:P:448:ILE:HB	8:P:449:PRO:HD3	1.93	0.51
9:1:66:ARG:NH2	13:5:65:PRO:HB3	2.26	0.51
9:1:91:ILE:HG13	9:1:92:LYS:HG3	1.91	0.51
10:2:27:ILE:O	10:2:31:ASN:N	2.44	0.51
10:2:71:TYR:HE2	11:3:124:CYS:HG	1.59	0.51
12:4:65:LEU:HD11	14:6:68:GLU:HG2	1.93	0.51
13:5:91:TYR:CZ	14:6:59:LEU:HD22	2.46	0.51
1:A:69:HIS:HB2	1:A:72:ALA:H	1.75	0.51
2:B:40:LYS:HB3	2:B:104:VAL:HG21	1.93	0.51
2:B:518:ASP:OD2	5:E:57:LEU:HB2	2.10	0.51
4:D:52:LEU:HA	4:D:107:THR:HG21	1.93	0.51
5:E:299:LEU:HD23	5:E:359:VAL:HG11	1.93	0.51
6:F:453:GLN:OE1	6:F:459:LEU:N	2.42	0.51
7:G:286:ALA:HB2	7:G:342:LEU:HD21	1.93	0.51
7:G:502:ALA:O	7:G:506:ALA:N	2.44	0.51
8:H:191:PHE:HE1	8:H:198:ASN:HD22	1.54	0.51
1:I:275:ILE:HG12	1:I:305:ALA:HB1	1.92	0.51
3:K:44:LYS:HB3	6:N:117:ARG:HG2	1.93	0.51
3:K:489:ASP:HB3	3:K:492:GLU:HB2	1.93	0.51
4:L:232:LYS:NZ	4:L:372:LYS:O	2.36	0.51
6:N:221:MET:HE1	6:N:312:ALA:HB3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:39:LEU:HA	8:P:73:LEU:HD21	1.93	0.51
8:P:118:LEU:O	8:P:123:LEU:N	2.43	0.51
8:P:203:ARG:NH1	8:P:372:ILE:HB	2.26	0.51
8:P:502:LEU:HB3	8:P:506:TRP:NE1	2.25	0.51
10:2:36:GLU:O	10:2:40:LEU:HG	2.11	0.51
4:D:231:GLN:HA	4:D:372:LYS:O	2.10	0.50
4:D:262:ASN:HA	4:D:279:GLU:HG3	1.92	0.50
5:E:62:VAL:HG12	5:E:66:GLY:HA2	1.93	0.50
5:E:101:GLU:HA	5:E:410:ARG:NH1	2.26	0.50
5:E:442:THR:HA	4:L:482:ASN:HB3	1.93	0.50
6:F:195:GLU:HG3	6:F:376:ILE:HD11	1.93	0.50
6:F:464:VAL:HG21	6:N:428:SER:O	2.10	0.50
7:G:116:LEU:HG	7:G:121:ILE:CG2	2.41	0.50
7:G:153:LYS:O	7:G:157:LYS:N	2.31	0.50
8:H:142:ILE:O	8:H:146:LEU:N	2.44	0.50
8:H:164:LEU:HD12	8:H:180:ALA:O	2.11	0.50
8:H:417:ILE:HB	8:H:421:LYS:HZ2	1.74	0.50
1:I:241:LEU:HB2	1:I:309:ARG:HH12	1.77	0.50
2:J:37:ASP:OD1	2:J:38:LEU:N	2.44	0.50
2:J:113:ALA:HB2	2:J:130:TRP:HH2	1.76	0.50
2:J:444:ARG:HD3	2:J:466:ARG:HD3	1.93	0.50
3:K:204:ILE:H	3:K:384:LEU:HD11	1.76	0.50
5:M:85:HIS:O	5:M:541:GLU:HG3	2.10	0.50
5:M:137:TYR:HD1	5:M:451:PHE:HB2	1.76	0.50
5:M:311:ASN:HD21	5:M:323:ARG:CZ	2.24	0.50
6:N:190:MET:HE2	6:N:370:ARG:HD2	1.93	0.50
6:N:348:GLY:HA3	6:N:365:LYS:HD3	1.93	0.50
8:P:142:ILE:HG21	8:P:422:GLN:OE1	2.11	0.50
13:5:33:ILE:HB	13:5:117:ILE:HB	1.94	0.50
1:A:223:GLN:HE21	1:A:301:VAL:HG21	1.74	0.50
3:C:141:SER:HB2	3:C:499:LEU:HD12	1.93	0.50
3:C:471:THR:OG1	8:P:428:GLU:OE2	2.27	0.50
5:E:116:LEU:HD21	5:E:137:TYR:CG	2.45	0.50
6:F:192:GLU:OE1	6:F:373:THR:OG1	2.19	0.50
7:G:279:GLU:HB3	7:G:283:HIS:CD2	2.45	0.50
7:G:429:GLY:O	7:G:432:GLN:HB3	2.11	0.50
8:H:72:ILE:O	8:H:76:LEU:HG	2.11	0.50
8:H:139:ALA:HA	8:H:419:LEU:HD22	1.92	0.50
8:H:238:LYS:HD2	8:H:344:MET:HB3	1.92	0.50
8:H:351:TYR:N	8:H:362:VAL:O	2.28	0.50
8:H:416:GLU:HB3	8:H:445:PHE:HB3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:114:PRO:HB3	4:L:55:LYS:HE3	1.93	0.50
1:I:135:ASN:HD22	1:I:478:PRO:HB3	1.76	0.50
1:I:204:SER:HB3	1:I:207:GLU:HG3	1.93	0.50
2:J:173:THR:HB	2:J:210:ALA:HB2	1.93	0.50
2:J:200:HIS:CE1	2:J:322:ARG:HB2	2.46	0.50
3:K:397:VAL:HA	3:K:400:ASN:HB3	1.93	0.50
4:L:137:PHE:HD2	4:L:527:ARG:HB3	1.75	0.50
4:L:147:ILE:HD12	4:L:432:LEU:HD12	1.94	0.50
4:L:208:ILE:HD13	4:L:409:LEU:HD13	1.92	0.50
4:L:306:ARG:N	4:L:308:ALA:H	2.09	0.50
4:L:413:ARG:HH11	4:L:417:LYS:NZ	2.09	0.50
5:M:427:ILE:HD13	5:M:456:GLU:HG2	1.93	0.50
6:N:133:PHE:O	6:N:137:VAL:HG12	2.11	0.50
7:O:223:ALA:HB3	7:O:301:GLN:HG2	1.93	0.50
7:O:290:LEU:HD11	7:O:361:PHE:CE2	2.47	0.50
8:P:103:PHE:HE1	8:P:448:ILE:HG13	1.74	0.50
10:2:68:ARG:NH2	11:3:134:GLU:O	2.31	0.50
11:3:81:ILE:HD11	13:5:69:SER:HB2	1.92	0.50
3:C:258:ILE:HB	3:C:264:PHE:HD1	1.76	0.50
3:C:429:MET:SD	3:C:437:TYR:OH	2.63	0.50
4:D:275:VAL:O	4:D:278:GLU:HB2	2.11	0.50
5:E:121:GLU:O	5:E:125:ASP:N	2.31	0.50
5:E:334:ALA:HB1	5:E:340:ARG:HA	1.94	0.50
5:E:457:VAL:O	5:E:461:ALA:N	2.28	0.50
5:E:496:LYS:HB2	5:E:504:GLN:HE22	1.77	0.50
6:F:58:LYS:HD2	6:F:159:LYS:O	2.12	0.50
6:F:134:LEU:HA	6:F:137:VAL:HG12	1.93	0.50
7:G:231:LYS:HE3	7:G:349:GLU:HG3	1.93	0.50
7:G:287:LYS:O	7:G:309:PHE:N	2.44	0.50
7:G:517:ASP:OD1	7:G:518:GLU:HG3	2.11	0.50
8:H:304:TYR:O	8:H:308:TYR:N	2.39	0.50
1:I:243:LYS:O	1:I:264:ARG:NH1	2.44	0.50
1:I:430:MET:HB3	1:I:434:GLU:CB	2.42	0.50
3:K:462:LEU:O	3:K:466:LEU:N	2.31	0.50
4:L:74:GLY:O	4:L:78:LEU:N	2.39	0.50
4:L:213:LYS:HZ1	4:L:367:LEU:HB2	1.75	0.50
4:L:429:GLU:HB2	4:L:461:ILE:HD11	1.93	0.50
6:N:274:ILE:HG22	6:N:310:ILE:HG12	1.91	0.50
7:O:214:VAL:N	7:O:361:PHE:O	2.40	0.50
8:P:216:SER:H	8:P:376:VAL:HG12	1.77	0.50
9:1:33:GLN:HB2	9:1:94:LEU:CD2	2.38	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:1:82:GLU:O	9:1:86:ILE:HG12	2.11	0.50
10:2:31:ASN:O	10:2:35:GLN:N	2.33	0.50
11:3:101:MET:O	11:3:117:VAL:HG12	2.11	0.50
11:3:105:PHE:N	11:3:113:CYS:O	2.35	0.50
11:3:132:MET:O	11:3:133:LEU:HD12	2.11	0.50
13:5:50:LEU:HD13	13:5:53:LEU:HD23	1.92	0.50
1:A:32:VAL:HB	1:A:91:THR:OG1	2.10	0.50
1:A:44:MET:HB2	3:C:522:ILE:HG12	1.93	0.50
1:A:233:LYS:O	1:A:284:ASN:N	2.42	0.50
2:B:20:ARG:NH1	5:E:47:THR:HG1	2.10	0.50
2:B:441:LYS:O	2:B:445:MET:N	2.45	0.50
3:C:122:VAL:HG22	3:C:436:PRO:HG3	1.92	0.50
3:C:129:ALA:HB1	3:C:440:VAL:HG11	1.93	0.50
4:D:297:VAL:HA	4:D:323:MET:O	2.11	0.50
6:F:414:VAL:HG12	6:F:418:MET:HE2	1.94	0.50
7:G:71:VAL:HG12	7:G:73:HIS:N	2.27	0.50
7:G:108:VAL:HG12	7:G:112:VAL:HG23	1.93	0.50
7:G:168:ILE:HG13	7:G:169:SER:H	1.76	0.50
8:H:178:PHE:CE2	8:H:182:LEU:HD11	2.46	0.50
8:H:354:GLU:HG2	8:H:359:GLN:HA	1.94	0.50
2:J:91:GLN:HE22	2:J:502:GLN:HB3	1.76	0.50
2:J:138:ARG:HG2	2:J:501:ARG:HG3	1.94	0.50
2:J:424:LEU:HD23	2:J:427:ARG:HH11	1.75	0.50
3:K:449:ARG:HG3	3:K:459:THR:OG1	2.11	0.50
4:L:300:ILE:HD13	4:L:324:VAL:HB	1.94	0.50
5:M:27:ARG:HD3	5:M:533:ILE:O	2.11	0.50
5:M:94:LEU:HD11	5:M:519:LEU:HB3	1.94	0.50
5:M:169:ALA:O	5:M:173:LEU:HB2	2.12	0.50
5:M:199:MET:HG2	5:M:413:ILE:HG12	1.92	0.50
5:M:306:PHE:CE2	5:M:314:LEU:HD22	2.45	0.50
6:N:259:LEU:O	6:N:263:GLU:N	2.45	0.50
8:P:80:HIS:O	8:P:84:LYS:HG3	2.12	0.50
1:A:86:VAL:HG22	1:A:88:ASP:H	1.77	0.50
1:A:228:ARG:HH12	1:A:230:VAL:HB	1.75	0.50
1:A:285:VAL:HG21	1:A:351:VAL:HG21	1.92	0.50
2:B:424:LEU:HA	2:B:427:ARG:HE	1.77	0.50
3:C:144:VAL:N	3:C:405:PRO:O	2.39	0.50
4:D:280:ARG:HH22	14:6:79:ARG:HA	1.77	0.50
5:E:215:VAL:HG21	5:E:392:LYS:HG2	1.93	0.50
7:G:297:ASP:OD1	7:G:298:VAL:N	2.44	0.50
8:H:142:ILE:HB	8:H:419:LEU:HD23	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:492:ASN:HB3	1:I:496:ARG:HH21	1.77	0.50
2:J:198:ALA:O	2:J:200:HIS:ND1	2.44	0.50
3:K:74:HIS:HA	3:K:78:LYS:HE3	1.93	0.50
3:K:144:VAL:HG23	3:K:401:VAL:HG23	1.92	0.50
3:K:387:VAL:HG12	3:K:391:LEU:HD11	1.93	0.50
4:L:171:LEU:HG	4:L:408:ALA:HB2	1.94	0.50
4:L:240:ARG:NE	4:L:364:GLU:O	2.45	0.50
4:L:427:ALA:HB1	4:L:503:ILE:HG21	1.93	0.50
7:O:134:ASN:O	7:O:138:GLU:N	2.44	0.50
7:O:326:CYS:HA	7:O:364:CYS:HB3	1.93	0.50
8:P:222:VAL:HG23	8:P:374:THR:HG21	1.94	0.50
8:P:354:GLU:HA	8:P:358:THR:O	2.11	0.50
11:3:104:ARG:NH1	11:3:114:LYS:HG3	2.26	0.50
1:A:44:MET:HA	1:A:54:ILE:HG13	1.92	0.50
2:B:115:SER:O	2:B:119:LYS:N	2.44	0.50
2:B:175:HIS:NE2	2:B:209:LEU:HB2	2.26	0.50
2:B:293:ARG:HD3	2:B:317:PHE:CD1	2.46	0.50
2:B:293:ARG:NH2	2:B:321:GLU:HG3	2.26	0.50
2:B:316:ASP:O	2:B:320:VAL:HG23	2.11	0.50
3:C:126:TYR:CD2	3:C:514:VAL:HG22	2.46	0.50
3:C:167:ARG:NH2	3:C:386:GLU:OE1	2.44	0.50
3:C:239:VAL:HG11	3:C:282:ILE:HG23	1.94	0.50
3:C:398:CYS:O	3:C:402:LEU:HG	2.10	0.50
5:E:156:LEU:HD23	5:E:161:ASP:HA	1.93	0.50
5:E:288:MET:HG2	5:E:345:PHE:CE1	2.47	0.50
5:E:298:ASN:CG	5:E:319:LEU:HD13	2.32	0.50
5:E:365:GLY:H	5:E:388:ARG:CZ	2.24	0.50
6:F:350:VAL:HG22	6:F:363:ILE:HG13	1.92	0.50
6:F:382:HIS:O	6:F:386:GLN:N	2.44	0.50
6:F:504:LEU:HD12	6:F:505:LEU:N	2.26	0.50
1:I:100:LEU:HA	1:I:103:ASN:HB2	1.94	0.50
2:J:91:GLN:NE2	2:J:502:GLN:HB3	2.26	0.50
2:J:135:LYS:HA	2:J:138:ARG:HE	1.75	0.50
4:L:155:VAL:HG22	4:L:420:ALA:N	2.27	0.50
4:L:247:GLY:N	4:L:295:CYS:SG	2.85	0.50
4:L:253:LEU:HD22	4:L:348:ILE:CG2	2.41	0.50
5:M:157:VAL:O	5:M:161:ASP:N	2.27	0.50
5:M:178:VAL:HG23	5:M:182:HIS:CE1	2.47	0.50
6:N:50:GLY:H	6:N:67:MET:HE3	1.77	0.50
6:N:413:ALA:HB1	6:N:476:LEU:HD22	1.94	0.50
7:O:66:LEU:HD13	7:O:80:VAL:HA	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:276:ASP:OD2	7:O:280:LYS:NZ	2.30	0.50
7:O:413:GLU:HB3	7:O:442:LEU:HB3	1.93	0.50
7:O:450:CYS:SG	7:O:477:VAL:HG11	2.52	0.50
8:P:86:ILE:HG13	8:P:514:ALA:HB1	1.92	0.50
11:3:136:ASP:C	11:3:138:ASP:H	2.15	0.50
1:A:45:LEU:O	1:A:53:THR:N	2.44	0.50
2:B:49:ASP:N	4:D:531:LYS:O	2.45	0.50
2:B:323:LEU:HD13	2:B:362:PHE:HD2	1.76	0.50
3:C:154:ASN:OD1	3:C:155:ILE:N	2.45	0.50
4:D:280:ARG:CZ	14:6:79:ARG:HD2	2.42	0.50
5:E:289:ILE:HG22	5:E:293:LYS:HE3	1.94	0.50
5:E:478:ARG:NH2	4:L:440:SER:O	2.45	0.50
6:F:232:THR:HB	6:F:331:VAL:O	2.11	0.50
7:G:74:PRO:HB3	8:H:63:LEU:HD22	1.94	0.50
7:G:103:GLU:OE2	7:G:107:GLN:NE2	2.44	0.50
8:H:207:ILE:HB	8:H:378:ARG:HG2	1.93	0.50
8:H:208:LEU:H	8:H:224:LYS:HZ1	1.59	0.50
8:H:439:LYS:O	8:H:443:GLU:HG3	2.11	0.50
1:I:214:TYR:CG	1:I:372:SER:HB3	2.46	0.50
1:I:237:LEU:HB2	1:I:288:THR:HA	1.94	0.50
1:I:245:LYS:HZ3	3:K:247:TYR:HD2	1.60	0.50
4:L:239:THR:HG23	4:L:296:ASN:HB2	1.94	0.50
5:M:36:SER:HA	5:M:538:GLU:OE2	2.11	0.50
5:M:114:GLY:O	5:M:118:GLU:N	2.34	0.50
5:M:437:ALA:HB1	5:M:448:MET:HB2	1.94	0.50
7:O:247:LYS:HE2	7:O:271:TRP:CD1	2.47	0.50
10:2:81:ARG:CZ	10:2:85:GLU:HB3	2.42	0.50
1:A:35:SER:HB3	1:A:57:ASP:N	2.27	0.50
1:A:196:ASN:ND2	1:A:215:ALA:O	2.45	0.50
1:A:450:ASN:HA	1:A:460:SER:CB	2.40	0.50
1:A:487:GLY:HA3	1:A:496:ARG:O	2.12	0.50
2:B:30:ILE:HG13	2:B:31:GLY:N	2.27	0.50
2:B:354:ILE:HB	2:B:376:ARG:NH2	2.26	0.50
4:D:91:LEU:HA	4:D:94:LEU:HB3	1.93	0.50
4:D:119:SER:OG	4:D:453:ALA:O	2.27	0.50
5:E:51:SER:C	5:E:56:GLY:HA3	2.32	0.50
5:E:417:ARG:HH21	5:E:510:LEU:HD22	1.76	0.50
6:F:91:GLY:HA2	6:F:94:SER:CB	2.41	0.50
6:F:204:THR:HA	6:F:375:LEU:O	2.12	0.50
6:F:276:GLU:HA	6:F:279:ARG:HB2	1.92	0.50
7:G:157:LYS:O	7:G:161:THR:OG1	2.23	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:426:THR:HA	1:I:469:ALA:HA	1.93	0.50
8:H:243:SER:H	8:H:333:LEU:N	2.10	0.50
1:I:131:TYR:CD2	1:I:419:LEU:HD21	2.47	0.50
1:I:278:ILE:HG12	1:I:340:PHE:CG	2.46	0.50
1:I:361:LEU:HD22	1:I:376:ILE:HD11	1.94	0.50
5:M:416:ASN:O	5:M:418:VAL:HG13	2.11	0.50
7:O:239:LEU:O	7:O:331:GLN:N	2.35	0.50
7:O:521:LYS:HA	8:P:57:ILE:HB	1.92	0.50
8:P:130:GLU:O	8:P:134:ILE:HG12	2.12	0.50
8:P:245:PRO:HG3	8:P:295:GLY:HA3	1.94	0.50
8:P:460:ALA:HA	8:P:463:VAL:HB	1.92	0.50
12:4:78:HIS:ND1	12:4:79:SER:O	2.45	0.50
1:A:292:ILE:H	1:A:309:ARG:HD2	1.77	0.50
2:B:498:GLN:NE2	2:B:501:ARG:HH21	2.10	0.50
2:B:501:ARG:NH1	2:B:502:GLN:OE1	2.44	0.50
2:B:511:ALA:O	2:B:515:LEU:HG	2.12	0.50
3:C:215:LEU:HD22	3:C:362:PHE:CD1	2.47	0.50
3:C:259:THR:HG22	3:C:260:ARG:HG2	1.94	0.50
4:D:205:LEU:HD21	4:D:409:LEU:HB3	1.93	0.50
4:D:228:VAL:HG23	4:D:387:THR:HG21	1.93	0.50
5:E:122:GLN:HA	5:E:125:ASP:HB2	1.93	0.50
5:E:421:GLY:HA2	5:E:424:ALA:HB3	1.93	0.50
5:E:501:MET:SD	5:E:506:VAL:HB	2.52	0.50
6:F:117:ARG:HH11	6:F:517:LEU:HD13	1.76	0.50
8:H:483:GLU:HB3	8:H:489:VAL:O	2.12	0.50
1:I:408:VAL:HA	1:I:507:THR:N	2.27	0.50
3:K:141:SER:HG	3:K:408:VAL:HG12	1.77	0.50
4:L:137:PHE:CD2	4:L:527:ARG:HB3	2.47	0.50
4:L:298:LEU:O	4:L:324:VAL:HG12	2.12	0.50
5:M:153:ASP:HA	5:M:417:ARG:NE	2.27	0.50
5:M:208:LEU:O	5:M:382:ALA:HA	2.12	0.50
5:M:426:GLU:HB3	5:M:455:LEU:HB3	1.94	0.50
6:N:221:MET:HB2	6:N:306:SER:OG	2.11	0.50
6:N:342:ASP:OD1	6:N:343:CYS:N	2.44	0.50
7:O:418:LYS:HZ3	7:O:465:ARG:HB3	1.77	0.50
8:P:460:ALA:O	8:P:464:ILE:N	2.26	0.50
1:A:58:GLY:O	1:A:62:LEU:N	2.28	0.49
1:A:213:GLY:N	1:A:373:ALA:HA	2.27	0.49
2:B:190:LEU:HD21	2:B:199:ILE:HG12	1.94	0.49
3:C:123:ILE:HA	3:C:126:TYR:HD2	1.77	0.49
4:D:284:LEU:HB3	4:D:288:LYS:NZ	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:433:ALA:HB2	4:D:458:MET:HB2	1.93	0.49
4:D:450:CYS:O	4:D:454:PHE:N	2.32	0.49
4:D:466:ALA:HB3	4:D:473:PRO:HA	1.94	0.49
6:F:210:LEU:HD21	6:F:323:ARG:HB2	1.93	0.49
6:F:293:ASN:ND2	6:F:296:GLY:O	2.44	0.49
8:H:276:MET:O	8:H:280:VAL:HG12	2.12	0.49
8:H:347:CYS:HG	8:H:365:HIS:CE1	2.30	0.49
8:H:408:LEU:HB3	8:H:498:LEU:HB3	1.93	0.49
1:I:128:ALA:O	1:I:132:ILE:HG13	2.12	0.49
2:J:424:LEU:O	2:J:428:THR:N	2.29	0.49
3:K:111:HIS:CG	3:K:112:PHE:N	2.80	0.49
4:L:171:LEU:HA	4:L:174:LYS:HB2	1.94	0.49
5:M:49:ARG:HB2	5:M:461:ALA:HB1	1.94	0.49
5:M:457:VAL:O	5:M:460:MET:HB3	2.12	0.49
7:O:522:ASN:HD21	8:P:75:GLU:HB3	1.76	0.49
8:P:25:LEU:HG	8:P:29:VAL:HG22	1.93	0.49
8:P:281:LYS:HG2	8:P:285:ASP:OD2	2.12	0.49
11:3:63:MET:SD	11:3:66:ASN:ND2	2.76	0.49
11:3:84:THR:HG22	13:5:67:THR:OG1	2.12	0.49
1:A:36:LEU:HD13	1:A:451:THR:HG21	1.94	0.49
2:B:465:LEU:CD1	2:B:477:GLY:HA2	2.42	0.49
3:C:48:LYS:HE2	6:F:520:GLU:HB3	1.93	0.49
3:C:134:ILE:O	3:C:138:LYS:HG2	2.11	0.49
3:C:330:ARG:HG2	3:C:342:ASP:O	2.12	0.49
4:D:452:ARG:HH12	5:M:478:ARG:NH2	2.10	0.49
5:E:260:PRO:HD2	5:E:264:HIS:HD1	1.77	0.49
5:E:349:THR:HG23	5:E:352:LYS:H	1.76	0.49
6:F:217:ARG:NH2	6:F:238:GLU:OE1	2.46	0.49
7:G:459:ASN:ND2	1:I:112:ILE:HD11	2.27	0.49
8:H:284:ALA:HB2	8:H:308:TYR:HB3	1.93	0.49
8:H:442:ALA:HA	8:H:445:PHE:CE2	2.47	0.49
1:I:485:TRP:NE1	1:I:495:PRO:HB3	2.27	0.49
2:J:322:ARG:HE	2:J:372:THR:N	2.09	0.49
2:J:411:GLY:HA2	2:J:414:GLU:HG2	1.94	0.49
2:J:461:LEU:HD11	2:J:478:LEU:HG	1.92	0.49
4:L:123:LEU:HD21	4:L:450:CYS:HA	1.94	0.49
4:L:155:VAL:HG22	4:L:420:ALA:H	1.76	0.49
4:L:233:VAL:HG12	4:L:234:SER:H	1.77	0.49
5:M:122:GLN:HA	5:M:125:ASP:HB2	1.94	0.49
5:M:257:PRO:HA	7:O:258:HIS:HE1	1.76	0.49
5:M:322:VAL:HG22	5:M:372:LEU:HD13	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:352:GLU:HA	6:N:361:THR:HA	1.94	0.49
7:O:157:LYS:HD3	7:O:160:MET:HE3	1.94	0.49
7:O:320:LYS:HZ2	7:O:330:ILE:HG21	1.76	0.49
8:P:26:GLU:HA	8:P:30:TYR:CD2	2.47	0.49
8:P:47:TYR:HD1	8:P:102:ASN:HB2	1.77	0.49
8:P:455:ASN:ND2	8:P:480:LEU:HD21	2.27	0.49
10:2:36:GLU:HB2	10:2:113:LYS:HE3	1.93	0.49
12:4:112:LEU:O	12:4:116:LYS:N	2.42	0.49
1:A:471:HIS:HB2	7:O:425:ARG:NH2	2.28	0.49
2:B:71:LEU:HD13	2:B:85:VAL:HG13	1.94	0.49
2:B:113:ALA:HB2	2:B:130:TRP:CH2	2.47	0.49
2:B:157:GLN:O	2:B:161:ASN:N	2.40	0.49
3:C:51:LEU:O	6:F:523:ARG:HA	2.12	0.49
3:C:80:MET:O	3:C:84:SER:N	2.38	0.49
3:C:144:VAL:HB	3:C:407:LEU:HG	1.93	0.49
3:C:174:ASN:O	3:C:178:ASP:N	2.45	0.49
3:C:276:GLN:O	3:C:280:GLU:HG2	2.11	0.49
4:D:290:ILE:HG12	4:D:351:PHE:CE2	2.48	0.49
4:D:481:ARG:HH22	5:M:446:TYR:HB2	1.76	0.49
5:E:152:SER:HB2	5:E:418:VAL:O	2.11	0.49
6:F:167:VAL:HG11	6:F:202:THR:HB	1.93	0.49
8:H:177:VAL:HA	8:H:180:ALA:HB3	1.93	0.49
1:I:415:VAL:HA	1:I:486:ILE:HG12	1.94	0.49
2:J:54:SER:HB2	2:J:60:SER:HB2	1.95	0.49
2:J:112:GLU:O	2:J:116:LEU:HG	2.13	0.49
2:J:130:TRP:O	2:J:134:THR:N	2.42	0.49
2:J:380:GLN:O	2:J:384:ASP:N	2.44	0.49
3:K:144:VAL:HG11	3:K:155:ILE:HG21	1.94	0.49
3:K:395:MET:HA	3:K:398:CYS:HB2	1.95	0.49
4:L:248:LEU:O	4:L:344:PRO:HA	2.12	0.49
5:M:63:ASP:HB2	5:M:67:ASP:HB2	1.94	0.49
5:M:198:ASP:H	5:M:201:ARG:NE	2.10	0.49
5:M:247:LYS:HE2	5:M:298:ASN:N	2.28	0.49
5:M:285:PHE:HZ	7:O:263:TYR:HE2	1.59	0.49
6:N:422:LEU:HD21	6:N:437:VAL:HB	1.93	0.49
7:O:19:ILE:HG22	7:O:23:VAL:HG23	1.94	0.49
7:O:303:PHE:CG	7:O:310:CYS:HB2	2.47	0.49
7:O:487:ASN:HA	7:O:490:ALA:HB3	1.94	0.49
1:A:327:ILE:HD12	1:A:328:LEU:H	1.77	0.49
1:A:506:PRO:HD2	1:A:509:VAL:HG21	1.94	0.49
2:B:285:HIS:CE1	2:B:339:GLU:HA	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:38:ILE:HG22	4:D:42:LYS:NZ	2.27	0.49
4:D:60:MET:HG2	4:D:70:ILE:CG1	2.38	0.49
4:D:408:ALA:HA	4:D:411:VAL:HG22	1.93	0.49
5:E:182:HIS:NE2	5:E:220:GLU:HG2	2.27	0.49
5:E:252:THR:H	5:E:341:ILE:HG22	1.75	0.49
5:E:310:ALA:HA	5:E:313:LEU:HB2	1.94	0.49
5:E:409:ILE:O	5:E:413:ILE:HG13	2.13	0.49
6:F:46:MET:O	6:F:47:LEU:HD12	2.13	0.49
6:F:82:THR:HA	6:F:85:ASP:HB3	1.93	0.49
6:F:174:ASP:HB3	6:F:206:LEU:HD22	1.94	0.49
6:F:291:VAL:O	6:F:312:ALA:HA	2.13	0.49
7:G:79:LEU:HD13	7:G:509:ALA:HB3	1.94	0.49
7:G:190:LEU:HA	7:G:397:ARG:HG2	1.94	0.49
8:H:224:LYS:HA	8:H:360:VAL:HG22	1.94	0.49
8:H:350:VAL:HG13	8:H:363:PHE:CE1	2.48	0.49
1:I:408:VAL:HG12	1:I:506:PRO:HA	1.93	0.49
1:I:522:ILE:HG23	1:I:525:LEU:HD12	1.95	0.49
2:J:399:GLN:HE22	2:J:499:VAL:H	1.60	0.49
3:K:168:TRP:CZ2	3:K:383:ILE:HG12	2.47	0.49
3:K:435:TRP:HB2	3:K:436:PRO:HD3	1.93	0.49
4:L:49:ARG:HH11	4:L:111:ILE:HB	1.76	0.49
5:M:230:VAL:HG21	5:M:325:VAL:HG22	1.95	0.49
5:M:344:ARG:HD2	7:O:275:TYR:OH	2.12	0.49
7:O:136:ILE:HA	7:O:139:ILE:HG22	1.95	0.49
11:3:65:LEU:HD23	12:4:31:SER:OG	2.11	0.49
11:3:103:THR:OG1	12:4:73:ASP:O	2.24	0.49
1:A:189:ARG:HB3	1:A:193:ASN:OD1	2.13	0.49
2:B:178:HIS:CE1	2:B:182:LEU:HD11	2.48	0.49
2:B:224:ILE:HB	2:B:312:ILE:HD13	1.94	0.49
3:C:509:ALA:O	3:C:513:ALA:N	2.36	0.49
4:D:153:ARG:O	4:D:421:LEU:N	2.39	0.49
4:D:453:ALA:HA	4:D:456:ASP:HB2	1.95	0.49
5:E:248:ILE:HD11	5:E:301:ILE:HG12	1.94	0.49
5:E:268:VAL:HG13	5:E:277:LEU:HD22	1.93	0.49
6:F:93:THR:O	6:F:97:LEU:HG	2.12	0.49
6:F:416:VAL:HG21	6:F:466:ILE:HG23	1.94	0.49
7:G:18:GLY:O	7:G:517:ASP:HB2	2.12	0.49
7:G:457:ALA:O	7:G:461:LEU:HG	2.13	0.49
8:H:116:GLU:O	8:H:120:ARG:N	2.44	0.49
8:H:187:CYS:O	8:H:190:ILE:HG12	2.13	0.49
8:H:242:TYR:CD2	8:H:245:PRO:HB3	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:10:ASP:O	4:L:59:LYS:NZ	2.34	0.49
1:I:292:ILE:HD11	1:I:297:LEU:HA	1.94	0.49
1:I:299:TYR:CE2	3:K:331:ILE:HB	2.48	0.49
2:J:259:ASP:OD1	4:L:265:VAL:HG21	2.12	0.49
2:J:519:ASN:OD1	2:J:520:ILE:N	2.45	0.49
3:K:174:ASN:HA	3:K:177:LEU:HD12	1.95	0.49
3:K:183:VAL:CG1	3:K:198:TYR:HB3	2.42	0.49
3:K:205:PRO:HB3	3:K:381:LYS:HD2	1.93	0.49
3:K:458:SER:O	3:K:462:LEU:HG	2.12	0.49
5:M:128:ILE:HA	5:M:132:ARG:CZ	2.43	0.49
5:M:299:LEU:HD22	5:M:359:VAL:HG11	1.95	0.49
5:M:433:VAL:O	5:M:437:ALA:N	2.44	0.49
6:N:31:GLN:NE2	6:N:100:GLY:H	2.10	0.49
6:N:280:LYS:NZ	6:N:338:ASP:OD2	2.45	0.49
7:O:224:GLY:HA2	7:O:227:MET:HG2	1.93	0.49
7:O:423:TYR:O	7:O:428:PRO:HD3	2.13	0.49
8:P:248:GLY:C	8:P:255:GLY:H	2.16	0.49
13:5:47:LYS:O	13:5:51:ASN:N	2.46	0.49
13:5:66:LEU:H	13:5:71:TYR:HA	1.77	0.49
14:6:40:ASN:HB3	14:6:80:LEU:HB2	1.94	0.49
1:A:273:GLU:HG2	1:A:277:LYS:NZ	2.27	0.49
3:C:242:ASP:HA	3:C:293:GLU:HG2	1.95	0.49
3:C:278:LEU:HD22	3:C:336:GLU:HA	1.95	0.49
3:C:426:SER:OG	3:C:437:TYR:HB2	2.12	0.49
4:D:189:ASN:O	4:D:193:LYS:N	2.33	0.49
4:D:413:ARG:O	4:D:417:LYS:HB2	2.13	0.49
4:D:478:THR:HG23	4:D:481:ARG:NH2	2.26	0.49
5:E:219:LEU:HD11	5:E:394:ILE:HD12	1.94	0.49
6:F:423:ILE:HD11	6:F:441:ALA:HB3	1.94	0.49
1:I:418:ALA:HB2	1:I:471:HIS:HB3	1.95	0.49
2:J:452:ASP:C	2:J:455:GLY:H	2.15	0.49
3:K:230:ARG:HH21	3:K:310:THR:HG21	1.77	0.49
4:L:98:GLN:HG2	4:L:105:GLY:O	2.12	0.49
4:L:151:MET:HG3	4:L:504:LEU:HD21	1.94	0.49
4:L:186:MET:HA	4:L:223:LEU:HD22	1.95	0.49
4:L:207:ASP:OD2	4:L:384:LYS:HD2	2.12	0.49
4:L:280:ARG:HG2	4:L:312:LEU:HB3	1.94	0.49
5:M:196:VAL:HG23	5:M:197:ALA:H	1.77	0.49
5:M:255:PHE:HA	5:M:285:PHE:CZ	2.47	0.49
5:M:344:ARG:HD3	7:O:271:TRP:CG	2.47	0.49
5:M:516:GLN:O	5:M:520:ALA:N	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:12:GLU:O	6:N:522:MET:HG3	2.12	0.49
6:N:210:LEU:HB3	6:N:363:ILE:HB	1.94	0.49
7:O:36:VAL:HG11	7:O:98:THR:HB	1.93	0.49
7:O:167:LEU:HD22	7:O:384:GLU:HB3	1.94	0.49
7:O:325:ALA:O	7:O:367:ALA:N	2.35	0.49
8:P:207:ILE:HG21	8:P:358:THR:OG1	2.12	0.49
8:P:228:GLU:CB	8:P:314:ARG:HE	2.26	0.49
8:P:330:ALA:HA	8:P:342:GLU:O	2.12	0.49
10:2:34:ARG:NH2	10:2:120:GLU:OE2	2.44	0.49
1:A:279:LEU:HD22	1:A:303:ALA:HB1	1.95	0.49
1:A:460:SER:O	1:A:464:VAL:N	2.33	0.49
1:A:481:LYS:HB2	1:A:486:ILE:HG21	1.95	0.49
2:B:25:ARG:HG3	2:B:29:PHE:CZ	2.47	0.49
2:B:139:GLU:O	2:B:143:SER:N	2.43	0.49
3:C:378:GLY:N	3:C:384:LEU:HD13	2.27	0.49
5:E:86:GLN:HA	5:E:89:LYS:HB3	1.94	0.49
5:E:424:ALA:HB1	5:E:487:PRO:HD2	1.94	0.49
6:F:224:ARG:HD2	6:F:349:LEU:HD11	1.94	0.49
7:G:71:VAL:HG12	7:G:73:HIS:H	1.78	0.49
7:G:414:MET:HB3	7:G:465:ARG:CD	2.41	0.49
8:H:282:ALA:HB2	8:H:338:PRO:HB3	1.94	0.49
8:H:348:ASP:H	8:H:365:HIS:HB3	1.78	0.49
4:L:138:GLN:HE21	4:L:142:GLU:HG3	1.78	0.49
4:L:215:GLY:N	4:L:392:GLY:O	2.45	0.49
4:L:227:LEU:HD11	4:L:335:PHE:HB3	1.95	0.49
4:L:421:LEU:HD13	4:L:509:VAL:HG11	1.94	0.49
5:M:228:VAL:N	5:M:374:ILE:O	2.46	0.49
5:M:533:ILE:HG22	5:M:535:LYS:HG3	1.94	0.49
6:N:46:MET:H	8:P:522:ASP:H	1.60	0.49
7:O:500:ILE:H	7:O:500:ILE:HD12	1.78	0.49
8:P:249:MET:O	8:P:279:GLN:NE2	2.46	0.49
8:P:502:LEU:HB3	8:P:506:TRP:CD1	2.48	0.49
2:B:16:ALA:N	5:E:82:ASP:HB2	2.28	0.49
2:B:282:ILE:HD13	2:B:290:PHE:CE1	2.48	0.49
2:B:448:THR:HG22	2:B:458:SER:HB3	1.94	0.49
3:C:156:ILE:HG21	3:C:173:CYS:HB3	1.95	0.49
4:D:167:ALA:O	4:D:171:LEU:N	2.40	0.49
5:E:42:LYS:HG3	5:E:43:ALA:H	1.78	0.49
5:E:86:GLN:O	5:E:90:LEU:N	2.36	0.49
6:F:72:PRO:O	6:F:76:LEU:HG	2.13	0.49
6:F:145:ARG:HG3	6:F:173:VAL:HG11	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:186:LEU:CD1	7:G:370:CYS:H	2.16	0.49
1:I:148:LEU:HD22	1:I:399:VAL:HG22	1.95	0.49
1:I:258:GLU:HB2	3:K:334:ARG:NH1	2.28	0.49
2:J:68:ALA:O	2:J:72:LYS:N	2.38	0.49
2:J:189:ARG:HG3	2:J:195:ASN:ND2	2.28	0.49
3:K:149:SER:O	3:K:153:LEU:N	2.46	0.49
3:K:216:ARG:O	3:K:370:LYS:HE3	2.12	0.49
3:K:407:LEU:CB	3:K:499:LEU:H	2.25	0.49
4:L:421:LEU:HD23	4:L:511:PRO:HA	1.94	0.49
5:M:180:SER:C	5:M:182:HIS:H	2.16	0.49
5:M:256:GLU:HB2	5:M:257:PRO:HD2	1.95	0.49
5:M:403:HIS:O	5:M:407:CYS:N	2.30	0.49
5:M:493:CYS:H	5:M:504:GLN:NE2	2.08	0.49
5:M:496:LYS:HE3	5:M:498:THR:HB	1.95	0.49
6:N:277:LEU:HA	6:N:280:LYS:HD2	1.94	0.49
8:P:178:PHE:CE2	8:P:213:SER:HA	2.48	0.49
8:P:427:GLY:O	8:P:435:GLN:HG3	2.12	0.49
10:2:61:LEU:HG	10:2:66:GLU:OE2	2.12	0.49
11:3:61:LYS:HD3	12:4:23:ILE:CG2	2.41	0.49
1:A:208:SER:HB2	1:A:377:LEU:HG	1.94	0.49
1:A:413:GLY:N	1:A:488:LEU:HD22	2.27	0.49
2:B:222:LYS:HE3	2:B:315:ALA:HA	1.93	0.49
3:C:248:LYS:HA	3:C:254:THR:HG22	1.94	0.49
3:C:283:ILE:HD13	3:C:303:TYR:CE2	2.48	0.49
3:C:301:GLN:HG2	3:C:311:ALA:CB	2.40	0.49
4:D:260:MET:HG2	4:D:261:ASP:N	2.28	0.49
5:E:232:LYS:HB2	5:E:372:LEU:HB2	1.94	0.49
5:E:257:PRO:HA	5:E:288:MET:HE1	1.93	0.49
5:E:469:ASN:HB2	5:E:472:GLN:HB3	1.95	0.49
6:F:145:ARG:NH1	6:F:149:ILE:HD11	2.27	0.49
6:F:319:ARG:O	6:F:323:ARG:N	2.28	0.49
6:F:428:SER:OG	6:F:430:LYS:O	2.30	0.49
7:G:128:ALA:HA	7:G:131:LEU:HD12	1.94	0.49
7:G:465:ARG:HB3	1:I:435:GLN:HE22	1.76	0.49
7:G:522:ASN:HD22	8:H:58:ASN:HA	1.78	0.49
8:H:241:VAL:O	8:H:332:ALA:HA	2.12	0.49
1:I:11:ARG:HA	4:L:59:LYS:HZ3	1.77	0.49
1:I:47:ASP:O	3:K:525:GLY:HA2	2.13	0.49
2:J:83:VAL:O	2:J:87:MET:N	2.43	0.49
3:K:220:ILE:HD11	3:K:323:ILE:HG21	1.94	0.49
3:K:232:TYR:HE1	3:K:352:ILE:H	1.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:139:LYS:HD3	4:L:443:LEU:HD21	1.94	0.49
4:L:209:LYS:HD3	4:L:228:VAL:O	2.12	0.49
6:N:85:ASP:HA	6:N:89:GLY:HA2	1.94	0.49
6:N:135:GLU:HG2	6:N:502:LYS:NZ	2.27	0.49
6:N:172:VAL:HG13	6:N:395:LEU:HA	1.95	0.49
6:N:195:GLU:HA	6:N:376:ILE:HB	1.94	0.49
7:O:275:TYR:O	7:O:279:GLU:N	2.40	0.49
7:O:321:ARG:HG2	7:O:369:THR:HG21	1.94	0.49
8:P:223:PHE:HB2	8:P:361:VAL:CG1	2.43	0.49
11:3:52:LYS:HB2	11:3:174:VAL:HG21	1.95	0.49
1:A:80:ASP:OD1	1:A:84:LYS:HG3	2.13	0.49
1:A:195:VAL:HB	1:A:197:ILE:HG12	1.95	0.49
1:A:418:ALA:O	1:A:422:TYR:N	2.33	0.49
1:A:452:LEU:HD11	1:A:490:LEU:O	2.13	0.49
2:B:19:GLU:O	2:B:520:ILE:N	2.40	0.49
2:B:29:PHE:CD2	2:B:114:GLU:HG2	2.48	0.49
2:B:323:LEU:HD13	2:B:362:PHE:CD2	2.47	0.49
2:B:352:VAL:HB	2:B:361:HIS:ND1	2.28	0.49
3:C:219:MET:HE1	3:C:373:THR:O	2.13	0.49
4:D:117:LEU:HA	4:D:120:CYS:HB2	1.95	0.49
4:D:314:LEU:HD12	4:D:317:LEU:HD23	1.94	0.49
4:D:340:ILE:HB	4:D:379:CYS:SG	2.53	0.49
4:D:448:SER:HB2	4:D:452:ARG:HH12	1.77	0.49
5:E:254:PRO:HB2	5:E:288:MET:SD	2.53	0.49
5:E:342:VAL:HG13	5:E:347:GLU:O	2.11	0.49
5:E:508:GLU:CD	5:E:513:LYS:HE3	2.33	0.49
6:F:70:GLN:OE1	8:H:18:GLY:HA2	2.13	0.49
6:F:239:TYR:CG	6:F:240:GLU:N	2.80	0.49
6:F:352:GLU:HG2	6:F:359:LYS:HB3	1.95	0.49
6:F:496:ASP:OD1	6:F:500:VAL:HB	2.12	0.49
7:G:285:GLY:H	7:G:342:LEU:HD11	1.77	0.49
7:G:291:SER:O	7:G:313:ARG:N	2.46	0.49
8:H:421:LYS:CE	8:H:468:TYR:HA	2.42	0.49
1:I:390:ARG:HD3	1:I:393:HIS:CE1	2.48	0.49
2:J:411:GLY:HA3	2:J:447:PRO:HG3	1.95	0.49
3:K:38:ARG:HE	3:K:450:THR:HG21	1.78	0.49
3:K:245:LEU:HG	3:K:278:LEU:HB3	1.95	0.49
4:L:179:TYR:CD2	4:L:218:ILE:HD12	2.48	0.49
4:L:306:ARG:O	4:L:306:ARG:HG2	2.12	0.49
5:M:163:GLU:O	5:M:166:ILE:HG13	2.12	0.49
5:M:422:GLY:O	5:M:459:PRO:HB3	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:46:MET:HB3	8:P:522:ASP:O	2.13	0.49
7:O:446:PRO:HB2	7:O:461:LEU:HD21	1.95	0.49
7:O:467:ARG:HG2	7:O:475:TYR:CE2	2.48	0.49
9:1:99:SER:O	9:1:103:ARG:NH1	2.45	0.49
13:5:94:LYS:HE2	13:5:102:PHE:CE2	2.48	0.49
14:6:75:THR:O	14:6:79:ARG:HG2	2.12	0.49
1:A:354:GLU:HB3	1:A:363:LEU:HD13	1.94	0.48
1:A:399:VAL:HG13	1:A:403:LEU:HD12	1.94	0.48
2:B:141:LEU:HA	2:B:144:SER:HB2	1.95	0.48
2:B:498:GLN:HA	2:B:501:ARG:NE	2.29	0.48
3:C:230:ARG:HA	9:1:118:ALA:HA	1.95	0.48
3:C:354:LYS:HB2	3:C:359:TYR:CD1	2.48	0.48
4:D:240:ARG:HG3	4:D:362:ALA:O	2.13	0.48
5:E:61:MET:SD	5:E:80:MET:HB3	2.53	0.48
5:E:281:GLU:HA	7:G:260:VAL:HG21	1.93	0.48
5:E:471:ILE:HD12	4:L:126:LYS:HE2	1.94	0.48
5:E:482:VAL:HG21	4:L:444:SER:HB3	1.95	0.48
5:E:489:LEU:HA	5:E:501:MET:N	2.17	0.48
6:F:228:ALA:H	6:F:346:HIS:CE1	2.31	0.48
7:G:155:LEU:HD21	7:G:400:ILE:HD11	1.94	0.48
7:G:207:ASP:O	7:G:375:ARG:NE	2.46	0.48
8:H:150:SER:H	8:H:152:LYS:NZ	2.11	0.48
1:I:41:LEU:HD13	3:K:518:ARG:HA	1.95	0.48
1:I:107:LEU:HD22	1:I:433:ARG:HH11	1.78	0.48
1:I:122:ARG:O	1:I:125:CYS:HB3	2.13	0.48
1:I:412:GLY:HA3	1:I:488:LEU:HD23	1.95	0.48
2:J:72:LYS:NZ	2:J:89:ARG:HB2	2.28	0.48
2:J:147:ASP:OD1	2:J:404:SER:HB2	2.13	0.48
2:J:152:GLU:O	2:J:156:ARG:N	2.28	0.48
2:J:226:VAL:HG12	2:J:227:ASN:N	2.26	0.48
2:J:500:LYS:O	2:J:504:LEU:HG	2.12	0.48
3:K:207:GLY:HA3	3:K:377:ARG:HD3	1.93	0.48
4:L:37:ASN:HD22	4:L:87:ALA:HB2	1.78	0.48
4:L:99:ASP:O	4:L:103:GLY:N	2.44	0.48
5:M:500:ASP:O	5:M:504:GLN:HB3	2.13	0.48
6:N:465:LYS:HD2	6:N:486:PRO:HG3	1.95	0.48
6:N:479:VAL:HG13	6:N:484:GLY:HA2	1.95	0.48
7:O:27:SER:O	7:O:31:VAL:HG23	2.13	0.48
7:O:81:ASP:O	7:O:85:SER:N	2.36	0.48
7:O:524:ARG:HG2	7:O:525:SER:H	1.78	0.48
8:P:148:CYS:HB2	8:P:410:PRO:HD3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:1:20:VAL:HG12	9:1:105:VAL:O	2.13	0.48
9:1:38:ASN:O	9:1:41:LYS:HB3	2.13	0.48
1:A:168:PHE:HE1	1:A:208:SER:OG	1.96	0.48
1:A:328:LEU:HA	1:A:331:LEU:HB2	1.96	0.48
2:B:218:PHE:HB2	2:B:326:VAL:CG2	2.44	0.48
3:C:321:ASN:HA	3:C:324:ALA:HB3	1.95	0.48
3:C:484:THR:HG21	3:C:488:VAL:HG11	1.95	0.48
4:D:41:ALA:HB2	4:D:87:ALA:HB1	1.94	0.48
4:D:246:ILE:HD13	4:D:297:VAL:HB	1.95	0.48
5:E:477:VAL:HA	5:E:480:ARG:HB2	1.94	0.48
6:F:446:ILE:O	6:F:450:VAL:N	2.35	0.48
7:G:136:ILE:O	7:G:139:ILE:HG22	2.14	0.48
8:H:125:VAL:HG13	8:H:126:SER:H	1.77	0.48
8:H:183:ILE:HA	8:H:186:ALA:HB2	1.96	0.48
1:I:109:LYS:HG3	4:L:467:GLU:O	2.13	0.48
1:I:226:PRO:HD2	1:I:305:ALA:O	2.13	0.48
2:J:52:LEU:N	2:J:62:MET:O	2.46	0.48
2:J:275:MET:SD	2:J:300:PRO:HG3	2.53	0.48
3:K:128:LYS:HE2	3:K:433:GLU:HB2	1.95	0.48
3:K:418:VAL:HG12	3:K:422:LEU:HG	1.95	0.48
3:K:420:HIS:HB3	3:K:470:HIS:CE1	2.48	0.48
5:M:475:THR:HA	5:M:478:ARG:HD3	1.94	0.48
5:M:529:LYS:NZ	7:O:44:GLY:O	2.38	0.48
5:M:533:ILE:HA	7:O:48:LEU:O	2.12	0.48
6:N:28:ARG:HD2	6:N:104:LYS:HG3	1.95	0.48
6:N:46:MET:HB2	8:P:521:VAL:HB	1.95	0.48
7:O:63:ALA:HA	7:O:66:LEU:HD12	1.95	0.48
8:P:112:LEU:HD21	8:P:515:ALA:HB1	1.95	0.48
8:P:386:ASP:O	8:P:389:GLU:HB3	2.13	0.48
11:3:75:LYS:O	11:3:79:PRO:HD3	2.13	0.48
1:A:247:LYS:NZ	3:C:273:GLU:OE1	2.43	0.48
2:B:138:ARG:HH22	2:B:505:LEU:CA	2.26	0.48
2:B:218:PHE:HD2	2:B:362:PHE:CD2	2.30	0.48
2:B:399:GLN:HB3	2:B:498:GLN:HE21	1.79	0.48
2:B:464:GLN:N	2:J:430:GLY:O	2.46	0.48
3:C:358:GLU:HB2	3:C:360:PHE:CE1	2.49	0.48
4:D:37:ASN:HA	4:D:85:HIS:CE1	2.45	0.48
4:D:212:LYS:HE3	4:D:398:ILE:HD13	1.95	0.48
5:E:234:PHE:CG	5:E:241:LYS:HG2	2.48	0.48
6:F:76:LEU:HA	6:F:79:LYS:HZ3	1.78	0.48
7:G:124:ALA:HB2	7:G:431:GLN:CG	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:258:HIS:CG	7:G:259:THR:H	2.30	0.48
8:H:118:LEU:O	8:H:122:GLY:N	2.45	0.48
8:H:283:ILE:HG21	8:H:291:VAL:HB	1.95	0.48
1:I:41:LEU:HD22	3:K:518:ARG:HG2	1.94	0.48
1:I:42:ASP:HB2	3:K:518:ARG:HD3	1.95	0.48
1:I:234:ILE:HG23	1:I:351:VAL:HG21	1.95	0.48
3:K:212:SER:HB2	3:K:377:ARG:CB	2.40	0.48
3:K:465:SER:HB3	3:K:487:LEU:HD11	1.93	0.48
6:N:31:GLN:HE21	6:N:97:LEU:HA	1.78	0.48
6:N:198:HIS:HD2	6:N:200:SER:HB2	1.78	0.48
6:N:214:HIS:HA	6:N:359:LYS:O	2.14	0.48
6:N:250:TYR:CD1	6:N:256:ARG:HG2	2.47	0.48
6:N:281:VAL:HG22	6:N:341:PRO:HB3	1.94	0.48
6:N:289:PHE:CE1	6:N:344:LEU:HD13	2.42	0.48
6:N:317:LYS:HB2	6:N:320:ASN:H	1.78	0.48
9:1:80:LEU:HD13	10:2:77:VAL:HG21	1.95	0.48
4:D:366:ASN:ND2	4:D:372:LYS:HB2	2.28	0.48
5:E:127:GLY:O	4:L:474:ILE:HD11	2.14	0.48
5:E:257:PRO:HG2	7:G:260:VAL:HB	1.95	0.48
6:F:245:ASN:HB2	6:F:256:ARG:HG2	1.95	0.48
6:F:279:ARG:HA	6:F:283:GLY:HA2	1.95	0.48
7:G:193:LYS:HG3	7:G:194:MET:H	1.78	0.48
7:G:278:LEU:HD22	7:G:303:PHE:CE1	2.48	0.48
7:G:289:VAL:O	7:G:311:ALA:N	2.43	0.48
8:H:16:LYS:HG3	8:H:18:GLY:N	2.28	0.48
8:H:249:MET:HA	8:H:336:LEU:HD22	1.94	0.48
1:I:411:GLY:H	1:I:504:PHE:HD1	1.59	0.48
2:J:67:GLY:O	2:J:71:LEU:N	2.31	0.48
2:J:109:LEU:HB3	2:J:130:TRP:CH2	2.47	0.48
2:J:263:LYS:HD3	2:J:266:GLU:OE1	2.12	0.48
3:K:422:LEU:HD12	3:K:441:ALA:HA	1.95	0.48
4:L:390:VAL:HG12	4:L:398:ILE:HG23	1.95	0.48
4:L:463:SER:HA	4:L:480:LEU:CD1	2.39	0.48
5:M:49:ARG:O	5:M:465:ASN:ND2	2.44	0.48
5:M:460:MET:HG3	5:M:470:PRO:HB2	1.95	0.48
7:O:90:VAL:HG21	7:O:498:VAL:HG13	1.94	0.48
7:O:235:PRO:HB2	7:O:237:ILE:HG13	1.95	0.48
8:P:138:LYS:NZ	8:P:142:ILE:HD11	2.28	0.48
8:P:142:ILE:HG22	8:P:146:LEU:HG	1.95	0.48
8:P:203:ARG:HD3	8:P:323:ARG:HG2	1.94	0.48
8:P:303:HIS:O	8:P:307:LYS:HG3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:1:46:LEU:O	9:1:50:GLU:HG2	2.13	0.48
12:4:23:ILE:HG13	12:4:119:LEU:HD13	1.95	0.48
13:5:53:LEU:HD12	13:5:76:LEU:HD21	1.94	0.48
14:6:44:LYS:NZ	14:6:76:VAL:O	2.46	0.48
1:A:36:LEU:HD22	1:A:451:THR:HG23	1.95	0.48
1:A:42:ASP:O	1:A:43:LYS:HD3	2.13	0.48
1:A:54:ILE:O	1:A:55:THR:HG23	2.14	0.48
1:A:124:ALA:HB1	1:A:423:LEU:HD23	1.96	0.48
1:A:184:ILE:HA	1:A:322:ALA:HB2	1.94	0.48
1:A:466:LYS:HD3	7:O:429:GLY:HA2	1.95	0.48
2:B:522:LYS:NZ	5:E:62:VAL:HG11	2.28	0.48
3:C:296:ILE:HD11	3:C:301:GLN:HG3	1.96	0.48
4:D:352:THR:O	4:D:356:LEU:N	2.44	0.48
5:E:61:MET:O	5:E:69:THR:N	2.46	0.48
5:E:223:LYS:N	5:E:386:PHE:O	2.46	0.48
7:G:122:ILE:HG22	7:G:126:ARG:NE	2.27	0.48
7:G:322:THR:HG23	7:G:326:CYS:SG	2.53	0.48
8:H:102:ASN:HD21	8:H:171:LYS:HE3	1.78	0.48
8:H:138:LYS:HG3	8:H:423:ILE:HG13	1.94	0.48
8:H:202:ILE:HG22	8:H:373:SER:H	1.78	0.48
8:H:449:PRO:HG3	8:H:477:ASN:ND2	2.25	0.48
1:I:531:ILE:HG12	4:L:77:ILE:HG23	1.94	0.48
4:L:176:VAL:HG13	4:L:400:GLU:HB3	1.94	0.48
4:L:423:ALA:O	4:L:510:GLN:HG2	2.13	0.48
4:L:459:GLU:HB3	4:L:481:ARG:HG2	1.95	0.48
4:L:528:SER:HA	4:L:531:LYS:HB2	1.96	0.48
5:M:161:ASP:O	5:M:165:LEU:HG	2.14	0.48
5:M:173:LEU:HB3	5:M:178:VAL:O	2.13	0.48
5:M:193:VAL:HA	5:M:209:ILE:HD11	1.95	0.48
5:M:257:PRO:HA	7:O:258:HIS:CE1	2.49	0.48
5:M:500:ASP:HB2	5:M:504:GLN:H	1.77	0.48
6:N:206:LEU:HD21	6:N:208:ARG:CZ	2.44	0.48
7:O:236:LYS:HB3	7:O:285:GLY:O	2.13	0.48
7:O:288:VAL:HG13	7:O:309:PHE:CD2	2.47	0.48
8:P:234:VAL:HG23	8:P:235:LYS:H	1.78	0.48
9:1:15:GLU:HA	9:1:18:ALA:HB3	1.95	0.48
1:A:245:LYS:HE2	3:C:277:GLN:HG2	1.95	0.48
1:A:421:ILE:HD11	1:A:468:ARG:HE	1.78	0.48
1:A:476:VAL:HA	1:A:485:TRP:O	2.13	0.48
3:C:239:VAL:HG21	3:C:287:PRO:HB3	1.94	0.48
3:C:301:GLN:O	3:C:305:MET:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:248:LEU:O	4:D:345:VAL:HB	2.14	0.48
5:E:134:ALA:O	5:E:138:GLU:N	2.42	0.48
5:E:137:TYR:CD1	5:E:451:PHE:HB2	2.48	0.48
5:E:157:VAL:O	5:E:161:ASP:N	2.35	0.48
5:E:228:VAL:HG12	5:E:332:LEU:HG	1.95	0.48
5:E:260:PRO:HB3	7:G:251:ASP:O	2.12	0.48
5:E:442:THR:HG23	5:E:443:LEU:N	2.28	0.48
6:F:426:LYS:HB2	6:F:429:VAL:HA	1.95	0.48
6:F:431:GLY:O	6:F:435:LEU:HG	2.14	0.48
6:F:501:LYS:O	6:F:504:LEU:HG	2.12	0.48
7:G:275:TYR:CZ	7:G:279:GLU:HG3	2.48	0.48
7:G:431:GLN:O	7:G:435:ILE:HG12	2.14	0.48
8:H:41:GLN:HA	8:H:44:ARG:NH2	2.29	0.48
8:H:46:ALA:O	8:H:102:ASN:ND2	2.47	0.48
1:I:261:ASP:HB2	3:K:243:SER:HB3	1.95	0.48
1:I:401:ARG:O	1:I:508:ILE:HD11	2.13	0.48
2:J:479:ASP:O	2:J:484:THR:N	2.35	0.48
3:K:387:VAL:HG12	3:K:391:LEU:CD1	2.44	0.48
4:L:161:GLU:OE1	4:L:162:THR:HG23	2.13	0.48
4:L:183:LEU:HD23	4:L:405:ILE:HB	1.95	0.48
5:M:193:VAL:HG13	5:M:406:LEU:HD12	1.96	0.48
9:1:13:PHE:HD1	9:1:16:LEU:HD12	1.79	0.48
12:4:44:LYS:HD2	12:4:98:ILE:HD13	1.96	0.48
1:A:156:MET:SD	1:A:165:GLY:HA2	2.54	0.48
1:A:203:ARG:HH11	1:A:378:ARG:NH1	2.11	0.48
1:A:489:ASP:HB2	1:A:494:LYS:O	2.13	0.48
1:A:526:ARG:O	4:D:57:MET:HB3	2.14	0.48
2:B:480:MET:HA	2:B:483:GLY:HA2	1.96	0.48
3:C:293:GLU:HB3	3:C:320:ASN:ND2	2.28	0.48
3:C:317:LYS:O	3:C:321:ASN:N	2.38	0.48
4:D:379:CYS:SG	4:D:380:ALA:N	2.87	0.48
5:E:209:ILE:HA	5:E:383:VAL:O	2.14	0.48
5:E:211:VAL:HG11	5:E:399:LYS:HG2	1.95	0.48
5:E:310:ALA:O	5:E:314:LEU:N	2.46	0.48
6:F:389:ASP:OD1	6:F:390:ALA:N	2.46	0.48
6:F:460:GLN:HA	6:F:463:LEU:HB2	1.95	0.48
6:F:469:GLU:HB3	6:F:477:VAL:HG11	1.94	0.48
1:I:83:ASP:HA	1:I:87:GLY:HA2	1.95	0.48
1:I:355:ARG:HB2	1:I:360:GLU:HB2	1.95	0.48
2:J:43:LEU:HB2	2:J:100:THR:HB	1.96	0.48
2:J:75:GLY:HA2	4:L:539:ARG:HD3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:516:ARG:O	5:M:57:LEU:HB3	2.14	0.48
4:L:84:LEU:O	4:L:88:ALA:HB3	2.14	0.48
4:L:430:ILE:H	4:L:430:ILE:HD12	1.79	0.48
5:M:212:GLU:HG3	5:M:386:PHE:HD1	1.78	0.48
6:N:237:LEU:HD11	6:N:297:ILE:HG23	1.96	0.48
8:P:133:GLU:HA	8:P:136:CYS:SG	2.53	0.48
8:P:356:GLY:O	8:P:378:ARG:NH1	2.47	0.48
1:A:18:ARG:O	1:A:22:VAL:HG23	2.13	0.48
5:E:38:ILE:HD12	5:E:117:LEU:HG	1.96	0.48
5:E:489:LEU:CA	5:E:501:MET:H	2.16	0.48
6:F:141:ARG:HH22	6:F:409:PRO:HG3	1.79	0.48
8:H:41:GLN:O	8:H:44:ARG:HB2	2.13	0.48
8:H:273:GLU:HG2	8:H:300:MET:SD	2.54	0.48
4:L:320:MET:HB2	4:L:322:ILE:HD12	1.96	0.48
4:L:429:GLU:O	4:L:433:ALA:N	2.44	0.48
5:M:46:ASN:O	5:M:49:ARG:HG2	2.13	0.48
5:M:145:ILE:HG22	5:M:514:LYS:HA	1.94	0.48
5:M:247:LYS:HB3	5:M:298:ASN:H	1.78	0.48
5:M:285:PHE:CZ	7:O:263:TYR:HE2	2.31	0.48
5:M:492:ASP:OD2	5:M:497:GLY:N	2.46	0.48
6:N:469:GLU:HB2	6:N:477:VAL:HG21	1.95	0.48
7:O:247:LYS:HE2	7:O:271:TRP:HE1	1.79	0.48
7:O:274:LEU:HD21	7:O:299:ALA:HB2	1.96	0.48
7:O:430:LYS:O	7:O:432:GLN:HG2	2.13	0.48
7:O:504:THR:O	7:O:508:GLU:HG3	2.13	0.48
8:P:43:THR:HA	8:P:46:ALA:HB3	1.96	0.48
8:P:124:SER:N	8:P:127:GLU:OE1	2.40	0.48
11:3:122:LYS:CG	13:5:73:PRO:HG3	2.43	0.48
1:A:469:ALA:HA	7:O:425:ARG:O	2.14	0.48
2:B:30:ILE:HG13	2:B:31:GLY:H	1.79	0.48
2:B:235:ALA:HB3	2:B:349:ILE:HG13	1.96	0.48
3:C:36:ILE:O	3:C:39:THR:OG1	2.31	0.48
3:C:125:ALA:HA	3:C:128:LYS:HB2	1.94	0.48
3:C:198:TYR:HD1	3:C:325:ARG:NE	2.12	0.48
4:D:430:ILE:HG12	4:D:477:VAL:HG13	1.95	0.48
4:D:437:THR:HA	4:D:452:ARG:HG2	1.96	0.48
4:D:472:ASN:HB3	4:D:475:SER:HB2	1.94	0.48
5:E:284:LYS:HG3	7:G:260:VAL:HG23	1.95	0.48
5:E:434:SER:HB3	4:L:452:ARG:NH2	2.29	0.48
7:G:19:ILE:HG22	7:G:23:VAL:HG23	1.96	0.48
7:G:157:LYS:HD3	7:G:491:PHE:HE1	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:176:ALA:HA	7:G:179:VAL:HG12	1.94	0.48
7:G:214:VAL:CG1	7:G:321:ARG:HG2	2.44	0.48
8:H:27:GLU:HG2	8:H:31:ARG:CZ	2.44	0.48
8:H:154:LEU:HD21	8:H:193:ASP:HB2	1.96	0.48
8:H:397:ASN:O	8:H:400:LYS:N	2.46	0.48
8:H:465:SER:O	8:H:469:ALA:N	2.47	0.48
1:I:135:ASN:HB3	1:I:410:PRO:HD3	1.96	0.48
1:I:179:ILE:HG12	1:I:195:VAL:CG2	2.44	0.48
1:I:200:ALA:HB1	1:I:359:ASP:OD2	2.13	0.48
1:I:488:LEU:N	1:I:504:PHE:HE1	2.12	0.48
2:J:20:ARG:HG3	2:J:21:ALA:H	1.79	0.48
4:L:255:ALA:HB1	4:L:279:GLU:HA	1.96	0.48
5:M:86:GLN:O	5:M:89:LYS:HB3	2.12	0.48
5:M:250:ILE:HB	5:M:342:VAL:HB	1.96	0.48
6:N:160:VAL:HG11	6:N:390:ALA:HA	1.95	0.48
6:N:281:VAL:HG21	6:N:344:LEU:CD1	2.43	0.48
6:N:349:LEU:HD23	6:N:364:GLU:OE1	2.13	0.48
8:P:106:VAL:HG21	8:P:451:ALA:HB2	1.96	0.48
8:P:226:GLU:OE1	8:P:314:ARG:NH2	2.47	0.48
10:2:30:PHE:O	10:2:34:ARG:NH1	2.47	0.48
13:5:84:ILE:N	13:5:92:VAL:O	2.31	0.48
1:A:255:THR:HG22	9:1:100:TYR:HB2	1.96	0.48
1:A:527:ILE:HG13	4:D:58:ASP:O	2.14	0.48
2:B:149:GLY:HA2	2:B:155:PHE:CA	2.43	0.48
2:B:519:ASN:ND2	5:E:50:THR:OG1	2.26	0.48
3:C:228:ARG:CD	3:C:312:ILE:HG23	2.44	0.48
3:C:291:ILE:HD11	3:C:315:VAL:HG21	1.95	0.48
4:D:33:ILE:O	4:D:37:ASN:N	2.29	0.48
4:D:314:LEU:HA	4:D:317:LEU:HB3	1.96	0.48
6:F:37:ASN:OD1	6:F:58:LYS:HG3	2.14	0.48
6:F:47:LEU:HB2	6:F:55:LYS:HE2	1.95	0.48
6:F:506:HIS:O	6:F:510:VAL:HG12	2.14	0.48
7:G:218:LYS:NZ	7:G:357:ARG:H	2.12	0.48
8:H:47:TYR:O	8:H:452:LEU:HD21	2.14	0.48
1:I:32:VAL:HG21	1:I:94:VAL:HG11	1.96	0.48
1:I:494:LYS:HB2	1:I:496:ARG:CZ	2.43	0.48
2:J:201:ILE:HD13	2:J:373:ILE:HB	1.96	0.48
2:J:445:MET:O	2:J:448:THR:N	2.45	0.48
3:K:512:THR:O	3:K:516:LEU:HG	2.13	0.48
4:L:152:SER:OG	4:L:512:LEU:HD22	2.14	0.48
6:N:294:GLN:HA	6:N:315:ARG:HA	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:450:VAL:O	6:N:453:GLN:HB3	2.14	0.48
6:N:463:LEU:HD12	6:N:466:ILE:HB	1.95	0.48
8:P:237:ALA:CB	8:P:347:CYS:HB2	2.44	0.48
10:2:60:THR:HB	11:3:143:LEU:HD11	1.96	0.48
11:3:79:PRO:HA	11:3:82:LYS:HB3	1.96	0.48
11:3:104:ARG:NH2	14:6:57:PHE:HZ	2.12	0.48
12:4:51:GLU:HB2	12:4:91:LYS:HZ1	1.79	0.48
14:6:82:TYR:OH	14:6:86:GLU:OE2	2.18	0.48
1:A:20:GLN:O	1:A:24:ALA:N	2.36	0.47
1:A:199:LYS:HB3	1:A:385:CYS:SG	2.53	0.47
1:A:235:ALA:N	1:A:285:VAL:O	2.38	0.47
1:A:496:ARG:HB3	1:A:501:ALA:HB3	1.96	0.47
2:B:35:ILE:O	2:B:39:VAL:HG22	2.14	0.47
3:C:38:ARG:HH22	3:C:449:ARG:NH2	2.12	0.47
3:C:209:ILE:HD11	3:C:384:LEU:HD12	1.96	0.47
3:C:314:ARG:HD3	9:1:12:ALA:HB3	1.96	0.47
4:D:38:ILE:HA	4:D:41:ALA:HB3	1.95	0.47
4:D:147:ILE:O	4:D:151:MET:HG3	2.14	0.47
4:D:337:CYS:HA	4:D:342:THR:O	2.14	0.47
5:E:113:ALA:HB1	5:E:523:MET:SD	2.54	0.47
6:F:15:ARG:NH1	6:F:520:GLU:OE1	2.46	0.47
8:H:232:THR:HG22	8:H:290:VAL:HB	1.96	0.47
1:I:211:ILE:N	1:I:374:SER:O	2.47	0.47
1:I:224:GLY:HA3	1:I:301:VAL:HG13	1.96	0.47
1:I:335:GLU:HB3	1:I:338:GLU:HG3	1.96	0.47
1:I:401:ARG:HD2	1:I:506:PRO:HG3	1.96	0.47
2:J:185:GLU:O	2:J:189:ARG:HG2	2.13	0.47
2:J:446:LEU:HB3	2:J:447:PRO:HD3	1.96	0.47
5:M:131:ILE:CG2	7:O:43:ARG:HE	2.27	0.47
6:N:192:GLU:HB3	6:N:373:THR:HA	1.95	0.47
6:N:270:ARG:CD	6:N:336:PHE:HB2	2.34	0.47
7:O:144:LYS:O	7:O:151:GLN:HG2	2.14	0.47
7:O:465:ARG:HA	7:O:468:HIS:HB2	1.96	0.47
8:P:177:VAL:O	8:P:181:LYS:HG2	2.14	0.47
8:P:220:GLY:O	8:P:374:THR:HG23	2.14	0.47
8:P:347:CYS:SG	8:P:365:HIS:NE2	2.83	0.47
9:1:43:HIS:CD2	9:1:47:THR:HG23	2.48	0.47
11:3:88:LEU:HD13	13:5:70:MET:HE1	1.95	0.47
14:6:19:LEU:HB2	14:6:101:SER:HB2	1.96	0.47
1:A:85:GLU:OE1	1:A:512:LYS:HD2	2.14	0.47
1:A:199:LYS:HA	1:A:377:LEU:H	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:351:VAL:HG22	1:A:364:ILE:HA	1.96	0.47
2:B:279:VAL:O	2:B:283:LEU:N	2.39	0.47
4:D:162:THR:O	4:D:166:SER:N	2.31	0.47
4:D:359:ALA:HA	4:D:379:CYS:SG	2.54	0.47
4:D:481:ARG:NH2	5:M:446:TYR:HB2	2.29	0.47
5:E:45:ALA:HB1	5:E:111:VAL:HA	1.95	0.47
5:E:413:ILE:HD12	5:E:414:ARG:N	2.29	0.47
6:F:76:LEU:HA	6:F:79:LYS:NZ	2.29	0.47
7:G:259:THR:OG1	7:G:260:VAL:N	2.46	0.47
8:H:197:PHE:HB3	8:H:400:LYS:NZ	2.29	0.47
1:I:136:LEU:HD21	1:I:407:SER:HA	1.96	0.47
1:I:201:HIS:ND1	1:I:382:ASP:OD1	2.47	0.47
2:J:109:LEU:HB3	2:J:130:TRP:CZ3	2.48	0.47
2:J:159:LEU:HD12	2:J:184:VAL:HG13	1.96	0.47
2:J:258:VAL:HA	2:J:263:LYS:HB3	1.96	0.47
3:K:223:ASP:OD2	3:K:361:THR:HG21	2.14	0.47
4:L:419:ARG:O	4:L:512:LEU:HB3	2.14	0.47
4:L:477:VAL:HA	4:L:480:LEU:HD12	1.97	0.47
5:M:58:ASP:HB3	5:M:70:VAL:HG12	1.96	0.47
5:M:515:GLN:HE21	5:M:519:LEU:HG	1.79	0.47
6:N:165:ALA:O	6:N:169:THR:OG1	2.24	0.47
8:P:37:LYS:HA	8:P:40:ALA:HB3	1.96	0.47
8:P:402:LEU:HD12	8:P:406:LYS:HA	1.96	0.47
11:3:101:MET:SD	12:4:76:ILE:HB	2.54	0.47
14:6:57:PHE:CE2	14:6:64:LEU:HD21	2.48	0.47
1:A:428:THR:HG23	7:O:418:LYS:HZ2	1.77	0.47
2:B:294:GLN:O	2:B:314:HIS:N	2.28	0.47
3:C:181:LYS:HA	3:C:402:LEU:HD11	1.96	0.47
5:E:176:LYS:O	5:E:397:GLU:HG3	2.14	0.47
5:E:248:ILE:HG21	5:E:333:ILE:HD11	1.95	0.47
6:F:179:ILE:HD11	6:F:184:GLU:OE1	2.15	0.47
6:F:190:MET:HG3	6:F:370:ARG:O	2.14	0.47
6:F:290:VAL:HA	6:F:311:VAL:O	2.14	0.47
7:G:13:THR:OG1	8:H:77:GLU:HG2	2.15	0.47
7:G:118:PRO:O	7:G:120:ILE:N	2.48	0.47
7:G:241:ASN:HD21	7:G:330:ILE:HB	1.79	0.47
7:G:329:SER:HB3	7:G:341:VAL:HG12	1.95	0.47
8:H:94:GLU:OE1	8:H:101:THR:OG1	2.18	0.47
1:I:11:ARG:HA	4:L:59:LYS:NZ	2.28	0.47
1:I:413:GLY:HA3	1:I:449:PRO:HD3	1.96	0.47
2:J:65:ASN:HD21	2:J:171:LEU:HG	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:243:SER:HB2	3:K:333:SER:C	2.34	0.47
5:M:129:HIS:CG	5:M:130:PRO:HD2	2.50	0.47
6:N:14:ALA:N	6:N:521:ILE:O	2.44	0.47
6:N:135:GLU:N	6:N:502:LYS:HZ1	2.12	0.47
6:N:173:VAL:HA	6:N:176:ILE:CG1	2.43	0.47
6:N:233:CYS:O	6:N:294:GLN:N	2.37	0.47
6:N:378:GLY:N	6:N:384:LEU:HD13	2.28	0.47
7:O:247:LYS:HE2	7:O:271:TRP:NE1	2.29	0.47
8:P:42:THR:OG1	8:P:43:THR:N	2.47	0.47
8:P:450:ARG:HA	8:P:460:ALA:HB2	1.96	0.47
9:1:65:GLY:HA3	13:5:49:CYS:SG	2.55	0.47
11:3:125:LEU:HB2	11:3:135:TYR:CD2	2.49	0.47
13:5:12:LEU:HB2	13:5:13:PRO:HD3	1.96	0.47
1:A:34:SER:O	1:A:41:LEU:N	2.36	0.47
1:A:286:ILE:N	1:A:306:MET:O	2.37	0.47
1:A:311:VAL:HG12	1:A:316:LEU:HB2	1.95	0.47
1:A:313:LYS:HE3	1:A:317:LYS:HB3	1.97	0.47
1:A:465:ALA:O	1:A:469:ALA:N	2.40	0.47
1:A:486:ILE:HG23	1:A:495:PRO:HB2	1.97	0.47
3:C:205:PRO:O	3:C:356:GLY:HA3	2.13	0.47
3:C:229:MET:HG2	3:C:312:ILE:CD1	2.44	0.47
4:D:145:ILE:O	4:D:149:THR:HG23	2.15	0.47
4:D:209:LYS:HD2	4:D:227:LEU:HD22	1.95	0.47
4:D:417:LYS:HD3	4:D:513:LEU:HD22	1.96	0.47
5:E:96:LYS:HG2	5:E:100:ASP:OD2	2.14	0.47
6:F:141:ARG:HB3	6:F:147:THR:HG21	1.96	0.47
6:F:416:VAL:HG11	6:F:467:GLN:HA	1.96	0.47
6:F:431:GLY:HA3	6:N:464:VAL:HB	1.95	0.47
6:F:479:VAL:HA	6:F:486:PRO:HA	1.96	0.47
7:G:372:PHE:O	7:G:373:ILE:HD13	2.14	0.47
7:G:397:ARG:O	7:G:401:LYS:HG2	2.13	0.47
8:H:365:HIS:H	8:H:372:ILE:HD11	1.78	0.47
8:H:448:ILE:H	8:H:448:ILE:HD12	1.80	0.47
1:I:214:TYR:HE2	1:I:370:ARG:HH12	1.62	0.47
2:J:240:ALA:HB3	2:J:292:ASN:HA	1.96	0.47
3:K:238:ILE:O	3:K:331:ILE:HA	2.14	0.47
4:L:405:ILE:O	4:L:409:LEU:HG	2.15	0.47
6:N:381:LYS:O	6:N:385:THR:N	2.30	0.47
7:O:30:GLN:HE21	7:O:105:LEU:HB3	1.79	0.47
7:O:325:ALA:HA	7:O:368:LYS:H	1.79	0.47
8:P:97:VAL:HA	8:P:401:VAL:HG21	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:1:23:THR:HA	9:1:26:LYS:HD2	1.96	0.47
10:2:115:LEU:O	10:2:119:ARG:HG2	2.14	0.47
13:5:50:LEU:HG	13:5:100:LYS:NZ	2.29	0.47
1:A:237:LEU:O	1:A:288:THR:HA	2.15	0.47
1:A:271:THR:HA	1:A:274:ARG:HE	1.79	0.47
1:A:499:LYS:HG3	1:A:500:GLN:HG3	1.97	0.47
1:A:527:ILE:CG1	4:D:60:MET:H	2.21	0.47
2:B:152:GLU:HA	2:B:155:PHE:HB3	1.96	0.47
2:B:155:PHE:HZ	2:B:401:VAL:HG22	1.79	0.47
2:B:219:LEU:HD21	2:B:359:LEU:HD13	1.95	0.47
2:B:337:HIS:CB	2:B:340:LEU:HB2	2.44	0.47
3:C:140:ILE:CG1	3:C:409:PRO:HD2	2.41	0.47
4:D:427:ALA:HA	4:D:430:ILE:HD12	1.95	0.47
5:E:286:GLU:HG2	5:E:317:ASN:HD21	1.79	0.47
5:E:309:GLU:O	5:E:312:HIS:CE1	2.67	0.47
5:E:434:SER:CB	4:L:441:ARG:HH22	2.27	0.47
5:E:525:ARG:HB2	7:G:43:ARG:HH12	1.80	0.47
6:F:109:TYR:HB3	6:F:114:LEU:HD23	1.95	0.47
6:F:191:ILE:O	6:F:193:ILE:HG12	2.14	0.47
6:F:334:ASN:O	6:F:335:SER:OG	2.26	0.47
7:G:76:ALA:O	7:G:80:VAL:HG23	2.14	0.47
7:G:107:GLN:HB3	7:G:437:ALA:HB1	1.97	0.47
7:G:219:THR:O	7:G:357:ARG:HB2	2.15	0.47
7:G:277:LYS:HG2	7:G:335:ASN:OD1	2.14	0.47
7:G:449:LEU:HB3	7:G:479:ILE:HB	1.96	0.47
7:G:474:TRP:HD1	7:G:489:GLU:OE2	1.97	0.47
8:H:56:VAL:N	8:H:64:PHE:O	2.36	0.47
8:H:107:PHE:CD2	8:H:511:ALA:HB1	2.50	0.47
8:H:204:VAL:HG22	8:H:375:ILE:HB	1.96	0.47
1:I:245:LYS:HG2	1:I:248:LEU:HD21	1.96	0.47
1:I:274:ARG:HH12	1:I:278:ILE:HG13	1.79	0.47
1:I:411:GLY:N	1:I:504:PHE:HD1	2.12	0.47
2:J:155:PHE:CE2	2:J:159:LEU:HD11	2.48	0.47
3:K:48:LYS:HE3	3:K:66:ILE:HG21	1.96	0.47
4:L:229:LEU:HD13	4:L:332:ASP:HB3	1.97	0.47
4:L:431:GLU:HA	4:L:484:HIS:CE1	2.49	0.47
5:M:327:GLY:O	5:M:330:ILE:HG22	2.15	0.47
6:N:47:LEU:HD11	6:N:66:GLU:HB2	1.95	0.47
7:O:39:THR:HG21	7:O:47:LYS:HB3	1.96	0.47
8:P:447:ALA:HA	8:P:450:ARG:HD2	1.96	0.47
9:1:68:PHE:HB2	13:5:63:LEU:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:4:39:GLU:HB2	12:4:101:LEU:HD22	1.97	0.47
2:B:17:ASP:O	2:B:522:LYS:N	2.32	0.47
2:B:33:ILE:HD12	2:B:111:ARG:HB2	1.96	0.47
2:B:159:LEU:O	2:B:163:ALA:N	2.47	0.47
2:B:400:THR:HA	2:B:403:ASP:O	2.15	0.47
2:B:421:VAL:HG11	2:B:439:TYR:HD2	1.79	0.47
3:C:290:VAL:O	3:C:312:ILE:N	2.28	0.47
3:C:470:HIS:CE1	3:C:474:ASN:HD22	2.33	0.47
5:E:129:HIS:CE1	7:G:454:GLY:HA2	2.49	0.47
7:G:158:CYS:HG	7:G:493:TRP:HE3	1.58	0.47
8:H:23:SER:HA	8:H:27:GLU:HB3	1.96	0.47
8:H:136:CYS:SG	8:H:512:THR:OG1	2.64	0.47
8:H:227:THR:HG21	8:H:231:VAL:HG12	1.97	0.47
8:H:291:VAL:CG1	8:H:312:LEU:HD23	2.45	0.47
8:H:321:LEU:O	8:H:325:CYS:N	2.32	0.47
8:H:381:THR:HG22	8:H:383:ASN:N	2.28	0.47
1:I:59:ALA:O	1:I:63:LYS:HG3	2.14	0.47
1:I:273:GLU:O	1:I:277:LYS:HG3	2.14	0.47
1:I:531:ILE:HD13	4:L:77:ILE:O	2.14	0.47
2:J:23:THR:HA	2:J:26:LEU:HB3	1.96	0.47
2:J:186:ALA:O	2:J:195:ASN:ND2	2.47	0.47
3:K:84:SER:O	3:K:88:ASP:N	2.48	0.47
3:K:93:ASP:HB3	3:K:396:GLN:HE22	1.80	0.47
3:K:141:SER:OG	3:K:499:LEU:HD12	2.13	0.47
3:K:302:HIS:O	3:K:306:ARG:HG3	2.15	0.47
6:N:134:LEU:HD13	6:N:501:LYS:HB3	1.97	0.47
6:N:206:LEU:HD11	6:N:208:ARG:NH1	2.30	0.47
6:N:452:ALA:H	6:N:479:VAL:HG11	1.79	0.47
7:O:123:ARG:HH11	8:P:482:ILE:HG23	1.77	0.47
10:2:68:ARG:NH2	11:3:139:GLU:OE1	2.31	0.47
1:A:132:ILE:HA	1:A:135:ASN:HB3	1.97	0.47
1:A:135:ASN:ND2	1:A:409:VAL:HB	2.29	0.47
1:A:234:ILE:HG23	1:A:285:VAL:HB	1.96	0.47
1:A:285:VAL:HG22	1:A:306:MET:SD	2.55	0.47
1:A:375:ILE:HG22	1:A:377:LEU:HD12	1.96	0.47
1:A:453:ALA:HA	1:A:456:ALA:HB3	1.96	0.47
2:B:33:ILE:HG13	2:B:114:GLU:OE2	2.15	0.47
2:B:48:MET:HB2	4:D:531:LYS:HA	1.97	0.47
2:B:144:SER:OG	2:B:416:LEU:HD22	2.15	0.47
2:B:268:GLU:O	2:B:272:LYS:HG3	2.15	0.47
3:C:144:VAL:O	3:C:405:PRO:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:174:ASN:HA	3:C:177:LEU:HB3	1.97	0.47
3:C:200:ARG:HB2	3:C:218:VAL:HG13	1.97	0.47
3:C:208:ILE:HG23	3:C:210:GLU:HB2	1.95	0.47
3:C:237:ARG:NE	3:C:340:GLU:OE2	2.48	0.47
3:C:282:ILE:O	3:C:285:LEU:HG	2.15	0.47
4:D:87:ALA:O	4:D:91:LEU:HG	2.15	0.47
4:D:147:ILE:HD13	4:D:435:ARG:HB3	1.97	0.47
4:D:148:LEU:O	4:D:152:SER:N	2.48	0.47
5:E:130:PRO:C	5:E:528:LEU:HD21	2.35	0.47
5:E:285:PHE:CD1	5:E:314:LEU:HD12	2.48	0.47
5:E:410:ARG:HG2	5:E:414:ARG:NH2	2.30	0.47
6:F:291:VAL:HB	6:F:312:ALA:CB	2.44	0.47
6:F:380:ASN:HD22	6:F:384:LEU:HD22	1.79	0.47
6:F:517:LEU:HA	6:F:517:LEU:HD23	1.58	0.47
7:G:36:VAL:HG12	7:G:62:GLY:HA3	1.97	0.47
7:G:74:PRO:HA	7:G:77:LYS:HB3	1.96	0.47
7:G:116:LEU:CD1	7:G:430:LYS:HB3	2.45	0.47
7:G:243:GLU:HB3	7:G:293:LEU:HB3	1.95	0.47
8:H:191:PHE:CZ	8:H:371:ALA:HB3	2.50	0.47
8:H:234:VAL:O	8:H:237:ALA:HB2	2.15	0.47
8:H:245:PRO:CD	8:H:293:THR:HA	2.45	0.47
8:H:246:PHE:CZ	8:H:280:VAL:HB	2.49	0.47
8:H:246:PHE:HZ	8:H:280:VAL:HB	1.78	0.47
1:I:231:ASN:ND2	1:I:233:LYS:O	2.48	0.47
1:I:294:ASP:OD1	1:I:295:MET:N	2.47	0.47
1:I:418:ALA:HB1	1:I:422:TYR:CZ	2.49	0.47
1:I:528:ASP:HB2	4:L:73:ASP:HA	1.96	0.47
2:J:21:ALA:HA	2:J:24:ALA:HB3	1.97	0.47
2:J:133:ALA:HB2	2:J:436:MET:HG2	1.96	0.47
2:J:347:LYS:H	2:J:364:GLY:HA2	1.80	0.47
2:J:399:GLN:HE22	2:J:499:VAL:HB	1.80	0.47
2:J:415:MET:HB2	2:J:469:HIS:HE1	1.79	0.47
2:J:425:ALA:HB1	2:J:433:ALA:HA	1.97	0.47
2:J:469:HIS:HB2	2:J:474:THR:HA	1.97	0.47
3:K:37:ILE:HG21	3:K:99:ILE:HD11	1.97	0.47
3:K:193:ILE:HG13	3:K:195:ILE:HG12	1.96	0.47
3:K:334:ARG:HG2	3:K:336:GLU:HG2	1.97	0.47
3:K:434:GLN:HG2	3:K:438:ARG:NH1	2.29	0.47
4:L:123:LEU:O	4:L:127:GLY:N	2.48	0.47
4:L:229:LEU:HD11	4:L:246:ILE:HD11	1.97	0.47
5:M:165:LEU:HD13	5:M:409:ILE:HG23	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:231:ASP:HA	5:M:371:MET:SD	2.55	0.47
5:M:255:PHE:CB	5:M:306:PHE:HD1	2.28	0.47
5:M:493:CYS:SG	5:M:506:VAL:HG11	2.55	0.47
6:N:57:THR:HG21	6:N:62:VAL:HG11	1.97	0.47
6:N:159:LYS:HD3	6:N:159:LYS:HA	1.61	0.47
7:O:13:THR:HB	8:P:77:GLU:H	1.79	0.47
7:O:37:ARG:HB3	7:O:448:GLN:NE2	2.29	0.47
7:O:167:LEU:HB2	7:O:384:GLU:CG	2.44	0.47
7:O:193:LYS:O	7:O:321:ARG:NH1	2.47	0.47
7:O:322:THR:O	7:O:326:CYS:N	2.23	0.47
7:O:523:PRO:HD3	8:P:58:ASN:C	2.35	0.47
8:P:453:ALA:O	8:P:457:GLY:N	2.48	0.47
9:1:51:ILE:HG23	9:1:77:HIS:CE1	2.49	0.47
10:2:66:GLU:O	10:2:83:VAL:HB	2.14	0.47
11:3:61:LYS:HG3	12:4:27:ALA:HB2	1.96	0.47
11:3:133:LEU:HB2	11:3:135:TYR:CZ	2.49	0.47
1:A:143:LEU:HD23	1:A:499:LYS:HB3	1.97	0.47
1:A:252:VAL:HG22	3:C:270:MET:HG2	1.96	0.47
1:A:471:HIS:NE2	7:O:426:THR:HA	2.28	0.47
2:B:43:LEU:HB3	2:B:453:ASN:HD21	1.80	0.47
2:B:237:ILE:N	2:B:344:GLY:O	2.24	0.47
3:C:354:LYS:HB2	3:C:359:TYR:CE1	2.50	0.47
4:D:502:ASN:HD21	4:D:504:LEU:HB2	1.79	0.47
7:G:410:GLY:HA2	7:G:413:GLU:HG2	1.96	0.47
8:H:125:VAL:O	8:H:129:ILE:HG13	2.15	0.47
8:H:226:GLU:HB3	8:H:314:ARG:CD	2.45	0.47
1:I:398:VAL:HB	1:I:401:ARG:HH21	1.79	0.47
1:I:534:HIS:N	4:L:82:GLN:HB2	2.23	0.47
2:J:122:HIS:CD2	5:M:467:GLY:HA2	2.50	0.47
2:J:352:VAL:HG22	2:J:361:HIS:HB2	1.96	0.47
2:J:407:VAL:N	2:J:495:GLU:O	2.46	0.47
3:K:418:VAL:O	3:K:422:LEU:HG	2.15	0.47
5:M:55:ASN:HD21	5:M:495:HIS:H	1.62	0.47
5:M:167:GLN:O	5:M:170:LYS:HB2	2.13	0.47
5:M:168:THR:HG21	5:M:408:VAL:HG11	1.96	0.47
8:P:73:LEU:HD11	8:P:105:LEU:HD11	1.95	0.47
8:P:93:GLN:OE1	8:P:506:TRP:HB3	2.15	0.47
8:P:189:SER:HB2	8:P:219:HIS:NE2	2.29	0.47
8:P:207:ILE:HD13	8:P:358:THR:HG21	1.97	0.47
8:P:278:ALA:HA	8:P:281:LYS:HE2	1.97	0.47
13:5:42:LYS:HA	13:5:45:GLU:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:82:GLN:HG2	1:A:516:PHE:HD2	1.80	0.47
1:A:119:SER:O	1:A:123:LEU:N	2.43	0.47
3:C:109:ALA:HB1	3:C:113:LEU:HD12	1.96	0.47
3:C:326:ALA:HB1	3:C:363:ILE:HB	1.97	0.47
3:C:453:GLN:O	6:F:115:HIS:NE2	2.48	0.47
4:D:241:VAL:HG12	4:D:323:MET:HE1	1.97	0.47
5:E:141:ALA:O	5:E:145:ILE:HG13	2.14	0.47
5:E:142:ARG:HA	5:E:145:ILE:HD12	1.96	0.47
5:E:258:PRO:HG2	7:G:263:TYR:O	2.15	0.47
5:E:513:LYS:O	5:E:517:ILE:HG13	2.14	0.47
6:F:237:LEU:O	6:F:298:ASP:N	2.45	0.47
6:F:396:ARG:HA	6:F:399:LYS:HG2	1.96	0.47
7:G:145:LYS:HD2	7:G:151:GLN:OE1	2.14	0.47
7:G:521:LYS:HG2	8:H:57:ILE:HG12	1.97	0.47
8:H:42:THR:OG1	8:H:54:LYS:HD2	2.15	0.47
8:H:196:HIS:HE1	8:H:198:ASN:ND2	2.13	0.47
1:I:17:ILE:O	1:I:21:ASN:N	2.43	0.47
1:I:129:VAL:HG13	1:I:511:VAL:HG12	1.96	0.47
1:I:183:ASP:HB2	1:I:189:ARG:HB3	1.96	0.47
1:I:534:HIS:HA	4:L:64:GLY:HA3	1.96	0.47
2:J:148:HIS:ND1	2:J:158:ASP:HB2	2.30	0.47
2:J:396:VAL:HG13	2:J:399:GLN:HE21	1.80	0.47
2:J:425:ALA:CB	2:J:437:GLU:HG3	2.45	0.47
4:L:489:LYS:N	4:L:489:LYS:HD2	2.30	0.47
4:L:496:ARG:HB3	4:L:508:VAL:HG22	1.96	0.47
5:M:420:TYR:CD1	5:M:507:ILE:HG12	2.50	0.47
6:N:445:LEU:O	6:N:449:LYS:N	2.46	0.47
7:O:241:ASN:HA	7:O:292:LYS:HB3	1.96	0.47
7:O:447:ARG:HA	7:O:457:ALA:CB	2.45	0.47
7:O:522:ASN:N	7:O:523:PRO:HD2	2.30	0.47
8:P:165:ARG:HG3	8:P:176:GLU:HB3	1.97	0.47
8:P:179:LEU:HD23	8:P:182:LEU:HD12	1.97	0.47
9:1:79:GLN:O	9:1:83:LYS:N	2.45	0.47
13:5:24:GLN:HB3	13:5:28:PHE:CZ	2.50	0.47
13:5:82:VAL:HG21	13:5:96:ALA:HA	1.96	0.47
13:5:120:ALA:HA	13:5:123:GLU:HG2	1.96	0.47
14:6:27:MET:HB2	14:6:90:TYR:CZ	2.50	0.47
1:A:108:VAL:HA	1:A:112:ILE:O	2.14	0.47
1:A:119:SER:OG	1:A:122:ARG:NH2	2.48	0.47
1:A:152:ALA:O	1:A:156:MET:HG3	2.14	0.47
1:A:203:ARG:NE	1:A:358:ASP:OD1	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:523:THR:O	1:A:527:ILE:HD12	2.15	0.47
2:B:424:LEU:HD12	2:B:427:ARG:HB2	1.96	0.47
2:B:437:GLU:O	2:B:441:LYS:HG2	2.15	0.47
3:C:123:ILE:HA	3:C:126:TYR:CD2	2.50	0.47
3:C:172:ALA:O	3:C:175:ILE:HB	2.15	0.47
3:C:180:VAL:HA	3:C:183:VAL:HG22	1.97	0.47
3:C:392:GLN:HA	3:C:395:MET:HG2	1.97	0.47
3:C:408:VAL:HG12	3:C:497:GLU:O	2.15	0.47
5:E:408:VAL:HA	5:E:411:ASN:OD1	2.15	0.47
6:F:322:GLU:O	6:F:326:LEU:N	2.44	0.47
8:H:211:GLY:H	8:H:214:SER:HB2	1.80	0.47
8:H:278:ALA:HA	8:H:281:LYS:HB3	1.96	0.47
1:I:109:LYS:HB2	4:L:470:GLY:N	2.30	0.47
1:I:152:ALA:HA	1:I:395:ALA:CB	2.45	0.47
1:I:451:THR:HA	1:I:454:VAL:HB	1.97	0.47
3:K:168:TRP:CH2	3:K:378:GLY:HA2	2.50	0.47
3:K:435:TRP:O	3:K:439:ALA:N	2.34	0.47
4:L:163:LEU:HB3	4:L:188:VAL:HG22	1.96	0.47
5:M:156:LEU:HD12	5:M:164:PRO:HG2	1.96	0.47
5:M:510:LEU:HD23	5:M:514:LYS:HE2	1.97	0.47
6:N:302:LEU:HD22	6:N:314:ARG:HH22	1.80	0.47
6:N:437:VAL:O	6:N:441:ALA:N	2.38	0.47
6:N:449:LYS:HA	6:N:459:LEU:HB2	1.97	0.47
7:O:12:GLY:O	7:O:524:ARG:HB2	2.15	0.47
7:O:211:VAL:HG23	7:O:371:THR:HB	1.97	0.47
2:B:79:PRO:O	2:B:83:VAL:N	2.41	0.46
2:B:276:LYS:HE3	2:B:280:GLU:OE2	2.14	0.46
3:C:451:LEU:HB3	3:C:482:GLY:N	2.29	0.46
4:D:395:LYS:O	4:D:399:GLU:N	2.46	0.46
5:E:144:ALA:O	5:E:148:LEU:N	2.35	0.46
5:E:242:LYS:HA	5:E:361:GLU:OE2	2.15	0.46
5:E:480:ARG:O	5:E:484:GLU:HG2	2.15	0.46
6:F:150:ASP:HA	6:F:153:ARG:HG2	1.97	0.46
6:F:154:THR:HA	6:F:157:ARG:HE	1.79	0.46
8:H:34:GLN:HA	8:H:37:LYS:HE3	1.97	0.46
1:I:161:ILE:CB	1:I:387:GLU:HG3	2.45	0.46
3:K:133:MET:HG3	3:K:418:VAL:HG21	1.97	0.46
3:K:230:ARG:HH12	3:K:350:LEU:CD2	2.28	0.46
3:K:260:ARG:HE	3:K:263:ASP:HB2	1.80	0.46
3:K:323:ILE:O	3:K:327:CYS:N	2.43	0.46
3:K:390:ASN:O	3:K:394:ALA:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:94:LEU:HD23	4:L:110:VAL:HA	1.97	0.46
4:L:280:ARG:NE	4:L:312:LEU:HD22	2.29	0.46
4:L:291:LYS:HB2	4:L:320:MET:HB3	1.97	0.46
4:L:306:ARG:H	4:L:308:ALA:H	1.60	0.46
4:L:373:LEU:HD22	4:L:389:VAL:HG11	1.97	0.46
5:M:55:ASN:HD21	5:M:495:HIS:N	2.13	0.46
5:M:163:GLU:O	5:M:167:GLN:N	2.32	0.46
5:M:313:LEU:HA	5:M:316:GLN:HB3	1.97	0.46
5:M:444:GLU:HB3	5:M:448:MET:HG3	1.97	0.46
7:O:160:MET:HA	7:O:172:LYS:HB2	1.96	0.46
7:O:246:LEU:HG	7:O:247:LYS:HG3	1.96	0.46
7:O:420:LEU:HD23	7:O:423:TYR:HD2	1.80	0.46
8:P:42:THR:HG21	8:P:72:ILE:HD13	1.97	0.46
9:1:70:LEU:HB2	13:5:61:GLU:HB2	1.96	0.46
9:1:79:GLN:O	9:1:82:GLU:HB3	2.15	0.46
1:A:140:THR:HG23	1:A:402:VAL:HG13	1.97	0.46
1:A:161:ILE:HA	1:A:168:PHE:CE2	2.50	0.46
1:A:471:HIS:N	1:A:482:ASN:O	2.46	0.46
2:B:95:VAL:CG2	2:B:502:GLN:HB3	2.45	0.46
4:D:48:ILE:HD12	4:D:74:GLY:HA2	1.98	0.46
4:D:466:ALA:O	4:D:471:LEU:HB3	2.15	0.46
5:E:61:MET:HG2	5:E:80:MET:SD	2.55	0.46
5:E:405:ALA:O	5:E:409:ILE:HG22	2.16	0.46
5:E:423:GLY:N	5:E:501:MET:HE1	2.28	0.46
7:G:22:LEU:HD12	7:G:517:ASP:HB3	1.97	0.46
7:G:248:ALA:HB3	7:G:274:LEU:HD23	1.96	0.46
7:G:425:ARG:CD	1:I:473:GLU:HG2	2.43	0.46
8:H:470:VAL:HG11	8:H:476:LYS:HG2	1.96	0.46
1:I:109:LYS:HE2	4:L:467:GLU:O	2.15	0.46
1:I:258:GLU:HB2	3:K:334:ARG:HH12	1.80	0.46
2:J:276:LYS:HG2	2:J:303:LEU:HD13	1.96	0.46
3:K:130:LEU:HD12	3:K:133:MET:CE	2.45	0.46
3:K:377:ARG:HA	3:K:384:LEU:CD1	2.46	0.46
3:K:449:ARG:NH2	3:K:460:ILE:HA	2.30	0.46
5:M:312:HIS:O	5:M:316:GLN:N	2.44	0.46
6:N:40:PRO:HD2	6:N:481:LEU:HB3	1.97	0.46
6:N:477:VAL:HG23	6:N:487:MET:O	2.15	0.46
7:O:66:LEU:HD11	7:O:98:THR:OG1	2.16	0.46
7:O:73:HIS:HB2	7:O:76:ALA:H	1.80	0.46
7:O:188:ASP:OD1	7:O:189:LEU:N	2.48	0.46
8:P:242:TYR:CD1	8:P:333:LEU:HB2	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:413:GLY:HA2	8:P:416:GLU:HG2	1.97	0.46
11:3:105:PHE:HE2	11:3:115:ALA:HB3	1.80	0.46
12:4:33:ILE:HD12	12:4:112:LEU:HD22	1.98	0.46
13:5:40:GLN:NE2	13:5:111:THR:OG1	2.48	0.46
1:A:235:ALA:HB3	1:A:286:ILE:HD13	1.97	0.46
1:A:320:ALA:HB1	1:A:327:ILE:CG1	2.42	0.46
1:A:466:LYS:CD	7:O:429:GLY:HA2	2.45	0.46
1:A:515:LYS:HG3	1:A:519:GLU:HG3	1.97	0.46
2:B:49:ASP:O	4:D:533:ASP:N	2.48	0.46
2:B:426:ASN:HA	2:B:429:PRO:HG3	1.97	0.46
2:B:518:ASP:CG	2:B:519:ASN:H	2.16	0.46
4:D:94:LEU:HD13	4:D:525:THR:OG1	2.15	0.46
4:D:277:ARG:NH2	14:6:60:LEU:HD13	2.31	0.46
4:D:286:LEU:O	4:D:290:ILE:HG13	2.15	0.46
4:D:300:ILE:HB	4:D:326:LYS:HA	1.97	0.46
4:D:462:PRO:HB2	4:D:493:ILE:HD12	1.96	0.46
5:E:170:LYS:HG3	5:E:181:CYS:HB3	1.97	0.46
5:E:256:GLU:O	5:E:323:ARG:NH1	2.48	0.46
5:E:437:ALA:HB2	5:E:448:MET:HB2	1.97	0.46
6:F:235:VAL:HB	6:F:336:PHE:CE2	2.50	0.46
6:F:468:ALA:HA	6:F:471:SER:HB2	1.97	0.46
8:H:232:THR:HG21	8:H:350:VAL:CG1	2.44	0.46
8:H:412:GLY:O	8:H:477:ASN:ND2	2.48	0.46
8:H:433:LEU:HA	8:H:436:TYR:CD2	2.50	0.46
1:I:9:GLY:HA2	4:L:62:GLN:OE1	2.15	0.46
1:I:29:ALA:O	1:I:33:LYS:HG3	2.14	0.46
1:I:227:LYS:CB	1:I:308:VAL:HG22	2.45	0.46
1:I:278:ILE:HG23	1:I:340:PHE:CE2	2.50	0.46
1:I:458:GLN:HB3	1:I:494:LYS:HD3	1.98	0.46
2:J:61:LEU:HD21	4:L:86:PRO:O	2.16	0.46
2:J:84:LEU:O	2:J:88:SER:N	2.29	0.46
2:J:134:THR:HG22	2:J:138:ARG:NE	2.31	0.46
3:K:452:ILE:HD13	3:K:480:VAL:HG21	1.96	0.46
5:M:234:PHE:HA	5:M:321:ALA:O	2.15	0.46
7:O:403:ASP:OD1	7:O:404:SER:N	2.48	0.46
11:3:81:ILE:HG12	11:3:147:ASN:HB2	1.97	0.46
11:3:126:TRP:CE2	11:3:128:GLY:HA2	2.51	0.46
1:A:112:ILE:HG23	1:A:433:ARG:HD3	1.96	0.46
1:A:298:LYS:HA	1:A:301:VAL:HG22	1.97	0.46
2:B:91:GLN:HG3	2:B:102:VAL:HG21	1.97	0.46
2:B:244:MET:HB3	2:B:300:PRO:HG3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:261:GLU:HB3	9:1:97:LYS:HD2	1.96	0.46
4:D:190:ALA:HB1	4:D:208:ILE:HD12	1.97	0.46
5:E:358:LEU:O	5:E:375:GLU:N	2.48	0.46
6:F:458:ASP:O	6:F:462:THR:HB	2.16	0.46
6:F:498:TYR:HA	6:F:501:LYS:HE2	1.97	0.46
7:G:13:THR:HG21	8:H:76:LEU:HD23	1.96	0.46
8:H:252:GLU:CD	8:H:334:PRO:HB2	2.35	0.46
1:I:111:LYS:NZ	4:L:480:LEU:HD21	2.30	0.46
1:I:354:GLU:HB3	1:I:363:LEU:HD12	1.97	0.46
1:I:450:ASN:O	1:I:454:VAL:N	2.37	0.46
1:I:464:VAL:HG12	1:I:468:ARG:HH12	1.81	0.46
2:J:405:ARG:O	2:J:496:SER:HA	2.15	0.46
4:L:184:SER:HB2	4:L:185:PRO:HD3	1.96	0.46
4:L:234:SER:O	4:L:238:ILE:HG21	2.15	0.46
5:M:60:MET:HA	5:M:70:VAL:HA	1.96	0.46
5:M:233:ASP:HA	5:M:372:LEU:HB2	1.96	0.46
5:M:276:ALA:HB1	7:O:260:VAL:HG13	1.97	0.46
6:N:14:ALA:HB3	6:N:521:ILE:CG2	2.45	0.46
6:N:249:PHE:HB2	6:N:259:LEU:HB2	1.97	0.46
7:O:120:ILE:H	7:O:120:ILE:HD12	1.79	0.46
9:1:73:LYS:O	9:1:77:HIS:N	2.39	0.46
11:3:92:GLN:HE22	11:3:141:GLN:HB2	1.80	0.46
1:A:526:ARG:HB3	4:D:58:ASP:H	1.81	0.46
2:B:194:GLY:HA3	2:B:398:ALA:HA	1.97	0.46
2:B:228:GLN:CG	2:B:311:ALA:H	2.29	0.46
3:C:76:ALA:O	3:C:80:MET:HG2	2.16	0.46
3:C:323:ILE:HA	3:C:326:ALA:CB	2.45	0.46
3:C:376:LEU:CB	3:C:384:LEU:HD11	2.28	0.46
4:D:236:SER:O	4:D:321:LYS:NZ	2.46	0.46
4:D:301:GLN:CD	4:D:330:ARG:HH21	2.18	0.46
5:E:335:ILE:HB	5:E:381:ARG:NH1	2.31	0.46
6:F:61:ASN:OD1	6:F:65:HIS:NE2	2.48	0.46
7:G:26:ILE:O	7:G:30:GLN:HG2	2.15	0.46
8:H:48:GLY:H	8:H:170:SER:HB3	1.80	0.46
8:H:225:LYS:NZ	8:H:317:SER:H	2.14	0.46
8:H:292:VAL:HA	8:H:313:VAL:HB	1.98	0.46
8:H:423:ILE:HG21	8:H:441:PHE:CD2	2.49	0.46
2:J:144:SER:OG	2:J:416:LEU:HD13	2.16	0.46
3:K:130:LEU:HD11	3:K:507:LYS:HD3	1.97	0.46
5:M:434:SER:HB3	5:M:452:ALA:HB3	1.96	0.46
6:N:37:ASN:ND2	6:N:45:LYS:HB2	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:230:ILE:HA	6:N:290:VAL:O	2.15	0.46
7:O:240:LEU:HD23	7:O:331:GLN:HB2	1.97	0.46
7:O:290:LEU:HB3	7:O:314:VAL:HG21	1.98	0.46
7:O:398:ARG:HD2	7:O:401:LYS:HB3	1.97	0.46
8:P:249:MET:HA	8:P:254:LYS:HA	1.97	0.46
8:P:250:ILE:N	8:P:254:LYS:HD2	2.31	0.46
8:P:427:GLY:O	8:P:430:CYS:HB2	2.16	0.46
8:P:481:ASP:HB3	8:P:483:GLU:H	1.81	0.46
9:1:50:GLU:OE1	10:2:81:ARG:NH1	2.49	0.46
9:1:61:TYR:CD2	10:2:78:LEU:HD23	2.50	0.46
10:2:73:MET:HG2	11:3:126:TRP:CZ3	2.49	0.46
1:A:354:GLU:OE1	1:A:365:LYS:NZ	2.38	0.46
2:B:137:ALA:O	2:B:141:LEU:N	2.30	0.46
2:B:165:THR:O	2:B:168:SER:OG	2.24	0.46
2:B:219:LEU:HD11	2:B:359:LEU:HB3	1.97	0.46
2:B:360:ILE:HG22	2:B:362:PHE:CE1	2.50	0.46
2:B:465:LEU:HD11	2:B:469:HIS:CE1	2.51	0.46
3:C:219:MET:HG2	3:C:362:PHE:HD1	1.80	0.46
3:C:240:LEU:HD21	3:C:320:ASN:O	2.16	0.46
3:C:291:ILE:HD12	3:C:312:ILE:HG21	1.97	0.46
3:C:452:ILE:HG21	3:C:459:THR:CA	2.46	0.46
4:D:209:LYS:HB2	4:D:335:PHE:CE2	2.51	0.46
4:D:244:ALA:HA	4:D:296:ASN:CB	2.45	0.46
5:E:160:LYS:O	5:E:164:PRO:HD2	2.16	0.46
5:E:244:GLU:HG2	5:E:299:LEU:HB2	1.98	0.46
6:F:90:ASP:OD1	6:F:91:GLY:N	2.44	0.46
6:F:153:ARG:HG3	6:F:157:ARG:NH2	2.30	0.46
6:F:274:ILE:HG22	6:F:308:GLU:OE1	2.16	0.46
6:F:461:GLU:HG2	6:N:430:LYS:HB3	1.97	0.46
6:F:461:GLU:OE2	6:N:430:LYS:HD3	2.16	0.46
7:G:194:MET:O	7:G:369:THR:HG23	2.15	0.46
7:G:279:GLU:HA	7:G:282:HIS:HB2	1.98	0.46
7:G:324:MET:HB3	7:G:368:LYS:HB3	1.98	0.46
7:G:449:LEU:O	7:G:453:ALA:N	2.24	0.46
8:H:134:ILE:HD12	8:H:134:ILE:H	1.80	0.46
8:H:459:LYS:HG3	8:H:462:GLU:H	1.80	0.46
1:I:77:GLU:O	1:I:81:LEU:N	2.49	0.46
1:I:86:VAL:HG23	1:I:512:LYS:HZ3	1.81	0.46
1:I:128:ALA:O	1:I:132:ILE:N	2.47	0.46
1:I:417:ALA:HB3	1:I:471:HIS:CE1	2.50	0.46
1:I:485:TRP:NE1	1:I:487:GLY:O	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:20:ARG:HH12	5:M:47:THR:CA	2.28	0.46
2:J:444:ARG:O	2:J:448:THR:HG23	2.15	0.46
3:K:466:LEU:O	3:K:469:LYS:HB3	2.15	0.46
5:M:226:LYS:NZ	5:M:377:CYS:SG	2.68	0.46
5:M:331:GLU:O	5:M:335:ILE:HG22	2.14	0.46
5:M:360:GLN:O	5:M:373:VAL:N	2.47	0.46
8:P:492:MET:CE	8:P:497:ILE:HG21	2.46	0.46
13:5:90:TYR:CD1	14:6:58:LYS:HA	2.51	0.46
14:6:13:VAL:HB	14:6:16:TYR:HD2	1.81	0.46
14:6:74:ALA:O	14:6:78:LYS:HG3	2.16	0.46
1:A:196:ASN:HB3	1:A:374:SER:OG	2.15	0.46
1:A:508:ILE:HA	1:A:511:VAL:HG22	1.97	0.46
2:B:79:PRO:HA	2:B:82:LYS:HB3	1.97	0.46
3:C:279:CYS:HB3	3:C:303:TYR:HD2	1.80	0.46
4:D:158:SER:HB2	4:D:198:ALA:HB1	1.97	0.46
4:D:212:LYS:HE3	4:D:398:ILE:HG21	1.98	0.46
4:D:261:ASP:OD2	4:D:310:SER:HA	2.16	0.46
4:D:439:TYR:O	4:D:443:LEU:N	2.35	0.46
5:E:61:MET:HB2	5:E:77:ILE:HD13	1.98	0.46
5:E:490:GLY:H	5:E:500:ASP:HA	1.81	0.46
6:F:41:LYS:HD3	6:F:455:SER:HB2	1.98	0.46
6:F:138:LYS:HB3	6:F:498:TYR:CD1	2.51	0.46
6:F:154:THR:N	6:F:157:ARG:HE	2.13	0.46
6:F:213:ASP:OD1	6:F:213:ASP:N	2.48	0.46
7:G:62:GLY:O	7:G:66:LEU:HG	2.16	0.46
7:G:326:CYS:HA	7:G:365:PRO:HD2	1.98	0.46
7:G:415:GLU:O	7:G:418:LYS:HB3	2.16	0.46
7:G:494:GLU:HB3	7:G:499:ARG:HH21	1.81	0.46
8:H:135:ALA:HB2	8:H:438:ILE:HG23	1.97	0.46
8:H:229:GLY:HA2	8:H:302:LEU:HD12	1.96	0.46
2:J:59:ALA:HB1	4:L:89:ARG:NH1	2.31	0.46
2:J:145:ALA:HB1	2:J:405:ARG:HB3	1.97	0.46
2:J:285:HIS:CG	2:J:338:PRO:HG3	2.51	0.46
3:K:469:LYS:HG3	3:K:473:GLU:HB2	1.96	0.46
4:L:84:LEU:HD23	4:L:89:ARG:HH21	1.80	0.46
4:L:167:ALA:HA	4:L:411:VAL:HG11	1.98	0.46
5:M:105:GLY:CA	5:M:516:GLN:HE21	2.25	0.46
5:M:428:SER:HB2	5:M:481:GLN:OE1	2.16	0.46
6:N:90:ASP:HB3	6:N:500:VAL:CG2	2.45	0.46
6:N:141:ARG:NH1	6:N:407:VAL:O	2.49	0.46
6:N:206:LEU:HD21	6:N:208:ARG:NH2	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:458:ASP:HB2	6:N:461:GLU:HB3	1.97	0.46
7:O:463:LYS:O	7:O:467:ARG:N	2.43	0.46
8:P:163:LEU:HD11	8:P:408:LEU:HD21	1.98	0.46
8:P:207:ILE:O	8:P:378:ARG:HA	2.16	0.46
8:P:462:GLU:HG3	8:P:466:LYS:HZ2	1.81	0.46
11:3:135:TYR:HB3	11:3:139:GLU:HB2	1.98	0.46
1:A:138:VAL:HA	1:A:407:SER:HA	1.96	0.46
1:A:145:ARG:HA	1:A:504:PHE:CD2	2.51	0.46
1:A:477:ASN:N	1:A:485:TRP:O	2.47	0.46
2:B:27:THR:O	2:B:30:ILE:HG12	2.16	0.46
2:B:135:LYS:HD2	2:B:138:ARG:HG3	1.97	0.46
2:B:190:LEU:HD13	2:B:195:ASN:N	2.27	0.46
2:B:218:PHE:HB2	2:B:326:VAL:HG21	1.98	0.46
2:B:297:TYR:CG	2:B:298:ASN:N	2.83	0.46
3:C:23:GLN:NE2	3:C:114:GLU:OE2	2.48	0.46
3:C:432:VAL:O	3:C:436:PRO:HD2	2.16	0.46
4:D:276:LEU:HD11	14:6:82:TYR:CE2	2.50	0.46
4:D:441:ARG:HH22	5:M:449:ARG:NH1	2.13	0.46
5:E:234:PHE:CE1	5:E:241:LYS:HA	2.51	0.46
7:G:57:THR:CG2	7:G:65:ILE:HG12	2.45	0.46
7:G:408:GLY:HA2	7:G:499:ARG:NH2	2.31	0.46
8:H:70:ALA:O	8:H:74:ARG:HG2	2.15	0.46
1:I:18:ARG:NE	4:L:57:MET:H	2.13	0.46
1:I:89:GLY:O	1:I:93:VAL:HG12	2.16	0.46
1:I:135:ASN:ND2	1:I:478:PRO:HB3	2.31	0.46
2:J:220:LEU:N	2:J:360:ILE:O	2.46	0.46
4:L:38:ILE:HG21	4:L:121:THR:OG1	2.15	0.46
5:M:27:ARG:HH21	7:O:69:LEU:HD21	1.81	0.46
5:M:38:ILE:HA	5:M:41:ALA:HB3	1.97	0.46
5:M:167:GLN:HA	5:M:170:LYS:HZ2	1.81	0.46
5:M:509:THR:HG23	5:M:512:GLY:H	1.79	0.46
6:N:299:PRO:HA	6:N:302:LEU:HB3	1.98	0.46
7:O:277:LYS:HG3	7:O:334:VAL:HG21	1.98	0.46
9:1:36:GLN:O	9:1:40:THR:N	2.34	0.46
1:A:474:ALA:HA	1:A:485:TRP:CZ3	2.51	0.46
2:B:156:ARG:NH1	2:B:184:VAL:HG23	2.30	0.46
2:B:204:LYS:N	2:B:375:LEU:O	2.42	0.46
2:B:231:ARG:NH2	2:B:233:GLU:OE2	2.48	0.46
2:B:352:VAL:HB	2:B:361:HIS:CE1	2.50	0.46
3:C:80:MET:O	3:C:83:ILE:HG13	2.15	0.46
3:C:137:LEU:HB3	3:C:499:LEU:CD1	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:224:VAL:HB	4:D:387:THR:CG2	2.46	0.46
4:D:276:LEU:HD13	4:D:280:ARG:NH2	2.23	0.46
4:D:402:GLU:HA	4:D:405:ILE:HG12	1.98	0.46
5:E:91:MET:O	5:E:95:SER:N	2.40	0.46
5:E:284:LYS:HD3	5:E:287:GLU:OE1	2.16	0.46
5:E:351:GLU:HA	5:E:355:PHE:CZ	2.51	0.46
6:F:459:LEU:HD12	6:F:460:GLN:N	2.31	0.46
7:G:166:LYS:HZ1	7:G:387:ARG:HH11	1.62	0.46
8:H:64:PHE:CE2	8:H:66:THR:HB	2.47	0.46
8:H:434:GLU:HG3	8:H:438:ILE:HD11	1.98	0.46
8:H:492:MET:HA	8:H:497:ILE:HB	1.98	0.46
1:I:28:ILE:HA	1:I:31:ILE:HD12	1.97	0.46
1:I:287:LEU:HD21	1:I:362:ILE:HG21	1.98	0.46
2:J:500:LYS:HA	2:J:503:VAL:HG22	1.98	0.46
3:K:36:ILE:HD13	6:N:519:ASP:HB2	1.97	0.46
3:K:434:GLN:HE21	3:K:438:ARG:NH2	2.10	0.46
3:K:469:LYS:NZ	3:K:475:CYS:O	2.48	0.46
4:L:461:ILE:CG1	4:L:462:PRO:HD3	2.45	0.46
5:M:250:ILE:HA	5:M:301:ILE:HG13	1.97	0.46
5:M:434:SER:O	5:M:437:ALA:HB3	2.16	0.46
5:M:488:ALA:O	5:M:502:LYS:N	2.49	0.46
6:N:412:GLY:HA3	6:N:448:PRO:HG3	1.98	0.46
7:O:107:GLN:HE22	7:O:441:ALA:CA	2.29	0.46
7:O:192:LEU:HD22	7:O:390:HIS:CE1	2.50	0.46
8:P:242:TYR:HA	8:P:333:LEU:H	1.81	0.46
11:3:108:ALA:HB2	13:5:49:CYS:SG	2.56	0.46
13:5:50:LEU:HD21	13:5:96:ALA:O	2.15	0.46
1:A:20:GLN:HA	1:A:23:MET:HB2	1.98	0.46
1:A:341:GLU:HG3	1:A:343:ALA:N	2.28	0.46
2:B:272:LYS:O	2:B:276:LYS:N	2.35	0.46
2:B:280:GLU:O	2:B:284:LYS:N	2.49	0.46
2:B:441:LYS:O	2:B:445:MET:HG3	2.15	0.46
3:C:19:GLY:N	3:C:520:ASP:O	2.40	0.46
3:C:334:ARG:NE	3:C:337:GLU:HB3	2.31	0.46
3:C:396:GLN:O	3:C:399:ARG:HG2	2.16	0.46
4:D:271:GLN:NE2	12:4:48:GLN:HE22	2.07	0.46
5:E:152:SER:HB3	5:E:418:VAL:HG23	1.97	0.46
5:E:211:VAL:HA	5:E:385:ILE:HG23	1.98	0.46
5:E:311:ASN:O	5:E:315:LEU:HG	2.15	0.46
5:E:441:PRO:HG2	4:L:485:ALA:O	2.16	0.46
6:F:178:ALA:O	6:F:181:LYS:HB3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:337:ASP:O	6:F:339:LEU:HG	2.16	0.46
7:G:125:PHE:CG	7:G:511:CYS:HB3	2.51	0.46
1:I:240:SER:HA	1:I:290:GLY:HA3	1.97	0.46
1:I:285:VAL:HA	1:I:306:MET:HE2	1.98	0.46
1:I:290:GLY:O	1:I:309:ARG:HB3	2.16	0.46
2:J:32:ALA:HB3	2:J:110:LEU:CD1	2.46	0.46
2:J:53:LEU:HD11	4:L:532:ILE:HD13	1.97	0.46
2:J:61:LEU:HG	4:L:86:PRO:HB3	1.98	0.46
2:J:238:LEU:HB3	2:J:290:PHE:HA	1.98	0.46
3:K:97:SER:O	3:K:100:ILE:HG12	2.16	0.46
3:K:230:ARG:HH12	3:K:350:LEU:HD21	1.81	0.46
4:L:520:THR:O	4:L:523:THR:HB	2.16	0.46
5:M:149:ASP:HA	5:M:510:LEU:HD21	1.97	0.46
6:N:336:PHE:N	6:N:336:PHE:CD1	2.84	0.46
7:O:200:VAL:HG23	7:O:375:ARG:HG3	1.97	0.46
7:O:246:LEU:HD12	7:O:298:VAL:HG12	1.97	0.46
7:O:504:THR:HG23	7:O:505:ALA:N	2.31	0.46
8:P:100:GLY:O	8:P:104:VAL:HG23	2.15	0.46
8:P:290:VAL:HA	8:P:311:MET:HB2	1.97	0.46
12:4:61:ASP:OD2	12:4:65:LEU:HB2	2.16	0.46
13:5:48:ASP:HA	13:5:51:ASN:ND2	2.31	0.46
14:6:34:GLU:HA	14:6:37:LEU:HB3	1.97	0.46
1:A:24:ALA:O	1:A:28:ILE:HG12	2.15	0.45
1:A:114:PRO:HB3	1:A:525:LEU:HD11	1.96	0.45
1:A:127:GLU:HA	1:A:130:ARG:NH1	2.32	0.45
1:A:188:PRO:O	1:A:189:ARG:HB2	2.17	0.45
1:A:190:TYR:HB2	1:A:403:LEU:HD13	1.98	0.45
1:A:201:HIS:CD2	1:A:382:ASP:HA	2.51	0.45
1:A:229:ILE:HD11	1:A:285:VAL:CG2	2.46	0.45
1:A:475:GLN:O	1:A:485:TRP:N	2.44	0.45
2:B:81:ALA:O	2:B:85:VAL:HG23	2.15	0.45
2:B:476:ALA:HA	2:B:487:ASP:HA	1.97	0.45
3:C:49:MET:O	6:F:521:ILE:HA	2.16	0.45
3:C:514:VAL:HG12	3:C:518:ARG:NE	2.31	0.45
4:D:319:LYS:HE2	14:6:74:ALA:H	1.81	0.45
4:D:466:ALA:HB1	4:D:471:LEU:HD23	1.98	0.45
5:E:421:GLY:HA2	5:E:425:ALA:H	1.81	0.45
5:E:498:THR:HG23	5:E:504:GLN:NE2	2.31	0.45
6:F:101:GLU:HG3	6:F:443:ALA:HA	1.97	0.45
6:F:155:SER:O	6:F:158:THR:HB	2.16	0.45
6:F:207:ILE:HG23	6:F:364:GLU:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:228:ALA:HB3	6:F:347:ALA:N	2.21	0.45
6:F:459:LEU:O	6:F:463:LEU:HG	2.16	0.45
7:G:242:VAL:HA	7:G:293:LEU:HD12	1.96	0.45
8:H:138:LYS:O	8:H:141:GLU:HB3	2.16	0.45
8:H:182:LEU:O	8:H:186:ALA:N	2.49	0.45
8:H:341:LEU:HA	8:H:343:GLU:OE1	2.16	0.45
1:I:155:SER:OG	1:I:502:GLY:N	2.49	0.45
2:J:415:MET:SD	2:J:444:ARG:HG2	2.56	0.45
2:J:451:ALA:O	2:J:456:TYR:N	2.46	0.45
3:K:62:ASP:OD2	3:K:65:ALA:N	2.47	0.45
3:K:121:VAL:HG12	3:K:436:PRO:HG2	1.98	0.45
3:K:198:TYR:CE1	3:K:322:ARG:HD2	2.42	0.45
4:L:164:LEU:O	4:L:168:THR:N	2.43	0.45
4:L:227:LEU:HB2	4:L:339:THR:HG21	1.98	0.45
5:M:186:ALA:O	5:M:190:VAL:HG23	2.15	0.45
6:N:34:LEU:HD22	6:N:96:VAL:HG11	1.98	0.45
6:N:40:PRO:CD	6:N:481:LEU:HB3	2.46	0.45
6:N:228:ALA:O	6:N:346:HIS:HA	2.16	0.45
8:P:150:SER:OG	8:P:407:ARG:HA	2.16	0.45
8:P:509:LYS:HG2	8:P:513:ASN:HD21	1.79	0.45
9:1:41:LYS:O	9:1:84:GLN:HG3	2.15	0.45
9:1:70:LEU:O	13:5:60:LYS:HD2	2.16	0.45
13:5:100:LYS:HA	13:5:103:PHE:HB2	1.99	0.45
13:5:118:GLN:HB3	13:5:119:PRO:HD3	1.99	0.45
14:6:30:ARG:NE	14:6:87:ILE:HG23	2.30	0.45
1:A:114:PRO:O	1:A:525:LEU:HD21	2.16	0.45
1:A:245:LYS:NZ	3:C:274:TYR:HA	2.31	0.45
1:A:416:GLU:HG2	1:A:449:PRO:CD	2.46	0.45
1:A:486:ILE:HD11	1:A:497:ASP:HA	1.97	0.45
2:B:96:GLY:O	2:B:392:ASP:HB3	2.16	0.45
2:B:296:ILE:HG22	2:B:301:GLU:HB2	1.97	0.45
2:B:411:GLY:HA3	2:B:447:PRO:HG3	1.99	0.45
2:B:418:ALA:HB1	2:B:444:ARG:HE	1.81	0.45
3:C:226:HIS:HA	3:C:359:TYR:HD2	1.81	0.45
3:C:510:VAL:O	3:C:514:VAL:HG23	2.15	0.45
4:D:153:ARG:HH22	4:D:423:ALA:N	2.14	0.45
5:E:152:SER:OG	5:E:420:TYR:N	2.48	0.45
5:E:427:ILE:HG13	5:E:481:GLN:HG3	1.99	0.45
5:E:534:ARG:NH2	7:G:66:LEU:HD23	2.32	0.45
6:F:99:ILE:HD11	6:F:508:CYS:HA	1.98	0.45
6:F:467:GLN:O	6:F:471:SER:N	2.26	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:419:TYR:CZ	7:G:423:TYR:HB2	2.51	0.45
8:H:49:PRO:HG3	8:H:169:MET:SD	2.56	0.45
8:H:239:ILE:H	8:H:344:MET:C	2.18	0.45
8:H:347:CYS:SG	8:H:365:HIS:ND1	2.86	0.45
8:H:365:HIS:CE1	8:H:372:ILE:HD13	2.51	0.45
1:I:201:HIS:HA	1:I:379:GLY:H	1.81	0.45
1:I:335:GLU:HG3	1:I:337:GLU:H	1.80	0.45
1:I:419:LEU:HA	1:I:422:TYR:CD2	2.51	0.45
2:J:186:ALA:HB1	2:J:195:ASN:HB2	1.97	0.45
3:K:130:LEU:HD12	3:K:133:MET:HE1	1.97	0.45
3:K:230:ARG:HE	3:K:310:THR:HG22	1.81	0.45
3:K:389:ARG:HH12	3:K:393:ASP:CG	2.20	0.45
4:L:254:SER:HA	4:L:259:ASP:HB2	1.97	0.45
4:L:424:GLY:H	4:L:508:VAL:HG12	1.81	0.45
5:M:169:ALA:HB2	5:M:409:ILE:HD11	1.97	0.45
6:N:145:ARG:HG3	6:N:173:VAL:CG1	2.46	0.45
7:O:101:ALA:HB1	7:O:509:ALA:HB3	1.98	0.45
8:P:245:PRO:HB3	8:P:296:LYS:H	1.81	0.45
8:P:401:VAL:HG12	8:P:405:ASP:OD1	2.16	0.45
8:P:418:GLU:HG2	8:P:472:GLN:HE22	1.80	0.45
8:P:436:TYR:O	8:P:440:LYS:N	2.34	0.45
11:3:88:LEU:O	11:3:92:GLN:N	2.46	0.45
11:3:104:ARG:HD3	11:3:114:LYS:HA	1.97	0.45
13:5:90:TYR:CE2	13:5:92:VAL:HG13	2.51	0.45
2:B:155:PHE:CZ	2:B:401:VAL:HG22	2.51	0.45
3:C:512:THR:HA	3:C:515:LEU:HB3	1.97	0.45
4:D:137:PHE:CE1	4:D:450:CYS:HB3	2.52	0.45
6:F:156:LEU:HD21	6:F:391:VAL:HA	1.98	0.45
6:F:237:LEU:HG	6:F:336:PHE:CE2	2.51	0.45
7:G:156:GLU:HG3	7:G:180:VAL:HG21	1.98	0.45
7:G:279:GLU:HB3	7:G:283:HIS:NE2	2.31	0.45
7:G:444:ILE:O	7:G:448:GLN:HG2	2.16	0.45
7:G:490:ALA:O	7:G:491:PHE:HB2	2.16	0.45
8:H:26:GLU:HA	8:H:30:TYR:CD2	2.50	0.45
8:H:143:LEU:HG	8:H:501:TYR:CE1	2.52	0.45
8:H:149:CYS:O	8:H:408:LEU:N	2.50	0.45
8:H:436:TYR:HE1	3:K:467:ARG:HH22	1.65	0.45
1:I:45:LEU:HD23	3:K:522:ILE:HA	1.98	0.45
1:I:427:ALA:HB1	1:I:435:GLN:HA	1.98	0.45
1:I:440:GLU:HA	1:I:443:ARG:NE	2.30	0.45
2:J:52:LEU:HB3	2:J:62:MET:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:157:GLN:HA	2:J:160:MET:HB3	1.99	0.45
2:J:189:ARG:HB2	2:J:369:GLU:HG2	1.98	0.45
2:J:326:VAL:HB	2:J:365:VAL:HG21	1.98	0.45
3:K:132:ASP:HB2	3:K:425:LYS:HD2	1.97	0.45
3:K:155:ILE:HG22	3:K:496:TRP:CG	2.51	0.45
3:K:237:ARG:HD3	3:K:287:PRO:HA	1.98	0.45
3:K:469:LYS:NZ	3:K:474:ASN:O	2.49	0.45
4:L:74:GLY:O	4:L:78:LEU:HG	2.15	0.45
4:L:211:VAL:HG23	4:L:389:VAL:HG13	1.98	0.45
5:M:84:ASP:OD2	7:O:53:ARG:NH2	2.50	0.45
5:M:356:ALA:HB2	5:M:374:ILE:HG23	1.97	0.45
6:N:102:LEU:HD13	6:N:440:PHE:HA	1.97	0.45
6:N:241:LYS:HA	6:N:337:ASP:OD1	2.16	0.45
6:N:496:ASP:OD1	6:N:497:ASN:N	2.49	0.45
7:O:21:GLN:NE2	7:O:25:ASN:OD1	2.37	0.45
7:O:143:VAL:HG13	7:O:405:VAL:HB	1.99	0.45
7:O:237:ILE:HA	7:O:288:VAL:O	2.16	0.45
8:P:467:LEU:HD21	8:P:477:ASN:HA	1.98	0.45
9:1:44:ALA:O	9:1:80:LEU:HG	2.17	0.45
9:1:60:MET:HE2	9:1:76:ILE:HG21	1.99	0.45
9:1:109:GLU:HG2	9:1:113:ARG:HE	1.80	0.45
11:3:93:LYS:HB2	11:3:98:THR:HA	1.97	0.45
11:3:104:ARG:HE	14:6:55:VAL:HG21	1.81	0.45
13:5:12:LEU:HD22	13:5:135:MET:O	2.17	0.45
1:A:182:THR:HA	1:A:370:ARG:NH1	2.26	0.45
1:A:231:ASN:OD1	1:A:368:LYS:HE2	2.16	0.45
2:B:67:GLY:O	2:B:71:LEU:HG	2.16	0.45
2:B:138:ARG:HA	2:B:141:LEU:HB3	1.97	0.45
2:B:151:ASP:H	2:B:154:LYS:HD3	1.81	0.45
3:C:280:GLU:O	3:C:284:GLN:HG3	2.17	0.45
3:C:285:LEU:HD22	3:C:340:GLU:HA	1.98	0.45
4:D:160:ARG:HE	4:D:189:ASN:CA	2.30	0.45
4:D:200:ALA:HB3	4:D:416:VAL:HB	1.97	0.45
4:D:280:ARG:HB3	14:6:78:LYS:NZ	2.32	0.45
5:E:228:VAL:HG23	5:E:374:ILE:HD13	1.97	0.45
5:E:229:ILE:HD11	5:E:386:PHE:HB2	1.98	0.45
5:E:288:MET:HA	5:E:345:PHE:HE1	1.81	0.45
6:F:274:ILE:HD11	6:F:336:PHE:CD1	2.52	0.45
7:G:182:ALA:HA	7:G:185:MET:HB2	1.99	0.45
7:G:232:TYR:HB3	7:G:234:ASN:H	1.82	0.45
7:G:278:LEU:HB2	7:G:303:PHE:HE1	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:42:THR:HG21	8:H:72:ILE:HG21	1.99	0.45
8:H:222:VAL:HG13	8:H:360:VAL:CG1	2.47	0.45
8:H:227:THR:OG1	8:H:352:LEU:HD13	2.17	0.45
1:I:172:VAL:HG21	1:I:395:ALA:HB3	1.98	0.45
1:I:329:SER:OG	1:I:330:THR:N	2.49	0.45
2:J:137:ALA:HB1	2:J:417:MET:HB3	1.99	0.45
2:J:297:TYR:HB2	2:J:300:PRO:HD2	1.98	0.45
2:J:447:PRO:HB3	2:J:478:LEU:HD21	1.98	0.45
2:J:517:VAL:HG11	5:M:60:MET:HB3	1.99	0.45
3:K:182:MET:HA	3:K:367:LYS:HD2	1.99	0.45
5:M:408:VAL:HG13	5:M:509:THR:HB	1.99	0.45
6:N:209:GLY:HA2	6:N:366:CYS:SG	2.56	0.45
6:N:209:GLY:HA3	6:N:364:GLU:HG2	1.99	0.45
6:N:424:LYS:C	6:N:426:LYS:H	2.20	0.45
7:O:66:LEU:HB3	7:O:80:VAL:HG22	1.98	0.45
7:O:152:ARG:O	7:O:155:LEU:HB2	2.16	0.45
7:O:171:GLN:HE21	7:O:206:GLU:HG2	1.82	0.45
8:P:179:LEU:HD11	8:P:388:ILE:CG2	2.44	0.45
8:P:243:SER:N	8:P:332:ALA:HB1	2.31	0.45
14:6:58:LYS:HG2	14:6:67:GLN:CG	2.40	0.45
1:A:152:ALA:O	1:A:156:MET:N	2.50	0.45
2:B:136:ALA:HB3	2:B:421:VAL:HG22	1.98	0.45
2:B:326:VAL:HA	2:B:367:LEU:HB2	1.99	0.45
2:B:427:ARG:C	2:B:429:PRO:HD3	2.37	0.45
3:C:44:LYS:HG3	3:C:483:GLU:HG3	1.98	0.45
3:C:375:LEU:HD21	3:C:377:ARG:NE	2.31	0.45
3:C:463:LEU:HB3	3:C:467:ARG:HH12	1.81	0.45
4:D:246:ILE:HD11	4:D:359:ALA:HB2	1.98	0.45
4:D:395:LYS:O	4:D:399:GLU:HG3	2.16	0.45
5:E:219:LEU:HD23	5:E:389:GLY:HA2	1.97	0.45
5:E:244:GLU:HG3	5:E:298:ASN:CB	2.42	0.45
6:F:50:GLY:HA2	8:H:20:LYS:HB2	1.98	0.45
6:F:101:GLU:CG	6:F:443:ALA:HA	2.46	0.45
6:F:213:ASP:HA	6:F:360:PHE:CD1	2.52	0.45
7:G:255:ILE:HB	7:G:266:ILE:HD13	1.98	0.45
7:G:339:ALA:O	7:G:342:LEU:HB2	2.17	0.45
7:G:350:GLU:OE2	7:G:357:ARG:HB3	2.16	0.45
7:G:395:ILE:HG12	7:G:398:ARG:NH2	2.29	0.45
8:H:142:ILE:HB	8:H:419:LEU:CD2	2.47	0.45
8:H:217:VAL:HG22	8:H:375:ILE:HG12	1.99	0.45
1:I:244:THR:HA	1:I:264:ARG:NE	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:260:LEU:HD13	3:K:248:LYS:HE3	1.99	0.45
1:I:278:ILE:HG12	1:I:340:PHE:CD2	2.51	0.45
1:I:515:LYS:O	1:I:519:GLU:N	2.47	0.45
2:J:29:PHE:HA	2:J:110:LEU:HB3	1.98	0.45
2:J:347:LYS:HG2	2:J:348:LEU:HG	1.97	0.45
3:K:64:ASN:HB3	3:K:68:ARG:HH12	1.82	0.45
5:M:254:PRO:HG3	5:M:258:PRO:HB3	1.99	0.45
5:M:517:ILE:O	5:M:521:THR:N	2.32	0.45
6:N:290:VAL:HG21	6:N:350:VAL:HG21	1.98	0.45
6:N:416:VAL:HG11	6:N:466:ILE:HG22	1.98	0.45
7:O:163:LEU:HD21	7:O:179:VAL:HG21	1.99	0.45
7:O:350:GLU:OE2	7:O:357:ARG:HB3	2.16	0.45
7:O:518:GLU:HB3	8:P:54:LYS:HD2	1.97	0.45
8:P:222:VAL:CG2	8:P:355:VAL:HG21	2.47	0.45
11:3:78:ILE:HG23	11:3:148:LEU:HD11	1.99	0.45
11:3:151:ALA:HA	11:3:154:ASN:ND2	2.32	0.45
1:A:19:SER:O	1:A:23:MET:HG2	2.17	0.45
1:A:157:SER:HB3	1:A:387:GLU:OE1	2.17	0.45
1:A:172:VAL:HA	1:A:175:ALA:HB3	1.97	0.45
1:A:254:ILE:HD12	3:C:276:GLN:OE1	2.16	0.45
1:A:446:LEU:HB3	1:A:464:VAL:HG21	1.97	0.45
2:B:285:HIS:HB3	2:B:287:ILE:HG23	1.99	0.45
3:C:38:ARG:O	3:C:450:THR:HG23	2.17	0.45
3:C:183:VAL:HG13	3:C:372:CYS:O	2.16	0.45
3:C:261:GLU:CB	9:1:97:LYS:HD2	2.47	0.45
3:C:319:ASP:O	3:C:322:ARG:HB2	2.16	0.45
3:C:469:LYS:HZ3	3:C:478:TRP:HD1	1.65	0.45
5:E:412:LEU:C	5:E:416:ASN:HD22	2.19	0.45
5:E:513:LYS:O	5:E:517:ILE:N	2.48	0.45
6:F:173:VAL:O	6:F:177:LEU:HG	2.16	0.45
7:G:395:ILE:O	7:G:399:ALA:N	2.39	0.45
7:G:432:GLN:HE22	1:I:468:ARG:HH11	1.64	0.45
1:I:179:ILE:HD12	1:I:181:TYR:CE2	2.52	0.45
1:I:237:LEU:N	1:I:287:LEU:O	2.49	0.45
1:I:349:GLU:H	1:I:368:LYS:HZ3	1.64	0.45
3:K:467:ARG:HA	3:K:470:HIS:HB2	1.98	0.45
5:M:178:VAL:HG21	5:M:219:LEU:HD22	1.98	0.45
5:M:212:GLU:HG2	5:M:229:ILE:HD11	1.98	0.45
6:N:123:PHE:O	6:N:126:ALA:N	2.49	0.45
6:N:165:ALA:O	6:N:169:THR:N	2.47	0.45
6:N:278:LYS:NZ	6:N:289:PHE:H	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:398:ARG:HD3	7:O:401:LYS:HD3	1.97	0.45
9:1:44:ALA:HA	9:1:47:THR:HG1	1.82	0.45
11:3:78:ILE:HB	11:3:79:PRO:HD3	1.99	0.45
12:4:88:GLU:OE2	12:4:91:LYS:NZ	2.37	0.45
13:5:25:GLU:HB3	13:5:124:LYS:HD2	1.99	0.45
1:A:59:ALA:O	1:A:63:LYS:NZ	2.39	0.45
1:A:119:SER:HA	1:A:122:ARG:HE	1.82	0.45
1:A:196:ASN:ND2	1:A:214:TYR:HB3	2.31	0.45
1:A:298:LYS:O	1:A:302:GLU:HG2	2.17	0.45
2:B:290:PHE:O	2:B:311:ALA:HA	2.17	0.45
2:B:382:ILE:O	2:B:386:ALA:N	2.45	0.45
3:C:133:MET:SD	3:C:418:VAL:HG21	2.57	0.45
3:C:188:ASN:ND2	3:C:192:GLU:HB2	2.31	0.45
3:C:194:ASP:N	3:C:194:ASP:OD1	2.48	0.45
3:C:272:GLU:OE2	3:C:302:HIS:NE2	2.35	0.45
3:C:488:VAL:HB	3:C:493:LEU:HD13	1.99	0.45
3:C:514:VAL:O	3:C:518:ARG:HG3	2.16	0.45
5:E:254:PRO:HD3	5:E:258:PRO:HG3	1.98	0.45
6:F:84:GLN:OE1	6:F:504:LEU:HA	2.16	0.45
6:F:480:ASP:N	6:F:485:GLU:O	2.39	0.45
7:G:36:VAL:HG23	7:G:95:THR:HG23	1.97	0.45
8:H:137:ARG:O	8:H:141:GLU:N	2.50	0.45
8:H:348:ASP:OD1	8:H:365:HIS:HA	2.17	0.45
1:I:203:ARG:HD2	1:I:357:CYS:SG	2.57	0.45
1:I:431:GLY:HA2	1:I:435:GLN:HB2	1.99	0.45
1:I:513:SER:O	1:I:517:ALA:N	2.46	0.45
2:J:116:LEU:HD22	2:J:434:VAL:HG13	1.99	0.45
2:J:291:ILE:HG22	2:J:312:ILE:HB	1.98	0.45
2:J:416:LEU:HG	2:J:469:HIS:HE1	1.82	0.45
3:K:243:SER:OG	3:K:333:SER:HB3	2.17	0.45
4:L:187:SER:HA	4:L:409:LEU:HD23	1.98	0.45
4:L:407:ASP:O	4:L:411:VAL:N	2.27	0.45
4:L:448:SER:O	4:L:452:ARG:HB2	2.16	0.45
5:M:288:MET:HA	5:M:291:GLN:HB3	1.98	0.45
5:M:288:MET:O	5:M:292:ILE:N	2.35	0.45
5:M:314:LEU:HD21	5:M:321:ALA:H	1.81	0.45
5:M:472:GLN:O	5:M:475:THR:OG1	2.35	0.45
6:N:157:ARG:HA	6:N:160:VAL:O	2.17	0.45
6:N:221:MET:HG2	6:N:311:VAL:HG13	1.99	0.45
7:O:235:PRO:HG2	7:O:237:ILE:HD11	1.98	0.45
8:P:68:ASP:OD1	8:P:101:THR:OG1	2.27	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:166:THR:HA	8:P:169:MET:CG	2.47	0.45
8:P:232:THR:HG23	8:P:289:ASN:HB3	1.98	0.45
10:2:33:LEU:O	10:2:37:GLN:N	2.36	0.45
10:2:68:ARG:NH2	11:3:135:TYR:HA	2.32	0.45
13:5:57:ASN:OD1	13:5:60:LYS:HG2	2.17	0.45
1:A:225:MET:CG	1:A:306:MET:HA	2.47	0.45
1:A:299:TYR:HA	1:A:302:GLU:HG2	1.98	0.45
2:B:175:HIS:CE1	2:B:209:LEU:HB2	2.52	0.45
3:C:237:ARG:HB3	3:C:344:GLY:HA3	1.99	0.45
3:C:374:ILE:HD13	3:C:391:LEU:HD11	1.98	0.45
4:D:272:MET:SD	14:6:86:GLU:HG2	2.57	0.45
6:F:107:ASP:O	6:F:111:SER:N	2.40	0.45
6:F:154:THR:HB	6:F:494:VAL:HA	1.98	0.45
6:F:223:LYS:O	6:F:351:TYR:HA	2.17	0.45
7:G:258:HIS:NE2	7:G:259:THR:HG22	2.32	0.45
7:G:358:TYR:CD2	7:G:360:PHE:HE1	2.35	0.45
7:G:500:ILE:HA	7:G:503:LEU:HB2	1.99	0.45
1:I:15:GLU:O	1:I:19:SER:N	2.27	0.45
1:I:125:CYS:O	1:I:129:VAL:N	2.33	0.45
1:I:178:ALA:HB2	1:I:373:ALA:HB3	1.99	0.45
1:I:389:GLU:HA	1:I:392:LEU:HD12	1.98	0.45
2:J:43:LEU:HD13	2:J:100:THR:C	2.37	0.45
2:J:204:LYS:HE2	2:J:359:LEU:HD11	1.99	0.45
2:J:519:ASN:HB3	5:M:59:LYS:HG2	1.98	0.45
3:K:91:VAL:HG23	3:K:93:ASP:H	1.82	0.45
3:K:168:TRP:HZ2	3:K:383:ILE:HG12	1.82	0.45
3:K:418:VAL:O	3:K:422:LEU:N	2.29	0.45
4:L:44:VAL:O	4:L:48:ILE:HG13	2.17	0.45
4:L:157:LEU:HD21	4:L:199:THR:CB	2.47	0.45
4:L:252:CYS:SG	4:L:308:ALA:HB1	2.57	0.45
4:L:445:GLY:H	4:L:448:SER:HB2	1.81	0.45
5:M:116:LEU:HB2	5:M:524:VAL:HG21	1.98	0.45
5:M:218:ARG:NE	5:M:220:GLU:HB2	2.32	0.45
5:M:256:GLU:HA	5:M:307:ASP:HB2	1.98	0.45
5:M:282:LYS:HA	5:M:309:GLU:OE2	2.17	0.45
7:O:345:CYS:SG	7:O:361:PHE:HB3	2.57	0.45
7:O:402:ASN:HB3	7:O:495:PRO:HB3	1.99	0.45
8:P:188:VAL:HA	8:P:194:SER:OG	2.16	0.45
9:1:26:LYS:O	9:1:97:LYS:NZ	2.23	0.45
12:4:55:ASP:O	12:4:59:LEU:N	2.49	0.45
1:A:14:GLY:HA2	1:A:528:ASP:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:352:VAL:HB	1:A:365:LYS:CE	2.47	0.45
2:B:268:GLU:HG3	2:B:272:LYS:HE2	1.98	0.45
2:B:467:ALA:HA	2:B:470:SER:HB2	1.98	0.45
3:C:229:MET:HG2	3:C:312:ILE:HD13	1.99	0.45
3:C:435:TRP:HB2	3:C:436:PRO:HD3	1.98	0.45
3:C:488:VAL:HG21	3:C:493:LEU:HD22	1.99	0.45
4:D:346:ALA:N	4:D:350:GLN:OE1	2.39	0.45
4:D:447:GLU:OE1	4:D:447:GLU:N	2.47	0.45
5:E:42:LYS:HG3	5:E:43:ALA:N	2.32	0.45
5:E:232:LYS:HZ1	5:E:299:LEU:HD11	1.82	0.45
5:E:315:LEU:HD22	5:E:320:PRO:HG3	1.99	0.45
5:E:541:GLU:HB3	7:G:50:VAL:CG1	2.46	0.45
6:F:24:ILE:HG22	6:F:103:LEU:HD13	1.99	0.45
7:G:295:ILE:HD12	7:G:303:PHE:CE2	2.49	0.45
8:H:114:LEU:HD22	8:H:440:LYS:HD2	1.99	0.45
8:H:207:ILE:HB	8:H:378:ARG:HA	1.99	0.45
8:H:480:LEU:O	8:H:481:ASP:HB2	2.16	0.45
1:I:321:LYS:HG2	1:I:370:ARG:HE	1.80	0.45
1:I:326:THR:H	1:I:344:MET:HA	1.81	0.45
1:I:453:ALA:HB1	1:I:458:GLN:HB2	1.99	0.45
2:J:219:LEU:HA	2:J:361:HIS:HA	1.98	0.45
2:J:232:ILE:HG22	2:J:235:ALA:HB2	1.99	0.45
2:J:293:ARG:HD3	2:J:315:ALA:O	2.17	0.45
2:J:475:THR:HG22	2:J:487:ASP:HB3	1.99	0.45
3:K:273:GLU:O	3:K:276:GLN:HB3	2.17	0.45
3:K:491:LYS:HG3	3:K:496:TRP:HZ2	1.78	0.45
4:L:139:LYS:HZ3	4:L:447:GLU:HG2	1.82	0.45
4:L:169:THR:HG21	4:L:509:VAL:HG22	1.98	0.45
5:M:392:LYS:HA	5:M:395:ILE:HG12	1.99	0.45
6:N:44:MET:HG3	6:N:386:GLN:NE2	2.32	0.45
6:N:353:TYR:HE2	6:N:355:LEU:HD22	1.82	0.45
6:N:409:PRO:HA	6:N:495:TRP:CD1	2.51	0.45
7:O:215:ALA:HA	7:O:360:PHE:HA	1.99	0.45
8:P:232:THR:HG23	8:P:233:SER:N	2.32	0.45
8:P:239:ILE:CD1	8:P:324:LEU:HD21	2.46	0.45
8:P:243:SER:HB3	8:P:321:LEU:HD21	1.98	0.45
9:1:17:GLN:O	9:1:21:ILE:HG12	2.17	0.45
11:3:97:SER:HB2	11:3:118:PRO:HB3	1.99	0.45
11:3:98:THR:HG21	11:3:137:ILE:HD12	1.98	0.45
12:4:36:LEU:HD12	12:4:108:ILE:HG21	1.99	0.45
1:A:78:LEU:HA	1:A:81:LEU:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:114:PRO:HB3	1:A:525:LEU:CD1	2.47	0.45
1:A:313:LYS:O	1:A:317:LYS:N	2.42	0.45
3:C:95:THR:HA	3:C:98:VAL:HG22	1.99	0.45
3:C:415:GLU:HB3	3:C:444:LEU:O	2.17	0.45
3:C:469:LYS:HD2	3:C:473:GLU:OE1	2.17	0.45
4:D:126:LYS:HE2	4:D:449:TYR:HB3	1.99	0.45
4:D:190:ALA:O	4:D:194:VAL:HG22	2.17	0.45
4:D:342:THR:OG1	4:D:357:GLY:HA3	2.17	0.45
5:E:173:LEU:HB2	5:E:181:CYS:SG	2.57	0.45
5:E:267:ASP:OD2	7:G:256:ARG:NH2	2.50	0.45
6:F:129:LYS:HG2	6:F:427:PRO:HB3	1.99	0.45
6:F:135:GLU:HA	6:F:138:LYS:HG2	1.98	0.45
6:F:436:GLY:O	6:F:440:PHE:N	2.46	0.45
7:G:321:ARG:CG	7:G:369:THR:HG21	2.47	0.45
8:H:228:GLU:CB	8:H:312:LEU:HB2	2.46	0.45
8:H:241:VAL:HB	8:H:330:ALA:HB1	1.97	0.45
8:H:246:PHE:CD1	8:H:276:MET:HG2	2.52	0.45
8:H:322:ARG:HG3	8:H:323:ARG:H	1.81	0.45
1:I:122:ARG:HD2	1:I:518:THR:HG21	1.99	0.45
1:I:172:VAL:HG13	1:I:396:LEU:HA	1.98	0.45
3:K:205:PRO:HD2	3:K:360:PHE:CZ	2.52	0.45
4:L:74:GLY:CA	4:L:77:ILE:HB	2.41	0.45
4:L:143:LYS:O	4:L:146:GLU:HB3	2.17	0.45
4:L:438:GLU:O	4:L:441:ARG:HB3	2.16	0.45
5:M:256:GLU:N	5:M:305:GLY:O	2.50	0.45
5:M:480:ARG:O	5:M:483:LYS:HB2	2.17	0.45
6:N:33:VAL:O	6:N:45:LYS:NZ	2.44	0.45
6:N:68:GLN:O	8:P:527:ALA:HA	2.17	0.45
7:O:257:VAL:HG23	7:O:266:ILE:HD11	1.98	0.45
8:P:49:PRO:HD2	8:P:480:LEU:H	1.82	0.45
8:P:172:GLN:CD	8:P:179:LEU:HD12	2.37	0.45
8:P:178:PHE:CE2	8:P:215:SER:HB2	2.51	0.45
8:P:232:THR:HG23	8:P:233:SER:H	1.82	0.45
9:1:71:GLN:HB2	9:1:76:ILE:HD11	1.98	0.45
10:2:69:LYS:HB3	10:2:80:GLU:OE2	2.16	0.45
10:2:70:CYS:H	10:2:82:THR:HA	1.82	0.45
10:2:93:ASN:HA	10:2:96:GLN:HB3	1.99	0.45
12:4:68:PRO:HB2	12:4:75:PHE:HB3	1.98	0.45
13:5:118:GLN:O	13:5:121:LEU:HB3	2.16	0.45
1:A:26:ALA:O	1:A:30:ASN:N	2.45	0.44
1:A:244:THR:HG21	1:A:335:GLU:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:449:PRO:O	1:A:452:LEU:HB3	2.17	0.44
2:B:391:HIS:HA	2:B:394:LEU:HD12	1.99	0.44
3:C:87:GLN:HB3	3:C:95:THR:HG22	1.98	0.44
3:C:416:MET:HG3	3:C:420:HIS:CE1	2.52	0.44
4:D:364:GLU:HA	4:D:374:LEU:HA	1.98	0.44
4:D:447:GLU:O	4:D:451:VAL:N	2.31	0.44
5:E:156:LEU:H	5:E:416:ASN:HB2	1.82	0.44
5:E:228:VAL:HG21	5:E:333:ILE:HB	2.00	0.44
5:E:465:ASN:OD1	5:E:466:SER:N	2.50	0.44
7:G:104:PHE:CE1	7:G:438:TYR:HA	2.52	0.44
7:G:279:GLU:O	7:G:283:HIS:N	2.30	0.44
8:H:111:LEU:HD12	8:H:114:LEU:HD12	1.99	0.44
8:H:186:ALA:O	8:H:219:HIS:HE1	2.00	0.44
8:H:318:LYS:O	8:H:322:ARG:HG2	2.17	0.44
1:I:244:THR:HA	1:I:264:ARG:CD	2.48	0.44
1:I:257:PRO:HD3	3:K:277:GLN:HB3	1.98	0.44
1:I:400:LYS:O	1:I:404:GLU:HG3	2.17	0.44
2:J:46:LYS:NZ	4:L:531:LYS:HE3	2.32	0.44
2:J:92:ASP:HB2	2:J:99:THR:H	1.82	0.44
2:J:509:GLU:O	2:J:513:VAL:HG23	2.17	0.44
3:K:236:PRO:HA	3:K:288:ASP:OD2	2.16	0.44
3:K:370:LYS:HG3	3:K:372:CYS:N	2.32	0.44
4:L:157:LEU:HA	4:L:163:LEU:HD11	2.00	0.44
4:L:195:ILE:HG12	4:L:196:ASP:N	2.32	0.44
5:M:420:TYR:CE2	5:M:488:ALA:HA	2.52	0.44
7:O:170:GLN:HG2	7:O:171:GLN:HG3	1.99	0.44
8:P:30:TYR:O	8:P:33:ILE:HG13	2.17	0.44
8:P:43:THR:OG1	8:P:102:ASN:HB3	2.17	0.44
8:P:202:ILE:HG13	8:P:373:SER:HB3	1.99	0.44
8:P:220:GLY:CA	8:P:365:HIS:HD1	2.29	0.44
8:P:279:GLN:O	8:P:283:ILE:HG13	2.18	0.44
10:2:79:VAL:HG12	10:2:81:ARG:HG3	1.99	0.44
14:6:30:ARG:HH21	14:6:87:ILE:HG23	1.82	0.44
1:A:270:ILE:O	1:A:274:ARG:N	2.33	0.44
1:A:298:LYS:O	1:A:301:VAL:HG22	2.18	0.44
1:A:308:VAL:HG21	1:A:362:ILE:HG12	2.00	0.44
2:B:424:LEU:HB2	2:B:427:ARG:HH21	1.81	0.44
3:C:232:TYR:HE1	3:C:353:LYS:HG2	1.81	0.44
3:C:422:LEU:O	3:C:426:SER:N	2.49	0.44
4:D:218:ILE:O	4:D:221:CYS:HB2	2.17	0.44
4:D:233:VAL:HG11	4:D:326:LYS:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:250:GLN:CA	4:D:306:ARG:HH22	2.30	0.44
5:E:178:VAL:HG12	5:E:179:ASN:N	2.32	0.44
5:E:191:ASN:HA	5:E:194:LEU:HB3	1.99	0.44
5:E:364:PHE:CE1	5:E:386:PHE:HZ	2.35	0.44
6:F:73:THR:HA	6:F:76:LEU:HD12	1.98	0.44
6:F:470:HIS:CE1	6:F:477:VAL:H	2.35	0.44
6:F:520:GLU:HG2	6:F:521:ILE:N	2.32	0.44
7:G:278:LEU:HD12	7:G:279:GLU:N	2.33	0.44
7:G:444:ILE:HA	7:G:447:ARG:HG2	1.98	0.44
8:H:197:PHE:HB3	8:H:400:LYS:HZ3	1.81	0.44
8:H:506:TRP:HA	8:H:509:LYS:HB3	1.98	0.44
1:I:205:GLN:HG3	1:I:384:MET:HB3	1.98	0.44
1:I:454:VAL:HG22	1:I:459:ASP:HA	1.99	0.44
2:J:78:ASN:HB3	2:J:81:ALA:HB3	1.98	0.44
2:J:162:ILE:HG12	2:J:495:GLU:HA	1.99	0.44
2:J:192:GLY:O	2:J:193:SER:OG	2.35	0.44
2:J:200:HIS:HD2	2:J:318:ALA:HB1	1.81	0.44
3:K:293:GLU:OE1	3:K:293:GLU:N	2.49	0.44
4:L:61:ILE:HD12	4:L:71:THR:HG21	1.99	0.44
5:M:234:PHE:CZ	5:M:243:VAL:HG23	2.52	0.44
6:N:185:PRO:HA	6:N:403:ASP:OD2	2.18	0.44
7:O:97:VAL:HG13	7:O:506:ALA:HB2	1.98	0.44
7:O:182:ALA:O	7:O:186:LEU:N	2.21	0.44
8:P:187:CYS:HB2	8:P:197:PHE:CE1	2.51	0.44
11:3:123:MET:HB2	11:3:140:ALA:HB2	1.98	0.44
13:5:96:ALA:O	13:5:100:LYS:HG3	2.17	0.44
14:6:99:ARG:O	14:6:102:GLU:HB3	2.16	0.44
1:A:292:ILE:HG22	1:A:293:ASP:O	2.17	0.44
1:A:350:GLU:HG3	1:A:365:LYS:HB2	2.00	0.44
2:B:80:ALA:O	2:B:84:LEU:HG	2.18	0.44
2:B:133:ALA:HB1	2:B:439:TYR:CD2	2.52	0.44
3:C:175:ILE:O	3:C:179:ALA:N	2.34	0.44
3:C:400:ASN:HB3	3:C:498:PRO:CG	2.42	0.44
4:D:74:GLY:O	4:D:78:LEU:N	2.35	0.44
5:E:156:LEU:HD22	5:E:412:LEU:HD11	1.99	0.44
5:E:251:LEU:HD21	5:E:292:ILE:HD12	1.99	0.44
5:E:458:ILE:H	5:E:458:ILE:HD12	1.81	0.44
6:F:67:MET:CG	8:H:523:GLN:HE22	2.30	0.44
6:F:77:ILE:HA	6:F:80:VAL:HG12	1.98	0.44
6:F:417:ALA:O	6:F:421:ALA:N	2.28	0.44
6:F:423:ILE:HD13	6:F:437:VAL:HG12	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:81:ASP:O	7:G:85:SER:N	2.34	0.44
7:G:214:VAL:HG21	7:G:322:THR:HA	2.00	0.44
8:H:123:LEU:HG	8:H:433:LEU:HD22	1.99	0.44
8:H:217:VAL:HG22	8:H:375:ILE:HG23	2.00	0.44
8:H:242:TYR:HE2	8:H:283:ILE:HD11	1.82	0.44
1:I:508:ILE:O	1:I:511:VAL:HG22	2.17	0.44
2:J:37:ASP:HA	2:J:40:LYS:HG2	1.99	0.44
2:J:258:VAL:HA	2:J:263:LYS:CB	2.47	0.44
3:K:133:MET:O	3:K:137:LEU:HB2	2.17	0.44
4:L:223:LEU:HD11	4:L:386:VAL:HG22	1.99	0.44
5:M:210:LYS:HD3	5:M:384:THR:OG1	2.17	0.44
5:M:261:LYS:HD3	7:O:246:LEU:HB2	1.99	0.44
5:M:314:LEU:HD21	5:M:321:ALA:N	2.32	0.44
5:M:500:ASP:OD2	5:M:503:GLN:HB2	2.17	0.44
6:N:105:GLN:HG3	6:N:442:ASP:HB2	1.99	0.44
6:N:351:TYR:O	6:N:362:PHE:N	2.43	0.44
6:N:429:VAL:HG13	6:N:430:LYS:N	2.28	0.44
6:N:469:GLU:OE1	6:N:486:PRO:HB2	2.18	0.44
7:O:111:TYR:HA	7:O:114:GLU:HG2	1.99	0.44
8:P:114:LEU:HB3	8:P:440:LYS:HD2	1.99	0.44
8:P:155:ARG:HA	8:P:188:VAL:CG1	2.48	0.44
8:P:439:LYS:O	8:P:443:GLU:HG3	2.16	0.44
11:3:70:LYS:HG3	11:3:162:LEU:HD12	1.99	0.44
12:4:22:LYS:HE2	12:4:118:GLN:HB3	1.98	0.44
13:5:90:TYR:HE2	13:5:92:VAL:HG13	1.81	0.44
1:A:159:LYS:HD3	1:A:387:GLU:HG3	1.99	0.44
1:A:175:ALA:HA	1:A:179:ILE:CG2	2.48	0.44
1:A:288:THR:O	1:A:310:ARG:N	2.50	0.44
3:C:41:LEU:O	3:C:454:ASN:ND2	2.50	0.44
3:C:129:ALA:CB	3:C:440:VAL:HG11	2.46	0.44
3:C:275:ILE:HD12	3:C:275:ILE:HG23	1.73	0.44
4:D:227:LEU:HD22	4:D:335:PHE:HE2	1.82	0.44
4:D:427:ALA:O	4:D:431:GLU:HG3	2.18	0.44
5:E:138:GLU:O	5:E:141:ALA:HB3	2.17	0.44
5:E:421:GLY:H	5:E:501:MET:HG2	1.80	0.44
8:H:70:ALA:HB3	8:H:390:ARG:HH22	1.82	0.44
8:H:200:ASP:OD1	8:H:203:ARG:HD3	2.17	0.44
1:I:192:VAL:HB	1:I:396:LEU:HD22	1.99	0.44
1:I:440:GLU:HA	1:I:443:ARG:HE	1.81	0.44
3:K:64:ASN:HB3	3:K:68:ARG:NH1	2.31	0.44
3:K:230:ARG:HD2	3:K:233:ILE:HB	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:296:ILE:O	3:K:313:ARG:NH1	2.50	0.44
4:L:189:ASN:O	4:L:193:LYS:N	2.48	0.44
4:L:300:ILE:HD11	4:L:325:ILE:O	2.17	0.44
5:M:148:LEU:HA	5:M:151:ILE:HG12	2.00	0.44
5:M:158:ASP:OD1	5:M:159:ILE:N	2.49	0.44
5:M:234:PHE:CE1	5:M:299:LEU:HD13	2.50	0.44
6:N:101:GLU:O	6:N:105:GLN:HG2	2.17	0.44
6:N:109:TYR:O	6:N:112:GLU:HB2	2.16	0.44
7:O:107:GLN:HG2	7:O:440:LYS:HD3	1.99	0.44
7:O:120:ILE:O	7:O:123:ARG:N	2.27	0.44
7:O:468:HIS:HE1	7:O:473:THR:O	2.00	0.44
8:P:71:THR:HG21	8:P:390:ARG:HD3	1.98	0.44
8:P:280:VAL:HG12	8:P:283:ILE:HD12	2.00	0.44
8:P:327:THR:HG23	8:P:328:VAL:HG13	2.00	0.44
9:1:67:MET:SD	9:1:69:ILE:HB	2.57	0.44
10:2:105:THR:O	10:2:109:GLN:N	2.43	0.44
12:4:78:HIS:ND1	12:4:82:GLU:HB3	2.32	0.44
13:5:50:LEU:CD1	13:5:53:LEU:HD23	2.47	0.44
13:5:80:GLU:HA	13:5:96:ALA:HB2	1.99	0.44
1:A:190:TYR:CB	1:A:403:LEU:HD13	2.47	0.44
1:A:237:LEU:HB2	1:A:288:THR:HA	2.00	0.44
1:A:244:THR:HG23	1:A:274:ARG:NH1	2.33	0.44
1:A:431:GLY:HA2	7:O:462:ASN:HB3	1.99	0.44
2:B:78:ASN:HB3	2:B:81:ALA:HB3	1.98	0.44
2:B:179:PHE:HB3	2:B:390:LEU:HD13	1.99	0.44
2:B:292:ASN:HD22	2:B:296:ILE:HG13	1.83	0.44
2:B:447:PRO:HB2	2:B:462:VAL:HG22	1.99	0.44
2:B:510:ALA:HA	2:B:513:VAL:HB	1.99	0.44
3:C:20:ARG:HA	3:C:23:GLN:HB2	1.99	0.44
3:C:101:LEU:O	3:C:104:GLU:HB3	2.17	0.44
3:C:118:HIS:CE1	3:C:122:VAL:H	2.35	0.44
3:C:268:LEU:HG	9:1:100:TYR:OH	2.18	0.44
5:E:129:HIS:HE1	7:G:454:GLY:HA2	1.83	0.44
5:E:437:ALA:CB	5:E:449:ARG:HG3	2.46	0.44
6:F:122:GLY:HA2	6:F:433:ALA:HA	1.98	0.44
6:F:146:GLU:HA	6:F:149:ILE:HD12	2.00	0.44
6:F:154:THR:HA	6:F:157:ARG:HB2	2.00	0.44
6:F:198:HIS:CE1	6:F:200:SER:HB2	2.53	0.44
7:G:103:GLU:CG	7:G:441:ALA:HA	2.45	0.44
7:G:282:HIS:CE1	7:G:303:PHE:CD1	3.06	0.44
7:G:292:LYS:HA	7:G:314:VAL:HG22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:234:ILE:HB	1:I:287:LEU:HG	1.98	0.44
2:J:38:LEU:HA	4:L:533:ASP:OD2	2.16	0.44
2:J:411:GLY:O	2:J:415:MET:HG2	2.17	0.44
3:K:134:ILE:O	3:K:138:LYS:HD3	2.18	0.44
4:L:147:ILE:HD13	4:L:435:ARG:HB2	1.98	0.44
4:L:155:VAL:HB	4:L:162:THR:HG21	1.99	0.44
4:L:168:THR:HG22	4:L:172:ASN:ND2	2.33	0.44
5:M:131:ILE:HG21	7:O:43:ARG:HB3	1.99	0.44
5:M:332:LEU:O	5:M:336:ALA:N	2.43	0.44
5:M:339:GLY:HA2	5:M:355:PHE:CD2	2.52	0.44
6:N:28:ARG:HH12	6:N:107:ASP:HB2	1.83	0.44
6:N:240:GLU:HB2	6:N:266:PHE:CD1	2.51	0.44
6:N:266:PHE:O	6:N:270:ARG:N	2.47	0.44
6:N:408:VAL:HG13	6:N:414:VAL:HG11	1.99	0.44
7:O:39:THR:HG21	7:O:47:LYS:HD3	1.99	0.44
7:O:47:LYS:CE	7:O:65:ILE:HG12	2.47	0.44
7:O:508:GLU:O	7:O:512:LEU:HG	2.17	0.44
9:1:64:VAL:HG21	13:5:48:ASP:O	2.17	0.44
11:3:60:TYR:HD1	11:3:166:ARG:NH1	2.15	0.44
1:A:69:HIS:O	1:A:73:LYS:N	2.50	0.44
1:A:80:ASP:HA	1:A:83:ASP:HB3	2.00	0.44
1:A:190:TYR:CE1	1:A:192:VAL:HG22	2.52	0.44
1:A:238:ASP:HB2	1:A:329:SER:O	2.18	0.44
1:A:272:LYS:HB2	1:A:299:TYR:CE1	2.53	0.44
2:B:79:PRO:O	2:B:83:VAL:HG23	2.18	0.44
2:B:178:HIS:HE1	2:B:212:SER:O	2.00	0.44
3:C:489:ASP:O	3:C:492:GLU:HG2	2.18	0.44
5:E:40:ALA:O	5:E:44:VAL:HG22	2.17	0.44
5:E:530:ILE:H	7:G:46:ASP:HB2	1.83	0.44
6:F:60:GLY:O	6:F:64:LEU:HG	2.18	0.44
6:F:198:HIS:ND1	6:F:377:LYS:HD3	2.32	0.44
7:G:50:VAL:HA	7:G:55:LYS:O	2.17	0.44
7:G:64:THR:O	7:G:68:LEU:HG	2.18	0.44
7:G:174:PHE:HE2	7:G:208:SER:HB2	1.83	0.44
8:H:49:PRO:HB3	8:H:173:TYR:CD1	2.53	0.44
8:H:409:VAL:CG2	8:H:504:LYS:HG3	2.43	0.44
1:I:21:ASN:HB2	4:L:57:MET:SD	2.57	0.44
1:I:144:GLY:HA3	1:I:500:GLN:HE21	1.82	0.44
1:I:179:ILE:HG12	1:I:195:VAL:HG22	1.98	0.44
1:I:477:ASN:HB2	1:I:479:GLU:HG3	1.99	0.44
3:K:34:ALA:CB	3:K:100:ILE:HA	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:203:LYS:HB3	3:K:384:LEU:CD2	2.45	0.44
4:L:423:ALA:HB2	4:L:504:LEU:HA	2.00	0.44
5:M:166:ILE:O	5:M:170:LYS:HG3	2.18	0.44
5:M:251:LEU:HB3	5:M:253:CYS:SG	2.58	0.44
5:M:301:ILE:HD12	5:M:330:ILE:HD12	1.98	0.44
5:M:471:ILE:O	5:M:475:THR:HG23	2.16	0.44
6:N:440:PHE:CE2	6:N:444:LEU:HD21	2.51	0.44
7:O:460:ILE:HG23	7:O:484:ILE:HG23	2.00	0.44
8:P:237:ALA:HB3	8:P:347:CYS:HB2	2.00	0.44
11:3:145:GLU:O	11:3:148:LEU:HB3	2.17	0.44
12:4:21:GLN:HE21	12:4:25:LYS:NZ	2.14	0.44
13:5:84:ILE:HD13	13:5:103:PHE:CE1	2.53	0.44
2:B:218:PHE:HB3	2:B:362:PHE:HB2	2.00	0.44
2:B:419:HIS:CE1	2:B:469:HIS:HB2	2.53	0.44
2:B:446:LEU:HB3	2:B:447:PRO:HD3	1.99	0.44
3:C:136:THR:HB	3:C:418:VAL:HG22	1.99	0.44
4:D:284:LEU:HD11	14:6:78:LYS:HZ3	1.82	0.44
4:D:312:LEU:H	4:D:312:LEU:HD12	1.83	0.44
5:E:77:ILE:HA	5:E:80:MET:HB2	1.99	0.44
5:E:397:GLU:HA	5:E:400:ARG:HB3	1.98	0.44
7:G:158:CYS:CB	7:G:396:VAL:HG12	2.47	0.44
7:G:217:LYS:HA	7:G:358:TYR:CE1	2.53	0.44
7:G:459:ASN:HD22	1:I:112:ILE:HD11	1.83	0.44
8:H:55:MET:SD	8:H:65:VAL:HB	2.58	0.44
8:H:239:ILE:HG22	8:H:241:VAL:HG23	1.98	0.44
1:I:422:TYR:CE1	1:I:476:VAL:HG12	2.53	0.44
2:J:266:GLU:CD	4:L:262:ASN:HB2	2.38	0.44
3:K:362:PHE:CZ	3:K:375:LEU:HD13	2.53	0.44
3:K:376:LEU:HD13	3:K:387:VAL:HB	1.98	0.44
3:K:395:MET:O	3:K:399:ARG:HG2	2.18	0.44
4:L:97:ALA:HB1	4:L:521:LEU:HD13	1.98	0.44
5:M:247:LYS:HB3	5:M:297:ALA:HA	1.99	0.44
6:N:271:VAL:HG23	6:N:305:LEU:CD2	2.47	0.44
6:N:425:HIS:O	6:N:428:SER:HB3	2.17	0.44
7:O:121:ILE:HG12	7:O:434:LEU:HD21	1.99	0.44
7:O:126:ARG:CZ	7:O:508:GLU:HG2	2.48	0.44
7:O:156:GLU:HG3	7:O:176:ALA:CB	2.47	0.44
10:2:48:GLU:HG3	10:2:52:ASN:HD21	1.82	0.44
13:5:120:ALA:O	13:5:124:LYS:HG2	2.17	0.44
14:6:13:VAL:HB	14:6:16:TYR:CD2	2.52	0.44
14:6:47:LEU:HD12	14:6:76:VAL:HG21	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:250:LYS:HB3	2:B:335:PHE:CD2	2.53	0.44
2:B:421:VAL:HG21	2:B:439:TYR:CE2	2.45	0.44
2:B:442:ALA:HA	2:B:445:MET:HB2	2.00	0.44
3:C:163:LYS:HZ3	3:C:389:ARG:C	2.22	0.44
3:C:431:GLY:O	3:C:434:GLN:HG2	2.18	0.44
4:D:287:VAL:HA	4:D:290:ILE:HD12	1.99	0.44
5:E:478:ARG:NH1	4:L:441:ARG:O	2.46	0.44
7:G:249:GLU:HG3	7:G:270:GLU:HA	2.00	0.44
8:H:31:ARG:NE	8:H:80:HIS:HE1	2.16	0.44
8:H:235:LYS:HD3	8:H:351:TYR:CE1	2.53	0.44
8:H:291:VAL:HG13	8:H:312:LEU:HD23	1.99	0.44
1:I:48:ASP:H	1:I:51:ASP:HB2	1.83	0.44
1:I:227:LYS:HB2	1:I:308:VAL:HG22	1.99	0.44
1:I:378:ARG:HA	1:I:378:ARG:HD3	1.82	0.44
2:J:33:ILE:HG23	2:J:111:ARG:NH2	2.32	0.44
2:J:314:HIS:CG	2:J:314:HIS:O	2.71	0.44
2:J:321:GLU:HA	2:J:331:ILE:HG21	2.00	0.44
2:J:399:GLN:HE21	2:J:496:SER:HB3	1.82	0.44
3:K:156:ILE:HD12	3:K:398:CYS:SG	2.58	0.44
3:K:245:LEU:HD21	3:K:249:LYS:HE3	1.99	0.44
4:L:61:ILE:N	4:L:69:THR:O	2.24	0.44
4:L:236:SER:C	4:L:238:ILE:H	2.21	0.44
4:L:266:VAL:HG13	4:L:268:ASP:O	2.18	0.44
5:M:179:ASN:O	5:M:182:HIS:HB2	2.18	0.44
5:M:263:LYS:HE3	7:O:270:GLU:OE2	2.17	0.44
5:M:464:GLU:HG3	5:M:470:PRO:CG	2.45	0.44
5:M:464:GLU:N	5:M:470:PRO:HG3	2.32	0.44
6:N:198:HIS:CD2	6:N:200:SER:H	2.35	0.44
7:O:292:LYS:O	7:O:313:ARG:HA	2.18	0.44
8:P:297:VAL:CB	8:P:314:ARG:HD2	2.43	0.44
9:1:20:VAL:HA	9:1:105:VAL:HG23	2.00	0.44
3:C:239:VAL:CG2	3:C:287:PRO:HB3	2.48	0.44
3:C:264:PHE:O	3:C:268:LEU:HB3	2.18	0.44
4:D:260:MET:HG2	4:D:261:ASP:H	1.82	0.44
4:D:289:GLN:HB3	4:D:348:ILE:HD13	1.99	0.44
4:D:528:SER:O	4:D:532:ILE:HG13	2.18	0.44
5:E:215:VAL:HG12	5:E:216:GLY:N	2.33	0.44
5:E:257:PRO:CG	7:G:260:VAL:HB	2.48	0.44
5:E:478:ARG:NH2	4:L:448:SER:OG	2.51	0.44
6:F:501:LYS:HA	6:F:504:LEU:CD2	2.48	0.44
7:G:163:LEU:HD11	7:G:389:LEU:HD21	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:175:PHE:HZ	7:G:205:LEU:HD22	1.83	0.44
7:G:205:LEU:HD23	7:G:375:ARG:O	2.18	0.44
8:H:207:ILE:HG21	8:H:356:GLY:HA3	2.00	0.44
2:J:53:LEU:HD22	4:L:86:PRO:HB3	1.98	0.44
5:M:41:ALA:HA	5:M:87:ILE:HG21	1.99	0.44
6:N:69:ILE:HG22	6:N:71:HIS:CE1	2.53	0.44
6:N:134:LEU:HB2	6:N:502:LYS:NZ	2.33	0.44
7:O:36:VAL:HG22	7:O:65:ILE:HD11	2.00	0.44
8:P:442:ALA:HA	8:P:445:PHE:CE2	2.53	0.44
14:6:22:ASP:C	14:6:97:LEU:HD13	2.38	0.44
14:6:43:VAL:O	14:6:47:LEU:N	2.42	0.44
1:A:93:VAL:HG21	1:A:516:PHE:HB2	2.00	0.43
1:A:236:CYS:CB	1:A:329:SER:HB2	2.48	0.43
2:B:47:GLY:HA2	2:B:453:ASN:HB3	2.00	0.43
2:B:91:GLN:NE2	2:B:502:GLN:O	2.50	0.43
2:B:147:ASP:OD1	2:B:405:ARG:HG2	2.18	0.43
2:B:221:ASP:HA	2:B:359:LEU:HD22	1.99	0.43
2:B:431:LYS:N	2:J:460:ASP:OD1	2.51	0.43
2:B:465:LEU:HD13	2:B:477:GLY:HA2	1.99	0.43
3:C:52:ASP:HB2	3:C:56:GLY:H	1.82	0.43
4:D:214:LEU:O	4:D:398:ILE:HD11	2.18	0.43
4:D:300:ILE:O	4:D:328:ILE:HG22	2.17	0.43
4:D:329:GLU:HG3	4:D:331:GLU:N	2.24	0.43
4:D:352:THR:O	4:D:356:LEU:HG	2.18	0.43
4:D:437:THR:HG22	4:D:452:ARG:CA	2.46	0.43
5:E:394:ILE:HA	5:E:397:GLU:HB3	2.00	0.43
5:E:426:GLU:HB3	5:E:455:LEU:O	2.18	0.43
5:E:427:ILE:HG21	5:E:477:VAL:HG22	2.00	0.43
6:F:104:LYS:O	6:F:108:LEU:N	2.38	0.43
6:F:379:PRO:HD2	6:F:384:LEU:HB2	2.00	0.43
6:F:456:GLY:HA3	6:F:483:THR:O	2.18	0.43
7:G:202:GLY:HA3	7:G:354:GLY:HA3	2.00	0.43
8:H:41:GLN:HA	8:H:44:ARG:CZ	2.47	0.43
8:H:323:ARG:O	8:H:327:THR:N	2.37	0.43
8:H:440:LYS:HD3	8:H:443:GLU:OE1	2.18	0.43
1:I:286:ILE:HD11	1:I:307:ALA:HA	2.00	0.43
2:J:89:ARG:O	2:J:93:ASP:N	2.43	0.43
2:J:268:GLU:OE1	4:L:306:ARG:HA	2.17	0.43
2:J:436:MET:O	2:J:439:TYR:HB3	2.18	0.43
3:K:160:ILE:HG23	3:K:390:ASN:ND2	2.33	0.43
3:K:175:ILE:HG22	3:K:374:ILE:HD13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:354:LYS:HD2	3:K:359:TYR:CE1	2.53	0.43
3:K:410:GLY:CA	3:K:490:MET:HG3	2.47	0.43
4:L:257:LYS:HB2	4:L:262:ASN:OD1	2.17	0.43
5:M:48:MET:HB3	5:M:107:THR:HG23	2.00	0.43
6:N:129:LYS:O	6:N:132:GLN:HB3	2.18	0.43
7:O:473:THR:HG23	7:O:474:TRP:N	2.33	0.43
8:P:35:ALA:HB1	8:P:83:ALA:HB2	2.00	0.43
8:P:247:ASP:HA	8:P:298:ALA:HB2	1.99	0.43
8:P:351:TYR:HD1	8:P:353:SER:HG	1.64	0.43
12:4:83:THR:HG21	14:6:63:VAL:HG21	2.00	0.43
13:5:88:THR:HG23	14:6:36:GLN:CD	2.38	0.43
1:A:309:ARG:NH1	3:C:334:ARG:HH12	2.16	0.43
1:A:466:LYS:O	1:A:470:PHE:N	2.51	0.43
2:B:252:PHE:HD2	2:B:277:GLU:HG3	1.83	0.43
3:C:229:MET:CE	3:C:361:THR:HG21	2.48	0.43
5:E:172:THR:HG21	5:E:405:ALA:HB2	2.01	0.43
5:E:268:VAL:HB	5:E:273:ASP:HB3	1.99	0.43
5:E:297:ALA:HB1	5:E:299:LEU:H	1.83	0.43
6:F:115:HIS:O	6:F:118:ILE:HG22	2.18	0.43
6:F:331:VAL:HB	6:F:333:LEU:H	1.84	0.43
6:F:456:GLY:HA3	6:F:484:GLY:HA3	2.00	0.43
7:G:209:GLN:HB2	7:G:375:ARG:HH12	1.84	0.43
7:G:232:TYR:N	7:G:348:PHE:O	2.31	0.43
7:G:318:ASP:OD1	7:G:321:ARG:NH1	2.50	0.43
7:G:374:LEU:HD11	7:G:385:THR:CG2	2.49	0.43
1:I:18:ARG:HD3	4:L:57:MET:HB2	2.00	0.43
1:I:36:LEU:HG	1:I:452:LEU:HD23	2.00	0.43
1:I:103:ASN:CG	1:I:440:GLU:HB3	2.37	0.43
2:J:458:SER:O	2:J:461:LEU:HB3	2.17	0.43
3:K:113:LEU:HD11	3:K:436:PRO:HA	1.99	0.43
3:K:215:LEU:HD22	3:K:362:PHE:HD1	1.83	0.43
3:K:419:ALA:O	3:K:422:LEU:HB2	2.18	0.43
4:L:233:VAL:HG21	4:L:323:MET:HB3	2.01	0.43
4:L:276:LEU:HD22	4:L:312:LEU:HD11	1.99	0.43
6:N:141:ARG:HH12	6:N:409:PRO:HD3	1.83	0.43
6:N:149:ILE:HA	6:N:152:ALA:HB3	2.00	0.43
6:N:250:TYR:HE2	6:N:259:LEU:HD13	1.84	0.43
6:N:393:ASP:HA	6:N:396:ARG:NH1	2.33	0.43
7:O:94:THR:OG1	7:O:95:THR:N	2.51	0.43
7:O:198:LYS:HG2	7:O:371:THR:HG23	2.00	0.43
8:P:203:ARG:HH21	8:P:326:LYS:HB3	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:1:81:LEU:O	9:1:84:GLN:HB3	2.18	0.43
11:3:146:LYS:O	11:3:150:THR:HG22	2.18	0.43
12:4:56:ASP:O	14:6:58:LYS:NZ	2.42	0.43
1:A:13:THR:O	1:A:16:THR:OG1	2.26	0.43
1:A:160:ILE:CD1	1:A:384:MET:HB2	2.47	0.43
1:A:199:LYS:HD2	1:A:385:CYS:HA	1.99	0.43
2:B:124:GLN:HG2	5:E:466:SER:HA	2.00	0.43
2:B:151:ASP:HB3	2:B:154:LYS:HD3	2.00	0.43
3:C:179:ALA:O	3:C:183:VAL:HG22	2.17	0.43
3:C:232:TYR:HB3	3:C:234:LYS:NZ	2.33	0.43
4:D:231:GLN:HB3	4:D:372:LYS:HZ1	1.84	0.43
4:D:243:LYS:HA	4:D:359:ALA:O	2.18	0.43
5:E:158:ASP:O	5:E:162:THR:HG23	2.18	0.43
5:E:225:ILE:O	5:E:384:THR:N	2.51	0.43
5:E:265:LYS:H	7:G:257:VAL:HG21	1.82	0.43
5:E:405:ALA:O	5:E:408:VAL:HG22	2.17	0.43
8:H:48:GLY:HA3	8:H:452:LEU:CD1	2.44	0.43
8:H:232:THR:CG2	8:H:290:VAL:HB	2.49	0.43
2:J:319:GLY:O	2:J:322:ARG:HB3	2.18	0.43
2:J:322:ARG:HE	2:J:372:THR:H	1.65	0.43
2:J:435:ALA:HA	2:J:438:SER:HB2	1.99	0.43
3:K:156:ILE:HG23	3:K:173:CYS:SG	2.58	0.43
3:K:400:ASN:HA	3:K:403:LEU:HB3	1.99	0.43
4:L:55:LYS:NZ	4:L:466:ALA:HA	2.33	0.43
4:L:128:ILE:HG21	4:L:450:CYS:SG	2.59	0.43
4:L:330:ARG:O	4:L:333:ILE:HB	2.17	0.43
5:M:253:CYS:HB3	7:O:271:TRP:CH2	2.53	0.43
5:M:289:ILE:HG21	5:M:314:LEU:HA	2.00	0.43
5:M:448:MET:O	5:M:451:PHE:HB3	2.18	0.43
5:M:517:ILE:O	5:M:520:ALA:N	2.51	0.43
6:N:409:PRO:HA	6:N:495:TRP:HD1	1.83	0.43
7:O:21:GLN:HG3	7:O:25:ASN:ND2	2.33	0.43
8:P:190:ILE:HB	8:P:373:SER:HB2	1.98	0.43
8:P:191:PHE:CE2	8:P:197:PHE:HA	2.50	0.43
11:3:127:LEU:HD21	11:3:143:LEU:HD21	1.99	0.43
14:6:24:SER:HA	14:6:27:MET:HB3	1.99	0.43
1:A:61:ILE:O	1:A:65:LEU:N	2.47	0.43
1:A:207:GLU:HB3	1:A:378:ARG:HH11	1.83	0.43
3:C:38:ARG:NH1	3:C:449:ARG:HB2	2.34	0.43
3:C:349:LEU:N	3:C:364:THR:O	2.52	0.43
3:C:447:ILE:HB	3:C:448:PRO:HD3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:507:LYS:HE3	3:C:507:LYS:HB3	1.80	0.43
4:D:194:VAL:HG13	4:D:386:VAL:HG23	1.99	0.43
4:D:231:GLN:H	4:D:373:LEU:HD23	1.82	0.43
4:D:232:LYS:HE3	4:D:364:GLU:OE1	2.19	0.43
4:D:480:LEU:HA	4:D:483:ARG:HB2	1.99	0.43
5:E:148:LEU:HD12	5:E:151:ILE:HD12	2.00	0.43
5:E:187:GLU:HA	5:E:190:VAL:HG22	2.01	0.43
5:E:437:ALA:HB1	5:E:445:GLN:O	2.19	0.43
6:F:130:ALA:O	6:F:134:LEU:HG	2.18	0.43
7:G:116:LEU:HG	7:G:121:ILE:HG22	2.00	0.43
7:G:468:HIS:HA	7:G:472:GLY:CA	2.43	0.43
7:G:468:HIS:HD2	7:G:472:GLY:HA2	1.81	0.43
7:G:478:ASP:HB2	7:G:483:ASP:OD1	2.19	0.43
1:I:257:PRO:CG	3:K:278:LEU:HD23	2.48	0.43
2:J:454:ALA:HB2	2:J:480:MET:O	2.18	0.43
3:K:362:PHE:CE1	3:K:375:LEU:HD13	2.53	0.43
4:L:139:LYS:NZ	4:L:447:GLU:HG2	2.32	0.43
4:L:186:MET:HB3	4:L:388:ILE:HD13	2.00	0.43
4:L:512:LEU:O	4:L:516:VAL:HG22	2.18	0.43
5:M:61:MET:HB3	5:M:80:MET:HG2	1.99	0.43
5:M:208:LEU:HD22	5:M:381:ARG:O	2.18	0.43
5:M:246:ALA:N	5:M:356:ALA:O	2.47	0.43
5:M:255:PHE:CZ	5:M:292:ILE:HD11	2.53	0.43
7:O:242:VAL:HG21	7:O:334:VAL:HG12	2.01	0.43
7:O:421:ARG:NH2	7:O:436:GLY:O	2.52	0.43
8:P:203:ARG:HH11	8:P:372:ILE:HB	1.81	0.43
8:P:221:MET:HB3	8:P:363:PHE:CD2	2.53	0.43
8:P:243:SER:H	8:P:332:ALA:HB1	1.82	0.43
8:P:246:PHE:CE2	8:P:283:ILE:HD11	2.53	0.43
11:3:105:PHE:HZ	11:3:117:VAL:HA	1.83	0.43
14:6:65:VAL:CG1	14:6:67:GLN:HE21	2.31	0.43
1:A:107:LEU:O	1:A:112:ILE:N	2.52	0.43
1:A:354:GLU:OE1	1:A:363:LEU:HD22	2.18	0.43
1:A:489:ASP:HB3	1:A:492:ASN:HB2	2.00	0.43
2:B:429:PRO:HB2	2:J:464:GLN:HA	2.00	0.43
2:B:467:ALA:O	2:B:471:GLU:HG2	2.18	0.43
3:C:227:PRO:HB3	3:C:352:ILE:HG21	2.00	0.43
3:C:381:LYS:O	3:C:384:LEU:HB3	2.17	0.43
4:D:197:PRO:HD2	4:D:200:ALA:HA	2.00	0.43
4:D:212:LYS:NZ	4:D:395:LYS:HG3	2.32	0.43
4:D:329:GLU:O	4:D:332:ASP:HB2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:384:LYS:CG	4:D:385:THR:H	2.27	0.43
5:E:236:HIS:HB3	5:E:238:GLN:HG2	2.01	0.43
5:E:256:GLU:HB2	5:E:314:LEU:HD13	2.00	0.43
5:E:265:LYS:H	7:G:257:VAL:CG2	2.31	0.43
5:E:445:GLN:CD	4:L:482:ASN:HD22	2.21	0.43
5:E:477:VAL:HG23	5:E:480:ARG:HD2	2.01	0.43
5:E:481:GLN:HA	5:E:484:GLU:O	2.18	0.43
6:F:195:GLU:OE1	6:F:195:GLU:N	2.52	0.43
6:F:252:SER:HA	14:6:112:GLN:OE1	2.18	0.43
6:F:453:GLN:HG3	6:F:458:ASP:HA	2.00	0.43
6:F:505:LEU:HA	6:F:508:CYS:HB3	2.00	0.43
7:G:178:MET:O	7:G:210:LEU:HD22	2.18	0.43
7:G:217:LYS:HA	7:G:358:TYR:CD1	2.54	0.43
7:G:237:ILE:HA	7:G:288:VAL:HB	2.00	0.43
7:G:258:HIS:CG	7:G:259:THR:N	2.86	0.43
7:G:489:GLU:OE1	7:G:489:GLU:N	2.38	0.43
1:I:118:ILE:CD1	1:I:525:LEU:HD11	2.47	0.43
1:I:414:ALA:HB2	1:I:467:LEU:HD22	2.01	0.43
3:K:198:TYR:O	3:K:372:CYS:HB3	2.17	0.43
4:L:48:ILE:HG23	4:L:78:LEU:HD21	2.00	0.43
4:L:84:LEU:CD2	4:L:89:ARG:HH21	2.31	0.43
4:L:148:LEU:HG	4:L:432:LEU:HD22	2.00	0.43
4:L:443:LEU:HB3	4:L:448:SER:HB2	1.99	0.43
5:M:48:MET:HA	5:M:51:SER:HB2	2.00	0.43
5:M:165:LEU:HD22	5:M:409:ILE:HA	1.99	0.43
5:M:512:GLY:HA2	5:M:515:GLN:HB3	2.01	0.43
7:O:148:LYS:HB3	7:O:149:VAL:H	1.59	0.43
7:O:152:ARG:HB2	7:O:180:VAL:CG1	2.48	0.43
7:O:240:LEU:HD12	7:O:289:VAL:HG13	2.00	0.43
7:O:464:LEU:HD21	7:O:484:ILE:HA	2.00	0.43
1:A:494:LYS:HB3	1:A:496:ARG:HH12	1.83	0.43
2:B:31:GLY:O	2:B:35:ILE:HG12	2.19	0.43
2:B:149:GLY:HA3	2:B:404:SER:HB3	1.99	0.43
2:B:380:GLN:HA	2:B:383:LEU:HB3	2.00	0.43
3:C:228:ARG:HG2	3:C:312:ILE:HG13	2.01	0.43
3:C:299:LEU:HA	3:C:302:HIS:ND1	2.33	0.43
4:D:149:THR:HA	4:D:152:SER:OG	2.18	0.43
4:D:209:LYS:HG2	4:D:211:VAL:HG23	1.99	0.43
4:D:279:GLU:OE2	4:D:312:LEU:HD22	2.18	0.43
4:D:303:SER:HA	4:D:306:ARG:HB3	2.00	0.43
4:D:451:VAL:HA	4:D:454:PHE:HB3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:197:ALA:HA	5:E:203:ASP:O	2.18	0.43
5:E:312:HIS:HA	5:E:315:LEU:HG	1.99	0.43
5:E:541:GLU:HA	7:G:51:ASP:O	2.19	0.43
6:F:46:MET:HG3	8:H:521:VAL:HG11	1.99	0.43
6:F:114:LEU:HD13	6:N:460:GLN:NE2	2.34	0.43
6:F:117:ARG:HA	6:F:517:LEU:HD21	2.00	0.43
8:H:88:MET:HA	8:H:91:HIS:ND1	2.33	0.43
8:H:367:LYS:O	8:H:371:ALA:HB2	2.19	0.43
1:I:322:ALA:HA	1:I:370:ARG:HG2	2.00	0.43
2:J:287:ILE:HG22	2:J:289:CYS:H	1.84	0.43
2:J:419:HIS:CD2	2:J:470:SER:HB3	2.54	0.43
2:J:519:ASN:H	5:M:59:LYS:HG3	1.83	0.43
2:J:521:ILE:HG21	5:M:80:MET:HG3	1.99	0.43
3:K:93:ASP:HB2	3:K:393:ASP:OD1	2.18	0.43
3:K:423:THR:HG22	3:K:427:LYS:NZ	2.33	0.43
4:L:98:GLN:HB2	4:L:109:VAL:HB	2.00	0.43
4:L:218:ILE:HA	4:L:221:CYS:SG	2.58	0.43
5:M:156:LEU:H	5:M:416:ASN:HB2	1.83	0.43
5:M:434:SER:O	5:M:449:ARG:HG2	2.19	0.43
6:N:30:LEU:CD2	6:N:69:ILE:HB	2.47	0.43
6:N:128:GLU:HA	6:N:131:LEU:HD12	2.01	0.43
6:N:339:LEU:HD21	6:N:343:CYS:HB2	1.99	0.43
7:O:122:ILE:HD13	7:O:515:SER:OG	2.18	0.43
7:O:145:LYS:HA	7:O:151:GLN:HE21	1.83	0.43
7:O:195:ILE:HG21	7:O:393:ILE:HD13	2.00	0.43
7:O:430:LYS:O	7:O:432:GLN:N	2.52	0.43
7:O:477:VAL:C	7:O:487:ASN:HD21	2.21	0.43
7:O:515:SER:O	8:P:54:LYS:NZ	2.34	0.43
8:P:201:ASN:HB2	8:P:202:ILE:HD12	2.00	0.43
8:P:415:THR:O	8:P:418:GLU:HB2	2.17	0.43
9:1:26:LYS:HB3	9:1:101:LEU:HD23	1.99	0.43
13:5:48:ASP:OD1	13:5:51:ASN:ND2	2.52	0.43
1:A:43:LYS:CB	3:C:521:ASP:HB2	2.46	0.43
2:B:137:ALA:HB1	2:B:417:MET:SD	2.59	0.43
2:B:200:HIS:CE1	2:B:202:ILE:HD11	2.53	0.43
3:C:195:ILE:HG13	3:C:196:LYS:N	2.34	0.43
3:C:228:ARG:HD2	3:C:312:ILE:HG23	2.01	0.43
3:C:292:THR:HG22	3:C:293:GLU:O	2.19	0.43
4:D:289:GLN:HA	4:D:292:LYS:HD3	2.01	0.43
5:E:63:ASP:OD2	5:E:67:ASP:HB2	2.19	0.43
6:F:168:LEU:O	6:F:172:VAL:HG23	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:233:CYS:O	6:F:294:GLN:N	2.42	0.43
6:F:289:PHE:CD2	6:F:310:ILE:HD13	2.53	0.43
7:G:64:THR:O	7:G:67:LYS:HB2	2.19	0.43
7:G:297:ASP:O	7:G:301:GLN:HG3	2.19	0.43
1:I:217:ASN:HB3	1:I:312:LEU:HD12	2.00	0.43
1:I:288:THR:O	1:I:310:ARG:N	2.51	0.43
2:J:167:LEU:O	2:J:176:LYS:NZ	2.51	0.43
2:J:420:ALA:O	2:J:424:LEU:HG	2.19	0.43
4:L:97:ALA:CB	4:L:521:LEU:HD13	2.48	0.43
5:M:235:SER:HB2	5:M:314:LEU:HD23	2.01	0.43
7:O:117:HIS:HA	7:O:121:ILE:HD12	2.01	0.43
7:O:246:LEU:O	7:O:274:LEU:HD22	2.18	0.43
7:O:421:ARG:NH2	7:O:440:LYS:HB2	2.34	0.43
7:O:474:TRP:HB3	7:O:486:ASP:OD1	2.18	0.43
8:P:56:VAL:HB	8:P:64:PHE:HB2	1.99	0.43
8:P:179:LEU:O	8:P:183:ILE:HG22	2.18	0.43
12:4:78:HIS:CE1	12:4:83:THR:OG1	2.72	0.43
1:A:324:GLY:HA3	1:A:346:GLY:HA2	2.01	0.43
2:B:91:GLN:HE21	2:B:503:VAL:HA	1.82	0.43
2:B:140:ALA:HB1	2:B:416:LEU:HD21	2.01	0.43
2:B:147:ASP:HA	2:B:405:ARG:HA	1.99	0.43
2:B:163:ALA:HB3	2:B:180:THR:HG23	2.00	0.43
2:B:271:GLU:O	2:B:275:MET:N	2.42	0.43
2:B:385:GLU:HG3	2:B:388:ARG:NH2	2.32	0.43
2:B:408:TYR:CD2	2:B:474:THR:HG22	2.53	0.43
4:D:40:ALA:HB3	4:D:85:HIS:CE1	2.54	0.43
4:D:152:SER:HB3	4:D:420:ALA:CB	2.48	0.43
4:D:286:LEU:HD12	4:D:348:ILE:HD11	2.01	0.43
4:D:340:ILE:HG22	4:D:381:SER:OG	2.19	0.43
4:D:434:LEU:HD23	4:D:435:ARG:HH12	1.84	0.43
5:E:246:ALA:O	5:E:359:VAL:N	2.52	0.43
7:G:99:LEU:HD11	7:G:448:GLN:NE2	2.34	0.43
7:G:425:ARG:HG2	1:I:421:ILE:HG13	1.99	0.43
8:H:317:SER:O	8:H:320:ASP:HB2	2.19	0.43
1:I:117:VAL:HG12	1:I:121:TYR:CE2	2.53	0.43
1:I:449:PRO:O	1:I:452:LEU:HB2	2.18	0.43
3:K:391:LEU:HA	3:K:394:ALA:HB3	1.99	0.43
4:L:348:ILE:HD12	4:L:348:ILE:HA	1.84	0.43
4:L:477:VAL:O	4:L:480:LEU:HB2	2.19	0.43
5:M:165:LEU:HD12	5:M:190:VAL:HG13	2.00	0.43
6:N:157:ARG:NH2	6:N:166:ASP:OD1	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:404:ASP:OD2	6:N:499:CYS:N	2.52	0.43
6:N:431:GLY:CA	6:N:434:GLN:HB3	2.46	0.43
7:O:131:LEU:HB3	7:O:419:TYR:CE2	2.52	0.43
8:P:135:ALA:HA	8:P:138:LYS:HB3	2.00	0.43
8:P:144:PRO:HA	8:P:147:VAL:HG23	2.00	0.43
8:P:405:ASP:OD2	8:P:502:LEU:HG	2.18	0.43
9:1:48:ASP:OD2	9:1:81:LEU:HG	2.19	0.43
9:1:50:GLU:HG3	10:2:72:ARG:NE	2.34	0.43
11:3:96:GLU:HG2	11:3:97:SER:N	2.34	0.43
12:4:31:SER:O	12:4:35:GLU:HG3	2.18	0.43
1:A:43:LYS:HZ2	3:C:520:ASP:HB2	1.84	0.43
1:A:120:GLY:HA2	1:A:123:LEU:HB2	2.00	0.43
1:A:169:ALA:O	1:A:172:VAL:N	2.52	0.43
1:A:236:CYS:HB2	1:A:329:SER:HB2	2.00	0.43
2:B:50:LYS:HD3	4:D:533:ASP:HB2	2.01	0.43
2:B:65:ASN:H	2:B:171:LEU:HD13	1.84	0.43
2:B:523:ALA:HB3	5:E:64:LYS:N	2.34	0.43
3:C:469:LYS:NZ	3:C:487:LEU:HB3	2.34	0.43
4:D:27:ARG:C	4:D:30:PRO:HD2	2.39	0.43
4:D:232:LYS:NZ	4:D:234:SER:HB2	2.34	0.43
4:D:234:SER:OG	4:D:324:VAL:O	2.34	0.43
4:D:235:ASN:HD21	4:D:314:LEU:C	2.22	0.43
5:E:255:PHE:HE2	5:E:314:LEU:HD21	1.83	0.43
5:E:364:PHE:CE1	5:E:388:ARG:HG2	2.48	0.43
5:E:460:MET:CG	5:E:470:PRO:HB2	2.48	0.43
6:F:302:LEU:O	6:F:306:SER:N	2.49	0.43
8:H:138:LYS:HG2	8:H:426:TYR:CD2	2.54	0.43
8:H:233:SER:HB2	8:H:289:ASN:CG	2.38	0.43
8:H:282:ALA:CB	8:H:338:PRO:HB3	2.48	0.43
8:H:284:ALA:HB2	8:H:310:ILE:HD11	2.01	0.43
8:H:433:LEU:HA	8:H:436:TYR:HD2	1.84	0.43
1:I:264:ARG:NE	3:K:333:SER:OG	2.52	0.43
1:I:463:LEU:HD12	1:I:466:LYS:HB3	2.00	0.43
2:J:162:ILE:HG23	2:J:495:GLU:HG3	2.00	0.43
3:K:146:ILE:O	3:K:181:LYS:HD3	2.18	0.43
3:K:393:ASP:HA	3:K:396:GLN:HB3	2.00	0.43
3:K:452:ILE:HA	3:K:455:CYS:SG	2.59	0.43
4:L:35:PHE:HE1	4:L:124:LEU:HD13	1.84	0.43
4:L:449:TYR:O	4:L:453:ALA:N	2.36	0.43
5:M:248:ILE:HG22	5:M:301:ILE:HG12	2.00	0.43
5:M:248:ILE:HB	5:M:354:GLY:HA3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:253:CYS:HB3	7:O:271:TRP:HH2	1.83	0.43
5:M:286:GLU:HG2	5:M:313:LEU:HD22	2.01	0.43
6:N:35:ARG:HA	6:N:97:LEU:HD11	2.01	0.43
6:N:168:LEU:HD21	6:N:391:VAL:HG22	2.01	0.43
6:N:483:THR:HG23	6:N:485:GLU:HG2	2.01	0.43
7:O:169:SER:O	7:O:172:LYS:HG2	2.19	0.43
7:O:178:MET:HB3	7:O:372:PHE:HE1	1.83	0.43
7:O:495:PRO:HD2	7:O:498:VAL:HG21	2.01	0.43
8:P:492:MET:HB3	8:P:497:ILE:HB	1.99	0.43
13:5:23:ASP:O	13:5:26:VAL:HB	2.19	0.43
14:6:42:ILE:O	14:6:45:GLU:HB2	2.19	0.43
1:A:182:THR:HG23	1:A:322:ALA:O	2.19	0.43
1:A:391:SER:O	1:A:394:ASP:HB3	2.19	0.43
2:B:91:GLN:HG3	2:B:102:VAL:HG11	2.01	0.43
2:B:497:PHE:O	2:B:501:ARG:HG2	2.19	0.43
3:C:271:GLU:HB3	3:C:299:LEU:HD11	2.00	0.43
3:C:319:ASP:O	3:C:323:ILE:HG13	2.18	0.43
4:D:467:GLU:HB2	4:D:473:PRO:HB3	2.01	0.43
5:E:61:MET:HB2	5:E:77:ILE:CD1	2.49	0.43
5:E:182:HIS:HD2	5:E:185:MET:SD	2.41	0.43
5:E:522:GLN:O	5:E:526:MET:HB2	2.19	0.43
6:F:104:LYS:O	6:F:108:LEU:HG	2.17	0.43
6:F:302:LEU:CD2	6:F:312:ALA:HB3	2.49	0.43
6:F:433:ALA:O	6:F:437:VAL:HG23	2.19	0.43
6:F:464:VAL:HG23	6:N:425:HIS:CE1	2.54	0.43
7:G:101:ALA:HA	7:G:104:PHE:CD2	2.54	0.43
7:G:130:GLN:HA	7:G:133:VAL:HG22	2.00	0.43
7:G:420:LEU:HD13	7:G:438:TYR:CE2	2.54	0.43
1:I:136:LEU:HD23	1:I:136:LEU:HA	1.91	0.43
1:I:463:LEU:O	1:I:467:LEU:N	2.50	0.43
2:J:188:LEU:O	2:J:191:LYS:HD3	2.19	0.43
2:J:326:VAL:HG11	2:J:368:GLY:HA3	2.01	0.43
3:K:141:SER:HA	3:K:408:VAL:HA	2.00	0.43
3:K:245:LEU:HG	3:K:278:LEU:HD13	2.00	0.43
4:L:246:ILE:HG12	4:L:336:ILE:HD12	1.99	0.43
5:M:255:PHE:HB2	5:M:306:PHE:HD1	1.84	0.43
7:O:144:LYS:NZ	7:O:400:ILE:HG12	2.34	0.43
7:O:289:VAL:HG11	7:O:303:PHE:CE1	2.53	0.43
9:1:62:GLU:OE1	9:1:76:ILE:HG23	2.19	0.43
10:2:53:GLU:O	10:2:57:VAL:HG23	2.18	0.43
11:3:67:LEU:HD22	11:3:163:ASP:OD1	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:46:VAL:N	3:C:523:VAL:O	2.48	0.42
1:A:216:LEU:HD21	1:A:287:LEU:HD21	2.01	0.42
1:A:439:ALA:O	1:A:443:ARG:HG2	2.19	0.42
2:B:41:SER:HA	4:D:27:ARG:HH12	1.84	0.42
2:B:134:THR:HA	2:B:439:TYR:OH	2.19	0.42
2:B:429:PRO:HG2	2:J:467:ALA:HB3	1.99	0.42
3:C:102:ALA:H	3:C:509:ALA:HB1	1.84	0.42
3:C:233:ILE:HG13	3:C:289:VAL:HG13	2.00	0.42
3:C:258:ILE:HB	3:C:264:PHE:CD1	2.53	0.42
3:C:324:ALA:O	3:C:328:GLY:HA2	2.19	0.42
4:D:52:LEU:HB3	4:D:468:ASN:ND2	2.34	0.42
4:D:71:THR:OG1	4:D:77:ILE:HG12	2.19	0.42
4:D:137:PHE:O	4:D:141:LEU:N	2.48	0.42
4:D:161:GLU:H	4:D:161:GLU:CD	2.22	0.42
4:D:415:LEU:HB2	4:D:511:PRO:HG3	2.01	0.42
4:D:480:LEU:CD1	4:D:500:ILE:HG12	2.49	0.42
5:E:40:ALA:C	5:E:44:VAL:HG22	2.40	0.42
5:E:96:LYS:NZ	5:E:100:ASP:OD2	2.51	0.42
5:E:148:LEU:HD21	5:E:513:LYS:HB2	2.01	0.42
5:E:202:ARG:O	5:E:414:ARG:HA	2.19	0.42
6:F:70:GLN:H	8:H:18:GLY:CA	2.28	0.42
6:F:154:THR:CA	6:F:157:ARG:HE	2.32	0.42
6:F:155:SER:OG	6:F:394:GLY:HA2	2.19	0.42
7:G:467:ARG:O	7:G:471:GLY:N	2.52	0.42
8:H:52:MET:O	8:H:54:LYS:NZ	2.50	0.42
8:H:66:THR:CG2	8:H:72:ILE:HG13	2.49	0.42
8:H:237:ALA:O	8:H:350:VAL:HG21	2.18	0.42
8:H:418:GLU:OE2	8:H:474:GLY:N	2.45	0.42
1:I:20:GLN:HE21	1:I:69:HIS:CD2	2.37	0.42
1:I:122:ARG:HH12	1:I:515:LYS:HB3	1.83	0.42
1:I:146:ASP:HB2	1:I:150:ASN:N	2.33	0.42
1:I:296:CYS:SG	3:K:339:ARG:NH1	2.92	0.42
2:J:52:LEU:HD11	2:J:74:ILE:HD11	2.00	0.42
2:J:322:ARG:HE	2:J:371:CYS:HA	1.84	0.42
3:K:155:ILE:HD13	3:K:407:LEU:HD21	2.01	0.42
3:K:516:LEU:HA	3:K:519:ILE:HG12	2.00	0.42
4:L:157:LEU:HD21	4:L:199:THR:HB	2.01	0.42
8:P:155:ARG:O	8:P:188:VAL:HG11	2.19	0.42
8:P:445:PHE:O	8:P:448:ILE:HG12	2.18	0.42
10:2:60:THR:OG1	11:3:127:LEU:HB3	2.19	0.42
1:A:160:ILE:HB	1:A:205:GLN:HG3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:401:ARG:O	1:A:405:SER:HB2	2.19	0.42
2:B:24:ALA:HA	2:B:27:THR:HB	2.02	0.42
2:B:330:GLU:HB2	2:B:342:LYS:HB2	2.01	0.42
2:B:432:GLU:HG2	2:B:433:ALA:N	2.35	0.42
3:C:302:HIS:HA	3:C:305:MET:HG2	2.01	0.42
4:D:188:VAL:HG22	4:D:412:ILE:HD11	2.01	0.42
4:D:331:GLU:HA	4:D:334:GLU:HB2	1.99	0.42
4:D:336:ILE:HG23	4:D:340:ILE:HD11	2.00	0.42
5:E:166:ILE:O	5:E:183:ARG:NH1	2.43	0.42
5:E:225:ILE:HB	5:E:384:THR:O	2.18	0.42
5:E:251:LEU:HD11	5:E:292:ILE:HG13	2.01	0.42
5:E:306:PHE:HB2	5:E:323:ARG:HE	1.83	0.42
5:E:426:GLU:HG2	5:E:459:PRO:HD3	2.00	0.42
6:F:99:ILE:O	6:F:103:LEU:HG	2.18	0.42
6:F:325:THR:HA	6:F:330:GLY:C	2.40	0.42
6:F:331:VAL:HG11	6:F:344:LEU:HD23	2.01	0.42
8:H:206:LYS:O	8:H:224:LYS:HD2	2.19	0.42
8:H:206:LYS:HZ1	8:H:386:ASP:HB3	1.83	0.42
8:H:468:TYR:HE2	3:K:435:TRP:HZ2	1.65	0.42
2:J:66:ASP:OD1	2:J:388:ARG:NE	2.52	0.42
3:K:38:ARG:CD	3:K:447:ILE:HD13	2.48	0.42
3:K:44:LYS:HA	6:N:117:ARG:HE	1.83	0.42
3:K:436:PRO:O	3:K:440:VAL:N	2.46	0.42
3:K:490:MET:O	3:K:495:ILE:N	2.51	0.42
4:L:63:ASP:N	4:L:67:ASP:O	2.52	0.42
4:L:211:VAL:HG12	4:L:230:THR:HB	2.00	0.42
5:M:50:THR:CB	5:M:59:LYS:HZ1	2.31	0.42
5:M:228:VAL:HG11	5:M:332:LEU:HG	2.01	0.42
6:N:293:ASN:O	6:N:315:ARG:N	2.46	0.42
7:O:175:PHE:CD2	7:O:389:LEU:HD21	2.54	0.42
7:O:467:ARG:NH2	7:O:485:ALA:O	2.52	0.42
8:P:137:ARG:O	8:P:141:GLU:HG3	2.19	0.42
8:P:189:SER:HB2	8:P:219:HIS:HE2	1.84	0.42
10:2:49:MET:HA	10:2:52:ASN:HB2	2.02	0.42
12:4:32:ARG:O	12:4:36:LEU:HG	2.19	0.42
12:4:62:ASP:N	12:4:62:ASP:OD1	2.52	0.42
1:A:44:MET:CG	3:C:519:ILE:HG21	2.48	0.42
1:A:117:VAL:HB	1:A:121:TYR:CZ	2.54	0.42
1:A:169:ALA:HA	1:A:172:VAL:HG22	2.01	0.42
1:A:275:ILE:HD13	1:A:337:GLU:OE1	2.19	0.42
2:B:96:GLY:O	2:B:170:LYS:NZ	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:105:LEU:HD23	2:B:507:ALA:HB3	2.01	0.42
2:B:273:GLU:O	2:B:277:GLU:HG2	2.19	0.42
2:B:465:LEU:HD12	2:B:465:LEU:HA	1.78	0.42
3:C:184:GLN:HG2	3:C:193:ILE:HB	2.00	0.42
3:C:218:VAL:HA	3:C:373:THR:CG2	2.50	0.42
3:C:302:HIS:O	3:C:306:ARG:N	2.52	0.42
4:D:182:LEU:C	4:D:185:PRO:HD2	2.39	0.42
4:D:243:LYS:NZ	4:D:358:SER:OG	2.31	0.42
5:E:305:GLY:HA3	5:E:324:TRP:CG	2.53	0.42
6:F:368:ASN:HB3	6:F:370:ARG:HB2	2.00	0.42
7:G:197:ILE:HA	7:G:372:PHE:O	2.19	0.42
7:G:198:LYS:NZ	7:G:371:THR:OG1	2.52	0.42
7:G:232:TYR:OH	7:G:309:PHE:N	2.35	0.42
7:G:236:LYS:HB2	7:G:287:LYS:H	1.84	0.42
7:G:418:LYS:HZ2	7:G:469:ALA:HA	1.85	0.42
8:H:70:ALA:HA	8:H:73:LEU:HB2	2.01	0.42
8:H:238:LYS:HB3	8:H:344:MET:HA	2.01	0.42
8:H:327:THR:HG21	8:H:372:ILE:HG21	2.02	0.42
1:I:86:VAL:HG23	1:I:512:LYS:HZ1	1.85	0.42
2:J:179:PHE:HD1	2:J:182:LEU:HD23	1.84	0.42
2:J:372:THR:O	2:J:373:ILE:HD13	2.19	0.42
2:J:397:LEU:O	2:J:401:VAL:HG23	2.19	0.42
3:K:144:VAL:HG21	3:K:155:ILE:HG21	2.00	0.42
4:L:33:ILE:HD12	4:L:34:ARG:N	2.35	0.42
4:L:45:ALA:HA	4:L:48:ILE:HD12	2.01	0.42
4:L:213:LYS:NZ	4:L:367:LEU:HB2	2.34	0.42
4:L:245:LYS:N	4:L:294:GLY:O	2.38	0.42
4:L:366:ASN:HB3	4:L:370:SER:N	2.34	0.42
4:L:528:SER:O	4:L:532:ILE:N	2.53	0.42
5:M:177:VAL:HG12	5:M:177:VAL:O	2.20	0.42
6:N:38:LEU:H	6:N:42:GLY:HA3	1.85	0.42
6:N:123:PHE:CE2	6:N:516:LEU:HD11	2.55	0.42
6:N:182:GLN:OE1	6:N:370:ARG:HG2	2.19	0.42
6:N:198:HIS:CD2	6:N:377:LYS:HD2	2.54	0.42
6:N:213:ASP:HB3	6:N:315:ARG:O	2.19	0.42
8:P:41:GLN:HB2	8:P:44:ARG:NH1	2.33	0.42
8:P:420:ALA:HB2	8:P:446:GLU:OE2	2.20	0.42
1:A:184:ILE:HB	1:A:194:SER:HB2	2.02	0.42
1:A:221:GLY:HA3	1:A:308:VAL:HA	2.00	0.42
1:A:228:ARG:HG2	1:A:229:ILE:N	2.34	0.42
1:A:489:ASP:OD2	1:A:492:ASN:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:296:ILE:HD12	2:B:313:GLU:HB3	2.01	0.42
2:B:397:LEU:O	2:B:401:VAL:HG23	2.20	0.42
2:B:414:GLU:HB3	2:B:443:LEU:O	2.19	0.42
2:B:521:ILE:HD12	5:E:77:ILE:HG13	2.01	0.42
3:C:33:ILE:HD11	3:C:77:ALA:HA	2.01	0.42
3:C:44:LYS:HA	6:F:117:ARG:NH2	2.33	0.42
3:C:47:MET:O	6:F:519:ASP:N	2.47	0.42
3:C:143:PRO:HA	3:C:405:PRO:O	2.19	0.42
3:C:150:ASP:O	3:C:154:ASN:N	2.26	0.42
3:C:489:ASP:HB3	3:C:492:GLU:CD	2.39	0.42
4:D:135:GLU:CA	4:D:527:ARG:HH12	2.33	0.42
5:E:97:SER:HA	5:E:100:ASP:HB2	2.01	0.42
6:F:230:ILE:HA	6:F:290:VAL:O	2.19	0.42
6:F:446:ILE:O	6:F:450:VAL:HG12	2.19	0.42
6:F:459:LEU:HD12	6:F:460:GLN:HB2	2.01	0.42
7:G:21:GLN:OE1	7:G:25:ASN:ND2	2.53	0.42
7:G:450:CYS:O	7:G:455:PHE:N	2.28	0.42
8:H:45:THR:HB	8:H:52:MET:HG2	2.01	0.42
8:H:125:VAL:HG13	8:H:126:SER:N	2.34	0.42
2:J:19:GLU:HB3	2:J:520:ILE:HB	2.01	0.42
2:J:116:LEU:HD22	2:J:434:VAL:CG1	2.49	0.42
2:J:165:THR:OG1	2:J:494:THR:O	2.37	0.42
2:J:246:THR:HG23	2:J:247:ASP:N	2.35	0.42
3:K:283:ILE:CD1	3:K:303:TYR:HB3	2.49	0.42
3:K:414:SER:HA	3:K:476:GLU:HB3	2.02	0.42
3:K:469:LYS:HG3	3:K:478:TRP:CD1	2.54	0.42
3:K:516:LEU:HD23	3:K:519:ILE:HD11	2.00	0.42
4:L:154:PRO:HA	4:L:420:ALA:HB2	2.00	0.42
5:M:58:ASP:HA	5:M:72:ASN:HB3	2.01	0.42
6:N:64:LEU:HD13	6:N:81:ALA:HB2	2.01	0.42
6:N:197:LYS:HA	6:N:378:GLY:O	2.20	0.42
7:O:196:GLY:HA3	7:O:321:ARG:NH2	2.33	0.42
7:O:522:ASN:CB	8:P:58:ASN:HA	2.47	0.42
8:P:111:LEU:HG	8:P:132:TYR:CD1	2.55	0.42
8:P:351:TYR:CE1	8:P:362:VAL:HG13	2.54	0.42
11:3:56:GLN:O	12:4:19:ASP:HB2	2.18	0.42
11:3:176:MET:HB3	11:3:176:MET:HE2	1.84	0.42
12:4:57:ILE:HB	12:4:80:GLN:HE22	1.85	0.42
13:5:123:GLU:O	13:5:127:MET:N	2.50	0.42
1:A:367:THR:H	1:A:371:THR:HA	1.85	0.42
1:A:393:HIS:NE2	1:A:396:LEU:HD22	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:232:TYR:CE1	3:C:353:LYS:HG2	2.55	0.42
3:C:460:ILE:HA	3:C:463:LEU:HD12	2.02	0.42
5:E:31:LEU:O	5:E:35:LYS:N	2.23	0.42
5:E:170:LYS:HD3	5:E:183:ARG:NH2	2.34	0.42
5:E:389:GLY:HA3	5:E:395:ILE:HB	2.02	0.42
5:E:418:VAL:HB	5:E:507:ILE:HG12	2.02	0.42
5:E:432:ALA:HA	5:E:435:GLN:HB2	2.00	0.42
6:F:44:MET:HG3	6:F:58:LYS:HE3	2.00	0.42
6:F:210:LEU:HD23	6:F:320:ASN:HD22	1.85	0.42
6:F:271:VAL:HG22	6:F:301:SER:HA	2.01	0.42
6:F:408:VAL:N	6:F:496:ASP:O	2.36	0.42
7:G:33:ALA:HA	7:G:98:THR:HG22	2.01	0.42
7:G:77:LYS:O	7:G:80:VAL:HB	2.20	0.42
7:G:116:LEU:HA	7:G:430:LYS:HD3	2.01	0.42
7:G:167:LEU:O	7:G:168:ILE:HG12	2.18	0.42
8:H:29:VAL:HG13	8:H:119:LEU:HD23	2.01	0.42
8:H:409:VAL:O	8:H:499:ASP:N	2.44	0.42
8:H:497:ILE:C	8:H:498:LEU:HD12	2.39	0.42
1:I:42:ASP:HA	1:I:56:ASN:HB3	2.00	0.42
1:I:167:PHE:CD2	1:I:207:GLU:HA	2.54	0.42
1:I:179:ILE:HG23	1:I:181:TYR:CD2	2.54	0.42
2:J:135:LYS:CA	2:J:138:ARG:HH21	2.32	0.42
2:J:179:PHE:CD1	2:J:182:LEU:HD23	2.54	0.42
2:J:415:MET:SD	2:J:466:ARG:HB2	2.59	0.42
2:J:437:GLU:O	2:J:441:LYS:HG3	2.19	0.42
2:J:450:ILE:O	2:J:453:ASN:HB2	2.19	0.42
3:K:93:ASP:CG	3:K:94:GLY:H	2.23	0.42
4:L:101:GLU:OE1	4:L:521:LEU:HD11	2.18	0.42
4:L:148:LEU:HD12	4:L:519:LEU:HD11	2.01	0.42
4:L:176:VAL:HB	4:L:179:TYR:HB2	2.01	0.42
5:M:38:ILE:HD11	5:M:118:GLU:HA	2.02	0.42
5:M:255:PHE:HB2	5:M:306:PHE:HA	2.01	0.42
5:M:440:CYS:HB3	5:M:442:THR:HG22	2.01	0.42
6:N:115:HIS:HB2	6:N:118:ILE:HG12	2.02	0.42
6:N:120:THR:HG23	6:N:513:THR:HG23	2.00	0.42
6:N:151:VAL:HG13	6:N:495:TRP:O	2.19	0.42
6:N:231:LEU:O	6:N:291:VAL:HA	2.20	0.42
6:N:446:ILE:HD12	6:N:449:LYS:HE2	2.01	0.42
7:O:147:ASP:OD2	7:O:154:LEU:HD13	2.19	0.42
7:O:208:SER:OG	7:O:374:LEU:HD13	2.20	0.42
7:O:278:LEU:HD21	7:O:299:ALA:HB1	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:395:ILE:O	7:O:399:ALA:N	2.46	0.42
8:P:250:ILE:H	8:P:254:LYS:HD2	1.84	0.42
14:6:89:ARG:HG3	14:6:90:TYR:H	1.81	0.42
1:A:43:LYS:O	1:A:54:ILE:HA	2.19	0.42
1:A:216:LEU:HD23	1:A:362:ILE:O	2.19	0.42
1:A:247:LYS:HZ3	3:C:274:TYR:HB2	1.83	0.42
1:A:473:GLU:C	7:O:425:ARG:HH22	2.23	0.42
2:B:141:LEU:O	2:B:145:ALA:N	2.50	0.42
2:B:322:ARG:O	2:B:326:VAL:HG22	2.19	0.42
3:C:118:HIS:NE2	3:C:121:VAL:HB	2.34	0.42
3:C:257:GLU:CA	3:C:267:ILE:HG21	2.46	0.42
3:C:490:MET:HB3	3:C:495:ILE:HB	2.01	0.42
4:D:137:PHE:HE1	4:D:450:CYS:HB3	1.84	0.42
4:D:244:ALA:HB1	4:D:297:VAL:HG23	2.01	0.42
4:D:249:ILE:HD11	4:D:298:LEU:HD13	2.01	0.42
4:D:310:SER:OG	4:D:312:LEU:HB2	2.20	0.42
4:D:471:LEU:CD2	4:D:499:GLY:HA2	2.48	0.42
5:E:430:ALA:CA	5:E:452:ALA:HB1	2.39	0.42
6:F:276:GLU:O	6:F:280:LYS:N	2.34	0.42
7:G:121:ILE:HG13	7:G:122:ILE:N	2.29	0.42
7:G:453:ALA:HB2	7:G:479:ILE:HA	2.01	0.42
8:H:85:MET:O	8:H:88:MET:N	2.39	0.42
8:H:215:SER:HG	8:H:378:ARG:H	1.66	0.42
8:H:233:SER:HB2	8:H:289:ASN:ND2	2.34	0.42
8:H:242:TYR:HB2	8:H:245:PRO:CG	2.50	0.42
8:H:316:ASN:HB3	8:H:321:LEU:HG	2.02	0.42
1:I:107:LEU:HB2	1:I:117:VAL:HG11	2.01	0.42
1:I:129:VAL:HG22	1:I:511:VAL:HA	2.02	0.42
1:I:161:ILE:HG12	1:I:388:MET:HA	2.02	0.42
1:I:533:LEU:O	4:L:64:GLY:N	2.53	0.42
2:J:215:ASP:OD1	2:J:361:HIS:HE1	2.01	0.42
2:J:467:ALA:O	2:J:471:GLU:N	2.53	0.42
6:N:41:LYS:HG2	6:N:481:LEU:O	2.20	0.42
6:N:135:GLU:H	6:N:502:LYS:HZ1	1.68	0.42
6:N:355:LEU:HD23	6:N:375:LEU:HD21	2.02	0.42
7:O:122:ILE:HG13	7:O:123:ARG:N	2.34	0.42
7:O:244:LEU:HD11	7:O:334:VAL:HG11	2.01	0.42
7:O:278:LEU:HD13	7:O:302:TYR:HB3	2.01	0.42
7:O:412:ILE:HD11	7:O:474:TRP:CD1	2.55	0.42
8:P:83:ALA:HA	8:P:86:ILE:HD13	2.02	0.42
8:P:242:TYR:HE2	8:P:283:ILE:HG12	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:3:72:ARG:HH21	12:4:35:GLU:HG3	1.84	0.42
11:3:176:MET:O	11:3:180:TYR:N	2.50	0.42
14:6:44:LYS:NZ	14:6:77:GLY:HA2	2.34	0.42
1:A:106:GLU:O	1:A:110:GLN:N	2.28	0.42
2:B:464:GLN:O	2:B:468:ALA:N	2.46	0.42
2:B:465:LEU:HD11	2:B:469:HIS:HE1	1.84	0.42
2:B:475:THR:C	2:B:488:MET:H	2.19	0.42
2:B:518:ASP:OD2	5:E:50:THR:HB	2.18	0.42
3:C:301:GLN:NE2	3:C:313:ARG:HB3	2.35	0.42
3:C:434:GLN:HA	3:C:437:TYR:CD2	2.55	0.42
3:C:465:SER:O	3:C:469:LYS:N	2.52	0.42
4:D:60:MET:HB3	4:D:68:VAL:HG23	2.02	0.42
4:D:217:THR:O	4:D:221:CYS:N	2.45	0.42
4:D:503:ILE:HB	4:D:508:VAL:HB	2.02	0.42
5:E:48:MET:O	5:E:52:LEU:N	2.52	0.42
5:E:177:VAL:HG13	5:E:178:VAL:N	2.32	0.42
5:E:502:LYS:HG3	5:E:503:GLN:N	2.33	0.42
6:F:12:GLU:OE1	6:F:12:GLU:N	2.53	0.42
6:F:229:TYR:O	6:F:290:VAL:N	2.30	0.42
6:F:233:CYS:O	6:F:293:ASN:HA	2.19	0.42
6:F:267:ILE:O	6:F:271:VAL:HG23	2.20	0.42
6:F:420:GLU:HA	6:F:424:LYS:HE3	2.02	0.42
7:G:22:LEU:HB2	7:G:517:ASP:HB3	2.01	0.42
8:H:140:HIS:HE1	8:H:509:LYS:HD3	1.84	0.42
8:H:148:CYS:SG	8:H:149:CYS:N	2.91	0.42
1:I:288:THR:HB	1:I:309:ARG:HA	2.02	0.42
2:J:145:ALA:HB1	2:J:497:PHE:HB2	2.01	0.42
2:J:322:ARG:HD2	2:J:372:THR:OG1	2.19	0.42
2:J:498:GLN:O	2:J:502:GLN:HG2	2.19	0.42
3:K:158:SER:OG	3:K:494:GLY:O	2.36	0.42
3:K:218:VAL:CG2	3:K:371:ALA:HB3	2.50	0.42
5:M:218:ARG:NH2	5:M:221:ASP:OD1	2.53	0.42
6:N:47:LEU:HD12	6:N:63:LEU:HA	2.02	0.42
6:N:347:ALA:CB	6:N:363:ILE:HG23	2.48	0.42
7:O:17:GLN:HE22	8:P:41:GLN:HB3	1.85	0.42
7:O:420:LEU:O	7:O:423:TYR:N	2.52	0.42
8:P:239:ILE:HD12	8:P:239:ILE:O	2.19	0.42
11:3:105:PHE:CE2	11:3:115:ALA:HB3	2.54	0.42
13:5:79:VAL:HG23	13:5:80:GLU:H	1.85	0.42
13:5:84:ILE:CD1	13:5:102:PHE:HB2	2.50	0.42
13:5:94:LYS:HD2	14:6:50:LEU:HD11	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:327:ILE:CD1	1:A:346:GLY:H	2.27	0.42
2:B:25:ARG:HA	2:B:25:ARG:HD3	1.83	0.42
2:B:43:LEU:HD21	2:B:446:LEU:HD11	2.02	0.42
2:B:431:LYS:O	2:B:434:VAL:HB	2.20	0.42
2:B:465:LEU:HA	2:B:468:ALA:HB3	2.01	0.42
3:C:44:LYS:HD2	3:C:482:GLY:O	2.20	0.42
3:C:63:GLY:O	3:C:67:LEU:HG	2.20	0.42
3:C:205:PRO:HD2	3:C:360:PHE:CZ	2.52	0.42
4:D:33:ILE:HG22	4:D:37:ASN:OD1	2.18	0.42
4:D:213:LYS:HD3	4:D:391:ARG:NE	2.35	0.42
5:E:251:LEU:HD22	5:E:253:CYS:SG	2.60	0.42
5:E:303:GLN:O	5:E:325:VAL:N	2.53	0.42
6:F:453:GLN:CG	6:F:458:ASP:HA	2.50	0.42
6:F:490:ALA:HA	6:F:495:TRP:HE1	1.84	0.42
7:G:237:ILE:HG21	7:G:322:THR:HG21	2.02	0.42
7:G:246:LEU:HD22	7:G:297:ASP:OD1	2.20	0.42
7:G:406:VAL:N	7:G:494:GLU:O	2.51	0.42
8:H:54:LYS:HE2	8:H:66:THR:O	2.20	0.42
8:H:191:PHE:CE1	8:H:371:ALA:HB3	2.54	0.42
8:H:509:LYS:O	8:H:512:THR:HB	2.20	0.42
1:I:25:ALA:HB2	1:I:101:LEU:HD21	2.02	0.42
1:I:132:ILE:HG23	1:I:409:VAL:HG13	2.01	0.42
1:I:148:LEU:HA	1:I:151:ALA:HB3	2.01	0.42
1:I:419:LEU:HD23	1:I:422:TYR:HD2	1.85	0.42
2:J:291:ILE:HB	2:J:315:ALA:CB	2.49	0.42
2:J:388:ARG:HA	2:J:391:HIS:HB3	2.02	0.42
2:J:452:ASP:OD1	2:J:452:ASP:N	2.53	0.42
3:K:144:VAL:HG22	3:K:405:PRO:O	2.19	0.42
3:K:156:ILE:HA	3:K:397:VAL:HG11	2.02	0.42
3:K:399:ARG:HH22	3:K:403:LEU:HD22	1.84	0.42
3:K:462:LEU:HD22	3:K:485:GLY:O	2.19	0.42
4:L:352:THR:OG1	4:L:354:ASP:OD1	2.30	0.42
5:M:143:VAL:HB	5:M:433:VAL:HG22	2.02	0.42
5:M:156:LEU:HD22	5:M:160:LYS:HE3	2.02	0.42
5:M:480:ARG:HA	5:M:483:LYS:CE	2.50	0.42
6:N:109:TYR:CZ	6:N:435:LEU:HB3	2.54	0.42
6:N:319:ARG:HE	6:N:323:ARG:HH12	1.68	0.42
6:N:352:GLU:HG2	6:N:361:THR:OG1	2.18	0.42
6:N:376:ILE:HG22	6:N:384:LEU:HD12	2.02	0.42
7:O:110:PRO:O	7:O:114:GLU:N	2.40	0.42
7:O:504:THR:HG23	7:O:505:ALA:H	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:3:141:GLN:NE2	11:3:145:GLU:OE2	2.53	0.42
1:A:288:THR:OG1	1:A:292:ILE:HD11	2.20	0.42
1:A:417:ALA:HB3	1:A:485:TRP:HE1	1.84	0.42
2:B:26:LEU:HD23	2:B:29:PHE:HD2	1.85	0.42
2:B:148:HIS:HB3	2:B:406:THR:HG23	2.01	0.42
2:B:432:GLU:O	2:B:436:MET:N	2.39	0.42
2:B:439:TYR:CE2	2:B:443:LEU:HD11	2.55	0.42
2:B:477:GLY:O	2:B:486:GLY:N	2.33	0.42
3:C:136:THR:HA	3:C:139:LYS:NZ	2.34	0.42
3:C:464:THR:HG23	8:P:431:PRO:HB3	2.01	0.42
4:D:147:ILE:O	4:D:150:ASP:HB2	2.20	0.42
4:D:231:GLN:HB3	4:D:372:LYS:HZ2	1.85	0.42
4:D:321:LYS:HA	4:D:321:LYS:HD3	1.84	0.42
4:D:529:ILE:HA	4:D:532:ILE:HB	2.02	0.42
5:E:155:VAL:O	5:E:156:LEU:HD12	2.20	0.42
5:E:277:LEU:O	5:E:280:TYR:HB2	2.20	0.42
6:F:217:ARG:HG2	6:F:302:LEU:CD1	2.47	0.42
7:G:13:THR:HG23	7:G:521:LYS:O	2.20	0.42
8:H:81:PRO:HA	8:H:84:LYS:HB3	2.01	0.42
8:H:242:TYR:HA	8:H:332:ALA:HA	2.01	0.42
8:H:497:ILE:O	8:H:498:LEU:HD12	2.20	0.42
8:H:504:LYS:HA	8:H:507:ALA:HB3	2.02	0.42
1:I:149:ILE:HG12	1:I:173:VAL:HG21	2.02	0.42
2:J:90:VAL:HA	2:J:93:ASP:HB2	2.00	0.42
2:J:159:LEU:HD22	2:J:397:LEU:HG	2.00	0.42
3:K:228:ARG:CB	3:K:305:MET:HB3	2.49	0.42
3:K:255:ASP:HB2	3:K:266:ARG:HH22	1.85	0.42
3:K:376:LEU:HD22	3:K:391:LEU:CD1	2.50	0.42
4:L:305:LEU:HB2	4:L:308:ALA:HA	2.02	0.42
5:M:99:ASP:O	5:M:103:GLY:HA2	2.20	0.42
5:M:178:VAL:HG11	5:M:398:ALA:HA	2.00	0.42
5:M:213:GLY:HA2	5:M:387:ILE:O	2.20	0.42
5:M:223:LYS:NZ	5:M:364:PHE:HA	2.35	0.42
5:M:236:HIS:O	5:M:239:MET:HG2	2.20	0.42
5:M:535:LYS:HZ3	7:O:50:VAL:HG21	1.85	0.42
6:N:47:LEU:HD22	6:N:55:LYS:HE2	2.01	0.42
6:N:506:HIS:O	6:N:510:VAL:HG22	2.20	0.42
7:O:192:LEU:HB3	7:O:390:HIS:CE1	2.54	0.42
7:O:326:CYS:HB3	7:O:344:ARG:O	2.19	0.42
7:O:424:SER:O	7:O:428:PRO:HG3	2.19	0.42
8:P:138:LYS:HZ3	8:P:142:ILE:HD11	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:225:LYS:HE2	8:P:317:SER:N	2.34	0.42
8:P:419:LEU:HB3	8:P:445:PHE:CZ	2.54	0.42
11:3:68:ALA:O	11:3:72:ARG:HG3	2.20	0.42
11:3:88:LEU:O	11:3:92:GLN:HG3	2.20	0.42
13:5:94:LYS:HZ3	14:6:50:LEU:HG	1.85	0.42
1:A:254:ILE:H	3:C:269:GLN:CB	2.30	0.42
1:A:320:ALA:HB1	1:A:327:ILE:HG21	2.01	0.42
2:B:142:LEU:HD23	2:B:497:PHE:CZ	2.54	0.42
2:B:376:ARG:HA	2:B:376:ARG:HD3	1.76	0.42
3:C:98:VAL:HG12	3:C:505:THR:HA	2.01	0.42
3:C:278:LEU:HD21	3:C:336:GLU:HG2	2.02	0.42
3:C:370:LYS:HB3	3:C:371:ALA:H	1.71	0.42
3:C:454:ASN:O	6:F:117:ARG:HD3	2.19	0.42
4:D:145:ILE:O	4:D:148:LEU:HB3	2.20	0.42
4:D:312:LEU:CB	14:6:78:LYS:HG2	2.50	0.42
4:D:395:LYS:O	4:D:398:ILE:HB	2.18	0.42
5:E:263:LYS:O	5:E:264:HIS:CD2	2.73	0.42
5:E:452:ALA:HA	5:E:455:LEU:HD12	2.02	0.42
6:F:304:ALA:O	6:F:308:GLU:HG3	2.19	0.42
6:F:347:ALA:HB1	6:F:364:GLU:O	2.19	0.42
6:F:432:ARG:HG2	6:N:461:GLU:HG3	2.02	0.42
7:G:75:ALA:O	7:G:78:THR:OG1	2.35	0.42
7:G:375:ARG:HA	7:G:382:MET:HE3	2.02	0.42
7:G:444:ILE:O	7:G:447:ARG:HG2	2.19	0.42
7:G:459:ASN:CG	7:G:463:LYS:HZ2	2.20	0.42
8:H:64:PHE:CE2	8:H:71:THR:HG21	2.54	0.42
1:I:101:LEU:HB3	1:I:521:ALA:HA	2.00	0.42
1:I:149:ILE:O	1:I:152:ALA:HB3	2.20	0.42
2:J:148:HIS:CE1	2:J:157:GLN:HE21	2.37	0.42
2:J:174:HIS:H	2:J:210:ALA:CB	2.33	0.42
2:J:469:HIS:CA	2:J:473:ASN:HB2	2.50	0.42
2:J:477:GLY:HA3	2:J:488:MET:HG2	2.01	0.42
3:K:153:LEU:CA	3:K:156:ILE:HG22	2.49	0.42
3:K:229:MET:HB3	3:K:310:THR:HA	2.01	0.42
3:K:501:VAL:O	3:K:505:THR:HG23	2.19	0.42
4:L:63:ASP:HB2	4:L:67:ASP:HB2	2.01	0.42
4:L:94:LEU:HD21	4:L:522:ALA:HB2	2.00	0.42
5:M:78:LEU:HD13	5:M:92:VAL:HA	2.02	0.42
5:M:170:LYS:HG2	5:M:183:ARG:NH2	2.35	0.42
5:M:230:VAL:HG11	5:M:322:VAL:HG21	2.01	0.42
5:M:308:ASP:HA	5:M:311:ASN:ND2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:417:ARG:HB3	5:M:510:LEU:HB3	2.00	0.42
6:N:100:GLY:HA2	6:N:103:LEU:HD12	2.02	0.42
6:N:104:LYS:O	6:N:108:LEU:HG	2.19	0.42
6:N:109:TYR:CE2	6:N:439:ALA:HB2	2.50	0.42
6:N:129:LYS:O	6:N:133:PHE:HD2	2.03	0.42
6:N:148:LEU:HD13	6:N:176:ILE:HD11	2.02	0.42
6:N:348:GLY:CA	6:N:365:LYS:HB3	2.49	0.42
7:O:205:LEU:HD23	7:O:375:ARG:HB3	2.02	0.42
8:P:401:VAL:HG11	8:P:500:THR:HG21	2.02	0.42
12:4:84:GLN:HA	12:4:87:LEU:HD12	2.02	0.42
13:5:66:LEU:HG	13:5:67:THR:HG22	2.01	0.42
1:A:104:ALA:HA	1:A:107:LEU:HD12	2.00	0.41
1:A:121:TYR:CD1	1:A:437:ALA:O	2.73	0.41
2:B:236:LYS:O	2:B:288:ASN:N	2.53	0.41
2:B:281:ARG:O	2:B:284:LYS:HB2	2.20	0.41
3:C:179:ALA:HA	3:C:372:CYS:HB2	2.01	0.41
3:C:240:LEU:HA	3:C:291:ILE:O	2.19	0.41
4:D:183:LEU:HD21	4:D:401:ALA:HB1	2.01	0.41
4:D:277:ARG:HD2	12:4:59:LEU:HB2	2.01	0.41
4:D:405:ILE:HB	4:D:409:LEU:HG	2.02	0.41
6:F:34:LEU:HD22	6:F:37:ASN:CG	2.40	0.41
7:G:104:PHE:HE1	7:G:438:TYR:HA	1.85	0.41
7:G:111:TYR:CE1	7:G:433:LEU:HD13	2.55	0.41
7:G:498:VAL:HA	7:G:501:ASN:ND2	2.35	0.41
8:H:156:ASP:OD2	8:H:159:GLU:HG2	2.20	0.41
1:I:225:MET:SD	1:I:307:ALA:HB3	2.60	0.41
2:J:101:SER:HB3	2:J:503:VAL:HB	2.01	0.41
3:K:232:TYR:HE1	3:K:351:GLU:HA	1.83	0.41
3:K:241:LEU:HA	3:K:245:LEU:O	2.19	0.41
3:K:381:LYS:HG3	3:K:384:LEU:HD23	2.01	0.41
3:K:461:ARG:HA	3:K:464:THR:HB	2.01	0.41
4:L:99:ASP:HB2	4:L:106:THR:HG22	2.02	0.41
5:M:193:VAL:CG1	5:M:410:ARG:HB2	2.50	0.41
5:M:410:ARG:O	5:M:414:ARG:HG3	2.19	0.41
6:N:225:VAL:O	6:N:350:VAL:N	2.45	0.41
6:N:239:TYR:HB3	6:N:242:THR:HG21	2.02	0.41
6:N:240:GLU:O	6:N:242:THR:HG23	2.20	0.41
6:N:319:ARG:HH21	6:N:323:ARG:NH2	2.17	0.41
6:N:445:LEU:HB2	6:N:449:LYS:HZ3	1.85	0.41
7:O:108:VAL:HA	7:O:111:TYR:HD2	1.84	0.41
7:O:421:ARG:HA	7:O:424:SER:CB	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:522:ASN:HB2	8:P:58:ASN:CA	2.48	0.41
8:P:143:LEU:HD21	8:P:508:ILE:HD12	2.02	0.41
13:5:94:LYS:HE2	13:5:102:PHE:HE2	1.85	0.41
13:5:104:LYS:HA	13:5:107:ILE:HD12	2.01	0.41
2:B:424:LEU:CA	2:B:427:ARG:HE	2.32	0.41
2:B:501:ARG:HG3	2:B:502:GLN:N	2.34	0.41
3:C:45:SER:H	6:F:117:ARG:CZ	2.34	0.41
3:C:183:VAL:HG13	3:C:372:CYS:H	1.84	0.41
3:C:374:ILE:HD13	3:C:391:LEU:HD21	2.01	0.41
4:D:246:ILE:O	4:D:356:LEU:HA	2.20	0.41
4:D:529:ILE:HA	4:D:532:ILE:HD12	2.01	0.41
5:E:50:THR:O	5:E:57:LEU:N	2.52	0.41
5:E:258:PRO:O	7:G:263:TYR:HD1	2.03	0.41
5:E:396:GLU:OE2	5:E:400:ARG:HB2	2.20	0.41
5:E:433:VAL:HG11	5:E:451:PHE:CD2	2.55	0.41
6:F:129:LYS:O	6:F:133:PHE:N	2.47	0.41
6:F:204:THR:OG1	6:F:376:ILE:HG22	2.20	0.41
7:G:161:THR:OG1	7:G:491:PHE:HB3	2.20	0.41
7:G:214:VAL:HG11	7:G:321:ARG:O	2.21	0.41
7:G:435:ILE:O	7:G:439:ALA:N	2.37	0.41
7:G:455:PHE:HB3	7:G:460:ILE:HG12	2.01	0.41
8:H:198:ASN:CB	8:H:201:ASN:HB2	2.48	0.41
1:I:43:LYS:O	1:I:54:ILE:HA	2.20	0.41
1:I:167:PHE:HD2	1:I:207:GLU:HA	1.85	0.41
2:J:108:GLU:OE2	2:J:446:LEU:HB2	2.20	0.41
2:J:499:VAL:HA	2:J:502:GLN:HB2	2.02	0.41
3:K:63:GLY:O	3:K:67:LEU:N	2.31	0.41
3:K:133:MET:HA	3:K:418:VAL:HG22	2.02	0.41
3:K:135:SER:HB3	3:K:139:LYS:NZ	2.35	0.41
3:K:288:ASP:HA	3:K:309:ILE:HD12	2.02	0.41
4:L:119:SER:O	4:L:123:LEU:HG	2.20	0.41
4:L:183:LEU:HA	4:L:186:MET:HE3	2.02	0.41
4:L:280:ARG:HA	4:L:316:PHE:HE2	1.85	0.41
4:L:460:VAL:HG12	4:L:481:ARG:HH21	1.85	0.41
5:M:500:ASP:CB	5:M:504:GLN:H	2.32	0.41
6:N:156:LEU:CD2	6:N:394:GLY:HA3	2.50	0.41
6:N:214:HIS:CG	6:N:215:GLY:N	2.88	0.41
8:P:193:ASP:HB2	8:P:196:HIS:ND1	2.34	0.41
8:P:284:ALA:HB3	8:P:308:TYR:OH	2.21	0.41
8:P:328:VAL:HA	8:P:369:ASP:CB	2.50	0.41
9:1:108:ALA:O	9:1:112:ILE:HG13	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:2:57:VAL:HG12	10:2:90:LEU:HD13	2.00	0.41
12:4:19:ASP:OD1	12:4:20:GLN:N	2.53	0.41
1:A:185:ARG:N	1:A:322:ALA:HA	2.35	0.41
1:A:410:PRO:HA	1:A:504:PHE:CD1	2.56	0.41
1:A:478:PRO:HD3	1:A:498:ASN:ND2	2.33	0.41
2:B:122:HIS:O	2:B:126:ILE:HG12	2.20	0.41
2:B:255:ARG:HG3	5:E:274:TYR:HE1	1.85	0.41
2:B:282:ILE:HG21	2:B:290:PHE:CD1	2.55	0.41
3:C:131:ASP:OD1	3:C:132:ASP:N	2.53	0.41
3:C:202:GLU:HB3	3:C:375:LEU:HA	2.02	0.41
3:C:279:CYS:HA	3:C:282:ILE:HD12	2.02	0.41
3:C:282:ILE:HG22	3:C:287:PRO:HG3	2.02	0.41
4:D:49:ARG:HE	4:D:111:ILE:HA	1.85	0.41
4:D:52:LEU:HB3	4:D:468:ASN:HD21	1.84	0.41
4:D:144:GLY:CA	4:D:436:LEU:HD11	2.50	0.41
4:D:272:MET:O	4:D:276:LEU:HG	2.21	0.41
4:D:330:ARG:O	4:D:334:GLU:HG2	2.21	0.41
4:D:373:LEU:HB2	4:D:375:LYS:NZ	2.34	0.41
5:E:58:ASP:CG	5:E:72:ASN:HD21	2.23	0.41
6:F:138:LYS:HA	6:F:408:VAL:CG1	2.50	0.41
6:F:463:LEU:O	6:F:466:ILE:HG22	2.20	0.41
7:G:210:LEU:HD12	7:G:372:PHE:HA	2.03	0.41
7:G:456:ASP:O	7:G:460:ILE:HB	2.20	0.41
8:H:23:SER:HB2	8:H:523:GLN:N	2.36	0.41
8:H:154:LEU:HD23	8:H:189:SER:HA	2.03	0.41
8:H:478:VAL:CB	8:H:484:ALA:HA	2.47	0.41
1:I:106:GLU:CD	4:L:471:LEU:HB2	2.41	0.41
1:I:164:ASN:HB2	1:I:168:PHE:CE2	2.55	0.41
1:I:348:ALA:HB1	1:I:365:LYS:O	2.20	0.41
1:I:446:LEU:HD22	1:I:468:ARG:NH2	2.34	0.41
2:J:186:ALA:HA	2:J:189:ARG:NE	2.35	0.41
2:J:437:GLU:HA	2:J:440:ALA:HB3	2.02	0.41
3:K:26:ASN:HB3	3:K:516:LEU:HB3	2.01	0.41
3:K:185:PHE:CD1	3:K:198:TYR:CD2	3.09	0.41
3:K:238:ILE:HG23	3:K:291:ILE:HG23	2.01	0.41
4:L:49:ARG:HE	4:L:464:THR:CB	2.30	0.41
4:L:115:SER:O	4:L:118:ASP:HB2	2.19	0.41
4:L:295:CYS:SG	4:L:356:LEU:HD13	2.60	0.41
5:M:214:LYS:HD3	5:M:369:ASP:HA	2.01	0.41
5:M:242:LYS:CD	5:M:360:GLN:HG2	2.49	0.41
5:M:436:GLU:HA	5:M:439:LYS:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:292:ILE:CG2	6:N:316:ALA:HB2	2.50	0.41
7:O:16:SER:HB2	7:O:21:GLN:OE1	2.21	0.41
7:O:87:ASP:HB2	7:O:94:THR:HG22	2.01	0.41
7:O:107:GLN:HE22	7:O:441:ALA:HA	1.84	0.41
8:P:280:VAL:HA	8:P:283:ILE:HB	2.01	0.41
8:P:408:LEU:HD23	8:P:498:LEU:CD1	2.50	0.41
13:5:84:ILE:HD12	13:5:102:PHE:HB2	2.01	0.41
1:A:333:ASN:OD1	1:A:338:GLU:HB2	2.21	0.41
1:A:417:ALA:HB1	1:A:468:ARG:HD2	2.03	0.41
2:B:387:GLU:O	2:B:391:HIS:N	2.40	0.41
2:B:411:GLY:O	2:B:414:GLU:HB2	2.20	0.41
3:C:446:VAL:HG13	3:C:447:ILE:N	2.36	0.41
3:C:473:GLU:HB3	3:C:478:TRP:CE3	2.55	0.41
4:D:38:ILE:HG22	4:D:42:LYS:HZ2	1.85	0.41
6:F:39:GLY:O	6:F:158:THR:HA	2.20	0.41
6:F:193:ILE:HD12	6:F:374:LEU:HB2	2.02	0.41
6:F:237:LEU:HD13	6:F:301:SER:HB3	2.01	0.41
7:G:14:ASP:CG	7:G:523:PRO:HD3	2.40	0.41
7:G:159:ALA:HB1	7:G:392:ALA:HB1	2.01	0.41
7:G:166:LYS:HZ1	7:G:387:ARG:NH1	2.18	0.41
7:G:235:PRO:CG	7:G:345:CYS:HB2	2.51	0.41
8:H:103:PHE:HD1	8:H:448:ILE:HG12	1.85	0.41
8:H:219:HIS:HA	8:H:373:SER:HA	2.02	0.41
8:H:292:VAL:HG12	8:H:316:ASN:OD1	2.20	0.41
8:H:365:HIS:O	8:H:372:ILE:HG12	2.20	0.41
1:I:106:GLU:HG3	4:L:471:LEU:HB2	2.02	0.41
1:I:283:ALA:HB2	1:I:345:LEU:HD22	2.03	0.41
1:I:473:GLU:O	1:I:476:VAL:HG13	2.20	0.41
2:J:92:ASP:CB	2:J:98:GLY:H	2.34	0.41
2:J:115:SER:O	2:J:119:LYS:HG3	2.20	0.41
2:J:127:ILE:HD12	2:J:512:GLU:HB3	2.02	0.41
3:K:176:ALA:HB2	3:K:391:LEU:HD23	2.03	0.41
3:K:296:ILE:CD1	3:K:311:ALA:HB1	2.50	0.41
3:K:313:ARG:CZ	3:K:314:ARG:HH12	2.33	0.41
3:K:354:LYS:HD2	3:K:359:TYR:CZ	2.54	0.41
5:M:307:ASP:N	5:M:310:ALA:HB3	2.35	0.41
6:N:176:ILE:HG22	6:N:187:ASP:OD2	2.20	0.41
6:N:179:ILE:HG22	6:N:370:ARG:NH1	2.35	0.41
7:O:141:VAL:HG21	7:O:474:TRP:CH2	2.55	0.41
7:O:149:VAL:HG13	7:O:150:GLU:H	1.86	0.41
8:P:165:ARG:O	8:P:168:ILE:HG12	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:308:TYR:HD2	8:P:310:ILE:HB	1.85	0.41
8:P:409:VAL:HG21	8:P:501:TYR:HA	2.01	0.41
10:2:40:LEU:HD23	10:2:43:LYS:HE2	2.01	0.41
11:3:92:GLN:NE2	11:3:137:ILE:O	2.54	0.41
1:A:203:ARG:HD3	1:A:207:GLU:OE1	2.21	0.41
1:A:507:THR:HG23	1:A:508:ILE:HG23	2.03	0.41
2:B:40:LYS:HB2	2:B:449:ILE:HG21	2.02	0.41
2:B:190:LEU:C	2:B:192:GLY:H	2.24	0.41
2:B:238:LEU:HB2	2:B:287:ILE:HG21	2.00	0.41
2:B:358:LYS:O	2:B:359:LEU:HD23	2.21	0.41
2:B:466:ARG:HH11	2:J:433:ALA:HB1	1.86	0.41
3:C:126:TYR:HD2	3:C:514:VAL:HG22	1.84	0.41
3:C:304:LEU:HB3	3:C:309:ILE:O	2.20	0.41
4:D:73:ASP:OD1	4:D:107:THR:OG1	2.27	0.41
4:D:209:LYS:HB3	4:D:387:THR:HA	2.02	0.41
4:D:232:LYS:HZ3	4:D:234:SER:HB2	1.84	0.41
5:E:47:THR:HG22	5:E:59:LYS:HD3	2.03	0.41
5:E:253:CYS:HA	7:G:271:TRP:HH2	1.85	0.41
5:E:534:ARG:HH12	7:G:69:LEU:HB2	1.83	0.41
6:F:145:ARG:NH2	6:F:170:GLU:OE2	2.53	0.41
6:F:165:ALA:O	6:F:169:THR:N	2.50	0.41
6:F:238:GLU:HB3	6:F:296:GLY:C	2.41	0.41
6:F:498:TYR:CE2	6:F:502:LYS:HD2	2.56	0.41
7:G:74:PRO:O	7:G:78:THR:HG23	2.21	0.41
7:G:209:GLN:O	7:G:373:ILE:N	2.33	0.41
7:G:446:PRO:HB2	7:G:461:LEU:HD21	2.02	0.41
8:H:173:TYR:CB	8:H:480:LEU:HD23	2.51	0.41
8:H:196:HIS:CE1	8:H:370:GLY:N	2.86	0.41
1:I:100:LEU:HD21	1:I:441:PHE:HA	2.01	0.41
1:I:107:LEU:HB2	1:I:117:VAL:HG21	2.02	0.41
1:I:137:ILE:HG13	1:I:481:LYS:O	2.21	0.41
1:I:353:GLN:HB3	1:I:360:GLU:OE2	2.19	0.41
1:I:393:HIS:CD2	1:I:396:LEU:HD12	2.47	0.41
2:J:415:MET:HB3	2:J:466:ARG:CB	2.50	0.41
2:J:518:ASP:HB2	5:M:59:LYS:CE	2.50	0.41
3:K:178:ASP:O	3:K:182:MET:HG2	2.20	0.41
3:K:184:GLN:O	3:K:369:PRO:HA	2.21	0.41
3:K:472:GLN:HG2	3:K:473:GLU:HG3	2.03	0.41
4:L:94:LEU:CD2	4:L:110:VAL:HA	2.50	0.41
4:L:110:VAL:O	4:L:113:ALA:N	2.49	0.41
6:N:149:ILE:HD13	6:N:173:VAL:HG21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:448:PRO:O	6:N:479:VAL:HG21	2.21	0.41
7:O:200:VAL:HG12	7:O:358:TYR:CE2	2.56	0.41
7:O:200:VAL:HG23	7:O:375:ARG:HG2	2.01	0.41
7:O:276:ASP:O	7:O:280:LYS:HG3	2.21	0.41
8:P:118:LEU:HB3	8:P:123:LEU:HB2	2.01	0.41
8:P:249:MET:HB3	8:P:254:LYS:HE3	2.02	0.41
11:3:146:LYS:HE2	11:3:150:THR:HB	2.02	0.41
13:5:48:ASP:HA	13:5:51:ASN:HB2	2.03	0.41
13:5:57:ASN:ND2	13:5:60:LYS:HE2	2.35	0.41
13:5:62:LEU:CD1	13:5:76:LEU:HB2	2.46	0.41
13:5:101:ASP:O	13:5:105:ARG:N	2.41	0.41
14:6:19:LEU:HD23	14:6:97:LEU:HD23	2.01	0.41
1:A:260:LEU:HD22	3:C:276:GLN:HB3	2.03	0.41
1:A:416:GLU:HG2	1:A:449:PRO:HD3	2.03	0.41
1:A:453:ALA:HB2	1:A:492:ASN:O	2.21	0.41
1:A:528:ASP:H	4:D:59:LYS:HG3	1.86	0.41
2:B:141:LEU:HD21	2:B:501:ARG:CB	2.51	0.41
2:B:164:GLY:O	2:B:168:SER:HB3	2.21	0.41
2:B:212:SER:HA	2:B:376:ARG:H	1.85	0.41
3:C:209:ILE:HA	3:C:212:SER:HB3	2.02	0.41
4:D:103:GLY:HA3	4:D:410:CYS:SG	2.60	0.41
4:D:230:THR:HG21	4:D:327:ASP:O	2.19	0.41
4:D:280:ARG:O	4:D:284:LEU:HG	2.21	0.41
4:D:423:ALA:HA	4:D:509:VAL:HG12	2.03	0.41
4:D:503:ILE:O	4:D:507:LEU:HA	2.21	0.41
5:E:46:ASN:HA	5:E:49:ARG:HB2	2.01	0.41
5:E:243:VAL:HB	5:E:361:GLU:H	1.86	0.41
5:E:305:GLY:HA3	5:E:324:TRP:CD1	2.55	0.41
5:E:387:ILE:HG12	5:E:388:ARG:O	2.19	0.41
6:F:45:LYS:HG3	8:H:522:ASP:H	1.85	0.41
6:F:225:VAL:HG13	6:F:288:GLY:HA3	2.01	0.41
6:F:237:LEU:HA	6:F:267:ILE:HG12	2.02	0.41
6:F:483:THR:HB	6:F:485:GLU:HG2	2.02	0.41
7:G:30:GLN:NE2	7:G:102:ALA:O	2.37	0.41
7:G:202:GLY:H	7:G:377:GLY:CA	2.29	0.41
7:G:331:GLN:HE22	7:G:342:LEU:CD2	2.32	0.41
7:G:500:ILE:O	7:G:504:THR:N	2.34	0.41
1:I:257:PRO:HG2	3:K:278:LEU:HA	2.02	0.41
1:I:274:ARG:NH1	1:I:278:ILE:HG13	2.36	0.41
3:K:140:ILE:HB	3:K:476:GLU:OE2	2.20	0.41
3:K:200:ARG:HH21	3:K:316:ARG:NH2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:319:ASP:HA	3:K:322:ARG:HH21	1.84	0.41
4:L:367:LEU:HD22	4:L:391:ARG:HD3	2.03	0.41
5:M:78:LEU:HB3	5:M:92:VAL:HA	2.03	0.41
5:M:172:THR:HG21	5:M:408:VAL:HG21	2.03	0.41
5:M:207:GLU:HG2	5:M:208:LEU:HG	2.03	0.41
5:M:364:PHE:CE2	5:M:371:MET:HG2	2.55	0.41
5:M:437:ALA:HA	5:M:448:MET:HE2	2.03	0.41
5:M:522:GLN:O	5:M:526:MET:HG2	2.21	0.41
6:N:161:HIS:CG	8:P:520:ARG:HH12	2.38	0.41
6:N:277:LEU:HB2	6:N:338:ASP:OD1	2.21	0.41
6:N:448:PRO:HA	6:N:479:VAL:HB	2.03	0.41
7:O:339:ALA:HA	7:O:342:LEU:HB2	2.03	0.41
14:6:89:ARG:O	14:6:92:SER:HB2	2.21	0.41
1:A:112:ILE:HG13	1:A:436:LEU:HD23	2.02	0.41
1:A:122:ARG:O	1:A:126:LYS:HG2	2.20	0.41
1:A:156:MET:HE1	1:A:168:PHE:CB	2.50	0.41
1:A:199:LYS:HE3	1:A:389:GLU:HA	2.02	0.41
1:A:241:LEU:HB2	1:A:292:ILE:HG23	2.03	0.41
1:A:366:ASN:CA	1:A:372:SER:H	2.29	0.41
2:B:141:LEU:HD22	2:B:504:LEU:HD23	2.02	0.41
2:B:200:HIS:HD2	2:B:322:ARG:NH1	2.10	0.41
2:B:200:HIS:HE1	2:B:219:LEU:O	2.04	0.41
3:C:216:ARG:O	3:C:364:THR:HG22	2.21	0.41
3:C:230:ARG:HB3	3:C:231:ARG:H	1.64	0.41
4:D:123:LEU:HD11	4:D:450:CYS:HA	2.02	0.41
4:D:441:ARG:HH21	5:M:434:SER:CB	2.34	0.41
5:E:96:LYS:O	5:E:100:ASP:N	2.52	0.41
5:E:129:HIS:HB2	5:E:132:ARG:HG3	2.02	0.41
5:E:165:LEU:HD11	5:E:412:LEU:HD22	2.02	0.41
5:E:232:LYS:HZ2	5:E:321:ALA:C	2.24	0.41
5:E:284:LYS:HE2	7:G:261:GLU:HA	2.03	0.41
5:E:343:PRO:CD	5:E:352:LYS:HD2	2.45	0.41
6:F:84:GLN:HE22	6:F:504:LEU:HB3	1.86	0.41
6:F:278:LYS:HG2	6:F:308:GLU:HB3	2.03	0.41
6:F:494:VAL:O	6:F:495:TRP:HD1	2.04	0.41
7:G:198:LYS:HB3	7:G:217:LYS:HD3	2.03	0.41
7:G:268:ASP:HA	7:G:271:TRP:CE3	2.55	0.41
7:G:282:HIS:CE1	7:G:303:PHE:HD1	2.38	0.41
8:H:57:ILE:HD12	8:H:61:GLU:HB3	2.03	0.41
8:H:108:ALA:O	8:H:112:LEU:N	2.46	0.41
8:H:177:VAL:O	8:H:181:LYS:HG2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:183:ILE:O	8:H:186:ALA:HB3	2.21	0.41
8:H:212:ILE:HA	8:H:378:ARG:O	2.21	0.41
8:H:237:ALA:CB	8:H:289:ASN:HB2	2.50	0.41
8:H:341:LEU:HD22	8:H:344:MET:N	2.36	0.41
8:H:407:ARG:O	8:H:501:TYR:N	2.54	0.41
1:I:35:SER:HB3	1:I:56:ASN:O	2.20	0.41
1:I:422:TYR:OH	1:I:484:LYS:HE3	2.21	0.41
1:I:481:LYS:HE2	1:I:483:LEU:HG	2.03	0.41
2:J:187:VAL:HA	2:J:194:GLY:HA2	2.03	0.41
2:J:465:LEU:O	2:J:469:HIS:CD2	2.74	0.41
2:J:520:ILE:HA	5:M:60:MET:O	2.20	0.41
3:K:26:ASN:ND2	3:K:516:LEU:HD22	2.36	0.41
3:K:253:GLN:N	3:K:270:MET:SD	2.93	0.41
4:L:51:SER:HB2	4:L:465:LEU:HG	2.02	0.41
4:L:432:LEU:O	4:L:436:LEU:N	2.49	0.41
6:N:149:ILE:O	6:N:153:ARG:HG2	2.20	0.41
6:N:228:ALA:O	6:N:346:HIS:ND1	2.43	0.41
7:O:405:VAL:HG11	7:O:493:TRP:HB3	2.03	0.41
8:P:68:ASP:HA	8:P:171:LYS:HE3	2.01	0.41
8:P:182:LEU:HD22	8:P:217:VAL:HG23	2.02	0.41
8:P:221:MET:N	8:P:365:HIS:HD1	2.18	0.41
8:P:437:ALA:O	8:P:441:PHE:N	2.50	0.41
8:P:505:TYR:CZ	8:P:509:LYS:HD2	2.56	0.41
13:5:50:LEU:HA	13:5:53:LEU:HB3	2.02	0.41
2:B:274:LYS:HB2	2:B:274:LYS:HE3	1.84	0.41
2:B:424:LEU:N	2:B:427:ARG:HE	2.18	0.41
2:B:517:VAL:HA	5:E:58:ASP:O	2.21	0.41
3:C:95:THR:O	3:C:98:VAL:HG22	2.21	0.41
3:C:195:ILE:HG12	3:C:198:TYR:CD2	2.55	0.41
3:C:238:ILE:HG21	3:C:363:ILE:CG2	2.49	0.41
3:C:416:MET:HB3	3:C:475:CYS:SG	2.61	0.41
3:C:491:LYS:HG2	3:C:496:TRP:CH2	2.55	0.41
4:D:180:SER:O	4:D:183:LEU:N	2.54	0.41
4:D:184:SER:HA	4:D:187:SER:HB2	2.02	0.41
5:E:42:LYS:HA	5:E:118:GLU:OE2	2.21	0.41
5:E:151:ILE:HG12	5:E:486:ASN:CB	2.50	0.41
5:E:226:LYS:HA	5:E:383:VAL:HG22	2.03	0.41
5:E:355:PHE:HB3	5:E:378:LYS:CB	2.50	0.41
6:F:34:LEU:HD23	6:F:34:LEU:HA	1.86	0.41
6:F:94:SER:HB3	6:F:447:ILE:HD13	2.03	0.41
6:F:344:LEU:H	6:F:344:LEU:HG	1.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:116:LEU:HG	7:G:121:ILE:HG23	2.03	0.41
7:G:190:LEU:HD12	7:G:397:ARG:HB3	2.01	0.41
7:G:315:PRO:O	7:G:319:LEU:N	2.46	0.41
7:G:428:PRO:C	7:G:432:GLN:HB2	2.41	0.41
8:H:21:HIS:HA	8:H:523:GLN:HG3	2.02	0.41
8:H:98:GLY:HA2	8:H:397:ASN:HD22	1.85	0.41
8:H:238:LYS:HD2	8:H:345:GLY:H	1.86	0.41
1:I:147:CYS:SG	1:I:148:LEU:N	2.94	0.41
1:I:214:TYR:HB2	1:I:319:ILE:HG12	2.02	0.41
1:I:235:ALA:HB3	1:I:286:ILE:HA	2.02	0.41
2:J:29:PHE:HZ	2:J:117:ILE:HG13	1.86	0.41
2:J:32:ALA:CB	2:J:84:LEU:HD22	2.51	0.41
2:J:299:TYR:HE1	4:L:347:HIS:CD2	2.39	0.41
2:J:349:ILE:HG23	2:J:362:PHE:CE1	2.55	0.41
2:J:501:ARG:O	2:J:505:LEU:HG	2.20	0.41
3:K:114:GLU:C	3:K:117:MET:H	2.24	0.41
3:K:282:ILE:O	3:K:286:LYS:N	2.45	0.41
3:K:409:PRO:HB3	3:K:490:MET:HB2	2.02	0.41
4:L:293:THR:HG23	4:L:352:THR:OG1	2.21	0.41
4:L:340:ILE:HG22	4:L:357:GLY:HA3	2.03	0.41
4:L:423:ALA:HB3	4:L:428:PRO:CD	2.46	0.41
5:M:124:LEU:HD22	5:M:130:PRO:HD3	2.03	0.41
5:M:192:ALA:O	5:M:383:VAL:HG11	2.21	0.41
5:M:206:PHE:CZ	5:M:407:CYS:HA	2.56	0.41
5:M:246:ALA:HA	5:M:356:ALA:H	1.84	0.41
5:M:298:ASN:O	5:M:320:PRO:HB2	2.20	0.41
5:M:364:PHE:HE2	5:M:371:MET:HG2	1.85	0.41
6:N:89:GLY:HA3	6:N:396:ARG:HG3	2.03	0.41
6:N:118:ILE:HB	6:N:432:ARG:HH11	1.86	0.41
6:N:131:LEU:HD11	6:N:506:HIS:CE1	2.56	0.41
6:N:189:PHE:HB3	6:N:371:SER:OG	2.21	0.41
7:O:111:TYR:O	7:O:114:GLU:HG2	2.21	0.41
1:A:43:LYS:HD2	3:C:520:ASP:H	1.86	0.41
1:A:278:ILE:HD11	1:A:328:LEU:HD11	2.02	0.41
1:A:446:LEU:HD22	1:A:464:VAL:CG2	2.51	0.41
1:A:515:LYS:O	1:A:519:GLU:N	2.35	0.41
2:B:244:MET:O	2:B:300:PRO:HG3	2.21	0.41
2:B:347:LYS:H	2:B:364:GLY:HA3	1.85	0.41
2:B:415:MET:HB3	2:B:469:HIS:CE1	2.56	0.41
3:C:142:ILE:O	3:C:407:LEU:N	2.54	0.41
3:C:229:MET:HB2	3:C:352:ILE:HD11	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:240:LEU:H	3:C:343:VAL:HB	1.85	0.41
3:C:245:LEU:HB2	3:C:295:GLY:O	2.21	0.41
3:C:321:ASN:O	3:C:325:ARG:N	2.54	0.41
3:C:352:ILE:HA	3:C:361:THR:HA	2.03	0.41
3:C:477:THR:OG1	3:C:490:MET:N	2.50	0.41
4:D:29:LYS:HB3	4:D:30:PRO:HD3	2.03	0.41
4:D:49:ARG:HH22	4:D:114:GLY:CA	2.34	0.41
4:D:64:GLY:H	4:D:81:MET:CE	2.34	0.41
4:D:293:THR:OG1	4:D:351:PHE:HB3	2.21	0.41
4:D:295:CYS:HB2	4:D:322:ILE:HD13	2.02	0.41
4:D:440:SER:HB2	4:D:451:VAL:HG12	2.02	0.41
4:D:446:MET:HG3	5:M:471:ILE:CG2	2.51	0.41
4:D:460:VAL:O	4:D:464:THR:HG23	2.20	0.41
4:D:460:VAL:O	4:D:463:SER:HB2	2.21	0.41
5:E:33:ALA:O	5:E:37:HIS:N	2.33	0.41
5:E:285:PHE:O	5:E:289:ILE:HG13	2.21	0.41
6:F:102:LEU:HD13	6:F:440:PHE:HA	2.03	0.41
6:F:145:ARG:HG2	6:F:149:ILE:HG13	2.01	0.41
6:F:156:LEU:O	6:F:160:VAL:N	2.28	0.41
6:F:235:VAL:HG22	6:F:334:ASN:OD1	2.20	0.41
7:G:15:SER:OG	7:G:16:SER:N	2.54	0.41
7:G:109:LYS:N	7:G:110:PRO:HD2	2.36	0.41
7:G:123:ARG:HB2	7:G:431:GLN:NE2	2.35	0.41
7:G:240:LEU:N	7:G:290:LEU:O	2.33	0.41
7:G:462:ASN:HB3	1:I:435:GLN:HB3	2.02	0.41
8:H:23:SER:HB2	8:H:523:GLN:CA	2.51	0.41
8:H:381:THR:O	8:H:384:LEU:HB2	2.21	0.41
8:H:406:LYS:HB3	8:H:500:THR:OG1	2.19	0.41
8:H:458:VAL:HG21	8:H:485:GLU:O	2.20	0.41
1:I:15:GLU:HA	1:I:18:ARG:HB2	2.02	0.41
1:I:32:VAL:HG21	1:I:94:VAL:HG21	2.03	0.41
1:I:62:LEU:HD23	1:I:76:CYS:HA	2.03	0.41
1:I:85:GLU:HB3	1:I:512:LYS:NZ	2.36	0.41
1:I:146:ASP:HB2	1:I:150:ASN:HB2	2.03	0.41
1:I:202:GLY:N	1:I:379:GLY:O	2.51	0.41
1:I:227:LYS:HE2	1:I:360:GLU:CD	2.41	0.41
1:I:240:SER:N	1:I:334:LEU:HD22	2.36	0.41
1:I:246:MET:H	1:I:267:GLU:CD	2.24	0.41
1:I:287:LEU:HB3	1:I:311:VAL:HG11	2.03	0.41
1:I:530:LEU:HD23	4:L:59:LYS:NZ	2.36	0.41
2:J:262:ALA:O	2:J:266:GLU:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:126:TYR:O	3:K:130:LEU:N	2.53	0.41
3:K:133:MET:HB3	3:K:133:MET:HE2	1.72	0.41
3:K:172:ALA:O	3:K:176:ALA:N	2.49	0.41
3:K:204:ILE:HB	3:K:377:ARG:HG2	2.03	0.41
3:K:239:VAL:HG22	3:K:332:VAL:HG22	2.03	0.41
3:K:490:MET:HE3	3:K:493:LEU:HD23	2.01	0.41
4:L:170:SER:OG	4:L:411:VAL:HG11	2.21	0.41
4:L:285:ASN:HA	4:L:288:LYS:HD2	2.02	0.41
4:L:447:GLU:HA	4:L:450:CYS:CB	2.48	0.41
5:M:55:ASN:O	5:M:465:ASN:HB3	2.21	0.41
5:M:127:GLY:O	5:M:132:ARG:NH1	2.54	0.41
5:M:218:ARG:H	5:M:221:ASP:HB2	1.85	0.41
5:M:252:THR:HA	5:M:303:GLN:HB3	2.03	0.41
5:M:307:ASP:H	5:M:310:ALA:HB3	1.85	0.41
5:M:341:ILE:HD13	7:O:223:ALA:HB1	2.01	0.41
6:N:44:MET:SD	6:N:58:LYS:N	2.94	0.41
6:N:47:LEU:O	6:N:55:LYS:N	2.53	0.41
6:N:186:ILE:O	6:N:399:LYS:HG2	2.20	0.41
6:N:231:LEU:N	6:N:290:VAL:O	2.51	0.41
6:N:392:ARG:HA	6:N:395:LEU:HD12	2.02	0.41
7:O:122:ILE:HB	7:O:511:CYS:HA	2.02	0.41
7:O:139:ILE:HG23	7:O:406:VAL:HG12	2.02	0.41
7:O:183:VAL:HG22	7:O:393:ILE:HG23	2.03	0.41
7:O:279:GLU:HG3	7:O:283:HIS:ND1	2.30	0.41
7:O:348:PHE:CD1	7:O:361:PHE:HE1	2.39	0.41
7:O:428:PRO:CG	7:O:432:GLN:HB3	2.46	0.41
7:O:456:ASP:O	7:O:460:ILE:HD12	2.21	0.41
8:P:178:PHE:CE2	8:P:182:LEU:HD11	2.56	0.41
9:1:50:GLU:HB3	10:2:79:VAL:HG11	2.02	0.41
9:1:85:LYS:HA	9:1:88:GLU:HB3	2.02	0.41
10:2:34:ARG:O	10:2:38:ARG:N	2.28	0.41
12:4:23:ILE:HA	12:4:26:PHE:HB3	2.03	0.41
13:5:90:TYR:OH	14:6:47:LEU:HD21	2.20	0.41
1:A:294:ASP:O	1:A:298:LYS:N	2.53	0.41
1:A:529:ASP:O	4:D:61:ILE:HG12	2.20	0.41
2:B:121:ILE:HG22	2:B:126:ILE:HG12	2.02	0.41
2:B:155:PHE:HE2	2:B:188:LEU:HA	1.85	0.41
2:B:241:ASN:HA	2:B:293:ARG:HB3	2.03	0.41
2:B:326:VAL:O	2:B:367:LEU:N	2.53	0.41
2:B:419:HIS:HB3	2:B:423:GLN:NE2	2.36	0.41
3:C:156:ILE:HD12	3:C:177:LEU:HD12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:163:LYS:NZ	3:C:389:ARG:HB3	2.35	0.41
3:C:294:LYS:HE3	3:C:314:ARG:NH2	2.36	0.41
3:C:478:TRP:HA	3:C:488:VAL:O	2.20	0.41
4:D:64:GLY:H	4:D:81:MET:HE3	1.86	0.41
4:D:131:THR:O	4:D:135:GLU:HG2	2.21	0.41
4:D:179:TYR:CD1	4:D:218:ILE:HG13	2.56	0.41
4:D:276:LEU:HD11	14:6:82:TYR:CZ	2.56	0.41
5:E:131:ILE:HG12	7:G:43:ARG:CB	2.42	0.41
5:E:151:ILE:HB	5:E:419:VAL:HG23	2.03	0.41
5:E:313:LEU:HA	5:E:316:GLN:HB3	2.02	0.41
6:F:70:GLN:OE1	8:H:20:LYS:NZ	2.53	0.41
6:F:317:LYS:HB2	6:F:320:ASN:OD1	2.21	0.41
7:G:63:ALA:O	7:G:67:LYS:N	2.50	0.41
7:G:117:HIS:CE1	7:G:515:SER:HA	2.55	0.41
7:G:156:GLU:CG	7:G:180:VAL:HG21	2.51	0.41
8:H:52:MET:HG3	8:H:54:LYS:HG3	2.03	0.41
8:H:223:PHE:CE2	8:H:324:LEU:HD21	2.56	0.41
8:H:389:GLU:HA	8:H:392:VAL:HB	2.03	0.41
1:I:43:LYS:O	1:I:45:LEU:HG	2.20	0.41
2:J:128:ALA:HA	2:J:131:ARG:HB3	2.03	0.41
3:K:227:PRO:HD3	3:K:359:TYR:CE2	2.56	0.41
4:L:162:THR:HA	4:L:165:ASN:HB2	2.03	0.41
4:L:406:HIS:O	4:L:409:LEU:HB2	2.21	0.41
4:L:438:GLU:O	4:L:442:THR:HG23	2.20	0.41
4:L:496:ARG:HB3	4:L:508:VAL:CG2	2.51	0.41
5:M:135:ASP:O	5:M:139:GLN:N	2.23	0.41
6:N:80:VAL:HG21	6:N:511:ILE:HG21	2.03	0.41
6:N:419:ALA:HB2	6:N:444:LEU:HD12	2.02	0.41
7:O:139:ILE:HG21	7:O:412:ILE:HD12	2.03	0.41
7:O:280:LYS:HA	7:O:283:HIS:HE1	1.86	0.41
8:P:277:ASP:OD1	8:P:304:TYR:OH	2.30	0.41
8:P:321:LEU:HD11	8:P:332:ALA:HB2	2.03	0.41
8:P:418:GLU:HG3	8:P:473:GLU:O	2.21	0.41
8:P:429:THR:C	8:P:431:PRO:HD3	2.42	0.41
10:2:43:LYS:CB	10:2:105:THR:HG21	2.51	0.41
12:4:42:VAL:HG23	12:4:43:LYS:HG3	2.03	0.41
12:4:84:GLN:HA	12:4:87:LEU:HB2	2.03	0.41
13:5:62:LEU:N	13:5:74:GLY:O	2.35	0.41
13:5:62:LEU:HD21	13:5:76:LEU:HD13	2.02	0.41
1:A:168:PHE:O	1:A:172:VAL:HG22	2.20	0.40
1:A:189:ARG:HG2	1:A:190:TYR:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:461:THR:HA	1:A:464:VAL:HG12	2.03	0.40
1:A:466:LYS:HE3	1:A:470:PHE:CZ	2.55	0.40
2:B:141:LEU:HG	2:B:497:PHE:HE1	1.85	0.40
2:B:326:VAL:O	2:B:366:ALA:N	2.54	0.40
2:B:397:LEU:O	2:B:401:VAL:N	2.45	0.40
3:C:101:LEU:HB2	3:C:509:ALA:CB	2.51	0.40
3:C:104:GLU:O	3:C:108:VAL:HG23	2.21	0.40
3:C:194:ASP:HB2	3:C:403:LEU:HA	2.03	0.40
3:C:200:ARG:HG3	3:C:322:ARG:HG2	2.03	0.40
3:C:349:LEU:O	3:C:363:ILE:HA	2.22	0.40
3:C:463:LEU:HB3	3:C:467:ARG:NH1	2.37	0.40
4:D:141:LEU:HD12	4:D:523:THR:HG21	2.03	0.40
4:D:445:GLY:O	5:M:475:THR:HG21	2.21	0.40
4:D:451:VAL:O	4:D:454:PHE:HB3	2.20	0.40
5:E:225:ILE:HG13	5:E:229:ILE:HG12	2.03	0.40
5:E:266:LEU:HD23	5:E:277:LEU:HD11	2.02	0.40
5:E:463:SER:OG	5:E:473:THR:HG21	2.21	0.40
5:E:500:ASP:O	5:E:504:GLN:HG3	2.20	0.40
5:E:530:ILE:HG21	7:G:58:ILE:O	2.21	0.40
6:F:113:GLY:O	6:F:114:LEU:HB2	2.21	0.40
6:F:153:ARG:HG3	6:F:157:ARG:CZ	2.51	0.40
6:F:171:ALA:HA	6:F:174:ASP:OD2	2.21	0.40
6:F:447:ILE:HA	6:F:450:VAL:HG12	2.03	0.40
7:G:82:ILE:HA	7:G:85:SER:HB2	2.02	0.40
7:G:153:LYS:HA	7:G:156:GLU:HB2	2.02	0.40
7:G:243:GLU:HB3	7:G:293:LEU:CB	2.51	0.40
8:H:129:ILE:HG23	8:H:516:VAL:CG1	2.51	0.40
8:H:192:PRO:HB2	8:H:194:SER:OG	2.21	0.40
8:H:289:ASN:C	8:H:310:ILE:HG23	2.42	0.40
3:K:514:VAL:O	3:K:517:LEU:HB3	2.22	0.40
5:M:387:ILE:HD12	5:M:387:ILE:HA	1.94	0.40
5:M:412:LEU:HA	5:M:415:ASP:O	2.21	0.40
5:M:440:CYS:O	5:M:445:GLN:HB2	2.21	0.40
6:N:281:VAL:HG21	6:N:344:LEU:HD12	2.02	0.40
7:O:106:LYS:HA	7:O:109:LYS:HB2	2.03	0.40
7:O:200:VAL:O	7:O:375:ARG:HA	2.21	0.40
7:O:280:LYS:O	7:O:335:ASN:HA	2.22	0.40
8:P:432:GLY:O	8:P:435:GLN:N	2.22	0.40
10:2:33:LEU:HB2	11:3:176:MET:SD	2.61	0.40
14:6:19:LEU:HB3	14:6:97:LEU:HB3	2.03	0.40
14:6:102:GLU:O	14:6:105:ARG:HG2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:90:THR:OG1	1:A:91:THR:N	2.54	0.40
1:A:237:LEU:O	1:A:289:THR:N	2.38	0.40
1:A:271:THR:HG23	1:A:296:CYS:SG	2.62	0.40
1:A:426:TYR:O	1:A:430:MET:HG2	2.20	0.40
1:A:467:LEU:HD22	1:A:485:TRP:HD1	1.85	0.40
2:B:20:ARG:HH22	5:E:47:THR:N	2.19	0.40
2:B:66:ASP:OD1	2:B:67:GLY:N	2.54	0.40
3:C:119:PRO:O	3:C:123:ILE:HG13	2.22	0.40
4:D:55:LYS:CB	4:D:469:ALA:HA	2.51	0.40
4:D:94:LEU:CD1	4:D:521:LEU:HB3	2.51	0.40
4:D:102:ALA:HB1	4:D:104:ASP:HB2	2.04	0.40
4:D:138:GLN:HE22	4:D:141:LEU:HD13	1.86	0.40
4:D:157:LEU:HD22	4:D:416:VAL:HA	2.03	0.40
5:E:364:PHE:CD2	5:E:368:LYS:HD3	2.56	0.40
6:F:127:LYS:NZ	6:F:506:HIS:HA	2.36	0.40
6:F:511:ILE:O	6:F:515:ILE:HG12	2.20	0.40
7:G:27:SER:O	7:G:31:VAL:HG23	2.21	0.40
7:G:222:TYR:H	7:G:225:PHE:CB	2.34	0.40
7:G:318:ASP:HA	7:G:321:ARG:HB3	2.03	0.40
7:G:498:VAL:HA	7:G:501:ASN:HD22	1.86	0.40
8:H:43:THR:HG21	8:H:105:LEU:HD23	2.03	0.40
8:H:72:ILE:O	8:H:75:GLU:HB3	2.22	0.40
8:H:88:MET:O	8:H:91:HIS:HB2	2.22	0.40
8:H:125:VAL:HA	8:H:128:VAL:HG12	2.03	0.40
1:I:34:SER:HA	1:I:455:ASN:OD1	2.21	0.40
1:I:132:ILE:HG22	1:I:507:THR:OG1	2.21	0.40
1:I:184:ILE:HG13	1:I:185:ARG:H	1.85	0.40
2:J:43:LEU:HD21	2:J:446:LEU:CD1	2.50	0.40
2:J:105:LEU:O	2:J:108:GLU:HB2	2.21	0.40
2:J:399:GLN:NE2	2:J:499:VAL:H	2.19	0.40
2:J:423:GLN:O	2:J:426:ASN:HB2	2.22	0.40
3:K:230:ARG:HB2	3:K:308:ASN:O	2.21	0.40
3:K:239:VAL:HG13	3:K:332:VAL:O	2.21	0.40
4:L:94:LEU:HD11	4:L:109:VAL:HG22	2.03	0.40
4:L:129:HIS:HD2	4:L:131:THR:HB	1.86	0.40
4:L:174:LYS:NZ	4:L:407:ASP:OD2	2.48	0.40
4:L:207:ASP:O	4:L:385:THR:HA	2.21	0.40
4:L:250:GLN:H	4:L:344:PRO:HB3	1.86	0.40
5:M:201:ARG:HG3	5:M:202:ARG:N	2.36	0.40
5:M:301:ILE:HG13	5:M:301:ILE:O	2.21	0.40
5:M:475:THR:HA	5:M:478:ARG:CB	2.44	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:408:VAL:HG11	6:N:501:LYS:HE2	2.03	0.40
7:O:75:ALA:HA	7:O:513:ILE:HD13	2.03	0.40
7:O:398:ARG:HG3	7:O:495:PRO:CG	2.49	0.40
8:P:149:CYS:O	8:P:150:SER:OG	2.32	0.40
8:P:244:CYS:N	8:P:333:LEU:O	2.52	0.40
10:2:74:VAL:HB	10:2:77:VAL:O	2.21	0.40
12:4:33:ILE:HA	12:4:108:ILE:HG21	2.03	0.40
14:6:23:LEU:HD11	14:6:94:LEU:HD12	2.03	0.40
1:A:153:LYS:HA	1:A:156:MET:HB2	2.03	0.40
1:A:375:ILE:CG2	1:A:377:LEU:HD12	2.52	0.40
2:B:218:PHE:H	2:B:365:VAL:HG11	1.86	0.40
2:B:490:ILE:HG12	2:B:494:THR:HG21	2.04	0.40
3:C:20:ARG:CZ	3:C:115:GLN:HE21	2.35	0.40
3:C:195:ILE:HG12	3:C:198:TYR:CE2	2.57	0.40
3:C:239:VAL:O	3:C:291:ILE:N	2.54	0.40
3:C:423:THR:O	3:C:426:SER:HB2	2.22	0.40
3:C:462:LEU:HB3	3:C:487:LEU:HD11	2.02	0.40
4:D:476:THR:HG23	4:D:500:ILE:CG1	2.51	0.40
4:D:480:LEU:HA	4:D:483:ARG:CG	2.51	0.40
5:E:258:PRO:CD	7:G:263:TYR:HB3	2.52	0.40
5:E:492:ASP:CG	5:E:499:ASN:HD22	2.25	0.40
5:E:541:GLU:CB	7:G:54:GLY:HA2	2.51	0.40
6:F:44:MET:CG	6:F:58:LYS:HE3	2.51	0.40
6:F:301:SER:O	6:F:305:LEU:HD13	2.21	0.40
7:G:232:TYR:CB	7:G:348:PHE:HB3	2.39	0.40
7:G:294:PRO:HB3	7:G:313:ARG:HH11	1.86	0.40
7:G:391:ASP:O	7:G:395:ILE:HB	2.22	0.40
8:H:164:LEU:HD13	8:H:183:ILE:HB	2.03	0.40
8:H:169:MET:HA	8:H:173:TYR:HA	2.03	0.40
1:I:90:THR:O	1:I:94:VAL:HG23	2.22	0.40
1:I:96:ILE:HD13	1:I:445:LEU:HA	2.03	0.40
1:I:132:ILE:HG23	1:I:409:VAL:CG1	2.51	0.40
1:I:241:LEU:HD21	1:I:274:ARG:HG2	2.03	0.40
1:I:531:ILE:CG1	4:L:77:ILE:HG23	2.52	0.40
3:K:155:ILE:HD11	3:K:401:VAL:HB	2.04	0.40
3:K:159:SER:HA	3:K:162:THR:HG23	2.03	0.40
3:K:324:ALA:HA	3:K:327:CYS:SG	2.62	0.40
4:L:221:CYS:SG	4:L:391:ARG:N	2.78	0.40
5:M:254:PRO:HD3	7:O:267:VAL:HG11	2.03	0.40
5:M:254:PRO:HG2	7:O:264:GLN:OE1	2.20	0.40
5:M:379:ASN:ND2	5:M:381:ARG:HE	2.19	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:454:ALA:O	5:M:457:VAL:HG12	2.21	0.40
6:N:37:ASN:HD21	6:N:45:LYS:HB2	1.86	0.40
6:N:49:SER:HA	6:N:67:MET:HG3	2.04	0.40
6:N:192:GLU:HG3	6:N:373:THR:HG23	2.03	0.40
6:N:233:CYS:HB3	6:N:336:PHE:CD1	2.57	0.40
7:O:218:LYS:CB	7:O:315:PRO:HD3	2.45	0.40
8:P:222:VAL:HA	8:P:362:VAL:HA	2.03	0.40
8:P:235:LYS:HA	8:P:235:LYS:HD2	1.91	0.40
8:P:286:THR:HB	8:P:344:MET:HE1	2.03	0.40
11:3:112:TYR:HD2	13:5:83:LEU:HD22	1.82	0.40
1:A:118:ILE:HA	1:A:121:TYR:HB2	2.02	0.40
2:B:38:LEU:HD22	2:B:50:LYS:HD3	2.03	0.40
2:B:136:ALA:HB2	2:B:424:LEU:HD22	2.04	0.40
2:B:141:LEU:HD21	2:B:501:ARG:CA	2.51	0.40
2:B:250:LYS:HB3	2:B:335:PHE:HD2	1.87	0.40
2:B:279:VAL:HG11	2:B:303:LEU:HB3	2.04	0.40
2:B:412:CYS:SG	2:B:488:MET:HG3	2.62	0.40
3:C:36:ILE:HD12	3:C:36:ILE:HA	1.85	0.40
3:C:208:ILE:HD12	3:C:208:ILE:HA	1.84	0.40
3:C:239:VAL:HB	3:C:290:VAL:HG22	2.04	0.40
3:C:258:ILE:HG22	3:C:263:ASP:O	2.21	0.40
4:D:250:GLN:HA	4:D:306:ARG:HH22	1.85	0.40
4:D:496:ARG:HE	4:D:506:GLU:CG	2.31	0.40
5:E:31:LEU:O	5:E:35:LYS:HG2	2.20	0.40
5:E:74:GLY:CA	5:E:77:ILE:HG22	2.52	0.40
5:E:116:LEU:HD12	5:E:119:GLU:HB2	2.03	0.40
5:E:138:GLU:OE2	5:E:525:ARG:HB3	2.21	0.40
5:E:251:LEU:CD1	5:E:255:PHE:HB2	2.51	0.40
5:E:305:GLY:HA2	5:E:324:TRP:N	2.37	0.40
5:E:358:LEU:N	5:E:375:GLU:O	2.52	0.40
6:F:145:ARG:HG3	6:F:173:VAL:HG21	2.03	0.40
6:F:190:MET:HA	6:F:372:VAL:N	2.28	0.40
6:F:434:GLN:HE21	6:F:438:GLN:CG	2.28	0.40
6:F:515:ILE:HA	6:F:518:VAL:HG13	2.03	0.40
7:G:125:PHE:HB3	7:G:507:SER:OG	2.21	0.40
7:G:189:LEU:O	7:G:397:ARG:NE	2.55	0.40
7:G:233:HIS:ND1	7:G:233:HIS:O	2.54	0.40
7:G:331:GLN:NE2	7:G:342:LEU:HD23	2.36	0.40
7:G:352:GLN:HG3	7:G:356:GLU:O	2.21	0.40
8:H:356:GLY:HA2	8:H:378:ARG:CZ	2.51	0.40
1:I:77:GLU:HA	1:I:80:ASP:HB2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:112:ILE:HD12	1:I:433:ARG:HE	1.86	0.40
1:I:179:ILE:HD13	1:I:214:TYR:OH	2.21	0.40
1:I:468:ARG:HA	1:I:471:HIS:CB	2.51	0.40
2:J:31:GLY:O	2:J:35:ILE:HG12	2.21	0.40
2:J:449:ILE:O	2:J:453:ASN:ND2	2.55	0.40
5:M:246:ALA:HA	5:M:356:ALA:N	2.36	0.40
5:M:445:GLN:O	5:M:449:ARG:HG3	2.21	0.40
6:N:375:LEU:HG	6:N:377:LYS:HZ1	1.87	0.40
7:O:237:ILE:HB	7:O:343:GLY:HA3	2.02	0.40
9:1:51:ILE:HG12	9:1:60:MET:CG	2.51	0.40
10:2:87:LEU:HB3	10:2:88:PRO:HD3	2.03	0.40
11:3:99:ASN:ND2	13:5:72:VAL:HG21	2.37	0.40
11:3:112:TYR:CE2	13:5:83:LEU:HD22	2.56	0.40
12:4:88:GLU:HA	12:4:91:LYS:HD2	2.04	0.40
13:5:123:GLU:HA	13:5:126:ALA:HB3	2.04	0.40
1:A:198:LEU:O	1:A:376:ILE:HA	2.21	0.40
2:B:46:LYS:HE3	2:B:454:ALA:HA	2.04	0.40
2:B:356:GLU:HG3	2:B:357:ASP:OD1	2.22	0.40
2:B:406:THR:HA	2:B:496:SER:HA	2.04	0.40
3:C:183:VAL:HB	3:C:198:TYR:HB2	2.02	0.40
3:C:185:PHE:C	3:C:193:ILE:HG22	2.42	0.40
3:C:446:VAL:HA	3:C:449:ARG:HE	1.87	0.40
4:D:55:LYS:HB3	4:D:469:ALA:HA	2.03	0.40
4:D:199:THR:C	4:D:201:THR:H	2.25	0.40
4:D:204:ASP:HA	4:D:413:ARG:NE	2.35	0.40
4:D:235:ASN:ND2	4:D:314:LEU:HG	2.36	0.40
4:D:438:GLU:HA	4:D:441:ARG:HH11	1.86	0.40
4:D:460:VAL:HA	5:M:126:ARG:HH22	1.85	0.40
5:E:453:ASP:O	5:E:456:GLU:HB2	2.21	0.40
6:F:29:GLY:HA2	6:F:32:ASP:HB2	2.02	0.40
6:F:105:GLN:NE2	6:F:442:ASP:OD2	2.54	0.40
6:F:233:CYS:N	6:F:292:ILE:O	2.38	0.40
7:G:156:GLU:O	7:G:159:ALA:N	2.54	0.40
7:G:215:ALA:HB1	7:G:358:TYR:CE2	2.57	0.40
7:G:299:ALA:HA	7:G:302:TYR:CD2	2.57	0.40
7:G:410:GLY:HA2	7:G:413:GLU:CG	2.52	0.40
7:G:449:LEU:HD12	7:G:477:VAL:HG13	2.03	0.40
8:H:242:TYR:HB2	8:H:245:PRO:HG3	2.04	0.40
8:H:299:ASP:HA	8:H:302:LEU:HB3	2.03	0.40
1:I:237:LEU:CD2	1:I:344:MET:HE1	2.44	0.40
1:I:260:LEU:HB3	3:K:246:GLU:OE2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:278:ILE:HG22	1:I:283:ALA:HB3	2.02	0.40
2:J:182:LEU:HD11	2:J:199:ILE:HG22	2.03	0.40
2:J:252:PHE:HE1	5:M:275:LYS:HE3	1.85	0.40
2:J:461:LEU:O	2:J:465:LEU:N	2.54	0.40
3:K:141:SER:OG	3:K:408:VAL:HG12	2.22	0.40
3:K:155:ILE:HG22	3:K:496:TRP:CE2	2.56	0.40
3:K:204:ILE:HD12	3:K:360:PHE:CG	2.57	0.40
3:K:223:ASP:O	3:K:310:THR:OG1	2.39	0.40
3:K:445:GLU:C	3:K:448:PRO:HD2	2.42	0.40
4:L:123:LEU:HA	4:L:126:LYS:HB3	2.02	0.40
5:M:94:LEU:HD22	5:M:523:MET:SD	2.61	0.40
5:M:306:PHE:CD2	5:M:314:LEU:HD22	2.56	0.40
5:M:489:LEU:C	5:M:501:MET:H	2.25	0.40
6:N:394:GLY:HA2	6:N:397:ALA:HB3	2.04	0.40
6:N:424:LYS:CG	6:N:434:GLN:HG3	2.52	0.40
7:O:406:VAL:HG22	7:O:496:ALA:HA	2.04	0.40
7:O:431:GLN:O	7:O:434:LEU:N	2.54	0.40
8:P:26:GLU:HA	8:P:30:TYR:HB2	2.03	0.40
8:P:39:LEU:HG	8:P:73:LEU:HD22	2.03	0.40
8:P:221:MET:HB3	8:P:363:PHE:HD2	1.86	0.40
8:P:242:TYR:HE1	8:P:333:LEU:HD22	1.85	0.40
8:P:347:CYS:SG	8:P:365:HIS:CE1	3.15	0.40
11:3:98:THR:O	11:3:119:PRO:HD2	2.22	0.40
12:4:25:LYS:C	12:4:115:LEU:HD13	2.42	0.40
13:5:79:VAL:HG23	13:5:80:GLU:N	2.36	0.40
13:5:94:LYS:HB2	13:5:99:ALA:HB2	2.04	0.40
13:5:131:VAL:O	13:5:135:MET:N	2.47	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	519/534 (97%)	451 (87%)	66 (13%)	2 (0%)	34	72
1	I	532/534 (100%)	482 (91%)	49 (9%)	1 (0%)	47	81
2	B	507/509 (100%)	461 (91%)	45 (9%)	1 (0%)	47	81
2	J	506/509 (99%)	456 (90%)	46 (9%)	4 (1%)	19	60
3	C	507/513 (99%)	436 (86%)	68 (13%)	3 (1%)	25	66
3	K	509/513 (99%)	455 (89%)	53 (10%)	1 (0%)	47	81
4	D	506/514 (98%)	453 (90%)	50 (10%)	3 (1%)	25	66
4	L	511/514 (99%)	458 (90%)	51 (10%)	2 (0%)	34	72
5	E	515/517 (100%)	454 (88%)	57 (11%)	4 (1%)	19	60
5	M	515/517 (100%)	466 (90%)	47 (9%)	2 (0%)	34	72
6	F	512/515 (99%)	451 (88%)	60 (12%)	1 (0%)	47	81
6	N	511/515 (99%)	463 (91%)	46 (9%)	2 (0%)	34	72
7	G	510/514 (99%)	442 (87%)	65 (13%)	3 (1%)	25	66
7	O	510/514 (99%)	465 (91%)	45 (9%)	0	100	100
8	H	508/514 (99%)	444 (87%)	61 (12%)	3 (1%)	25	66
8	P	507/514 (99%)	458 (90%)	47 (9%)	2 (0%)	34	72
9	1	105/107 (98%)	99 (94%)	6 (6%)	0	100	100
10	2	101/103 (98%)	99 (98%)	2 (2%)	0	100	100
11	3	130/132 (98%)	119 (92%)	10 (8%)	1 (1%)	19	60
12	4	102/104 (98%)	96 (94%)	5 (5%)	1 (1%)	15	55
13	5	125/127 (98%)	113 (90%)	12 (10%)	0	100	100
14	6	100/102 (98%)	93 (93%)	7 (7%)	0	100	100
All	All	8848/8935 (99%)	7914 (89%)	898 (10%)	36 (0%)	38	72

All (36) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
5	E	441	PRO
8	P	473	GLU
11	3	137	ILE
3	C	370	LYS
1	I	408	VAL
1	A	110	GLN
3	C	244	SER
4	D	471	LEU

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Mol	Chain	Res	Type
5	E	297	ALA
8	H	478	VAL
8	H	485	GLU
2	J	209	LEU
4	L	307	ASP
2	B	190	LEU
4	D	178	GLN
7	G	168	ILE
2	J	226	VAL
1	A	177	LEU
2	J	466	ARG
3	K	470	HIS
12	4	62	ASP
7	G	121	ILE
6	N	429	VAL
6	N	427	PRO
5	E	507	ILE
7	G	117	HIS
5	M	151	ILE
5	M	177	VAL
8	P	360	VAL
8	H	97	VAL
4	D	203	VAL
5	E	260	PRO
6	F	429	VAL
4	L	54	PRO
3	C	368	ASP
2	J	127	ILE

5.3.2 Protein sidechains ⓘ

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	434/445 (98%)	433 (100%)	1 (0%)	93	96
1	I	445/445 (100%)	443 (100%)	2 (0%)	91	94
2	B	405/405 (100%)	404 (100%)	1 (0%)	93	96

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	J	405/405 (100%)	405 (100%)	0	100	100
3	C	441/444 (99%)	438 (99%)	3 (1%)	84	90
3	K	444/444 (100%)	441 (99%)	3 (1%)	84	90
4	D	433/439 (99%)	433 (100%)	0	100	100
4	L	438/439 (100%)	436 (100%)	2 (0%)	88	93
5	E	436/436 (100%)	433 (99%)	3 (1%)	84	90
5	M	436/436 (100%)	435 (100%)	1 (0%)	93	96
6	F	429/429 (100%)	429 (100%)	0	100	100
6	N	429/429 (100%)	429 (100%)	0	100	100
7	G	420/421 (100%)	419 (100%)	1 (0%)	93	96
7	O	421/421 (100%)	420 (100%)	1 (0%)	93	96
8	H	423/426 (99%)	422 (100%)	1 (0%)	93	96
8	P	422/426 (99%)	421 (100%)	1 (0%)	93	96
9	1	97/97 (100%)	97 (100%)	0	100	100
10	2	91/91 (100%)	91 (100%)	0	100	100
11	3	122/122 (100%)	122 (100%)	0	100	100
12	4	96/96 (100%)	95 (99%)	1 (1%)	76	86
13	5	116/116 (100%)	116 (100%)	0	100	100
14	6	91/91 (100%)	91 (100%)	0	100	100
All	All	7474/7503 (100%)	7453 (100%)	21 (0%)	92	95

All (21) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	486	ILE
2	B	360	ILE
3	C	99	ILE
3	C	291	ILE
3	C	407	LEU
5	E	385	ILE
5	E	507	ILE
5	E	533	ILE
7	G	479	ILE
8	H	202	ILE
1	I	234	ILE

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Mol	Chain	Res	Type
1	I	527	ILE
3	K	156	ILE
3	K	296	ILE
3	K	363	ILE
4	L	195	ILE
4	L	503	ILE
5	M	38	ILE
7	O	479	ILE
8	P	417	ILE
12	4	57	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (142) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	82	GLN
1	A	135	ASN
1	A	223	GLN
1	A	242	GLN
1	A	251	GLN
1	A	347	GLN
1	A	353	GLN
1	A	475	GLN
1	A	498	ASN
2	B	91	GLN
2	B	178	HIS
2	B	200	HIS
2	B	228	GLN
2	B	234	ASN
2	B	285	HIS
2	B	380	GLN
2	B	498	GLN
3	C	61	ASN
3	C	64	ASN
3	C	74	HIS
3	C	115	GLN
3	C	253	GLN
3	C	474	ASN
4	D	138	GLN
4	D	296	ASN
4	D	315	HIS
4	D	366	ASN
5	E	72	ASN

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Mol	Chain	Res	Type
5	E	129	HIS
5	E	391	ASN
5	E	469	ASN
5	E	481	GLN
5	E	499	ASN
5	E	504	GLN
6	F	37	ASN
6	F	380	ASN
6	F	454	ASN
6	F	470	HIS
6	F	506	HIS
7	G	107	GLN
7	G	241	ASN
7	G	264	GLN
7	G	301	GLN
7	G	346	GLN
7	G	448	GLN
7	G	452	ASN
7	G	501	ASN
8	H	50	ASN
8	H	67	ASN
8	H	80	HIS
8	H	140	HIS
8	H	196	HIS
8	H	289	ASN
8	H	472	GLN
8	H	523	GLN
1	I	20	GLN
1	I	135	ASN
1	I	393	HIS
1	I	472	ASN
2	J	73	ASN
2	J	122	HIS
2	J	124	GLN
2	J	157	GLN
2	J	298	ASN
2	J	314	HIS
2	J	381	GLN
2	J	399	GLN
2	J	453	ASN
2	J	469	HIS
3	K	13	ASN

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Mol	Chain	Res	Type
3	K	118	HIS
3	K	235	ASN
3	K	302	HIS
3	K	434	GLN
3	K	470	HIS
3	K	504	GLN
4	L	37	ASN
4	L	80	GLN
4	L	85	HIS
4	L	129	HIS
4	L	138	GLN
4	L	285	ASN
4	L	315	HIS
4	L	318	ASN
4	L	482	ASN
4	L	510	GLN
4	L	537	ASN
5	M	55	ASN
5	M	86	GLN
5	M	182	HIS
5	M	236	HIS
5	M	379	ASN
5	M	391	ASN
5	M	499	ASN
5	M	515	GLN
5	M	516	GLN
6	N	65	HIS
6	N	105	GLN
6	N	198	HIS
6	N	234	ASN
6	N	293	ASN
6	N	294	GLN
6	N	367	ASN
6	N	368	ASN
6	N	400	ASN
6	N	506	HIS
7	O	30	GLN
7	O	60	ASN
7	O	86	GLN
7	O	107	GLN
7	O	228	GLN
7	O	258	HIS

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Mol	Chain	Res	Type
7	O	331	GLN
7	O	359	ASN
7	O	431	GLN
7	O	522	ASN
8	P	50	ASN
8	P	53	ASN
8	P	58	ASN
8	P	279	GLN
8	P	316	ASN
8	P	346	HIS
8	P	471	HIS
8	P	472	GLN
8	P	513	ASN
9	1	25	GLN
9	1	38	ASN
9	1	111	ASN
10	2	31	ASN
10	2	35	GLN
10	2	37	GLN
10	2	52	ASN
10	2	54	HIS
10	2	116	ASN
11	3	168	GLN
12	4	21	GLN
12	4	24	ASN
12	4	48	GLN
13	5	40	GLN
14	6	40	ASN
14	6	41	ASN
14	6	67	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
3	K	1
7	O	1
5	E	1
3	C	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	K	188:ASN	C	189:GLY	N	4.89
1	O	258:HIS	C	259:THR	N	3.48
1	E	258:PRO	C	259:LYS	N	1.19
1	C	404:ASP	C	405:PRO	N	1.13

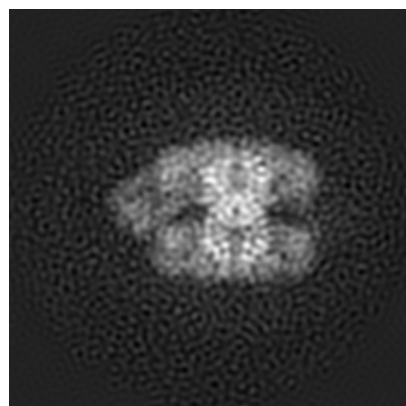
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-0491. These allow visual inspection of the internal detail of the map and identification of artifacts.

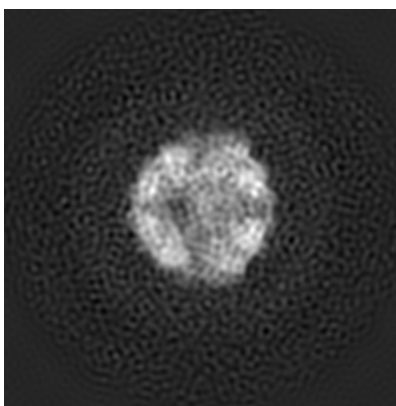
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

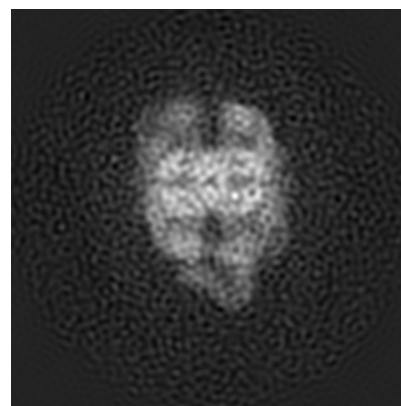
6.1.1 Primary map



X

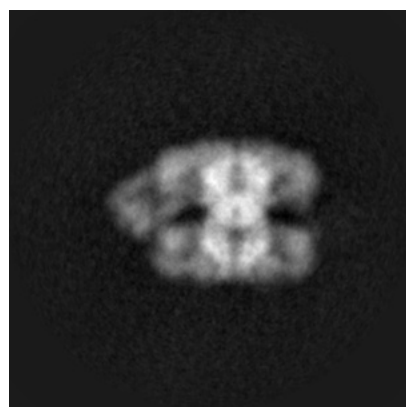


Y

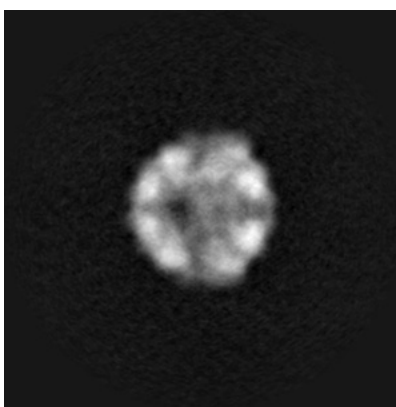


Z

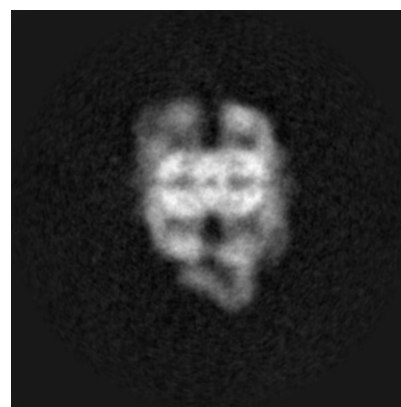
6.1.2 Raw map



X



Y

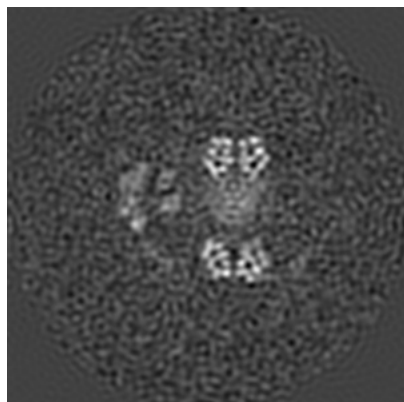


Z

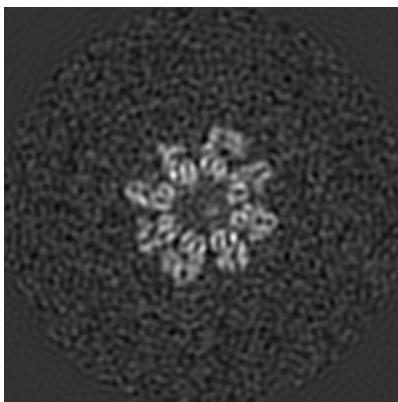
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

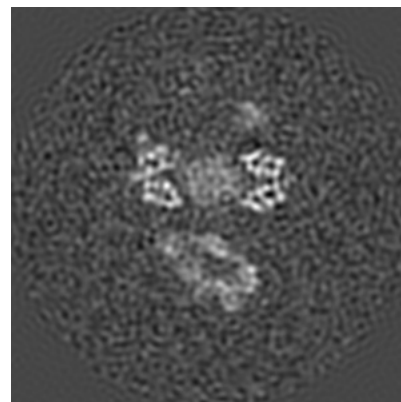
6.2.1 Primary map



X Index: 120

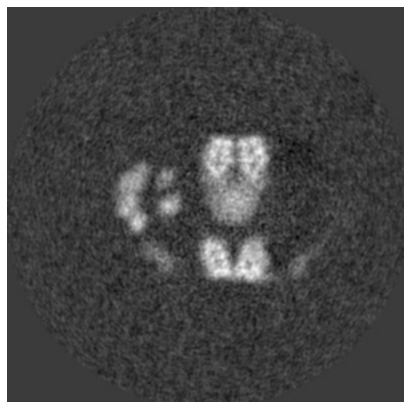


Y Index: 120

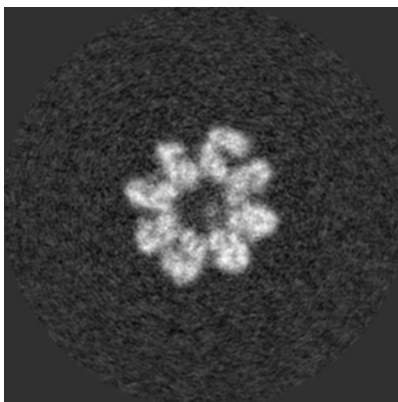


Z Index: 120

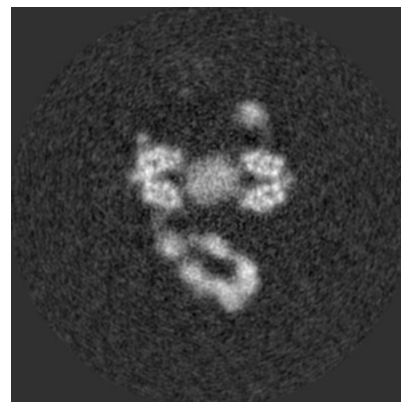
6.2.2 Raw map



X Index: 120



Y Index: 120

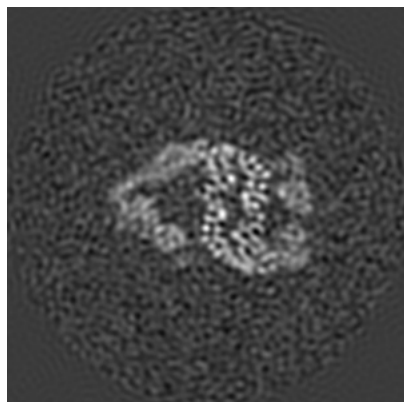


Z Index: 120

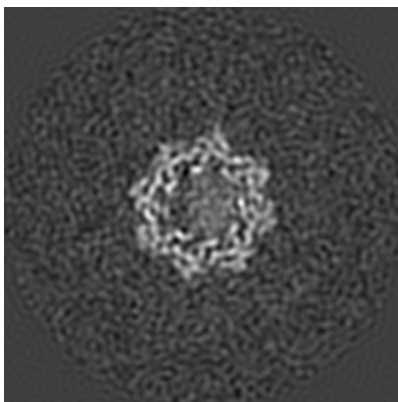
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

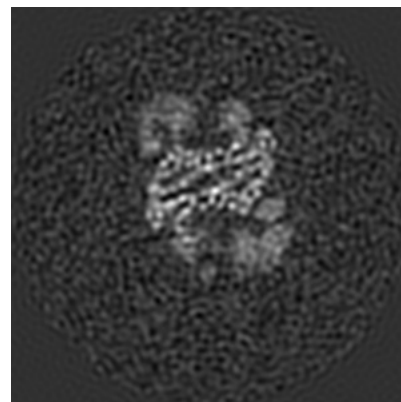
6.3.1 Primary map



X Index: 142

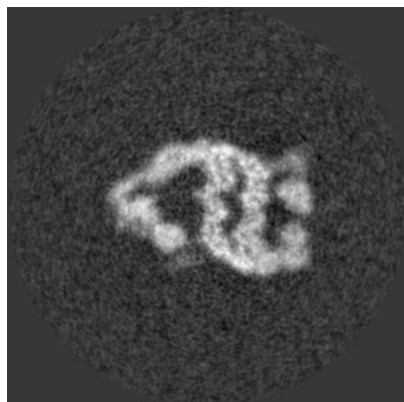


Y Index: 129

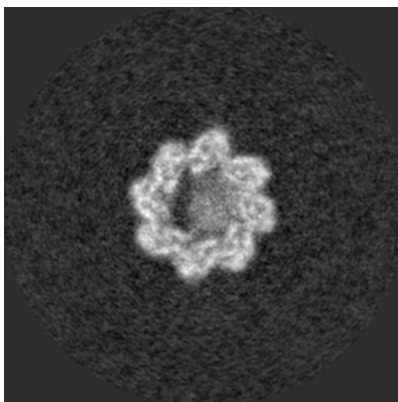


Z Index: 142

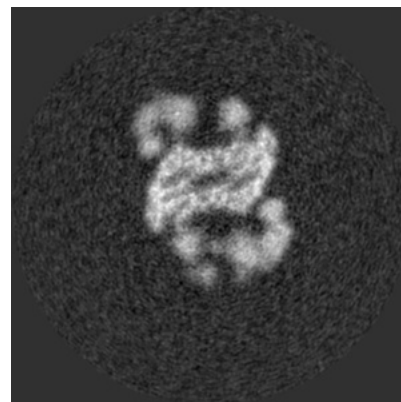
6.3.2 Raw map



X Index: 142



Y Index: 128



Z Index: 141

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

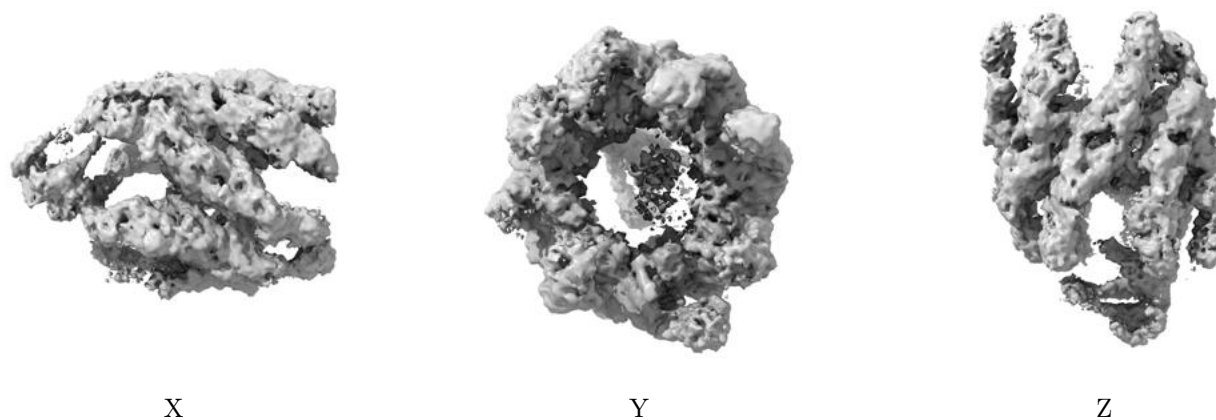
6.4 Orthogonal surface views [i](#)

6.4.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.6. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.4.2 Raw map



These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

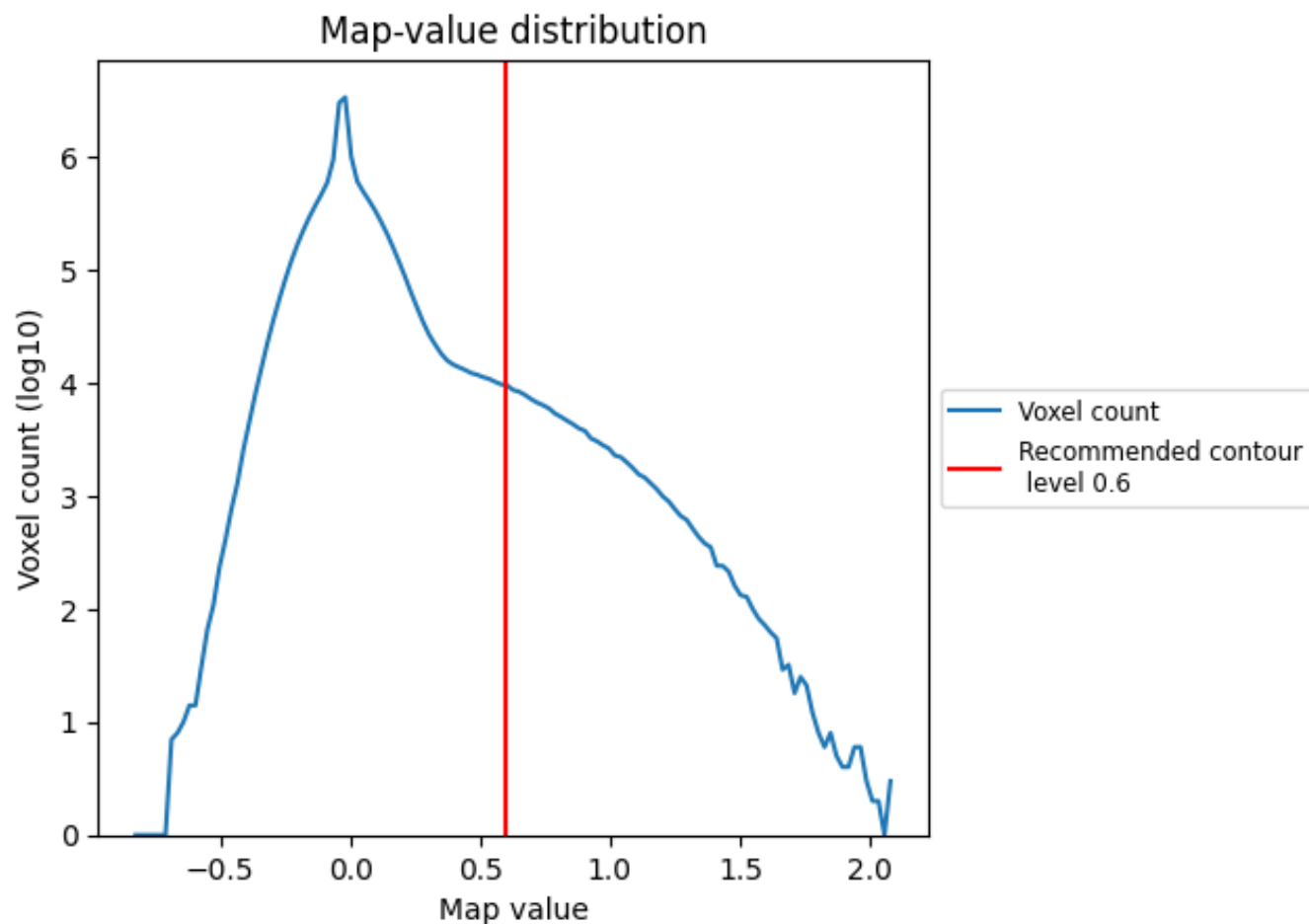
6.5 Mask visualisation [i](#)

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

7 Map analysis [i](#)

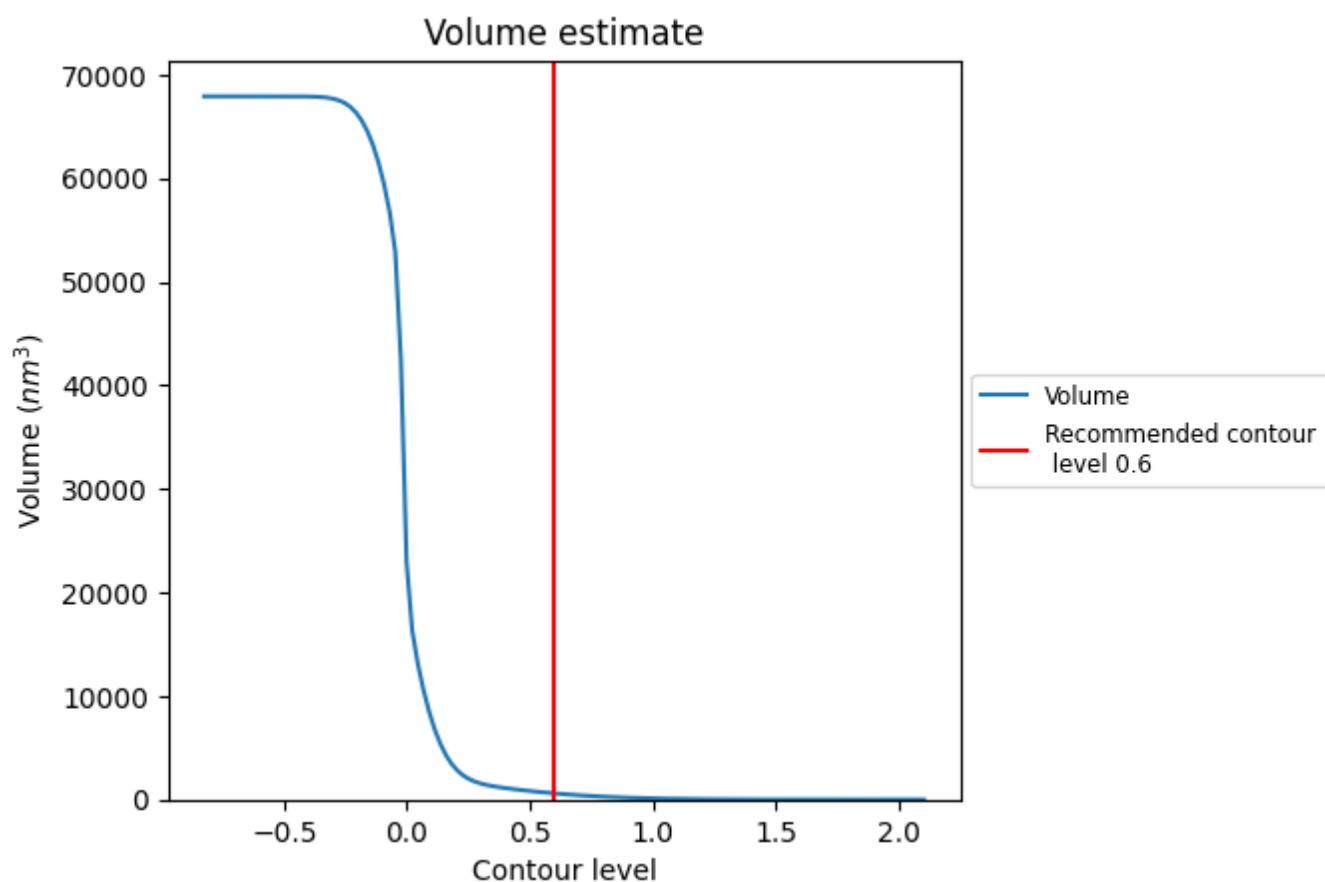
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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.

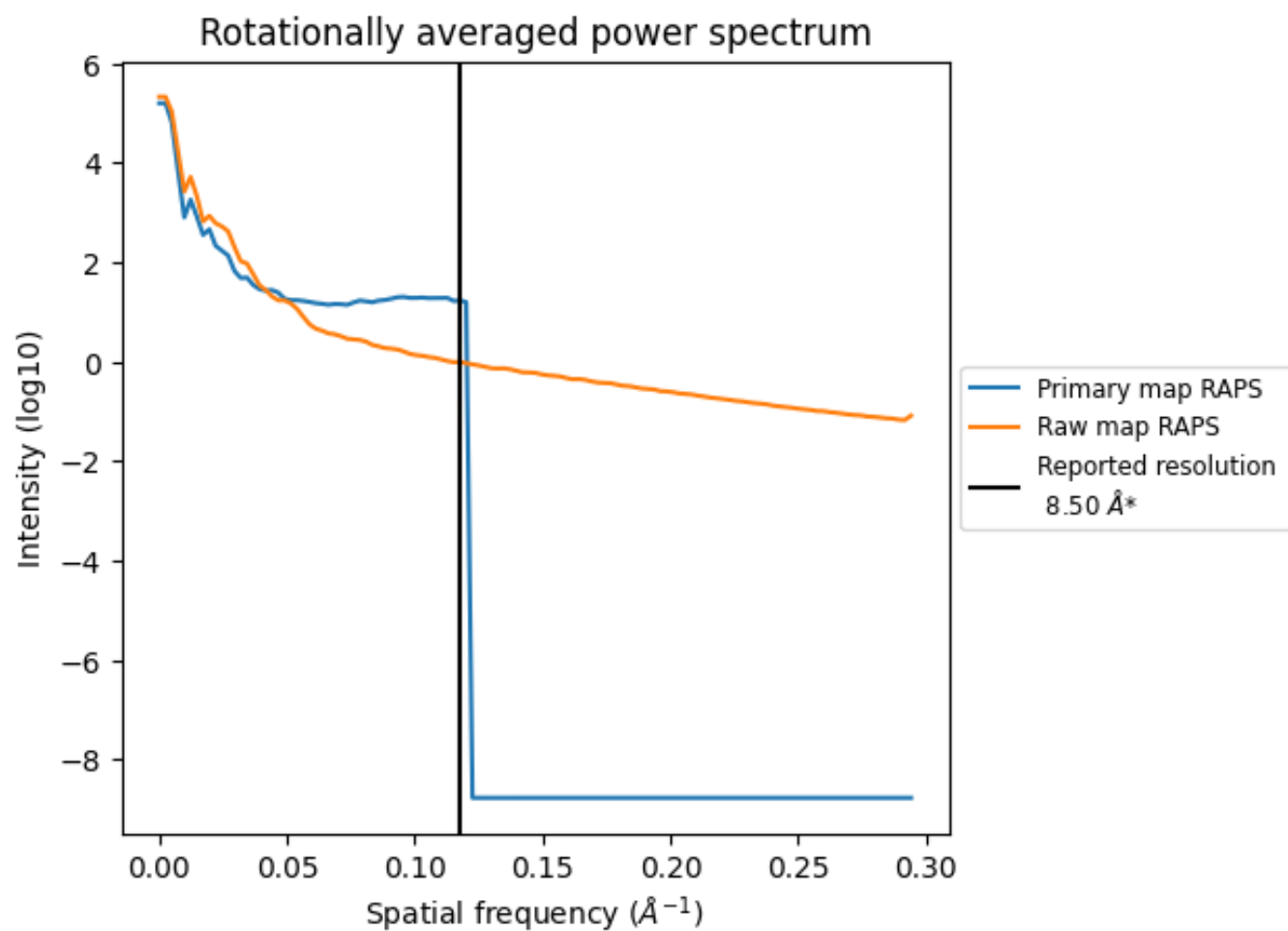
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 597 nm³; this corresponds to an approximate mass of 539 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 ⓘ

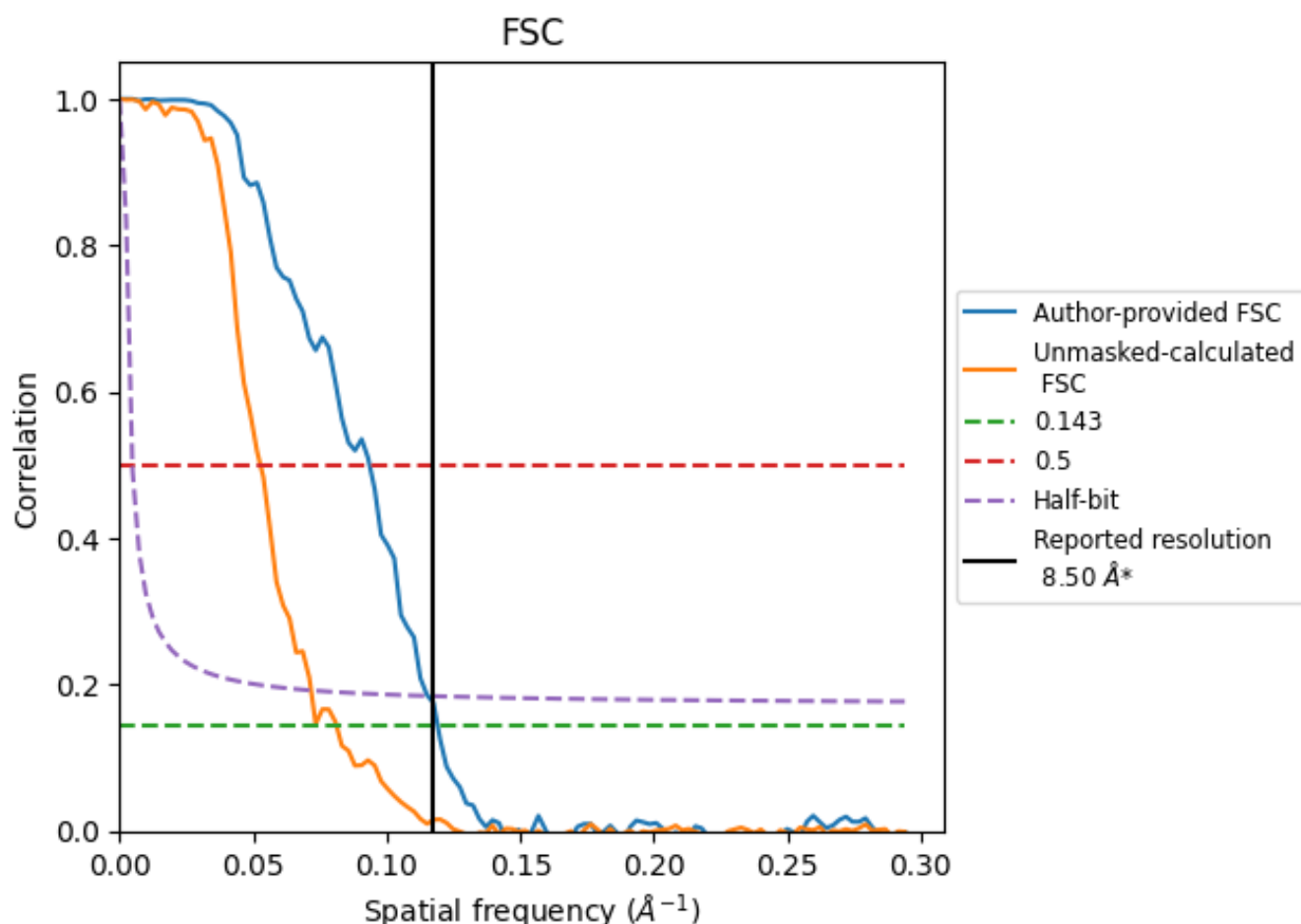


*Reported resolution corresponds to spatial frequency of 0.118 \AA^{-1}

8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.118 Å⁻¹

8.2 Resolution estimates [i](#)

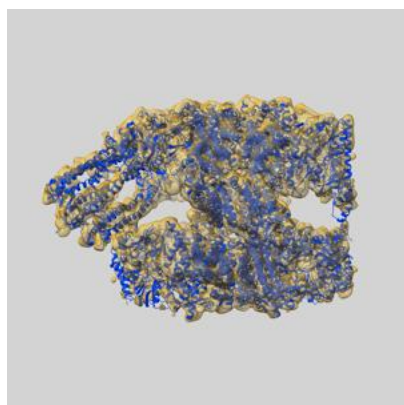
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	8.50	-	-
Author-provided FSC curve	8.39	10.67	8.66
Unmasked-calculated*	12.30	18.94	13.93

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 12.30 differs from the reported value 8.5 by more than 10 %

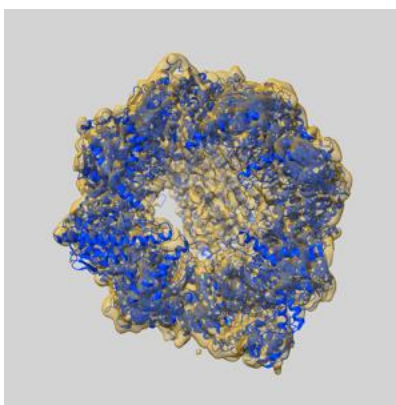
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-0491 and PDB model 6NR9. Per-residue inclusion information can be found in section [3](#) on page [7](#).

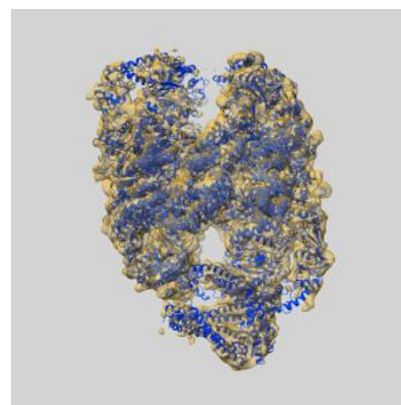
9.1 Map-model overlay [i](#)



X



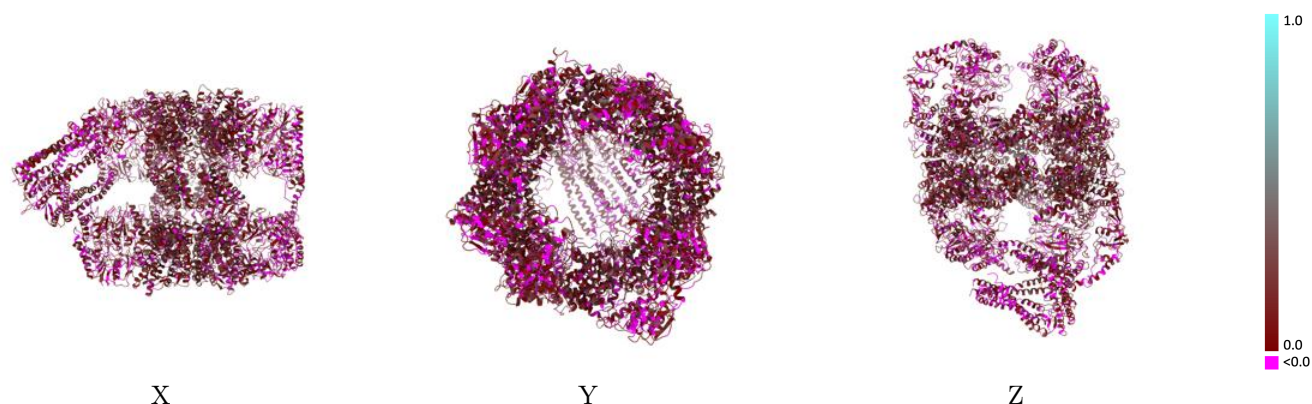
Y



Z

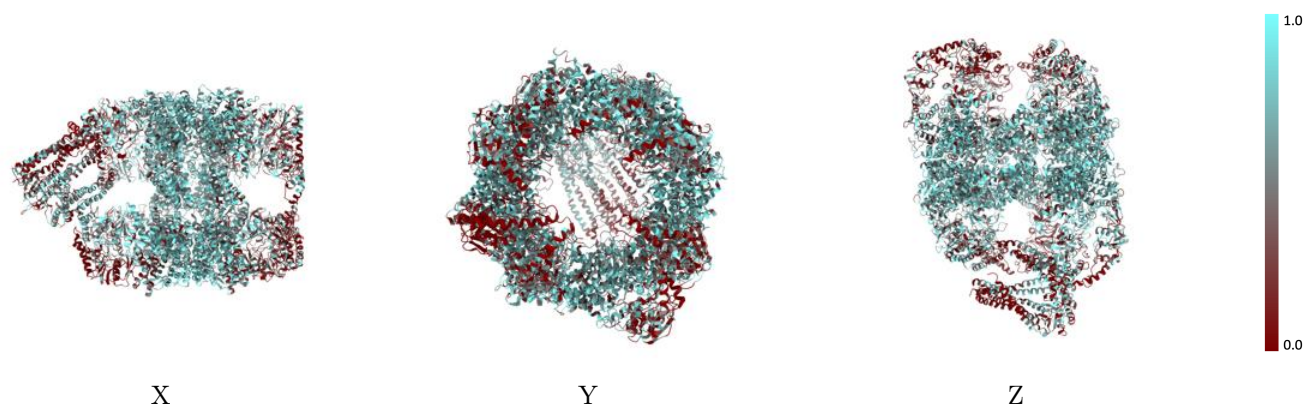
The images above show the 3D surface view of the map at the recommended contour level 0.6 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



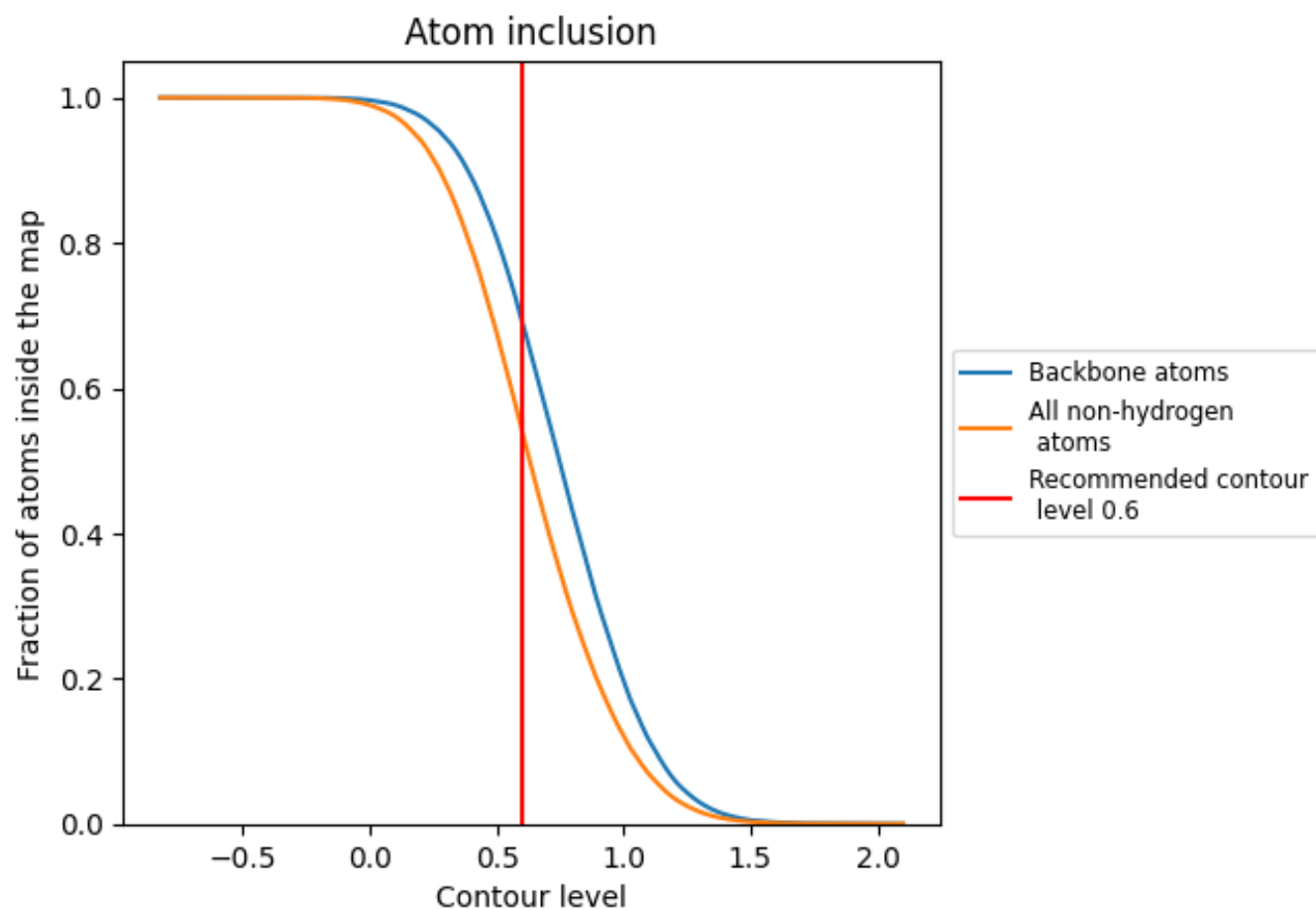
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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](#)



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 (0.6).















































9.4 Atom inclusion [i](#)



At the recommended contour level, 69% of all backbone atoms, 54% 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 (0.6) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.5407	 0.1110
1	 0.2928	 0.0670
2	 0.2319	 0.0350
3	 0.3234	 0.0480
4	 0.5520	 0.1020
5	 0.5237	 0.1050
6	 0.5167	 0.0990
A	 0.5772	 0.1250
B	 0.4457	 0.1120
C	 0.5899	 0.1200
D	 0.6848	 0.1440
E	 0.5820	 0.1150
F	 0.6239	 0.1200
G	 0.5653	 0.1150
H	 0.6368	 0.1290
I	 0.4848	 0.0940
J	 0.3949	 0.1030
K	 0.4823	 0.0930
L	 0.5210	 0.1090
M	 0.5550	 0.1110
N	 0.5657	 0.1110
O	 0.5313	 0.1070
P	 0.5967	 0.1130

