



Full wwPDB EM Validation Report ⓘ

Mar 10, 2026 – 02:30 AM UTC

PDB ID : 8TH8 / pdb_00008th8
EMDB ID : EMD-41251
Title : Linker domain of Nexin-dynein regulatory complex from *Tetrahymena thermophila*
Authors : Ghanaeian, A.G.; Bui, K.H.
Deposited on : 2023-07-14
Resolution : 7.40 Å(reported)

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

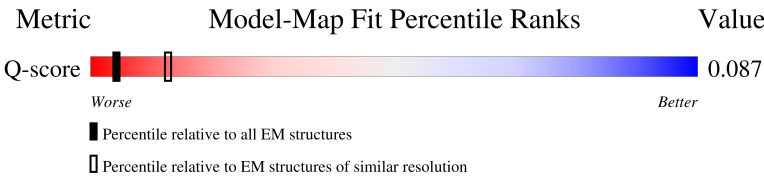
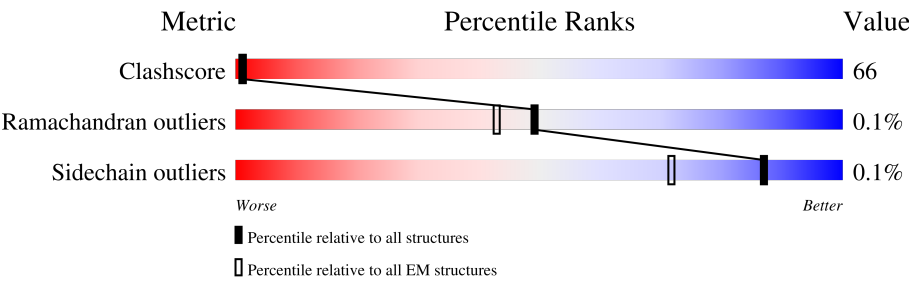
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDb archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

1 Overall quality at a glance i

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

The reported resolution of this entry is 7.40 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	412 (6.90 - 7.90)

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	826	11% 24% 65%
2	B	506	12% 15% 39% 45%
3	C	575	29% 63% 7%
4	D	472	10% 44% 18% 38%

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Mol	Chain	Length	Quality of chain
5	E	468	
6	F	461	
7	G	345	
8	H	852	
9	I	185	
9	i	185	
10	J	372	
11	K	434	
12	L	862	
13	P	794	
14	Q	202	
14	R	202	
15	S	187	
15	s	187	

2 Entry composition [i](#)

There are 15 unique types of molecules in this entry. The entry contains 58466 atoms, of which 5024 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 Dynein regulatory complex protein 1/2 N-terminal domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	290	Total	C	N	O	S	0	0
			2460	1524	439	483	14		

- Molecule 2 is a protein called Coiled-coil protein, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	276	Total	C	N	O	S	0	0
			2329	1451	421	447	10		

- Molecule 3 is a protein called LRRC48 protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C	533	Total	C	N	O	S	0	0
			4433	2771	760	890	12		

- Molecule 4 is a protein called Growth-arrest-specific microtubule-binding protein.

Mol	Chain	Residues	Atoms						AltConf	Trace
4	D	292	Total	C	H	N	O	S	0	0
			4976	1536	2515	435	482	8		

- Molecule 5 is a protein called Growth-arrest-specific microtubule-binding protein.

Mol	Chain	Residues	Atoms						AltConf	Trace
5	E	291	Total	C	H	N	O	S	0	0
			4952	1528	2509	430	478	7		

- Molecule 6 is a protein called Flagellar associated protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	F	461	Total	C	N	O	S	0	0
			3714	2351	632	714	17		

- Molecule 7 is a protein called Kinase domain protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	G	345	Total	C	N	O	S	0	0
			2780	1763	474	527	16		

- Molecule 8 is a protein called Coiled-coil lobo-like protein, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	H	820	Total	C	N	O	S	0	0
			6857	4318	1192	1314	33		

- Molecule 9 is a protein called EF-hand calcium-binding domain protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	I	185	Total	C	N	O	S	0	0
			1553	1002	244	301	6		
9	i	185	Total	C	N	O	S	0	0
			1553	1002	244	301	6		

- Molecule 10 is a protein called Dynein regulatory complex protein 9.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	J	372	Total	C	N	O	S	0	0
			3151	1949	574	620	8		

- Molecule 11 is a protein called Dynein regulatory complex protein 10.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	K	434	Total	C	N	O	S	0	0
			3588	2229	647	699	13		

- Molecule 12 is a protein called AAA family ATPase CDC48 subfamily protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	L	862	Total	C	N	O	S	0	0
			7102	4513	1213	1345	31		

- Molecule 13 is a protein called DUF4201 domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	P	305	Total	C	N	O	S	0	0
			2576	1624	442	502	8		

- Molecule 14 is a protein called Calmodulin 7-2.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	Q	202	Total	C	N	O	S	0	0
			1679	1061	276	338	4		
14	R	202	Total	C	N	O	S	0	0
			1679	1061	276	338	4		

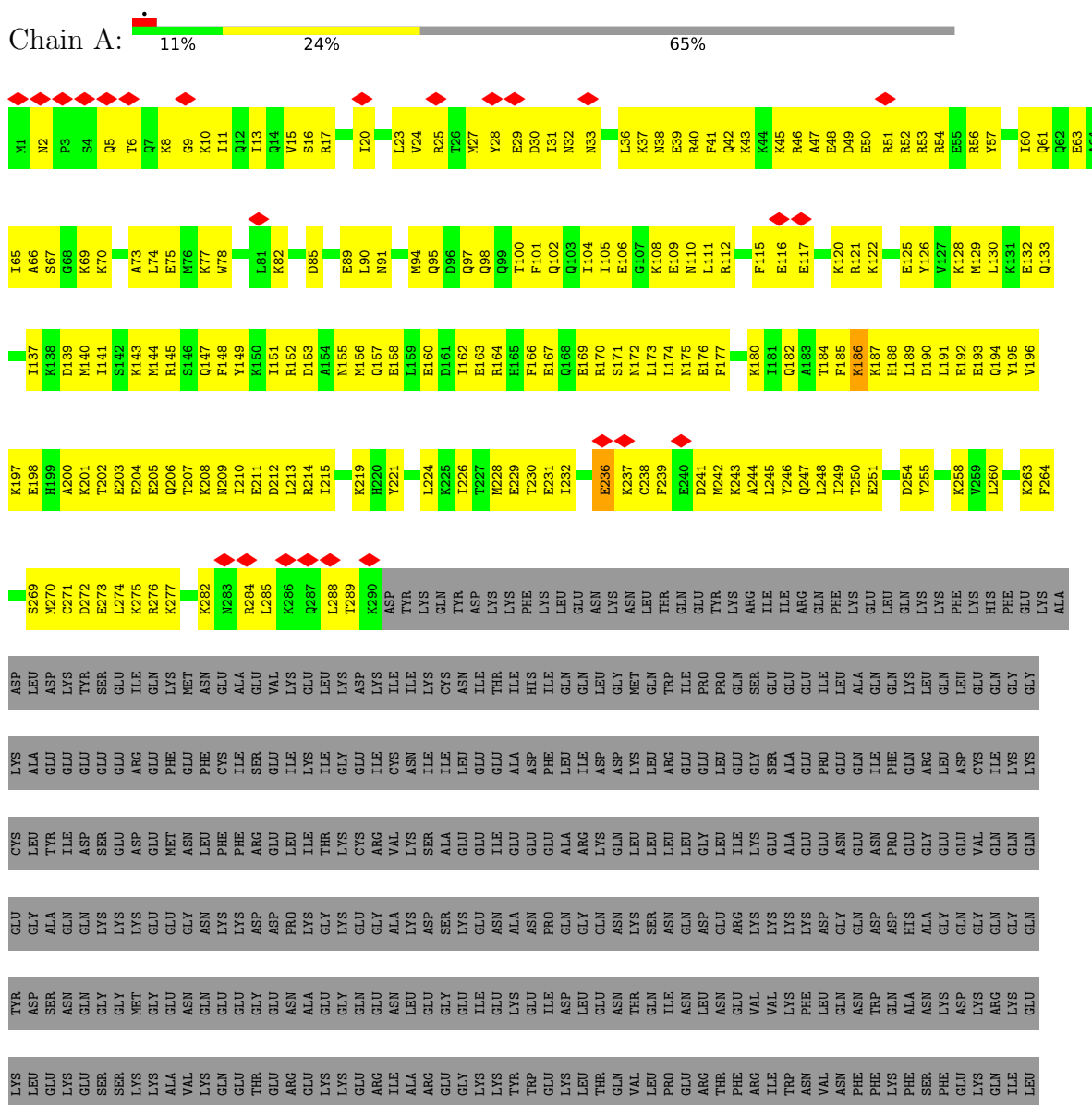
- Molecule 15 is a protein called Coiled-coil domain-containing protein 153.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	S	187	Total	C	N	O	S	0	0
			1542	943	274	314	11		
15	s	187	Total	C	N	O	S	0	0
			1542	943	274	314	11		

3 Residue-property plots

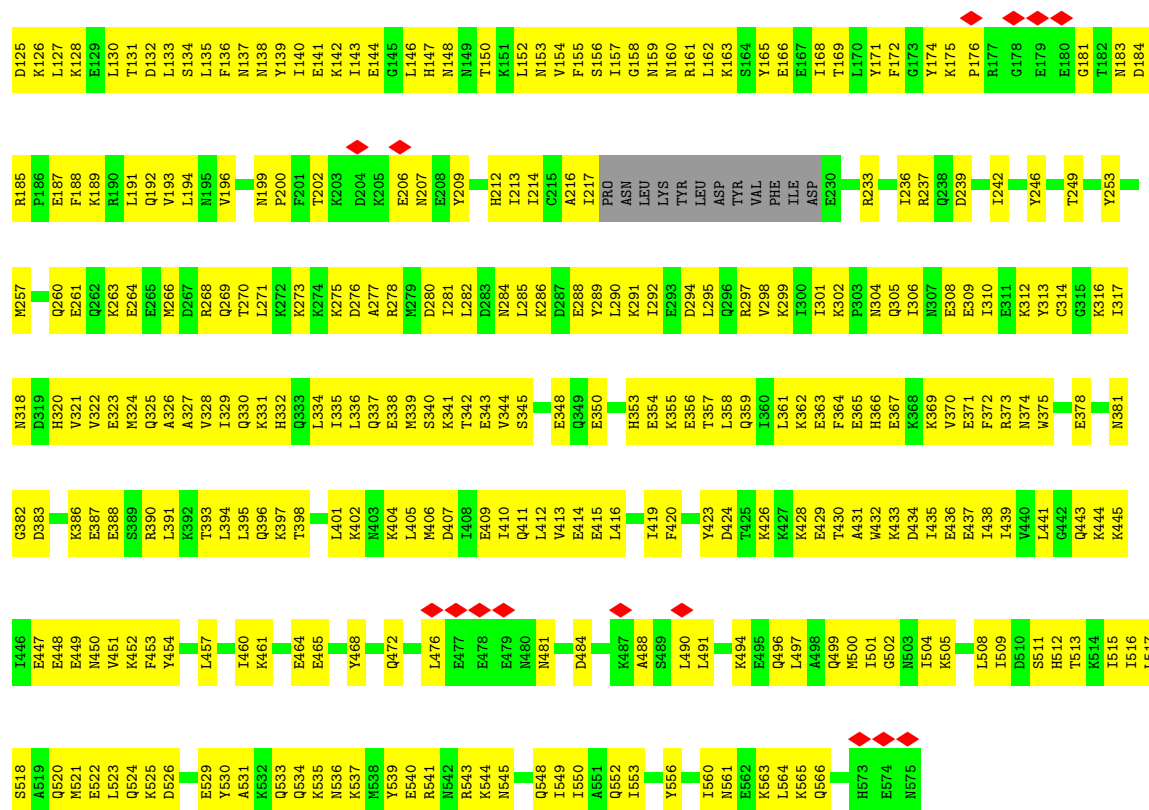
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion 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 sample, but not in the model, are shown in grey.

- Molecule 1: Dynein regulatory complex protein 1/2 N-terminal domain-containing protein

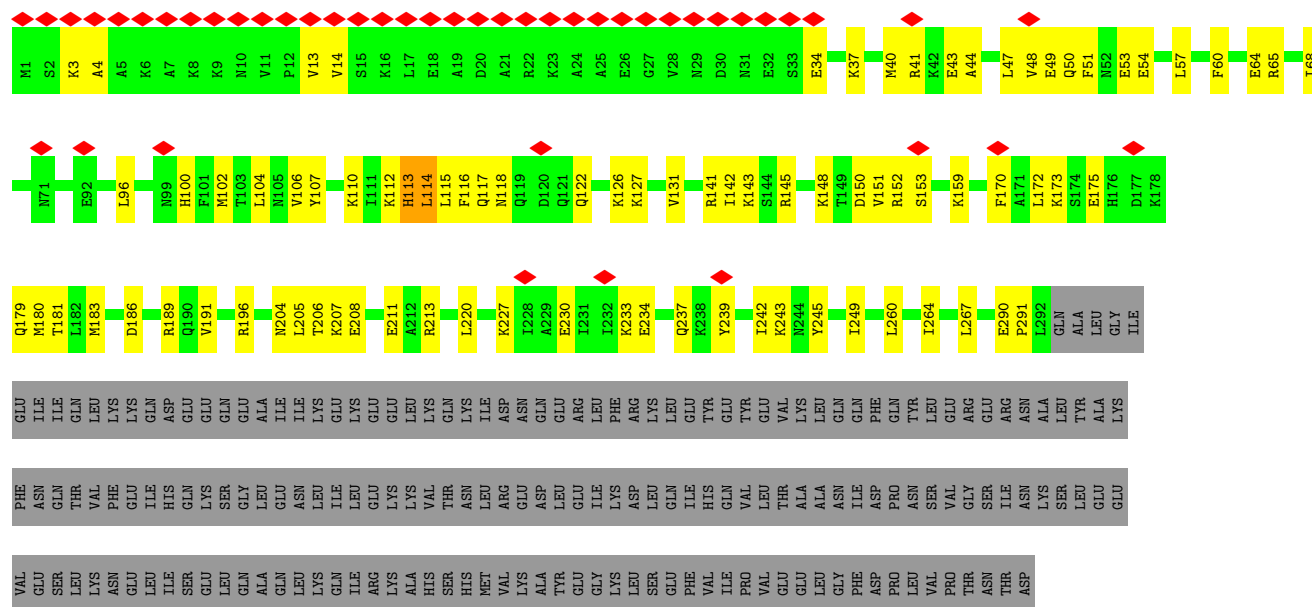
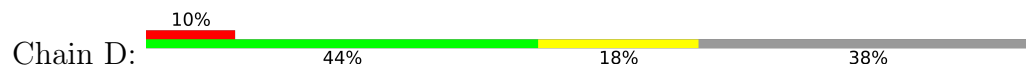


- Molecule 2: Coiled-coil protein, putative





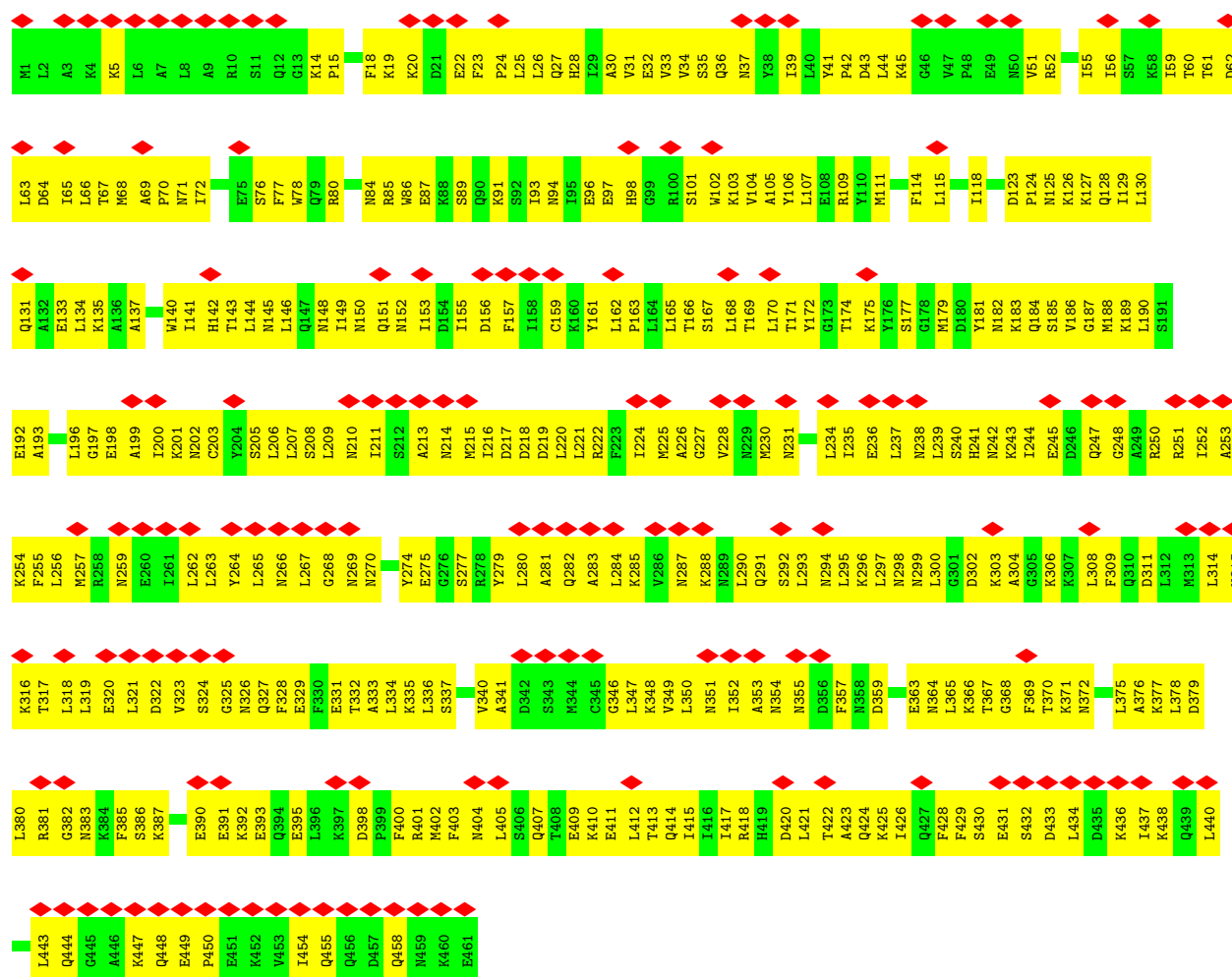
• Molecule 4: Growth-arrest-specific microtubule-binding protein



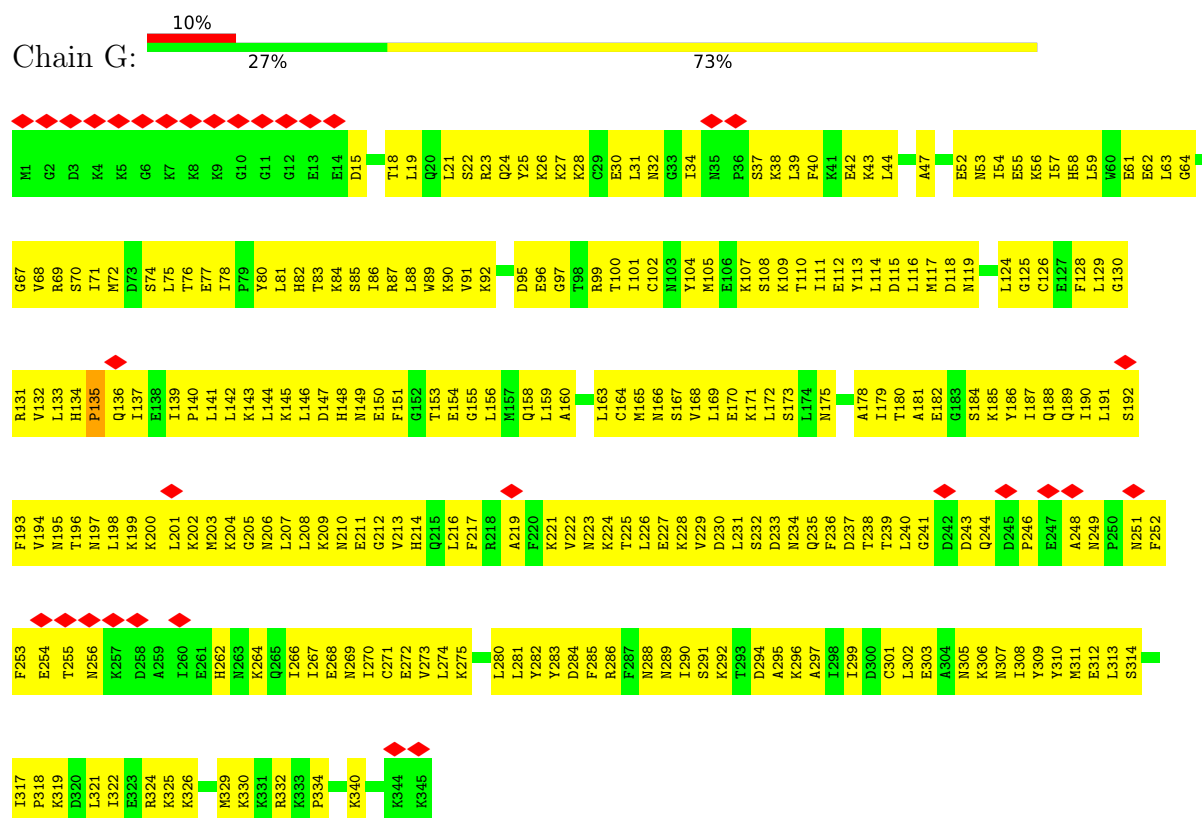
• Molecule 5: Growth-arrest-specific microtubule-binding protein

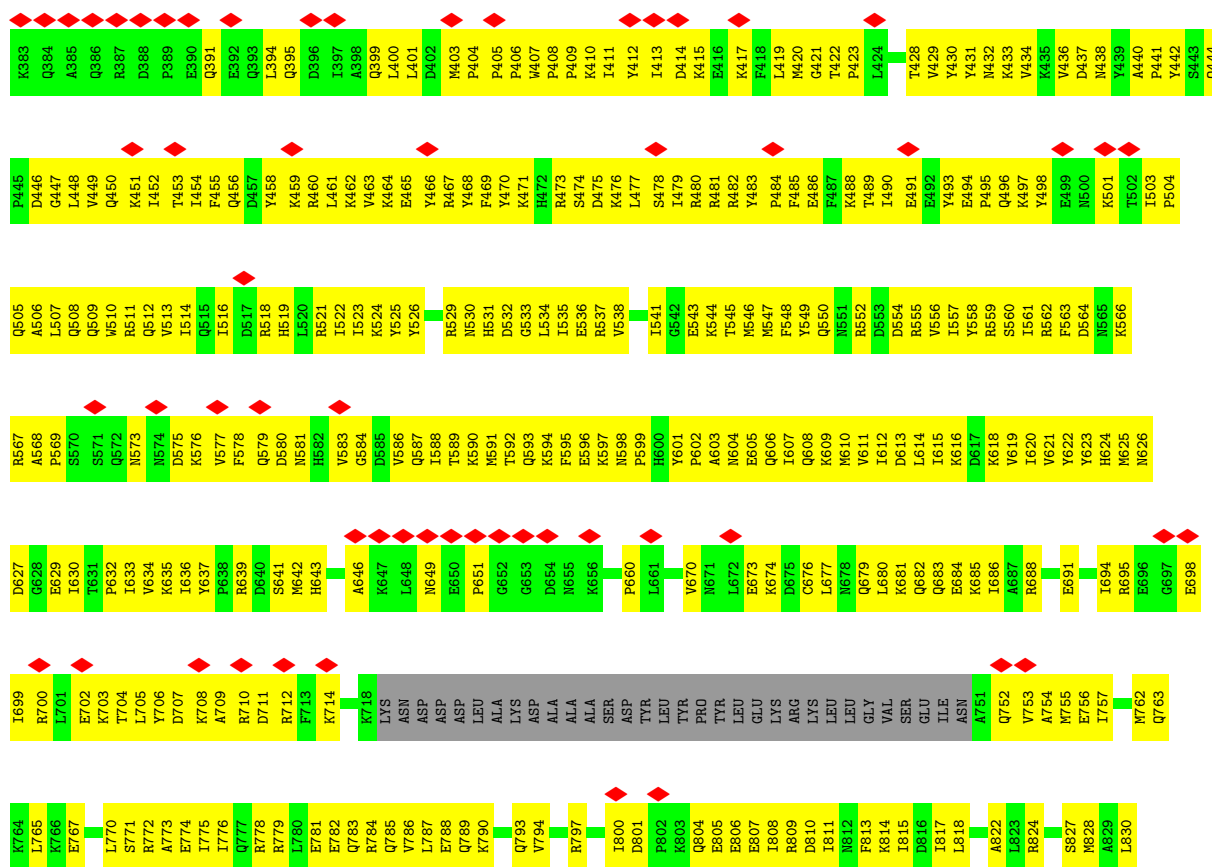


- Molecule 6: Flagellar associated protein

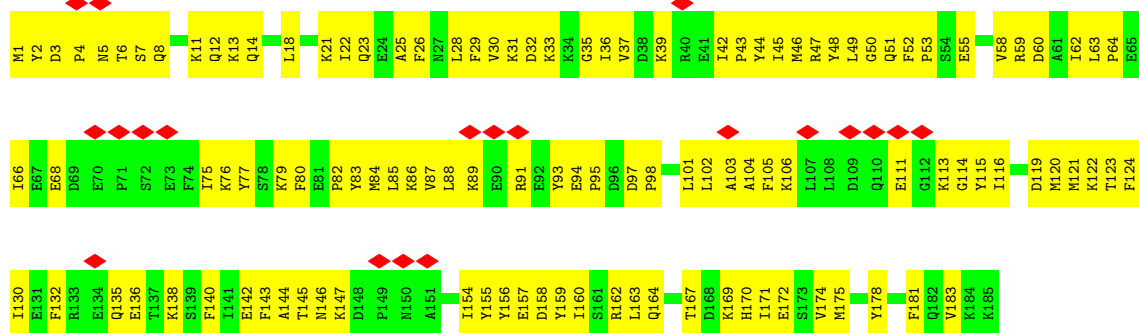


• Molecule 7: Kinase domain protein



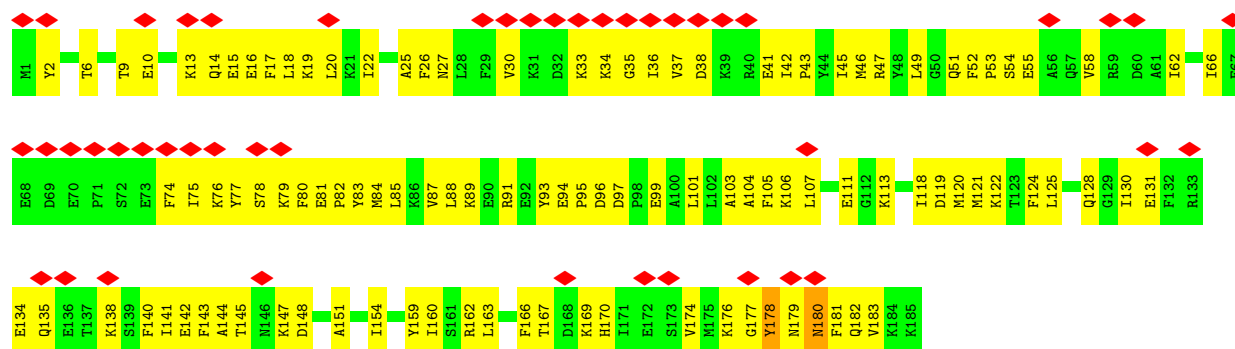


• Molecule 9: EF-hand calcium-binding domain protein



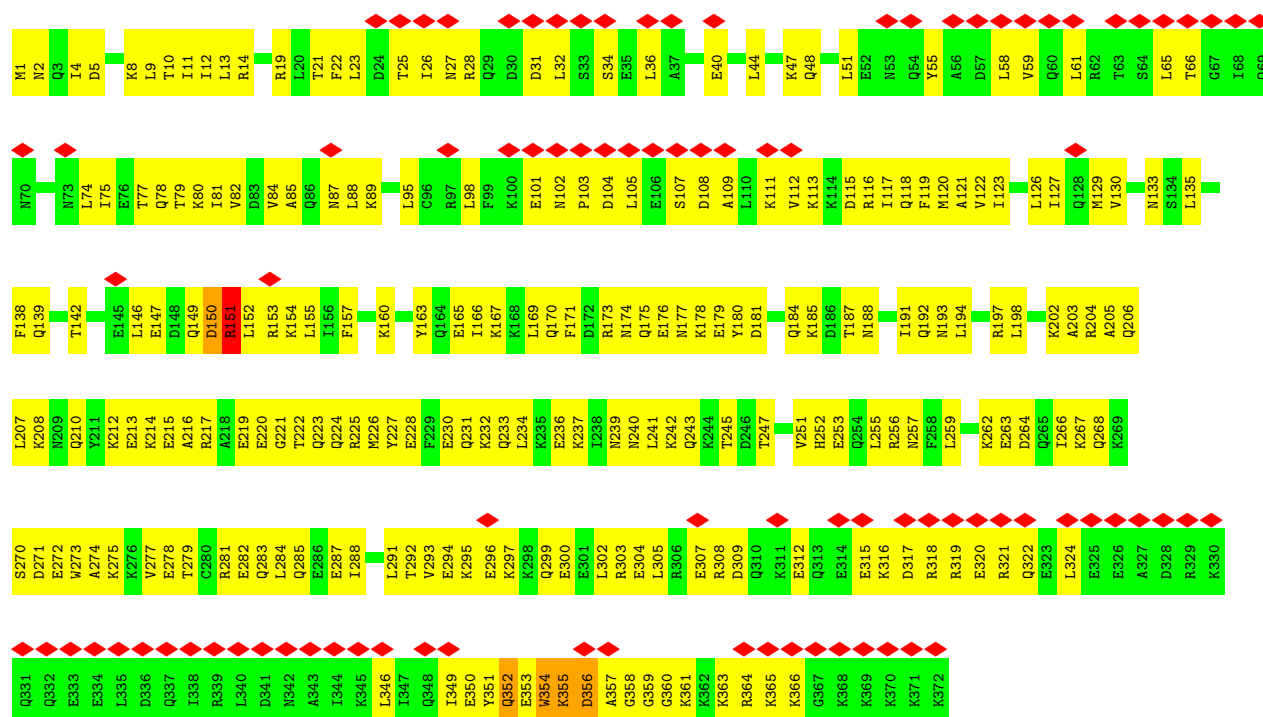
• Molecule 9: EF-hand calcium-binding domain protein





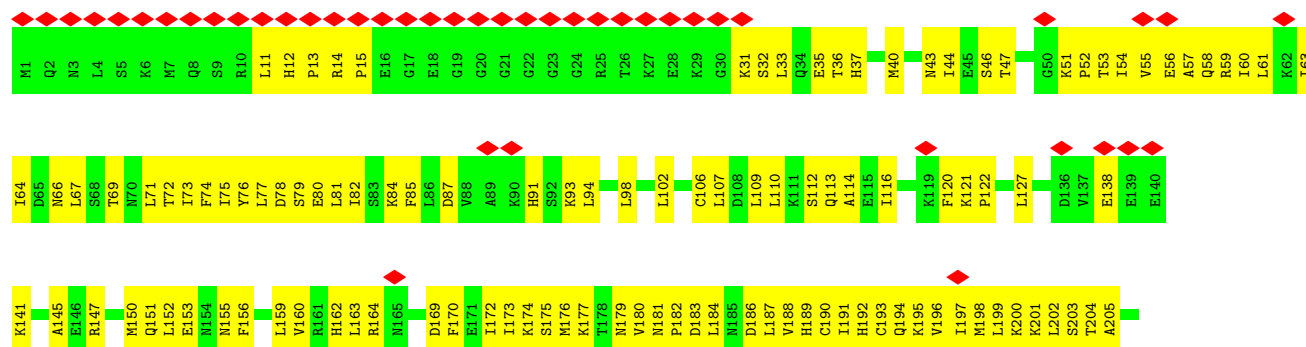
• Molecule 10: Dynein regulatory complex protein 9

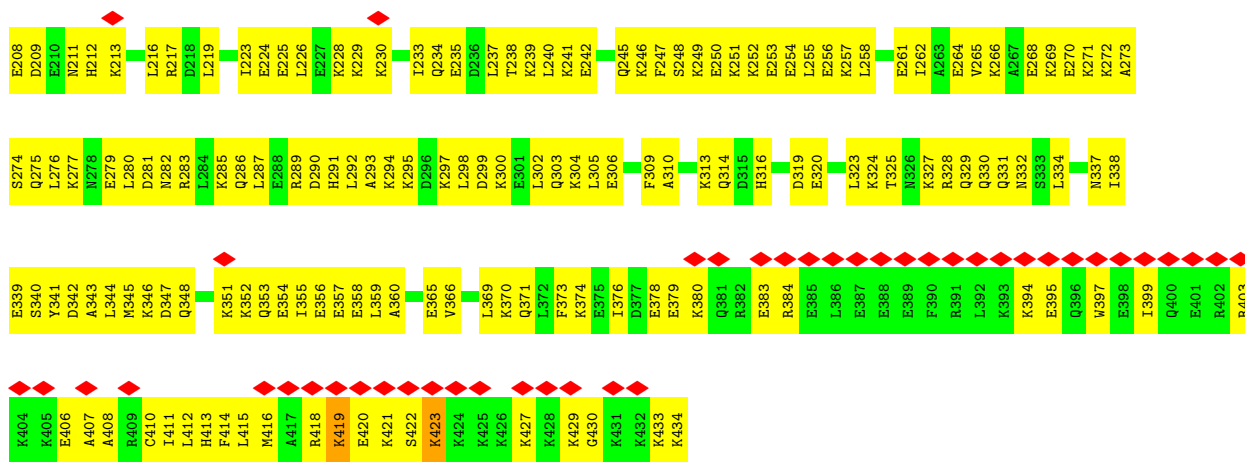
Chain J: 25% 39% 59%



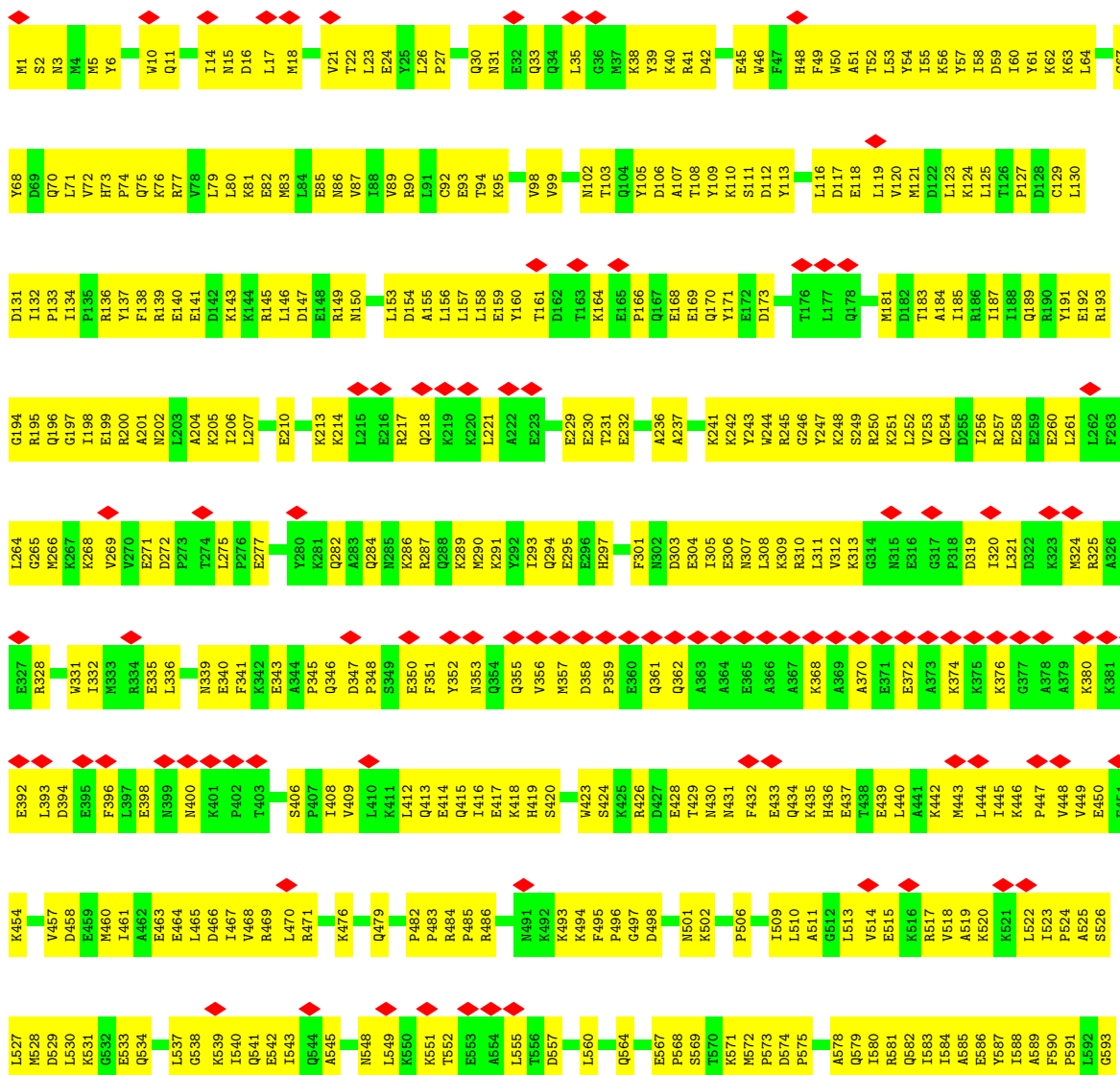
• Molecule 11: Dynein regulatory complex protein 10

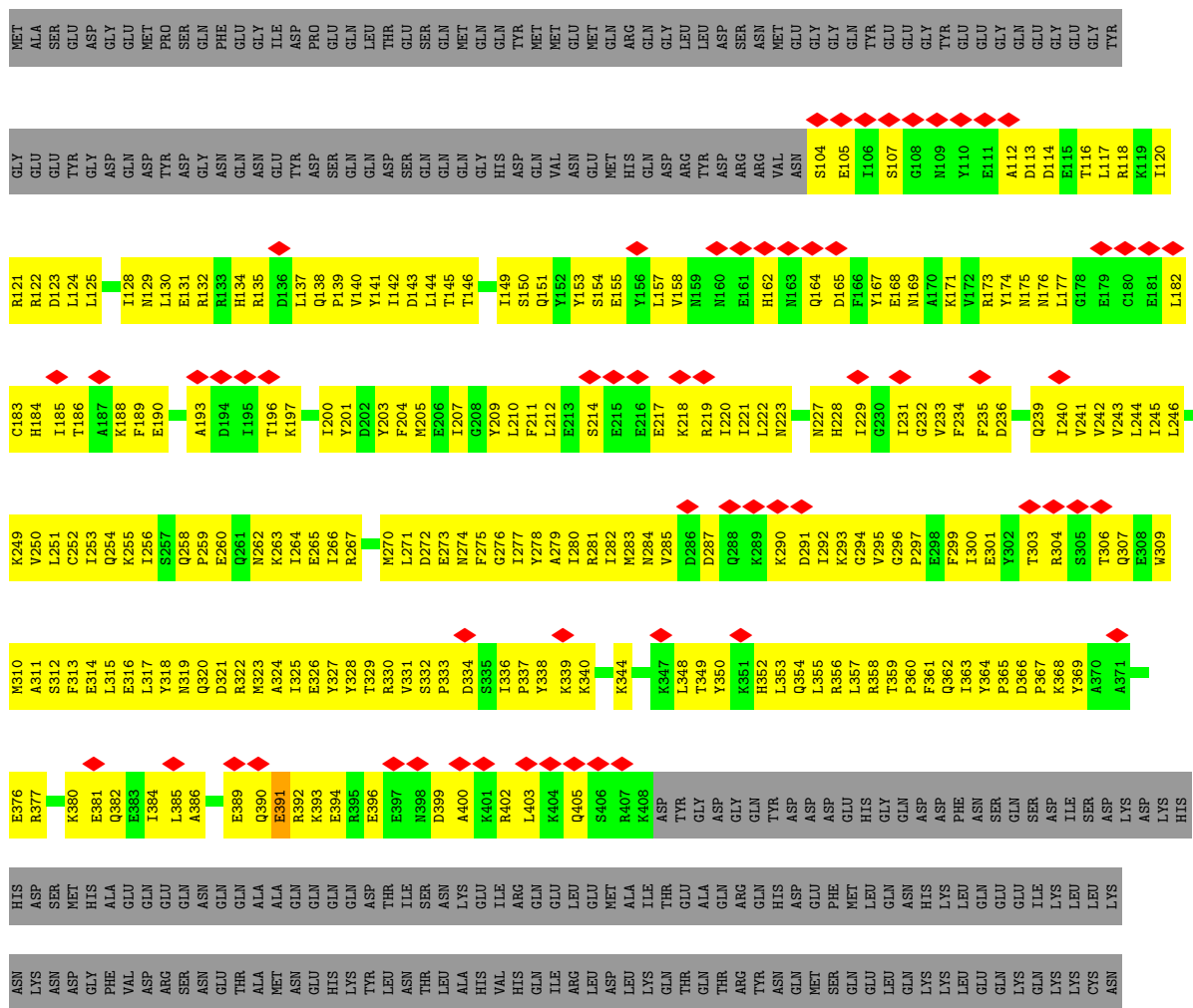
Chain K: 21% 38% 61%





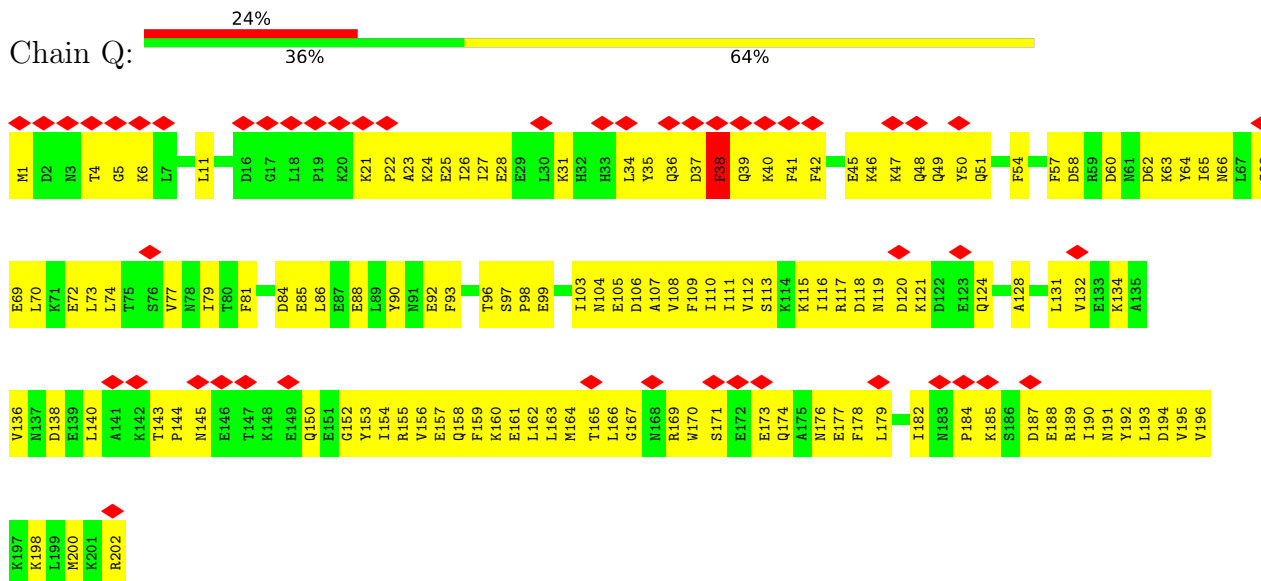
• Molecule 12: AAA family ATPase CDC48 subfamily protein



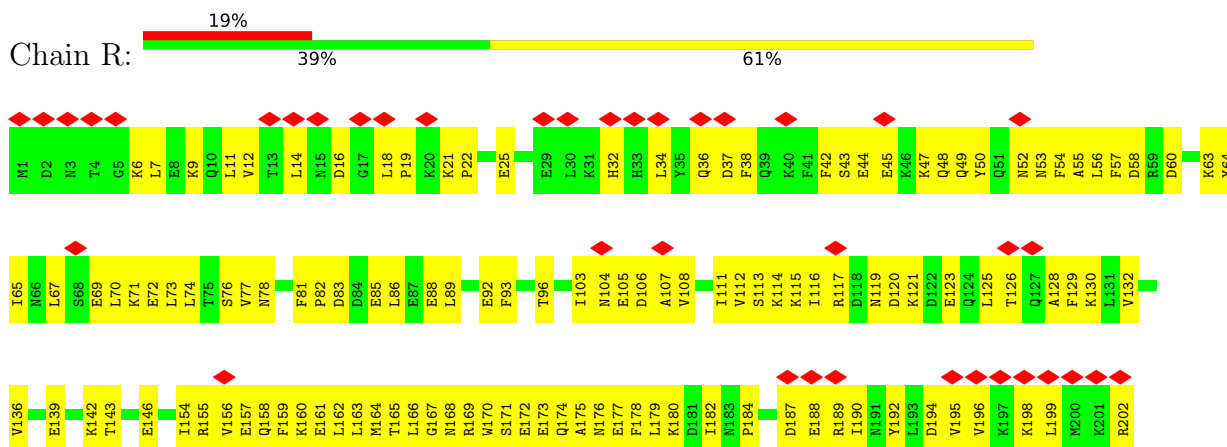


[illegible]

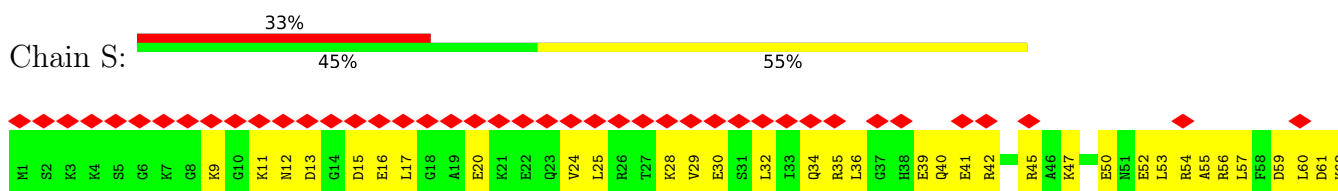
- Molecule 14: Calmodulin 7-2

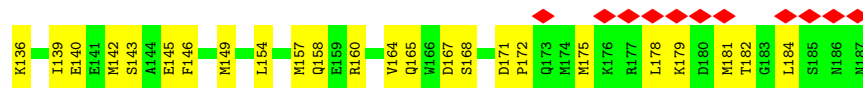
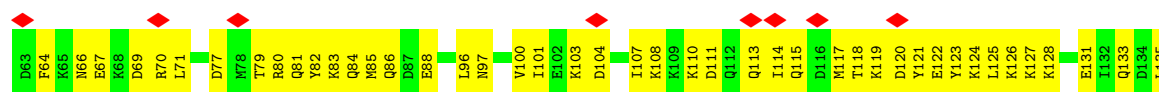


- Molecule 14: Calmodulin 7-2

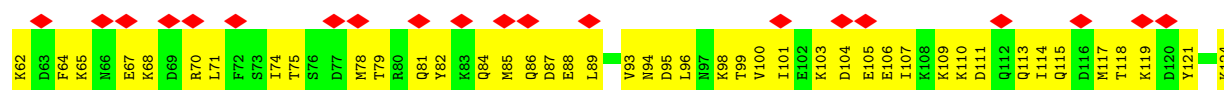


- Molecule 15: Coiled-coil domain-containing protein 153





• Molecule 15: Coiled-coil domain-containing protein 153



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	211502	Depositor
Resolution determination method	OTHER	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	45	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	0.174	Depositor
Minimum map value	-0.099	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.006	Depositor
Recommended contour level	0.0217	Depositor
Map size ($\text{\AA}$)	706.92, 578.14, 569.92	wwPDB
Map dimensions	258, 211, 208	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	2.74, 2.74, 2.74	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	0.14	0/2485	0.37	0/3301
2	B	0.21	0/2356	0.52	3/3138 (0.1%)
3	C	0.13	0/4482	0.31	0/6008
4	D	0.16	0/2487	0.38	0/3314
5	E	0.20	0/2470	0.43	2/3290 (0.1%)
6	F	0.12	0/3768	0.30	0/5071
7	G	0.13	0/2821	0.33	1/3772 (0.0%)
8	H	0.68	8/6994 (0.1%)	0.46	4/9419 (0.0%)
9	I	0.08	0/1586	0.22	0/2128
9	i	0.09	0/1586	0.26	0/2128
10	J	0.41	2/3173 (0.1%)	0.66	5/4219 (0.1%)
11	K	0.15	0/3620	0.36	0/4803
12	L	0.19	1/7234 (0.0%)	0.34	3/9693 (0.0%)
13	P	0.15	0/2623	0.39	1/3530 (0.0%)
14	Q	1.30	6/1705 (0.4%)	0.56	3/2290 (0.1%)
14	R	0.15	0/1705	0.36	0/2290
15	S	0.11	0/1552	0.27	0/2057
15	s	0.14	0/1552	0.39	1/2057 (0.0%)
All	All	0.38	17/54199 (0.0%)	0.40	23/72508 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	B	0	1
4	D	0	1
8	H	0	2
9	i	0	2
10	J	0	2
11	K	0	3
14	Q	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
All	All	0	12

All (17) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	H	8	TYR	CD2-CE2	26.99	2.19	1.38
14	Q	38	PHE	CD1-CE1	26.10	2.17	1.38
8	H	8	TYR	CD1-CE1	25.82	2.16	1.38
14	Q	38	PHE	CD2-CE2	24.22	2.11	1.38
14	Q	38	PHE	CE1-CZ	23.46	2.09	1.38
14	Q	38	PHE	CE2-CZ	23.16	2.08	1.38
8	H	8	TYR	CE2-CZ	18.94	1.83	1.38
8	H	8	TYR	CE1-CZ	18.76	1.83	1.38
8	H	6	GLY	N-CA	17.45	1.70	1.45
8	H	8	TYR	CG-CD2	16.88	1.74	1.39
8	H	8	TYR	CG-CD1	16.74	1.74	1.39
14	Q	38	PHE	CG-CD1	15.71	1.71	1.38
14	Q	38	PHE	CG-CD2	14.92	1.70	1.38
10	J	355	LYS	C-N	14.58	1.53	1.33
10	J	356	ASP	N-CA	14.01	1.63	1.46
12	L	765	PRO	CG-CD	-11.81	1.10	1.50
8	H	5	GLU	C-N	7.70	1.44	1.33

All (23) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	J	355	LYS	CA-C-N	22.24	155.12	121.99
10	J	355	LYS	C-N-CA	22.24	155.12	121.99
8	H	5	GLU	CA-C-N	16.60	153.94	121.41
8	H	5	GLU	C-N-CA	16.60	153.94	121.41
12	L	765	PRO	N-CD-CG	-13.65	82.72	103.20
15	s	56	ARG	N-CA-C	-10.34	98.97	111.69
2	B	111	LYS	N-CA-C	-9.25	100.62	112.93
8	H	6	GLY	N-CA-C	8.92	134.33	113.18
14	Q	38	PHE	CB-CA-C	8.53	126.92	109.95
12	L	765	PRO	CA-N-CD	-7.99	100.82	112.00
14	Q	38	PHE	CA-CB-CG	7.90	121.70	113.80
10	J	356	ASP	N-CA-C	7.85	120.84	108.67
12	L	765	PRO	CA-CB-CG	-7.67	89.92	104.50
7	G	135	PRO	CA-N-CD	-7.13	102.01	112.00
14	Q	38	PHE	N-CA-CB	-6.56	99.38	110.41
10	J	151	ARG	N-CA-C	6.46	119.53	109.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	J	356	ASP	CB-CA-C	-6.41	100.07	110.77
2	B	111	LYS	CA-C-N	-5.95	112.30	120.28
2	B	111	LYS	C-N-CA	-5.95	112.30	120.28
5	E	36	LYS	CB-CA-C	5.64	119.13	109.65
8	H	100	PRO	CA-N-CD	-5.59	104.17	112.00
5	E	36	LYS	CA-CB-CG	5.51	125.12	114.10
13	P	391	GLU	CB-CG-CD	5.19	121.42	112.60

There are no chirality outliers.

All (12) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	B	229	TYR	Peptide
4	D	113	HIS	Peptide
8	H	7	GLY	Peptide
8	H	9	SER	Peptide
10	J	352	GLN	Peptide
10	J	354	TRP	Peptide
11	K	420	GLU	Peptide
11	K	422	SER	Peptide
11	K	423	LYS	Peptide
14	Q	38	PHE	Sidechain
9	i	178	TYR	Peptide
9	i	180	ASN	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2460	0	2474	427	0
2	B	2329	0	2374	479	0
3	C	4433	0	4443	690	0
4	D	2461	2515	2515	127	0
5	E	2443	2509	2509	212	0
6	F	3714	0	3768	614	0
7	G	2780	0	2863	565	0
8	H	6857	0	6740	1012	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
9	I	1553	0	1535	202	0
9	i	1553	0	1535	244	0
10	J	3151	0	3245	482	0
11	K	3588	0	3732	547	0
12	L	7102	0	7205	1012	0
13	P	2576	0	2526	614	0
14	Q	1679	0	1659	350	0
14	R	1679	0	1659	390	0
15	S	1542	0	1557	191	0
15	s	1542	0	1557	199	0
All	All	53442	5024	53896	7091	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 66.

All (7091) 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)
8:H:8:TYR:CD2	8:H:8:TYR:CG	1.74	1.67
8:H:8:TYR:CG	8:H:8:TYR:CD1	1.74	1.66
8:H:8:TYR:CE1	8:H:8:TYR:CZ	1.83	1.59
8:H:8:TYR:CZ	8:H:8:TYR:CE2	1.83	1.59
8:H:6:GLY:N	8:H:6:GLY:CA	1.70	1.55
10:J:356:ASP:N	14:Q:38:PHE:CE1	1.77	1.46
8:H:6:GLY:HA2	8:H:8:TYR:CE2	1.53	1.44
8:H:6:GLY:N	8:H:8:TYR:CE1	1.87	1.42
10:J:356:ASP:N	14:Q:38:PHE:CZ	1.87	1.40
14:Q:38:PHE:CE1	14:Q:38:PHE:CZ	2.09	1.40
14:Q:38:PHE:CZ	14:Q:38:PHE:CE2	2.08	1.40
8:H:6:GLY:N	8:H:8:TYR:CD1	1.85	1.39
14:Q:38:PHE:CE2	14:Q:38:PHE:CD2	2.11	1.38
10:J:356:ASP:N	14:Q:38:PHE:CD1	1.93	1.35
8:H:8:TYR:CD1	8:H:8:TYR:CE1	2.16	1.34
14:Q:38:PHE:CE1	14:Q:38:PHE:CD1	2.17	1.32
8:H:6:GLY:CA	8:H:8:TYR:CE2	2.12	1.30
8:H:8:TYR:CD2	8:H:8:TYR:CE2	2.19	1.29
8:H:6:GLY:N	8:H:8:TYR:CD2	2.02	1.28
8:H:6:GLY:N	8:H:8:TYR:CG	2.02	1.27
8:H:6:GLY:N	8:H:8:TYR:CZ	2.03	1.27
10:J:356:ASP:N	14:Q:38:PHE:CE2	2.03	1.26
8:H:6:GLY:N	8:H:8:TYR:CE2	2.06	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:6:GLY:CA	8:H:8:TYR:CD2	2.22	1.21
10:J:356:ASP:HA	14:Q:38:PHE:CD2	1.73	1.21
8:H:6:GLY:CA	8:H:8:TYR:CZ	2.23	1.19
3:C:154:VAL:HA	3:C:193:VAL:HB	1.27	1.17
14:Q:36:GLN:O	14:Q:40:LYS:N	1.78	1.17
6:F:201:LYS:HD2	6:F:227:GLY:HA2	1.18	1.16
8:H:147:ASN:HA	8:H:282:ARG:HA	1.24	1.15
11:K:418:ARG:HA	11:K:419:LYS:HB2	1.27	1.15
7:G:198:LEU:HB3	14:Q:24:LYS:HB3	1.15	1.15
12:L:72:VAL:HG11	12:L:293:ILE:HG22	1.26	1.15
13:P:279:ALA:HB2	13:P:353:LEU:HD13	1.16	1.15
14:Q:37:ASP:O	14:Q:41:PHE:N	1.80	1.15
8:H:762:MET:HE2	8:H:840:LEU:HD21	1.14	1.14
10:J:356:ASP:N	14:Q:38:PHE:CD2	2.15	1.13
14:Q:36:GLN:HA	14:Q:39:GLN:CB	1.79	1.13
8:H:6:GLY:CA	8:H:8:TYR:CE1	2.31	1.13
3:C:236:ILE:HG23	3:C:242:ILE:HD13	1.31	1.12
14:Q:36:GLN:CA	14:Q:39:GLN:HB2	1.79	1.12
1:A:242:MET:HE1	2:B:233:LEU:HA	1.24	1.12
6:F:322:ASP:HA	6:F:351:ASN:HB2	1.24	1.12
6:F:68:MET:HA	6:F:72:ILE:HD13	1.29	1.12
8:H:562:ARG:HD2	8:H:590:LYS:HD3	1.26	1.12
12:L:72:VAL:HA	12:L:294:GLN:HG3	1.30	1.11
12:L:68:TYR:HB2	12:L:80:LEU:HD22	1.25	1.11
7:G:319:LYS:HB3	12:L:467:ILE:HG21	1.21	1.11
9:I:42:ILE:HD11	9:I:75:ILE:HG21	1.23	1.11
12:L:358:ASP:HB3	12:L:361:GLN:HB2	1.16	1.10
3:C:281:ILE:HG22	3:C:515:ILE:HG23	1.33	1.10
7:G:185:LYS:HD2	10:J:361:LYS:HB3	1.32	1.10
8:H:289:LEU:O	8:H:299:ASN:HA	1.52	1.09
3:C:35:ILE:HA	3:C:39:LEU:HD23	1.12	1.09
15:S:128:LYS:HD2	15:s:128:LYS:HE2	1.34	1.09
8:H:609:LYS:HB2	8:H:622:TYR:HB2	1.13	1.09
9:I:18:LEU:HD23	9:I:85:LEU:HD12	1.32	1.09
8:H:6:GLY:HA3	8:H:8:TYR:CE1	1.88	1.09
14:R:73:LEU:HD13	14:R:108:VAL:HG21	1.35	1.08
1:A:186:LYS:HA	1:A:189:LEU:HD13	1.27	1.08
7:G:225:THR:HB	14:Q:23:ALA:HB1	1.32	1.08
10:J:356:ASP:N	14:Q:38:PHE:CG	2.21	1.08
14:R:125:LEU:HD11	14:R:199:LEU:HD13	1.33	1.08
8:H:558:TYR:HB2	8:H:594:LYS:HB2	1.30	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:265:LEU:O	6:F:294:ASN:ND2	1.87	1.08
8:H:611:VAL:HB	8:H:620:ILE:HB	1.29	1.08
12:L:661:ALA:HB1	12:L:714:VAL:HG11	1.34	1.08
7:G:72:MET:HE2	7:G:101:ILE:HA	1.35	1.07
14:Q:21:LYS:HD2	14:Q:26:ILE:HD11	1.34	1.07
7:G:87:ARG:HA	7:G:115:ASP:HB3	1.32	1.07
3:C:140:ILE:HG21	3:C:157:ILE:HD11	1.32	1.07
3:C:391:LEU:HB3	3:C:564:LEU:HD21	1.37	1.07
10:J:356:ASP:CB	14:Q:47:LYS:HB2	1.85	1.06
13:P:281:ARG:HG2	13:P:294:GLY:HA3	1.31	1.06
7:G:309:TYR:HB2	7:G:334:PRO:HD3	1.32	1.06
8:H:602:PRO:HG2	8:H:605:GLU:HB3	1.27	1.06
10:J:355:LYS:C	14:Q:38:PHE:CE2	2.34	1.06
10:J:356:ASP:CA	14:Q:38:PHE:CE2	2.38	1.06
15:S:110:LYS:HE2	15:s:110:LYS:HD2	1.33	1.05
7:G:143:LYS:HG3	7:G:171:LYS:HB2	1.31	1.05
15:s:113:GLN:HB3	15:s:117:MET:HE1	1.32	1.05
8:H:9:SER:HB3	8:H:10:HIS:HA	1.39	1.05
13:P:315:LEU:HD22	14:R:175:ALA:HB2	1.37	1.05
3:C:69:LEU:HD12	3:C:91:LEU:HD21	1.36	1.05
7:G:198:LEU:HB2	14:Q:25:GLU:HG2	1.34	1.05
12:L:146:LEU:HD21	12:L:666:PRO:HD2	1.34	1.05
10:J:356:ASP:CA	14:Q:38:PHE:CD2	2.38	1.05
8:H:6:GLY:CA	8:H:8:TYR:CD1	2.40	1.04
8:H:146:PRO:HB2	8:H:282:ARG:HG2	1.36	1.04
8:H:6:GLY:HA3	8:H:8:TYR:CZ	1.93	1.04
8:H:156:PRO:HB2	8:H:411:ILE:HD11	1.40	1.04
12:L:64:LEU:HD13	12:L:83:MET:HE1	1.39	1.04
8:H:116:PRO:HA	8:H:176:SER:HB3	1.33	1.04
12:L:603:LYS:HB3	12:L:710:PRO:HB3	1.40	1.04
7:G:197:ASN:HB2	14:Q:26:ILE:HB	1.36	1.03
8:H:288:LEU:HD11	8:H:299:ASN:HB3	1.41	1.03
8:H:431:TYR:HB2	8:H:434:VAL:HB	1.40	1.03
3:C:355:LYS:HD3	3:C:358:LEU:HD21	1.38	1.03
7:G:284:ASP:HA	7:G:312:GLU:HB2	1.40	1.03
10:J:27:ASN:HA	10:J:31:ASP:HB2	1.38	1.03
7:G:274:LEU:HD13	7:G:302:LEU:HD21	1.41	1.03
12:L:243:TYR:HB3	9:i:163:LEU:HD21	1.38	1.03
15:s:55:ALA:HA	15:s:58:PHE:HB3	1.40	1.03
6:F:200:ILE:HG21	6:F:228:VAL:HG22	1.37	1.02
12:L:426:ARG:HH22	12:L:440:LEU:HB2	1.16	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:295:LEU:HB2	6:F:323:VAL:HG12	1.39	1.02
8:H:124:LEU:HD12	8:H:130:CYS:HB2	1.36	1.02
13:P:221:ILE:HA	13:P:246:LEU:HD21	1.35	1.02
15:S:57:LEU:HG	15:s:57:LEU:HG	1.38	1.02
3:C:282:LEU:HD22	3:C:285:LEU:HD11	1.34	1.02
12:L:335:GLU:HG2	12:L:345:PRO:HG3	1.39	1.02
7:G:235:GLN:HG2	15:S:55:ALA:HB2	1.39	1.02
8:H:196:ILE:HD11	8:H:316:PRO:HG2	1.42	1.02
14:Q:107:ALA:HA	14:Q:110:ILE:HD12	1.38	1.02
12:L:160:TYR:HB3	12:L:517:ARG:HH22	1.21	1.02
11:K:61:LEU:HA	11:K:64:ILE:HD12	1.41	1.01
5:E:38:ARG:O	5:E:41:GLU:N	1.93	1.01
7:G:198:LEU:HD23	14:Q:24:LYS:HD3	1.42	1.01
7:G:226:LEU:HG	7:G:280:LEU:HD13	1.42	1.01
8:H:276:ASP:HB3	8:H:279:GLN:HB2	1.42	1.01
1:A:13:ILE:HG22	1:A:17:ARG:HE	1.25	1.01
13:P:117:LEU:HD23	13:P:120:ILE:HD12	1.40	1.01
8:H:783:GLN:HB3	8:H:815:ILE:HG12	1.38	1.00
8:H:6:GLY:CA	8:H:8:TYR:CG	2.44	1.00
8:H:824:ARG:HE	8:H:828:MET:HE3	1.26	1.00
2:B:58:GLN:H	5:E:37:GLU:N	1.58	1.00
6:F:217:ASP:HB2	6:F:243:LYS:HE2	1.43	1.00
7:G:224:LYS:HE2	14:Q:98:PRO:HG3	1.43	1.00
10:J:356:ASP:C	14:Q:38:PHE:CE2	2.39	1.00
14:R:163:LEU:HD13	14:R:170:TRP:HB2	1.42	1.00
3:C:367:GLU:HG2	3:C:394:LEU:HD11	1.41	1.00
3:C:277:ALA:HB2	3:C:329:ILE:HG13	1.43	1.00
12:L:291:LYS:HA	12:L:294:GLN:OE1	1.61	1.00
13:P:256:ILE:HD12	13:P:364:TYR:HB3	1.43	0.99
7:G:76:THR:HG23	7:G:107:LYS:HG2	1.44	0.99
8:H:590:LYS:HE3	8:H:611:VAL:HG13	1.44	0.99
14:Q:156:VAL:HG23	14:Q:189:ARG:HD2	1.45	0.99
1:A:23:LEU:HD22	1:A:151:ILE:HG21	1.45	0.99
3:C:299:LYS:HA	3:C:306:ILE:HD13	1.44	0.99
6:F:306:LYS:HG3	6:F:335:LYS:HG3	1.45	0.99
10:J:356:ASP:HA	14:Q:38:PHE:CG	1.97	0.99
2:B:54:ILE:HG23	2:B:59:LYS:HD2	1.43	0.99
12:L:345:PRO:HB2	12:L:465:LEU:HD21	1.42	0.98
3:C:35:ILE:HD11	3:C:74:ILE:HD13	1.42	0.98
11:K:127:LEU:HD11	11:K:145:ALA:HB1	1.44	0.98
13:P:315:LEU:N	14:R:159:PHE:O	1.95	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:P:320:GLN:N	14:R:166:LEU:O	1.96	0.98
1:A:229:GLU:HA	1:A:232:ILE:HD12	1.45	0.98
13:P:207:ILE:HG13	13:P:240:ILE:HD11	1.45	0.98
2:B:54:ILE:O	2:B:60:VAL:HG23	1.63	0.98
6:F:319:LEU:HA	6:F:347:LEU:HA	1.44	0.98
7:G:22:SER:HB2	7:G:44:LEU:HD12	1.46	0.98
7:G:182:GLU:HG2	10:J:363:LYS:HG2	1.46	0.97
10:J:355:LYS:C	14:Q:38:PHE:CD2	2.42	0.97
6:F:31:VAL:HG13	6:F:55:ILE:HG12	1.46	0.97
7:G:198:LEU:CB	14:Q:24:LYS:HB3	1.94	0.97
8:H:291:SER:HB3	8:H:298:GLN:HA	1.46	0.97
2:B:58:GLN:H	5:E:36:LYS:C	1.71	0.97
11:K:415:LEU:HB2	14:Q:145:ASN:HB3	1.46	0.97
3:C:154:VAL:HG22	3:C:193:VAL:HG21	1.47	0.97
13:P:263:LYS:HA	14:R:160:LYS:HB3	1.43	0.97
2:B:55:LYS:H	5:E:36:LYS:CG	1.78	0.97
4:D:113:HIS:O	4:D:115:LEU:N	1.97	0.97
6:F:256:LEU:HB2	6:F:283:ALA:HB1	1.47	0.97
11:K:61:LEU:HD11	11:K:199:LEU:HD13	1.45	0.97
6:F:395:GLU:HG3	6:F:402:MET:HA	1.44	0.96
8:H:568:ALA:HB1	8:H:569:PRO:HD2	1.46	0.96
10:J:302:LEU:HB2	11:K:366:VAL:HG22	1.47	0.96
14:Q:136:VAL:HG13	14:Q:154:ILE:HD12	1.46	0.96
3:C:273:LYS:HE3	3:C:329:ILE:HG21	1.47	0.96
6:F:55:ILE:HG22	6:F:59:ILE:HD11	1.47	0.96
7:G:39:LEU:HB3	7:G:59:LEU:HD22	1.45	0.96
12:L:732:LYS:HE2	12:L:836:VAL:HA	1.45	0.96
7:G:191:LEU:HB2	7:G:219:ALA:HB1	1.47	0.96
11:K:371:GLN:HA	11:K:374:LYS:HD2	1.47	0.96
8:H:549:TYR:HB2	8:H:557:ILE:HA	1.45	0.96
12:L:140:GLU:HA	12:L:143:LYS:HD2	1.48	0.96
13:P:144:LEU:HD22	13:P:362:GLN:HE21	1.31	0.96
3:C:481:ASN:HB2	3:C:484:ASP:HB2	1.48	0.96
6:F:188:MET:HE1	6:F:193:ALA:HB2	1.47	0.96
8:H:603:ALA:HB1	8:H:624:HIS:HB2	1.46	0.95
3:C:371:GLU:HG3	3:C:394:LEU:HD22	1.48	0.95
2:B:57:GLU:H	5:E:36:LYS:H	1.07	0.95
6:F:225:MET:HE1	6:F:251:ARG:HG3	1.47	0.95
6:F:320:GLU:HA	6:F:349:VAL:HB	1.46	0.95
7:G:135:PRO:HD2	7:G:136:GLN:H	1.29	0.95
9:i:121:MET:HE3	9:i:141:ILE:HG12	1.44	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:134:ILE:HD13	12:L:589:ALA:HB2	1.49	0.95
13:P:294:GLY:N	14:R:177:GLU:HG2	1.81	0.95
12:L:609:PHE:HE2	12:L:717:ILE:HG23	1.32	0.95
3:C:338:GLU:HB3	3:C:423:TYR:HE1	1.29	0.94
13:P:280:ILE:HG23	14:R:173:GLU:HG2	1.46	0.94
13:P:314:GLU:HB3	14:R:159:PHE:HD2	1.30	0.94
10:J:202:LYS:HE2	11:K:265:VAL:HG22	1.49	0.94
6:F:306:LYS:HE2	6:F:335:LYS:HE3	1.49	0.94
8:H:610:MET:HA	8:H:621:VAL:HA	1.48	0.94
12:L:71:LEU:HD11	12:L:76:LYS:HD2	1.46	0.94
8:H:326:ASN:HD21	8:H:406:PRO:HG3	1.31	0.94
13:P:144:LEU:HD11	13:P:364:TYR:HB2	1.45	0.94
2:B:55:LYS:H	5:E:36:LYS:HG2	1.30	0.94
6:F:252:ILE:HD13	6:F:267:LEU:HD13	1.48	0.94
12:L:636:SER:OG	12:L:672:GLU:N	2.01	0.94
6:F:350:LEU:HD23	6:F:378:LEU:HD22	1.50	0.94
11:K:212:HIS:HA	11:K:216:LEU:HB2	1.48	0.94
12:L:260:GLU:HG3	12:L:264:LEU:HD12	1.50	0.94
3:C:289:TYR:HB2	3:C:295:LEU:HD23	1.46	0.93
8:H:5:GLU:C	8:H:8:TYR:CE2	2.46	0.93
10:J:358:GLY:HA2	14:Q:51:GLN:HG2	1.47	0.93
6:F:103:LYS:HE3	6:F:107:LEU:HD11	1.49	0.93
2:B:180:ASP:OD2	8:H:710:ARG:NH2	2.01	0.93
3:C:273:LYS:HG2	3:C:329:ILE:HD13	1.51	0.93
8:H:5:GLU:C	8:H:8:TYR:CD2	2.47	0.93
12:L:588:ILE:HG21	12:L:624:LEU:HD13	1.48	0.93
13:P:132:ARG:NE	13:P:138:GLN:O	2.01	0.93
9:I:155:TYR:HD2	12:L:796:ARG:HD2	1.31	0.93
12:L:72:VAL:CG1	12:L:293:ILE:HG22	1.99	0.93
12:L:79:LEU:HD21	12:L:419:HIS:HB2	1.50	0.93
14:R:182:ILE:HG23	14:R:184:PRO:HD3	1.49	0.92
3:C:324:MET:HE1	3:C:439:ILE:HA	1.51	0.92
13:P:132:ARG:HD2	13:P:140:VAL:HG13	1.48	0.92
1:A:94:MET:HE1	2:B:84:LEU:HD13	1.52	0.92
13:P:249:LYS:NZ	13:P:356:ARG:O	2.03	0.92
6:F:148:ASN:OD1	6:F:174:THR:N	2.02	0.92
10:J:187:THR:HG21	11:K:251:LYS:HB3	1.49	0.92
12:L:610:MET:HE1	12:L:738:LYS:HE3	1.50	0.92
1:A:260:LEU:HD12	1:A:263:LYS:HD2	1.49	0.92
2:B:60:VAL:HB	5:E:37:GLU:HG2	1.48	0.92
7:G:195:ASN:HB3	14:Q:27:ILE:HB	1.49	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:119:LYS:HG2	3:C:139:TYR:HB3	1.51	0.91
7:G:318:PRO:HB2	7:G:321:LEU:HG	1.49	0.91
11:K:418:ARG:CA	11:K:419:LYS:HB2	2.00	0.91
12:L:324:MET:HE2	12:L:457:VAL:HB	1.50	0.91
7:G:197:ASN:CB	14:Q:26:ILE:HB	2.00	0.91
12:L:520:LYS:HE3	12:L:522:LEU:HD21	1.50	0.91
14:Q:37:ASP:HB3	14:Q:41:PHE:HD2	1.35	0.91
7:G:153:THR:OG1	7:G:180:THR:OG1	1.87	0.91
7:G:160:ALA:HB1	7:G:164:CYS:HB3	1.51	0.91
10:J:355:LYS:C	14:Q:38:PHE:CZ	2.49	0.91
3:C:36:ASN:OD1	3:C:39:LEU:N	2.04	0.91
2:B:58:GLN:HB2	5:E:35:LEU:O	1.69	0.91
8:H:244:ASP:O	8:H:248:GLU:HG2	1.71	0.91
3:C:124:LEU:HD11	3:C:127:LEU:HD23	1.53	0.91
3:C:193:VAL:HG22	5:E:203:VAL:HG12	1.51	0.91
4:D:267:LEU:HD11	5:E:252:ILE:HG22	1.52	0.91
7:G:243:ASP:OD1	15:S:66:ASN:ND2	2.01	0.91
8:H:313:SER:HA	8:H:340:LYS:HG2	1.53	0.91
12:L:762:VAL:HG13	12:L:801:ILE:HG12	1.50	0.91
13:P:262:ASN:HA	14:R:161:GLU:HB3	1.51	0.91
8:H:138:VAL:HA	8:H:423:PRO:HG3	1.53	0.90
12:L:827:LYS:HA	12:L:827:LYS:HE3	1.52	0.90
14:Q:65:ILE:HD12	14:Q:70:LEU:HA	1.52	0.90
14:Q:132:VAL:HG22	14:Q:162:LEU:HD23	1.51	0.90
3:C:388:GLU:HG3	3:C:564:LEU:HD12	1.53	0.90
7:G:133:LEU:HD13	7:G:139:ILE:HD11	1.53	0.90
1:A:242:MET:HE3	1:A:243:LYS:HZ2	1.34	0.90
2:B:51:LYS:NZ	4:D:43:GLU:OE1	2.04	0.90
7:G:112:GLU:O	7:G:142:LEU:N	2.04	0.90
8:H:503:ILE:HG23	8:H:507:LEU:HD22	1.52	0.90
13:P:315:LEU:CG	14:R:163:LEU:HD12	2.00	0.90
15:S:145:GLU:HG2	15:S:149:MET:HE2	1.52	0.90
7:G:38:LYS:HG3	15:s:28:LYS:HE3	1.54	0.90
6:F:281:ALA:HB1	6:F:311:ASP:HB2	1.53	0.90
10:J:255:LEU:HD21	11:K:320:GLU:HG3	1.51	0.90
12:L:261:LEU:HA	12:L:266:MET:HB2	1.52	0.90
12:L:324:MET:HE1	12:L:454:LYS:HA	1.50	0.90
8:H:454:ILE:HD12	8:H:465:GLU:HB3	1.53	0.90
1:A:30:ASP:HA	6:F:403:PHE:HB2	1.54	0.90
10:J:355:LYS:C	14:Q:38:PHE:CD1	2.49	0.90
13:P:314:GLU:HB2	14:R:179:LEU:HD21	1.54	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:S:103:LYS:NZ	15:s:100:VAL:O	2.03	0.89
15:S:113:GLN:HB3	15:S:117:MET:HE3	1.54	0.89
1:A:49:ASP:HA	1:A:53:ARG:HB2	1.51	0.89
2:B:108:MET:O	2:B:112:ASN:N	2.06	0.89
6:F:266:ASN:HA	6:F:294:ASN:HD22	1.36	0.89
10:J:356:ASP:CA	14:Q:38:PHE:CZ	2.55	0.89
6:F:14:LYS:HB3	6:F:15:PRO:HD2	1.52	0.89
1:A:202:THR:HG22	1:A:206:GLN:HE22	1.33	0.89
7:G:319:LYS:CB	12:L:467:ILE:HG21	2.01	0.89
8:H:142:GLU:HG3	8:H:198:THR:HA	1.53	0.89
8:H:276:ASP:OD2	8:H:282:ARG:NE	2.05	0.89
8:H:581:ASN:ND2	8:H:684:GLU:O	2.06	0.89
2:B:121:GLN:O	2:B:125:ARG:HG2	1.73	0.89
9:i:18:LEU:HD12	9:i:85:LEU:HD12	1.54	0.89
7:G:226:LEU:HD23	7:G:280:LEU:HD22	1.52	0.89
11:K:427:LYS:HE2	14:Q:164:MET:HE2	1.54	0.89
13:P:295:VAL:HG23	14:R:176:ASN:HB3	1.52	0.89
11:K:290:ASP:O	11:K:294:LYS:HG2	1.72	0.89
11:K:418:ARG:HG2	11:K:419:LYS:HE3	1.55	0.89
14:R:18:LEU:HD12	14:R:19:PRO:HD2	1.55	0.89
15:s:54:ARG:HD2	15:s:57:LEU:HD12	1.52	0.89
3:C:378:GLU:O	3:C:382:GLY:N	2.05	0.89
8:H:519:HIS:HA	8:H:541:ILE:HD12	1.55	0.89
12:L:792:VAL:HG22	12:L:814:PRO:HG2	1.52	0.89
10:J:356:ASP:HB3	14:Q:47:LYS:HB2	1.52	0.88
11:K:77:LEU:HD21	11:K:173:ILE:HD13	1.52	0.88
13:P:320:GLN:HG2	14:R:163:LEU:HA	1.54	0.88
9:i:111:GLU:HG3	9:i:113:LYS:HE3	1.53	0.88
10:J:146:LEU:HD21	11:K:193:CYS:HB3	1.53	0.88
10:J:188:ASN:O	10:J:192:GLN:NE2	2.07	0.88
2:B:155:ILE:O	4:D:152:ARG:NH2	2.06	0.88
3:C:323:GLU:OE2	3:C:445:LYS:NZ	2.06	0.88
8:H:346:GLU:HB3	8:H:350:SER:CB	2.03	0.88
11:K:328:ARG:NH1	11:K:332:ASN:OD1	2.06	0.88
3:C:548:GLN:NE2	8:H:629:GLU:HA	1.87	0.88
12:L:738:LYS:HZ1	12:L:833:ASN:HA	1.37	0.88
14:R:104:ASN:HD21	14:R:106:ASP:HB2	1.39	0.88
9:i:43:PRO:HG3	9:i:58:VAL:HG11	1.53	0.88
14:Q:77:VAL:HG23	14:Q:79:ILE:HG13	1.56	0.88
1:A:274:LEU:HD11	2:B:265:ILE:HG23	1.55	0.88
2:B:57:GLU:N	5:E:37:GLU:H	1.71	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:522:ILE:HG12	8:H:538:VAL:HG13	1.53	0.88
12:L:604:MET:HE3	12:L:736:ASP:HB3	1.56	0.88
9:i:18:LEU:HD22	9:i:88:LEU:HD13	1.55	0.88
3:C:465:GLU:HB3	3:C:494:LYS:HE3	1.56	0.87
7:G:56:LYS:HG2	7:G:85:SER:HB3	1.56	0.87
7:G:168:VAL:O	14:Q:21:LYS:NZ	2.08	0.87
1:A:98:GLN:O	1:A:102:GLN:NE2	2.07	0.87
8:H:454:ILE:O	8:H:464:LYS:N	2.07	0.87
8:H:115:ARG:HD3	8:H:406:PRO:HB2	1.54	0.87
8:H:147:ASN:HA	8:H:282:ARG:CA	2.04	0.87
10:J:355:LYS:HB3	14:Q:38:PHE:CZ	2.08	0.87
2:B:105:PHE:O	2:B:109:LEU:N	2.06	0.87
7:G:54:ILE:HB	7:G:80:TYR:HE2	1.40	0.87
7:G:72:MET:SD	7:G:101:ILE:HG13	2.13	0.87
8:H:6:GLY:HA2	8:H:8:TYR:CD2	2.10	0.87
11:K:204:THR:HG21	11:K:212:HIS:HE1	1.36	0.87
13:P:157:LEU:HB2	13:P:241:VAL:HG11	1.55	0.87
2:B:60:VAL:H	5:E:37:GLU:HA	1.40	0.87
12:L:72:VAL:HG11	12:L:293:ILE:CG2	2.05	0.87
12:L:261:LEU:HD23	12:L:266:MET:HG3	1.53	0.87
12:L:289:LYS:O	12:L:293:ILE:HG13	1.74	0.87
12:L:346:GLN:OE1	12:L:479:GLN:NE2	2.08	0.87
8:H:698:GLU:HG3	8:H:699:ILE:H	1.40	0.87
12:L:60:ILE:HG22	12:L:64:LEU:HD11	1.56	0.87
13:P:279:ALA:HB2	13:P:353:LEU:CD1	2.04	0.87
15:S:40:GLN:HG3	15:s:39:GLU:HG2	1.55	0.87
1:A:170:ARG:NE	2:B:163:GLU:OE1	2.07	0.86
10:J:356:ASP:CA	14:Q:38:PHE:CG	2.57	0.86
7:G:88:LEU:HD22	7:G:91:VAL:HG11	1.55	0.86
9:I:48:TYR:OH	12:L:202:ASN:N	2.08	0.86
10:J:212:LYS:HD3	11:K:277:LYS:HE3	1.56	0.86
13:P:131:GLU:HG3	13:P:212:LEU:HD21	1.56	0.86
7:G:43:LYS:HE2	7:G:54:ILE:HG23	1.55	0.86
11:K:418:ARG:NH1	14:R:60:ASP:O	2.08	0.86
8:H:511:ARG:HB3	8:H:524:LYS:O	1.75	0.86
11:K:324:LYS:HA	11:K:327:LYS:HE3	1.56	0.86
13:P:389:GLU:HA	13:P:392:ARG:HG2	1.58	0.86
9:i:135:GLN:HA	9:i:138:LYS:HE2	1.55	0.86
8:H:522:ILE:HG23	8:H:538:VAL:HG22	1.58	0.86
11:K:271:LYS:O	11:K:274:SER:OG	1.91	0.86
1:A:91:ASN:O	1:A:95:GLN:NE2	2.08	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:302:LEU:HD13	7:G:311:MET:HE1	1.56	0.86
10:J:225:ARG:HA	10:J:228:GLU:OE1	1.73	0.86
15:S:36:LEU:HD11	15:s:35:ARG:HD3	1.56	0.86
6:F:407:GLN:NE2	6:F:411:GLU:OE2	2.09	0.86
10:J:352:GLN:O	14:Q:116:ILE:HA	1.75	0.86
12:L:72:VAL:HG23	12:L:290:MET:HE3	1.57	0.86
15:S:103:LYS:HB3	15:s:103:LYS:HE2	1.55	0.86
3:C:64:LEU:HD12	3:C:67:LEU:HD21	1.56	0.86
7:G:88:LEU:HD13	7:G:91:VAL:HG21	1.57	0.85
8:H:762:MET:HE2	8:H:840:LEU:CD2	2.04	0.85
10:J:4:ILE:HG22	10:J:8:LYS:HE2	1.57	0.85
12:L:48:HIS:HA	12:L:119:LEU:HD21	1.55	0.85
12:L:726:CYS:HB2	12:L:731:ILE:HD11	1.58	0.85
13:P:145:THR:OG1	13:P:360:PRO:HD2	1.74	0.85
13:P:325:ILE:N	13:P:359:THR:O	2.08	0.85
6:F:222:ARG:NH1	6:F:247:GLN:OE1	2.09	0.85
13:P:175:ASN:HB3	13:P:358:ARG:HH11	1.39	0.85
11:K:31:LYS:HD3	11:K:35:GLU:HB3	1.57	0.85
1:A:46:ARG:HH11	6:F:299:ASN:HB2	1.39	0.85
3:C:36:ASN:O	3:C:40:ILE:N	2.08	0.85
6:F:163:PRO:O	6:F:205:SER:OG	1.93	0.85
7:G:142:LEU:O	7:G:170:GLU:N	2.08	0.85
3:C:35:ILE:HA	3:C:39:LEU:CD2	2.02	0.85
3:C:451:VAL:HG22	3:C:505:LYS:HZ1	1.39	0.85
8:H:554:ASP:OD2	8:H:559:ARG:NH2	2.09	0.85
13:P:266:ILE:HD12	14:R:172:GLU:HB2	1.59	0.85
9:i:80:PHE:CE1	9:i:84:MET:HE1	2.12	0.85
6:F:148:ASN:O	6:F:175:LYS:HG3	1.77	0.85
6:F:292:SER:HB2	6:F:320:GLU:HB2	1.56	0.85
3:C:429:GLU:HG3	3:C:430:THR:HG23	1.59	0.85
8:H:54:LYS:HD2	8:H:104:CYS:HA	1.56	0.85
8:H:184:ASP:HB2	8:H:293:LYS:HB2	1.58	0.85
10:J:355:LYS:O	14:Q:38:PHE:CD2	2.30	0.85
6:F:114:PHE:HE2	6:F:130:LEU:HD13	1.42	0.85
12:L:41:ARG:HH11	12:L:45:GLU:HB3	1.39	0.85
12:L:51:ALA:HB3	12:L:119:LEU:HD22	1.57	0.85
13:P:293:LYS:HD2	14:R:178:PHE:H	1.40	0.85
9:i:182:GLN:NE2	9:i:183:VAL:O	2.09	0.85
14:Q:128:ALA:HB1	14:Q:166:LEU:HB3	1.57	0.85
8:H:216:GLU:OE1	8:H:218:ASN:ND2	2.10	0.84
10:J:112:VAL:HG21	11:K:54:ILE:HD12	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:80:GLU:HG2	11:K:84:LYS:HE3	1.58	0.84
6:F:174:THR:HB	6:F:177:SER:HB3	1.59	0.84
10:J:40:GLU:HG3	11:K:55:VAL:HG22	1.59	0.84
14:Q:35:TYR:O	14:Q:39:GLN:N	2.09	0.84
3:C:313:TYR:OH	3:C:450:ASN:OD1	1.94	0.84
7:G:167:SER:HB3	14:Q:28:GLU:HB2	1.59	0.84
7:G:281:LEU:HB3	7:G:308:ILE:HA	1.59	0.84
10:J:288:ILE:HG12	11:K:352:LYS:HG3	1.60	0.84
9:i:80:PHE:O	9:i:84:MET:HE3	1.77	0.84
15:s:85:MET:O	15:s:89:LEU:HG	1.78	0.84
6:F:239:LEU:HB2	6:F:267:LEU:HD23	1.57	0.84
7:G:170:GLU:HG3	14:Q:21:LYS:HD3	1.58	0.84
8:H:590:LYS:HE3	8:H:611:VAL:CG1	2.07	0.84
3:C:75:LEU:HD13	3:C:95:ILE:HD12	1.60	0.84
8:H:824:ARG:NE	8:H:828:MET:HE3	1.92	0.84
11:K:281:ASP:HB3	11:K:285:LYS:NZ	1.92	0.84
12:L:437:GLU:HG2	12:L:439:GLU:HG2	1.59	0.84
2:B:61:VAL:HG13	9:i:180:ASN:HD22	1.40	0.84
7:G:57:ILE:HB	7:G:86:ILE:HG12	1.57	0.84
8:H:513:VAL:HG22	8:H:523:ILE:HG12	1.60	0.84
13:P:256:ILE:N	13:P:364:TYR:O	2.11	0.84
13:P:294:GLY:H	14:R:177:GLU:H	1.25	0.84
1:A:191:LEU:HA	1:A:194:GLN:HE21	1.43	0.84
6:F:188:MET:SD	6:F:220:LEU:HD13	2.18	0.84
2:B:60:VAL:C	9:i:179:ASN:HB3	2.02	0.84
8:H:575:ASP:OD2	8:H:674:LYS:NZ	2.10	0.84
10:J:146:LEU:HD23	11:K:197:ILE:HD11	1.59	0.84
9:I:18:LEU:HD11	9:I:88:LEU:HD13	1.58	0.84
14:R:182:ILE:HG12	14:R:190:ILE:HD11	1.59	0.84
1:A:147:GLN:HG3	1:A:151:ILE:HD11	1.58	0.84
7:G:325:LYS:O	7:G:329:MET:HG2	1.76	0.84
10:J:351:TYR:HH	14:Q:50:TYR:HH	0.86	0.84
6:F:203:CYS:O	6:F:231:ASN:ND2	2.10	0.83
7:G:198:LEU:H	14:Q:25:GLU:H	1.23	0.83
10:J:10:THR:HG23	10:J:127:ILE:HG23	1.60	0.83
12:L:833:ASN:O	12:L:837:THR:OG1	1.96	0.83
3:C:371:GLU:CG	3:C:394:LEU:HD22	2.08	0.83
8:H:191:LYS:HE2	8:H:319:CYS:HB3	1.58	0.83
8:H:814:LYS:HD3	8:H:817:ILE:HD11	1.59	0.83
13:P:333:PRO:HA	13:P:336:ILE:HD12	1.57	0.83
3:C:320:HIS:O	3:C:323:GLU:HG2	1.78	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:147:ASN:CA	8:H:282:ARG:HA	2.06	0.83
3:C:108:LEU:HG	3:C:130:LEU:HD13	1.61	0.83
3:C:391:LEU:HD13	3:C:564:LEU:HD22	1.59	0.83
12:L:324:MET:HG3	12:L:457:VAL:HG11	1.60	0.83
1:A:60:ILE:HA	1:A:63:GLU:HG2	1.60	0.83
1:A:91:ASN:HA	1:A:94:MET:HE3	1.59	0.83
11:K:324:LYS:HG2	11:K:327:LYS:HE3	1.60	0.83
9:i:118:ILE:HA	9:i:121:MET:HE2	1.60	0.83
8:H:81:LYS:HG2	8:H:85:GLN:HE22	1.42	0.83
7:G:251:ASN:O	7:G:254:GLU:HG2	1.78	0.83
12:L:79:LEU:HD13	12:L:418:LYS:HZ1	1.44	0.83
15:S:123:TYR:O	15:S:126:LYS:HG3	1.78	0.83
7:G:252:PHE:O	7:G:256:ASN:ND2	2.08	0.83
8:H:555:ARG:O	8:H:596:GLU:N	2.12	0.83
15:S:110:LYS:HD2	15:s:110:LYS:HB2	1.61	0.83
6:F:168:LEU:HD23	6:F:206:LEU:HD13	1.61	0.83
7:G:285:PHE:HB3	7:G:290:ILE:HD11	1.59	0.83
2:B:63:PHE:CE1	9:i:181:PHE:HB2	2.13	0.83
3:C:282:LEU:HD23	3:C:515:ILE:CG2	2.09	0.83
3:C:363:GLU:OE2	3:C:397:LYS:NZ	2.11	0.83
7:G:292:LYS:HA	7:G:318:PRO:HD3	1.61	0.83
10:J:292:THR:O	10:J:295:LYS:HG2	1.79	0.83
10:J:355:LYS:C	14:Q:38:PHE:CE1	2.57	0.83
13:P:188:LYS:O	13:P:203:TYR:OH	1.97	0.82
6:F:380:LEU:O	6:F:383:ASN:ND2	2.11	0.82
7:G:154:GLU:OE2	7:G:158:GLN:NE2	2.09	0.82
7:G:313:LEU:HB3	7:G:317:ILE:HD13	1.61	0.82
8:H:146:PRO:O	8:H:283:VAL:N	2.11	0.82
8:H:555:ARG:HB3	8:H:596:GLU:HB3	1.58	0.82
2:B:222:LEU:HD23	2:B:225:LYS:HE2	1.60	0.82
6:F:319:LEU:HB3	6:F:348:LYS:HG3	1.59	0.82
8:H:521:ARG:NE	8:H:523:ILE:HD11	1.94	0.82
13:P:322:ARG:H	14:R:168:ASN:HA	1.44	0.82
13:P:330:ARG:HD2	13:P:353:LEU:HD23	1.60	0.82
14:Q:21:LYS:CD	14:Q:26:ILE:HD11	2.08	0.82
2:B:65:LYS:HE2	9:i:176:LYS:HE2	1.61	0.82
2:B:72:TRP:O	2:B:76:MET:HG2	1.79	0.82
5:E:97:GLN:NE2	15:s:88:GLU:OE2	2.12	0.82
3:C:281:ILE:CG2	3:C:515:ILE:HG23	2.08	0.82
10:J:147:GLU:HA	11:K:40:MET:HE3	1.60	0.82
11:K:294:LYS:O	11:K:298:LEU:HG	1.79	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:63:PHE:CE1	2:B:67:LYS:HD2	2.15	0.82
2:B:63:PHE:HZ	9:i:20:LEU:HG	1.42	0.82
11:K:109:LEU:HD13	11:K:159:LEU:HA	1.61	0.82
12:L:169:GLU:CG	12:L:618:THR:HG21	2.08	0.82
3:C:171:TYR:O	3:C:188:PHE:HB2	1.80	0.82
6:F:19:LYS:HB2	6:F:22:GLU:HG3	1.59	0.82
8:H:9:SER:HB3	8:H:10:HIS:CA	2.09	0.82
8:H:325:ASN:OD1	8:H:328:ASN:N	2.13	0.82
8:H:379:ASP:HB3	8:H:381:LEU:HD22	1.60	0.82
12:L:133:PRO:HB2	12:L:136:ARG:HH12	1.45	0.82
12:L:258:GLU:HA	12:L:261:LEU:HD12	1.61	0.82
9:i:144:ALA:HB1	9:i:154:ILE:HG21	1.60	0.82
3:C:147:HIS:ND1	3:C:187:GLU:OE1	2.13	0.82
6:F:236:GLU:HG2	6:F:264:TYR:HB2	1.59	0.82
12:L:86:ASN:HB3	12:L:412:LEU:HG	1.61	0.82
13:P:295:VAL:CG2	14:R:176:ASN:HB3	2.08	0.82
2:B:61:VAL:HG13	9:i:180:ASN:ND2	1.95	0.82
3:C:371:GLU:HG3	3:C:394:LEU:CD2	2.08	0.82
6:F:66:LEU:HD21	6:F:133:GLU:HG2	1.61	0.82
9:I:21:LYS:HD2	9:I:174:VAL:HG12	1.62	0.82
12:L:568:PRO:HB3	12:L:831:LYS:HG3	1.61	0.82
3:C:468:TYR:HB2	3:C:491:LEU:HD13	1.62	0.82
6:F:76:SER:O	6:F:80:ARG:HG2	1.80	0.82
7:G:97:GLY:O	7:G:101:ILE:HD12	1.80	0.82
13:P:320:GLN:OE1	14:R:166:LEU:N	2.12	0.82
2:B:184:THR:HG21	8:H:705:LEU:HD12	1.62	0.81
3:C:156:SER:HB2	5:E:206:HIS:CE1	2.15	0.81
6:F:221:LEU:HA	6:F:224:ILE:HD12	1.59	0.81
12:L:634:ASP:HA	12:L:670:TYR:O	1.79	0.81
13:P:280:ILE:HG23	14:R:173:GLU:CG	2.09	0.81
3:C:103:ASP:HB2	3:C:126:LYS:HE2	1.62	0.81
11:K:414:PHE:HA	14:R:55:ALA:HB1	1.61	0.81
12:L:123:LEU:HD11	12:L:125:LEU:HB2	1.61	0.81
13:P:324:ALA:HA	13:P:360:PRO:HA	1.62	0.81
14:R:163:LEU:HD13	14:R:170:TRP:CB	2.09	0.81
2:B:54:ILE:CG2	2:B:59:LYS:HD2	2.09	0.81
3:C:153:ASN:HA	3:C:191:LEU:HA	1.62	0.81
3:C:298:VAL:HG11	3:C:501:ILE:HD11	1.62	0.81
7:G:310:TYR:OH	7:G:312:GLU:OE2	1.98	0.81
8:H:609:LYS:CB	8:H:622:TYR:HB2	2.05	0.81
9:I:44:TYR:HE2	12:L:200:ARG:HD3	1.43	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:48:TYR:OH	12:L:198:ILE:O	1.98	0.81
12:L:113:TYR:HD1	12:L:579:GLN:HB3	1.44	0.81
13:P:256:ILE:HG23	13:P:266:ILE:HG12	1.62	0.81
15:S:84:GLN:O	15:S:88:GLU:HG3	1.80	0.81
2:B:203:PHE:O	2:B:206:GLU:HG2	1.81	0.81
3:C:378:GLU:HA	3:C:381:ASN:HB2	1.62	0.81
7:G:159:LEU:HD12	7:G:163:LEU:HD12	1.62	0.81
11:K:75:ILE:HD11	11:K:188:VAL:HG21	1.62	0.81
15:S:57:LEU:CG	15:s:57:LEU:HG	2.09	0.81
6:F:141:ILE:HG21	6:F:162:LEU:HD22	1.62	0.81
2:B:61:VAL:HG21	5:E:41:GLU:HG3	1.62	0.81
3:C:41:LEU:O	3:C:45:LYS:HG2	1.80	0.81
14:Q:132:VAL:O	14:Q:136:VAL:HG23	1.81	0.81
12:L:756:PHE:HD2	12:L:789:ILE:HD12	1.46	0.81
13:P:315:LEU:HG	14:R:163:LEU:HD12	1.63	0.81
13:P:399:ASP:HA	13:P:402:ARG:HG2	1.62	0.81
7:G:170:GLU:HB3	7:G:199:LYS:CD	2.09	0.81
8:H:488:LYS:HE2	8:H:490:ILE:HD11	1.62	0.81
12:L:149:ARG:NH2	12:L:150:ASN:OD1	2.14	0.81
2:B:102:LYS:O	2:B:106:ILE:HG13	1.80	0.81
6:F:115:LEU:HD23	6:F:146:LEU:HD21	1.63	0.81
7:G:198:LEU:N	14:Q:24:LYS:H	1.78	0.81
8:H:591:MET:CG	8:H:612:ILE:HB	2.11	0.81
12:L:749:ARG:NE	12:L:777:THR:OG1	2.12	0.81
5:E:131:ILE:HG22	5:E:135:MET:HE2	1.61	0.81
6:F:93:ILE:HB	6:F:102:TRP:HZ3	1.46	0.81
7:G:209:LYS:HG3	7:G:210:ASN:H	1.45	0.81
14:Q:37:ASP:HB3	14:Q:41:PHE:CD2	2.14	0.81
1:A:157:GLN:O	1:A:160:GLU:HG3	1.81	0.80
6:F:383:ASN:O	6:F:387:LYS:NZ	2.11	0.80
3:C:54:ILE:HG12	8:H:660:PRO:HD2	1.64	0.80
3:C:64:LEU:H	3:C:85:ARG:HH21	1.26	0.80
3:C:461:LYS:HG3	3:C:497:LEU:HD23	1.60	0.80
11:K:120:PHE:HZ	11:K:127:LEU:HD22	1.46	0.80
3:C:273:LYS:HE2	3:C:329:ILE:HD13	1.62	0.80
6:F:68:MET:HG3	6:F:103:LYS:HZ3	1.45	0.80
10:J:356:ASP:HB2	14:Q:47:LYS:HB2	1.63	0.80
12:L:154:ASP:HB3	12:L:164:LYS:HE3	1.62	0.80
13:P:282:ILE:HB	14:R:174:GLN:HG2	1.63	0.80
1:A:156:MET:HB2	5:E:127:TYR:CE1	2.17	0.80
2:B:236:MET:HG2	2:B:239:LYS:HE3	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:394:LEU:O	3:C:398:THR:HG23	1.81	0.80
7:G:198:LEU:N	14:Q:25:GLU:H	1.79	0.80
8:H:511:ARG:HH11	8:H:526:TYR:HA	1.45	0.80
1:A:5:GLN:NE2	1:A:169:GLU:O	2.14	0.80
13:P:132:ARG:CD	13:P:140:VAL:HG13	2.11	0.80
8:H:157:THR:HG22	8:H:411:ILE:HA	1.63	0.80
8:H:581:ASN:N	8:H:684:GLU:OE2	2.11	0.80
8:H:691:GLU:OE2	8:H:695:ARG:NH2	2.13	0.80
10:J:355:LYS:O	14:Q:38:PHE:CE2	2.34	0.80
12:L:127:PRO:HB3	12:L:534:GLN:HB2	1.62	0.80
12:L:261:LEU:O	12:L:266:MET:N	2.15	0.80
3:C:266:MET:O	3:C:269:GLN:HG3	1.82	0.80
6:F:281:ALA:HB2	6:F:308:LEU:HA	1.62	0.80
8:H:609:LYS:HB2	8:H:622:TYR:CB	2.06	0.80
11:K:416:MET:HB2	14:R:56:LEU:HD22	1.64	0.80
12:L:134:ILE:HG13	12:L:527:LEU:HD22	1.63	0.80
12:L:749:ARG:HH12	12:L:753:PHE:HB2	1.47	0.80
14:R:155:ARG:HG3	14:R:189:ARG:HH11	1.47	0.80
2:B:57:GLU:HA	5:E:38:ARG:H	1.46	0.80
2:B:74:LYS:HA	2:B:77:ARG:HG2	1.62	0.80
3:C:454:TYR:CB	3:C:505:LYS:HD2	2.11	0.80
7:G:235:GLN:HE22	15:S:54:ARG:HG3	1.46	0.80
12:L:169:GLU:HG3	12:L:618:THR:HG21	1.63	0.80
14:Q:194:ASP:OD1	14:Q:195:VAL:N	2.15	0.80
1:A:39:GLU:OE1	6:F:354:ASN:ND2	2.15	0.80
9:I:132:PHE:HZ	12:L:189:GLN:HA	1.46	0.79
12:L:358:ASP:OD1	12:L:359:PRO:HD2	1.82	0.79
9:i:26:PHE:O	9:i:30:VAL:HG23	1.81	0.79
2:B:47:ARG:HG2	4:D:41:ARG:HA	1.64	0.79
3:C:196:VAL:O	3:C:199:ASN:ND2	2.15	0.79
9:i:144:ALA:HB3	9:i:154:ILE:HD13	1.63	0.79
6:F:218:ASP:O	6:F:222:ARG:HG3	1.81	0.79
9:i:58:VAL:HA	9:i:62:ILE:HD12	1.65	0.79
8:H:468:TYR:HB2	8:H:480:ARG:HB2	1.62	0.79
10:J:202:LYS:HD3	11:K:265:VAL:HG13	1.61	0.79
11:K:11:LEU:HB3	11:K:13:PRO:HD2	1.64	0.79
11:K:266:LYS:O	11:K:269:LYS:HG3	1.82	0.79
1:A:148:PHE:CE1	2:B:141:ARG:HB3	2.17	0.79
3:C:406:MET:O	3:C:410:ILE:HG13	1.83	0.79
8:H:611:VAL:O	8:H:620:ILE:N	2.16	0.79
11:K:127:LEU:CD1	11:K:145:ALA:HB1	2.13	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:757:LEU:HA	12:L:760:LYS:HZ3	1.46	0.79
13:P:284:ASN:HA	13:P:292:ILE:HD11	1.64	0.79
15:s:81:GLN:O	15:s:85:MET:HG3	1.82	0.79
1:A:282:LYS:HD2	2:B:275:LYS:HZ2	1.48	0.79
2:B:74:LYS:O	2:B:77:ARG:HG2	1.83	0.79
3:C:125:ASP:O	3:C:148:ASN:ND2	2.15	0.79
6:F:421:LEU:HB3	6:F:426:ILE:HB	1.63	0.79
8:H:346:GLU:HB3	8:H:350:SER:HB2	1.63	0.79
11:K:427:LYS:HE2	14:Q:164:MET:CE	2.12	0.79
12:L:241:LYS:NZ	9:i:128:GLN:O	2.15	0.79
1:A:239:PHE:CE2	2:B:233:LEU:HB2	2.18	0.79
2:B:205:GLU:HG2	2:B:209:ASN:HD21	1.46	0.79
10:J:352:GLN:NE2	14:Q:116:ILE:O	2.15	0.79
13:P:315:LEU:HD13	14:R:175:ALA:HA	1.64	0.79
14:Q:45:GLU:OE2	14:Q:46:LYS:HG2	1.83	0.79
11:K:163:LEU:HD23	11:K:169:ASP:HB3	1.64	0.79
13:P:293:LYS:HE2	14:R:175:ALA:HA	1.64	0.79
14:R:74:LEU:HD22	14:R:81:PHE:CE1	2.18	0.79
1:A:52:ARG:O	1:A:56:ARG:HG3	1.82	0.79
1:A:85:ASP:HB2	2:B:77:ARG:HH21	1.47	0.79
6:F:378:LEU:HD12	6:F:379:ASP:H	1.46	0.79
12:L:636:SER:O	12:L:640:ILE:HG12	1.83	0.79
3:C:501:ILE:HD13	3:C:504:ILE:HD12	1.65	0.78
3:C:501:ILE:HA	3:C:504:ILE:HD12	1.64	0.78
7:G:72:MET:HE3	7:G:104:TYR:CB	2.13	0.78
8:H:573:ASN:HB2	8:H:576:LYS:HB2	1.64	0.78
12:L:807:LYS:N	12:L:810:GLU:OE2	2.15	0.78
3:C:313:TYR:HA	3:C:316:LYS:HE2	1.63	0.78
9:I:1:MET:HG2	9:I:175:MET:HE2	1.65	0.78
3:C:288:GLU:O	3:C:292:ILE:HG13	1.82	0.78
8:H:779:ARG:O	8:H:782:GLU:HG2	1.83	0.78
14:Q:31:LYS:NZ	14:Q:110:ILE:HD13	1.97	0.78
14:R:154:ILE:HD11	14:R:158:GLN:HG2	1.65	0.78
15:S:125:LEU:HA	15:s:128:LYS:HE3	1.63	0.78
1:A:270:MET:SD	2:B:265:ILE:HD13	2.24	0.78
2:B:222:LEU:HD23	2:B:225:LYS:CE	2.13	0.78
6:F:150:ASN:OD1	6:F:174:THR:HA	1.82	0.78
6:F:188:MET:HG2	6:F:214:ASN:HB3	1.63	0.78
8:H:790:LYS:NZ	8:H:804:GLN:OE1	2.14	0.78
9:i:43:PRO:HA	9:i:46:MET:HE3	1.65	0.78
2:B:93:GLN:HA	2:B:96:GLN:HE21	1.47	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:37:GLU:HA	3:C:40:ILE:CG1	2.13	0.78
4:D:175:GLU:OE1	4:D:179:GLN:NE2	2.16	0.78
6:F:142:HIS:O	6:F:166:THR:N	2.12	0.78
10:J:356:ASP:CA	14:Q:38:PHE:CE1	2.66	0.78
14:Q:136:VAL:HG22	14:Q:154:ILE:HD13	1.62	0.78
15:S:120:ASP:OD1	15:S:121:TYR:N	2.17	0.78
1:A:285:LEU:O	1:A:289:THR:HG23	1.84	0.78
6:F:143:THR:HG23	6:F:167:SER:HB3	1.65	0.78
12:L:257:ARG:O	12:L:261:LEU:HG	1.82	0.78
13:P:153:TYR:HD2	13:P:243:VAL:HG11	1.46	0.78
13:P:171:LYS:HG2	13:P:176:ASN:HB3	1.64	0.78
13:P:284:ASN:HD22	13:P:290:LYS:HB3	1.47	0.78
7:G:170:GLU:O	7:G:199:LYS:HG2	1.84	0.78
8:H:790:LYS:NZ	8:H:807:GLU:OE1	2.16	0.78
9:I:51:GLN:HE21	9:I:88:LEU:HD23	1.48	0.78
11:K:72:THR:HA	11:K:75:ILE:HD12	1.65	0.78
12:L:568:PRO:HG3	12:L:827:LYS:HB3	1.66	0.78
12:L:670:TYR:HA	12:L:717:ILE:HB	1.66	0.78
12:L:498:ASP:HB3	12:L:502:LYS:HE2	1.65	0.78
13:P:146:THR:HB	13:P:245:ILE:HB	1.66	0.78
1:A:23:LEU:HD13	1:A:151:ILE:HG12	1.64	0.78
2:B:55:LYS:HG3	2:B:60:VAL:HG21	1.65	0.78
3:C:276:ASP:HB3	3:C:332:HIS:CD2	2.19	0.78
12:L:204:ALA:O	12:L:207:LEU:HG	1.83	0.78
14:Q:156:VAL:HG23	14:Q:189:ARG:HA	1.65	0.78
3:C:82:GLY:O	3:C:85:ARG:NH1	2.16	0.78
10:J:293:VAL:O	10:J:297:LYS:NZ	2.15	0.78
10:J:355:LYS:CA	14:Q:38:PHE:CE1	2.66	0.78
11:K:413:HIS:O	14:R:56:LEU:N	2.17	0.78
13:P:256:ILE:HG12	13:P:266:ILE:HG23	1.66	0.78
3:C:127:LEU:HD21	3:C:130:LEU:HB2	1.66	0.77
6:F:321:LEU:O	6:F:351:ASN:N	2.17	0.77
6:F:407:GLN:O	6:F:411:GLU:HG2	1.83	0.77
7:G:156:LEU:HD11	7:G:187:ILE:HD11	1.66	0.77
7:G:198:LEU:HB3	14:Q:24:LYS:CB	2.06	0.77
1:A:47:ALA:O	1:A:51:ARG:HB2	1.83	0.77
1:A:206:GLN:O	1:A:210:ILE:HG13	1.83	0.77
2:B:55:LYS:N	5:E:36:LYS:HG2	1.97	0.77
6:F:277:SER:HB3	6:F:300:LEU:HD22	1.66	0.77
7:G:303:GLU:OE2	7:G:324:ARG:NH2	2.17	0.77
8:H:454:ILE:HD11	8:H:467:ARG:NE	1.98	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:241:LYS:O	11:K:245:GLN:NE2	2.18	0.77
15:S:57:LEU:HG	15:s:57:LEU:CG	2.12	0.77
15:s:101:ILE:HA	15:s:104:ASP:OD2	1.84	0.77
7:G:163:LEU:HA	7:G:166:ASN:HB2	1.67	0.77
7:G:267:ILE:HG13	7:G:294:ASP:OD1	1.85	0.77
12:L:358:ASP:HB3	12:L:361:GLN:CB	2.08	0.77
13:P:270:MET:HE3	13:P:272:ASP:HB3	1.67	0.77
14:R:42:PHE:CZ	14:R:116:ILE:HD12	2.19	0.77
3:C:277:ALA:HB2	3:C:329:ILE:CG1	2.14	0.77
10:J:359:GLY:N	14:Q:105:GLU:OE1	2.16	0.77
11:K:31:LYS:O	11:K:36:THR:OG1	2.02	0.77
14:R:71:LYS:NZ	14:R:83:ASP:OD1	2.16	0.77
2:B:126:ASN:O	2:B:130:HIS:ND1	2.15	0.77
12:L:146:LEU:CD2	12:L:666:PRO:HD2	2.12	0.77
12:L:644:TYR:CE1	12:L:653:MET:HG3	2.20	0.77
13:P:153:TYR:HH	13:P:162:HIS:HD1	1.30	0.77
14:R:44:GLU:HA	14:R:47:LYS:HE3	1.66	0.77
2:B:205:GLU:HG2	2:B:209:ASN:ND2	1.99	0.77
6:F:201:LYS:HB3	6:F:227:GLY:O	1.83	0.77
8:H:591:MET:SD	8:H:612:ILE:HD12	2.25	0.77
8:H:619:VAL:HG12	8:H:621:VAL:HG23	1.66	0.77
9:I:47:ARG:HB3	12:L:198:ILE:HG13	1.65	0.77
9:I:49:LEU:HD13	9:I:88:LEU:HD11	1.65	0.77
10:J:135:LEU:HD13	11:K:183:ASP:HB3	1.64	0.77
12:L:548:ASN:HB2	12:L:571:LYS:HD3	1.66	0.77
7:G:135:PRO:HD2	7:G:136:GLN:N	1.99	0.77
7:G:201:LEU:HB2	14:Q:24:LYS:HZ2	1.50	0.77
15:S:128:LYS:CD	15:s:128:LYS:HE2	2.12	0.77
7:G:25:TYR:O	7:G:28:LYS:HG2	1.85	0.77
8:H:248:GLU:O	8:H:252:ARG:HG2	1.84	0.77
9:I:47:ARG:NE	12:L:194:GLY:HA2	2.00	0.77
10:J:231:GLN:HE22	11:K:294:LYS:HE2	1.49	0.77
10:J:355:LYS:C	14:Q:38:PHE:CG	2.63	0.77
12:L:64:LEU:HD13	12:L:83:MET:CE	2.14	0.77
13:P:291:ASP:HB2	14:R:202:ARG:HH22	1.49	0.77
1:A:242:MET:HE3	1:A:243:LYS:NZ	1.99	0.77
2:B:64:ASN:HB2	9:i:180:ASN:ND2	2.00	0.77
3:C:166:GLU:O	3:C:169:THR:OG1	2.01	0.77
3:C:273:LYS:CE	3:C:329:ILE:HG21	2.15	0.77
3:C:454:TYR:HB2	3:C:505:LYS:HD2	1.66	0.77
3:C:490:LEU:HD21	3:C:497:LEU:HD22	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:61:THR:O	6:F:85:ARG:NH1	2.18	0.77
7:G:319:LYS:HB3	12:L:467:ILE:CG2	2.09	0.77
1:A:48:GLU:O	1:A:53:ARG:N	2.17	0.77
2:B:60:VAL:O	2:B:60:VAL:HG12	1.85	0.77
2:B:72:TRP:HA	2:B:75:ILE:HG22	1.66	0.77
3:C:47:PHE:HA	3:C:50:GLU:OE1	1.85	0.77
8:H:581:ASN:CG	8:H:688:ARG:HB2	2.09	0.77
1:A:23:LEU:HD22	1:A:151:ILE:CG2	2.15	0.76
2:B:61:VAL:HG11	5:E:41:GLU:CG	2.15	0.76
3:C:364:PHE:CZ	3:C:398:THR:HG22	2.20	0.76
6:F:146:LEU:HB3	6:F:149:ILE:HD11	1.66	0.76
7:G:281:LEU:HD13	7:G:307:ASN:O	1.85	0.76
8:H:81:LYS:O	8:H:85:GLN:NE2	2.18	0.76
8:H:532:ASP:O	8:H:552:ARG:NH1	2.18	0.76
12:L:612:PRO:HG2	12:L:615:SER:HB3	1.65	0.76
13:P:322:ARG:N	14:R:169:ARG:H	1.82	0.76
13:P:357:LEU:HG	13:P:359:THR:HG23	1.66	0.76
15:S:64:PHE:O	15:S:67:GLU:HG3	1.84	0.76
1:A:8:LYS:NZ	1:A:169:GLU:HB3	2.01	0.76
2:B:61:VAL:HG11	5:E:41:GLU:HG2	1.67	0.76
6:F:69:ALA:HA	6:F:103:LYS:HE2	1.67	0.76
6:F:418:ARG:HA	6:F:428:PHE:CE1	2.20	0.76
10:J:119:PHE:CE1	11:K:198:MET:HE1	2.19	0.76
11:K:14:ARG:HG3	11:K:15:PRO:HD2	1.67	0.76
12:L:67:CYS:O	12:L:71:LEU:N	2.18	0.76
12:L:72:VAL:CG2	12:L:290:MET:HE3	2.15	0.76
15:S:25:LEU:HD13	15:s:25:LEU:HB2	1.66	0.76
1:A:186:LYS:HA	1:A:189:LEU:CD1	2.13	0.76
2:B:151:ARG:O	2:B:155:ILE:HG13	1.85	0.76
3:C:172:PHE:HD2	3:C:217:ILE:HG12	1.50	0.76
6:F:198:GLU:HA	6:F:201:LYS:HD3	1.67	0.76
1:A:215:ILE:O	1:A:219:LYS:HG2	1.85	0.76
3:C:35:ILE:CA	3:C:39:LEU:HD23	2.06	0.76
7:G:54:ILE:HB	7:G:80:TYR:CE2	2.20	0.76
8:H:253:GLU:HA	8:H:256:GLU:CD	2.10	0.76
12:L:149:ARG:O	12:L:153:LEU:HG	1.85	0.76
12:L:426:ARG:NH2	12:L:440:LEU:HB2	1.96	0.76
3:C:391:LEU:HD12	3:C:564:LEU:HD13	1.66	0.76
6:F:265:LEU:HD11	6:F:267:LEU:HG	1.67	0.76
6:F:418:ARG:HA	6:F:428:PHE:CZ	2.21	0.76
7:G:182:GLU:CG	10:J:363:LYS:HG2	2.13	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:P:356:ARG:HH11	14:R:12:VAL:HB	1.47	0.76
8:H:456:GLN:HG3	8:H:462:LYS:HE3	1.67	0.76
8:H:549:TYR:HB2	8:H:557:ILE:CA	2.15	0.76
8:H:797:ARG:NH1	8:H:801:ASP:OD2	2.19	0.76
13:P:177:LEU:HG	13:P:358:ARG:HB2	1.65	0.76
2:B:58:GLN:O	5:E:40:ASN:N	2.18	0.76
6:F:19:LYS:HB2	6:F:22:GLU:CG	2.15	0.76
8:H:578:PHE:HZ	8:H:684:GLU:HB2	1.49	0.76
10:J:111:LYS:NZ	11:K:201:LYS:O	2.18	0.76
10:J:294:GLU:HB3	11:K:359:LEU:HD11	1.65	0.76
15:S:15:ASP:OD1	15:S:16:GLU:N	2.19	0.76
1:A:23:LEU:HD21	1:A:151:ILE:HD13	1.67	0.76
1:A:48:GLU:HG2	1:A:53:ARG:CG	2.16	0.76
1:A:170:ARG:NH2	2:B:160:PHE:O	2.19	0.76
2:B:58:GLN:HA	5:E:39:VAL:H	1.51	0.76
2:B:183:GLU:OE2	2:B:184:THR:HG23	1.86	0.76
3:C:65:ARG:NH2	3:C:85:ARG:HG3	2.01	0.76
11:K:72:THR:HG22	11:K:170:PHE:HZ	1.51	0.76
12:L:335:GLU:HG2	12:L:345:PRO:CG	2.14	0.76
12:L:530:LEU:HD23	12:L:619:LEU:HD23	1.67	0.76
12:L:537:LEU:HB3	12:L:540:ILE:HD11	1.67	0.76
12:L:537:LEU:HD13	12:L:540:ILE:HD11	1.68	0.76
14:Q:93:PHE:HB2	14:Q:103:ILE:HD13	1.66	0.76
15:s:52:GLU:HA	15:s:55:ALA:HB3	1.68	0.76
1:A:130:LEU:HA	1:A:133:GLN:HE21	1.51	0.76
1:A:210:ILE:HG22	1:A:214:ARG:HH11	1.51	0.76
2:B:40:LYS:O	2:B:44:LYS:HB2	1.86	0.76
3:C:135:LEU:HB3	3:C:140:ILE:CD1	2.15	0.76
3:C:172:PHE:CE2	3:C:217:ILE:HG23	2.20	0.76
6:F:201:LYS:HD2	6:F:227:GLY:CA	2.09	0.76
7:G:95:ASP:OD1	7:G:125:GLY:N	2.19	0.76
8:H:346:GLU:HB3	8:H:350:SER:HB3	1.67	0.76
10:J:234:LEU:CD1	11:K:295:LYS:HE3	2.16	0.76
12:L:618:THR:HG22	12:L:622:ARG:HE	1.50	0.76
13:P:123:ASP:OD2	13:P:201:TYR:OH	2.02	0.76
6:F:281:ALA:CB	6:F:308:LEU:HA	2.15	0.76
7:G:91:VAL:N	7:G:119:ASN:OD1	2.19	0.76
7:G:201:LEU:HB2	14:Q:24:LYS:NZ	2.00	0.76
8:H:291:SER:HB3	8:H:298:GLN:CA	2.16	0.76
8:H:752:GLN:O	8:H:755:MET:HG2	1.86	0.76
11:K:211:ASN:O	11:K:216:LEU:N	2.18	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:572:MET:SD	12:L:834:GLN:NE2	2.59	0.76
15:S:96:LEU:HB3	15:s:96:LEU:HB3	1.66	0.76
1:A:39:GLU:CD	6:F:325:GLY:HA3	2.10	0.75
2:B:220:ILE:HA	2:B:223:GLU:OE1	1.85	0.75
8:H:102:ASN:HA	8:H:152:VAL:HG13	1.67	0.75
8:H:159:VAL:HG13	8:H:169:ASP:HB3	1.68	0.75
8:H:473:ARG:NH2	8:H:475:ASP:OD2	2.16	0.75
6:F:221:LEU:O	6:F:225:MET:HG2	1.86	0.75
9:I:33:LYS:HB3	9:I:36:ILE:HD11	1.68	0.75
11:K:246:LYS:O	11:K:249:LYS:HG2	1.85	0.75
13:P:153:TYR:OH	13:P:162:HIS:ND1	2.15	0.75
13:P:400:ALA:O	13:P:403:LEU:HG	1.86	0.75
6:F:52:ARG:NH2	6:F:72:ILE:HG13	2.00	0.75
8:H:535:ILE:HD11	8:H:550:GLN:HG2	1.68	0.75
12:L:261:LEU:CA	12:L:266:MET:HB2	2.16	0.75
13:P:221:ILE:HA	13:P:246:LEU:CD2	2.14	0.75
13:P:330:ARG:HB2	13:P:353:LEU:CD2	2.17	0.75
14:Q:54:PHE:HA	14:Q:57:PHE:HD2	1.51	0.75
3:C:72:LYS:HB3	3:C:74:ILE:HG13	1.68	0.75
3:C:533:GLN:O	3:C:537:LYS:HG3	1.86	0.75
5:E:150:GLU:OE1	8:H:293:LYS:NZ	2.17	0.75
6:F:211:ILE:HD11	6:F:239:LEU:HD21	1.67	0.75
6:F:350:LEU:CG	6:F:378:LEU:HD13	2.16	0.75
7:G:76:THR:HA	7:G:107:LYS:HE2	1.67	0.75
8:H:290:ARG:HA	8:H:299:ASN:OD1	1.86	0.75
8:H:711:ASP:O	8:H:714:LYS:HG3	1.86	0.75
13:P:221:ILE:HD13	13:P:244:LEU:HD22	1.68	0.75
3:C:166:GLU:CD	3:C:176:PRO:HG3	2.12	0.75
6:F:197:GLY:HA2	6:F:200:ILE:HD12	1.67	0.75
6:F:319:LEU:O	6:F:348:LYS:N	2.19	0.75
8:H:591:MET:SD	8:H:612:ILE:HB	2.27	0.75
11:K:237:LEU:O	11:K:241:LYS:HG2	1.87	0.75
12:L:31:ASN:HA	12:L:39:TYR:OH	1.85	0.75
1:A:210:ILE:O	1:A:214:ARG:HG3	1.86	0.75
1:A:242:MET:CE	2:B:233:LEU:HA	2.10	0.75
3:C:407:ASP:O	3:C:411:GLN:NE2	2.19	0.75
3:C:561:ASN:O	3:C:565:LYS:HG2	1.86	0.75
6:F:257:MET:SD	6:F:283:ALA:HA	2.26	0.75
7:G:15:ASP:OD2	7:G:53:ASN:ND2	2.18	0.75
8:H:66:ASN:OD1	8:H:108:LYS:NZ	2.19	0.75
8:H:611:VAL:N	8:H:620:ILE:O	2.20	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:779:ARG:HA	8:H:782:GLU:CD	2.12	0.75
10:J:171:PHE:O	10:J:175:GLN:HG2	1.87	0.75
10:J:256:ARG:HD2	11:K:323:LEU:CD1	2.16	0.75
12:L:675:GLU:OE2	12:L:720:THR:HB	1.87	0.75
13:P:363:ILE:HG21	13:P:367:PRO:HD3	1.67	0.75
9:i:81:GLU:HB3	9:i:82:PRO:HD3	1.69	0.75
2:B:63:PHE:HA	9:i:177:GLY:HA2	1.69	0.75
3:C:271:LEU:O	3:C:275:LYS:HG2	1.86	0.75
3:C:387:GLU:O	3:C:391:LEU:HG	1.87	0.75
3:C:402:LYS:HE3	3:C:553:ILE:HB	1.69	0.75
9:i:58:VAL:HG22	9:i:62:ILE:HD12	1.68	0.75
3:C:318:ASN:O	3:C:322:VAL:HG23	1.86	0.75
6:F:247:GLN:O	6:F:251:ARG:HG2	1.87	0.75
6:F:395:GLU:CG	6:F:402:MET:HA	2.17	0.75
6:F:421:LEU:HB2	6:F:428:PHE:CZ	2.22	0.75
7:G:134:HIS:HB2	7:G:137:ILE:HG12	1.69	0.75
8:H:591:MET:HG2	8:H:612:ILE:HB	1.67	0.75
10:J:356:ASP:CA	14:Q:38:PHE:CD1	2.70	0.75
11:K:269:LYS:HE3	11:K:270:GLU:HG3	1.69	0.75
12:L:446:LYS:CG	12:L:447:PRO:HD3	2.17	0.75
14:Q:31:LYS:HE2	14:Q:110:ILE:HG21	1.67	0.75
1:A:239:PHE:HE2	2:B:233:LEU:HB2	1.49	0.75
3:C:157:ILE:CG2	3:C:196:VAL:HG12	2.16	0.75
3:C:214:ILE:HG23	3:C:233:ARG:NH1	2.02	0.75
3:C:428:LYS:O	3:C:433:LYS:HG2	1.87	0.75
8:H:299:ASN:ND2	8:H:345:GLU:OE2	2.19	0.75
13:P:333:PRO:HA	13:P:336:ILE:CD1	2.16	0.75
3:C:72:LYS:HD2	3:C:74:ILE:HG12	1.69	0.74
3:C:297:ARG:HB3	3:C:500:MET:HE1	1.68	0.74
3:C:435:ILE:HG21	3:C:523:LEU:CD2	2.16	0.74
6:F:166:THR:O	6:F:207:LEU:HB2	1.87	0.74
8:H:496:GLN:O	8:H:529:ARG:NH1	2.20	0.74
10:J:210:GLN:O	10:J:214:LYS:HG2	1.85	0.74
11:K:44:ILE:CG2	11:K:196:VAL:HG12	2.17	0.74
12:L:102:ASN:HD22	12:L:111:SER:HB3	1.51	0.74
15:S:41:GLU:OE2	15:S:45:ARG:NH2	2.20	0.74
2:B:65:LYS:HB2	5:E:44:THR:HB	1.67	0.74
6:F:66:LEU:HD11	6:F:133:GLU:HA	1.67	0.74
7:G:232:SER:HB2	7:G:286:ARG:O	1.87	0.74
9:I:130:ILE:HG22	12:L:193:ARG:HH22	1.52	0.74
13:P:330:ARG:HH12	13:P:354:GLN:HG3	1.49	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:R:192:TYR:O	14:R:196:VAL:HG23	1.87	0.74
9:i:77:TYR:OH	9:i:81:GLU:OE1	2.01	0.74
1:A:5:GLN:NE2	1:A:172:ASN:HB2	2.01	0.74
2:B:57:GLU:HB2	5:E:34:LYS:C	2.12	0.74
3:C:152:LEU:HB2	3:C:188:PHE:HE1	1.51	0.74
3:C:212:HIS:HD1	3:C:246:TYR:HH	1.35	0.74
3:C:214:ILE:HA	3:C:217:ILE:HB	1.69	0.74
6:F:325:GLY:HA2	6:F:354:ASN:O	1.87	0.74
6:F:375:LEU:HD12	6:F:376:ALA:H	1.51	0.74
12:L:171:TYR:HE1	12:L:613:ARG:HD2	1.50	0.74
12:L:249:SER:O	12:L:253:VAL:HG23	1.86	0.74
12:L:260:GLU:CG	12:L:264:LEU:HD12	2.16	0.74
12:L:832:PHE:CZ	12:L:836:VAL:HG21	2.22	0.74
13:P:113:ASP:HB3	13:P:116:THR:HB	1.68	0.74
13:P:117:LEU:HD23	13:P:120:ILE:CD1	2.17	0.74
9:i:118:ILE:HG12	9:i:121:MET:HE2	1.69	0.74
15:s:75:THR:HA	15:s:78:MET:SD	2.28	0.74
3:C:419:ILE:HG23	8:H:231:ASN:HB3	1.68	0.74
6:F:55:ILE:O	6:F:59:ILE:HG13	1.87	0.74
7:G:203:MET:HB3	7:G:231:LEU:HD22	1.69	0.74
8:H:556:VAL:HB	8:H:559:ARG:NH2	2.02	0.74
9:I:116:ILE:HB	9:I:121:MET:HE3	1.69	0.74
11:K:253:GLU:HA	11:K:256:GLU:CD	2.13	0.74
12:L:123:LEU:CD1	12:L:125:LEU:HB2	2.17	0.74
12:L:134:ILE:CG2	12:L:627:GLU:HG2	2.17	0.74
2:B:41:GLN:HB2	4:D:37:LYS:HZ2	1.51	0.74
3:C:69:LEU:HD12	3:C:91:LEU:CD2	2.17	0.74
6:F:152:ASN:HA	6:F:192:GLU:OE2	1.87	0.74
7:G:112:GLU:HB3	7:G:142:LEU:HG	1.68	0.74
10:J:152:LEU:HB3	11:K:200:LYS:HE2	1.67	0.74
12:L:750:MET:SD	12:L:754:LYS:NZ	2.61	0.74
13:P:235:PHE:HB2	13:P:240:ILE:HG22	1.70	0.74
14:R:143:THR:HG21	14:R:146:GLU:HG3	1.69	0.74
15:S:110:LYS:HE3	15:s:107:ILE:HA	1.68	0.74
1:A:42:GLN:NE2	1:A:46:ARG:HH21	1.86	0.74
11:K:181:ASN:HB3	11:K:184:LEU:HG	1.69	0.74
12:L:726:CYS:CB	12:L:731:ILE:HD11	2.16	0.74
13:P:278:TYR:CE1	13:P:348:LEU:HD11	2.23	0.74
1:A:5:GLN:HG2	1:A:169:GLU:HG2	1.68	0.74
3:C:66:GLN:HB3	3:C:88:LYS:HB3	1.70	0.74
6:F:222:ARG:HA	6:F:225:MET:CE	2.18	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:321:LEU:N	6:F:349:VAL:O	2.19	0.74
7:G:170:GLU:HB3	7:G:199:LYS:HD2	1.69	0.74
8:H:111:CYS:SG	8:H:329:PHE:HB2	2.28	0.74
8:H:288:LEU:HD22	8:H:301:PHE:HE1	1.52	0.74
8:H:613:ASP:HB3	8:H:616:LYS:HG2	1.70	0.74
12:L:308:LEU:HB3	12:L:442:LYS:NZ	2.03	0.74
9:i:38:ASP:HA	9:i:74:PHE:HD2	1.52	0.74
15:s:124:LYS:O	15:s:127:LYS:HG3	1.88	0.74
2:B:57:GLU:N	5:E:36:LYS:H	1.84	0.74
3:C:154:VAL:HG13	3:C:193:VAL:HG11	1.69	0.74
5:E:58:ASN:ND2	12:L:265:GLY:HA2	2.03	0.74
7:G:72:MET:HA	7:G:75:LEU:HD12	1.69	0.74
8:H:477:LEU:HD21	8:H:480:ARG:HD3	1.69	0.74
8:H:594:LYS:HG3	8:H:609:LYS:CG	2.17	0.74
10:J:214:LYS:O	10:J:217:ARG:HG3	1.87	0.74
12:L:60:ILE:HG22	12:L:64:LEU:CD1	2.17	0.74
12:L:68:TYR:HB2	12:L:80:LEU:CD2	2.13	0.74
12:L:73:HIS:HB3	12:L:76:LYS:CB	2.17	0.74
12:L:243:TYR:HD2	9:i:101:LEU:HD13	1.51	0.74
13:P:282:ILE:HD11	14:R:173:GLU:HB2	1.70	0.74
3:C:37:GLU:HA	3:C:40:ILE:HB	1.68	0.74
12:L:575:PRO:O	12:L:742:PRO:HG3	1.86	0.74
13:P:329:THR:OG1	13:P:356:ARG:NE	2.21	0.74
15:S:28:LYS:O	15:S:32:LEU:HG	1.88	0.74
15:S:110:LYS:CE	15:s:110:LYS:HD2	2.15	0.74
15:S:136:LYS:O	15:S:140:GLU:HG2	1.88	0.74
1:A:176:GLU:O	1:A:180:LYS:HG2	1.87	0.74
1:A:212:ASP:OD1	1:A:213:LEU:N	2.20	0.74
2:B:44:LYS:HB3	4:D:37:LYS:HD2	1.69	0.74
3:C:74:ILE:HG22	3:C:96:ILE:HD11	1.69	0.74
3:C:160:ASN:O	3:C:200:PRO:HD3	1.87	0.74
3:C:305:GLN:NE2	3:C:308:GLU:OE1	2.20	0.74
8:H:61:ARG:NH1	8:H:65:GLU:OE2	2.20	0.74
8:H:260:ARG:O	8:H:264:THR:OG1	2.01	0.74
12:L:58:ILE:HG22	12:L:62:LYS:HE3	1.68	0.74
12:L:102:ASN:HB3	12:L:109:TYR:O	1.88	0.74
12:L:156:LEU:HB3	12:L:514:VAL:HG11	1.70	0.74
12:L:606:TYR:HB2	12:L:736:ASP:H	1.52	0.74
13:P:315:LEU:CD2	14:R:175:ALA:HB2	2.17	0.74
13:P:325:ILE:HG12	14:R:171:SER:CB	2.18	0.74
15:S:121:TYR:O	15:S:125:LEU:HG	1.88	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:270:MET:SD	2:B:265:ILE:HG21	2.27	0.73
3:C:86:LEU:HD23	3:C:105:LEU:HD21	1.68	0.73
6:F:366:LYS:O	6:F:370:THR:N	2.21	0.73
7:G:26:LYS:HE2	7:G:30:GLU:OE2	1.87	0.73
7:G:198:LEU:H	14:Q:24:LYS:H	1.35	0.73
8:H:611:VAL:HB	8:H:620:ILE:CB	2.14	0.73
10:J:187:THR:CG2	11:K:251:LYS:HB3	2.16	0.73
10:J:202:LYS:CE	11:K:265:VAL:HG22	2.18	0.73
12:L:661:ALA:HB1	12:L:714:VAL:CG1	2.17	0.73
13:P:293:LYS:HG3	14:R:176:ASN:H	1.52	0.73
2:B:47:ARG:HB2	4:D:40:MET:HG3	1.70	0.73
3:C:212:HIS:ND1	3:C:246:TYR:OH	2.20	0.73
8:H:5:GLU:O	8:H:8:TYR:CE2	2.40	0.73
10:J:355:LYS:HG2	14:Q:50:TYR:CE1	2.23	0.73
11:K:192:HIS:O	11:K:196:VAL:HG23	1.88	0.73
13:P:249:LYS:HZ1	13:P:357:LEU:HA	1.52	0.73
13:P:327:TYR:HB2	13:P:357:LEU:HB3	1.70	0.73
13:P:382:GLN:O	13:P:385:LEU:HG	1.87	0.73
2:B:61:VAL:O	2:B:61:VAL:HG12	1.87	0.73
2:B:203:PHE:HA	2:B:206:GLU:CD	2.13	0.73
3:C:32:PRO:O	3:C:33:ARG:HD2	1.88	0.73
6:F:321:LEU:HD23	6:F:350:LEU:CD1	2.17	0.73
8:H:474:SER:CB	8:H:700:ARG:HB2	2.18	0.73
10:J:234:LEU:HD11	11:K:295:LYS:HE3	1.68	0.73
1:A:242:MET:HE1	2:B:233:LEU:CA	2.10	0.73
2:B:46:LYS:HE3	5:E:20:TYR:HA	1.70	0.73
2:B:49:GLY:O	2:B:53:ARG:HD2	1.87	0.73
3:C:393:THR:O	3:C:396:GLN:HG3	1.89	0.73
6:F:76:SER:HB2	6:F:80:ARG:HH12	1.53	0.73
6:F:91:LYS:O	6:F:109:ARG:NH1	2.20	0.73
9:I:18:LEU:HD21	9:I:88:LEU:HB2	1.70	0.73
9:I:48:TYR:HE1	12:L:198:ILE:HG23	1.53	0.73
10:J:146:LEU:HB3	11:K:40:MET:HG2	1.68	0.73
2:B:93:GLN:OE1	2:B:97:ARG:NH2	2.21	0.73
7:G:266:ILE:O	7:G:270:ILE:HG13	1.87	0.73
8:H:6:GLY:C	8:H:8:TYR:CG	2.67	0.73
8:H:474:SER:OG	8:H:700:ARG:HB2	1.89	0.73
3:C:338:GLU:HB3	3:C:423:TYR:CE1	2.19	0.73
6:F:325:GLY:CA	6:F:354:ASN:HB2	2.19	0.73
7:G:143:LYS:C	7:G:169:LEU:HD11	2.14	0.73
7:G:203:MET:HB3	7:G:231:LEU:CD2	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:343:ASN:O	8:H:353:TRP:NE1	2.21	0.73
8:H:347:MET:HA	8:H:353:TRP:HB2	1.70	0.73
10:J:155:LEU:HD22	11:K:223:ILE:CD1	2.18	0.73
12:L:155:ALA:O	12:L:158:LEU:HG	1.88	0.73
13:P:361:PHE:HB2	14:R:171:SER:HB3	1.69	0.73
14:Q:190:ILE:HG22	14:Q:191:ASN:H	1.54	0.73
14:R:70:LEU:O	14:R:74:LEU:HG	1.88	0.73
1:A:108:LYS:HB3	1:A:112:ARG:HH12	1.53	0.73
2:B:49:GLY:HA2	5:E:32:LEU:HD21	1.70	0.73
2:B:98:GLU:O	2:B:102:LYS:HG2	1.88	0.73
6:F:190:LEU:HD23	6:F:220:LEU:HD21	1.68	0.73
6:F:285:LYS:CE	6:F:314:LEU:HD12	2.18	0.73
10:J:239:ASN:O	10:J:242:LYS:HG3	1.88	0.73
10:J:304:GLU:HA	10:J:307:GLU:CD	2.13	0.73
12:L:149:ARG:HH12	12:L:630:ALA:HA	1.54	0.73
12:L:749:ARG:NE	12:L:774:ALA:HA	2.03	0.73
13:P:263:LYS:CA	14:R:160:LYS:HB3	2.18	0.73
13:P:293:LYS:HA	14:R:177:GLU:HB2	1.70	0.73
15:S:124:LYS:O	15:S:127:LYS:HG3	1.89	0.73
1:A:177:PHE:HD2	2:B:167:MET:HE2	1.54	0.73
2:B:49:GLY:HA2	5:E:32:LEU:CD2	2.19	0.73
2:B:87:GLU:HG2	2:B:91:TYR:CE2	2.23	0.73
2:B:125:ARG:HD2	6:F:269:ASN:HD21	1.54	0.73
3:C:175:LYS:HZ1	3:C:183:ASN:HB2	1.54	0.73
7:G:88:LEU:HB3	7:G:91:VAL:CG1	2.18	0.73
8:H:209:LEU:O	8:H:467:ARG:NH2	2.17	0.73
8:H:488:LYS:HD2	8:H:516:ILE:HD11	1.71	0.73
10:J:288:ILE:HG12	11:K:352:LYS:CG	2.18	0.73
11:K:261:GLU:O	11:K:264:GLU:HG3	1.88	0.73
13:P:337:PRO:HB2	13:P:340:LYS:HD2	1.71	0.73
14:R:53:ASN:HB2	14:R:73:LEU:HG	1.70	0.73
2:B:46:LYS:HA	5:E:28:LEU:HD11	1.70	0.73
2:B:59:LYS:N	5:E:36:LYS:O	2.20	0.73
3:C:174:TYR:HB2	3:C:216:ALA:HB1	1.69	0.73
6:F:151:GLN:NE2	6:F:153:ILE:HD13	2.04	0.73
7:G:237:ASP:HA	7:G:289:ASN:HB3	1.70	0.73
15:S:110:LYS:HE2	15:s:110:LYS:CD	2.17	0.73
9:i:80:PHE:CD1	9:i:84:MET:HE1	2.23	0.73
1:A:270:MET:O	1:A:273:GLU:HG3	1.88	0.73
8:H:81:LYS:NZ	8:H:99:TYR:OH	2.21	0.73
10:J:176:GLU:HG3	11:K:240:LEU:HD23	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:187:THR:HG21	11:K:251:LYS:CB	2.18	0.73
15:S:133:GLN:OE1	15:S:136:LYS:NZ	2.16	0.73
9:i:120:MET:HG2	9:i:124:PHE:HE2	1.54	0.73
1:A:213:LEU:HB3	2:B:207:THR:HG21	1.69	0.72
2:B:159:GLU:HB3	4:D:152:ARG:NH2	2.03	0.72
7:G:72:MET:CE	7:G:101:ILE:HA	2.17	0.72
7:G:191:LEU:CB	7:G:219:ALA:HB1	2.19	0.72
8:H:328:ASN:HB3	8:H:330:TRP:CH2	2.24	0.72
9:I:160:ILE:HA	9:I:163:LEU:CD2	2.19	0.72
12:L:310:ARG:O	12:L:313:LYS:HG3	1.89	0.72
15:s:146:PHE:CZ	15:s:150:LEU:HD11	2.23	0.72
1:A:275:LYS:HA	1:A:275:LYS:HE3	1.70	0.72
3:C:264:GLU:O	3:C:268:ARG:HD2	1.89	0.72
3:C:285:LEU:HD22	3:C:512:HIS:ND1	2.04	0.72
8:H:156:PRO:HB2	8:H:411:ILE:CD1	2.15	0.72
8:H:556:VAL:HB	8:H:559:ARG:HH21	1.53	0.72
13:P:299:PHE:HB3	13:P:312:SER:O	1.88	0.72
9:i:142:GLU:O	9:i:147:LYS:N	2.19	0.72
6:F:62:ASP:HA	6:F:85:ARG:HH22	1.54	0.72
6:F:363:GLU:O	6:F:367:THR:OG1	2.04	0.72
7:G:72:MET:HE3	7:G:104:TYR:HB3	1.71	0.72
8:H:181:VAL:O	8:H:294:ARG:NH2	2.22	0.72
13:P:391:GLU:HA	13:P:394:GLU:OE1	1.90	0.72
2:B:41:GLN:HB2	4:D:37:LYS:NZ	2.03	0.72
3:C:433:LYS:O	3:C:437:GLU:HG2	1.89	0.72
7:G:38:LYS:O	7:G:42:GLU:HG2	1.89	0.72
7:G:142:LEU:HB3	7:G:170:GLU:OE1	1.88	0.72
9:I:51:GLN:HB3	9:I:93:TYR:HB2	1.70	0.72
10:J:256:ARG:HD2	11:K:323:LEU:HD11	1.70	0.72
12:L:24:GLU:O	12:L:27:PRO:HD2	1.90	0.72
8:H:124:LEU:HD21	8:H:177:LEU:HG	1.71	0.72
8:H:530:ASN:HD21	8:H:534:LEU:HB3	1.53	0.72
10:J:356:ASP:CG	14:Q:38:PHE:CD1	2.67	0.72
12:L:89:VAL:HG13	12:L:601:LEU:CD2	2.19	0.72
14:Q:81:PHE:HB2	14:Q:86:LEU:HD11	1.70	0.72
2:B:62:THR:HA	5:E:44:THR:HG21	1.70	0.72
2:B:266:ASP:HB3	2:B:270:ARG:NH1	2.03	0.72
6:F:166:THR:OG1	6:F:207:LEU:HD12	1.90	0.72
6:F:320:GLU:CA	6:F:349:VAL:HB	2.18	0.72
7:G:165:MET:HE2	7:G:193:PHE:HE1	1.55	0.72
8:H:116:PRO:CA	8:H:176:SER:HB3	2.16	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:168:PHE:O	8:H:172:ILE:HG12	1.89	0.72
10:J:149:GLN:HG3	11:K:197:ILE:HG23	1.71	0.72
10:J:191:ILE:HG23	11:K:258:LEU:HD11	1.72	0.72
12:L:229:GLU:O	12:L:232:GLU:HG2	1.90	0.72
12:L:526:SER:N	12:L:529:ASP:OD2	2.19	0.72
2:B:55:LYS:CG	2:B:60:VAL:HG21	2.19	0.72
2:B:166:GLU:O	2:B:170:THR:HG23	1.88	0.72
2:B:228:LYS:HE2	2:B:229:TYR:HE1	1.53	0.72
2:B:257:HIS:O	2:B:261:ARG:HG2	1.89	0.72
3:C:378:GLU:HG2	3:C:387:GLU:CG	2.20	0.72
8:H:522:ILE:HG12	8:H:538:VAL:HG22	1.72	0.72
8:H:549:TYR:CB	8:H:557:ILE:HA	2.20	0.72
10:J:353:GLU:O	10:J:355:LYS:HD2	1.88	0.72
13:P:282:ILE:HD11	13:P:325:ILE:HG23	1.71	0.72
3:C:54:ILE:HG12	8:H:660:PRO:HG2	1.72	0.72
3:C:263:LYS:HA	3:C:266:MET:HE2	1.72	0.72
4:D:64:GLU:OE2	4:D:68:ILE:HD11	1.89	0.72
7:G:54:ILE:N	7:G:80:TYR:OH	2.19	0.72
7:G:318:PRO:HG2	7:G:321:LEU:HD12	1.71	0.72
8:H:806:GLU:HG2	8:H:809:ARG:HE	1.55	0.72
10:J:55:TYR:CE1	10:J:81:ILE:HG23	2.24	0.72
12:L:61:TYR:CE2	12:L:132:ILE:HG23	2.24	0.72
13:P:313:PHE:H	14:R:160:LYS:HE3	1.55	0.72
13:P:392:ARG:NH2	13:P:396:GLU:OE2	2.17	0.72
9:i:25:ALA:HB1	9:i:45:ILE:HG23	1.71	0.72
6:F:350:LEU:HG	6:F:378:LEU:HD13	1.71	0.72
8:H:288:LEU:HD13	8:H:301:PHE:CE1	2.25	0.72
8:H:609:LYS:O	8:H:622:TYR:N	2.23	0.72
12:L:124:LYS:O	12:L:124:LYS:HD3	1.89	0.72
13:P:295:VAL:HG13	14:R:180:LYS:HE3	1.72	0.72
14:Q:93:PHE:CD1	14:Q:107:ALA:HB1	2.24	0.72
1:A:130:LEU:HA	1:A:133:GLN:NE2	2.05	0.72
2:B:56:ASP:H	5:E:36:LYS:CB	2.02	0.72
7:G:58:HIS:O	7:G:59:LEU:HD23	1.90	0.72
7:G:167:SER:HB2	14:Q:26:ILE:C	2.15	0.72
7:G:198:LEU:CD2	14:Q:24:LYS:HD3	2.18	0.72
8:H:456:GLN:HG2	8:H:464:LYS:HG2	1.72	0.72
8:H:558:TYR:HB3	8:H:594:LYS:HE2	1.72	0.72
12:L:73:HIS:HB3	12:L:76:LYS:HB3	1.70	0.72
13:P:285:VAL:HB	13:P:323:MET:HG2	1.71	0.72
14:R:104:ASN:OD1	14:R:107:ALA:N	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:213:ILE:HG22	3:C:217:ILE:CD1	2.20	0.71
3:C:411:GLN:HA	3:C:414:GLU:OE1	1.88	0.71
6:F:65:ILE:HA	6:F:68:MET:HG2	1.72	0.71
6:F:319:LEU:HD22	6:F:346:GLY:O	1.90	0.71
12:L:738:LYS:HD2	12:L:836:VAL:HG12	1.72	0.71
12:L:821:THR:HG23	12:L:825:GLU:OE1	1.89	0.71
13:P:314:GLU:HB3	14:R:159:PHE:CD2	2.20	0.71
14:Q:190:ILE:HG22	14:Q:191:ASN:N	2.05	0.71
2:B:191:LYS:O	2:B:194:GLU:HG3	1.90	0.71
3:C:548:GLN:CD	8:H:629:GLU:HA	2.15	0.71
5:E:24:THR:O	5:E:28:LEU:HD23	1.90	0.71
8:H:193:PRO:HD2	8:H:196:ILE:HD12	1.71	0.71
11:K:328:ARG:HA	11:K:331:GLN:NE2	2.06	0.71
12:L:243:TYR:HE2	9:i:101:LEU:HB2	1.55	0.71
13:P:183:CYS:O	13:P:243:VAL:HG13	1.90	0.71
13:P:263:LYS:HA	14:R:160:LYS:CB	2.19	0.71
2:B:59:LYS:O	5:E:40:ASN:ND2	2.23	0.71
2:B:62:THR:OG1	9:i:179:ASN:ND2	2.23	0.71
3:C:388:GLU:HG3	3:C:564:LEU:CD1	2.19	0.71
3:C:461:LYS:HG3	3:C:497:LEU:CD2	2.20	0.71
7:G:34:ILE:HD13	7:G:67:GLY:HA2	1.72	0.71
8:H:73:VAL:O	8:H:77:VAL:HG23	1.90	0.71
10:J:176:GLU:HG3	11:K:240:LEU:CD2	2.20	0.71
10:J:353:GLU:HB2	14:Q:42:PHE:CE2	2.25	0.71
1:A:46:ARG:NH1	6:F:299:ASN:HB2	2.04	0.71
7:G:292:LYS:HB3	7:G:318:PRO:HG3	1.71	0.71
8:H:534:LEU:HD13	8:H:547:MET:SD	2.30	0.71
9:I:169:LYS:O	9:I:172:GLU:HG3	1.89	0.71
11:K:414:PHE:HD1	14:R:55:ALA:HB1	1.55	0.71
12:L:524:PRO:HA	12:L:626:HIS:HB2	1.72	0.71
13:P:317:LEU:HB2	14:R:162:LEU:HB3	1.71	0.71
1:A:17:ARG:HD3	6:F:426:ILE:HD12	1.72	0.71
2:B:236:MET:HG2	2:B:239:LYS:CE	2.20	0.71
3:C:166:GLU:OE1	3:C:169:THR:HG21	1.90	0.71
6:F:168:LEU:HD23	6:F:206:LEU:CD1	2.20	0.71
7:G:134:HIS:HB2	7:G:137:ILE:CG1	2.21	0.71
7:G:221:LYS:HB3	14:Q:99:GLU:HB2	1.72	0.71
8:H:124:LEU:CD1	8:H:130:CYS:HB2	2.19	0.71
12:L:24:GLU:OE1	12:L:90:ARG:NH2	2.23	0.71
13:P:320:GLN:CG	14:R:163:LEU:HA	2.21	0.71
15:S:172:PRO:HA	15:S:175:MET:HE2	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:174:THR:HG21	6:F:185:SER:HB2	1.71	0.71
8:H:139:GLN:H	8:H:423:PRO:HG2	1.55	0.71
10:J:216:ALA:HA	11:K:280:LEU:HD22	1.72	0.71
12:L:339:ASN:ND2	12:L:343:GLU:O	2.21	0.71
12:L:695:MET:HG2	12:L:699:LEU:HD23	1.71	0.71
14:Q:154:ILE:O	14:Q:189:ARG:NE	2.24	0.71
15:S:178:LEU:HA	15:S:181:MET:HG2	1.71	0.71
15:s:55:ALA:CA	15:s:58:PHE:HB3	2.19	0.71
1:A:36:LEU:HG	6:F:354:ASN:HA	1.73	0.71
7:G:144:LEU:H	7:G:169:LEU:HD21	1.56	0.71
7:G:195:ASN:HB3	14:Q:27:ILE:CB	2.20	0.71
12:L:6:TYR:CD1	12:L:67:CYS:HA	2.26	0.71
12:L:604:MET:HE3	12:L:736:ASP:CB	2.20	0.71
12:L:731:ILE:HD13	12:L:832:PHE:HZ	1.55	0.71
13:P:177:LEU:HD13	13:P:355:LEU:HG	1.72	0.71
13:P:317:LEU:CA	14:R:162:LEU:HB3	2.20	0.71
13:P:318:TYR:H	14:R:163:LEU:CD2	2.03	0.71
14:Q:47:LYS:O	14:Q:51:GLN:HG3	1.90	0.71
15:S:142:MET:HE1	15:s:142:MET:HB3	1.72	0.71
9:i:33:LYS:HB2	9:i:36:ILE:HD11	1.73	0.71
3:C:391:LEU:HB2	3:C:564:LEU:HD11	1.72	0.71
8:H:428:THR:HG23	8:H:437:ASP:OD1	1.90	0.71
8:H:611:VAL:CB	8:H:620:ILE:HB	2.15	0.71
10:J:203:ALA:O	10:J:206:GLN:HG3	1.90	0.71
12:L:509:ILE:HG23	12:L:656:SER:HB2	1.72	0.71
13:P:315:LEU:CD2	14:R:163:LEU:HD12	2.20	0.71
15:S:107:ILE:HA	15:S:110:LYS:HZ3	1.54	0.71
15:S:139:ILE:O	15:S:142:MET:HG3	1.90	0.71
3:C:79:HIS:NE2	10:J:222:THR:OG1	2.18	0.71
3:C:132:ASP:HA	3:C:154:VAL:HB	1.71	0.71
3:C:135:LEU:N	3:C:156:SER:O	2.22	0.71
4:D:220:LEU:HD11	5:E:208:LEU:HD23	1.73	0.71
6:F:93:ILE:HD13	6:F:105:ALA:HB3	1.72	0.71
8:H:47:LEU:HD21	8:H:151:LEU:HD22	1.72	0.71
8:H:704:THR:HG23	8:H:707:ASP:H	1.56	0.71
8:H:806:GLU:O	8:H:809:ARG:HG3	1.90	0.71
11:K:212:HIS:CA	11:K:216:LEU:HB2	2.19	0.71
12:L:61:TYR:OH	12:L:133:PRO:O	2.09	0.71
12:L:336:LEU:HD12	12:L:341:PHE:HA	1.72	0.71
13:P:293:LYS:NZ	14:R:178:PHE:HB3	2.06	0.71
14:R:88:GLU:O	14:R:92:GLU:HG2	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:S:86:GLN:HG3	15:s:89:LEU:HD11	1.72	0.71
2:B:148:GLU:HA	2:B:151:ARG:HD2	1.72	0.71
3:C:141:GLU:HA	3:C:162:LEU:HD23	1.73	0.71
7:G:92:LYS:N	7:G:119:ASN:OD1	2.23	0.71
8:H:145:PRO:HG2	8:H:148:GLU:HB2	1.72	0.71
10:J:355:LYS:HE2	14:Q:50:TYR:OH	1.90	0.71
12:L:677:ILE:HA	12:L:693:ALA:HA	1.72	0.71
15:S:103:LYS:HB3	15:s:103:LYS:CE	2.20	0.71
15:s:172:PRO:HA	15:s:175:MET:HE2	1.73	0.71
2:B:38:GLN:HA	2:B:41:GLN:HG2	1.72	0.70
6:F:252:ILE:HD13	6:F:267:LEU:CD1	2.21	0.70
7:G:18:THR:HG21	7:G:47:ALA:HB3	1.73	0.70
8:H:5:GLU:C	8:H:8:TYR:CZ	2.68	0.70
8:H:682:GLN:O	8:H:686:ILE:HG12	1.91	0.70
9:I:105:PHE:CD2	9:I:160:ILE:HD11	2.25	0.70
10:J:10:THR:HG23	10:J:127:ILE:CG2	2.21	0.70
11:K:427:LYS:N	14:Q:161:GLU:OE2	2.23	0.70
8:H:184:ASP:HB3	8:H:290:ARG:O	1.91	0.70
10:J:231:GLN:NE2	11:K:294:LYS:HG3	2.05	0.70
12:L:160:TYR:HB3	12:L:517:ARG:NH2	2.03	0.70
2:B:48:GLU:HG3	4:D:40:MET:HB3	1.73	0.70
2:B:75:ILE:HG23	2:B:76:MET:SD	2.30	0.70
3:C:154:VAL:HG22	3:C:193:VAL:CG2	2.21	0.70
6:F:222:ARG:HA	6:F:225:MET:HE2	1.73	0.70
6:F:300:LEU:N	6:F:326:ASN:OD1	2.18	0.70
7:G:39:LEU:HD12	7:G:61:GLU:OE2	1.92	0.70
7:G:96:GLU:O	7:G:100:THR:HG23	1.92	0.70
8:H:193:PRO:HD3	8:H:316:PRO:O	1.91	0.70
10:J:273:TRP:O	10:J:277:VAL:HG23	1.90	0.70
13:P:177:LEU:CD1	13:P:358:ARG:HB2	2.20	0.70
13:P:278:TYR:HE1	13:P:348:LEU:HD11	1.55	0.70
3:C:237:ARG:HH22	3:C:242:ILE:HG22	1.56	0.70
7:G:133:LEU:HD13	7:G:139:ILE:CD1	2.21	0.70
8:H:543:GLU:O	8:H:563:PHE:N	2.24	0.70
10:J:299:GLN:HB3	10:J:303:ARG:NH2	2.07	0.70
11:K:310:ALA:HA	11:K:313:LYS:HE2	1.73	0.70
14:Q:31:LYS:HZ3	14:Q:110:ILE:HD13	1.54	0.70
2:B:63:PHE:HE1	2:B:67:LYS:HD2	1.56	0.70
7:G:63:LEU:HB2	7:G:68:VAL:CG2	2.22	0.70
8:H:708:LYS:O	8:H:712:ARG:NH1	2.25	0.70
10:J:302:LEU:HD13	11:K:366:VAL:HA	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:466:ASP:O	12:L:470:LEU:HD23	1.91	0.70
12:L:738:LYS:NZ	12:L:836:VAL:HB	2.06	0.70
13:P:171:LYS:HG2	13:P:176:ASN:CB	2.22	0.70
13:P:282:ILE:HG12	13:P:326:GLU:N	2.06	0.70
15:s:129:ASP:O	15:s:133:GLN:HG2	1.91	0.70
2:B:13:THR:C	2:B:15:PRO:HD2	2.16	0.70
7:G:125:GLY:O	7:G:129:LEU:HG	1.92	0.70
7:G:182:GLU:OE2	7:G:185:LYS:NZ	2.16	0.70
8:H:522:ILE:HG12	8:H:538:VAL:CG1	2.20	0.70
10:J:55:TYR:HB2	10:J:84:VAL:HG11	1.73	0.70
10:J:112:VAL:CG2	11:K:54:ILE:HD12	2.22	0.70
11:K:87:ASP:HB2	11:K:91:HIS:CE1	2.26	0.70
12:L:446:LYS:HG2	12:L:447:PRO:HD3	1.73	0.70
13:P:146:THR:O	13:P:245:ILE:HD12	1.90	0.70
13:P:221:ILE:CD1	13:P:244:LEU:HD22	2.21	0.70
13:P:282:ILE:HG12	13:P:326:GLU:H	1.56	0.70
1:A:49:ASP:CA	1:A:53:ARG:HB2	2.22	0.70
1:A:188:HIS:CE1	2:B:182:ILE:HG12	2.26	0.70
2:B:163:GLU:HG3	4:D:159:LYS:NZ	2.06	0.70
2:B:266:ASP:HB3	2:B:270:ARG:HH12	1.57	0.70
6:F:222:ARG:HD3	6:F:247:GLN:NE2	2.06	0.70
6:F:321:LEU:HD23	6:F:350:LEU:HD12	1.72	0.70
7:G:143:LYS:CG	7:G:171:LYS:HB2	2.14	0.70
7:G:326:LYS:HZ2	12:L:471:ARG:HE	1.37	0.70
12:L:465:LEU:HA	12:L:468:VAL:HG22	1.73	0.70
12:L:661:ALA:HA	12:L:667:ALA:CB	2.22	0.70
13:P:270:MET:CE	13:P:272:ASP:HB3	2.21	0.70
13:P:278:TYR:CD2	13:P:336:ILE:HG23	2.27	0.70
15:S:103:LYS:CB	15:s:103:LYS:HE2	2.21	0.70
6:F:96:GLU:CD	6:F:97:GLU:HG3	2.17	0.70
6:F:443:LEU:HD23	6:F:447:LYS:HD2	1.72	0.70
8:H:118:LYS:HZ2	8:H:181:VAL:HA	1.56	0.70
10:J:241:LEU:O	10:J:245:THR:HG23	1.92	0.70
12:L:305:ILE:CD1	12:L:445:ILE:HD11	2.21	0.70
15:s:62:LYS:HD3	15:s:65:LYS:HD3	1.72	0.70
1:A:39:GLU:HG3	1:A:43:LYS:HZ3	1.57	0.70
5:E:58:ASN:HD22	12:L:265:GLY:HA2	1.57	0.70
8:H:407:TRP:CG	8:H:408:PRO:HD3	2.26	0.70
10:J:227:TYR:HE2	11:K:287:LEU:HG	1.55	0.70
12:L:10:TRP:CZ3	12:L:76:LYS:HG2	2.25	0.70
12:L:305:ILE:HD12	12:L:445:ILE:HD11	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:P:104:SER:N	13:P:107:SER:O	2.25	0.70
1:A:106:GLU:OE1	1:A:110:ASN:ND2	2.25	0.70
2:B:159:GLU:HB3	4:D:152:ARG:CZ	2.22	0.70
3:C:199:ASN:HB2	3:C:202:THR:HG23	1.74	0.70
3:C:322:VAL:HA	3:C:325:GLN:OE1	1.92	0.70
3:C:530:TYR:O	3:C:534:GLN:HG2	1.91	0.70
6:F:142:HIS:O	6:F:166:THR:HG22	1.91	0.70
6:F:171:THR:HG23	6:F:213:ALA:HB3	1.74	0.70
6:F:421:LEU:HB2	6:F:428:PHE:CE1	2.27	0.70
7:G:39:LEU:CB	7:G:59:LEU:HD22	2.20	0.70
7:G:165:MET:HE2	7:G:193:PHE:CE1	2.27	0.70
8:H:549:TYR:N	8:H:557:ILE:O	2.25	0.70
8:H:779:ARG:CZ	8:H:818:LEU:HD21	2.21	0.70
11:K:305:LEU:HB3	11:K:309:PHE:CZ	2.25	0.70
11:K:380:LYS:HD3	11:K:384:ARG:NH2	2.07	0.70
13:P:276:GLY:N	13:P:333:PRO:HG3	2.07	0.70
13:P:321:ASP:HB2	14:R:167:GLY:C	2.17	0.70
13:P:402:ARG:O	13:P:405:GLN:HG3	1.92	0.70
9:i:62:ILE:O	9:i:66:ILE:HG12	1.92	0.70
7:G:28:LYS:HE2	7:G:71:ILE:HG12	1.74	0.69
8:H:121:PHE:HB3	8:H:123:GLU:OE1	1.92	0.69
8:H:174:LEU:O	8:H:178:LEU:HG	1.92	0.69
8:H:564:ASP:CB	8:H:589:THR:HG21	2.22	0.69
10:J:207:LEU:O	10:J:210:GLN:HG3	1.91	0.69
10:J:299:GLN:NE2	11:K:358:GLU:O	2.25	0.69
12:L:10:TRP:HZ3	12:L:76:LYS:HG2	1.56	0.69
12:L:674:PHE:CE1	12:L:695:MET:HE1	2.27	0.69
13:P:295:VAL:CB	14:R:176:ASN:HB3	2.21	0.69
1:A:166:PHE:CE2	2:B:156:LEU:HG	2.27	0.69
3:C:282:LEU:HD23	3:C:515:ILE:HG22	1.73	0.69
3:C:521:MET:O	3:C:525:LYS:HG2	1.92	0.69
6:F:235:ILE:HG23	6:F:263:LEU:HG	1.73	0.69
8:H:513:VAL:HG11	8:H:521:ARG:HE	1.57	0.69
8:H:753:VAL:O	8:H:757:ILE:HG13	1.92	0.69
10:J:356:ASP:C	14:Q:38:PHE:CZ	2.70	0.69
12:L:749:ARG:HH21	12:L:777:THR:HG21	1.56	0.69
15:S:25:LEU:HD13	15:s:25:LEU:CB	2.21	0.69
15:S:53:LEU:O	15:S:57:LEU:HD13	1.90	0.69
1:A:284:ARG:O	1:A:288:LEU:HG	1.92	0.69
3:C:168:ILE:HD12	3:C:213:ILE:HD13	1.74	0.69
8:H:168:PHE:CE1	8:H:285:CYS:HB2	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:379:ASP:HB3	8:H:381:LEU:CD2	2.21	0.69
8:H:556:VAL:HG13	8:H:595:PHE:CD1	2.27	0.69
10:J:222:THR:OG1	10:J:225:ARG:NH2	2.26	0.69
12:L:243:TYR:CE2	9:i:101:LEU:HB2	2.25	0.69
12:L:700:MET:HE3	12:L:704:LYS:NZ	2.07	0.69
9:i:43:PRO:HA	9:i:46:MET:CE	2.22	0.69
1:A:25:ARG:O	1:A:29:GLU:HG3	1.92	0.69
2:B:59:LYS:HG2	5:E:40:ASN:ND2	2.07	0.69
6:F:211:ILE:HD12	6:F:216:ILE:HD13	1.74	0.69
7:G:226:LEU:HD21	7:G:229:VAL:HB	1.75	0.69
8:H:326:ASN:ND2	8:H:406:PRO:HG3	2.07	0.69
8:H:444:GLN:HB2	8:H:447:GLY:HA2	1.75	0.69
8:H:827:SER:O	8:H:830:LEU:HG	1.92	0.69
10:J:234:LEU:HD13	11:K:295:LYS:HB2	1.73	0.69
12:L:700:MET:HE1	12:L:730:GLU:OE1	1.92	0.69
13:P:315:LEU:HD13	14:R:175:ALA:CB	2.22	0.69
9:i:144:ALA:CB	9:i:154:ILE:HD13	2.21	0.69
2:B:127:HIS:O	2:B:131:ILE:HG12	1.91	0.69
3:C:36:ASN:O	3:C:40:ILE:HG12	1.93	0.69
3:C:97:GLU:HB3	3:C:117:CYS:HB2	1.75	0.69
3:C:402:LYS:CE	3:C:553:ILE:HB	2.23	0.69
6:F:333:ALA:HB2	6:F:357:PHE:CE1	2.28	0.69
12:L:3:ASN:OD1	12:L:290:MET:HE1	1.93	0.69
12:L:246:GLY:HA3	9:i:52:PHE:CZ	2.26	0.69
13:P:328:TYR:CE1	13:P:355:LEU:HD13	2.28	0.69
14:Q:152:GLY:HA2	14:Q:192:TYR:CE1	2.28	0.69
14:Q:159:PHE:CE2	14:Q:163:LEU:HD11	2.27	0.69
15:S:53:LEU:HD22	15:S:57:LEU:HD11	1.72	0.69
15:S:96:LEU:CD1	15:s:93:VAL:HG13	2.22	0.69
15:S:113:GLN:O	15:S:117:MET:HG3	1.93	0.69
15:S:171:ASP:OD1	15:S:172:PRO:HD2	1.92	0.69
3:C:32:PRO:O	3:C:33:ARG:NH1	2.24	0.69
3:C:56:THR:O	3:C:59:ILE:HG23	1.92	0.69
3:C:273:LYS:HG2	3:C:329:ILE:CD1	2.20	0.69
7:G:90:LYS:HA	7:G:118:ASP:O	1.93	0.69
8:H:120:GLY:HA2	8:H:125:TYR:OH	1.93	0.69
8:H:612:ILE:HG12	8:H:619:VAL:HG22	1.73	0.69
12:L:519:ALA:HB2	12:L:633:LEU:HD22	1.74	0.69
13:P:175:ASN:HB3	13:P:358:ARG:NH1	2.07	0.69
1:A:39:GLU:HG3	1:A:43:LYS:NZ	2.06	0.69
1:A:171:SER:O	1:A:174:LEU:HG	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:228:MET:CE	2:B:222:LEU:HB3	2.23	0.69
3:C:172:PHE:CZ	3:C:191:LEU:HD23	2.28	0.69
10:J:155:LEU:HB3	11:K:223:ILE:HD11	1.74	0.69
1:A:67:SER:O	1:A:70:LYS:HG3	1.93	0.69
1:A:91:ASN:CA	1:A:94:MET:HE3	2.22	0.69
1:A:185:PHE:O	1:A:187:LYS:N	2.26	0.69
3:C:496:GLN:O	3:C:499:GLN:HG3	1.93	0.69
6:F:64:ASP:C	6:F:68:MET:HE3	2.18	0.69
6:F:65:ILE:HD11	6:F:107:LEU:HD23	1.75	0.69
8:H:441:PRO:HG3	8:H:449:VAL:HG22	1.73	0.69
10:J:253:GLU:OE2	10:J:257:ASN:ND2	2.26	0.69
10:J:355:LYS:HA	14:Q:38:PHE:CD1	2.27	0.69
11:K:355:ILE:HA	11:K:358:GLU:HG3	1.75	0.69
12:L:765:PRO:HG2	12:L:806:ILE:HD11	1.75	0.69
13:P:128:ILE:HD13	13:P:229:ILE:HD11	1.75	0.69
3:C:111:LEU:HB3	3:C:132:ASP:O	1.93	0.69
3:C:119:LYS:HG2	3:C:139:TYR:CB	2.23	0.69
3:C:172:PHE:CD2	3:C:217:ILE:HG12	2.26	0.69
3:C:302:LYS:HZ2	3:C:305:GLN:H	1.41	0.69
3:C:490:LEU:CD2	3:C:497:LEU:HD22	2.21	0.69
6:F:115:LEU:O	6:F:118:ILE:HG22	1.93	0.69
6:F:244:ILE:HD12	6:F:270:ASN:ND2	2.08	0.69
8:H:593:GLN:HB2	8:H:610:MET:SD	2.33	0.69
9:I:102:LEU:HD22	9:I:160:ILE:HD13	1.74	0.69
11:K:60:ILE:O	11:K:64:ILE:HG13	1.93	0.69
11:K:72:THR:HG22	11:K:170:PHE:CZ	2.27	0.69
12:L:140:GLU:HG2	12:L:291:LYS:NZ	2.08	0.69
12:L:527:LEU:HD21	12:L:585:ALA:HB2	1.74	0.69
13:P:149:ILE:HB	13:P:245:ILE:CD1	2.22	0.69
1:A:202:THR:HA	1:A:205:GLU:OE1	1.92	0.69
1:A:254:ASP:OD1	1:A:255:TYR:N	2.26	0.69
3:C:68:GLN:O	3:C:69:LEU:HD23	1.91	0.69
7:G:81:LEU:HD22	7:G:110:THR:CG2	2.23	0.69
9:I:167:THR:O	9:I:171:ILE:HG12	1.93	0.69
11:K:413:HIS:C	14:R:56:LEU:HG	2.17	0.69
12:L:137:TYR:HA	12:L:140:GLU:OE1	1.93	0.69
13:P:155:GLU:HA	13:P:234:PHE:CG	2.27	0.69
1:A:171:SER:HA	1:A:174:LEU:CD2	2.23	0.68
3:C:103:ASP:O	3:C:126:LYS:HE3	1.93	0.68
3:C:312:LYS:O	3:C:316:LYS:HG2	1.94	0.68
6:F:31:VAL:HA	6:F:34:VAL:HG22	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:196:THR:H	14:Q:27:ILE:HD13	1.58	0.68
7:G:198:LEU:H	14:Q:25:GLU:N	1.91	0.68
8:H:81:LYS:HG2	8:H:85:GLN:NE2	2.08	0.68
8:H:512:GLN:O	8:H:523:ILE:HG23	1.94	0.68
8:H:513:VAL:HG22	8:H:523:ILE:CG1	2.23	0.68
11:K:291:HIS:HA	11:K:294:LYS:HE2	1.74	0.68
12:L:440:LEU:HD23	12:L:444:LEU:HD23	1.75	0.68
13:P:175:ASN:CB	13:P:358:ARG:HD2	2.23	0.68
13:P:235:PHE:CB	13:P:240:ILE:HG22	2.22	0.68
13:P:329:THR:HG23	13:P:356:ARG:HG3	1.75	0.68
15:S:167:ASP:OD1	15:S:168:SER:N	2.26	0.68
4:D:106:VAL:HA	6:F:181:TYR:HB2	1.73	0.68
6:F:277:SER:CB	6:F:304:ALA:HB1	2.23	0.68
10:J:351:TYR:OH	14:Q:50:TYR:OH	1.94	0.68
10:J:356:ASP:CB	14:Q:38:PHE:CE1	2.75	0.68
12:L:328:ARG:NH2	12:L:352:TYR:OH	2.26	0.68
9:i:22:ILE:HD13	9:i:81:GLU:HA	1.75	0.68
2:B:74:LYS:HA	2:B:77:ARG:CD	2.24	0.68
3:C:54:ILE:HG12	8:H:660:PRO:CD	2.21	0.68
3:C:324:MET:CE	3:C:439:ILE:HA	2.22	0.68
7:G:295:ALA:O	7:G:299:ILE:HG12	1.93	0.68
8:H:118:LYS:HD2	8:H:181:VAL:HA	1.73	0.68
8:H:485:PHE:CE2	8:H:486:GLU:HG3	2.27	0.68
10:J:232:LYS:O	10:J:236:GLU:HG3	1.94	0.68
11:K:413:HIS:CE1	14:R:56:LEU:HB2	2.28	0.68
12:L:134:ILE:HG23	12:L:589:ALA:HB1	1.75	0.68
13:P:354:GLN:OE1	13:P:356:ARG:NH2	2.25	0.68
14:Q:54:PHE:HA	14:Q:57:PHE:CD2	2.28	0.68
14:Q:110:ILE:HA	14:Q:113:SER:HB2	1.73	0.68
14:R:50:TYR:CZ	14:R:112:VAL:HG11	2.28	0.68
2:B:64:ASN:HB2	9:i:180:ASN:HD22	1.59	0.68
3:C:543:ARG:NH2	10:J:255:LEU:HB2	2.08	0.68
3:C:544:LYS:NZ	8:H:627:ASP:O	2.20	0.68
4:D:68:ILE:HG22	5:E:56:VAL:HG22	1.74	0.68
6:F:219:ASP:HA	6:F:222:ARG:CZ	2.24	0.68
11:K:57:ALA:HB1	11:K:202:LEU:HB3	1.76	0.68
12:L:57:TYR:HA	12:L:60:ILE:HD12	1.75	0.68
12:L:245:ARG:HD3	9:i:47:ARG:NH2	2.09	0.68
12:L:747:GLY:O	12:L:750:MET:HG3	1.93	0.68
13:P:118:ARG:HD3	13:P:369:TYR:CE1	2.28	0.68
13:P:250:VAL:HB	13:P:270:MET:HE1	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:P:327:TYR:O	13:P:355:LEU:HD12	1.94	0.68
14:R:103:ILE:HB	14:R:107:ALA:CB	2.23	0.68
2:B:58:GLN:N	5:E:37:GLU:N	2.38	0.68
2:B:260:ASN:HB2	2:B:261:ARG:NH1	2.08	0.68
3:C:135:LEU:HD12	3:C:155:PHE:CE1	2.28	0.68
3:C:158:GLY:CA	3:C:196:VAL:HA	2.22	0.68
3:C:353:HIS:O	3:C:356:GLU:HG2	1.94	0.68
3:C:355:LYS:HA	3:C:358:LEU:CD2	2.23	0.68
6:F:216:ILE:O	6:F:243:LYS:N	2.27	0.68
7:G:189:GLN:NE2	10:J:361:LYS:HE3	2.09	0.68
8:H:493:TYR:N	8:H:511:ARG:O	2.26	0.68
8:H:533:GLY:O	8:H:549:TYR:HA	1.93	0.68
8:H:581:ASN:OD1	8:H:688:ARG:NE	2.27	0.68
8:H:643:HIS:HE1	8:H:670:VAL:HG13	1.59	0.68
12:L:50:TRP:CE3	12:L:94:THR:HG23	2.28	0.68
12:L:108:THR:O	12:L:842:ASN:ND2	2.26	0.68
13:P:314:GLU:HB2	14:R:179:LEU:CD2	2.24	0.68
1:A:91:ASN:O	1:A:94:MET:HG2	1.93	0.68
3:C:69:LEU:HB2	3:C:91:LEU:HD23	1.76	0.68
3:C:451:VAL:HG22	3:C:505:LYS:NZ	2.09	0.68
6:F:55:ILE:HG22	6:F:59:ILE:CD1	2.22	0.68
6:F:124:PRO:O	6:F:127:LYS:HG2	1.92	0.68
8:H:286:TRP:HB2	8:H:302:ILE:O	1.94	0.68
8:H:456:GLN:HA	8:H:464:LYS:HD2	1.76	0.68
10:J:176:GLU:OE2	11:K:237:LEU:HG	1.94	0.68
13:P:177:LEU:HD21	13:P:358:ARG:NH2	2.08	0.68
13:P:260:GLU:CD	14:R:157:GLU:HB3	2.19	0.68
13:P:262:ASN:O	14:R:160:LYS:N	2.25	0.68
13:P:317:LEU:HB2	14:R:162:LEU:HD13	1.75	0.68
9:i:17:PHE:CD1	9:i:178:TYR:HA	2.29	0.68
1:A:156:MET:HB2	5:E:127:TYR:CZ	2.29	0.68
1:A:191:LEU:HD12	1:A:194:GLN:NE2	2.09	0.68
2:B:63:PHE:HB3	9:i:180:ASN:H	1.58	0.68
6:F:186:VAL:HG12	6:F:215:MET:HE1	1.76	0.68
8:H:101:LYS:O	8:H:152:VAL:HA	1.94	0.68
10:J:259:LEU:HD13	11:K:323:LEU:HB2	1.74	0.68
12:L:284:GLN:HE22	12:L:287:ARG:HH11	1.42	0.68
12:L:609:PHE:HD2	12:L:719:SER:HB2	1.59	0.68
12:L:677:ILE:CD1	12:L:695:MET:HE3	2.23	0.68
13:P:330:ARG:HE	13:P:331:VAL:H	1.39	0.68
14:Q:45:GLU:O	14:Q:48:GLN:HG3	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:s:75:THR:O	15:s:79:THR:HG23	1.94	0.68
1:A:91:ASN:HA	1:A:94:MET:HG2	1.76	0.68
2:B:63:PHE:CB	9:i:180:ASN:H	2.07	0.68
6:F:146:LEU:CB	6:F:149:ILE:HD11	2.23	0.68
6:F:285:LYS:HE2	6:F:314:LEU:HD12	1.76	0.68
7:G:95:ASP:CG	7:G:124:LEU:HB3	2.18	0.68
8:H:455:PHE:HA	8:H:462:LYS:O	1.93	0.68
8:H:513:VAL:CG1	8:H:521:ARG:HE	2.07	0.68
8:H:609:LYS:HE3	8:H:622:TYR:CB	2.23	0.68
12:L:156:LEU:HD23	12:L:159:GLU:OE1	1.94	0.68
13:P:143:ASP:HB3	13:P:146:THR:OG1	1.93	0.68
1:A:37:LYS:O	1:A:40:ARG:HG3	1.92	0.68
6:F:34:VAL:HG21	6:F:55:ILE:HD13	1.74	0.68
6:F:123:ASP:OD1	6:F:124:PRO:HD2	1.94	0.68
6:F:352:ILE:O	6:F:355:ASN:ND2	2.27	0.68
11:K:353:GLN:NE2	11:K:357:GLU:OE2	2.27	0.68
12:L:72:VAL:HG12	12:L:297:HIS:ND1	2.09	0.68
12:L:258:GLU:HA	12:L:261:LEU:CD1	2.24	0.68
12:L:428:GLU:CD	12:L:434:GLN:HG2	2.18	0.68
12:L:568:PRO:HB3	12:L:831:LYS:CG	2.23	0.68
12:L:795:GLU:O	12:L:798:LEU:HG	1.94	0.68
13:P:284:ASN:HB2	13:P:287:ASP:O	1.93	0.68
2:B:46:LYS:HG3	5:E:28:LEU:HD11	1.75	0.68
3:C:142:LYS:HZ1	3:C:144:GLU:HB3	1.59	0.68
3:C:294:ASP:HB2	3:C:504:ILE:HG12	1.76	0.68
3:C:552:GLN:HG3	3:C:556:TYR:CE2	2.29	0.68
6:F:145:ASN:O	6:F:146:LEU:HD12	1.93	0.68
6:F:250:ARG:NE	6:F:254:LYS:HE3	2.09	0.68
10:J:11:ILE:O	10:J:14:ARG:HG3	1.94	0.68
10:J:27:ASN:HA	10:J:31:ASP:CB	2.19	0.68
10:J:256:ARG:HD3	11:K:319:ASP:HB3	1.75	0.68
10:J:304:GLU:HA	10:J:307:GLU:OE2	1.93	0.68
14:Q:134:LYS:NZ	14:Q:138:ASP:OD2	2.23	0.68
9:i:145:THR:HG22	9:i:154:ILE:HG12	1.76	0.68
2:B:34:GLU:O	2:B:38:GLN:N	2.28	0.67
2:B:57:GLU:H	5:E:36:LYS:N	1.87	0.67
3:C:292:ILE:HD11	3:C:508:LEU:HD13	1.77	0.67
6:F:350:LEU:HD11	6:F:352:ILE:HD11	1.76	0.67
7:G:191:LEU:HD22	7:G:223:ASN:HD22	1.57	0.67
7:G:198:LEU:O	14:Q:24:LYS:N	2.28	0.67
11:K:40:MET:O	11:K:44:ILE:HG13	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:324:LYS:HG2	11:K:327:LYS:CE	2.24	0.67
2:B:63:PHE:CD1	9:i:181:PHE:HB2	2.28	0.67
3:C:324:MET:O	3:C:328:VAL:HG23	1.95	0.67
3:C:443:GLN:HB2	3:C:516:ILE:HD13	1.74	0.67
3:C:560:ILE:O	3:C:564:LEU:HD23	1.94	0.67
6:F:255:PHE:O	6:F:259:ASN:N	2.25	0.67
7:G:115:ASP:OD2	7:G:117:MET:HE1	1.94	0.67
8:H:444:GLN:HB2	8:H:447:GLY:CA	2.24	0.67
10:J:312:GLU:OE2	10:J:316:LYS:NZ	2.18	0.67
13:P:402:ARG:HA	13:P:405:GLN:CG	2.24	0.67
14:R:155:ARG:HG3	14:R:189:ARG:NH1	2.09	0.67
15:S:154:LEU:HD23	15:S:157:MET:CE	2.25	0.67
3:C:64:LEU:HB2	3:C:83:LEU:HD11	1.74	0.67
5:E:158:GLN:NE2	8:H:295:ASP:OD2	2.27	0.67
8:H:60:PRO:HB2	8:H:63:TYR:HD2	1.59	0.67
8:H:191:LYS:O	8:H:318:GLU:N	2.24	0.67
8:H:288:LEU:HD13	8:H:301:PHE:CD1	2.29	0.67
9:I:155:TYR:CD2	12:L:796:ARG:HD2	2.23	0.67
10:J:312:GLU:OE2	11:K:376:ILE:HD13	1.94	0.67
11:K:12:HIS:N	11:K:13:PRO:HD2	2.10	0.67
12:L:604:MET:HB2	12:L:736:ASP:HB3	1.77	0.67
13:P:249:LYS:HD2	13:P:357:LEU:HB2	1.77	0.67
13:P:318:TYR:N	13:P:320:GLN:HE21	1.93	0.67
1:A:23:LEU:CD2	1:A:151:ILE:HG21	2.22	0.67
2:B:49:GLY:O	2:B:50:LEU:HD23	1.94	0.67
3:C:131:THR:HB	5:E:202:LYS:NZ	2.10	0.67
7:G:81:LEU:HB3	7:G:110:THR:HG21	1.75	0.67
7:G:246:PRO:HB3	7:G:253:PHE:HE1	1.60	0.67
8:H:593:GLN:C	8:H:594:LYS:HD3	2.18	0.67
10:J:317:ASP:O	10:J:321:ARG:HG2	1.95	0.67
1:A:230:THR:HB	1:A:231:GLU:OE1	1.94	0.67
2:B:60:VAL:HG13	9:i:179:ASN:CB	2.25	0.67
2:B:110:ASP:HA	2:B:113:LEU:HB3	1.75	0.67
3:C:131:THR:HA	3:C:152:LEU:HD23	1.76	0.67
3:C:239:ASP:HB3	3:C:242:ILE:HD12	1.76	0.67
4:D:260:LEU:HD21	5:E:245:ILE:HA	1.77	0.67
7:G:87:ARG:CA	7:G:115:ASP:HB3	2.17	0.67
10:J:320:GLU:O	10:J:324:LEU:HD23	1.94	0.67
12:L:277:GLU:OE2	12:L:282:GLN:NE2	2.28	0.67
12:L:325:ARG:CZ	12:L:460:MET:HE2	2.24	0.67
12:L:751:LEU:HA	12:L:754:LYS:HZ1	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:32:ASN:OD1	6:F:381:ARG:NH1	2.28	0.67
1:A:36:LEU:HD13	6:F:382:GLY:HA3	1.75	0.67
3:C:331:LYS:HE3	3:C:438:ILE:HD11	1.77	0.67
6:F:144:LEU:HB3	6:F:168:LEU:HD13	1.77	0.67
6:F:171:THR:CG2	6:F:213:ALA:HB3	2.24	0.67
7:G:43:LYS:CE	7:G:54:ILE:HG23	2.25	0.67
7:G:326:LYS:O	7:G:330:LYS:HG2	1.94	0.67
8:H:547:MET:HE3	8:H:549:TYR:OH	1.94	0.67
10:J:112:VAL:HA	11:K:202:LEU:HD11	1.77	0.67
10:J:354:TRP:CE3	14:Q:112:VAL:HB	2.30	0.67
11:K:253:GLU:HA	11:K:256:GLU:OE2	1.95	0.67
12:L:749:ARG:NH1	12:L:753:PHE:HB2	2.09	0.67
7:G:34:ILE:CD1	7:G:67:GLY:HA2	2.25	0.67
8:H:5:GLU:C	8:H:8:TYR:CG	2.72	0.67
9:I:32:ASP:OD1	9:I:33:LYS:N	2.28	0.67
9:I:104:ALA:HB1	12:L:184:ALA:HB1	1.77	0.67
10:J:281:ARG:HA	10:J:284:LEU:HD21	1.77	0.67
12:L:41:ARG:NH1	12:L:45:GLU:HB3	2.08	0.67
13:P:317:LEU:HB2	14:R:162:LEU:HD22	1.75	0.67
1:A:8:LYS:HD2	2:B:164:ARG:NH2	2.09	0.67
2:B:155:ILE:HG22	4:D:152:ARG:NH2	2.10	0.67
3:C:367:GLU:CG	3:C:394:LEU:HD11	2.21	0.67
3:C:500:MET:O	3:C:504:ILE:HG13	1.94	0.67
3:C:544:LYS:HG2	3:C:548:GLN:NE2	2.10	0.67
7:G:67:GLY:O	7:G:71:ILE:HG13	1.94	0.67
7:G:88:LEU:CD1	7:G:91:VAL:HG21	2.24	0.67
7:G:210:ASN:O	7:G:213:VAL:HG22	1.94	0.67
7:G:274:LEU:HD13	7:G:302:LEU:CD2	2.22	0.67
8:H:470:TYR:O	8:H:478:SER:HA	1.94	0.67
8:H:511:ARG:NH1	8:H:526:TYR:HA	2.09	0.67
8:H:568:ALA:HB1	8:H:569:PRO:CD	2.23	0.67
12:L:525:ALA:HB3	12:L:623:ALA:N	2.10	0.67
12:L:599:GLU:HG3	12:L:711:GLU:CD	2.19	0.67
12:L:677:ILE:HD13	12:L:695:MET:HE3	1.74	0.67
13:P:294:GLY:H	14:R:177:GLU:N	1.90	0.67
13:P:350:TYR:HA	13:P:353:LEU:HD12	1.77	0.67
13:P:402:ARG:HA	13:P:405:GLN:HG3	1.75	0.67
9:i:42:ILE:HD11	9:i:75:ILE:HG21	1.76	0.67
1:A:100:THR:O	1:A:104:ILE:HG13	1.94	0.67
1:A:164:ARG:HA	1:A:167:GLU:CD	2.20	0.67
8:H:623:TYR:HB2	8:H:633:ILE:CG2	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:117:ILE:O	10:J:120:MET:HG3	1.94	0.67
12:L:250:ARG:HG2	9:i:170:HIS:CD2	2.30	0.67
12:L:254:GLN:HG3	12:L:257:ARG:NH1	2.09	0.67
12:L:784:SER:HA	12:L:787:MET:HE3	1.76	0.67
13:P:157:LEU:CB	13:P:241:VAL:HG11	2.24	0.67
13:P:301:GLU:HA	13:P:339:LYS:HE3	1.77	0.67
13:P:399:ASP:O	13:P:402:ARG:HG2	1.95	0.67
14:R:18:LEU:CD1	14:R:19:PRO:HD2	2.24	0.67
15:S:110:LYS:CE	15:s:107:ILE:HA	2.25	0.67
1:A:39:GLU:OE2	6:F:325:GLY:HA3	1.94	0.67
1:A:89:GLU:OE1	1:A:89:GLU:N	2.28	0.67
2:B:58:GLN:HB2	5:E:35:LEU:C	2.20	0.67
3:C:69:LEU:CD1	3:C:91:LEU:HD21	2.20	0.67
3:C:281:ILE:HG22	3:C:515:ILE:CG2	2.20	0.67
3:C:286:LYS:HA	3:C:286:LYS:HE3	1.76	0.67
6:F:43:ASP:OD1	6:F:44:LEU:N	2.28	0.67
7:G:85:SER:CB	7:G:113:TYR:HB3	2.23	0.67
7:G:198:LEU:HD23	14:Q:24:LYS:CD	2.21	0.67
8:H:99:TYR:HA	8:H:108:LYS:O	1.94	0.67
8:H:201:GLU:HB2	8:H:204:MET:HB2	1.76	0.67
8:H:594:LYS:HG3	8:H:609:LYS:HG2	1.76	0.67
10:J:354:TRP:CZ3	14:Q:109:PHE:HA	2.30	0.67
11:K:211:ASN:OD1	11:K:216:LEU:HG	1.94	0.67
11:K:248:SER:O	11:K:252:LYS:HG2	1.95	0.67
12:L:568:PRO:CG	12:L:827:LYS:HB3	2.25	0.67
13:P:270:MET:HB3	13:P:307:GLN:HB3	1.76	0.67
13:P:320:GLN:HA	14:R:169:ARG:HA	1.77	0.67
13:P:325:ILE:HG12	14:R:171:SER:HB2	1.77	0.67
14:R:53:ASN:CB	14:R:73:LEU:HG	2.24	0.67
15:S:25:LEU:HB2	15:s:25:LEU:HD13	1.77	0.67
9:i:17:PHE:CG	9:i:178:TYR:HA	2.30	0.67
9:i:134:GLU:O	9:i:138:LYS:HG3	1.94	0.67
3:C:264:GLU:OE1	3:C:268:ARG:NH1	2.24	0.66
3:C:313:TYR:HA	3:C:316:LYS:CE	2.24	0.66
3:C:481:ASN:ND2	3:C:484:ASP:OD2	2.27	0.66
6:F:240:SER:HB3	6:F:266:ASN:OD1	1.95	0.66
6:F:347:LEU:CD2	6:F:350:LEU:HD13	2.25	0.66
6:F:391:GLU:HG2	6:F:404:ASN:ND2	2.11	0.66
8:H:102:ASN:HD21	8:H:108:LYS:HE3	1.60	0.66
8:H:301:PHE:CZ	8:H:312:PRO:HG3	2.29	0.66
12:L:89:VAL:HG11	12:L:408:ILE:HD13	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:P:265:GLU:HG3	13:P:310:MET:HE2	1.76	0.66
13:P:282:ILE:HG21	14:R:174:GLN:HE21	1.60	0.66
13:P:293:LYS:HG2	14:R:174:GLN:C	2.20	0.66
13:P:315:LEU:HD13	14:R:175:ALA:CA	2.25	0.66
13:P:363:ILE:CG2	13:P:366:ASP:HA	2.24	0.66
14:R:121:LYS:HE2	14:R:168:ASN:ND2	2.09	0.66
15:S:107:ILE:HA	15:S:110:LYS:NZ	2.10	0.66
6:F:200:ILE:HG12	6:F:209:LEU:HD11	1.75	0.66
7:G:85:SER:HA	7:G:113:TYR:HB3	1.77	0.66
8:H:203:LEU:HA	8:H:432:ASN:OD1	1.95	0.66
12:L:494:LYS:NZ	12:L:498:ASP:HB2	2.10	0.66
13:P:117:LEU:HD22	13:P:233:VAL:HG23	1.77	0.66
14:Q:189:ARG:HH11	14:Q:190:ILE:H	1.44	0.66
14:R:111:ILE:HA	14:R:114:LYS:HE3	1.77	0.66
9:i:33:LYS:HB2	9:i:36:ILE:CD1	2.26	0.66
1:A:108:LYS:HB3	1:A:112:ARG:NH1	2.10	0.66
1:A:221:TYR:CE1	2:B:218:MET:HE1	2.29	0.66
8:H:145:PRO:HB2	8:H:147:ASN:OD1	1.95	0.66
8:H:612:ILE:HG23	8:H:639:ARG:CZ	2.26	0.66
8:H:616:LYS:HE3	8:H:620:ILE:HD11	1.78	0.66
11:K:11:LEU:C	11:K:13:PRO:HD2	2.20	0.66
12:L:324:MET:HE2	12:L:457:VAL:CB	2.24	0.66
15:s:64:PHE:O	15:s:68:LYS:HG2	1.95	0.66
3:C:75:LEU:HB2	3:C:95:ILE:HD11	1.77	0.66
3:C:322:VAL:HA	3:C:325:GLN:CD	2.19	0.66
3:C:443:GLN:CB	3:C:516:ILE:HD13	2.25	0.66
7:G:191:LEU:HD22	7:G:223:ASN:ND2	2.10	0.66
8:H:202:SER:O	8:H:432:ASN:HA	1.95	0.66
8:H:290:ARG:HG2	8:H:299:ASN:OD1	1.95	0.66
8:H:326:ASN:HD21	8:H:406:PRO:CG	2.07	0.66
10:J:154:LYS:HD2	11:K:46:SER:OG	1.96	0.66
10:J:216:ALA:HB1	11:K:283:ARG:HH22	1.61	0.66
11:K:246:LYS:HG3	11:K:249:LYS:HE2	1.78	0.66
12:L:247:TYR:HB2	9:i:163:LEU:CD1	2.25	0.66
14:Q:36:GLN:O	14:Q:39:GLN:C	2.39	0.66
15:S:96:LEU:HD11	15:s:93:VAL:HG13	1.77	0.66
1:A:189:LEU:HD23	4:D:180:MET:HE2	1.77	0.66
1:A:244:ALA:HA	4:D:243:LYS:NZ	2.11	0.66
1:A:274:LEU:CD1	2:B:265:ILE:HG23	2.25	0.66
2:B:236:MET:CG	2:B:239:LYS:HE3	2.26	0.66
3:C:184:ASP:HB2	3:C:185:ARG:HH11	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:193:VAL:HG22	5:E:203:VAL:CG1	2.25	0.66
6:F:68:MET:HG3	6:F:103:LYS:NZ	2.11	0.66
7:G:25:TYR:CE2	7:G:44:LEU:HD21	2.30	0.66
7:G:56:LYS:HA	7:G:85:SER:O	1.94	0.66
8:H:138:VAL:HG12	8:H:163:GLN:OE1	1.95	0.66
8:H:703:LYS:O	8:H:708:LYS:HE3	1.95	0.66
12:L:30:GLN:HA	12:L:33:GLN:HE21	1.61	0.66
12:L:358:ASP:CB	12:L:361:GLN:HB2	2.10	0.66
13:P:323:MET:HB2	14:R:169:ARG:O	1.95	0.66
14:Q:182:ILE:HG21	14:Q:190:ILE:HD13	1.77	0.66
14:R:104:ASN:ND2	14:R:106:ASP:HB2	2.08	0.66
9:i:10:GLU:O	9:i:14:GLN:HG3	1.95	0.66
1:A:158:GLU:O	1:A:162:ILE:HG13	1.96	0.66
1:A:203:GLU:HA	1:A:206:GLN:OE1	1.96	0.66
3:C:37:GLU:HA	3:C:40:ILE:CB	2.25	0.66
3:C:54:ILE:HG12	8:H:660:PRO:CG	2.25	0.66
6:F:266:ASN:HA	6:F:294:ASN:ND2	2.08	0.66
7:G:56:LYS:CG	7:G:85:SER:HB3	2.24	0.66
7:G:173:SER:HB2	7:G:202:LYS:HD2	1.77	0.66
8:H:126:ASP:OD2	8:H:129:GLN:N	2.20	0.66
8:H:206:CYS:SG	8:H:434:VAL:HG21	2.36	0.66
8:H:490:ILE:HG23	8:H:514:ILE:HG12	1.78	0.66
11:K:47:THR:HB	11:K:51:LYS:NZ	2.11	0.66
12:L:108:THR:HG23	12:L:842:ASN:CG	2.20	0.66
12:L:308:LEU:HB3	12:L:442:LYS:HZ1	1.58	0.66
12:L:582:GLN:O	12:L:586:GLU:HG2	1.94	0.66
13:P:207:ILE:HD13	13:P:210:LEU:HD12	1.78	0.66
13:P:315:LEU:HD21	14:R:163:LEU:HD12	1.76	0.66
13:P:330:ARG:HB2	13:P:353:LEU:HD22	1.77	0.66
3:C:76:LYS:HG3	3:C:98:LYS:NZ	2.11	0.66
3:C:157:ILE:HG23	3:C:196:VAL:HG12	1.78	0.66
3:C:158:GLY:HA2	3:C:196:VAL:HA	1.76	0.66
8:H:115:ARG:HB3	8:H:156:PRO:HG2	1.77	0.66
8:H:197:THR:HG22	8:H:284:HIS:ND1	2.11	0.66
8:H:485:PHE:CD2	8:H:486:GLU:HG3	2.30	0.66
9:I:102:LEU:CD2	9:I:160:ILE:HG21	2.26	0.66
10:J:356:ASP:HB3	14:Q:47:LYS:CB	2.26	0.66
10:J:356:ASP:HB2	14:Q:38:PHE:CE1	2.30	0.66
12:L:15:ASN:HA	12:L:18:MET:HE3	1.77	0.66
13:P:124:LEU:CB	13:P:231:ILE:HD13	2.25	0.66
13:P:157:LEU:HD21	13:P:162:HIS:HA	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:P:177:LEU:CG	13:P:358:ARG:HB2	2.25	0.66
14:Q:93:PHE:CB	14:Q:103:ILE:HD13	2.25	0.66
14:Q:173:GLU:O	14:Q:177:GLU:HG2	1.96	0.66
1:A:90:LEU:HG	1:A:94:MET:CE	2.26	0.66
3:C:142:LYS:NZ	3:C:144:GLU:HB3	2.10	0.66
6:F:115:LEU:HD11	6:F:151:GLN:HE22	1.61	0.66
6:F:218:ASP:OD2	6:F:245:GLU:HB2	1.95	0.66
6:F:269:ASN:ND2	6:F:297:LEU:HD13	2.10	0.66
8:H:141:GLU:CG	8:H:164:LYS:HB3	2.26	0.66
8:H:610:MET:CB	8:H:621:VAL:HG22	2.25	0.66
8:H:785:GLN:HA	8:H:788:GLU:HG2	1.77	0.66
10:J:353:GLU:HB2	14:Q:42:PHE:CZ	2.31	0.66
12:L:396:PHE:O	12:L:400:ASN:HB2	1.96	0.66
12:L:637:PRO:HB3	12:L:692:PHE:CD2	2.31	0.66
13:P:250:VAL:CG2	13:P:329:THR:HG21	2.25	0.66
13:P:322:ARG:H	14:R:169:ARG:H	1.42	0.66
13:P:328:TYR:CE2	13:P:355:LEU:HB2	2.31	0.66
9:i:30:VAL:HG22	9:i:37:VAL:HG23	1.76	0.66
1:A:260:LEU:HD12	1:A:263:LYS:CD	2.22	0.66
3:C:141:GLU:CD	3:C:161:ARG:HD2	2.21	0.66
3:C:213:ILE:HG22	3:C:217:ILE:HD11	1.78	0.66
3:C:419:ILE:HG12	8:H:231:ASN:O	1.96	0.66
7:G:117:MET:HG3	7:G:147:ASP:HB2	1.78	0.66
10:J:272:GLU:HA	10:J:275:LYS:CE	2.26	0.66
11:K:37:HIS:HB2	11:K:189:HIS:NE2	2.11	0.66
11:K:212:HIS:HA	11:K:216:LEU:CB	2.23	0.66
12:L:113:TYR:CD1	12:L:579:GLN:HB3	2.30	0.66
13:P:278:TYR:HD2	13:P:336:ILE:HG23	1.60	0.66
13:P:392:ARG:HG3	13:P:393:LYS:N	2.11	0.66
15:s:55:ALA:HA	15:s:58:PHE:CB	2.22	0.66
1:A:65:ILE:O	1:A:69:LYS:HG3	1.96	0.66
3:C:66:GLN:O	3:C:67:LEU:HD23	1.96	0.66
7:G:59:LEU:HB2	7:G:88:LEU:CD2	2.25	0.66
7:G:61:GLU:HA	15:s:35:ARG:NH1	2.10	0.66
8:H:196:ILE:HG23	8:H:303:GLU:OE1	1.97	0.66
12:L:660:VAL:HG13	12:L:664:PHE:CD2	2.31	0.66
13:P:124:LEU:HB3	13:P:231:ILE:HD13	1.78	0.66
13:P:157:LEU:HB3	13:P:241:VAL:HG21	1.76	0.66
14:Q:124:GLN:OE1	14:Q:167:GLY:HA3	1.96	0.66
14:R:22:PRO:HG2	14:R:25:GLU:CD	2.21	0.66
1:A:260:LEU:CD1	1:A:263:LYS:HD2	2.23	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:156:SER:HB2	5:E:206:HIS:HE1	1.62	0.65
3:C:257:MET:O	3:C:261:GLU:HG2	1.96	0.65
3:C:375:TRP:HA	3:C:390:ARG:NH2	2.09	0.65
3:C:378:GLU:OE1	3:C:383:ASP:HB2	1.97	0.65
6:F:115:LEU:HD23	6:F:146:LEU:CD2	2.25	0.65
6:F:228:VAL:CG1	6:F:234:LEU:HD22	2.25	0.65
6:F:250:ARG:CZ	6:F:254:LYS:HE3	2.26	0.65
7:G:173:SER:CB	7:G:202:LYS:HD2	2.25	0.65
7:G:184:SER:OG	7:G:208:LEU:HD22	1.96	0.65
7:G:238:THR:OG1	7:G:291:SER:N	2.28	0.65
7:G:302:LEU:HD13	7:G:311:MET:CE	2.26	0.65
8:H:134:LEU:HD21	8:H:170:MET:HB2	1.78	0.65
10:J:167:LYS:HG2	10:J:171:PHE:CZ	2.32	0.65
13:P:325:ILE:HG13	13:P:359:THR:O	1.95	0.65
15:S:47:LYS:HA	15:S:50:GLU:OE1	1.96	0.65
1:A:243:LYS:HZ1	2:B:232:GLU:HB2	1.61	0.65
2:B:228:LYS:HE2	2:B:229:TYR:CE1	2.31	0.65
3:C:39:LEU:HD22	3:C:72:LYS:HE3	1.78	0.65
3:C:213:ILE:O	3:C:217:ILE:HG13	1.95	0.65
5:E:90:ILE:O	5:E:94:VAL:HG23	1.96	0.65
9:I:26:PHE:O	9:I:30:VAL:HG23	1.96	0.65
10:J:355:LYS:HA	14:Q:38:PHE:CE1	2.30	0.65
10:J:356:ASP:CB	14:Q:47:LYS:CB	2.70	0.65
11:K:80:GLU:O	11:K:84:LYS:HG3	1.97	0.65
11:K:265:VAL:O	11:K:268:GLU:HG3	1.96	0.65
12:L:243:TYR:CD2	9:i:101:LEU:HD13	2.31	0.65
12:L:243:TYR:OH	9:i:96:ASP:O	2.13	0.65
12:L:609:PHE:CE2	12:L:717:ILE:HG23	2.24	0.65
13:P:250:VAL:HB	13:P:270:MET:CE	2.26	0.65
13:P:282:ILE:HA	13:P:326:GLU:HB2	1.77	0.65
13:P:329:THR:CG2	13:P:356:ARG:HG3	2.26	0.65
2:B:47:ARG:HA	2:B:50:LEU:CD1	2.25	0.65
3:C:124:LEU:HD11	3:C:127:LEU:CD2	2.25	0.65
3:C:175:LYS:NZ	3:C:183:ASN:HB2	2.10	0.65
4:D:102:MET:O	4:D:106:VAL:HG23	1.96	0.65
7:G:63:LEU:HB2	7:G:68:VAL:HG22	1.77	0.65
8:H:438:ASN:OD1	8:H:450:GLN:HG3	1.97	0.65
8:H:523:ILE:O	8:H:536:GLU:HG3	1.96	0.65
8:H:611:VAL:O	8:H:619:VAL:HA	1.95	0.65
8:H:762:MET:CE	8:H:840:LEU:HD21	2.08	0.65
8:H:830:LEU:HD12	8:H:831:GLN:N	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:421:LYS:HD3	11:K:423:LYS:HE3	1.79	0.65
12:L:613:ARG:NH1	12:L:672:GLU:OE2	2.30	0.65
12:L:640:ILE:HB	12:L:644:TYR:CE2	2.31	0.65
13:P:117:LEU:HA	13:P:120:ILE:HD12	1.78	0.65
13:P:135:ARG:HA	13:P:135:ARG:CZ	2.25	0.65
13:P:266:ILE:CD1	14:R:172:GLU:HB2	2.25	0.65
2:B:74:LYS:HA	2:B:77:ARG:CG	2.24	0.65
3:C:214:ILE:HG23	3:C:233:ARG:HH11	1.59	0.65
3:C:294:ASP:HB3	3:C:504:ILE:HD11	1.78	0.65
6:F:228:VAL:HG13	6:F:234:LEU:HD22	1.76	0.65
7:G:213:VAL:HG21	7:G:236:PHE:CZ	2.31	0.65
8:H:6:GLY:CA	8:H:6:GLY:H	2.02	0.65
8:H:200:ASN:CG	8:H:273:LEU:HD21	2.22	0.65
9:I:160:ILE:O	9:I:163:LEU:HG	1.96	0.65
15:s:85:MET:HA	15:s:88:GLU:OE1	1.96	0.65
1:A:111:LEU:HG	1:A:115:PHE:CE2	2.32	0.65
2:B:109:LEU:O	2:B:113:LEU:HB2	1.96	0.65
3:C:161:ARG:O	3:C:161:ARG:HD3	1.97	0.65
3:C:340:SER:O	3:C:344:VAL:HG23	1.96	0.65
5:E:248:HIS:O	5:E:252:ILE:HG23	1.97	0.65
6:F:30:ALA:O	6:F:34:VAL:HG13	1.96	0.65
6:F:72:ILE:HG21	6:F:77:PHE:CE2	2.31	0.65
7:G:167:SER:HA	14:Q:25:GLU:HG3	1.78	0.65
8:H:469:PHE:HD1	8:H:479:ILE:HG12	1.61	0.65
8:H:503:ILE:HG23	8:H:507:LEU:CD2	2.25	0.65
10:J:231:GLN:HE22	11:K:294:LYS:HG3	1.58	0.65
10:J:358:GLY:HA3	14:Q:105:GLU:OE2	1.96	0.65
11:K:246:LYS:HA	11:K:249:LYS:CE	2.27	0.65
11:K:273:ALA:O	11:K:277:LYS:HG2	1.97	0.65
12:L:89:VAL:HG13	12:L:601:LEU:HD22	1.78	0.65
12:L:357:MET:HG3	12:L:357:MET:O	1.97	0.65
13:P:317:LEU:HD13	14:R:162:LEU:HD22	1.79	0.65
14:R:156:VAL:HG21	14:R:188:GLU:OE1	1.96	0.65
1:A:112:ARG:HG2	2:B:109:LEU:CD1	2.27	0.65
2:B:147:GLU:HB3	2:B:151:ARG:CZ	2.27	0.65
3:C:133:LEU:O	3:C:155:PHE:HA	1.97	0.65
6:F:284:LEU:HD21	6:F:290:LEU:HD23	1.77	0.65
7:G:179:ILE:HG12	7:G:206:ASN:OD1	1.97	0.65
8:H:518:ARG:O	8:H:541:ILE:HD12	1.96	0.65
8:H:581:ASN:HD21	8:H:684:GLU:C	2.03	0.65
10:J:1:MET:SD	11:K:181:ASN:ND2	2.70	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:167:LYS:HG2	10:J:171:PHE:CE2	2.32	0.65
12:L:138:PHE:CD2	12:L:593:GLY:HA3	2.31	0.65
12:L:139:ARG:HB3	12:L:143:LYS:HE3	1.79	0.65
12:L:644:TYR:HE1	12:L:653:MET:HG3	1.62	0.65
14:R:42:PHE:CE1	14:R:113:SER:HA	2.31	0.65
3:C:317:ILE:HD11	3:C:449:GLU:HB2	1.77	0.65
3:C:412:LEU:HD12	3:C:416:LEU:HD23	1.78	0.65
6:F:43:ASP:HB2	6:F:45:LYS:HG3	1.78	0.65
6:F:52:ARG:NH2	6:F:71:ASN:O	2.28	0.65
8:H:6:GLY:HA2	8:H:8:TYR:CZ	2.26	0.65
8:H:80:PHE:CZ	8:H:356:VAL:HA	2.32	0.65
8:H:253:GLU:HA	8:H:256:GLU:OE2	1.96	0.65
8:H:379:ASP:OD1	8:H:380:PRO:HD2	1.96	0.65
10:J:353:GLU:N	10:J:353:GLU:OE1	2.29	0.65
11:K:413:HIS:HA	14:R:56:LEU:HG	1.77	0.65
12:L:124:LYS:O	12:L:125:LEU:HD22	1.96	0.65
12:L:237:ALA:HB1	12:L:241:LYS:HE3	1.78	0.65
12:L:660:VAL:HA	12:L:664:PHE:HD2	1.60	0.65
13:P:112:ALA:HB2	13:P:235:PHE:CE1	2.32	0.65
15:s:62:LYS:CD	15:s:65:LYS:HD3	2.27	0.65
1:A:57:TYR:O	1:A:61:GLN:HG2	1.97	0.65
2:B:46:LYS:HA	5:E:28:LEU:CD1	2.26	0.65
3:C:66:GLN:CB	3:C:88:LYS:HB3	2.27	0.65
6:F:292:SER:CB	6:F:320:GLU:HB2	2.27	0.65
6:F:319:LEU:HD22	6:F:346:GLY:C	2.21	0.65
8:H:556:VAL:HG13	8:H:595:PHE:CE1	2.30	0.65
8:H:754:ALA:HB1	8:H:846:LEU:HD23	1.77	0.65
8:H:811:ILE:O	8:H:815:ILE:HG13	1.97	0.65
11:K:225:GLU:HB3	11:K:229:LYS:HE3	1.79	0.65
9:i:121:MET:HE1	9:i:154:ILE:HD11	1.78	0.65
1:A:152:ARG:HG2	5:E:127:TYR:CE1	2.32	0.65
2:B:52:ALA:C	2:B:54:ILE:HG13	2.22	0.65
7:G:21:LEU:HD13	7:G:78:ILE:HG13	1.78	0.65
7:G:32:ASN:OD1	7:G:70:SER:OG	2.06	0.65
7:G:114:LEU:HG	7:G:116:LEU:HD23	1.79	0.65
7:G:251:ASN:HB3	7:G:254:GLU:OE2	1.96	0.65
8:H:616:LYS:HG3	8:H:618:LYS:H	1.61	0.65
8:H:625:MET:SD	8:H:630:ILE:HA	2.37	0.65
8:H:765:LEU:HD13	8:H:836:MET:SD	2.36	0.65
11:K:212:HIS:N	11:K:216:LEU:HD12	2.11	0.65
11:K:427:LYS:HG3	14:Q:161:GLU:OE2	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:412:LEU:O	12:L:416:ILE:HG12	1.97	0.65
13:P:256:ILE:HG23	13:P:266:ILE:CG1	2.24	0.65
13:P:330:ARG:NH1	13:P:352:HIS:O	2.30	0.65
9:i:118:ILE:HG12	9:i:121:MET:CE	2.27	0.65
2:B:74:LYS:CA	2:B:77:ARG:HG2	2.27	0.65
4:D:172:LEU:HD12	4:D:175:GLU:OE2	1.97	0.65
6:F:188:MET:HG3	6:F:214:ASN:O	1.96	0.65
7:G:59:LEU:HB2	7:G:88:LEU:HD21	1.78	0.65
8:H:290:ARG:CZ	8:H:345:GLU:HA	2.27	0.65
8:H:544:LYS:HG3	8:H:562:ARG:HA	1.79	0.65
9:I:21:LYS:HD2	9:I:174:VAL:CG1	2.27	0.65
10:J:216:ALA:HB1	11:K:280:LEU:HB2	1.79	0.65
10:J:354:TRP:HD1	10:J:355:LYS:HD3	1.62	0.65
11:K:281:ASP:HB3	11:K:285:LYS:HZ1	1.61	0.65
12:L:6:TYR:CZ	12:L:70:GLN:HB2	2.32	0.65
12:L:120:VAL:O	12:L:123:LEU:HG	1.96	0.65
12:L:170:GLN:HG2	12:L:170:GLN:O	1.97	0.65
12:L:248:LYS:O	12:L:252:LEU:HG	1.97	0.65
12:L:368:LYS:HD3	12:L:372:GLU:OE2	1.97	0.65
12:L:604:MET:HB2	12:L:736:ASP:CB	2.27	0.65
12:L:783:GLY:O	12:L:786:LYS:HG3	1.96	0.65
13:P:293:LYS:HG2	14:R:175:ALA:CA	2.26	0.65
1:A:48:GLU:HG2	1:A:53:ARG:HG2	1.79	0.64
2:B:66:LYS:HD2	9:i:176:LYS:O	1.96	0.64
7:G:38:LYS:HG3	15:s:28:LYS:CE	2.26	0.64
7:G:203:MET:O	7:G:231:LEU:HA	1.97	0.64
8:H:327:LEU:O	8:H:403:MET:HG2	1.97	0.64
9:I:39:LYS:HZ1	9:I:63:LEU:HD22	1.61	0.64
9:I:103:ALA:O	9:I:106:LYS:HG3	1.97	0.64
12:L:73:HIS:CE1	12:L:75:GLN:HB2	2.32	0.64
12:L:79:LEU:CD2	12:L:419:HIS:HB2	2.27	0.64
13:P:128:ILE:HD11	13:P:244:LEU:HD21	1.78	0.64
13:P:140:VAL:CG2	13:P:229:ILE:HG21	2.27	0.64
1:A:195:TYR:HE2	2:B:185:VAL:HG12	1.63	0.64
3:C:286:LYS:HE2	3:C:314:CYS:HA	1.79	0.64
6:F:196:LEU:O	6:F:200:ILE:HG13	1.97	0.64
6:F:319:LEU:O	6:F:349:VAL:N	2.26	0.64
7:G:197:ASN:O	14:Q:21:LYS:HB2	1.97	0.64
7:G:319:LYS:HB2	12:L:467:ILE:HD13	1.80	0.64
8:H:754:ALA:HB1	8:H:846:LEU:CD2	2.26	0.64
11:K:416:MET:CB	14:R:56:LEU:HD22	2.26	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:134:ILE:CG1	12:L:527:LEU:HD22	2.27	0.64
12:L:158:LEU:HB3	12:L:164:LYS:NZ	2.12	0.64
13:P:282:ILE:CG2	14:R:174:GLN:HE21	2.09	0.64
14:Q:192:TYR:O	14:Q:196:VAL:HG23	1.98	0.64
1:A:48:GLU:HA	1:A:52:ARG:HG2	1.79	0.64
1:A:155:ASN:HA	1:A:158:GLU:HG2	1.80	0.64
3:C:378:GLU:HG2	3:C:387:GLU:HG2	1.80	0.64
6:F:300:LEU:HD12	6:F:328:PHE:HZ	1.61	0.64
9:I:46:MET:CG	9:I:84:MET:HE1	2.27	0.64
9:I:49:LEU:HB3	9:I:88:LEU:HD21	1.78	0.64
10:J:88:LEU:HD23	10:J:89:LYS:NZ	2.11	0.64
13:P:113:ASP:HB3	13:P:116:THR:CB	2.27	0.64
9:i:62:ILE:HA	9:i:83:TYR:CZ	2.32	0.64
1:A:241:ASP:O	1:A:245:LEU:HD13	1.98	0.64
2:B:48:GLU:HG3	4:D:40:MET:HE2	1.80	0.64
2:B:56:ASP:HA	5:E:37:GLU:HG3	1.78	0.64
3:C:54:ILE:HG22	3:C:56:THR:HG23	1.80	0.64
6:F:398:ASP:HB3	6:F:401:ARG:HB2	1.79	0.64
7:G:205:GLY:HA2	7:G:233:ASP:O	1.96	0.64
7:G:280:LEU:O	7:G:281:LEU:HD23	1.97	0.64
7:G:299:ILE:CD1	7:G:325:LYS:HB2	2.27	0.64
8:H:420:MET:HE3	8:H:440:ALA:CB	2.28	0.64
8:H:573:ASN:O	8:H:577:VAL:HG23	1.97	0.64
8:H:846:LEU:HB3	8:H:849:LEU:CD1	2.27	0.64
10:J:113:LYS:HD3	11:K:56:GLU:OE2	1.98	0.64
13:P:158:VAL:HG11	13:P:235:PHE:C	2.21	0.64
13:P:273:GLU:HG2	13:P:307:GLN:OE1	1.98	0.64
13:P:282:ILE:HD13	13:P:325:ILE:HA	1.79	0.64
14:Q:57:PHE:CE2	14:Q:73:LEU:HG	2.32	0.64
14:Q:156:VAL:CG2	14:Q:189:ARG:HA	2.27	0.64
9:i:33:LYS:O	9:i:36:ILE:HG12	1.98	0.64
1:A:10:LYS:HD2	1:A:17:ARG:HH22	1.62	0.64
5:E:150:GLU:OE2	8:H:293:LYS:HD3	1.98	0.64
8:H:290:ARG:NH2	8:H:345:GLU:HA	2.11	0.64
8:H:510:TRP:CZ2	8:H:694:ILE:HD12	2.33	0.64
12:L:75:GLN:HE22	12:L:440:LEU:HB3	1.61	0.64
13:P:250:VAL:HG21	13:P:329:THR:HG21	1.79	0.64
15:s:146:PHE:HA	15:s:149:MET:HE3	1.78	0.64
3:C:281:ILE:HD11	3:C:522:GLU:OE2	1.98	0.64
6:F:103:LYS:HE3	6:F:107:LEU:CD1	2.27	0.64
6:F:274:TYR:CE2	6:F:303:LYS:HG2	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:71:GLU:OE2	8:H:74:LEU:HD22	1.98	0.64
8:H:117:THR:HG23	8:H:410:LYS:HB3	1.78	0.64
8:H:270:PRO:HG3	8:H:458:TYR:CE2	2.33	0.64
10:J:227:TYR:CE2	11:K:287:LEU:HG	2.32	0.64
13:P:128:ILE:HG21	13:P:229:ILE:CD1	2.27	0.64
13:P:293:LYS:CG	14:R:176:ASN:H	2.09	0.64
15:s:75:THR:O	15:s:78:MET:HG2	1.98	0.64
3:C:137:ASN:HA	3:C:159:ASN:O	1.98	0.64
6:F:429:PHE:HA	6:F:433:ASP:CB	2.27	0.64
7:G:211:GLU:HG2	10:J:365:LYS:HE3	1.80	0.64
8:H:66:ASN:HD21	8:H:108:LYS:HD3	1.62	0.64
8:H:101:LYS:HB3	8:H:105:ASP:HA	1.79	0.64
9:I:43:PRO:HG3	9:I:58:VAL:HG21	1.80	0.64
9:I:101:LEU:HD23	9:I:160:ILE:HG23	1.79	0.64
9:I:160:ILE:HA	9:I:163:LEU:HD21	1.79	0.64
10:J:352:GLN:HE22	14:Q:120:ASP:N	1.96	0.64
11:K:410:CYS:SG	14:R:52:ASN:N	2.70	0.64
12:L:11:GLN:NE2	12:L:15:ASN:HD21	1.96	0.64
12:L:328:ARG:CD	12:L:461:ILE:HG13	2.27	0.64
12:L:609:PHE:N	12:L:718:GLY:O	2.31	0.64
13:P:260:GLU:OE1	14:R:157:GLU:HB3	1.97	0.64
14:Q:121:LYS:O	14:Q:124:GLN:HG3	1.98	0.64
9:i:9:THR:O	9:i:13:LYS:HG2	1.97	0.64
3:C:420:PHE:HZ	3:C:531:ALA:HB1	1.63	0.64
6:F:19:LYS:HB2	6:F:22:GLU:CD	2.23	0.64
6:F:33:VAL:O	6:F:37:ASN:N	2.31	0.64
6:F:72:ILE:HG21	6:F:77:PHE:CD2	2.33	0.64
6:F:226:ALA:O	6:F:230:MET:HE1	1.97	0.64
7:G:203:MET:O	7:G:234:ASN:ND2	2.30	0.64
7:G:228:LYS:HB3	7:G:282:TYR:CD1	2.32	0.64
8:H:431:TYR:CB	8:H:434:VAL:HB	2.21	0.64
11:K:415:LEU:H	14:Q:145:ASN:HB2	1.62	0.64
12:L:525:ALA:C	12:L:623:ALA:HA	2.23	0.64
14:Q:50:TYR:CE2	14:Q:77:VAL:HG11	2.33	0.64
14:Q:93:PHE:HB3	14:Q:103:ILE:HG21	1.80	0.64
1:A:91:ASN:HA	1:A:94:MET:CE	2.28	0.64
1:A:130:LEU:HD12	1:A:133:GLN:HE21	1.62	0.64
2:B:192:LYS:O	2:B:195:GLU:HG2	1.98	0.64
3:C:72:LYS:HB3	3:C:74:ILE:CG1	2.27	0.64
3:C:450:ASN:HD22	3:C:509:ILE:HG12	1.63	0.64
6:F:319:LEU:CA	6:F:347:LEU:HD12	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:39:LEU:HD13	7:G:59:LEU:HD22	1.80	0.64
7:G:235:GLN:HG2	15:S:55:ALA:CB	2.23	0.64
8:H:96:LEU:CD2	8:H:331:ILE:HG12	2.28	0.64
8:H:97:PHE:CE2	8:H:100:PRO:HG3	2.32	0.64
9:I:8:GLN:O	9:I:12:GLN:HG2	1.98	0.64
11:K:14:ARG:CG	11:K:15:PRO:HD2	2.27	0.64
12:L:552:THR:HA	12:L:555:LEU:HD13	1.78	0.64
13:P:140:VAL:HB	13:P:229:ILE:HB	1.80	0.64
14:Q:156:VAL:CG2	14:Q:189:ARG:HH11	2.11	0.64
14:R:43:SER:O	14:R:47:LYS:HG3	1.98	0.64
9:i:10:GLU:HG3	9:i:14:GLN:HE21	1.61	0.64
2:B:53:ARG:NH2	5:E:31:THR:O	2.26	0.64
2:B:58:GLN:N	5:E:36:LYS:C	2.53	0.64
3:C:355:LYS:O	3:C:358:LEU:HG	1.97	0.64
3:C:435:ILE:HD13	3:C:523:LEU:HD21	1.80	0.64
3:C:465:GLU:HA	3:C:491:LEU:HD22	1.79	0.64
7:G:61:GLU:HA	15:s:35:ARG:HH12	1.63	0.64
7:G:155:GLY:O	7:G:159:LEU:HD23	1.98	0.64
8:H:214:TYR:HB3	8:H:483:TYR:OH	1.98	0.64
12:L:72:VAL:HG22	12:L:294:GLN:NE2	2.12	0.64
13:P:112:ALA:HB2	13:P:235:PHE:HE1	1.62	0.64
13:P:280:ILE:HG23	14:R:173:GLU:CB	2.28	0.64
13:P:390:GLN:HG2	13:P:394:GLU:OE2	1.96	0.64
14:R:42:PHE:CZ	14:R:113:SER:HA	2.32	0.64
2:B:51:LYS:HG3	4:D:47:LEU:HD11	1.79	0.63
2:B:55:LYS:HG2	9:i:10:GLU:OE2	1.98	0.63
6:F:76:SER:HB2	6:F:80:ARG:NH1	2.13	0.63
6:F:181:TYR:HE1	6:F:183:LYS:HE3	1.63	0.63
6:F:405:LEU:O	6:F:410:LYS:NZ	2.31	0.63
7:G:163:LEU:HA	7:G:166:ASN:CB	2.27	0.63
8:H:177:LEU:O	8:H:181:VAL:HG23	1.97	0.63
8:H:197:THR:OG1	8:H:282:ARG:NH1	2.31	0.63
10:J:11:ILE:HG21	11:K:153:GLU:HG3	1.80	0.63
11:K:204:THR:HG21	11:K:212:HIS:CE1	2.27	0.63
1:A:112:ARG:CZ	2:B:102:LYS:HB3	2.28	0.63
1:A:122:LYS:HD3	1:A:125:GLU:OE1	1.98	0.63
2:B:116:ALA:HB1	2:B:120:PHE:CZ	2.33	0.63
3:C:108:LEU:HD21	3:C:111:LEU:HD13	1.78	0.63
3:C:316:LYS:HD2	3:C:449:GLU:OE1	1.98	0.63
6:F:328:PHE:HB3	6:F:332:THR:HG21	1.80	0.63
6:F:411:GLU:O	6:F:415:ILE:HG13	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:213:VAL:HG21	7:G:236:PHE:CE1	2.33	0.63
7:G:280:LEU:HG	7:G:283:TYR:CZ	2.32	0.63
8:H:204:MET:O	8:H:432:ASN:HB2	1.98	0.63
8:H:456:GLN:CD	8:H:464:LYS:HG2	2.24	0.63
10:J:272:GLU:HA	10:J:275:LYS:HE2	1.81	0.63
10:J:304:GLU:OE2	10:J:308:ARG:HD2	1.98	0.63
11:K:44:ILE:HG21	11:K:196:VAL:HG12	1.78	0.63
12:L:116:LEU:O	12:L:120:VAL:HG23	1.98	0.63
12:L:284:GLN:O	12:L:287:ARG:HG2	1.98	0.63
13:P:128:ILE:HG21	13:P:229:ILE:HD13	1.80	0.63
13:P:184:HIS:HA	13:P:243:VAL:HG22	1.81	0.63
13:P:317:LEU:N	14:R:162:LEU:HB3	2.14	0.63
14:Q:103:ILE:HB	14:Q:108:VAL:CG2	2.28	0.63
3:C:276:ASP:HA	3:C:278:ARG:NH1	2.14	0.63
3:C:491:LEU:O	3:C:494:LYS:HG3	1.97	0.63
6:F:414:GLN:HA	6:F:417:ILE:HG12	1.80	0.63
7:G:314:SER:O	7:G:317:ILE:HG12	1.98	0.63
9:I:46:MET:HE1	9:I:62:ILE:HG21	1.80	0.63
10:J:112:VAL:HG11	11:K:56:GLU:HB3	1.80	0.63
10:J:231:GLN:HG3	11:K:291:HIS:CE1	2.34	0.63
10:J:259:LEU:HD13	11:K:323:LEU:CB	2.29	0.63
11:K:253:GLU:HA	11:K:256:GLU:OE1	1.98	0.63
12:L:250:ARG:NH1	9:i:167:THR:HG23	2.13	0.63
12:L:304:GLU:HG2	12:L:436:HIS:HE2	1.63	0.63
12:L:569:SER:OG	12:L:572:MET:HE3	1.99	0.63
12:L:777:THR:HG22	12:L:815:LEU:HD21	1.80	0.63
13:P:319:ASN:CG	14:R:168:ASN:HB2	2.22	0.63
14:Q:92:GLU:O	14:Q:96:THR:HG23	1.98	0.63
15:s:142:MET:HA	15:s:145:GLU:HG2	1.81	0.63
1:A:213:LEU:HD11	2:B:204:LYS:HD3	1.80	0.63
6:F:65:ILE:HD12	6:F:68:MET:SD	2.39	0.63
6:F:93:ILE:HD13	6:F:105:ALA:CB	2.28	0.63
6:F:250:ARG:HD2	6:F:251:ARG:NH1	2.14	0.63
8:H:141:GLU:CD	8:H:164:LYS:HD3	2.23	0.63
8:H:441:PRO:HG3	8:H:449:VAL:HG13	1.81	0.63
8:H:454:ILE:HG22	8:H:464:LYS:HD3	1.79	0.63
8:H:474:SER:HB3	8:H:700:ARG:HB2	1.79	0.63
8:H:493:TYR:HB2	8:H:511:ARG:HA	1.79	0.63
9:I:146:ASN:HB3	9:I:162:ARG:NH1	2.13	0.63
10:J:302:LEU:CD1	11:K:369:LEU:HD12	2.28	0.63
12:L:324:MET:HE3	12:L:328:ARG:HH12	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:23:LEU:CD1	1:A:151:ILE:HG12	2.28	0.63
1:A:144:MET:HE3	2:B:138:GLN:OE1	1.98	0.63
2:B:56:ASP:C	5:E:37:GLU:H	2.06	0.63
3:C:63:GLN:HA	3:C:65:ARG:NH2	2.13	0.63
6:F:215:MET:HB3	6:F:243:LYS:HD3	1.79	0.63
6:F:319:LEU:HA	6:F:347:LEU:HD12	1.80	0.63
10:J:175:GLN:HA	10:J:178:LYS:HE2	1.81	0.63
11:K:268:GLU:O	11:K:271:LYS:HG3	1.99	0.63
11:K:324:LYS:O	11:K:327:LYS:HG2	1.98	0.63
12:L:149:ARG:NH1	12:L:629:ASN:O	2.31	0.63
12:L:675:GLU:HG2	12:L:725:ASP:HB2	1.80	0.63
13:P:255:LYS:HB2	13:P:267:ARG:HH21	1.63	0.63
2:B:74:LYS:C	2:B:77:ARG:HG2	2.23	0.63
3:C:36:ASN:C	3:C:40:ILE:HG12	2.24	0.63
3:C:263:LYS:O	3:C:266:MET:HG2	1.99	0.63
3:C:273:LYS:CG	3:C:329:ILE:HD13	2.26	0.63
7:G:129:LEU:HD13	7:G:146:LEU:HD11	1.80	0.63
9:I:42:ILE:HD11	9:I:75:ILE:CG2	2.14	0.63
11:K:61:LEU:HD23	11:K:64:ILE:HD12	1.80	0.63
11:K:112:SER:O	11:K:116:ILE:HG13	1.99	0.63
11:K:415:LEU:C	14:Q:145:ASN:HD22	2.06	0.63
12:L:31:ASN:O	12:L:35:LEU:HG	1.98	0.63
12:L:93:GLU:OE2	12:L:601:LEU:HD13	1.99	0.63
12:L:127:PRO:HB3	12:L:534:GLN:CB	2.28	0.63
12:L:331:TRP:CZ2	12:L:350:GLU:HG3	2.33	0.63
12:L:587:TYR:O	12:L:591:PRO:HG2	1.99	0.63
14:Q:128:ALA:HB1	14:Q:166:LEU:HD13	1.79	0.63
15:S:71:LEU:HD23	15:s:71:LEU:HD23	1.80	0.63
3:C:86:LEU:HD21	3:C:89:LEU:HD12	1.81	0.63
3:C:97:GLU:OE1	3:C:97:GLU:N	2.32	0.63
3:C:415:GLU:O	3:C:419:ILE:HG13	1.99	0.63
6:F:253:ALA:O	6:F:257:MET:HG2	1.98	0.63
7:G:22:SER:CB	7:G:44:LEU:HD12	2.26	0.63
7:G:55:GLU:O	7:G:84:LYS:N	2.20	0.63
7:G:143:LYS:HG3	7:G:171:LYS:CB	2.18	0.63
7:G:204:LYS:HG3	7:G:232:SER:O	1.99	0.63
7:G:285:PHE:HB3	7:G:290:ILE:CD1	2.28	0.63
8:H:320:VAL:HG23	8:H:339:VAL:HG22	1.80	0.63
12:L:358:ASP:O	12:L:362:GLN:N	2.16	0.63
15:S:154:LEU:HA	15:S:157:MET:HE3	1.80	0.63
15:s:113:GLN:CB	15:s:117:MET:HE1	2.19	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:64:LEU:CB	3:C:83:LEU:HD11	2.28	0.63
3:C:336:LEU:HA	3:C:339:MET:HE3	1.81	0.63
7:G:312:GLU:O	7:G:313:LEU:HD22	1.97	0.63
8:H:101:LYS:HE3	8:H:107:TYR:CZ	2.34	0.63
8:H:270:PRO:HG3	8:H:458:TYR:CZ	2.33	0.63
8:H:456:GLN:CG	8:H:464:LYS:HG2	2.28	0.63
8:H:592:THR:HG22	8:H:594:LYS:HZ3	1.62	0.63
9:I:115:TYR:HB3	9:I:155:TYR:CD1	2.34	0.63
10:J:126:LEU:HB2	10:J:138:PHE:CE1	2.33	0.63
10:J:262:LYS:O	10:J:266:ILE:HD12	1.99	0.63
12:L:1:MET:HG2	12:L:2:SER:N	2.13	0.63
12:L:92:CYS:HB2	12:L:601:LEU:HD11	1.81	0.63
15:S:146:PHE:HD1	15:s:146:PHE:CD1	2.17	0.63
15:s:179:LYS:O	15:s:182:THR:HG22	1.97	0.63
2:B:56:ASP:H	5:E:36:LYS:HB3	1.64	0.63
7:G:37:SER:HB3	7:G:40:PHE:HD2	1.63	0.63
7:G:240:LEU:O	15:S:62:LYS:NZ	2.29	0.63
8:H:270:PRO:HG3	8:H:458:TYR:CD2	2.34	0.63
8:H:463:VAL:HG21	8:H:466:TYR:OH	1.98	0.63
11:K:418:ARG:HG2	11:K:419:LYS:HB2	1.79	0.63
12:L:509:ILE:CG2	12:L:656:SER:HB2	2.28	0.63
12:L:537:LEU:HD13	12:L:540:ILE:CD1	2.29	0.63
12:L:604:MET:HE1	12:L:737:LYS:CG	2.28	0.63
12:L:676:TYR:CE1	12:L:688:VAL:HG21	2.33	0.63
14:Q:179:LEU:HD11	14:Q:184:PRO:HG3	1.81	0.63
1:A:191:LEU:HD23	2:B:185:VAL:HG11	1.81	0.62
3:C:66:GLN:HA	3:C:88:LYS:O	1.99	0.62
4:D:57:LEU:HG	12:L:771:ASN:HB2	1.80	0.62
6:F:93:ILE:HG23	6:F:98:HIS:ND1	2.13	0.62
6:F:115:LEU:CD1	6:F:151:GLN:HE22	2.12	0.62
10:J:146:LEU:HD23	11:K:197:ILE:CD1	2.28	0.62
10:J:242:LYS:HE3	10:J:243:GLN:HG3	1.80	0.62
12:L:54:TYR:CE2	12:L:58:ILE:HD11	2.34	0.62
12:L:306:GLU:O	12:L:309:LYS:HG2	1.99	0.62
12:L:496:PRO:HG2	12:L:698:PRO:HB3	1.80	0.62
12:L:580:ILE:O	12:L:584:ILE:HG22	1.99	0.62
14:Q:64:TYR:CD1	14:Q:104:ASN:HA	2.34	0.62
15:S:179:LYS:O	15:S:182:THR:HG22	1.98	0.62
3:C:372:PHE:CD1	3:C:563:LYS:HE3	2.34	0.62
7:G:171:LYS:HE3	7:G:199:LYS:CE	2.29	0.62
8:H:47:LEU:HD21	8:H:151:LEU:HB2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:47:LEU:CD2	8:H:151:LEU:HD22	2.29	0.62
8:H:291:SER:HA	8:H:296:VAL:HB	1.81	0.62
8:H:430:TYR:HD2	8:H:460:ARG:HG2	1.64	0.62
8:H:597:LYS:HB2	8:H:624:HIS:CE1	2.34	0.62
8:H:809:ARG:NH1	8:H:810:ASP:OD1	2.31	0.62
10:J:279:THR:O	10:J:282:GLU:HG3	1.99	0.62
10:J:351:TYR:CG	14:Q:79:ILE:HG12	2.33	0.62
11:K:309:PHE:O	11:K:313:LYS:HG3	1.99	0.62
1:A:54:ARG:HA	1:A:57:TYR:CD2	2.32	0.62
1:A:200:ALA:O	1:A:203:GLU:HG3	1.99	0.62
2:B:51:LYS:HG3	4:D:47:LEU:CD1	2.29	0.62
8:H:148:GLU:O	8:H:283:VAL:HB	1.99	0.62
8:H:194:ARG:HG3	8:H:282:ARG:NH2	2.14	0.62
9:I:116:ILE:HB	9:I:121:MET:CE	2.29	0.62
10:J:220:GLU:CD	11:K:283:ARG:HD2	2.24	0.62
10:J:291:LEU:HB3	11:K:355:ILE:CG2	2.29	0.62
11:K:82:ILE:HG22	11:K:114:ALA:HA	1.81	0.62
11:K:246:LYS:HA	11:K:249:LYS:CD	2.29	0.62
12:L:50:TRP:HB3	12:L:98:VAL:HG22	1.80	0.62
12:L:254:GLN:HA	12:L:257:ARG:NH1	2.14	0.62
12:L:584:ILE:HG13	12:L:588:ILE:HD13	1.81	0.62
13:P:377:ARG:O	13:P:381:GLU:OE1	2.18	0.62
14:Q:136:VAL:HG22	14:Q:154:ILE:CD1	2.28	0.62
14:Q:185:LYS:NZ	14:Q:187:ASP:OD2	2.27	0.62
14:R:74:LEU:HD13	14:R:81:PHE:CD1	2.34	0.62
15:S:103:LYS:CG	15:s:103:LYS:HE2	2.28	0.62
9:i:125:LEU:O	9:i:131:GLU:HA	1.99	0.62
2:B:46:LYS:C	2:B:47:ARG:HD2	2.24	0.62
2:B:61:VAL:HA	9:i:180:ASN:HB2	1.81	0.62
3:C:468:TYR:CB	3:C:491:LEU:HD13	2.29	0.62
6:F:198:GLU:OE2	6:F:202:ASN:ND2	2.31	0.62
7:G:193:PHE:CE2	7:G:195:ASN:HB2	2.35	0.62
10:J:146:LEU:HA	11:K:197:ILE:HD11	1.81	0.62
10:J:281:ARG:O	10:J:284:LEU:HG	2.00	0.62
13:P:295:VAL:HG23	14:R:176:ASN:C	2.25	0.62
13:P:356:ARG:HD2	14:R:12:VAL:HG21	1.81	0.62
14:R:38:PHE:O	14:R:42:PHE:HB2	1.99	0.62
15:s:62:LYS:O	15:s:65:LYS:HG2	1.98	0.62
2:B:25:LYS:HG2	2:B:28:GLN:CD	2.24	0.62
2:B:29:LEU:HA	2:B:32:ASN:OD1	1.98	0.62
3:C:336:LEU:HD13	3:C:339:MET:HE3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:222:ARG:HG2	6:F:225:MET:CE	2.30	0.62
6:F:293:LEU:HD21	6:F:295:LEU:HD11	1.80	0.62
6:F:328:PHE:HB3	6:F:332:THR:CB	2.29	0.62
8:H:167:CYS:HB3	8:H:284:HIS:CE1	2.35	0.62
8:H:610:MET:HB2	8:H:621:VAL:HG22	1.81	0.62
12:L:232:GLU:HB2	9:i:107:LEU:HD13	1.81	0.62
12:L:498:ASP:OD1	12:L:655:ASN:ND2	2.32	0.62
13:P:124:LEU:HD13	13:P:231:ILE:HG21	1.81	0.62
13:P:140:VAL:HG21	13:P:229:ILE:HD13	1.80	0.62
2:B:57:GLU:HB2	5:E:34:LYS:O	2.00	0.62
3:C:214:ILE:HD12	3:C:236:ILE:HD12	1.81	0.62
8:H:326:ASN:C	8:H:327:LEU:HD22	2.25	0.62
8:H:355:TYR:HE2	8:H:358:LEU:HG	1.64	0.62
8:H:530:ASN:ND2	8:H:534:LEU:O	2.28	0.62
8:H:589:THR:O	8:H:614:LEU:HB2	1.98	0.62
10:J:221:GLY:O	10:J:225:ARG:HG2	2.00	0.62
11:K:98:LEU:HD13	11:K:176:MET:HG3	1.81	0.62
12:L:140:GLU:HG2	12:L:291:LYS:HZ1	1.65	0.62
12:L:305:ILE:HG23	12:L:445:ILE:HD11	1.82	0.62
13:P:337:PRO:CB	13:P:340:LYS:HD2	2.29	0.62
14:R:54:PHE:CE2	14:R:105:GLU:HB2	2.35	0.62
14:R:120:ASP:HA	14:R:123:GLU:OE1	1.98	0.62
15:S:103:LYS:HZ1	15:s:104:ASP:HB3	1.65	0.62
9:i:118:ILE:CA	9:i:121:MET:HE2	2.28	0.62
1:A:5:GLN:HE22	1:A:173:LEU:N	1.97	0.62
2:B:63:PHE:HB3	9:i:180:ASN:N	2.14	0.62
3:C:266:MET:O	3:C:270:THR:HG23	2.00	0.62
6:F:165:LEU:HD13	6:F:168:LEU:HD21	1.82	0.62
6:F:203:CYS:C	6:F:231:ASN:HD21	2.07	0.62
7:G:72:MET:HE2	7:G:101:ILE:CA	2.21	0.62
8:H:139:GLN:HA	8:H:199:ARG:NH1	2.14	0.62
8:H:511:ARG:HD2	8:H:526:TYR:CD1	2.35	0.62
8:H:597:LYS:HB2	8:H:624:HIS:NE2	2.14	0.62
9:I:51:GLN:NE2	9:I:87:VAL:HG12	2.14	0.62
11:K:71:LEU:O	11:K:75:ILE:HG13	1.99	0.62
12:L:206:ILE:O	12:L:210:GLU:HG2	1.99	0.62
12:L:493:LYS:NZ	12:L:705:GLY:HA2	2.14	0.62
13:P:318:TYR:CD1	14:R:125:LEU:HD12	2.34	0.62
14:Q:103:ILE:HB	14:Q:108:VAL:HG22	1.80	0.62
15:S:57:LEU:CD2	15:s:57:LEU:HG	2.30	0.62
2:B:263:GLN:O	2:B:267:ARG:HD3	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:172:PHE:HE1	3:C:188:PHE:HB3	1.65	0.62
3:C:294:ASP:OD1	3:C:500:MET:HE3	2.00	0.62
6:F:266:ASN:CA	6:F:294:ASN:HD22	2.09	0.62
8:H:330:TRP:NE1	8:H:348:ASP:OD1	2.31	0.62
10:J:356:ASP:O	14:Q:47:LYS:HG3	1.98	0.62
11:K:403:ARG:CZ	14:R:44:GLU:HB2	2.29	0.62
11:K:418:ARG:HA	11:K:419:LYS:CB	2.07	0.62
13:P:320:GLN:CB	14:R:165:THR:H	2.13	0.62
3:C:41:LEU:HD23	3:C:59:ILE:HD11	1.80	0.62
3:C:44:VAL:HG11	3:C:59:ILE:CD1	2.30	0.62
3:C:65:ARG:CZ	3:C:85:ARG:HG3	2.30	0.62
6:F:302:ASP:OD1	6:F:332:THR:OG1	2.10	0.62
7:G:201:LEU:HD22	14:Q:24:LYS:HZ2	1.63	0.62
8:H:357:MET:HE2	8:H:401:LEU:O	2.00	0.62
11:K:282:ASN:HA	11:K:285:LYS:HE2	1.82	0.62
11:K:293:ALA:O	11:K:297:LYS:HG2	2.00	0.62
12:L:82:GLU:HG2	12:L:415:GLN:HE22	1.63	0.62
12:L:204:ALA:HA	12:L:207:LEU:CD2	2.30	0.62
12:L:321:LEU:HG	12:L:457:VAL:HG22	1.81	0.62
12:L:496:PRO:HB2	12:L:651:ASP:HB3	1.81	0.62
12:L:753:PHE:HB2	12:L:785:PHE:HZ	1.64	0.62
13:P:151:GLN:NE2	13:P:155:GLU:OE2	2.28	0.62
13:P:153:TYR:CD2	13:P:243:VAL:HG21	2.34	0.62
13:P:314:GLU:HB2	14:R:179:LEU:HD11	1.81	0.62
13:P:344:LYS:HA	13:P:344:LYS:HE3	1.81	0.62
3:C:83:LEU:O	3:C:105:LEU:HD13	1.99	0.62
6:F:78:TRP:CH2	6:F:103:LYS:HD3	2.35	0.62
6:F:359:ASP:OD2	6:F:386:SER:OG	2.17	0.62
8:H:98:LEU:HB3	8:H:109:PHE:HE1	1.64	0.62
9:I:26:PHE:CZ	9:I:37:VAL:HG23	2.35	0.62
9:I:132:PHE:CZ	12:L:189:GLN:HA	2.32	0.62
11:K:150:MET:SD	11:K:151:GLN:NE2	2.61	0.62
11:K:379:GLU:O	11:K:383:GLU:HG2	1.99	0.62
13:P:293:LYS:HG2	14:R:175:ALA:N	2.15	0.62
13:P:315:LEU:HG	14:R:163:LEU:CD1	2.28	0.62
14:R:70:LEU:CD2	14:R:86:LEU:HD11	2.30	0.62
15:S:29:VAL:HG13	15:s:32:LEU:HD11	1.82	0.62
3:C:324:MET:HE1	3:C:439:ILE:CA	2.26	0.61
5:E:61:HIS:NE2	12:L:269:VAL:O	2.32	0.61
6:F:143:THR:CG2	6:F:167:SER:HB3	2.30	0.61
6:F:284:LEU:O	6:F:315:ASN:ND2	2.26	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:242:LYS:HA	8:H:245:GLN:CD	2.25	0.61
8:H:448:LEU:HD12	8:H:469:PHE:O	2.00	0.61
10:J:205:ALA:HB1	11:K:269:LYS:HB3	1.82	0.61
12:L:15:ASN:O	12:L:18:MET:HG2	2.00	0.61
12:L:580:ILE:O	12:L:583:ILE:HG22	2.00	0.61
12:L:610:MET:HG2	12:L:740:TYR:HA	1.82	0.61
3:C:331:LYS:CE	3:C:438:ILE:HD11	2.30	0.61
7:G:144:LEU:N	7:G:169:LEU:HD11	2.15	0.61
8:H:250:LYS:O	8:H:253:GLU:HG3	2.00	0.61
8:H:476:LYS:HB3	8:H:494:GLU:OE2	2.00	0.61
10:J:353:GLU:HA	14:Q:116:ILE:HG12	1.82	0.61
12:L:637:PRO:HB3	12:L:692:PHE:CG	2.34	0.61
12:L:661:ALA:O	12:L:714:VAL:HG21	2.00	0.61
2:B:84:LEU:O	2:B:88:ILE:HG12	2.00	0.61
4:D:205:LEU:HD12	4:D:208:GLU:OE2	1.99	0.61
6:F:159:CYS:SG	6:F:199:ALA:HB1	2.40	0.61
6:F:262:LEU:O	6:F:263:LEU:HD23	2.00	0.61
8:H:537:ARG:HG3	8:H:546:MET:O	2.00	0.61
12:L:1:MET:HG2	12:L:2:SER:H	1.65	0.61
12:L:71:LEU:CD1	12:L:76:LYS:HD2	2.26	0.61
13:P:259:PRO:HG3	13:P:265:GLU:HB2	1.82	0.61
14:Q:34:LEU:HD21	14:Q:113:SER:HB3	1.82	0.61
1:A:37:LYS:HG3	1:A:40:ARG:HH21	1.65	0.61
3:C:334:LEU:O	3:C:338:GLU:HG2	2.00	0.61
4:D:44:ALA:O	4:D:48:VAL:HG23	2.00	0.61
6:F:220:LEU:O	6:F:224:ILE:HG13	2.01	0.61
6:F:347:LEU:HD21	6:F:350:LEU:HD13	1.82	0.61
6:F:350:LEU:HD23	6:F:378:LEU:CD2	2.29	0.61
7:G:170:GLU:HG3	14:Q:21:LYS:CD	2.29	0.61
7:G:173:SER:OG	7:G:202:LYS:HD2	2.00	0.61
7:G:283:TYR:CD1	7:G:311:MET:HG2	2.35	0.61
7:G:312:GLU:C	7:G:313:LEU:HD22	2.26	0.61
8:H:194:ARG:HB2	8:H:276:ASP:OD2	2.00	0.61
8:H:785:GLN:HA	8:H:788:GLU:CG	2.30	0.61
8:H:790:LYS:HE3	8:H:807:GLU:HB3	1.83	0.61
9:I:138:LYS:HE3	9:I:142:GLU:OE2	2.01	0.61
10:J:10:THR:O	10:J:14:ARG:HG2	2.00	0.61
12:L:24:GLU:OE2	12:L:53:LEU:HD13	2.00	0.61
12:L:469:ARG:NH2	12:L:476:LYS:HB2	2.15	0.61
12:L:537:LEU:HD22	12:L:540:ILE:HD13	1.83	0.61
13:P:188:LYS:HA	13:P:239:GLN:HA	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:P:270:MET:N	13:P:307:GLN:O	2.25	0.61
14:R:170:TRP:HA	14:R:174:GLN:OE1	2.00	0.61
2:B:118:ASP:O	2:B:122:ILE:HG13	2.01	0.61
7:G:131:ARG:O	7:G:134:HIS:ND1	2.33	0.61
8:H:188:VAL:HG13	8:H:323:VAL:HG22	1.83	0.61
8:H:420:MET:HE3	8:H:440:ALA:HB3	1.80	0.61
8:H:609:LYS:HE3	8:H:622:TYR:CG	2.34	0.61
8:H:779:ARG:O	8:H:783:GLN:HG2	2.00	0.61
9:I:6:THR:H	9:I:11:LYS:HZ2	1.47	0.61
10:J:40:GLU:HG3	11:K:55:VAL:CG2	2.29	0.61
10:J:175:GLN:HA	10:J:178:LYS:CE	2.30	0.61
10:J:281:ARG:HA	10:J:284:LEU:CD2	2.29	0.61
10:J:303:ARG:O	10:J:307:GLU:OE1	2.18	0.61
11:K:403:ARG:NE	14:R:44:GLU:HB2	2.16	0.61
11:K:421:LYS:HB3	11:K:423:LYS:HG3	1.83	0.61
15:S:103:LYS:NZ	15:s:104:ASP:HB3	2.15	0.61
9:i:91:ARG:HB3	9:i:94:GLU:CD	2.26	0.61
1:A:20:ILE:O	1:A:24:VAL:HG23	2.00	0.61
1:A:78:TRP:CZ2	1:A:97:GLN:HG3	2.35	0.61
3:C:355:LYS:HA	3:C:358:LEU:HD21	1.82	0.61
6:F:309:PHE:CE2	6:F:336:LEU:HB3	2.35	0.61
6:F:395:GLU:HG3	6:F:402:MET:CA	2.27	0.61
6:F:413:THR:O	6:F:417:ILE:HG23	2.00	0.61
7:G:170:GLU:OE2	14:Q:21:LYS:HE2	2.01	0.61
8:H:186:TYR:OH	8:H:347:MET:HE1	2.00	0.61
8:H:789:GLN:O	8:H:793:GLN:HG3	1.99	0.61
8:H:840:LEU:HD12	8:H:841:ASN:N	2.15	0.61
9:I:26:PHE:CE2	9:I:37:VAL:HG23	2.36	0.61
10:J:291:LEU:HB3	11:K:355:ILE:HG21	1.80	0.61
12:L:173:ASP:OD1	12:L:791:ARG:NH2	2.34	0.61
12:L:449:VAL:O	12:L:453:ILE:HG12	1.99	0.61
12:L:638:SER:OG	12:L:673:ASP:OD2	2.13	0.61
13:P:323:MET:HE3	14:R:169:ARG:O	2.01	0.61
15:S:9:LYS:HZ1	15:S:11:LYS:HE3	1.64	0.61
3:C:35:ILE:HD11	3:C:74:ILE:HG21	1.82	0.61
3:C:88:LYS:HG3	3:C:110:TRP:CE3	2.35	0.61
3:C:402:LYS:HG2	3:C:553:ILE:CG2	2.31	0.61
6:F:56:ILE:CG2	6:F:77:PHE:HB2	2.31	0.61
6:F:236:GLU:CG	6:F:264:TYR:HB2	2.29	0.61
7:G:141:LEU:O	7:G:168:VAL:HG12	2.00	0.61
7:G:151:PHE:HB2	7:G:155:GLY:HA3	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:238:THR:HG23	7:G:289:ASN:O	2.00	0.61
8:H:302:ILE:O	8:H:304:PRO:HD3	2.01	0.61
9:I:91:ARG:CG	9:I:94:GLU:HB2	2.30	0.61
10:J:36:LEU:HB3	11:K:55:VAL:HG21	1.83	0.61
10:J:155:LEU:HD22	11:K:223:ILE:HD12	1.82	0.61
10:J:165:GLU:O	10:J:169:LEU:HG	2.01	0.61
11:K:234:GLN:O	11:K:238:THR:HG23	2.00	0.61
12:L:348:PRO:CG	12:L:461:ILE:HG22	2.31	0.61
12:L:631:ILE:O	12:L:668:ILE:HG22	2.00	0.61
13:P:249:LYS:NZ	13:P:357:LEU:HA	2.15	0.61
15:s:54:ARG:CD	15:s:57:LEU:HD12	2.30	0.61
15:s:171:ASP:OD1	15:s:172:PRO:HD2	2.01	0.61
3:C:451:VAL:HA	3:C:505:LYS:HZ2	1.65	0.61
4:D:60:PHE:CE2	12:L:750:MET:HE3	2.35	0.61
6:F:34:VAL:HG21	6:F:55:ILE:CD1	2.31	0.61
6:F:296:LYS:HD3	6:F:322:ASP:OD1	2.01	0.61
6:F:395:GLU:HG2	6:F:402:MET:HG3	1.82	0.61
7:G:217:PHE:CE2	7:G:270:ILE:HA	2.35	0.61
8:H:81:LYS:CG	8:H:85:GLN:HE22	2.14	0.61
8:H:649:ASN:O	8:H:651:PRO:HD3	2.01	0.61
8:H:790:LYS:CE	8:H:807:GLU:HB3	2.31	0.61
10:J:152:LEU:C	10:J:154:LYS:H	2.08	0.61
10:J:259:LEU:CD2	11:K:327:LYS:HD3	2.31	0.61
12:L:52:THR:O	12:L:56:LYS:HG2	2.00	0.61
13:P:155:GLU:HA	13:P:234:PHE:CD2	2.35	0.61
13:P:330:ARG:CD	13:P:353:LEU:HD23	2.30	0.61
14:Q:107:ALA:CA	14:Q:110:ILE:HD12	2.25	0.61
14:R:155:ARG:NH2	14:R:158:GLN:OE1	2.34	0.61
14:R:161:GLU:OE2	14:R:164:MET:HE3	2.00	0.61
9:i:66:ILE:HD12	9:i:75:ILE:CD1	2.31	0.61
15:s:164:VAL:HA	15:s:167:ASP:OD2	2.00	0.61
2:B:44:LYS:HG3	4:D:41:ARG:NH1	2.15	0.61
2:B:60:VAL:CG1	9:i:179:ASN:HB3	2.31	0.61
2:B:248:VAL:O	2:B:252:GLN:HG3	2.01	0.61
6:F:174:THR:CB	6:F:177:SER:HB3	2.29	0.61
7:G:115:ASP:O	7:G:116:LEU:HD22	2.01	0.61
8:H:270:PRO:HG3	8:H:458:TYR:CE1	2.36	0.61
8:H:488:LYS:CD	8:H:516:ILE:HD11	2.31	0.61
9:I:42:ILE:CD1	9:I:75:ILE:HG21	2.14	0.61
9:I:46:MET:HE1	9:I:62:ILE:CG2	2.31	0.61
10:J:356:ASP:HB2	14:Q:47:LYS:CB	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:358:GLY:CA	14:Q:51:GLN:HG2	2.26	0.61
11:K:14:ARG:HD3	11:K:15:PRO:HD2	1.82	0.61
11:K:73:ILE:HG23	11:K:163:LEU:HD13	1.82	0.61
12:L:297:HIS:CD2	12:L:435:LYS:HD3	2.36	0.61
12:L:749:ARG:NH2	12:L:773:ILE:HG22	2.16	0.61
15:S:9:LYS:NZ	15:S:11:LYS:HE3	2.15	0.61
9:i:14:GLN:O	9:i:18:LEU:HG	1.99	0.61
3:C:321:VAL:O	3:C:324:MET:HB3	2.00	0.61
5:E:61:HIS:HB2	12:L:268:LYS:HE2	1.83	0.61
6:F:64:ASP:OD1	6:F:67:THR:HB	2.00	0.61
6:F:422:THR:HG1	6:F:428:PHE:HE2	1.48	0.61
8:H:328:ASN:OD1	8:H:329:PHE:N	2.34	0.61
8:H:342:LEU:HB3	8:H:353:TRP:HZ2	1.66	0.61
8:H:776:ILE:HG21	8:H:822:ALA:HB2	1.81	0.61
11:K:102:LEU:HB2	11:K:107:LEU:HD21	1.83	0.61
12:L:527:LEU:CD2	12:L:585:ALA:HB2	2.30	0.61
13:P:315:LEU:HB2	14:R:175:ALA:HB1	1.82	0.61
15:S:60:LEU:HB3	15:S:64:PHE:CZ	2.36	0.61
15:S:82:TYR:CD1	15:s:82:TYR:HB3	2.36	0.61
9:i:18:LEU:HD12	9:i:85:LEU:CD1	2.28	0.61
9:i:51:GLN:HE21	9:i:88:LEU:HD23	1.66	0.61
1:A:60:ILE:CA	1:A:63:GLU:HG2	2.31	0.60
1:A:78:TRP:HB3	1:A:82:LYS:CE	2.31	0.60
1:A:78:TRP:HB3	1:A:82:LYS:HE3	1.82	0.60
2:B:53:ARG:HG3	5:E:32:LEU:HA	1.83	0.60
2:B:59:LYS:HG2	5:E:40:ASN:HD21	1.65	0.60
2:B:119:GLN:HA	2:B:122:ILE:HD12	1.83	0.60
3:C:39:LEU:CD2	3:C:72:LYS:HE3	2.30	0.60
3:C:299:LYS:HA	3:C:306:ILE:CD1	2.27	0.60
6:F:145:ASN:C	6:F:146:LEU:HD12	2.26	0.60
8:H:320:VAL:HG11	8:H:353:TRP:HH2	1.66	0.60
12:L:549:LEU:HD22	12:L:571:LYS:NZ	2.16	0.60
12:L:603:LYS:CB	12:L:710:PRO:HB3	2.24	0.60
14:Q:152:GLY:HA2	14:Q:192:TYR:HE1	1.65	0.60
14:Q:157:GLU:OE1	14:Q:188:GLU:HG2	2.01	0.60
15:s:105:GLU:HG2	15:s:109:LYS:NZ	2.16	0.60
2:B:63:PHE:HB3	9:i:180:ASN:HB3	1.83	0.60
3:C:398:THR:O	3:C:402:LYS:HG3	2.01	0.60
5:E:194:LYS:O	5:E:198:GLU:OE1	2.19	0.60
7:G:87:ARG:HD2	7:G:115:ASP:OD2	2.00	0.60
7:G:217:PHE:CZ	7:G:270:ILE:HG12	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:48:TYR:CZ	12:L:201:ALA:HB3	2.36	0.60
10:J:152:LEU:HD22	11:K:212:HIS:CE1	2.36	0.60
11:K:64:ILE:CG2	11:K:195:LYS:HB2	2.31	0.60
12:L:56:LYS:O	12:L:60:ILE:HG13	2.02	0.60
12:L:827:LYS:NZ	12:L:830:LYS:HD2	2.15	0.60
13:P:256:ILE:CD1	13:P:364:TYR:HB3	2.27	0.60
13:P:304:ARG:HD2	13:P:334:ASP:OD1	2.01	0.60
1:A:73:ALA:O	1:A:77:LYS:HG2	2.01	0.60
3:C:65:ARG:O	3:C:86:LEU:HD12	2.00	0.60
3:C:297:ARG:CB	3:C:500:MET:HE1	2.30	0.60
3:C:367:GLU:OE1	3:C:397:LYS:HD2	2.01	0.60
6:F:188:MET:HE1	6:F:193:ALA:CB	2.26	0.60
9:I:60:ASP:O	9:I:64:PRO:HG2	2.01	0.60
10:J:25:THR:O	10:J:28:ARG:HB2	2.00	0.60
10:J:85:ALA:O	10:J:89:LYS:HG2	2.01	0.60
10:J:346:LEU:O	10:J:350:GLU:HG3	2.01	0.60
12:L:18:MET:HA	12:L:21:VAL:HG12	1.83	0.60
12:L:86:ASN:HB3	12:L:412:LEU:CG	2.31	0.60
12:L:117:ASP:HB2	12:L:121:MET:HE1	1.82	0.60
12:L:306:GLU:OE2	12:L:310:ARG:NH2	2.34	0.60
12:L:513:LEU:HD22	12:L:518:VAL:HG11	1.83	0.60
12:L:637:PRO:HD2	12:L:673:ASP:HB2	1.83	0.60
12:L:696:LYS:O	12:L:700:MET:HB2	2.01	0.60
12:L:755:THR:O	12:L:759:GLN:HG3	2.01	0.60
14:Q:25:GLU:O	14:Q:28:GLU:HG2	2.01	0.60
9:i:58:VAL:HA	9:i:62:ILE:CD1	2.31	0.60
1:A:143:LYS:HD3	6:F:400:PHE:CE2	2.36	0.60
1:A:149:TYR:OH	5:E:120:ALA:HB1	2.01	0.60
2:B:105:PHE:O	2:B:109:LEU:HG	2.01	0.60
3:C:44:VAL:HG11	3:C:59:ILE:HD13	1.81	0.60
3:C:199:ASN:HB2	3:C:202:THR:CG2	2.31	0.60
8:H:98:LEU:O	8:H:109:PHE:HD1	1.85	0.60
8:H:168:PHE:CD1	8:H:285:CYS:HB2	2.36	0.60
8:H:505:GLN:O	8:H:509:GLN:HG3	2.01	0.60
8:H:603:ALA:HB1	8:H:624:HIS:CB	2.28	0.60
12:L:79:LEU:HD13	12:L:418:LYS:NZ	2.15	0.60
12:L:428:GLU:OE1	12:L:434:GLN:HG2	2.01	0.60
12:L:764:LEU:HD12	12:L:764:LEU:O	2.02	0.60
14:Q:182:ILE:CG2	14:Q:190:ILE:HD13	2.32	0.60
15:S:117:MET:HE1	15:s:114:ILE:HD13	1.84	0.60
1:A:85:ASP:CB	2:B:77:ARG:HH21	2.15	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:164:ARG:HA	1:A:167:GLU:OE2	2.02	0.60
2:B:35:GLU:O	2:B:39:LEU:N	2.31	0.60
2:B:260:ASN:HB2	2:B:261:ARG:HH12	1.64	0.60
3:C:85:ARG:H	3:C:85:ARG:HD3	1.66	0.60
3:C:91:LEU:HB2	3:C:113:LEU:HD23	1.83	0.60
3:C:199:ASN:O	3:C:202:THR:OG1	2.12	0.60
3:C:326:ALA:O	3:C:330:GLN:NE2	2.35	0.60
7:G:57:ILE:O	7:G:87:ARG:N	2.33	0.60
7:G:83:THR:O	7:G:84:LYS:HD3	2.02	0.60
8:H:147:ASN:OD1	8:H:148:GLU:HG3	2.00	0.60
8:H:193:PRO:HG3	8:H:316:PRO:HB2	1.83	0.60
11:K:57:ALA:CB	11:K:202:LEU:HB3	2.30	0.60
11:K:208:GLU:O	11:K:211:ASN:HB3	2.01	0.60
11:K:252:LYS:O	11:K:256:GLU:OE1	2.20	0.60
11:K:407:ALA:HB2	14:R:48:GLN:CG	2.32	0.60
12:L:146:LEU:HD21	12:L:666:PRO:CD	2.22	0.60
12:L:324:MET:CE	12:L:454:LYS:HA	2.29	0.60
12:L:324:MET:SD	12:L:457:VAL:HG21	2.41	0.60
13:P:116:THR:O	13:P:120:ILE:HG13	2.01	0.60
13:P:125:LEU:HD22	13:P:142:ILE:HG12	1.83	0.60
14:Q:112:VAL:O	14:Q:116:ILE:HG13	2.01	0.60
14:R:65:ILE:HA	14:R:69:GLU:OE1	2.01	0.60
9:i:2:TYR:CD2	9:i:89:LYS:HA	2.36	0.60
9:i:103:ALA:O	9:i:106:LYS:HG2	2.01	0.60
9:i:120:MET:HG2	9:i:124:PHE:CE2	2.34	0.60
1:A:48:GLU:HG2	1:A:53:ARG:HG3	1.82	0.60
1:A:108:LYS:HB3	1:A:112:ARG:HH22	1.65	0.60
1:A:163:GLU:O	1:A:167:GLU:OE1	2.19	0.60
6:F:444:GLN:HA	6:F:447:LYS:HG2	1.82	0.60
7:G:81:LEU:HD22	7:G:110:THR:HG21	1.82	0.60
8:H:97:PHE:HE2	8:H:153:ILE:HG13	1.67	0.60
10:J:146:LEU:HD11	11:K:193:CYS:SG	2.42	0.60
10:J:184:GLN:HA	11:K:247:PHE:CE2	2.37	0.60
10:J:354:TRP:HE3	14:Q:112:VAL:HB	1.67	0.60
12:L:99:VAL:HG13	12:L:111:SER:O	2.01	0.60
12:L:738:LYS:HD2	12:L:836:VAL:CG1	2.32	0.60
13:P:190:GLU:HB2	13:P:193:ALA:HB2	1.83	0.60
13:P:315:LEU:CD1	14:R:163:LEU:HD12	2.32	0.60
13:P:320:GLN:HB2	14:R:166:LEU:H	1.66	0.60
1:A:13:ILE:HG22	1:A:17:ARG:NE	2.07	0.60
1:A:13:ILE:HB	1:A:17:ARG:HH21	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:93:GLN:O	2:B:96:GLN:HG3	2.02	0.60
3:C:273:LYS:CE	3:C:329:ILE:HD13	2.32	0.60
3:C:391:LEU:CB	3:C:564:LEU:HD21	2.23	0.60
4:D:213:ARG:HG2	5:E:201:LEU:HD13	1.84	0.60
6:F:300:LEU:HG	6:F:326:ASN:OD1	2.02	0.60
7:G:59:LEU:O	7:G:88:LEU:HD23	2.02	0.60
8:H:253:GLU:HA	8:H:256:GLU:OE1	2.01	0.60
9:I:47:ARG:HB3	12:L:198:ILE:CG1	2.31	0.60
10:J:354:TRP:HA	10:J:355:LYS:CD	2.31	0.60
12:L:610:MET:CE	12:L:738:LYS:HE3	2.29	0.60
12:L:744:PRO:HB2	12:L:749:ARG:HB2	1.83	0.60
14:Q:21:LYS:HB2	14:Q:26:ILE:HD12	1.83	0.60
15:S:97:ASN:O	15:S:101:ILE:HG12	2.01	0.60
15:S:139:ILE:HG23	15:s:142:MET:HE1	1.84	0.60
1:A:8:LYS:HD3	1:A:166:PHE:CE1	2.36	0.60
1:A:239:PHE:HB3	1:A:242:MET:HE2	1.83	0.60
2:B:80:LYS:HA	2:B:83:GLN:OE1	2.01	0.60
3:C:70:SER:HB3	4:D:227:LYS:NZ	2.17	0.60
3:C:102:ILE:CG2	3:C:124:LEU:HA	2.32	0.60
3:C:157:ILE:HG22	3:C:196:VAL:HG12	1.83	0.60
5:E:66:GLU:O	5:E:70:VAL:HG23	2.01	0.60
6:F:420:ASP:O	6:F:423:ALA:HB3	2.02	0.60
7:G:111:ILE:O	7:G:140:PRO:HG2	2.01	0.60
8:H:544:LYS:HG3	8:H:561:ILE:O	2.00	0.60
8:H:549:TYR:HB2	8:H:557:ILE:C	2.27	0.60
11:K:69:THR:HG21	11:K:164:ARG:CD	2.31	0.60
12:L:336:LEU:O	12:L:340:GLU:N	2.35	0.60
12:L:496:PRO:CB	12:L:651:ASP:HB3	2.32	0.60
13:P:325:ILE:O	13:P:358:ARG:HA	2.02	0.60
3:C:83:LEU:HD22	3:C:85:ARG:NH1	2.17	0.60
6:F:155:ILE:HG21	6:F:196:LEU:HD12	1.84	0.60
6:F:198:GLU:O	6:F:201:LYS:HG2	2.01	0.60
6:F:390:GLU:HA	6:F:393:GLU:OE1	2.00	0.60
6:F:390:GLU:HA	6:F:393:GLU:CD	2.27	0.60
7:G:241:GLY:HA3	15:S:62:LYS:HD2	1.84	0.60
8:H:619:VAL:HG22	8:H:639:ARG:HH21	1.66	0.60
12:L:22:THR:O	12:L:26:LEU:HG	2.02	0.60
12:L:522:LEU:HD11	12:L:632:VAL:HG11	1.83	0.60
13:P:317:LEU:HD12	13:P:320:GLN:NE2	2.16	0.60
14:Q:192:TYR:CZ	14:Q:193:LEU:HG	2.37	0.60
9:i:9:THR:C	9:i:13:LYS:HE3	2.26	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:27:MET:SD	1:A:147:GLN:HG2	2.41	0.60
2:B:60:VAL:H	5:E:37:GLU:CA	2.11	0.60
2:B:213:GLU:O	2:B:217:VAL:HG23	2.02	0.60
3:C:135:LEU:HD12	3:C:155:PHE:HE1	1.67	0.60
3:C:520:GLN:O	3:C:524:GLN:HG3	2.02	0.60
6:F:86:TRP:HB3	6:F:89:SER:OG	2.02	0.60
7:G:82:HIS:O	7:G:84:LYS:HE2	2.01	0.60
8:H:183:TYR:HA	8:H:294:ARG:HB3	1.84	0.60
8:H:643:HIS:CE1	8:H:670:VAL:HG13	2.36	0.60
9:I:94:GLU:HG3	9:I:95:PRO:HD2	1.84	0.60
11:K:47:THR:HB	11:K:51:LYS:HZ2	1.65	0.60
11:K:71:LEU:HD13	11:K:191:ILE:HG13	1.83	0.60
12:L:304:GLU:HG2	12:L:436:HIS:NE2	2.16	0.60
12:L:525:ALA:HB3	12:L:622:ARG:C	2.27	0.60
13:P:264:ILE:H	14:R:160:LYS:HD3	1.67	0.60
13:P:291:ASP:HB2	14:R:202:ARG:NH2	2.15	0.60
15:S:165:GLN:NE2	15:S:178:LEU:HD12	2.17	0.60
15:s:113:GLN:HB3	15:s:117:MET:CE	2.21	0.60
1:A:5:GLN:CG	1:A:169:GLU:HG2	2.32	0.59
1:A:239:PHE:CB	1:A:242:MET:HE2	2.31	0.59
2:B:48:GLU:HG3	4:D:40:MET:CB	2.31	0.59
2:B:181:MET:O	2:B:184:THR:OG1	2.15	0.59
3:C:112:ASP:HA	3:C:134:SER:HB2	1.83	0.59
3:C:282:LEU:CD2	3:C:285:LEU:HD11	2.22	0.59
3:C:345:SER:OG	8:H:232:ALA:HB2	2.01	0.59
3:C:362:LYS:O	3:C:365:GLU:HG2	2.02	0.59
3:C:451:VAL:HA	3:C:505:LYS:HE3	1.83	0.59
6:F:208:SER:CB	6:F:236:GLU:HB2	2.31	0.59
7:G:90:LYS:O	7:G:92:LYS:HG3	2.02	0.59
7:G:159:LEU:HD12	7:G:163:LEU:CD1	2.31	0.59
10:J:262:LYS:HG2	10:J:266:ILE:CD1	2.32	0.59
11:K:344:LEU:HD23	11:K:348:GLN:HG3	1.83	0.59
12:L:59:ASP:OD1	12:L:63:LYS:HE3	2.01	0.59
12:L:105:TYR:OH	12:L:543:ILE:HG13	2.02	0.59
12:L:118:GLU:OE1	12:L:539:LYS:HE2	2.01	0.59
12:L:605:ASN:N	12:L:736:ASP:OD2	2.33	0.59
15:S:12:ASN:HB3	15:S:15:ASP:CG	2.27	0.59
9:i:18:LEU:HD13	9:i:88:LEU:HB2	1.83	0.59
1:A:8:LYS:NZ	1:A:166:PHE:HA	2.17	0.59
1:A:190:ASP:O	1:A:194:GLN:HG3	2.01	0.59
2:B:57:GLU:CA	5:E:38:ARG:H	2.13	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:108:LEU:CG	3:C:130:LEU:HD13	2.32	0.59
5:E:97:GLN:NE2	15:s:84:GLN:HB3	2.16	0.59
6:F:277:SER:CB	6:F:300:LEU:HD22	2.30	0.59
8:H:337:CYS:SG	8:H:341:ASN:HB2	2.42	0.59
8:H:708:LYS:HB3	8:H:712:ARG:CZ	2.32	0.59
8:H:783:GLN:HG3	8:H:818:LEU:CD1	2.31	0.59
9:I:46:MET:SD	9:I:53:PRO:HG3	2.42	0.59
10:J:205:ALA:CB	11:K:269:LYS:HB3	2.31	0.59
10:J:223:GLN:HA	10:J:226:MET:HG2	1.85	0.59
12:L:304:GLU:O	12:L:308:LEU:HG	2.02	0.59
12:L:723:PRO:HB2	12:L:832:PHE:CG	2.36	0.59
13:P:158:VAL:CG2	13:P:234:PHE:HB3	2.33	0.59
9:i:62:ILE:HA	9:i:83:TYR:OH	2.02	0.59
9:i:121:MET:HE1	9:i:154:ILE:CD1	2.32	0.59
1:A:162:ILE:HG22	1:A:166:PHE:CE2	2.37	0.59
1:A:260:LEU:HA	1:A:263:LYS:NZ	2.17	0.59
3:C:237:ARG:NH2	3:C:242:ILE:HG22	2.16	0.59
3:C:295:LEU:HD11	3:C:310:ILE:HD11	1.84	0.59
3:C:545:ASN:CG	8:H:630:ILE:HD12	2.27	0.59
7:G:113:TYR:HE2	7:G:143:LYS:HE3	1.67	0.59
8:H:157:THR:O	8:H:161:VAL:HG23	2.01	0.59
8:H:183:TYR:CD1	8:H:294:ARG:HB3	2.37	0.59
8:H:301:PHE:HB3	8:H:317:TYR:HE2	1.67	0.59
8:H:407:TRP:CD2	8:H:408:PRO:HD3	2.36	0.59
10:J:115:ASP:HB3	11:K:202:LEU:HD21	1.83	0.59
10:J:354:TRP:CB	14:Q:112:VAL:HB	2.32	0.59
11:K:413:HIS:CA	14:R:56:LEU:HG	2.32	0.59
12:L:14:ILE:HG22	12:L:18:MET:CE	2.32	0.59
12:L:246:GLY:O	12:L:250:ARG:HG3	2.02	0.59
12:L:413:GLN:O	12:L:417:GLU:OE1	2.20	0.59
12:L:609:PHE:CD2	12:L:719:SER:HB2	2.37	0.59
13:P:266:ILE:HB	14:R:172:GLU:CD	2.28	0.59
14:Q:81:PHE:CE2	14:Q:115:LYS:HE2	2.37	0.59
14:Q:140:LEU:HA	14:Q:143:THR:OG1	2.02	0.59
15:S:128:LYS:HD2	15:s:128:LYS:HB2	1.83	0.59
9:i:22:ILE:HG21	9:i:81:GLU:HA	1.84	0.59
1:A:237:LYS:HD2	5:E:223:HIS:CD2	2.36	0.59
2:B:117:GLU:HA	2:B:120:PHE:CD2	2.36	0.59
3:C:332:HIS:O	3:C:336:LEU:HD23	2.02	0.59
3:C:444:LYS:O	3:C:448:GLU:HG2	2.03	0.59
7:G:55:GLU:HA	7:G:83:THR:HA	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:62:GLU:OE1	15:s:35:ARG:HG3	2.03	0.59
7:G:69:ARG:HG3	7:G:96:GLU:OE2	2.02	0.59
7:G:191:LEU:HD12	7:G:219:ALA:HB3	1.84	0.59
8:H:5:GLU:O	8:H:8:TYR:CD2	2.54	0.59
8:H:146:PRO:HB2	8:H:282:ARG:CG	2.22	0.59
8:H:257:GLU:O	8:H:260:ARG:HG3	2.01	0.59
8:H:846:LEU:HB3	8:H:849:LEU:HD11	1.84	0.59
11:K:163:LEU:HD23	11:K:169:ASP:CB	2.31	0.59
11:K:304:LYS:HA	11:K:304:LYS:HE2	1.83	0.59
12:L:51:ALA:CB	12:L:119:LEU:HD22	2.30	0.59
12:L:610:MET:HE3	12:L:739:ILE:O	2.02	0.59
13:P:250:VAL:HG13	14:R:12:VAL:CG2	2.32	0.59
13:P:294:GLY:H	14:R:177:GLU:HG2	1.67	0.59
13:P:322:ARG:H	14:R:169:ARG:N	1.99	0.59
13:P:322:ARG:HG3	13:P:322:ARG:O	2.00	0.59
15:s:124:LYS:O	15:s:128:LYS:HG3	2.02	0.59
1:A:23:LEU:HD11	1:A:151:ILE:HD11	1.83	0.59
3:C:154:VAL:HG13	3:C:193:VAL:CG1	2.32	0.59
3:C:297:ARG:CG	3:C:500:MET:HE1	2.32	0.59
3:C:517:LEU:O	3:C:521:MET:HG2	2.02	0.59
5:E:53:ARG:NH1	5:E:57:GLU:OE1	2.35	0.59
6:F:78:TRP:CZ3	6:F:103:LYS:HD3	2.37	0.59
6:F:219:ASP:OD1	6:F:220:LEU:N	2.36	0.59
6:F:265:LEU:HD11	6:F:267:LEU:CG	2.31	0.59
7:G:88:LEU:HB3	7:G:91:VAL:HG13	1.83	0.59
7:G:92:LYS:HA	7:G:119:ASN:O	2.02	0.59
7:G:235:GLN:NE2	15:S:54:ARG:HG3	2.16	0.59
11:K:434:LYS:HZ1	14:Q:134:LYS:HG3	1.67	0.59
12:L:214:LYS:HA	12:L:217:ARG:HG2	1.83	0.59
13:P:317:LEU:CB	14:R:162:LEU:HB3	2.31	0.59
9:i:26:PHE:CE1	9:i:37:VAL:HB	2.38	0.59
1:A:5:GLN:HE21	1:A:172:ASN:HB2	1.66	0.59
6:F:182:ASN:HB3	6:F:185:SER:HB3	1.83	0.59
6:F:190:LEU:HD23	6:F:220:LEU:CD2	2.31	0.59
6:F:392:LYS:HA	6:F:395:GLU:OE1	2.03	0.59
8:H:491:GLU:O	8:H:512:GLN:HG3	2.03	0.59
8:H:824:ARG:HE	8:H:828:MET:CE	2.09	0.59
12:L:345:PRO:HB2	12:L:465:LEU:CD2	2.25	0.59
13:P:399:ASP:CA	13:P:402:ARG:HG2	2.31	0.59
9:i:78:SER:OG	9:i:79:LYS:HD2	2.02	0.59
1:A:224:LEU:HD11	2:B:219:LYS:NZ	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:56:ASP:N	5:E:37:GLU:N	2.51	0.59
3:C:54:ILE:HG22	3:C:56:THR:CG2	2.32	0.59
3:C:166:GLU:CG	3:C:176:PRO:HG3	2.33	0.59
6:F:262:LEU:C	6:F:263:LEU:HD23	2.28	0.59
6:F:352:ILE:HG22	6:F:355:ASN:ND2	2.18	0.59
8:H:313:SER:HA	8:H:340:LYS:CG	2.28	0.59
8:H:558:TYR:HB3	8:H:594:LYS:CE	2.33	0.59
8:H:783:GLN:HB3	8:H:815:ILE:CG1	2.25	0.59
10:J:353:GLU:O	10:J:355:LYS:N	2.36	0.59
11:K:194:GLN:C	11:K:198:MET:HE3	2.27	0.59
12:L:23:LEU:O	12:L:27:PRO:HD3	2.02	0.59
12:L:534:GLN:HE22	12:L:582:GLN:NE2	2.01	0.59
12:L:583:ILE:HG13	12:L:587:TYR:CE1	2.38	0.59
13:P:144:LEU:HD21	13:P:364:TYR:CD1	2.37	0.59
1:A:23:LEU:HD11	1:A:151:ILE:CD1	2.33	0.59
2:B:62:THR:C	9:i:177:GLY:HA2	2.28	0.59
3:C:358:LEU:O	3:C:362:LYS:HG3	2.03	0.59
8:H:303:GLU:HB2	8:H:308:ARG:H	1.68	0.59
8:H:477:LEU:HD11	8:H:491:GLU:CD	2.27	0.59
8:H:558:TYR:CB	8:H:594:LYS:HE2	2.33	0.59
8:H:613:ASP:HB3	8:H:616:LYS:CD	2.32	0.59
9:I:58:VAL:HA	9:I:62:ILE:HD12	1.84	0.59
11:K:355:ILE:HA	11:K:358:GLU:CG	2.33	0.59
11:K:413:HIS:O	14:R:55:ALA:HB3	2.02	0.59
12:L:112:ASP:HB3	12:L:583:ILE:HD12	1.85	0.59
12:L:134:ILE:CD1	12:L:589:ALA:HB2	2.28	0.59
12:L:353:ASN:O	12:L:356:VAL:HG12	2.02	0.59
12:L:669:ILE:O	12:L:717:ILE:N	2.31	0.59
14:R:143:THR:CG2	14:R:146:GLU:HG3	2.33	0.59
15:S:29:VAL:HG13	15:s:32:LEU:CD1	2.33	0.59
1:A:210:ILE:HG22	1:A:214:ARG:NH1	2.17	0.59
3:C:136:PHE:HB2	3:C:156:SER:OG	2.01	0.59
3:C:146:LEU:HB2	3:C:171:TYR:HE2	1.65	0.59
6:F:391:GLU:HG2	6:F:404:ASN:HD22	1.66	0.59
7:G:37:SER:CB	7:G:40:PHE:HD2	2.15	0.59
8:H:214:TYR:HB2	8:H:481:ARG:CD	2.33	0.59
8:H:458:TYR:O	8:H:460:ARG:NH1	2.36	0.59
12:L:700:MET:HA	12:L:734:PHE:CE1	2.37	0.59
13:P:177:LEU:HG	13:P:358:ARG:CB	2.32	0.59
9:i:87:VAL:O	9:i:91:ARG:N	2.36	0.59
1:A:60:ILE:HA	1:A:63:GLU:CG	2.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:282:LEU:O	3:C:285:LEU:HG	2.03	0.59
3:C:454:TYR:CG	3:C:505:LYS:HD2	2.37	0.59
4:D:242:ILE:HD12	5:E:230:LEU:HD22	1.85	0.59
4:D:264:ILE:HD11	5:E:248:HIS:CE1	2.38	0.59
6:F:174:THR:CG2	6:F:185:SER:HB2	2.32	0.59
6:F:302:ASP:OD2	6:F:331:GLU:HB2	2.02	0.59
6:F:414:GLN:NE2	6:F:431:GLU:OE1	2.30	0.59
8:H:252:ARG:O	8:H:256:GLU:OE1	2.21	0.59
8:H:522:ILE:HG12	8:H:538:VAL:CG2	2.33	0.59
8:H:814:LYS:CD	8:H:817:ILE:HD11	2.31	0.59
10:J:109:ALA:O	10:J:113:LYS:HG2	2.03	0.59
10:J:354:TRP:CH2	14:Q:109:PHE:HA	2.37	0.59
11:K:69:THR:HG21	11:K:164:ARG:HD2	1.85	0.59
12:L:408:ILE:HD11	12:L:600:LYS:HD2	1.85	0.59
12:L:419:HIS:HA	12:L:423:TRP:HE3	1.67	0.59
12:L:610:MET:HE1	12:L:738:LYS:HB2	1.83	0.59
12:L:661:ALA:HA	12:L:667:ALA:HB3	1.85	0.59
13:P:165:ASP:HB3	14:R:21:LYS:HD3	1.84	0.59
13:P:188:LYS:HA	13:P:239:GLN:CB	2.33	0.59
13:P:256:ILE:HG12	13:P:266:ILE:CG2	2.33	0.59
14:Q:70:LEU:O	14:Q:74:LEU:HG	2.03	0.59
15:S:20:GLU:O	15:S:24:VAL:HG23	2.02	0.59
9:i:66:ILE:HB	9:i:75:ILE:HD11	1.84	0.59
1:A:148:PHE:CD1	2:B:145:LEU:HD11	2.37	0.58
1:A:182:GLN:O	1:A:185:PHE:HD2	1.86	0.58
2:B:60:VAL:CA	9:i:179:ASN:HB3	2.32	0.58
3:C:76:LYS:HG3	3:C:98:LYS:HZ3	1.67	0.58
3:C:79:HIS:CD2	10:J:225:ARG:HH21	2.21	0.58
3:C:102:ILE:HG22	3:C:123:GLY:O	2.03	0.58
4:D:245:TYR:CZ	4:D:249:ILE:HD11	2.38	0.58
8:H:114:ILE:HG23	8:H:176:SER:OG	2.03	0.58
8:H:278:TYR:O	8:H:282:ARG:HG3	2.02	0.58
8:H:477:LEU:HD21	8:H:480:ARG:CD	2.33	0.58
8:H:770:LEU:O	8:H:774:GLU:OE1	2.21	0.58
9:I:46:MET:HB3	9:I:51:GLN:HB2	1.85	0.58
10:J:13:LEU:HD22	10:J:123:ILE:HG23	1.85	0.58
11:K:147:ARG:O	11:K:150:MET:HG3	2.02	0.58
11:K:211:ASN:OD1	11:K:216:LEU:N	2.35	0.58
12:L:241:LYS:HD3	9:i:130:ILE:O	2.02	0.58
12:L:305:ILE:HG23	12:L:445:ILE:CD1	2.33	0.58
13:P:183:CYS:HB2	13:P:244:LEU:HB2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:P:291:ASP:H	14:R:202:ARG:NH2	2.01	0.58
14:R:38:PHE:CZ	14:R:47:LYS:HG2	2.38	0.58
9:i:58:VAL:O	9:i:62:ILE:HB	2.03	0.58
1:A:229:GLU:HA	1:A:232:ILE:CD1	2.25	0.58
2:B:60:VAL:N	5:E:37:GLU:HA	2.14	0.58
2:B:189:ASP:O	2:B:193:THR:HG23	2.03	0.58
3:C:75:LEU:HD13	3:C:95:ILE:CD1	2.32	0.58
3:C:545:ASN:OD1	8:H:630:ILE:HD12	2.04	0.58
7:G:113:TYR:OH	7:G:145:LYS:NZ	2.29	0.58
7:G:143:LYS:HZ3	7:G:171:LYS:HD2	1.68	0.58
8:H:613:ASP:HB3	8:H:616:LYS:CG	2.34	0.58
9:I:58:VAL:HA	9:I:62:ILE:HB	1.85	0.58
10:J:237:LYS:CD	11:K:302:LEU:HD11	2.34	0.58
11:K:276:LEU:O	11:K:279:GLU:HG3	2.03	0.58
11:K:328:ARG:HA	11:K:331:GLN:HE22	1.66	0.58
13:P:293:LYS:HG3	14:R:177:GLU:H	1.67	0.58
13:P:318:TYR:OH	14:R:195:VAL:HG11	2.02	0.58
15:S:117:MET:SD	15:s:114:ILE:HG23	2.43	0.58
9:i:103:ALA:HA	9:i:106:LYS:HG2	1.84	0.58
1:A:201:LYS:NZ	1:A:204:GLU:OE1	2.26	0.58
3:C:120:LYS:HE3	3:C:144:GLU:OE2	2.04	0.58
3:C:339:MET:O	3:C:342:THR:HB	2.02	0.58
7:G:57:ILE:O	7:G:86:ILE:HA	2.03	0.58
8:H:564:ASP:HB2	8:H:589:THR:HG21	1.84	0.58
8:H:705:LEU:HG	8:H:706:TYR:CD1	2.38	0.58
10:J:263:GLU:O	10:J:267:LYS:HG2	2.03	0.58
12:L:41:ARG:HD2	12:L:46:TRP:NE1	2.18	0.58
12:L:51:ALA:HB3	12:L:119:LEU:CD2	2.32	0.58
12:L:51:ALA:CB	12:L:116:LEU:HD22	2.34	0.58
12:L:62:LYS:HE2	12:L:131:ASP:O	2.03	0.58
12:L:70:GLN:OE1	12:L:290:MET:HB3	2.02	0.58
12:L:71:LEU:HD21	12:L:76:LYS:HG2	1.85	0.58
12:L:348:PRO:HG2	12:L:461:ILE:HG22	1.86	0.58
12:L:564:GLN:O	12:L:567:GLU:HG3	2.03	0.58
13:P:122:ARG:HH21	13:P:369:TYR:HB3	1.68	0.58
13:P:128:ILE:CD1	13:P:244:LEU:HD21	2.33	0.58
13:P:171:LYS:HE2	14:R:16:ASP:O	2.03	0.58
13:P:280:ILE:CG2	14:R:173:GLU:HG2	2.28	0.58
13:P:283:MET:N	13:P:326:GLU:OE1	2.36	0.58
2:B:92:SER:O	2:B:96:GLN:HG2	2.04	0.58
3:C:135:LEU:HB3	3:C:140:ILE:HD11	1.83	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:321:VAL:O	3:C:325:GLN:OE1	2.20	0.58
3:C:398:THR:HG21	3:C:560:ILE:HD11	1.85	0.58
3:C:548:GLN:NE2	8:H:629:GLU:HG2	2.19	0.58
5:E:29:THR:HA	5:E:32:LEU:HD12	1.85	0.58
6:F:300:LEU:HB3	6:F:304:ALA:HB3	1.86	0.58
7:G:170:GLU:C	7:G:199:LYS:HG2	2.28	0.58
7:G:204:LYS:HA	7:G:234:ASN:HD21	1.69	0.58
8:H:301:PHE:CE2	8:H:312:PRO:HG3	2.37	0.58
9:I:49:LEU:HB3	9:I:88:LEU:HD11	1.84	0.58
10:J:299:GLN:O	10:J:303:ARG:HG2	2.04	0.58
12:L:668:ILE:CD1	12:L:715:VAL:HB	2.32	0.58
12:L:700:MET:HE3	12:L:704:LYS:HZ1	1.69	0.58
13:P:177:LEU:HD11	13:P:355:LEU:HD21	1.86	0.58
14:R:111:ILE:HA	14:R:114:LYS:CE	2.32	0.58
1:A:31:ILE:HD13	1:A:140:MET:HE3	1.86	0.58
1:A:38:ASN:OD1	2:B:128:LEU:HD21	2.04	0.58
3:C:357:THR:O	3:C:361:LEU:HG	2.03	0.58
5:E:38:ARG:O	5:E:41:GLU:HB2	2.04	0.58
6:F:432:SER:O	6:F:436:LYS:HG3	2.03	0.58
7:G:154:GLU:O	7:G:158:GLN:HG2	2.03	0.58
7:G:181:ALA:HA	7:G:208:LEU:HA	1.84	0.58
8:H:448:LEU:CD1	8:H:469:PHE:H	2.15	0.58
8:H:522:ILE:CG1	8:H:538:VAL:HG13	2.29	0.58
12:L:658:PHE:HB3	12:L:707:PHE:CE2	2.39	0.58
12:L:660:VAL:HA	12:L:664:PHE:CD2	2.38	0.58
12:L:675:GLU:HA	12:L:726:CYS:SG	2.44	0.58
13:P:177:LEU:HD12	13:P:358:ARG:N	2.18	0.58
13:P:196:THR:O	13:P:200:ILE:HG13	2.03	0.58
14:R:73:LEU:CD1	14:R:108:VAL:HG21	2.21	0.58
1:A:188:HIS:O	1:A:191:LEU:HB3	2.03	0.58
1:A:239:PHE:O	1:A:242:MET:HG2	2.03	0.58
1:A:269:SER:O	1:A:272:ASP:OD1	2.21	0.58
2:B:54:ILE:H	5:E:36:LYS:HG3	1.68	0.58
3:C:387:GLU:HA	3:C:390:ARG:NE	2.18	0.58
3:C:420:PHE:CE2	3:C:535:LYS:HE3	2.39	0.58
7:G:228:LYS:HD3	7:G:282:TYR:CG	2.38	0.58
8:H:270:PRO:HG3	8:H:458:TYR:CG	2.39	0.58
8:H:311:SER:O	8:H:315:CYS:N	2.37	0.58
8:H:342:LEU:HB3	8:H:353:TRP:CZ2	2.39	0.58
8:H:433:LYS:HG3	8:H:458:TYR:CD2	2.38	0.58
8:H:490:ILE:HG12	8:H:514:ILE:HG12	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:522:ILE:CG2	8:H:538:VAL:HG22	2.31	0.58
10:J:302:LEU:HB2	11:K:366:VAL:CG2	2.27	0.58
12:L:49:PHE:CZ	12:L:53:LEU:HD11	2.38	0.58
12:L:732:LYS:CE	12:L:836:VAL:HA	2.29	0.58
13:P:262:ASN:HB2	14:R:158:GLN:HA	1.86	0.58
15:S:157:MET:HG2	15:s:157:MET:SD	2.44	0.58
1:A:145:ARG:HG2	2:B:141:ARG:HH12	1.67	0.58
2:B:43:ALA:O	2:B:47:ARG:NH1	2.37	0.58
2:B:51:LYS:HA	4:D:47:LEU:HD12	1.84	0.58
2:B:232:GLU:OE1	2:B:232:GLU:N	2.36	0.58
3:C:518:SER:HA	3:C:521:MET:SD	2.44	0.58
7:G:117:MET:CG	7:G:147:ASP:HB2	2.33	0.58
7:G:160:ALA:CB	7:G:164:CYS:HB3	2.27	0.58
7:G:209:LYS:HZ3	7:G:237:ASP:CB	2.17	0.58
7:G:281:LEU:HB2	7:G:309:TYR:CE2	2.39	0.58
8:H:191:LYS:HD3	8:H:281:GLN:HA	1.86	0.58
8:H:270:PRO:HG3	8:H:458:TYR:CD1	2.37	0.58
8:H:332:ASN:HD21	8:H:342:LEU:HD13	1.68	0.58
8:H:414:ASP:HB3	8:H:417:LYS:HD2	1.85	0.58
8:H:441:PRO:HG3	8:H:449:VAL:CG2	2.34	0.58
8:H:468:TYR:O	8:H:479:ILE:HG23	2.04	0.58
10:J:304:GLU:HA	10:J:307:GLU:OE1	2.03	0.58
12:L:30:GLN:HA	12:L:33:GLN:NE2	2.18	0.58
12:L:443:MET:SD	12:L:446:LYS:NZ	2.62	0.58
13:P:120:ILE:HD13	13:P:204:PHE:CE2	2.39	0.58
2:B:44:LYS:NZ	4:D:34:GLU:OE1	2.33	0.58
3:C:391:LEU:HD13	3:C:564:LEU:CD2	2.33	0.58
3:C:501:ILE:HD13	3:C:504:ILE:CD1	2.34	0.58
4:D:204:ASN:O	4:D:208:GLU:OE1	2.21	0.58
4:D:267:LEU:HD11	5:E:252:ILE:CG2	2.30	0.58
6:F:240:SER:HB3	6:F:266:ASN:CG	2.29	0.58
7:G:76:THR:OG1	7:G:104:TYR:HB2	2.03	0.58
7:G:144:LEU:HD23	7:G:172:LEU:HD13	1.86	0.58
7:G:185:LYS:O	7:G:188:GLN:HB3	2.04	0.58
8:H:530:ASN:OD1	8:H:531:HIS:N	2.36	0.58
8:H:534:LEU:HD12	8:H:535:ILE:N	2.19	0.58
8:H:556:VAL:HG22	8:H:595:PHE:CD1	2.39	0.58
9:I:66:ILE:HD12	9:I:75:ILE:HD12	1.86	0.58
11:K:87:ASP:HB2	11:K:91:HIS:ND1	2.19	0.58
11:K:271:LYS:O	11:K:275:GLN:OE1	2.22	0.58
11:K:370:LYS:HB3	11:K:374:LYS:HE3	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:2:SER:O	12:L:5:MET:HG3	2.04	0.58
12:L:75:GLN:NE2	12:L:440:LEU:HD22	2.19	0.58
12:L:154:ASP:CB	12:L:164:LYS:HE3	2.32	0.58
12:L:598:LYS:HG2	12:L:711:GLU:O	2.03	0.58
14:R:126:THR:O	14:R:130:LYS:HD3	2.04	0.58
15:S:39:GLU:HG2	15:s:40:GLN:HG3	1.86	0.58
1:A:78:TRP:HB3	1:A:82:LYS:NZ	2.18	0.58
1:A:137:ILE:O	1:A:141:ILE:HG12	2.03	0.58
1:A:141:ILE:HA	1:A:144:MET:SD	2.44	0.58
1:A:153:ASP:HA	5:E:127:TYR:HE1	1.69	0.58
1:A:160:GLU:O	1:A:163:GLU:HG2	2.04	0.58
1:A:164:ARG:HA	1:A:167:GLU:OE1	2.04	0.58
1:A:247:GLN:O	1:A:250:THR:HG22	2.04	0.58
2:B:60:VAL:O	9:i:179:ASN:HB3	2.03	0.58
2:B:149:PHE:O	2:B:153:VAL:HG23	2.03	0.58
2:B:257:HIS:CE1	2:B:261:ARG:HD2	2.38	0.58
3:C:147:HIS:O	3:C:150:THR:HG23	2.02	0.58
3:C:465:GLU:CD	3:C:494:LYS:HG2	2.29	0.58
6:F:156:ASP:OD1	6:F:157:PHE:N	2.37	0.58
7:G:317:ILE:HG13	7:G:322:ILE:CG1	2.33	0.58
8:H:488:LYS:HG3	8:H:516:ILE:HG12	1.85	0.58
8:H:623:TYR:HB2	8:H:633:ILE:HG21	1.85	0.58
11:K:112:SER:HB3	11:K:155:ASN:HD21	1.69	0.58
12:L:321:LEU:HG	12:L:457:VAL:CG2	2.34	0.58
12:L:435:LYS:HG3	12:L:436:HIS:H	1.68	0.58
12:L:506:PRO:HG3	12:L:659:LYS:NZ	2.18	0.58
12:L:674:PHE:HE1	12:L:695:MET:HE1	1.66	0.58
13:P:318:TYR:H	14:R:163:LEU:HD21	1.68	0.58
1:A:8:LYS:HE2	1:A:166:PHE:HA	1.84	0.58
1:A:31:ILE:HG23	1:A:32:ASN:OD1	2.04	0.58
1:A:185:PHE:HZ	4:D:173:LYS:HD2	1.69	0.58
1:A:193:GLU:O	1:A:196:VAL:HG22	2.04	0.58
5:E:106:GLN:NE2	5:E:110:ASN:OD1	2.37	0.58
6:F:86:TRP:HA	6:F:89:SER:HB3	1.86	0.58
7:G:104:TYR:O	7:G:107:LYS:HG3	2.04	0.58
8:H:201:GLU:OE2	8:H:431:TYR:HA	2.03	0.58
8:H:288:LEU:HD22	8:H:301:PHE:CE1	2.38	0.58
8:H:630:ILE:O	8:H:630:ILE:HG22	2.03	0.58
9:I:49:LEU:HB3	9:I:88:LEU:CD2	2.34	0.58
9:I:75:ILE:HD13	9:I:80:PHE:HD1	1.69	0.58
10:J:175:GLN:O	10:J:179:GLU:OE1	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:235:GLU:OE2	11:K:239:LYS:HE3	2.04	0.58
12:L:336:LEU:CD1	12:L:341:PHE:HA	2.34	0.58
13:P:142:ILE:HB	13:P:364:TYR:CE1	2.39	0.58
13:P:281:ARG:HG2	13:P:294:GLY:CA	2.21	0.58
13:P:301:GLU:OE1	13:P:339:LYS:NZ	2.29	0.58
14:R:129:PHE:O	14:R:132:VAL:HG12	2.04	0.58
9:i:18:LEU:HD22	9:i:88:LEU:CD1	2.28	0.58
2:B:51:LYS:C	2:B:53:ARG:H	2.10	0.57
6:F:114:PHE:CZ	6:F:118:ILE:HD12	2.39	0.57
6:F:129:ILE:O	6:F:133:GLU:HG3	2.04	0.57
6:F:190:LEU:HA	6:F:220:LEU:HD21	1.84	0.57
6:F:285:LYS:HE3	6:F:314:LEU:HD12	1.86	0.57
8:H:199:ARG:HG3	8:H:306:THR:HG22	1.85	0.57
9:I:28:LEU:HD22	12:L:205:LYS:HG3	1.85	0.57
9:I:68:GLU:HG2	9:I:79:LYS:HE3	1.86	0.57
10:J:112:VAL:HG22	11:K:202:LEU:HD12	1.86	0.57
12:L:153:LEU:HD11	12:L:631:ILE:HD11	1.86	0.57
13:P:154:SER:O	13:P:158:VAL:HG23	2.04	0.57
15:S:64:PHE:HB3	15:s:64:PHE:CD1	2.38	0.57
9:i:54:SER:O	9:i:58:VAL:HG23	2.03	0.57
15:s:167:ASP:OD1	15:s:168:SER:N	2.36	0.57
1:A:228:MET:HE1	2:B:222:LEU:HB3	1.84	0.57
2:B:58:GLN:N	5:E:36:LYS:N	2.51	0.57
2:B:61:VAL:O	2:B:61:VAL:CG1	2.52	0.57
3:C:131:THR:HB	5:E:202:LYS:HZ1	1.67	0.57
3:C:196:VAL:HB	3:C:199:ASN:ND2	2.18	0.57
4:D:53:GLU:HG3	12:L:772:THR:HG22	1.87	0.57
6:F:198:GLU:HA	6:F:201:LYS:CD	2.33	0.57
6:F:256:LEU:CB	6:F:283:ALA:HB1	2.29	0.57
7:G:318:PRO:CB	7:G:321:LEU:HG	2.29	0.57
10:J:112:VAL:HG22	11:K:202:LEU:CD1	2.34	0.57
11:K:351:LYS:HA	11:K:354:GLU:OE1	2.04	0.57
12:L:50:TRP:HB3	12:L:98:VAL:CG2	2.33	0.57
12:L:117:ASP:OD1	12:L:118:GLU:N	2.38	0.57
13:P:175:ASN:O	13:P:358:ARG:HD2	2.04	0.57
15:S:165:GLN:NE2	15:S:175:MET:HA	2.18	0.57
9:i:58:VAL:HG22	9:i:62:ILE:CD1	2.35	0.57
1:A:32:ASN:HB2	6:F:381:ARG:CZ	2.35	0.57
2:B:44:LYS:HE3	4:D:41:ARG:NH1	2.19	0.57
2:B:63:PHE:CZ	9:i:181:PHE:HB2	2.39	0.57
4:D:189:ARG:HD2	8:H:497:LYS:HA	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:233:TYR:CZ	5:E:237:ILE:HD11	2.40	0.57
6:F:52:ARG:HG2	6:F:52:ARG:HH11	1.69	0.57
6:F:300:LEU:HB3	6:F:304:ALA:CB	2.35	0.57
7:G:25:TYR:HE2	7:G:44:LEU:HD21	1.69	0.57
8:H:84:PHE:CZ	8:H:331:ILE:HG21	2.39	0.57
8:H:301:PHE:HB2	8:H:310:TYR:O	2.03	0.57
8:H:470:TYR:HB2	8:H:477:LEU:O	2.03	0.57
9:I:47:ARG:CD	12:L:194:GLY:HA2	2.34	0.57
10:J:215:GLU:O	10:J:219:GLU:OE1	2.23	0.57
12:L:24:GLU:C	12:L:27:PRO:HD2	2.29	0.57
12:L:140:GLU:CA	12:L:143:LYS:HD2	2.29	0.57
12:L:328:ARG:HD2	12:L:461:ILE:HG13	1.85	0.57
12:L:549:LEU:HD22	12:L:571:LYS:HZ3	1.69	0.57
12:L:677:ILE:HG21	12:L:695:MET:SD	2.44	0.57
13:P:293:LYS:HZ2	14:R:178:PHE:HB3	1.69	0.57
13:P:363:ILE:HG21	13:P:367:PRO:CD	2.34	0.57
15:S:61:ASP:HA	15:S:64:PHE:CD2	2.39	0.57
9:i:16:GLU:HB3	9:i:181:PHE:CD2	2.40	0.57
2:B:53:ARG:HG2	5:E:35:LEU:O	2.03	0.57
3:C:35:ILE:HD11	3:C:74:ILE:CD1	2.26	0.57
3:C:432:TRP:O	3:C:436:GLU:HG3	2.04	0.57
6:F:190:LEU:HA	6:F:220:LEU:CD2	2.34	0.57
6:F:237:LEU:HD21	6:F:239:LEU:HD11	1.86	0.57
6:F:280:LEU:HD13	6:F:295:LEU:HD21	1.87	0.57
7:G:144:LEU:HB3	7:G:169:LEU:CD2	2.35	0.57
9:I:143:PHE:HD2	12:L:195:ARG:HH12	1.52	0.57
9:I:145:THR:CG2	9:I:154:ILE:HG12	2.33	0.57
9:I:158:ASP:OD2	12:L:796:ARG:NH1	2.37	0.57
10:J:149:GLN:HG3	11:K:197:ILE:CG2	2.34	0.57
11:K:359:LEU:O	11:K:359:LEU:HD23	2.04	0.57
12:L:291:LYS:CA	12:L:294:GLN:OE1	2.46	0.57
12:L:608:PHE:HA	12:L:718:GLY:O	2.04	0.57
13:P:322:ARG:H	14:R:168:ASN:CA	2.15	0.57
14:Q:25:GLU:HB2	14:Q:28:GLU:HG3	1.86	0.57
14:R:93:PHE:HE2	14:R:111:ILE:HD11	1.69	0.57
14:R:154:ILE:HD11	14:R:158:GLN:CG	2.33	0.57
1:A:238:CYS:HA	1:A:241:ASP:OD2	2.05	0.57
2:B:187:GLU:O	2:B:191:LYS:HD3	2.04	0.57
2:B:192:LYS:HA	2:B:195:GLU:HG2	1.86	0.57
3:C:217:ILE:O	3:C:233:ARG:NH1	2.36	0.57
3:C:302:LYS:HZ2	3:C:305:GLN:N	2.02	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:426:LYS:O	3:C:429:GLU:HG2	2.04	0.57
6:F:34:VAL:HG12	6:F:41:TYR:HD2	1.69	0.57
6:F:67:THR:C	6:F:70:PRO:HD2	2.28	0.57
6:F:182:ASN:O	6:F:185:SER:OG	2.07	0.57
7:G:203:MET:SD	7:G:208:LEU:HD11	2.44	0.57
7:G:228:LYS:HA	7:G:282:TYR:HB3	1.85	0.57
8:H:524:LYS:HG2	8:H:536:GLU:OE2	2.03	0.57
8:H:814:LYS:HD3	8:H:817:ILE:CD1	2.33	0.57
9:I:2:TYR:CE2	9:I:89:LYS:HG2	2.40	0.57
9:I:48:TYR:CE1	12:L:198:ILE:HG23	2.38	0.57
9:I:97:ASP:OD1	9:I:98:PRO:HD2	2.04	0.57
11:K:116:ILE:CG2	11:K:152:LEU:HB2	2.35	0.57
11:K:324:LYS:CG	11:K:327:LYS:HE3	2.34	0.57
13:P:285:VAL:HG21	13:P:324:ALA:N	2.19	0.57
14:Q:93:PHE:HB3	14:Q:103:ILE:CG2	2.34	0.57
1:A:236:GLU:H	1:A:239:PHE:HE1	1.53	0.57
2:B:54:ILE:N	5:E:36:LYS:HG3	2.20	0.57
2:B:56:ASP:H	5:E:36:LYS:C	2.13	0.57
2:B:63:PHE:CA	9:i:177:GLY:HA2	2.35	0.57
2:B:71:TYR:HA	2:B:74:LYS:HE3	1.86	0.57
2:B:72:TRP:HA	2:B:75:ILE:CG2	2.35	0.57
3:C:420:PHE:CD2	3:C:535:LYS:HE3	2.40	0.57
6:F:353:ALA:HB2	6:F:379:ASP:OD2	2.05	0.57
7:G:296:LYS:HB2	7:G:321:LEU:HD11	1.85	0.57
8:H:456:GLN:CD	8:H:464:LYS:HE3	2.29	0.57
10:J:152:LEU:HB2	11:K:212:HIS:NE2	2.20	0.57
10:J:176:GLU:OE1	11:K:241:LYS:HE2	2.04	0.57
10:J:356:ASP:OD1	14:Q:38:PHE:CD1	2.58	0.57
12:L:17:LEU:HD23	12:L:416:ILE:HD11	1.86	0.57
12:L:18:MET:O	12:L:21:VAL:HG12	2.05	0.57
12:L:728:GLN:O	12:L:732:LYS:HG3	2.04	0.57
12:L:749:ARG:CD	12:L:774:ALA:HA	2.34	0.57
13:P:153:TYR:CE2	13:P:157:LEU:HD11	2.39	0.57
13:P:175:ASN:HB2	13:P:358:ARG:HD2	1.85	0.57
14:R:37:ASP:O	14:R:117:ARG:NH2	2.38	0.57
1:A:108:LYS:HB3	1:A:112:ARG:NH2	2.19	0.57
2:B:71:TYR:CD1	2:B:74:LYS:HD2	2.40	0.57
3:C:125:ASP:C	3:C:148:ASN:HD22	2.12	0.57
6:F:150:ASN:CG	6:F:174:THR:HA	2.30	0.57
6:F:319:LEU:C	6:F:348:LYS:H	2.13	0.57
7:G:170:GLU:HA	7:G:198:LEU:HD12	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:197:ASN:H	14:Q:26:ILE:N	2.02	0.57
8:H:47:LEU:HD11	8:H:151:LEU:HD22	1.86	0.57
8:H:57:GLU:HG3	8:H:57:GLU:O	2.04	0.57
8:H:69:LYS:HE2	8:H:404:PRO:HG3	1.85	0.57
8:H:238:ILE:HG22	8:H:239:ALA:N	2.20	0.57
8:H:379:ASP:CB	8:H:381:LEU:HD22	2.32	0.57
8:H:442:TYR:OH	8:H:702:GLU:O	2.19	0.57
8:H:843:ASP:OD1	8:H:844:ALA:N	2.38	0.57
10:J:98:LEU:HD21	11:K:52:PRO:HB2	1.87	0.57
10:J:355:LYS:CB	14:Q:38:PHE:CE1	2.88	0.57
11:K:150:MET:SD	11:K:151:GLN:HG2	2.45	0.57
12:L:79:LEU:HD22	12:L:423:TRP:CZ3	2.39	0.57
12:L:437:GLU:CG	12:L:439:GLU:HG2	2.31	0.57
12:L:635:ILE:HG13	12:L:671:CYS:SG	2.44	0.57
14:R:111:ILE:HG12	14:R:114:LYS:HZ1	1.69	0.57
14:R:182:ILE:HG12	14:R:190:ILE:CD1	2.32	0.57
15:s:54:ARG:O	15:s:57:LEU:HB2	2.04	0.57
2:B:65:LYS:O	2:B:69:ILE:HG13	2.04	0.57
2:B:119:GLN:HG2	4:D:112:LYS:NZ	2.19	0.57
3:C:313:TYR:HB2	3:C:453:PHE:CE1	2.39	0.57
3:C:426:LYS:HE3	8:H:230:GLU:HB2	1.87	0.57
6:F:253:ALA:CB	6:F:279:TYR:HB3	2.33	0.57
6:F:275:GLU:HG3	6:F:279:TYR:CE2	2.40	0.57
7:G:296:LYS:HB2	7:G:321:LEU:CD1	2.33	0.57
7:G:317:ILE:HD11	7:G:322:ILE:HG12	1.86	0.57
8:H:141:GLU:HG3	8:H:164:LYS:HB3	1.86	0.57
8:H:301:PHE:CE2	8:H:339:VAL:HG11	2.39	0.57
8:H:534:LEU:HA	8:H:548:PHE:O	2.05	0.57
10:J:108:ASP:O	10:J:112:VAL:HG23	2.05	0.57
10:J:220:GLU:CD	11:K:283:ARG:HH11	2.13	0.57
10:J:302:LEU:CB	11:K:366:VAL:HG22	2.30	0.57
10:J:356:ASP:OD1	14:Q:38:PHE:O	2.23	0.57
11:K:53:THR:HG22	11:K:57:ALA:HB3	1.86	0.57
12:L:826:PHE:O	12:L:830:LYS:HG3	2.04	0.57
13:P:314:GLU:OE2	14:R:156:VAL:HG22	2.05	0.57
13:P:318:TYR:H	14:R:163:LEU:HD23	1.68	0.57
14:Q:154:ILE:HG12	14:Q:158:GLN:OE1	2.04	0.57
1:A:271:CYS:O	1:A:275:LYS:HG2	2.05	0.57
2:B:65:LYS:HZ3	9:i:176:LYS:HD3	1.69	0.57
2:B:144:GLY:O	2:B:148:GLU:HG2	2.04	0.57
2:B:216:ASN:O	2:B:220:ILE:HD12	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:39:LEU:HD13	7:G:59:LEU:HA	1.87	0.57
7:G:144:LEU:O	7:G:172:LEU:HA	2.05	0.57
8:H:289:LEU:HD21	8:H:296:VAL:HG22	1.86	0.57
8:H:544:LYS:HE2	8:H:560:SER:OG	2.04	0.57
9:I:3:ASP:HB3	9:I:6:THR:HG23	1.85	0.57
12:L:60:ILE:CG2	12:L:64:LEU:HD11	2.31	0.57
12:L:537:LEU:HB3	12:L:540:ILE:CD1	2.32	0.57
12:L:809:SER:HA	12:L:812:ILE:HG13	1.86	0.57
13:P:219:ARG:HE	13:P:220:ILE:HG13	1.69	0.57
13:P:278:TYR:HD2	13:P:336:ILE:HG12	1.70	0.57
13:P:333:PRO:HB3	13:P:338:TYR:OH	2.05	0.57
14:Q:154:ILE:H	14:Q:189:ARG:HE	1.51	0.57
14:Q:164:MET:O	14:Q:169:ARG:HA	2.04	0.57
14:R:42:PHE:CE2	14:R:116:ILE:HD12	2.39	0.57
15:S:158:GLN:HE22	15:S:184:LEU:HD13	1.70	0.57
9:i:51:GLN:OE1	9:i:93:TYR:HB2	2.04	0.57
1:A:13:ILE:O	1:A:17:ARG:HG3	2.05	0.57
1:A:33:ASN:OD1	6:F:381:ARG:HB3	2.05	0.57
1:A:141:ILE:HA	1:A:144:MET:HG2	1.87	0.57
2:B:156:LEU:HD12	2:B:159:GLU:OE2	2.04	0.57
3:C:75:LEU:HA	3:C:95:ILE:HG13	1.87	0.57
6:F:39:ILE:O	6:F:42:PRO:HD3	2.04	0.57
6:F:334:LEU:HD23	6:F:364:ASN:HB3	1.87	0.57
7:G:40:PHE:CE1	7:G:71:ILE:HG21	2.39	0.57
7:G:76:THR:HA	7:G:104:TYR:HD1	1.70	0.57
7:G:196:THR:HA	14:Q:24:LYS:C	2.30	0.57
8:H:765:LEU:HD21	8:H:833:TYR:HA	1.86	0.57
9:I:49:LEU:O	9:I:88:LEU:HD22	2.05	0.57
10:J:194:LEU:HB3	11:K:258:LEU:HB3	1.87	0.57
10:J:270:SER:OG	11:K:334:LEU:HD13	2.04	0.57
12:L:89:VAL:HG13	12:L:601:LEU:HD21	1.87	0.57
12:L:105:TYR:CE1	12:L:543:ILE:HA	2.40	0.57
12:L:113:TYR:HE1	12:L:580:ILE:HA	1.70	0.57
12:L:158:LEU:HD23	12:L:164:LYS:HZ3	1.69	0.57
12:L:305:ILE:HG23	12:L:445:ILE:HG12	1.87	0.57
13:P:376:GLU:OE2	13:P:380:LYS:HE3	2.05	0.57
14:Q:190:ILE:CG2	14:Q:191:ASN:H	2.18	0.57
2:B:54:ILE:O	2:B:54:ILE:HG22	2.05	0.56
2:B:171:HIS:O	2:B:175:LEU:HD23	2.04	0.56
4:D:3:LYS:HB3	4:D:4:ALA:HB2	1.85	0.56
6:F:96:GLU:N	6:F:96:GLU:OE1	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:57:ILE:N	7:G:85:SER:O	2.35	0.56
8:H:102:ASN:ND2	8:H:108:LYS:HE3	2.19	0.56
8:H:303:GLU:HG3	8:H:310:TYR:CE2	2.40	0.56
11:K:75:ILE:HD11	11:K:188:VAL:CG2	2.34	0.56
11:K:76:TYR:CB	11:K:173:ILE:HG22	2.35	0.56
12:L:60:ILE:O	12:L:64:LEU:HG	2.05	0.56
12:L:328:ARG:NH2	12:L:458:ASP:OD1	2.31	0.56
12:L:525:ALA:H	12:L:626:HIS:CB	2.18	0.56
12:L:527:LEU:HG	12:L:581:ARG:HH11	1.70	0.56
12:L:722:ARG:HH11	12:L:829:PHE:HZ	1.52	0.56
13:P:188:LYS:HA	13:P:239:GLN:HB3	1.86	0.56
14:Q:105:GLU:HG3	14:Q:109:PHE:CE1	2.40	0.56
1:A:49:ASP:HA	1:A:53:ARG:CB	2.29	0.56
2:B:61:VAL:HG23	5:E:37:GLU:HB3	1.87	0.56
2:B:119:GLN:HG2	4:D:112:LYS:HZ2	1.70	0.56
2:B:182:ILE:HG23	2:B:186:LYS:NZ	2.21	0.56
3:C:77:ILE:HD11	3:C:80:LEU:HD11	1.86	0.56
6:F:300:LEU:HD12	6:F:328:PHE:CZ	2.40	0.56
6:F:322:ASP:CA	6:F:351:ASN:HB2	2.16	0.56
6:F:425:LYS:HG3	6:F:425:LYS:O	2.04	0.56
7:G:144:LEU:N	7:G:169:LEU:HD21	2.20	0.56
8:H:47:LEU:HD21	8:H:151:LEU:CB	2.35	0.56
8:H:118:LYS:NZ	8:H:181:VAL:HA	2.20	0.56
8:H:490:ILE:HG12	8:H:514:ILE:HG23	1.86	0.56
8:H:510:TRP:CH2	8:H:694:ILE:HD12	2.40	0.56
8:H:616:LYS:HZ3	8:H:618:LYS:HB2	1.70	0.56
8:H:836:MET:O	8:H:840:LEU:HG	2.05	0.56
9:I:91:ARG:HG2	9:I:94:GLU:HB2	1.86	0.56
12:L:113:TYR:OH	12:L:583:ILE:HG21	2.05	0.56
12:L:324:MET:SD	12:L:453:ILE:HG22	2.45	0.56
12:L:618:THR:O	12:L:622:ARG:HG3	2.05	0.56
15:S:115:GLN:O	15:S:119:LYS:HG3	2.05	0.56
1:A:105:ILE:CD1	2:B:99:LEU:HD13	2.34	0.56
1:A:141:ILE:HD13	1:A:144:MET:SD	2.45	0.56
1:A:147:GLN:CG	1:A:151:ILE:HD11	2.34	0.56
2:B:46:LYS:HB3	5:E:20:TYR:O	2.04	0.56
2:B:60:VAL:HG13	9:i:179:ASN:HB3	1.88	0.56
2:B:82:GLU:OE1	2:B:85:LYS:HD2	2.05	0.56
3:C:64:LEU:N	3:C:85:ARG:HH21	2.00	0.56
3:C:331:LYS:O	3:C:335:ILE:HG13	2.03	0.56
4:D:110:LYS:HD2	6:F:179:MET:HE1	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:40:PHE:HE2	7:G:63:LEU:HD13	1.70	0.56
7:G:78:ILE:O	7:G:107:LYS:NZ	2.38	0.56
7:G:222:VAL:HG12	14:Q:97:SER:CB	2.36	0.56
7:G:299:ILE:HD11	7:G:325:LYS:HB2	1.88	0.56
8:H:199:ARG:CG	8:H:306:THR:HG22	2.35	0.56
8:H:288:LEU:HD12	8:H:289:LEU:N	2.21	0.56
8:H:526:TYR:CD2	8:H:529:ARG:HD2	2.41	0.56
8:H:578:PHE:HE1	8:H:681:LYS:HA	1.70	0.56
8:H:609:LYS:O	8:H:621:VAL:HG13	2.05	0.56
9:I:49:LEU:CB	9:I:88:LEU:HD21	2.35	0.56
10:J:119:PHE:CE2	10:J:123:ILE:HD11	2.39	0.56
10:J:126:LEU:HD13	10:J:138:PHE:CD1	2.40	0.56
11:K:413:HIS:O	14:R:56:LEU:HG	2.04	0.56
12:L:64:LEU:CD1	12:L:83:MET:HE1	2.24	0.56
12:L:130:LEU:HB2	12:L:534:GLN:NE2	2.20	0.56
12:L:156:LEU:CD1	12:L:510:LEU:HG	2.35	0.56
12:L:166:PRO:HB2	12:L:523:ILE:HG12	1.86	0.56
12:L:460:MET:HA	12:L:463:GLU:OE1	2.06	0.56
12:L:792:VAL:CG2	12:L:814:PRO:HG2	2.31	0.56
12:L:857:LYS:O	12:L:857:LYS:HG2	2.05	0.56
13:P:145:THR:OG1	13:P:359:THR:HA	2.05	0.56
13:P:284:ASN:OD1	13:P:292:ILE:HD11	2.05	0.56
13:P:361:PHE:HB2	14:R:171:SER:CB	2.36	0.56
13:P:399:ASP:HA	13:P:402:ARG:CG	2.35	0.56
14:Q:35:TYR:OH	14:Q:106:ASP:HB3	2.04	0.56
15:s:67:GLU:OE2	15:s:70:ARG:NH2	2.26	0.56
15:s:146:PHE:CE1	15:s:150:LEU:HD11	2.41	0.56
1:A:246:TYR:HD2	2:B:240:PHE:HB2	1.71	0.56
2:B:132:GLU:O	2:B:136:GLN:HG3	2.05	0.56
3:C:60:ILE:HG21	3:C:63:GLN:HG3	1.87	0.56
3:C:114:SER:HB3	3:C:136:PHE:O	2.04	0.56
3:C:285:LEU:HA	3:C:288:GLU:HG2	1.87	0.56
3:C:286:LYS:HE2	3:C:314:CYS:HB2	1.88	0.56
6:F:269:ASN:HA	6:F:297:LEU:HB3	1.87	0.56
6:F:295:LEU:O	6:F:326:ASN:ND2	2.38	0.56
7:G:143:LYS:NZ	7:G:171:LYS:HD2	2.19	0.56
8:H:483:TYR:HE2	8:H:490:ILE:HD12	1.70	0.56
8:H:590:LYS:HG2	8:H:591:MET:N	2.20	0.56
12:L:73:HIS:HB3	12:L:76:LYS:HB2	1.86	0.56
12:L:158:LEU:HB3	12:L:164:LYS:HZ2	1.70	0.56
12:L:633:LEU:HD12	12:L:669:ILE:CD1	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:P:291:ASP:O	14:R:202:ARG:NH1	2.37	0.56
13:P:303:THR:O	13:P:307:GLN:N	2.38	0.56
13:P:328:TYR:CD1	13:P:355:LEU:HD13	2.41	0.56
14:Q:128:ALA:O	14:Q:132:VAL:HG23	2.06	0.56
14:R:63:LYS:O	14:R:104:ASN:HA	2.04	0.56
1:A:5:GLN:HE22	1:A:173:LEU:H	1.53	0.56
1:A:147:GLN:HG3	1:A:151:ILE:CD1	2.32	0.56
2:B:107:GLN:O	2:B:111:LYS:N	2.38	0.56
3:C:548:GLN:HE22	8:H:629:GLU:HA	1.68	0.56
6:F:67:THR:O	6:F:70:PRO:HD2	2.05	0.56
6:F:206:LEU:HD21	6:F:209:LEU:HG	1.86	0.56
7:G:182:GLU:HG2	10:J:363:LYS:CG	2.28	0.56
7:G:214:HIS:CE1	7:G:269:ASN:HD22	2.23	0.56
8:H:242:LYS:HA	8:H:245:GLN:OE1	2.05	0.56
8:H:255:GLU:O	8:H:259:ARG:HG2	2.05	0.56
8:H:301:PHE:CB	8:H:317:TYR:HE2	2.18	0.56
8:H:544:LYS:HG3	8:H:561:ILE:C	2.30	0.56
8:H:623:TYR:HB2	8:H:633:ILE:HB	1.87	0.56
9:I:52:PHE:N	9:I:93:TYR:O	2.30	0.56
10:J:65:LEU:HB3	10:J:74:LEU:HD11	1.88	0.56
10:J:126:LEU:HD13	10:J:138:PHE:CE1	2.40	0.56
11:K:225:GLU:O	11:K:229:LYS:HG3	2.04	0.56
11:K:414:PHE:CD1	14:R:55:ALA:HB1	2.40	0.56
12:L:261:LEU:CB	12:L:266:MET:HB2	2.35	0.56
13:P:182:LEU:HD12	13:P:183:CYS:H	1.71	0.56
13:P:188:LYS:HG2	13:P:239:GLN:HB3	1.87	0.56
13:P:295:VAL:HB	14:R:176:ASN:HB3	1.86	0.56
9:i:148:ASP:OD2	9:i:151:ALA:HB2	2.06	0.56
2:B:58:GLN:CB	5:E:35:LEU:O	2.49	0.56
3:C:212:HIS:HD1	3:C:246:TYR:HE1	1.49	0.56
3:C:439:ILE:HD13	3:C:520:GLN:CG	2.36	0.56
6:F:188:MET:CG	6:F:214:ASN:HB3	2.35	0.56
6:F:211:ILE:HD11	6:F:239:LEU:CD2	2.34	0.56
6:F:449:GLU:N	6:F:450:PRO:HD2	2.21	0.56
7:G:195:ASN:CB	14:Q:27:ILE:HB	2.28	0.56
8:H:454:ILE:HD11	8:H:467:ARG:CZ	2.35	0.56
8:H:454:ILE:CD1	8:H:465:GLU:HB3	2.29	0.56
9:I:98:PRO:HG3	9:I:164:GLN:NE2	2.21	0.56
12:L:611:GLY:O	12:L:721:ASN:HA	2.05	0.56
13:P:177:LEU:HB2	13:P:358:ARG:H	1.71	0.56
13:P:312:SER:HA	14:R:160:LYS:NZ	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:R:139:GLU:O	14:R:142:LYS:HB3	2.06	0.56
15:S:103:LYS:HE2	15:s:103:LYS:C	2.30	0.56
15:S:165:GLN:HE21	15:S:178:LEU:HD12	1.70	0.56
9:i:22:ILE:HG12	9:i:84:MET:SD	2.45	0.56
15:s:29:VAL:O	15:s:33:ILE:HG13	2.06	0.56
3:C:172:PHE:CE1	3:C:188:PHE:HB3	2.41	0.56
3:C:239:ASP:CB	3:C:242:ILE:HD12	2.35	0.56
6:F:5:LYS:HD3	6:F:18:PHE:HZ	1.70	0.56
8:H:78:ILE:O	8:H:82:ARG:HG2	2.06	0.56
8:H:191:LYS:N	8:H:319:CYS:SG	2.78	0.56
8:H:357:MET:CE	8:H:401:LEU:HB2	2.35	0.56
8:H:473:ARG:CZ	8:H:477:LEU:HB3	2.36	0.56
8:H:591:MET:HE2	8:H:610:MET:SD	2.45	0.56
12:L:143:LYS:HG2	12:L:147:ASP:OD2	2.06	0.56
12:L:290:MET:HA	12:L:293:ILE:HD12	1.88	0.56
12:L:376:LYS:O	12:L:380:LYS:NZ	2.33	0.56
13:P:251:LEU:HD12	13:P:251:LEU:O	2.06	0.56
13:P:295:VAL:HG13	14:R:180:LYS:CE	2.36	0.56
14:Q:25:GLU:O	14:Q:28:GLU:N	2.34	0.56
14:Q:155:ARG:O	14:Q:158:GLN:HB3	2.06	0.56
14:R:32:HIS:O	14:R:36:GLN:HG2	2.05	0.56
14:R:74:LEU:O	14:R:77:VAL:HG22	2.06	0.56
1:A:248:LEU:O	1:A:251:GLU:HG3	2.05	0.56
3:C:83:LEU:HA	3:C:85:ARG:NH1	2.21	0.56
5:E:32:LEU:O	5:E:36:LYS:HB2	2.06	0.56
6:F:20:LYS:HA	6:F:23:PHE:CE2	2.41	0.56
6:F:31:VAL:O	6:F:34:VAL:HG22	2.06	0.56
6:F:293:LEU:N	6:F:318:LEU:HD11	2.21	0.56
7:G:326:LYS:NZ	12:L:471:ARG:HE	2.04	0.56
8:H:146:PRO:HD2	8:H:278:TYR:CG	2.40	0.56
8:H:504:PRO:HD2	8:H:507:LEU:HD13	1.86	0.56
10:J:259:LEU:HD23	11:K:327:LYS:HD3	1.87	0.56
12:L:250:ARG:O	12:L:254:GLN:OE1	2.24	0.56
12:L:514:VAL:O	12:L:517:ARG:NH1	2.39	0.56
12:L:538:GLY:O	12:L:573:PRO:HG3	2.06	0.56
14:Q:38:PHE:HD1	14:Q:42:PHE:CG	2.23	0.56
14:Q:128:ALA:CB	14:Q:166:LEU:HB3	2.32	0.56
14:Q:154:ILE:N	14:Q:189:ARG:HE	2.04	0.56
9:i:18:LEU:O	9:i:22:ILE:HG13	2.05	0.56
9:i:45:ILE:O	9:i:49:LEU:HG	2.05	0.56
9:i:76:LYS:HG3	9:i:78:SER:OG	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:s:13:ASP:O	15:s:17:LEU:HD13	2.05	0.56
15:s:58:PHE:CE1	15:s:62:LYS:HE2	2.40	0.56
1:A:30:ASP:HB3	6:F:400:PHE:CE2	2.40	0.56
1:A:116:GLU:O	1:A:120:LYS:HE2	2.06	0.56
1:A:243:LYS:HE3	2:B:236:MET:HG3	1.87	0.56
2:B:233:LEU:HD23	2:B:234:GLU:N	2.21	0.56
3:C:153:ASN:C	3:C:191:LEU:HD12	2.30	0.56
6:F:169:THR:C	6:F:170:LEU:HD22	2.31	0.56
6:F:184:GLN:HB3	6:F:189:LYS:NZ	2.21	0.56
8:H:463:VAL:HG11	8:H:466:TYR:CZ	2.41	0.56
8:H:558:TYR:CB	8:H:594:LYS:HB2	2.21	0.56
8:H:590:LYS:HB2	8:H:613:ASP:OD1	2.05	0.56
8:H:786:VAL:HG12	8:H:811:ILE:HD13	1.88	0.56
11:K:224:GLU:HG2	11:K:228:LYS:HE3	1.87	0.56
12:L:261:LEU:HD23	12:L:266:MET:CG	2.33	0.56
12:L:590:PHE:HB2	12:L:591:PRO:HD3	1.88	0.56
12:L:723:PRO:HD2	12:L:829:PHE:CE1	2.41	0.56
12:L:769:PRO:HB2	12:L:772:THR:CG2	2.36	0.56
12:L:786:LYS:HE3	12:L:787:MET:HG3	1.87	0.56
14:R:182:ILE:CD1	14:R:194:ASP:HB3	2.36	0.56
9:i:118:ILE:HG23	9:i:121:MET:HE2	1.88	0.56
15:s:94:ASN:O	15:s:98:LYS:HG3	2.06	0.56
1:A:75:GLU:HA	1:A:78:TRP:CE3	2.41	0.56
3:C:90:GLN:OE1	3:C:112:ASP:HB3	2.05	0.56
6:F:210:ASN:HA	6:F:238:ASN:HB3	1.88	0.56
7:G:164:CYS:O	7:G:190:ILE:HG12	2.06	0.56
7:G:170:GLU:CG	14:Q:21:LYS:HD3	2.32	0.56
7:G:203:MET:N	7:G:230:ASP:O	2.35	0.56
7:G:318:PRO:HG2	7:G:321:LEU:CD1	2.36	0.56
12:L:102:ASN:ND2	12:L:111:SER:HB3	2.18	0.56
12:L:531:LYS:HG2	12:L:755:THR:HG21	1.87	0.56
12:L:809:SER:HA	12:L:812:ILE:CD1	2.36	0.56
13:P:317:LEU:HA	14:R:162:LEU:O	2.06	0.56
13:P:363:ILE:HG22	13:P:365:PRO:O	2.06	0.56
15:S:107:ILE:HG12	15:S:110:LYS:HZ3	1.70	0.56
15:s:86:GLN:HA	15:s:89:LEU:HD12	1.87	0.56
2:B:71:TYR:O	2:B:74:LYS:HG2	2.06	0.55
3:C:298:VAL:HG11	3:C:501:ILE:CD1	2.35	0.55
6:F:65:ILE:HG23	6:F:66:LEU:HD22	1.88	0.55
6:F:103:LYS:NZ	6:F:107:LEU:HD21	2.22	0.55
7:G:204:LYS:HE2	7:G:233:ASP:HB2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:98:LEU:HB3	8:H:109:PHE:CE1	2.41	0.55
8:H:114:ILE:HG12	8:H:172:ILE:HG23	1.86	0.55
8:H:303:GLU:N	8:H:308:ARG:O	2.39	0.55
8:H:639:ARG:HD3	8:H:642:MET:HE2	1.86	0.55
9:I:82:PRO:O	9:I:86:LYS:HE2	2.04	0.55
10:J:55:TYR:HB2	10:J:84:VAL:CG1	2.35	0.55
10:J:222:THR:HA	10:J:225:ARG:NE	2.20	0.55
10:J:275:LYS:HA	10:J:278:GLU:OE1	2.06	0.55
11:K:33:LEU:HG	11:K:189:HIS:HD2	1.72	0.55
12:L:250:ARG:HG2	9:i:170:HIS:CG	2.40	0.55
12:L:284:GLN:HE22	12:L:287:ARG:NH1	2.02	0.55
12:L:522:LEU:CD1	12:L:632:VAL:HG11	2.37	0.55
12:L:750:MET:SD	12:L:751:LEU:N	2.79	0.55
13:P:143:ASP:OD2	13:P:146:THR:HG23	2.07	0.55
13:P:259:PRO:HD2	13:P:263:LYS:O	2.06	0.55
13:P:313:PHE:N	14:R:160:LYS:HE3	2.20	0.55
13:P:315:LEU:N	14:R:160:LYS:HA	2.21	0.55
13:P:323:MET:HE2	14:R:168:ASN:O	2.07	0.55
15:S:71:LEU:HD23	15:s:71:LEU:CD2	2.35	0.55
15:S:114:ILE:HG12	15:s:114:ILE:HG13	1.89	0.55
4:D:260:LEU:HD22	5:E:248:HIS:ND1	2.21	0.55
4:D:267:LEU:CD1	5:E:252:ILE:HG22	2.31	0.55
6:F:137:ALA:O	6:F:141:ILE:HG12	2.06	0.55
7:G:246:PRO:HB3	7:G:253:PHE:CE1	2.40	0.55
8:H:114:ILE:HD12	8:H:325:ASN:C	2.30	0.55
8:H:806:GLU:HG2	8:H:809:ARG:NE	2.20	0.55
12:L:332:ILE:O	12:L:336:LEU:HD23	2.05	0.55
12:L:668:ILE:HG12	12:L:717:ILE:HD11	1.88	0.55
12:L:709:GLU:HB3	12:L:712:ASP:CG	2.31	0.55
9:i:62:ILE:HG12	9:i:83:TYR:OH	2.05	0.55
1:A:141:ILE:O	1:A:144:MET:HG2	2.06	0.55
1:A:188:HIS:ND1	2:B:182:ILE:HG12	2.21	0.55
2:B:56:ASP:HB2	5:E:33:GLU:HA	1.88	0.55
2:B:145:LEU:HD23	2:B:148:GLU:OE2	2.06	0.55
3:C:281:ILE:HD11	3:C:522:GLU:CD	2.31	0.55
3:C:331:LYS:HE3	3:C:434:ASP:HB3	1.89	0.55
3:C:536:ASN:O	3:C:539:TYR:HB2	2.07	0.55
6:F:125:ASN:OD1	6:F:126:LYS:N	2.39	0.55
6:F:454:ILE:O	6:F:458:GLN:HG3	2.06	0.55
7:G:88:LEU:HB3	7:G:91:VAL:HG11	1.88	0.55
7:G:319:LYS:HD2	12:L:467:ILE:HD12	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:242:LYS:HG2	8:H:245:GLN:OE1	2.06	0.55
8:H:311:SER:O	8:H:315:CYS:HB3	2.06	0.55
8:H:448:LEU:HD21	8:H:451:LYS:HB2	1.88	0.55
8:H:814:LYS:HA	8:H:817:ILE:HG12	1.89	0.55
9:I:58:VAL:HG23	9:I:62:ILE:HB	1.87	0.55
10:J:231:GLN:NE2	11:K:294:LYS:HE2	2.18	0.55
11:K:31:LYS:CD	11:K:35:GLU:HB3	2.34	0.55
11:K:415:LEU:N	14:Q:145:ASN:HB2	2.21	0.55
12:L:760:LYS:HG3	12:L:762:VAL:HG23	1.88	0.55
12:L:762:VAL:HG13	12:L:763:PRO:HD2	1.87	0.55
12:L:806:ILE:O	12:L:807:LYS:HE2	2.06	0.55
12:L:823:LYS:HA	12:L:826:PHE:HD2	1.71	0.55
13:P:262:ASN:CA	14:R:161:GLU:HB3	2.30	0.55
13:P:285:VAL:HG21	13:P:324:ALA:H	1.70	0.55
15:S:125:LEU:HD23	15:s:128:LYS:NZ	2.20	0.55
9:i:17:PHE:CE1	9:i:178:TYR:HA	2.39	0.55
3:C:75:LEU:C	3:C:96:ILE:HD13	2.30	0.55
3:C:337:GLN:O	3:C:341:LYS:HG2	2.07	0.55
6:F:86:TRP:CE2	6:F:109:ARG:HD3	2.41	0.55
7:G:39:LEU:HD13	7:G:59:LEU:CD2	2.37	0.55
7:G:124:LEU:HG	7:G:128:PHE:CZ	2.41	0.55
7:G:179:ILE:HB	7:G:206:ASN:HB3	1.88	0.55
8:H:117:THR:HB	8:H:411:ILE:HB	1.89	0.55
8:H:141:GLU:HG2	8:H:165:GLY:H	1.72	0.55
8:H:238:ILE:HG22	8:H:239:ALA:H	1.70	0.55
8:H:357:MET:CE	8:H:401:LEU:H	2.19	0.55
8:H:616:LYS:HZ1	8:H:620:ILE:HG13	1.71	0.55
8:H:622:TYR:CE2	8:H:634:VAL:HG22	2.41	0.55
9:I:35:GLY:O	9:I:77:TYR:N	2.38	0.55
9:I:53:PRO:HB3	9:I:93:TYR:CG	2.41	0.55
10:J:88:LEU:HD23	10:J:89:LYS:HZ2	1.70	0.55
11:K:324:LYS:HA	11:K:327:LYS:HG2	1.88	0.55
12:L:133:PRO:CA	12:L:581:ARG:HH22	2.19	0.55
12:L:325:ARG:NH2	12:L:464:GLU:OE2	2.39	0.55
12:L:328:ARG:HB3	12:L:461:ILE:HG21	1.87	0.55
12:L:788:ALA:O	12:L:792:VAL:HG23	2.05	0.55
12:L:823:LYS:O	12:L:827:LYS:HG2	2.06	0.55
13:P:175:ASN:HB3	13:P:358:ARG:HD2	1.86	0.55
13:P:319:ASN:ND2	14:R:168:ASN:HB2	2.21	0.55
15:S:25:LEU:CB	15:s:25:LEU:HD13	2.35	0.55
9:i:118:ILE:CB	9:i:121:MET:HE2	2.35	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:i:118:ILE:CG1	9:i:121:MET:HE2	2.35	0.55
1:A:282:LYS:CD	2:B:275:LYS:HZ2	2.20	0.55
2:B:163:GLU:HG3	4:D:159:LYS:HZ3	1.70	0.55
3:C:115:PHE:CD1	3:C:137:ASN:HB3	2.42	0.55
3:C:282:LEU:HD23	3:C:515:ILE:HG21	1.86	0.55
3:C:336:LEU:HD22	3:C:339:MET:CE	2.36	0.55
3:C:367:GLU:OE2	3:C:397:LYS:HD2	2.06	0.55
7:G:58:HIS:HD1	7:G:87:ARG:HB2	1.71	0.55
7:G:197:ASN:HB2	14:Q:26:ILE:CB	2.23	0.55
8:H:512:GLN:OE1	8:H:524:LYS:HD2	2.06	0.55
8:H:772:ARG:O	8:H:776:ILE:HG13	2.06	0.55
10:J:111:LYS:HE3	11:K:209:ASP:HB2	1.88	0.55
11:K:269:LYS:CE	11:K:270:GLU:HG3	2.34	0.55
12:L:6:TYR:CE1	12:L:67:CYS:HA	2.41	0.55
12:L:301:PHE:CE1	12:L:305:ILE:HD11	2.42	0.55
12:L:732:LYS:HE2	12:L:836:VAL:CA	2.27	0.55
12:L:769:PRO:HB2	12:L:772:THR:HG23	1.88	0.55
12:L:846:LYS:O	12:L:846:LYS:HG2	2.07	0.55
13:P:272:ASP:CG	13:P:275:PHE:HD2	2.14	0.55
14:R:43:SER:C	14:R:47:LYS:HE2	2.31	0.55
1:A:60:ILE:HG23	1:A:63:GLU:OE2	2.07	0.55
1:A:137:ILE:HG23	2:B:134:LEU:HD11	1.89	0.55
3:C:518:SER:HA	3:C:521:MET:CG	2.36	0.55
6:F:34:VAL:HG12	6:F:41:TYR:CD2	2.41	0.55
6:F:350:LEU:CD2	6:F:378:LEU:HD13	2.37	0.55
7:G:112:GLU:HB3	7:G:142:LEU:CG	2.36	0.55
7:G:178:ALA:HB1	7:G:207:LEU:HD23	1.87	0.55
8:H:347:MET:HA	8:H:353:TRP:CB	2.35	0.55
9:I:125:LEU:HD22	9:I:132:PHE:CE2	2.42	0.55
10:J:233:GLN:O	10:J:236:GLU:HB2	2.07	0.55
10:J:302:LEU:HD13	11:K:366:VAL:CA	2.36	0.55
11:K:247:PHE:O	11:K:251:LYS:HG2	2.06	0.55
11:K:328:ARG:HA	11:K:331:GLN:CD	2.31	0.55
11:K:355:ILE:O	11:K:358:GLU:HG3	2.07	0.55
12:L:261:LEU:HA	12:L:266:MET:CB	2.29	0.55
12:L:324:MET:CG	12:L:457:VAL:HG21	2.37	0.55
12:L:650:ILE:O	12:L:654:ILE:HG13	2.07	0.55
13:P:125:LEU:HD11	13:P:140:VAL:O	2.07	0.55
13:P:259:PRO:HB3	13:P:265:GLU:OE1	2.06	0.55
14:Q:54:PHE:CE2	14:Q:65:ILE:HG23	2.42	0.55
1:A:228:MET:HE2	2:B:222:LEU:HB3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:124:LEU:CD1	3:C:127:LEU:HB3	2.37	0.55
3:C:536:ASN:O	3:C:540:GLU:OE1	2.25	0.55
6:F:293:LEU:HD21	6:F:295:LEU:CD1	2.37	0.55
8:H:96:LEU:HD22	8:H:331:ILE:HG12	1.88	0.55
9:I:18:LEU:HD11	9:I:88:LEU:CD1	2.34	0.55
10:J:27:ASN:CA	10:J:31:ASP:HB2	2.25	0.55
11:K:413:HIS:CE1	14:R:56:LEU:H	2.23	0.55
11:K:413:HIS:ND1	14:R:56:LEU:HB2	2.20	0.55
12:L:50:TRP:CE3	12:L:53:LEU:HD12	2.42	0.55
12:L:740:TYR:CE1	12:L:829:PHE:HB3	2.42	0.55
15:S:108:LYS:HE2	15:S:108:LYS:HA	1.89	0.55
9:i:111:GLU:HG3	9:i:113:LYS:CE	2.31	0.55
2:B:63:PHE:HA	9:i:177:GLY:CA	2.35	0.55
6:F:63:LEU:HD23	6:F:68:MET:HB3	1.87	0.55
6:F:66:LEU:HD21	6:F:133:GLU:CG	2.33	0.55
7:G:203:MET:O	7:G:203:MET:HG3	2.06	0.55
8:H:6:GLY:C	8:H:8:TYR:CD2	2.83	0.55
8:H:115:ARG:HD3	8:H:406:PRO:CB	2.32	0.55
8:H:196:ILE:HD11	8:H:316:PRO:CG	2.26	0.55
8:H:320:VAL:O	8:H:332:ASN:ND2	2.38	0.55
8:H:456:GLN:CG	8:H:462:LYS:HE3	2.34	0.55
10:J:19:ARG:O	10:J:23:LEU:HG	2.07	0.55
12:L:415:GLN:O	12:L:418:LYS:HG3	2.06	0.55
12:L:551:LYS:HE2	12:L:551:LYS:HA	1.89	0.55
12:L:604:MET:HB2	12:L:736:ASP:CG	2.32	0.55
12:L:841:ALA:O	12:L:844:GLU:HG3	2.07	0.55
14:R:65:ILE:HB	14:R:69:GLU:HB2	1.88	0.55
15:s:115:GLN:O	15:s:119:LYS:HD3	2.06	0.55
1:A:9:GLY:O	1:A:13:ILE:HG13	2.06	0.55
2:B:72:TRP:CA	2:B:75:ILE:HG22	2.36	0.55
3:C:367:GLU:CD	3:C:397:LYS:HD2	2.31	0.55
6:F:155:ILE:HG22	6:F:199:ALA:CB	2.37	0.55
6:F:269:ASN:CG	6:F:297:LEU:HD13	2.32	0.55
6:F:284:LEU:HD21	6:F:290:LEU:CD2	2.37	0.55
6:F:350:LEU:HD23	6:F:378:LEU:HD13	1.89	0.55
7:G:85:SER:CA	7:G:113:TYR:HB3	2.37	0.55
7:G:102:CYS:HA	7:G:132:VAL:HG21	1.89	0.55
7:G:182:GLU:HA	10:J:363:LYS:HD3	1.88	0.55
8:H:603:ALA:CB	8:H:624:HIS:HB2	2.28	0.55
10:J:126:LEU:HD22	10:J:138:PHE:CZ	2.42	0.55
10:J:288:ILE:HD11	11:K:352:LYS:HB2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:305:LEU:HB3	11:K:309:PHE:CE2	2.41	0.55
11:K:415:LEU:CD1	14:Q:143:THR:HB	2.37	0.55
12:L:357:MET:HA	12:L:362:GLN:OE1	2.07	0.55
12:L:426:ARG:HH21	12:L:439:GLU:HG3	1.71	0.55
12:L:677:ILE:HG21	12:L:695:MET:HB3	1.87	0.55
13:P:132:ARG:NE	13:P:140:VAL:HG13	2.22	0.55
13:P:177:LEU:HD21	13:P:358:ARG:HH21	1.71	0.55
13:P:207:ILE:HG21	13:P:242:VAL:HG21	1.89	0.55
13:P:317:LEU:HB2	14:R:162:LEU:CG	2.37	0.55
13:P:319:ASN:O	14:R:168:ASN:O	2.25	0.55
13:P:361:PHE:HD2	14:R:169:ARG:HE	1.54	0.55
14:Q:66:ASN:OD1	14:Q:68:SER:N	2.40	0.55
15:S:35:ARG:HD3	15:s:36:LEU:HD21	1.89	0.55
15:S:39:GLU:HG2	15:s:40:GLN:CG	2.36	0.55
1:A:47:ALA:HA	1:A:51:ARG:HD3	1.88	0.55
1:A:209:ASN:HB3	2:B:204:LYS:NZ	2.22	0.55
3:C:289:TYR:HB2	3:C:295:LEU:CD2	2.29	0.55
7:G:209:LYS:HZ3	7:G:237:ASP:HB3	1.72	0.55
8:H:259:ARG:HA	8:H:259:ARG:NE	2.21	0.55
9:I:21:LYS:HZ2	9:I:49:LEU:HD23	1.71	0.55
9:I:46:MET:HG2	9:I:84:MET:HE1	1.89	0.55
10:J:8:LYS:HE3	11:K:74:PHE:HE1	1.72	0.55
10:J:102:ASN:OD1	11:K:205:ALA:HB2	2.07	0.55
11:K:434:LYS:HE2	14:Q:131:LEU:CD2	2.36	0.55
12:L:670:TYR:HD1	12:L:717:ILE:HG22	1.72	0.55
12:L:807:LYS:HB2	12:L:810:GLU:HG3	1.88	0.55
13:P:219:ARG:O	13:P:223:ASN:N	2.40	0.55
13:P:330:ARG:NH1	13:P:354:GLN:HG3	2.21	0.55
14:Q:164:MET:HG3	14:Q:170:TRP:O	2.07	0.55
1:A:236:GLU:OE1	1:A:237:LYS:N	2.40	0.54
2:B:55:LYS:CA	5:E:36:LYS:HG2	2.36	0.54
3:C:35:ILE:HD13	3:C:69:LEU:HD13	1.89	0.54
3:C:84:GLU:O	3:C:107:ASN:HB2	2.07	0.54
3:C:320:HIS:ND1	3:C:445:LYS:HD3	2.23	0.54
3:C:457:LEU:O	3:C:460:ILE:HG22	2.07	0.54
6:F:149:ILE:CG2	6:F:151:GLN:HG2	2.37	0.54
6:F:228:VAL:O	6:F:228:VAL:HG12	2.07	0.54
6:F:328:PHE:HB3	6:F:332:THR:CG2	2.37	0.54
6:F:421:LEU:HD23	6:F:426:ILE:HG21	1.88	0.54
7:G:72:MET:CE	7:G:104:TYR:HB3	2.36	0.54
7:G:133:LEU:O	7:G:166:ASN:ND2	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:171:LYS:HE3	7:G:199:LYS:HE2	1.89	0.54
7:G:217:PHE:CD2	7:G:270:ILE:HA	2.42	0.54
7:G:262:HIS:NE2	7:G:266:ILE:HD11	2.21	0.54
10:J:27:ASN:OD1	11:K:59:ARG:NH1	2.37	0.54
11:K:279:GLU:CD	11:K:283:ARG:HH21	2.16	0.54
11:K:328:ARG:NH1	11:K:329:GLN:HA	2.22	0.54
12:L:245:ARG:HH22	9:i:130:ILE:CG2	2.21	0.54
12:L:448:VAL:HG12	12:L:452:GLN:NE2	2.22	0.54
13:P:114:ASP:CG	13:P:118:ARG:HH21	2.15	0.54
13:P:284:ASN:HA	13:P:292:ILE:CD1	2.35	0.54
1:A:94:MET:HG3	1:A:95:GLN:OE1	2.07	0.54
1:A:201:LYS:O	1:A:205:GLU:OE1	2.25	0.54
3:C:263:LYS:CA	3:C:266:MET:HE2	2.37	0.54
3:C:322:VAL:HA	3:C:325:GLN:NE2	2.22	0.54
3:C:518:SER:HA	3:C:521:MET:HG2	1.90	0.54
4:D:114:LEU:O	4:D:117:GLN:N	2.40	0.54
5:E:143:LYS:HB3	8:H:361:LEU:HD21	1.89	0.54
6:F:256:LEU:HD22	6:F:290:LEU:HD22	1.88	0.54
7:G:76:THR:CG2	7:G:107:LYS:HG2	2.29	0.54
7:G:169:LEU:HD23	7:G:172:LEU:HB2	1.90	0.54
8:H:50:CYS:HB3	8:H:103:GLU:CB	2.37	0.54
8:H:135:SER:O	8:H:199:ARG:NH2	2.40	0.54
8:H:459:LYS:O	8:H:460:ARG:HB2	2.06	0.54
8:H:477:LEU:HD21	8:H:480:ARG:CG	2.37	0.54
8:H:511:ARG:NH1	8:H:526:TYR:HD1	2.05	0.54
8:H:679:GLN:O	8:H:683:GLN:HG2	2.08	0.54
9:I:6:THR:HG21	9:I:14:GLN:HE22	1.72	0.54
9:I:51:GLN:HE21	9:I:88:LEU:HA	1.72	0.54
10:J:112:VAL:HG13	11:K:202:LEU:CD1	2.36	0.54
10:J:115:ASP:CB	11:K:202:LEU:HD21	2.36	0.54
10:J:228:GLU:HB3	10:J:232:LYS:HE3	1.89	0.54
12:L:305:ILE:HG23	12:L:445:ILE:CG1	2.37	0.54
12:L:599:GLU:HG3	12:L:711:GLU:OE1	2.08	0.54
12:L:731:ILE:HD13	12:L:832:PHE:CZ	2.40	0.54
12:L:756:PHE:CD2	12:L:789:ILE:HD12	2.35	0.54
15:S:56:ARG:O	15:S:57:LEU:HB2	2.07	0.54
9:i:170:HIS:O	9:i:174:VAL:HG23	2.06	0.54
1:A:192:GLU:OE2	4:D:181:THR:HG23	2.07	0.54
2:B:63:PHE:CZ	9:i:20:LEU:HG	2.33	0.54
3:C:172:PHE:CE1	3:C:191:LEU:HD23	2.42	0.54
3:C:391:LEU:HD12	3:C:564:LEU:CD1	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:441:LEU:HD21	3:C:445:LYS:NZ	2.22	0.54
6:F:98:HIS:CB	6:F:105:ALA:HB2	2.37	0.54
6:F:247:GLN:HG3	6:F:251:ARG:NH2	2.22	0.54
6:F:455:GLN:O	6:F:458:GLN:HB2	2.07	0.54
8:H:115:ARG:HD2	8:H:410:LYS:HZ2	1.73	0.54
11:K:163:LEU:CD2	11:K:169:ASP:HB3	2.37	0.54
11:K:268:GLU:HA	11:K:271:LYS:CG	2.37	0.54
11:K:412:LEU:HA	14:Q:145:ASN:HA	1.88	0.54
12:L:68:TYR:HE1	12:L:77:ARG:HB3	1.72	0.54
12:L:89:VAL:HG11	12:L:408:ILE:CD1	2.37	0.54
12:L:154:ASP:HB3	12:L:164:LYS:CE	2.34	0.54
12:L:738:LYS:NZ	12:L:833:ASN:HA	2.18	0.54
12:L:755:THR:HA	12:L:758:GLU:OE2	2.07	0.54
13:P:153:TYR:OH	13:P:162:HIS:HA	2.07	0.54
13:P:177:LEU:CD1	13:P:355:LEU:HG	2.36	0.54
14:R:119:ASN:O	14:R:123:GLU:OE1	2.24	0.54
14:R:129:PHE:CE1	14:R:196:VAL:HG22	2.42	0.54
9:i:111:GLU:CG	9:i:113:LYS:HG3	2.37	0.54
9:i:121:MET:SD	9:i:154:ILE:HD12	2.47	0.54
1:A:8:LYS:CE	1:A:166:PHE:HA	2.37	0.54
1:A:189:LEU:H	1:A:189:LEU:HD12	1.72	0.54
2:B:67:LYS:HE3	9:i:20:LEU:CD1	2.38	0.54
6:F:319:LEU:CA	6:F:347:LEU:HA	2.29	0.54
7:G:230:ASP:C	7:G:231:LEU:HD23	2.33	0.54
8:H:5:GLU:C	8:H:8:TYR:CD1	2.83	0.54
8:H:549:TYR:HD2	8:H:556:VAL:O	1.91	0.54
8:H:771:SER:HA	8:H:774:GLU:OE1	2.06	0.54
8:H:776:ILE:CG2	8:H:822:ALA:HB2	2.38	0.54
9:I:102:LEU:HD22	9:I:160:ILE:HG21	1.88	0.54
10:J:193:ASN:O	10:J:197:ARG:HG2	2.08	0.54
11:K:102:LEU:HD11	11:K:176:MET:CE	2.37	0.54
12:L:258:GLU:HA	12:L:261:LEU:CG	2.38	0.54
12:L:357:MET:HB2	12:L:362:GLN:CD	2.33	0.54
12:L:495:PHE:HB3	12:L:702:PHE:CZ	2.43	0.54
12:L:676:TYR:CD1	12:L:688:VAL:HG21	2.42	0.54
13:P:277:ILE:HG23	13:P:277:ILE:O	2.07	0.54
13:P:280:ILE:HG22	13:P:280:ILE:O	2.06	0.54
13:P:317:LEU:CB	14:R:162:LEU:HD13	2.36	0.54
14:Q:31:LYS:CE	14:Q:110:ILE:HG21	2.38	0.54
14:Q:81:PHE:HZ	14:Q:115:LYS:HG2	1.73	0.54
15:s:70:ARG:NH2	15:s:71:LEU:HB2	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:149:ILE:HG22	6:F:151:GLN:H	1.73	0.54
6:F:244:ILE:HB	6:F:270:ASN:CG	2.32	0.54
7:G:236:PHE:HB3	7:G:288:ASN:ND2	2.21	0.54
10:J:234:LEU:HD13	11:K:295:LYS:HE3	1.89	0.54
10:J:277:VAL:HG22	11:K:341:TYR:CD1	2.43	0.54
11:K:211:ASN:O	11:K:216:LEU:HB2	2.08	0.54
12:L:40:LYS:HE2	12:L:40:LYS:HA	1.89	0.54
12:L:237:ALA:HB1	12:L:241:LYS:CE	2.38	0.54
12:L:386:LYS:HG3	12:L:387:LYS:N	2.23	0.54
13:P:124:LEU:CD1	13:P:231:ILE:HG21	2.38	0.54
13:P:144:LEU:HD13	13:P:362:GLN:CG	2.36	0.54
13:P:277:ILE:HG21	13:P:309:TRP:CG	2.41	0.54
15:S:36:LEU:HD11	15:s:35:ARG:CD	2.34	0.54
1:A:207:THR:O	1:A:211:GLU:HG2	2.07	0.54
3:C:109:LYS:C	3:C:130:LEU:HD12	2.33	0.54
3:C:375:TRP:CD1	3:C:391:LEU:HD11	2.42	0.54
3:C:424:ASP:CG	3:C:428:LYS:HE3	2.32	0.54
4:D:49:GLU:O	4:D:53:GLU:OE1	2.25	0.54
5:E:55:MET:CE	12:L:266:MET:HG2	2.38	0.54
6:F:188:MET:CE	6:F:193:ALA:HB2	2.29	0.54
6:F:320:GLU:HG2	6:F:349:VAL:CG2	2.38	0.54
6:F:417:ILE:O	6:F:421:LEU:HD13	2.07	0.54
7:G:228:LYS:HZ1	7:G:309:TYR:HE1	1.54	0.54
8:H:5:GLU:C	8:H:8:TYR:CE1	2.83	0.54
8:H:446:ASP:HA	8:H:699:ILE:HD12	1.88	0.54
8:H:451:LYS:HE2	8:H:453:THR:OG1	2.07	0.54
8:H:469:PHE:CD1	8:H:479:ILE:HG12	2.42	0.54
8:H:594:LYS:HG3	8:H:609:LYS:HG3	1.89	0.54
8:H:787:LEU:HB2	8:H:811:ILE:HG21	1.89	0.54
10:J:5:ASP:HA	10:J:8:LYS:HE3	1.90	0.54
10:J:163:TYR:HA	10:J:166:ILE:HG22	1.89	0.54
11:K:272:LYS:HA	11:K:275:GLN:OE1	2.07	0.54
12:L:134:ILE:HG13	12:L:527:LEU:CD2	2.36	0.54
6:F:98:HIS:CG	6:F:105:ALA:HB2	2.43	0.54
6:F:222:ARG:HG2	6:F:225:MET:HE2	1.89	0.54
8:H:171:SER:OG	8:H:304:PRO:HG2	2.08	0.54
8:H:243:TRP:O	8:H:247:GLN:HG2	2.08	0.54
9:I:115:TYR:HB3	9:I:155:TYR:CE1	2.42	0.54
10:J:157:PHE:CD1	10:J:160:LYS:HD2	2.42	0.54
10:J:288:ILE:CD1	11:K:352:LYS:HB2	2.37	0.54
10:J:302:LEU:HD12	11:K:369:LEU:HD12	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:557:ASP:OD2	12:L:560:LEU:HG	2.08	0.54
12:L:604:MET:HE1	12:L:737:LYS:HG2	1.89	0.54
13:P:117:LEU:HD22	13:P:233:VAL:CG2	2.38	0.54
13:P:326:GLU:HB3	13:P:328:TYR:CE1	2.43	0.54
15:S:32:LEU:HB2	15:s:32:LEU:HD13	1.90	0.54
9:i:6:THR:HB	9:i:10:GLU:HB3	1.89	0.54
9:i:121:MET:CE	9:i:141:ILE:HG12	2.29	0.54
15:s:70:ARG:HH12	15:s:74:ILE:HG21	1.73	0.54
2:B:53:ARG:HG2	5:E:35:LEU:C	2.33	0.54
2:B:69:ILE:HG12	5:E:48:TYR:HD1	1.72	0.54
3:C:131:THR:CA	3:C:152:LEU:HD23	2.37	0.54
3:C:154:VAL:CA	3:C:193:VAL:HB	2.20	0.54
3:C:374:ASN:HD21	3:C:386:LYS:NZ	2.06	0.54
6:F:187:GLY:HA2	6:F:215:MET:HE2	1.89	0.54
7:G:198:LEU:H	14:Q:24:LYS:N	2.02	0.54
8:H:770:LEU:O	8:H:773:ALA:HB3	2.07	0.54
11:K:11:LEU:HB3	11:K:13:PRO:CD	2.37	0.54
11:K:61:LEU:HD11	11:K:199:LEU:CD1	2.28	0.54
14:Q:11:LEU:HD12	14:Q:11:LEU:O	2.08	0.54
15:s:99:THR:O	15:s:103:LYS:HG3	2.08	0.54
1:A:25:ARG:HH22	6:F:430:SER:HA	1.73	0.54
1:A:239:PHE:HA	1:A:242:MET:HE2	1.89	0.54
2:B:147:GLU:O	2:B:151:ARG:HG3	2.08	0.54
3:C:214:ILE:CD1	3:C:236:ILE:HD12	2.37	0.54
3:C:271:LEU:HD11	3:C:275:LYS:HE2	1.90	0.54
3:C:409:GLU:OE1	3:C:412:LEU:HD23	2.08	0.54
3:C:423:TYR:HB2	8:H:231:ASN:CG	2.32	0.54
6:F:300:LEU:CD1	6:F:328:PHE:HZ	2.20	0.54
7:G:56:LYS:HG2	7:G:85:SER:CB	2.34	0.54
7:G:167:SER:CB	14:Q:28:GLU:HB2	2.34	0.54
7:G:204:LYS:HA	7:G:234:ASN:ND2	2.22	0.54
10:J:312:GLU:OE2	11:K:376:ILE:HG21	2.08	0.54
11:K:414:PHE:HA	14:R:55:ALA:CB	2.34	0.54
12:L:71:LEU:HD21	12:L:76:LYS:CG	2.38	0.54
12:L:587:TYR:HB3	12:L:607:PHE:CZ	2.43	0.54
12:L:617:LYS:NZ	12:L:670:TYR:OH	2.33	0.54
13:P:325:ILE:HG21	13:P:327:TYR:CE2	2.43	0.54
14:Q:178:PHE:HZ	14:Q:195:VAL:HG13	1.73	0.54
1:A:54:ARG:HA	1:A:57:TYR:HD2	1.73	0.54
1:A:171:SER:HA	1:A:174:LEU:HD21	1.90	0.54
1:A:273:GLU:HA	1:A:276:ARG:HG2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:37:GLU:HA	3:C:40:ILE:HG12	1.87	0.54
3:C:364:PHE:CE1	3:C:398:THR:HG22	2.43	0.54
3:C:364:PHE:HZ	3:C:398:THR:HG22	1.67	0.54
3:C:439:ILE:HD13	3:C:520:GLN:HG2	1.90	0.54
5:E:75:SER:HA	12:L:1:MET:HB3	1.90	0.54
6:F:252:ILE:O	6:F:256:LEU:HG	2.08	0.54
6:F:320:GLU:HA	6:F:349:VAL:CB	2.30	0.54
7:G:69:ARG:HA	7:G:100:THR:HG21	1.89	0.54
8:H:188:VAL:HG22	8:H:323:VAL:HG13	1.89	0.54
9:I:105:PHE:HD2	9:I:160:ILE:HD11	1.71	0.54
10:J:295:LYS:HE3	11:K:358:GLU:CD	2.33	0.54
11:K:330:GLN:OE1	11:K:330:GLN:HA	2.08	0.54
12:L:31:ASN:OD1	12:L:35:LEU:HD23	2.08	0.54
12:L:158:LEU:HD23	12:L:164:LYS:NZ	2.23	0.54
12:L:168:GLU:HB2	12:L:523:ILE:HD11	1.88	0.54
12:L:340:GLU:HG3	12:L:340:GLU:O	2.08	0.54
12:L:419:HIS:HA	12:L:423:TRP:CE3	2.42	0.54
12:L:446:LYS:HG3	12:L:447:PRO:HD3	1.87	0.54
12:L:583:ILE:HG13	12:L:587:TYR:HE1	1.71	0.54
13:P:129:ASN:OD1	13:P:140:VAL:N	2.41	0.54
13:P:282:ILE:HG12	13:P:326:GLU:HB2	1.89	0.54
13:P:294:GLY:CA	14:R:177:GLU:HG2	2.36	0.54
13:P:317:LEU:HB2	14:R:162:LEU:CB	2.37	0.54
13:P:348:LEU:HD12	13:P:349:THR:H	1.73	0.54
13:P:377:ARG:O	13:P:380:LYS:HB2	2.08	0.54
14:R:178:PHE:HE2	14:R:195:VAL:HG22	1.72	0.54
15:S:30:GLU:O	15:S:34:GLN:HG3	2.07	0.54
15:S:107:ILE:HG12	15:S:110:LYS:NZ	2.22	0.54
1:A:239:PHE:HD2	1:A:242:MET:CE	2.21	0.53
2:B:55:LYS:HA	2:B:60:VAL:CG2	2.38	0.53
2:B:72:TRP:O	2:B:75:ILE:HG22	2.08	0.53
2:B:138:GLN:NE2	2:B:142:MET:HE2	2.23	0.53
3:C:388:GLU:CG	3:C:564:LEU:HD12	2.32	0.53
3:C:395:LEU:O	3:C:398:THR:OG1	2.16	0.53
4:D:150:ASP:OD1	8:H:69:LYS:NZ	2.41	0.53
7:G:97:GLY:O	7:G:100:THR:OG1	2.20	0.53
7:G:318:PRO:HB2	7:G:321:LEU:CG	2.30	0.53
8:H:124:LEU:HD12	8:H:130:CYS:CB	2.23	0.53
8:H:138:VAL:O	8:H:199:ARG:NH1	2.39	0.53
8:H:609:LYS:C	8:H:622:TYR:H	2.16	0.53
9:I:49:LEU:HB3	9:I:88:LEU:CD1	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:175:MET:O	9:I:178:TYR:HD1	1.90	0.53
10:J:11:ILE:HA	10:J:14:ARG:CG	2.38	0.53
11:K:162:HIS:NE2	11:K:169:ASP:OD2	2.41	0.53
11:K:408:ALA:HA	11:K:411:ILE:HB	1.90	0.53
11:K:418:ARG:CB	11:K:419:LYS:HB2	2.38	0.53
12:L:59:ASP:OD2	12:L:63:LYS:NZ	2.28	0.53
12:L:328:ARG:HD3	12:L:461:ILE:CB	2.38	0.53
13:P:264:ILE:H	14:R:160:LYS:CG	2.21	0.53
13:P:315:LEU:HD11	14:R:163:LEU:HD12	1.90	0.53
15:s:68:LYS:HE2	15:s:68:LYS:HA	1.90	0.53
1:A:239:PHE:O	1:A:243:LYS:HD3	2.08	0.53
3:C:125:ASP:HB3	3:C:148:ASN:ND2	2.23	0.53
3:C:383:ASP:O	3:C:387:GLU:HG3	2.08	0.53
3:C:449:GLU:O	3:C:452:LYS:HG2	2.08	0.53
3:C:451:VAL:HA	3:C:505:LYS:CE	2.39	0.53
6:F:25:LEU:HG	6:F:26:LEU:N	2.23	0.53
6:F:376:ALA:O	6:F:377:LYS:HD2	2.08	0.53
6:F:436:LYS:O	6:F:440:LEU:HG	2.08	0.53
7:G:116:LEU:C	7:G:119:ASN:HD22	2.16	0.53
8:H:142:GLU:CG	8:H:198:THR:HA	2.33	0.53
8:H:170:MET:HG3	8:H:304:PRO:HB2	1.91	0.53
8:H:535:ILE:CD1	8:H:550:GLN:HG2	2.35	0.53
9:I:119:ASP:O	9:I:123:THR:HG23	2.08	0.53
10:J:48:GLN:HG3	10:J:88:LEU:HD12	1.90	0.53
11:K:51:LYS:HB3	11:K:203:SER:O	2.08	0.53
11:K:172:ILE:O	11:K:175:SER:OG	2.17	0.53
12:L:89:VAL:CG1	12:L:408:ILE:HD13	2.37	0.53
12:L:435:LYS:HG3	12:L:436:HIS:N	2.22	0.53
12:L:435:LYS:HZ1	12:L:436:HIS:HB3	1.72	0.53
13:P:293:LYS:HG3	14:R:176:ASN:N	2.22	0.53
13:P:313:PHE:HB2	14:R:175:ALA:O	2.09	0.53
14:Q:58:ASP:OD2	14:Q:63:LYS:N	2.31	0.53
9:i:101:LEU:CD2	9:i:160:ILE:HG12	2.38	0.53
1:A:117:GLU:OE2	1:A:121:ARG:NH1	2.41	0.53
2:B:58:GLN:HG3	5:E:39:VAL:HB	1.90	0.53
2:B:72:TRP:NE1	2:B:76:MET:SD	2.82	0.53
3:C:451:VAL:HA	3:C:505:LYS:NZ	2.23	0.53
4:D:207:LYS:O	4:D:211:GLU:OE1	2.26	0.53
7:G:196:THR:HG23	7:G:196:THR:O	2.07	0.53
7:G:217:PHE:CE2	7:G:270:ILE:HG23	2.44	0.53
7:G:228:LYS:HE2	7:G:309:TYR:OH	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:272:GLU:HA	10:J:275:LYS:HE3	1.91	0.53
10:J:284:LEU:HD12	10:J:285:GLN:N	2.23	0.53
10:J:297:LYS:O	10:J:300:GLU:HG3	2.09	0.53
10:J:299:GLN:HB3	10:J:303:ARG:HH22	1.72	0.53
11:K:394:LYS:HG2	11:K:397:TRP:CE3	2.44	0.53
12:L:81:LYS:HD2	12:L:141:GLU:OE2	2.09	0.53
12:L:156:LEU:HD12	12:L:510:LEU:HG	1.90	0.53
12:L:156:LEU:HD22	12:L:511:ALA:HA	1.90	0.53
12:L:677:ILE:CG2	12:L:695:MET:HB3	2.38	0.53
13:P:186:THR:OG1	13:P:241:VAL:HG22	2.07	0.53
13:P:366:ASP:OD1	13:P:367:PRO:HD2	2.08	0.53
15:S:104:ASP:HA	15:S:107:ILE:HD12	1.89	0.53
2:B:54:ILE:O	2:B:60:VAL:CG2	2.46	0.53
3:C:86:LEU:HD21	3:C:89:LEU:CD1	2.38	0.53
3:C:108:LEU:HG	3:C:130:LEU:CD1	2.36	0.53
6:F:101:SER:HB3	6:F:104:VAL:HG22	1.90	0.53
6:F:172:TYR:CD2	6:F:188:MET:HA	2.43	0.53
6:F:217:ASP:OD1	6:F:218:ASP:N	2.39	0.53
6:F:269:ASN:HA	6:F:297:LEU:O	2.08	0.53
6:F:438:LYS:HE2	6:F:438:LYS:HA	1.91	0.53
7:G:81:LEU:CD2	7:G:108:SER:HB2	2.39	0.53
8:H:80:PHE:CG	8:H:356:VAL:HG13	2.43	0.53
8:H:488:LYS:HG3	8:H:516:ILE:CG1	2.37	0.53
8:H:564:ASP:HB3	8:H:589:THR:HG21	1.88	0.53
9:I:28:LEU:CD2	12:L:205:LYS:HG3	2.38	0.53
10:J:270:SER:CB	11:K:334:LEU:HD13	2.38	0.53
11:K:281:ASP:HB3	11:K:285:LYS:HZ3	1.71	0.53
11:K:365:GLU:OE1	11:K:365:GLU:HA	2.07	0.53
12:L:58:ILE:O	12:L:62:LYS:HG3	2.09	0.53
12:L:106:ASP:O	12:L:846:LYS:HD2	2.09	0.53
12:L:465:LEU:HA	12:L:468:VAL:CG2	2.36	0.53
14:Q:194:ASP:O	14:Q:198:LYS:HD3	2.09	0.53
15:S:97:ASN:OD1	15:s:96:LEU:HD11	2.08	0.53
15:S:111:ASP:OD1	15:s:110:LYS:NZ	2.37	0.53
15:s:135:LEU:O	15:s:139:ILE:HG13	2.09	0.53
1:A:152:ARG:HG2	5:E:127:TYR:CZ	2.44	0.53
1:A:155:ASN:HA	1:A:158:GLU:OE2	2.08	0.53
3:C:33:ARG:CZ	3:C:33:ARG:HA	2.38	0.53
6:F:98:HIS:HB3	6:F:105:ALA:HB2	1.91	0.53
6:F:257:MET:CE	6:F:283:ALA:HA	2.39	0.53
7:G:133:LEU:HG	7:G:163:LEU:HD21	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:150:GLU:N	7:G:150:GLU:OE1	2.42	0.53
7:G:171:LYS:HG3	7:G:199:LYS:HD3	1.91	0.53
7:G:175:ASN:HA	7:G:204:LYS:O	2.08	0.53
7:G:211:GLU:CG	10:J:365:LYS:HE3	2.38	0.53
8:H:9:SER:CB	8:H:10:HIS:CA	2.83	0.53
8:H:102:ASN:CA	8:H:152:VAL:HG13	2.38	0.53
8:H:463:VAL:HG21	8:H:466:TYR:CZ	2.44	0.53
8:H:573:ASN:CB	8:H:576:LYS:HB2	2.37	0.53
10:J:113:LYS:HD2	10:J:116:ARG:HH22	1.72	0.53
10:J:357:ALA:N	14:Q:38:PHE:CE2	2.77	0.53
11:K:113:GLN:OE1	11:K:155:ASN:HB3	2.08	0.53
12:L:506:PRO:HG3	12:L:659:LYS:HZ1	1.72	0.53
13:P:197:LYS:HA	13:P:200:ILE:HD12	1.91	0.53
13:P:320:GLN:HB2	14:R:166:LEU:N	2.24	0.53
13:P:327:TYR:CD2	13:P:357:LEU:HD23	2.44	0.53
14:R:37:ASP:HB2	14:R:117:ARG:HH22	1.73	0.53
9:i:19:LYS:HG2	9:i:81:GLU:CG	2.38	0.53
1:A:191:LEU:HD11	1:A:195:TYR:OH	2.09	0.53
3:C:46:GLN:HA	3:C:49:GLN:OE1	2.09	0.53
3:C:66:GLN:OE1	3:C:88:LYS:HD2	2.07	0.53
3:C:336:LEU:HA	3:C:339:MET:CE	2.38	0.53
6:F:302:ASP:HB2	6:F:329:GLU:CD	2.34	0.53
6:F:320:GLU:CB	6:F:349:VAL:HB	2.38	0.53
8:H:161:VAL:HG12	8:H:162:TRP:HD1	1.74	0.53
8:H:163:GLN:HG3	8:H:163:GLN:O	2.09	0.53
8:H:175:CYS:O	8:H:179:ILE:HG13	2.09	0.53
11:K:187:LEU:O	11:K:191:ILE:HG12	2.09	0.53
12:L:156:LEU:CD2	12:L:511:ALA:HA	2.39	0.53
12:L:738:LYS:HZ3	12:L:836:VAL:HB	1.73	0.53
12:L:809:SER:HA	12:L:812:ILE:HD12	1.91	0.53
13:P:282:ILE:CD1	14:R:173:GLU:HB2	2.39	0.53
14:Q:84:ASP:O	14:Q:88:GLU:OE1	2.25	0.53
15:S:64:PHE:HB3	15:s:64:PHE:CE1	2.44	0.53
15:s:43:ALA:O	15:s:47:LYS:HG3	2.08	0.53
15:s:121:TYR:O	15:s:125:LEU:HD13	2.09	0.53
1:A:236:GLU:O	1:A:239:PHE:HD1	1.91	0.53
3:C:32:PRO:HB3	3:C:75:LEU:CD2	2.38	0.53
3:C:108:LEU:CD2	3:C:111:LEU:HD13	2.39	0.53
3:C:168:ILE:HD12	3:C:213:ILE:CD1	2.37	0.53
3:C:339:MET:O	3:C:343:GLU:OE1	2.26	0.53
3:C:357:THR:HG21	8:H:630:ILE:HG21	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:401:LEU:HD11	3:C:405:LEU:HD11	1.90	0.53
3:C:533:GLN:C	3:C:537:LYS:HZ3	2.16	0.53
6:F:76:SER:O	6:F:80:ARG:NH1	2.42	0.53
6:F:130:LEU:O	6:F:134:LEU:HD13	2.08	0.53
6:F:293:LEU:H	6:F:318:LEU:HD11	1.73	0.53
6:F:350:LEU:CD2	6:F:378:LEU:HD22	2.33	0.53
7:G:239:THR:OG1	7:G:291:SER:HA	2.09	0.53
8:H:455:PHE:CD2	8:H:460:ARG:HA	2.43	0.53
9:I:102:LEU:HD13	9:I:160:ILE:HD12	1.89	0.53
10:J:299:GLN:HB3	10:J:303:ARG:CZ	2.37	0.53
10:J:354:TRP:HA	10:J:355:LYS:HD3	1.89	0.53
12:L:6:TYR:CE2	12:L:70:GLN:HB2	2.43	0.53
12:L:609:PHE:HB2	12:L:719:SER:CB	2.39	0.53
13:P:164:GLN:HE22	13:P:167:TYR:HD2	1.55	0.53
13:P:284:ASN:CG	13:P:292:ILE:HD11	2.33	0.53
14:Q:194:ASP:OD1	14:Q:195:VAL:HG23	2.09	0.53
15:S:39:GLU:OE2	15:s:43:ALA:HB3	2.08	0.53
1:A:39:GLU:O	1:A:43:LYS:HD3	2.08	0.53
1:A:152:ARG:HH12	5:E:123:LYS:HB3	1.74	0.53
2:B:56:ASP:HB2	5:E:36:LYS:HB3	1.90	0.53
2:B:125:ARG:O	2:B:129:ILE:HG13	2.08	0.53
3:C:102:ILE:HG22	3:C:123:GLY:C	2.34	0.53
3:C:378:GLU:HG3	3:C:387:GLU:OE2	2.08	0.53
6:F:300:LEU:HG	6:F:326:ASN:CG	2.34	0.53
6:F:309:PHE:CZ	6:F:336:LEU:HB3	2.44	0.53
6:F:365:LEU:O	6:F:369:PHE:N	2.21	0.53
8:H:115:ARG:CD	8:H:406:PRO:HB2	2.30	0.53
8:H:301:PHE:HB3	8:H:317:TYR:CE2	2.43	0.53
8:H:303:GLU:HB2	8:H:308:ARG:O	2.09	0.53
8:H:480:ARG:HD2	8:H:491:GLU:OE2	2.08	0.53
8:H:489:THR:O	8:H:514:ILE:HA	2.09	0.53
8:H:578:PHE:HZ	8:H:684:GLU:CB	2.21	0.53
8:H:709:ALA:HA	8:H:712:ARG:HD2	1.90	0.53
8:H:771:SER:O	8:H:775:ILE:HG13	2.09	0.53
9:I:48:TYR:CE1	12:L:198:ILE:HA	2.44	0.53
9:I:130:ILE:HB	12:L:193:ARG:HH12	1.74	0.53
10:J:355:LYS:HB3	14:Q:38:PHE:CE1	2.44	0.53
11:K:344:LEU:O	11:K:348:GLN:HG2	2.09	0.53
12:L:102:ASN:O	12:L:109:TYR:HB2	2.08	0.53
12:L:498:ASP:O	12:L:502:LYS:HG2	2.08	0.53
12:L:578:ALA:O	12:L:582:GLN:HG3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:757:LEU:HA	12:L:760:LYS:NZ	2.22	0.53
13:P:314:GLU:OE2	14:R:156:VAL:HA	2.08	0.53
9:i:119:ASP:HA	9:i:122:LYS:HG2	1.90	0.53
15:s:95:ASP:HA	15:s:98:LYS:HE2	1.90	0.53
3:C:124:LEU:HG	3:C:124:LEU:O	2.08	0.53
5:E:57:GLU:HG2	12:L:268:LYS:HE3	1.90	0.53
6:F:91:LYS:HG3	6:F:109:ARG:NH2	2.24	0.53
6:F:385:PHE:O	6:F:387:LYS:HG2	2.08	0.53
6:F:429:PHE:HA	6:F:433:ASP:HB2	1.91	0.53
8:H:76:HIS:NE2	8:H:357:MET:SD	2.82	0.53
10:J:101:GLU:C	10:J:103:PRO:HD3	2.34	0.53
10:J:112:VAL:HG12	11:K:56:GLU:CD	2.33	0.53
10:J:224:GLN:O	10:J:228:GLU:OE1	2.27	0.53
11:K:43:ASN:O	11:K:46:SER:OG	2.25	0.53
11:K:177:LYS:HE3	11:K:179:ASN:O	2.09	0.53
12:L:149:ARG:HH12	12:L:630:ALA:CA	2.20	0.53
12:L:149:ARG:NH1	12:L:630:ALA:HA	2.24	0.53
12:L:306:GLU:HA	12:L:309:LYS:HE3	1.90	0.53
12:L:777:THR:HG22	12:L:815:LEU:CD2	2.38	0.53
13:P:157:LEU:CB	13:P:241:VAL:HG21	2.39	0.53
13:P:266:ILE:HD12	14:R:172:GLU:CB	2.36	0.53
13:P:278:TYR:CD2	13:P:336:ILE:HG12	2.43	0.53
13:P:295:VAL:HG12	13:P:296:GLY:N	2.23	0.53
14:Q:190:ILE:CG2	14:Q:191:ASN:N	2.72	0.53
14:R:22:PRO:HG2	14:R:25:GLU:OE1	2.08	0.53
15:S:172:PRO:CA	15:S:175:MET:HE2	2.37	0.53
9:i:105:PHE:CD2	9:i:160:ILE:HD11	2.44	0.53
1:A:33:ASN:H	6:F:403:PHE:HD2	1.57	0.53
3:C:350:GLU:O	3:C:354:GLU:OE1	2.26	0.53
3:C:534:GLN:HA	3:C:537:LYS:HZ1	1.73	0.53
6:F:103:LYS:HE3	6:F:107:LEU:HD21	1.91	0.53
6:F:153:ILE:HG23	6:F:155:ILE:HD11	1.90	0.53
8:H:6:GLY:C	8:H:8:TYR:CD1	2.87	0.53
8:H:155:SER:HB2	8:H:156:PRO:HD2	1.91	0.53
9:I:1:MET:HE1	9:I:50:GLY:HA3	1.90	0.53
10:J:19:ARG:HB3	11:K:63:ILE:HD11	1.91	0.53
11:K:212:HIS:CD2	11:K:216:LEU:HD13	2.44	0.53
11:K:406:GLU:OE1	14:R:49:GLN:HG2	2.09	0.53
13:P:281:ARG:HD2	13:P:350:TYR:CE2	2.44	0.53
13:P:293:LYS:HG2	14:R:175:ALA:HA	1.90	0.53
13:P:316:GLU:O	14:R:163:LEU:HG	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:i:15:GLU:HG2	9:i:89:LYS:HD2	1.90	0.53
9:i:111:GLU:HG3	9:i:113:LYS:HG3	1.90	0.53
2:B:60:VAL:HG13	9:i:179:ASN:CA	2.39	0.52
3:C:36:ASN:H	3:C:39:LEU:HB3	1.73	0.52
3:C:214:ILE:HD12	3:C:236:ILE:CD1	2.38	0.52
3:C:454:TYR:CE1	3:C:501:ILE:HG22	2.44	0.52
6:F:259:ASN:HD21	6:F:262:LEU:H	1.57	0.52
8:H:167:CYS:SG	8:H:285:CYS:N	2.81	0.52
8:H:178:LEU:CD1	8:H:287:VAL:HG11	2.39	0.52
8:H:303:GLU:O	8:H:307:GLY:N	2.42	0.52
8:H:320:VAL:HG12	8:H:332:ASN:HD22	1.75	0.52
8:H:446:ASP:HA	8:H:699:ILE:CD1	2.39	0.52
8:H:579:GLN:HB3	8:H:685:LYS:NZ	2.24	0.52
8:H:765:LEU:HD22	8:H:836:MET:HB3	1.91	0.52
9:I:42:ILE:HB	9:I:43:PRO:HD3	1.90	0.52
12:L:153:LEU:O	12:L:157:LEU:HG	2.09	0.52
12:L:590:PHE:O	12:L:594:SER:HB3	2.09	0.52
12:L:604:MET:HE2	12:L:607:PHE:CE1	2.44	0.52
13:P:293:LYS:HZ3	14:R:178:PHE:HB3	1.73	0.52
14:Q:64:TYR:CE1	14:Q:104:ASN:HA	2.43	0.52
14:Q:93:PHE:O	14:Q:96:THR:OG1	2.22	0.52
14:Q:105:GLU:O	14:Q:109:PHE:HD1	1.92	0.52
1:A:213:LEU:HD11	2:B:204:LYS:CD	2.38	0.52
3:C:60:ILE:HD12	3:C:63:GLN:OE1	2.09	0.52
3:C:106:VAL:C	3:C:127:LEU:HD13	2.35	0.52
5:E:38:ARG:O	5:E:39:VAL:C	2.50	0.52
6:F:91:LYS:C	6:F:109:ARG:HH12	2.14	0.52
6:F:265:LEU:HD11	6:F:267:LEU:CD1	2.40	0.52
7:G:37:SER:HB3	7:G:40:PHE:CD2	2.45	0.52
8:H:106:VAL:O	8:H:108:LYS:HG2	2.09	0.52
8:H:308:ARG:HD3	8:H:310:TYR:OH	2.09	0.52
8:H:391:GLN:O	8:H:395:GLN:HG3	2.09	0.52
10:J:349:ILE:HG22	10:J:349:ILE:O	2.09	0.52
10:J:355:LYS:CA	14:Q:38:PHE:CD1	2.92	0.52
11:K:116:ILE:HG21	11:K:152:LEU:CA	2.39	0.52
11:K:226:LEU:HA	11:K:229:LYS:HD2	1.91	0.52
11:K:418:ARG:CA	11:K:419:LYS:CB	2.74	0.52
11:K:427:LYS:HG2	14:Q:161:GLU:O	2.09	0.52
12:L:73:HIS:O	12:L:77:ARG:N	2.35	0.52
12:L:130:LEU:HD12	12:L:534:GLN:CD	2.33	0.52
12:L:420:SER:O	12:L:424:SER:HB2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:604:MET:HE1	12:L:737:LYS:HB2	1.89	0.52
12:L:672:GLU:HG2	12:L:673:ASP:H	1.74	0.52
12:L:798:LEU:HD12	12:L:799:GLN:N	2.24	0.52
13:P:270:MET:HE2	13:P:275:PHE:O	2.09	0.52
15:S:12:ASN:HB3	15:S:15:ASP:OD2	2.08	0.52
9:i:45:ILE:HG21	9:i:80:PHE:CZ	2.44	0.52
9:i:58:VAL:CA	9:i:62:ILE:HD12	2.38	0.52
2:B:148:GLU:HB3	4:D:141:ARG:HH11	1.75	0.52
2:B:155:ILE:HG22	4:D:152:ARG:HH22	1.72	0.52
6:F:325:GLY:HA2	6:F:354:ASN:HB2	1.89	0.52
7:G:185:LYS:HE3	10:J:361:LYS:HG2	1.90	0.52
9:I:3:ASP:HB3	9:I:6:THR:CG2	2.39	0.52
10:J:295:LYS:HE3	11:K:358:GLU:OE2	2.09	0.52
11:K:54:ILE:O	11:K:58:GLN:HG3	2.09	0.52
13:P:144:LEU:HD21	13:P:364:TYR:HD1	1.74	0.52
9:i:159:TYR:N	9:i:162:ARG:HH21	2.07	0.52
3:C:109:LYS:O	3:C:130:LEU:HD12	2.10	0.52
3:C:239:ASP:HB3	3:C:242:ILE:CD1	2.38	0.52
3:C:375:TRP:HA	3:C:390:ARG:HH22	1.72	0.52
4:D:150:ASP:OD1	8:H:69:LYS:HD2	2.10	0.52
7:G:72:MET:HE3	7:G:104:TYR:CG	2.45	0.52
7:G:221:LYS:NZ	7:G:269:ASN:OD1	2.35	0.52
8:H:124:LEU:CD2	8:H:177:LEU:HG	2.40	0.52
8:H:441:PRO:HG3	8:H:449:VAL:CG1	2.39	0.52
8:H:494:GLU:HB2	8:H:495:PRO:HD2	1.92	0.52
8:H:545:THR:HG1	8:H:563:PHE:HE2	1.51	0.52
8:H:556:VAL:HG12	8:H:559:ARG:HE	1.72	0.52
11:K:64:ILE:HG21	11:K:195:LYS:HG3	1.91	0.52
12:L:195:ARG:NH1	12:L:199:GLU:OE2	2.42	0.52
12:L:594:SER:C	12:L:713:ARG:HD3	2.34	0.52
9:i:10:GLU:HA	9:i:13:LYS:CG	2.39	0.52
9:i:91:ARG:HB3	9:i:94:GLU:HG3	1.92	0.52
3:C:371:GLU:HG3	3:C:394:LEU:CD1	2.40	0.52
5:E:55:MET:HE1	12:L:266:MET:HG2	1.91	0.52
6:F:14:LYS:HB3	6:F:15:PRO:CD	2.34	0.52
7:G:55:GLU:HG2	7:G:82:HIS:O	2.09	0.52
7:G:81:LEU:HD23	7:G:108:SER:HB2	1.90	0.52
7:G:238:THR:HB	7:G:294:ASP:OD2	2.09	0.52
8:H:473:ARG:NH1	8:H:477:LEU:HD23	2.24	0.52
8:H:483:TYR:HE2	8:H:490:ILE:CD1	2.23	0.52
8:H:619:VAL:CG2	8:H:639:ARG:HH21	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:787:LEU:HB2	8:H:811:ILE:CG2	2.39	0.52
9:I:82:PRO:CB	9:I:86:LYS:HZ1	2.22	0.52
10:J:155:LEU:HD12	11:K:216:LEU:CD2	2.39	0.52
13:P:132:ARG:O	13:P:137:LEU:HB2	2.09	0.52
13:P:176:ASN:OD1	13:P:177:LEU:N	2.42	0.52
13:P:281:ARG:HD2	13:P:350:TYR:CZ	2.45	0.52
14:R:70:LEU:HB2	14:R:103:ILE:HD11	1.92	0.52
15:S:154:LEU:HD23	15:S:157:MET:HE3	1.91	0.52
9:i:10:GLU:OE1	9:i:13:LYS:HD2	2.09	0.52
9:i:17:PHE:CD2	9:i:178:TYR:HA	2.43	0.52
2:B:55:LYS:H	5:E:36:LYS:HG3	1.65	0.52
2:B:108:MET:HA	2:B:111:LYS:HB3	1.91	0.52
3:C:135:LEU:HB3	3:C:140:ILE:HD13	1.91	0.52
3:C:313:TYR:HB2	3:C:453:PHE:CD1	2.45	0.52
3:C:324:MET:HE3	3:C:328:VAL:HG21	1.90	0.52
5:E:74:ILE:O	5:E:78:GLU:OE1	2.27	0.52
6:F:319:LEU:C	6:F:347:LEU:HD12	2.35	0.52
6:F:324:SER:HB2	6:F:353:ALA:HB3	1.91	0.52
8:H:98:LEU:O	8:H:109:PHE:HA	2.10	0.52
8:H:535:ILE:HD11	8:H:549:TYR:C	2.34	0.52
8:H:784:ARG:O	8:H:788:GLU:HG2	2.10	0.52
10:J:36:LEU:HD22	11:K:55:VAL:HG11	1.92	0.52
10:J:165:GLU:OE2	10:J:169:LEU:HD11	2.10	0.52
11:K:324:LYS:CA	11:K:327:LYS:HE3	2.34	0.52
12:L:247:TYR:HB2	9:i:163:LEU:HD13	1.91	0.52
12:L:426:ARG:NE	12:L:437:GLU:OE1	2.42	0.52
12:L:749:ARG:HH21	12:L:777:THR:CG2	2.21	0.52
13:P:185:ILE:HD12	13:P:211:PHE:CE2	2.44	0.52
13:P:262:ASN:OD1	14:R:162:LEU:HG	2.10	0.52
14:R:25:GLU:OE1	14:R:25:GLU:N	2.41	0.52
15:S:40:GLN:CG	15:s:39:GLU:HG2	2.32	0.52
9:i:25:ALA:CB	9:i:45:ILE:HG23	2.38	0.52
1:A:91:ASN:N	1:A:94:MET:HE3	2.25	0.52
1:A:155:ASN:HA	1:A:158:GLU:CG	2.39	0.52
2:B:44:LYS:HG3	4:D:41:ARG:CZ	2.40	0.52
2:B:65:LYS:HB2	5:E:44:THR:CB	2.37	0.52
2:B:106:ILE:HA	2:B:109:LEU:HB2	1.90	0.52
3:C:111:LEU:HD23	3:C:133:LEU:HD12	1.92	0.52
3:C:213:ILE:O	3:C:217:ILE:N	2.42	0.52
3:C:264:GLU:HB3	3:C:268:ARG:NH1	2.25	0.52
3:C:276:ASP:HA	3:C:278:ARG:CZ	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:286:LYS:CE	3:C:314:CYS:HA	2.40	0.52
3:C:419:ILE:CG2	8:H:231:ASN:HB3	2.38	0.52
6:F:141:ILE:HG21	6:F:162:LEU:CD2	2.38	0.52
6:F:200:ILE:HG12	6:F:209:LEU:CD1	2.40	0.52
6:F:253:ALA:HB2	6:F:279:TYR:HB3	1.91	0.52
6:F:333:ALA:O	6:F:336:LEU:HG	2.09	0.52
7:G:58:HIS:C	7:G:59:LEU:HD23	2.34	0.52
7:G:151:PHE:CE1	7:G:179:ILE:HD11	2.45	0.52
7:G:236:PHE:HB3	7:G:288:ASN:HD21	1.75	0.52
7:G:249:ASN:ND2	15:S:69:ASP:OD2	2.42	0.52
8:H:115:ARG:HB3	8:H:156:PRO:CG	2.39	0.52
8:H:519:HIS:HA	8:H:541:ILE:CD1	2.36	0.52
11:K:73:ILE:HG22	11:K:77:LEU:CD1	2.40	0.52
12:L:67:CYS:HB3	12:L:80:LEU:HD11	1.92	0.52
12:L:291:LYS:O	12:L:295:GLU:OE1	2.28	0.52
12:L:709:GLU:HB3	12:L:712:ASP:OD2	2.09	0.52
15:S:25:LEU:HD11	15:s:22:GLU:HG3	1.91	0.52
15:S:85:MET:SD	15:S:88:GLU:OE1	2.68	0.52
1:A:91:ASN:HA	1:A:94:MET:SD	2.50	0.52
1:A:208:LYS:HA	1:A:211:GLU:OE2	2.10	0.52
2:B:156:LEU:HA	2:B:159:GLU:OE1	2.10	0.52
3:C:153:ASN:HB3	5:E:202:LYS:HZ3	1.74	0.52
3:C:369:LYS:O	3:C:373:ARG:HG3	2.10	0.52
3:C:404:LYS:HE2	3:C:404:LYS:HA	1.92	0.52
4:D:267:LEU:HD21	5:E:252:ILE:HG22	1.91	0.52
6:F:239:LEU:N	6:F:266:ASN:O	2.43	0.52
7:G:165:MET:O	14:Q:28:GLU:HB3	2.10	0.52
7:G:281:LEU:HB3	7:G:309:TYR:H	1.75	0.52
7:G:302:LEU:HD22	7:G:308:ILE:CD1	2.39	0.52
8:H:135:SER:HB3	8:H:307:GLY:HA3	1.91	0.52
8:H:454:ILE:HD12	8:H:465:GLU:O	2.09	0.52
8:H:831:GLN:HA	8:H:834:GLU:OE2	2.08	0.52
11:K:85:PHE:CE2	11:K:110:LEU:HD13	2.45	0.52
11:K:238:THR:O	11:K:242:GLU:HG3	2.10	0.52
12:L:406:SER:HB3	12:L:409:VAL:HG23	1.90	0.52
12:L:545:ALA:HA	12:L:571:LYS:HB3	1.92	0.52
12:L:640:ILE:HB	12:L:644:TYR:CD2	2.45	0.52
12:L:709:GLU:HG2	12:L:710:PRO:HD2	1.91	0.52
12:L:748:THR:O	12:L:752:LEU:HG	2.09	0.52
13:P:295:VAL:CG1	14:R:180:LYS:HE3	2.37	0.52
13:P:315:LEU:H	14:R:160:LYS:HA	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:P:321:ASP:H	14:R:168:ASN:N	2.07	0.52
15:S:103:LYS:HE2	15:s:104:ASP:N	2.25	0.52
1:A:121:ARG:O	1:A:125:GLU:HG3	2.09	0.52
1:A:122:LYS:HG3	2:B:113:LEU:HD11	1.92	0.52
3:C:184:ASP:C	3:C:185:ARG:HD2	2.35	0.52
6:F:325:GLY:N	6:F:354:ASN:HB2	2.24	0.52
7:G:239:THR:HG22	7:G:241:GLY:H	1.75	0.52
8:H:183:TYR:CE2	8:H:294:ARG:HG2	2.45	0.52
8:H:474:SER:HB3	8:H:700:ARG:CB	2.40	0.52
8:H:524:LYS:HE2	8:H:536:GLU:OE2	2.10	0.52
10:J:184:GLN:HA	11:K:247:PHE:CZ	2.44	0.52
10:J:213:GLU:OE1	10:J:214:LYS:HD3	2.09	0.52
10:J:256:ARG:HD2	11:K:323:LEU:HD12	1.89	0.52
11:K:14:ARG:CD	11:K:15:PRO:HD2	2.40	0.52
12:L:244:TRP:CH2	9:i:140:PHE:HA	2.45	0.52
12:L:252:LEU:O	12:L:256:ILE:HG12	2.10	0.52
12:L:335:GLU:HG2	12:L:345:PRO:CD	2.40	0.52
13:P:292:ILE:HG23	14:R:170:TRP:CH2	2.45	0.52
13:P:316:GLU:HA	14:R:162:LEU:HB2	1.91	0.52
15:S:110:LYS:CD	15:s:110:LYS:HB2	2.37	0.52
15:S:160:ARG:O	15:S:164:VAL:HG23	2.10	0.52
1:A:37:LYS:HA	1:A:40:ARG:CG	2.39	0.52
1:A:94:MET:HE1	2:B:84:LEU:CD1	2.31	0.52
1:A:166:PHE:HB3	2:B:160:PHE:CZ	2.45	0.52
6:F:68:MET:O	6:F:72:ILE:HB	2.09	0.52
6:F:115:LEU:CG	6:F:151:GLN:HE22	2.23	0.52
6:F:383:ASN:HB2	6:F:409:GLU:OE2	2.10	0.52
7:G:81:LEU:HD22	7:G:110:THR:HG23	1.92	0.52
7:G:110:THR:HA	7:G:140:PRO:HG3	1.92	0.52
7:G:117:MET:HG3	7:G:147:ASP:CB	2.39	0.52
8:H:47:LEU:CD1	8:H:151:LEU:HD22	2.39	0.52
8:H:197:THR:HG21	8:H:282:ARG:HH11	1.74	0.52
8:H:532:ASP:O	8:H:552:ARG:HD2	2.10	0.52
8:H:603:ALA:O	8:H:623:TYR:HD2	1.93	0.52
9:I:2:TYR:OH	9:I:89:LYS:HE3	2.10	0.52
12:L:17:LEU:HD23	12:L:416:ILE:CD1	2.40	0.52
12:L:358:ASP:OD1	12:L:359:PRO:CD	2.57	0.52
12:L:809:SER:HA	12:L:812:ILE:CG1	2.40	0.52
13:P:144:LEU:HD22	13:P:362:GLN:NE2	2.13	0.52
13:P:325:ILE:HG12	14:R:171:SER:OG	2.10	0.52
13:P:325:ILE:HG22	13:P:326:GLU:N	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:S:139:ILE:HG12	15:s:139:ILE:HG12	1.91	0.52
9:i:2:TYR:CG	9:i:89:LYS:HA	2.44	0.52
1:A:78:TRP:CH2	1:A:97:GLN:HG3	2.44	0.51
1:A:203:GLU:O	1:A:207:THR:HG23	2.09	0.51
1:A:245:LEU:O	1:A:249:ILE:HG23	2.10	0.51
1:A:260:LEU:HA	1:A:263:LYS:HZ2	1.75	0.51
2:B:47:ARG:HA	2:B:50:LEU:HG	1.91	0.51
2:B:147:GLU:OE1	2:B:151:ARG:NH2	2.43	0.51
3:C:96:ILE:O	3:C:116:ASN:HB3	2.08	0.51
3:C:111:LEU:HD23	3:C:133:LEU:CD1	2.40	0.51
7:G:112:GLU:HB3	7:G:142:LEU:CD1	2.40	0.51
11:K:172:ILE:HG22	11:K:176:MET:HE1	1.92	0.51
12:L:79:LEU:HD13	12:L:418:LYS:CE	2.40	0.51
12:L:253:VAL:HG11	9:i:170:HIS:HE1	1.75	0.51
12:L:497:GLY:C	12:L:655:ASN:HD22	2.18	0.51
12:L:633:LEU:HD12	12:L:669:ILE:HD11	1.92	0.51
12:L:706:LYS:HE2	12:L:706:LYS:HA	1.91	0.51
12:L:728:GLN:OE1	12:L:835:VAL:HG11	2.10	0.51
12:L:832:PHE:CE1	12:L:836:VAL:HG21	2.45	0.51
13:P:320:GLN:HG2	14:R:163:LEU:CA	2.33	0.51
14:Q:69:GLU:O	14:Q:72:GLU:HB2	2.10	0.51
1:A:141:ILE:HD11	2:B:134:LEU:HD22	1.93	0.51
2:B:50:LEU:HD12	4:D:44:ALA:CB	2.40	0.51
2:B:59:LYS:HA	5:E:40:ASN:CG	2.35	0.51
3:C:286:LYS:HA	3:C:286:LYS:CE	2.38	0.51
3:C:367:GLU:O	3:C:370:VAL:HG22	2.10	0.51
6:F:235:ILE:O	6:F:262:LEU:HD12	2.09	0.51
6:F:430:SER:N	6:F:433:ASP:HB2	2.25	0.51
7:G:39:LEU:HB3	7:G:59:LEU:CD2	2.30	0.51
7:G:271:CYS:HB3	7:G:275:LYS:HE3	1.92	0.51
7:G:290:ILE:HD12	7:G:314:SER:H	1.75	0.51
8:H:13:ILE:HB	8:H:14:GLU:HG3	1.92	0.51
8:H:246:THR:HG22	8:H:250:LYS:HE3	1.92	0.51
8:H:607:ILE:HG23	8:H:621:VAL:HG13	1.91	0.51
8:H:776:ILE:HG21	8:H:822:ALA:CB	2.39	0.51
9:I:66:ILE:HB	9:I:75:ILE:HD12	1.93	0.51
10:J:11:ILE:HG23	10:J:14:ARG:NH1	2.24	0.51
10:J:309:ASP:HB2	11:K:373:PHE:CZ	2.45	0.51
11:K:61:LEU:HD23	11:K:64:ILE:CD1	2.39	0.51
12:L:236:ALA:HB1	9:i:104:ALA:HB1	1.92	0.51
12:L:290:MET:O	12:L:293:ILE:HB	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:607:PHE:CE2	12:L:715:VAL:HG11	2.45	0.51
12:L:675:GLU:HB3	12:L:725:ASP:HB3	1.91	0.51
13:P:320:GLN:HB2	14:R:165:THR:H	1.75	0.51
15:S:50:GLU:HA	15:s:53:LEU:CD1	2.40	0.51
15:S:110:LYS:HG3	15:s:110:LYS:HD2	1.92	0.51
1:A:195:TYR:HE2	2:B:185:VAL:CG1	2.24	0.51
2:B:56:ASP:N	5:E:36:LYS:HB3	2.24	0.51
6:F:137:ALA:HB1	6:F:141:ILE:HD11	1.91	0.51
6:F:203:CYS:H	6:F:231:ASN:ND2	2.08	0.51
8:H:433:LYS:HA	8:H:458:TYR:HA	1.92	0.51
9:I:132:PHE:HZ	12:L:189:GLN:CA	2.20	0.51
12:L:2:SER:OG	12:L:290:MET:SD	2.64	0.51
12:L:21:VAL:HG21	12:L:413:GLN:CD	2.36	0.51
12:L:494:LYS:HD2	12:L:498:ASP:OD2	2.10	0.51
12:L:580:ILE:HA	12:L:583:ILE:HG22	1.91	0.51
13:P:153:TYR:HE2	13:P:184:HIS:HB3	1.74	0.51
13:P:165:ASP:CB	14:R:21:LYS:HD3	2.41	0.51
2:B:57:GLU:C	5:E:38:ARG:N	2.68	0.51
3:C:202:THR:HB	3:C:209:TYR:OH	2.10	0.51
3:C:372:PHE:CE1	3:C:563:LYS:HG3	2.45	0.51
6:F:65:ILE:N	6:F:68:MET:HE3	2.26	0.51
6:F:250:ARG:HD2	6:F:251:ARG:HH11	1.76	0.51
7:G:19:LEU:HD21	7:G:23:ARG:NH2	2.25	0.51
7:G:200:LYS:HD3	7:G:201:LEU:H	1.76	0.51
8:H:184:ASP:CB	8:H:293:LYS:HB2	2.34	0.51
8:H:436:VAL:HG22	8:H:452:ILE:HG13	1.92	0.51
8:H:580:ASP:HB3	8:H:584:GLY:O	2.10	0.51
9:I:22:ILE:HD13	9:I:84:MET:HB3	1.91	0.51
10:J:11:ILE:HG23	10:J:14:ARG:HH11	1.76	0.51
10:J:112:VAL:HG13	11:K:202:LEU:HD12	1.91	0.51
11:K:73:ILE:HA	11:K:170:PHE:CE1	2.45	0.51
12:L:493:LYS:HZ3	12:L:705:GLY:HA2	1.75	0.51
12:L:498:ASP:HB3	12:L:502:LYS:CE	2.36	0.51
12:L:755:THR:O	12:L:758:GLU:HG2	2.10	0.51
13:P:177:LEU:C	13:P:249:LYS:HZ3	2.17	0.51
13:P:279:ALA:CB	13:P:353:LEU:HD13	2.11	0.51
14:Q:74:LEU:HA	14:Q:79:ILE:HD12	1.91	0.51
9:i:2:TYR:HB3	9:i:88:LEU:O	2.10	0.51
9:i:9:THR:O	9:i:13:LYS:HE3	2.09	0.51
3:C:48:ASN:CG	3:C:53:LYS:HB3	2.35	0.51
3:C:150:THR:HG22	3:C:187:GLU:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:378:GLU:CA	3:C:381:ASN:HB2	2.38	0.51
3:C:550:ILE:HA	3:C:553:ILE:HG12	1.93	0.51
5:E:186:TYR:O	5:E:190:LEU:HD13	2.11	0.51
6:F:217:ASP:HA	6:F:243:LYS:O	2.11	0.51
6:F:255:PHE:CE1	6:F:259:ASN:HB2	2.45	0.51
7:G:72:MET:HG2	7:G:101:ILE:N	2.24	0.51
7:G:236:PHE:HB3	7:G:288:ASN:OD1	2.10	0.51
8:H:155:SER:O	8:H:159:VAL:HG23	2.10	0.51
9:I:63:LEU:HB2	9:I:64:PRO:HD3	1.92	0.51
11:K:116:ILE:HG21	11:K:152:LEU:HA	1.92	0.51
12:L:153:LEU:HD11	12:L:631:ILE:HG12	1.93	0.51
12:L:166:PRO:HB2	12:L:523:ILE:HA	1.92	0.51
12:L:325:ARG:HH21	12:L:464:GLU:CD	2.17	0.51
12:L:533:GLU:HB2	12:L:748:THR:HG22	1.92	0.51
13:P:267:ARG:HB2	13:P:310:MET:SD	2.51	0.51
13:P:293:LYS:CG	14:R:176:ASN:N	2.73	0.51
14:Q:31:LYS:HE2	14:Q:110:ILE:CG2	2.40	0.51
14:Q:159:PHE:O	14:Q:163:LEU:HG	2.09	0.51
14:Q:178:PHE:O	14:Q:182:ILE:HG12	2.11	0.51
14:R:44:GLU:HA	14:R:47:LYS:CE	2.40	0.51
14:R:54:PHE:HA	14:R:73:LEU:HD12	1.92	0.51
14:R:73:LEU:HD21	14:R:108:VAL:HG11	1.93	0.51
9:i:51:GLN:NE2	9:i:88:LEU:HD23	2.25	0.51
15:s:105:GLU:HG2	15:s:109:LYS:HZ3	1.76	0.51
1:A:141:ILE:HD11	2:B:134:LEU:CD2	2.41	0.51
2:B:57:GLU:C	5:E:38:ARG:H	2.19	0.51
3:C:83:LEU:HD13	3:C:85:ARG:CZ	2.40	0.51
3:C:236:ILE:CG2	3:C:242:ILE:HD13	2.21	0.51
3:C:297:ARG:HB3	3:C:500:MET:CE	2.39	0.51
4:D:113:HIS:C	4:D:115:LEU:N	2.67	0.51
6:F:20:LYS:HA	6:F:23:PHE:CD2	2.45	0.51
8:H:49:ARG:HD2	8:H:162:TRP:HB3	1.92	0.51
8:H:496:GLN:OE1	8:H:508:GLN:HG2	2.11	0.51
8:H:592:THR:HG22	8:H:594:LYS:NZ	2.25	0.51
8:H:616:LYS:NZ	8:H:620:ILE:HG13	2.24	0.51
10:J:32:LEU:HD21	10:J:113:LYS:HE2	1.93	0.51
10:J:175:GLN:OE1	10:J:178:LYS:NZ	2.40	0.51
10:J:302:LEU:HD11	11:K:369:LEU:HD12	1.90	0.51
11:K:204:THR:HG22	11:K:208:GLU:HB3	1.91	0.51
12:L:58:ILE:HG12	12:L:132:ILE:HD11	1.92	0.51
12:L:153:LEU:HD11	12:L:631:ILE:CG1	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:345:PRO:CB	12:L:465:LEU:HD21	2.27	0.51
13:P:297:PRO:HB2	13:P:337:PRO:O	2.10	0.51
13:P:317:LEU:HB2	14:R:162:LEU:CD1	2.39	0.51
15:s:61:ASP:O	15:s:64:PHE:HB3	2.10	0.51
15:s:62:LYS:HD2	15:s:65:LYS:CE	2.41	0.51
2:B:53:ARG:HA	5:E:36:LYS:HZ3	1.76	0.51
2:B:82:GLU:OE1	2:B:82:GLU:HA	2.11	0.51
3:C:64:LEU:H	3:C:85:ARG:NH2	2.02	0.51
3:C:317:ILE:HD11	3:C:449:GLU:CB	2.40	0.51
6:F:281:ALA:HB1	6:F:311:ASP:CB	2.33	0.51
6:F:317:THR:O	6:F:319:LEU:HG	2.10	0.51
7:G:47:ALA:HB1	7:G:52:GLU:O	2.11	0.51
8:H:190:GLY:O	8:H:283:VAL:HA	2.11	0.51
8:H:458:TYR:O	8:H:460:ARG:HD3	2.10	0.51
8:H:619:VAL:CG2	8:H:639:ARG:HE	2.24	0.51
9:I:101:LEU:HD13	12:L:191:TYR:CD2	2.45	0.51
12:L:450:GLU:O	12:L:454:LYS:HD3	2.09	0.51
13:P:142:ILE:HB	13:P:364:TYR:HE1	1.75	0.51
13:P:219:ARG:O	13:P:223:ASN:HB2	2.11	0.51
13:P:399:ASP:C	13:P:402:ARG:HG2	2.36	0.51
14:R:73:LEU:HD23	14:R:73:LEU:C	2.36	0.51
14:R:96:THR:O	14:R:96:THR:HG22	2.11	0.51
14:R:154:ILE:HG21	14:R:159:PHE:HD1	1.76	0.51
15:s:44:ASP:OD1	15:s:47:LYS:NZ	2.25	0.51
1:A:105:ILE:HG22	1:A:109:GLU:OE1	2.11	0.51
3:C:61:LEU:O	3:C:85:ARG:NH2	2.40	0.51
3:C:133:LEU:CD2	3:C:146:LEU:HD21	2.41	0.51
3:C:335:ILE:CG1	3:C:431:ALA:HB1	2.40	0.51
3:C:401:LEU:HD12	3:C:405:LEU:HG	1.92	0.51
3:C:565:LYS:HD3	3:C:565:LYS:N	2.25	0.51
6:F:31:VAL:HA	6:F:34:VAL:CG2	2.40	0.51
7:G:135:PRO:CD	7:G:136:GLN:H	2.13	0.51
7:G:191:LEU:HD12	7:G:219:ALA:CB	2.40	0.51
7:G:217:PHE:CE1	7:G:270:ILE:HG12	2.46	0.51
7:G:318:PRO:O	7:G:322:ILE:HG13	2.11	0.51
7:G:325:LYS:HG2	7:G:329:MET:CE	2.41	0.51
8:H:77:VAL:HG13	8:H:98:LEU:HD13	1.93	0.51
8:H:183:TYR:CG	8:H:294:ARG:HB3	2.46	0.51
8:H:293:LYS:O	8:H:296:VAL:HG23	2.11	0.51
8:H:790:LYS:HG2	8:H:808:ILE:CG1	2.41	0.51
10:J:181:ASP:O	10:J:185:LYS:HG2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:354:TRP:HA	10:J:355:LYS:HD2	1.91	0.51
11:K:82:ILE:O	11:K:114:ALA:HB2	2.11	0.51
12:L:217:ARG:O	12:L:221:LEU:HD23	2.11	0.51
12:L:368:LYS:HD3	12:L:372:GLU:CD	2.34	0.51
13:P:282:ILE:HB	14:R:174:GLN:CG	2.39	0.51
13:P:314:GLU:CB	14:R:179:LEU:HD21	2.36	0.51
15:s:125:LEU:HA	15:s:128:LYS:HZ3	1.76	0.51
1:A:36:LEU:HA	6:F:354:ASN:OD1	2.11	0.51
1:A:191:LEU:CA	1:A:194:GLN:HE21	2.19	0.51
3:C:472:GLN:HE21	3:C:476:LEU:HD23	1.75	0.51
7:G:198:LEU:HB2	14:Q:25:GLU:CG	2.24	0.51
7:G:281:LEU:HB2	7:G:309:TYR:CD2	2.46	0.51
8:H:49:ARG:HH12	8:H:164:LYS:C	2.19	0.51
8:H:109:PHE:CE2	8:H:111:CYS:HB2	2.46	0.51
8:H:456:GLN:N	8:H:462:LYS:O	2.33	0.51
8:H:459:LYS:HD2	8:H:461:LEU:HD12	1.92	0.51
8:H:586:VAL:HG12	8:H:587:GLN:H	1.76	0.51
9:I:111:GLU:HB3	9:I:113:LYS:NZ	2.26	0.51
10:J:19:ARG:HB3	11:K:63:ILE:CD1	2.39	0.51
10:J:120:MET:SD	10:J:121:ALA:N	2.84	0.51
11:K:76:TYR:HB3	11:K:173:ILE:HG22	1.92	0.51
12:L:10:TRP:O	12:L:10:TRP:HD1	1.93	0.51
12:L:153:LEU:HD11	12:L:631:ILE:CD1	2.41	0.51
12:L:448:VAL:O	12:L:452:GLN:HG3	2.11	0.51
12:L:495:PHE:CE1	12:L:702:PHE:HA	2.45	0.51
12:L:751:LEU:HA	12:L:754:LYS:NZ	2.24	0.51
13:P:124:LEU:HB2	13:P:231:ILE:HD13	1.93	0.51
13:P:336:ILE:HD12	13:P:338:TYR:OH	2.11	0.51
14:R:50:TYR:CE1	14:R:112:VAL:HG11	2.46	0.51
14:R:158:GLN:HG2	14:R:158:GLN:O	2.11	0.51
9:i:118:ILE:HG23	9:i:121:MET:CE	2.41	0.51
15:s:25:LEU:O	15:s:29:VAL:HG23	2.11	0.51
2:B:50:LEU:HB2	4:D:44:ALA:CB	2.41	0.51
3:C:153:ASN:HB3	5:E:202:LYS:NZ	2.26	0.51
3:C:166:GLU:HA	3:C:169:THR:HG23	1.93	0.51
5:E:249:LYS:O	5:E:252:ILE:HG12	2.10	0.51
6:F:287:ASN:HD21	6:F:290:LEU:HB2	1.76	0.51
6:F:293:LEU:HD11	6:F:295:LEU:HD21	1.92	0.51
7:G:43:LYS:HE3	7:G:54:ILE:HG12	1.93	0.51
8:H:474:SER:N	8:H:700:ARG:O	2.42	0.51
8:H:488:LYS:HE3	8:H:514:ILE:HG21	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:98:PRO:O	9:I:102:LEU:HD23	2.11	0.51
10:J:173:ARG:O	10:J:176:GLU:HG2	2.11	0.51
10:J:176:GLU:HA	10:J:179:GLU:OE1	2.11	0.51
10:J:204:ARG:O	10:J:208:LYS:HG2	2.11	0.51
10:J:319:ARG:HA	10:J:322:GLN:CD	2.36	0.51
11:K:411:ILE:HG23	14:Q:144:PRO:HB3	1.92	0.51
12:L:41:ARG:HD2	12:L:46:TRP:CE2	2.46	0.51
12:L:248:LYS:HE2	12:L:248:LYS:HA	1.92	0.51
13:P:135:ARG:HA	13:P:135:ARG:NH1	2.26	0.51
13:P:259:PRO:HG2	13:P:263:LYS:HB3	1.92	0.51
14:Q:104:ASN:OD1	14:Q:107:ALA:HB3	2.11	0.51
14:R:11:LEU:HG	14:R:11:LEU:O	2.11	0.51
14:R:65:ILE:HD12	14:R:70:LEU:HA	1.93	0.51
15:S:13:ASP:O	15:S:17:LEU:HD13	2.11	0.51
9:i:84:MET:HA	9:i:87:VAL:HB	1.93	0.51
2:B:65:LYS:NZ	2:B:66:LYS:HG3	2.27	0.50
3:C:344:VAL:O	3:C:348:GLU:OE1	2.29	0.50
6:F:32:GLU:HG3	6:F:36:GLN:NE2	2.25	0.50
6:F:78:TRP:CZ2	6:F:103:LYS:HD3	2.46	0.50
6:F:328:PHE:HB3	6:F:332:THR:HB	1.93	0.50
7:G:165:MET:O	7:G:165:MET:HG2	2.11	0.50
7:G:173:SER:HA	7:G:202:LYS:HB2	1.93	0.50
7:G:193:PHE:HE2	7:G:195:ASN:HB2	1.74	0.50
7:G:210:ASN:HA	7:G:236:PHE:CE1	2.46	0.50
9:I:132:PHE:CZ	12:L:189:GLN:HG2	2.46	0.50
10:J:223:GLN:HG3	10:J:227:TYR:CZ	2.46	0.50
10:J:292:THR:HA	10:J:295:LYS:HD2	1.92	0.50
12:L:62:LYS:NZ	12:L:129:CYS:O	2.43	0.50
12:L:85:GLU:O	12:L:89:VAL:HG23	2.10	0.50
12:L:134:ILE:CG2	12:L:589:ALA:HB1	2.39	0.50
13:P:207:ILE:HG13	13:P:240:ILE:CD1	2.31	0.50
14:R:129:PHE:CD1	14:R:196:VAL:HG22	2.45	0.50
15:S:122:GLU:HA	15:S:125:LEU:HD12	1.93	0.50
2:B:205:GLU:CG	2:B:209:ASN:HD21	2.22	0.50
3:C:103:ASP:O	3:C:106:VAL:HG13	2.11	0.50
3:C:465:GLU:HG2	3:C:494:LYS:HG2	1.94	0.50
6:F:52:ARG:HH22	6:F:72:ILE:HG13	1.76	0.50
6:F:222:ARG:HD3	6:F:247:GLN:CD	2.36	0.50
6:F:391:GLU:O	6:F:395:GLU:OE1	2.29	0.50
7:G:170:GLU:HB3	7:G:199:LYS:HD3	1.89	0.50
7:G:195:ASN:HB3	14:Q:27:ILE:C	2.37	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:630:ILE:O	8:H:632:PRO:HD3	2.10	0.50
10:J:228:GLU:HB3	10:J:232:LYS:CE	2.41	0.50
10:J:359:GLY:H	14:Q:105:GLU:CD	2.19	0.50
11:K:12:HIS:N	11:K:13:PRO:CD	2.74	0.50
12:L:157:LEU:O	12:L:161:THR:N	2.44	0.50
12:L:613:ARG:NH2	12:L:721:ASN:OD1	2.45	0.50
12:L:762:VAL:HG13	12:L:801:ILE:CG1	2.33	0.50
13:P:220:ILE:O	13:P:246:LEU:HD22	2.11	0.50
13:P:253:ILE:HG21	13:P:256:ILE:HD11	1.92	0.50
13:P:317:LEU:O	14:R:128:ALA:HB1	2.10	0.50
13:P:362:GLN:HA	14:R:169:ARG:NH2	2.25	0.50
9:i:58:VAL:CG2	9:i:62:ILE:HD12	2.39	0.50
15:s:44:ASP:HA	15:s:47:LYS:NZ	2.27	0.50
15:s:125:LEU:HA	15:s:128:LYS:NZ	2.26	0.50
2:B:53:ARG:CZ	5:E:35:LEU:HB3	2.40	0.50
3:C:102:ILE:HG23	3:C:124:LEU:HA	1.93	0.50
3:C:263:LYS:CB	3:C:266:MET:HE2	2.40	0.50
3:C:390:ARG:NH1	3:C:391:LEU:HD21	2.27	0.50
3:C:481:ASN:CB	3:C:484:ASP:HB2	2.31	0.50
4:D:230:GLU:O	4:D:234:GLU:OE1	2.30	0.50
6:F:124:PRO:O	6:F:128:GLN:HG2	2.12	0.50
6:F:216:ILE:O	6:F:242:ASN:HB3	2.11	0.50
7:G:248:ALA:HA	15:S:70:ARG:HD2	1.94	0.50
8:H:602:PRO:O	8:H:606:GLN:N	2.44	0.50
8:H:619:VAL:HG23	8:H:639:ARG:HE	1.76	0.50
11:K:33:LEU:HG	11:K:189:HIS:CD2	2.46	0.50
11:K:64:ILE:HG21	11:K:195:LYS:HB2	1.93	0.50
12:L:650:ILE:CD1	12:L:691:LEU:HG	2.41	0.50
13:P:155:GLU:HG2	13:P:234:PHE:CD1	2.46	0.50
13:P:158:VAL:HG21	13:P:234:PHE:HB3	1.92	0.50
13:P:177:LEU:HD11	13:P:355:LEU:CD2	2.40	0.50
1:A:5:GLN:OE1	1:A:173:LEU:HB2	2.12	0.50
1:A:144:MET:HB2	2:B:138:GLN:CD	2.36	0.50
3:C:110:TRP:HZ2	5:E:209:GLU:OE2	1.93	0.50
4:D:186:ASP:OD1	4:D:189:ARG:NH1	2.41	0.50
6:F:352:ILE:O	6:F:352:ILE:HG22	2.11	0.50
7:G:137:ILE:CG2	7:G:139:ILE:HG23	2.42	0.50
7:G:194:VAL:HG11	14:Q:31:LYS:HZ1	1.77	0.50
8:H:394:LEU:HD23	8:H:394:LEU:O	2.12	0.50
9:I:47:ARG:HD3	12:L:194:GLY:O	2.12	0.50
10:J:126:LEU:HD13	10:J:138:PHE:CZ	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:237:LYS:HE2	11:K:302:LEU:HD11	1.94	0.50
10:J:247:THR:O	10:J:251:VAL:HG23	2.11	0.50
11:K:172:ILE:HG22	11:K:176:MET:SD	2.51	0.50
11:K:200:LYS:O	11:K:200:LYS:HD2	2.11	0.50
11:K:246:LYS:HG3	11:K:249:LYS:CE	2.41	0.50
11:K:258:LEU:HD23	11:K:261:GLU:OE1	2.11	0.50
11:K:434:LYS:HZ1	14:Q:134:LYS:CG	2.24	0.50
12:L:81:LYS:HE3	12:L:141:GLU:OE1	2.11	0.50
12:L:414:GLU:HA	12:L:417:GLU:OE1	2.12	0.50
13:P:185:ILE:HD12	13:P:211:PHE:CD2	2.47	0.50
9:i:66:ILE:HG22	9:i:79:LYS:O	2.11	0.50
3:C:348:GLU:HG2	8:H:226:LEU:HD22	1.92	0.50
3:C:468:TYR:OH	3:C:488:ALA:HB1	2.11	0.50
4:D:183:MET:HE1	5:E:171:GLN:CG	2.42	0.50
6:F:31:VAL:HG13	6:F:55:ILE:CG1	2.29	0.50
6:F:255:PHE:CE2	6:F:262:LEU:HD22	2.46	0.50
7:G:74:SER:O	7:G:78:ILE:HG12	2.11	0.50
7:G:271:CYS:O	7:G:275:LYS:HG3	2.12	0.50
9:I:46:MET:HG3	9:I:84:MET:HE1	1.92	0.50
9:I:135:GLN:NE2	9:I:136:GLU:HG3	2.26	0.50
10:J:40:GLU:CG	11:K:55:VAL:HG22	2.38	0.50
10:J:231:GLN:HE22	11:K:291:HIS:HA	1.76	0.50
11:K:328:ARG:HG2	11:K:331:GLN:NE2	2.26	0.50
12:L:75:GLN:CD	12:L:440:LEU:HD13	2.37	0.50
12:L:120:VAL:HA	12:L:123:LEU:HD21	1.93	0.50
12:L:153:LEU:HD21	12:L:631:ILE:CD1	2.42	0.50
12:L:213:LYS:O	12:L:217:ARG:HG2	2.10	0.50
12:L:721:ASN:O	12:L:722:ARG:HD3	2.11	0.50
12:L:745:ASN:OD1	12:L:748:THR:OG1	2.30	0.50
12:L:794:THR:H	12:L:797:ARG:HB3	1.76	0.50
13:P:285:VAL:CG2	13:P:324:ALA:H	2.24	0.50
13:P:402:ARG:HA	13:P:405:GLN:HG2	1.93	0.50
14:R:73:LEU:HA	14:R:76:SER:OG	2.11	0.50
1:A:270:MET:HA	1:A:273:GLU:CG	2.42	0.50
3:C:302:LYS:HD2	3:C:305:GLN:HB3	1.94	0.50
3:C:302:LYS:NZ	3:C:304:ASN:HB2	2.25	0.50
3:C:505:LYS:HE2	3:C:509:ILE:HD11	1.93	0.50
4:D:118:ASN:OD1	4:D:122:GLN:NE2	2.44	0.50
5:E:51:MET:SD	12:L:266:MET:HE1	2.52	0.50
5:E:99:VAL:O	5:E:99:VAL:HG12	2.12	0.50
7:G:38:LYS:HE2	15:s:28:LYS:NZ	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:360:THR:OG1	8:H:364:ASN:OD1	2.29	0.50
8:H:642:MET:HE1	8:H:643:HIS:CD2	2.47	0.50
10:J:356:ASP:OD1	14:Q:38:PHE:CG	2.64	0.50
12:L:10:TRP:HZ3	12:L:71:LEU:CD2	2.24	0.50
12:L:90:ARG:HD2	12:L:409:VAL:HG22	1.94	0.50
12:L:426:ARG:NH2	12:L:439:GLU:HG3	2.27	0.50
12:L:738:LYS:HZ2	12:L:836:VAL:HB	1.75	0.50
13:P:333:PRO:HA	13:P:336:ILE:CG1	2.41	0.50
15:s:145:GLU:O	15:s:149:MET:HG3	2.11	0.50
1:A:8:LYS:NZ	1:A:170:ARG:HH11	2.09	0.50
1:A:90:LEU:HG	1:A:94:MET:HE2	1.94	0.50
1:A:228:MET:SD	2:B:226:GLN:NE2	2.85	0.50
2:B:40:LYS:HD2	2:B:40:LYS:N	2.25	0.50
2:B:127:HIS:CE1	2:B:131:ILE:HD11	2.47	0.50
2:B:236:MET:HA	2:B:239:LYS:HE3	1.94	0.50
3:C:106:VAL:CG1	3:C:126:LYS:HB3	2.42	0.50
3:C:136:PHE:CE2	3:C:159:ASN:HB2	2.47	0.50
3:C:288:GLU:O	3:C:291:LYS:N	2.44	0.50
3:C:472:GLN:NE2	3:C:476:LEU:HD23	2.27	0.50
6:F:111:MET:HE2	6:F:144:LEU:HD11	1.94	0.50
6:F:174:THR:HG23	6:F:185:SER:O	2.12	0.50
6:F:337:SER:HB2	6:F:368:GLY:HA3	1.93	0.50
6:F:378:LEU:HD12	6:F:379:ASP:N	2.22	0.50
7:G:21:LEU:CD1	7:G:78:ILE:HG13	2.41	0.50
7:G:39:LEU:HD12	7:G:59:LEU:HB3	1.93	0.50
7:G:178:ALA:CA	7:G:207:LEU:HD23	2.42	0.50
8:H:87:GLN:OE1	8:H:87:GLN:HA	2.11	0.50
8:H:475:ASP:O	8:H:476:LYS:HB2	2.12	0.50
8:H:556:VAL:HA	8:H:595:PHE:HA	1.94	0.50
8:H:598:ASN:OD1	8:H:599:PRO:HD2	2.11	0.50
10:J:302:LEU:HD13	11:K:366:VAL:HG22	1.94	0.50
11:K:292:LEU:O	11:K:295:LYS:HG2	2.11	0.50
12:L:123:LEU:HD12	12:L:125:LEU:HD23	1.92	0.50
12:L:493:LYS:CD	12:L:705:GLY:HA2	2.42	0.50
12:L:670:TYR:HE1	12:L:719:SER:HB3	1.77	0.50
12:L:827:LYS:HA	12:L:827:LYS:CE	2.31	0.50
13:P:264:ILE:H	14:R:160:LYS:CD	2.23	0.50
13:P:317:LEU:HB2	14:R:162:LEU:CD2	2.39	0.50
13:P:327:TYR:HA	14:R:173:GLU:OE1	2.12	0.50
14:Q:54:PHE:O	14:Q:58:ASP:N	2.36	0.50
14:Q:104:ASN:O	14:Q:108:VAL:HG23	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:R:65:ILE:CG1	14:R:103:ILE:HG13	2.42	0.50
14:R:70:LEU:HD21	14:R:111:ILE:HD13	1.94	0.50
9:i:118:ILE:O	9:i:121:MET:HG2	2.12	0.50
1:A:148:PHE:CD1	2:B:141:ARG:HB3	2.46	0.50
2:B:159:GLU:HB3	4:D:152:ARG:NE	2.26	0.50
3:C:141:GLU:OE2	3:C:161:ARG:HD2	2.12	0.50
3:C:260:GLN:O	3:C:264:GLU:HG2	2.12	0.50
3:C:286:LYS:HE2	3:C:314:CYS:CA	2.42	0.50
3:C:331:LYS:HG3	3:C:438:ILE:HD12	1.92	0.50
3:C:371:GLU:OE1	3:C:391:LEU:HD23	2.12	0.50
4:D:14:VAL:O	4:D:14:VAL:HG12	2.11	0.50
6:F:257:MET:HE1	6:F:282:GLN:HG2	1.94	0.50
6:F:288:LYS:O	6:F:317:THR:HG21	2.12	0.50
6:F:320:GLU:HG2	6:F:349:VAL:HG23	1.93	0.50
6:F:337:SER:HA	6:F:340:VAL:HG12	1.94	0.50
7:G:201:LEU:HD22	14:Q:24:LYS:NZ	2.27	0.50
7:G:292:LYS:CB	7:G:318:PRO:HG3	2.38	0.50
8:H:127:TYR:HA	8:H:130:CYS:SG	2.52	0.50
8:H:549:TYR:HB2	8:H:557:ILE:O	2.12	0.50
8:H:613:ASP:HB3	8:H:616:LYS:HD3	1.93	0.50
8:H:623:TYR:HB2	8:H:633:ILE:CB	2.42	0.50
9:I:1:MET:HE1	9:I:50:GLY:CA	2.42	0.50
10:J:198:LEU:HD13	11:K:261:GLU:C	2.37	0.50
10:J:354:TRP:HE3	14:Q:112:VAL:H	1.59	0.50
11:K:51:LYS:HB3	11:K:203:SER:HB2	1.94	0.50
12:L:110:LYS:HG3	12:L:110:LYS:O	2.12	0.50
12:L:465:LEU:CA	12:L:468:VAL:HG22	2.42	0.50
13:P:144:LEU:HD13	13:P:362:GLN:HG2	1.92	0.50
13:P:313:PHE:H	14:R:160:LYS:CE	2.23	0.50
1:A:39:GLU:OE2	6:F:297:LEU:HA	2.11	0.50
1:A:177:PHE:HE2	2:B:167:MET:HG3	1.77	0.50
3:C:89:LEU:HD23	3:C:90:GLN:N	2.27	0.50
6:F:321:LEU:CD1	6:F:323:VAL:HG13	2.41	0.50
6:F:369:PHE:CD2	6:F:412:LEU:HD13	2.47	0.50
6:F:438:LYS:HA	6:F:438:LYS:CE	2.41	0.50
7:G:144:LEU:HB3	7:G:169:LEU:HD21	1.92	0.50
7:G:201:LEU:CB	14:Q:24:LYS:HZ2	2.21	0.50
8:H:291:SER:HA	8:H:296:VAL:CB	2.41	0.50
8:H:407:TRP:CD1	8:H:408:PRO:HD3	2.47	0.50
8:H:698:GLU:CG	8:H:699:ILE:H	2.20	0.50
9:I:58:VAL:CA	9:I:62:ILE:HD12	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:62:ILE:O	9:I:66:ILE:HG12	2.12	0.50
12:L:149:ARG:CZ	12:L:631:ILE:HG13	2.41	0.50
12:L:541:GLN:HG2	12:L:573:PRO:HB3	1.93	0.50
13:P:128:ILE:HD13	13:P:221:ILE:CG2	2.42	0.50
14:Q:158:GLN:HG2	14:Q:162:LEU:HD13	1.94	0.50
15:S:121:TYR:CD1	15:s:121:TYR:HB3	2.47	0.50
1:A:116:GLU:HB3	1:A:120:LYS:NZ	2.27	0.49
1:A:208:LYS:HA	1:A:211:GLU:HG2	1.93	0.49
1:A:226:ILE:HD11	5:E:211:ARG:CZ	2.42	0.49
2:B:63:PHE:CE2	9:i:17:PHE:HA	2.47	0.49
2:B:244:THR:O	2:B:248:VAL:HG23	2.12	0.49
3:C:103:ASP:HB2	3:C:126:LYS:CE	2.39	0.49
3:C:192:GLN:HB2	5:E:199:LEU:HD12	1.94	0.49
3:C:543:ARG:HH22	10:J:255:LEU:CA	2.24	0.49
6:F:86:TRP:CD2	6:F:109:ARG:HD3	2.47	0.49
6:F:91:LYS:H	6:F:109:ARG:HH22	1.59	0.49
7:G:88:LEU:CD2	7:G:91:VAL:HG11	2.33	0.49
7:G:169:LEU:CD2	7:G:172:LEU:HB2	2.42	0.49
7:G:244:GLN:O	7:G:246:PRO:HD3	2.12	0.49
8:H:137:PHE:O	8:H:423:PRO:HG3	2.11	0.49
8:H:291:SER:HA	8:H:296:VAL:CG1	2.42	0.49
8:H:521:ARG:CZ	8:H:523:ILE:HD11	2.42	0.49
8:H:604:ASN:OD1	8:H:626:ASN:ND2	2.45	0.49
9:I:51:GLN:OE1	9:I:93:TYR:N	2.38	0.49
9:I:143:PHE:HE1	9:I:147:LYS:HE2	1.77	0.49
11:K:73:ILE:HA	11:K:170:PHE:HE1	1.77	0.49
12:L:254:GLN:HA	12:L:257:ARG:HH11	1.76	0.49
12:L:633:LEU:HB2	12:L:669:ILE:HD12	1.94	0.49
13:P:251:LEU:HD21	13:P:327:TYR:HB3	1.93	0.49
14:R:103:ILE:HB	14:R:107:ALA:HB3	1.93	0.49
15:S:61:ASP:HB2	15:s:60:LEU:HD21	1.93	0.49
15:S:154:LEU:HD23	15:S:157:MET:HE1	1.93	0.49
2:B:59:LYS:H	5:E:36:LYS:C	2.14	0.49
2:B:63:PHE:HE2	9:i:17:PHE:HA	1.78	0.49
2:B:165:GLU:HB3	2:B:169:LYS:HE3	1.94	0.49
2:B:178:LEU:HD13	4:D:170:PHE:CE2	2.47	0.49
6:F:31:VAL:CA	6:F:34:VAL:HG22	2.42	0.49
6:F:35:SER:HB2	6:F:59:ILE:HG12	1.93	0.49
6:F:63:LEU:HG	6:F:64:ASP:N	2.28	0.49
6:F:285:LYS:HG3	6:F:314:LEU:HB2	1.93	0.49
7:G:24:GLN:CD	7:G:27:LYS:HD3	2.37	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:107:LYS:HE3	7:G:108:SER:HB3	1.93	0.49
7:G:179:ILE:H	7:G:206:ASN:CG	2.20	0.49
8:H:191:LYS:HG3	8:H:319:CYS:SG	2.52	0.49
8:H:193:PRO:CG	8:H:316:PRO:HB2	2.42	0.49
8:H:615:ILE:H	8:H:615:ILE:HD12	1.75	0.49
9:I:35:GLY:O	9:I:76:LYS:HA	2.12	0.49
10:J:129:MET:O	10:J:133:ASN:N	2.45	0.49
11:K:433:LYS:NZ	14:Q:166:LEU:HD22	2.27	0.49
12:L:754:LYS:HD3	12:L:770:ILE:HD13	1.95	0.49
12:L:828:GLU:HA	12:L:831:LYS:HE2	1.93	0.49
13:P:188:LYS:HA	13:P:239:GLN:CA	2.41	0.49
13:P:314:GLU:HB2	14:R:179:LEU:CD1	2.42	0.49
9:i:26:PHE:HZ	9:i:75:ILE:O	1.95	0.49
1:A:112:ARG:O	1:A:116:GLU:HG3	2.12	0.49
1:A:239:PHE:HD2	1:A:242:MET:HE1	1.77	0.49
3:C:409:GLU:O	3:C:413:VAL:HG23	2.12	0.49
6:F:72:ILE:O	6:F:78:TRP:HZ2	1.95	0.49
6:F:293:LEU:HD11	6:F:295:LEU:HD11	1.93	0.49
7:G:146:LEU:C	7:G:149:ASN:HD22	2.20	0.49
8:H:66:ASN:HB3	8:H:70:GLU:HB3	1.94	0.49
10:J:152:LEU:HD22	11:K:212:HIS:NE2	2.27	0.49
11:K:414:PHE:HD1	14:R:55:ALA:CB	2.25	0.49
11:K:418:ARG:CG	11:K:419:LYS:HB2	2.42	0.49
12:L:146:LEU:HD13	12:L:629:ASN:HB3	1.94	0.49
12:L:307:ASN:O	12:L:311:LEU:HD13	2.12	0.49
12:L:617:LYS:HE3	12:L:618:THR:OG1	2.12	0.49
13:P:279:ALA:HB3	13:P:328:TYR:HB2	1.93	0.49
13:P:292:ILE:HG23	14:R:170:TRP:CZ3	2.47	0.49
14:Q:5:GLY:HA3	14:Q:6:LYS:HB2	1.93	0.49
14:Q:37:ASP:C	14:Q:40:LYS:H	2.21	0.49
1:A:43:LYS:HZ1	1:A:46:ARG:NH2	2.10	0.49
3:C:273:LYS:HE2	3:C:329:ILE:CD1	2.38	0.49
6:F:5:LYS:HD3	6:F:18:PHE:CZ	2.47	0.49
6:F:84:ASN:O	6:F:84:ASN:ND2	2.45	0.49
8:H:44:ASN:HB3	8:H:47:LEU:HD12	1.93	0.49
8:H:78:ILE:HG23	8:H:82:ARG:NH1	2.26	0.49
8:H:138:VAL:CA	8:H:423:PRO:HG3	2.35	0.49
8:H:147:ASN:HB2	8:H:281:GLN:O	2.13	0.49
8:H:490:ILE:HG23	8:H:514:ILE:CG1	2.43	0.49
9:I:114:GLY:HA2	9:I:156:TYR:HE1	1.78	0.49
10:J:13:LEU:HB3	10:J:127:ILE:HD11	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:226:MET:O	10:J:230:GLU:HG3	2.13	0.49
11:K:282:ASN:O	11:K:286:GLN:OE1	2.31	0.49
11:K:434:LYS:HE2	14:Q:131:LEU:HD22	1.94	0.49
12:L:569:SER:O	12:L:572:MET:HG2	2.12	0.49
13:P:150:SER:HB3	13:P:245:ILE:HG13	1.95	0.49
13:P:262:ASN:C	14:R:161:GLU:H	2.21	0.49
14:R:159:PHE:CD1	14:R:190:ILE:HG21	2.47	0.49
3:C:77:ILE:HD11	3:C:80:LEU:CD1	2.41	0.49
3:C:285:LEU:CD2	3:C:515:ILE:HD12	2.43	0.49
3:C:541:ARG:HH12	3:C:545:ASN:HD22	1.58	0.49
4:D:143:LYS:NZ	8:H:399:GLN:OE1	2.43	0.49
4:D:172:LEU:O	4:D:175:GLU:HG3	2.13	0.49
7:G:97:GLY:O	7:G:101:ILE:CD1	2.58	0.49
8:H:456:GLN:OE1	8:H:464:LYS:HE3	2.12	0.49
9:I:155:TYR:HB2	9:I:158:ASP:OD1	2.12	0.49
10:J:66:THR:HG23	10:J:66:THR:O	2.12	0.49
10:J:163:TYR:O	10:J:166:ILE:HG22	2.11	0.49
10:J:262:LYS:O	10:J:266:ILE:CD1	2.60	0.49
10:J:292:THR:CG2	11:K:355:ILE:HD13	2.43	0.49
11:K:406:GLU:HB3	14:R:49:GLN:CG	2.42	0.49
12:L:95:LYS:O	12:L:99:VAL:HG23	2.12	0.49
12:L:526:SER:OG	12:L:528:MET:HG3	2.11	0.49
12:L:587:TYR:HB3	12:L:607:PHE:CE1	2.48	0.49
13:P:130:LEU:HG	13:P:134:HIS:NE2	2.27	0.49
13:P:391:GLU:HG3	13:P:394:GLU:OE1	2.12	0.49
15:S:107:ILE:HD12	15:s:103:LYS:HD2	1.93	0.49
1:A:8:LYS:HZ1	1:A:169:GLU:HB3	1.74	0.49
1:A:126:TYR:HB2	2:B:120:PHE:CE1	2.48	0.49
2:B:38:GLN:HG2	2:B:41:GLN:HE21	1.77	0.49
2:B:110:ASP:O	2:B:114:ASP:HB2	2.12	0.49
3:C:162:LEU:O	3:C:200:PRO:HD2	2.13	0.49
3:C:172:PHE:CD2	3:C:217:ILE:HG23	2.47	0.49
3:C:331:LYS:CE	3:C:434:ASP:HB3	2.41	0.49
3:C:443:GLN:NE2	3:C:516:ILE:HG21	2.28	0.49
3:C:496:GLN:OE1	3:C:499:GLN:NE2	2.45	0.49
6:F:26:LEU:HD12	6:F:27:GLN:N	2.28	0.49
6:F:219:ASP:HA	6:F:222:ARG:NH2	2.28	0.49
7:G:32:ASN:HB2	7:G:34:ILE:HG23	1.94	0.49
7:G:165:MET:HG3	14:Q:28:GLU:OE1	2.12	0.49
7:G:264:LYS:HD3	7:G:268:GLU:OE2	2.12	0.49
8:H:54:LYS:HB2	8:H:103:GLU:OE1	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:564:ASP:HB3	8:H:589:THR:CG2	2.42	0.49
8:H:775:ILE:HG12	8:H:778:ARG:HH21	1.77	0.49
9:I:66:ILE:HB	9:I:75:ILE:CD1	2.42	0.49
10:J:267:LYS:HD3	11:K:330:GLN:CD	2.38	0.49
11:K:75:ILE:HG23	11:K:180:VAL:HG13	1.95	0.49
12:L:145:ARG:O	12:L:145:ARG:HD3	2.12	0.49
12:L:153:LEU:CD1	12:L:631:ILE:HG12	2.42	0.49
12:L:464:GLU:O	12:L:468:VAL:HG13	2.11	0.49
12:L:501:ASN:HD21	12:L:655:ASN:ND2	2.11	0.49
12:L:525:ALA:O	12:L:623:ALA:HA	2.11	0.49
12:L:650:ILE:HD11	12:L:691:LEU:HG	1.93	0.49
12:L:786:LYS:HE3	12:L:787:MET:CG	2.42	0.49
13:P:134:HIS:O	13:P:135:ARG:HD2	2.11	0.49
13:P:249:LYS:HG3	13:P:357:LEU:HD13	1.93	0.49
13:P:251:LEU:HD11	13:P:327:TYR:CD1	2.48	0.49
13:P:274:ASN:OD1	14:R:7:LEU:HB3	2.13	0.49
13:P:322:ARG:N	14:R:168:ASN:HA	2.20	0.49
1:A:17:ARG:HD3	6:F:426:ILE:HG23	1.93	0.49
2:B:49:GLY:HA2	5:E:32:LEU:CG	2.41	0.49
2:B:54:ILE:C	5:E:36:LYS:O	2.55	0.49
2:B:93:GLN:O	2:B:97:ARG:HG3	2.13	0.49
3:C:87:GLU:O	3:C:109:LYS:HB2	2.12	0.49
3:C:404:LYS:HE2	3:C:407:ASP:OD2	2.12	0.49
3:C:543:ARG:HH22	10:J:255:LEU:HB2	1.77	0.49
6:F:87:GLU:OE1	6:F:87:GLU:HA	2.12	0.49
6:F:324:SER:CB	6:F:353:ALA:HB3	2.42	0.49
7:G:170:GLU:HG3	14:Q:21:LYS:CG	2.43	0.49
7:G:217:PHE:CZ	7:G:270:ILE:HG23	2.48	0.49
8:H:116:PRO:HB3	8:H:176:SER:O	2.12	0.49
8:H:191:LYS:HB2	8:H:318:GLU:HB3	1.93	0.49
8:H:581:ASN:OD1	8:H:684:GLU:HG3	2.12	0.49
9:I:58:VAL:CB	9:I:62:ILE:HD12	2.42	0.49
9:I:114:GLY:HA2	9:I:156:TYR:CE1	2.47	0.49
9:I:157:GLU:OE1	12:L:794:THR:HG21	2.11	0.49
10:J:34:SER:HA	10:J:105:LEU:HD21	1.94	0.49
11:K:51:LYS:CB	11:K:203:SER:HB2	2.43	0.49
11:K:295:LYS:HA	11:K:298:LEU:HD12	1.95	0.49
12:L:138:PHE:CE2	12:L:593:GLY:HA3	2.48	0.49
12:L:156:LEU:O	12:L:159:GLU:HB3	2.13	0.49
12:L:245:ARG:HH22	9:i:130:ILE:HG22	1.78	0.49
13:P:129:ASN:HB3	13:P:139:PRO:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:P:291:ASP:H	14:R:202:ARG:HH22	1.61	0.49
13:P:385:LEU:HD12	13:P:386:ALA:N	2.27	0.49
15:S:172:PRO:HA	15:S:175:MET:HG2	1.95	0.49
9:i:41:GLU:O	9:i:45:ILE:HG13	2.13	0.49
15:s:155:ASP:O	15:s:159:GLU:HG3	2.13	0.49
1:A:108:LYS:HB3	1:A:112:ARG:CZ	2.43	0.49
1:A:208:LYS:HG2	1:A:211:GLU:OE2	2.12	0.49
2:B:65:LYS:HB2	5:E:44:THR:CG2	2.43	0.49
2:B:163:GLU:HG3	4:D:159:LYS:HZ2	1.77	0.49
3:C:295:LEU:HA	3:C:298:VAL:HG22	1.95	0.49
4:D:153:SER:HB2	8:H:405:PRO:HG2	1.94	0.49
7:G:196:THR:H	14:Q:27:ILE:CD1	2.23	0.49
7:G:203:MET:HB3	7:G:231:LEU:HD23	1.95	0.49
7:G:281:LEU:CB	7:G:308:ILE:HA	2.37	0.49
7:G:302:LEU:HD22	7:G:308:ILE:HD12	1.94	0.49
8:H:91:GLU:OE2	8:H:333:MET:HG2	2.13	0.49
10:J:220:GLU:OE2	11:K:283:ARG:HD2	2.13	0.49
10:J:363:LYS:HD2	10:J:363:LYS:O	2.12	0.49
12:L:105:TYR:OH	12:L:542:GLU:HB3	2.12	0.49
12:L:530:LEU:CD2	12:L:619:LEU:HD23	2.41	0.49
12:L:750:MET:HE1	12:L:754:LYS:HZ2	1.78	0.49
13:P:168:GLU:OE1	13:P:168:GLU:HA	2.12	0.49
13:P:264:ILE:H	14:R:160:LYS:HB3	1.77	0.49
13:P:361:PHE:CD1	14:R:171:SER:HB2	2.48	0.49
14:Q:112:VAL:O	14:Q:112:VAL:HG12	2.12	0.49
1:A:8:LYS:HD3	1:A:166:PHE:CD1	2.48	0.49
1:A:258:LYS:HE2	1:A:258:LYS:HA	1.94	0.49
3:C:202:THR:HB	3:C:209:TYR:CZ	2.47	0.49
4:D:100:HIS:NE2	4:D:104:LEU:HD11	2.27	0.49
7:G:21:LEU:HD21	7:G:25:TYR:OH	2.13	0.49
7:G:322:ILE:HG21	12:L:471:ARG:NH2	2.27	0.49
8:H:521:ARG:CD	8:H:523:ILE:HD11	2.43	0.49
8:H:545:THR:HB	8:H:561:ILE:CG2	2.43	0.49
8:H:578:PHE:CE1	8:H:681:LYS:HA	2.47	0.49
8:H:783:GLN:CB	8:H:815:ILE:HG12	2.26	0.49
9:I:170:HIS:CE1	9:I:174:VAL:HG21	2.48	0.49
10:J:355:LYS:HG2	14:Q:50:TYR:CZ	2.48	0.49
11:K:67:LEU:O	11:K:71:LEU:HG	2.13	0.49
11:K:120:PHE:CZ	11:K:127:LEU:HD22	2.37	0.49
11:K:224:GLU:CG	11:K:228:LYS:HE3	2.43	0.49
11:K:355:ILE:CA	11:K:358:GLU:HG3	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:434:LYS:NZ	14:Q:134:LYS:HG3	2.27	0.49
12:L:64:LEU:O	12:L:80:LEU:HD21	2.12	0.49
12:L:443:MET:O	12:L:446:LYS:HG2	2.12	0.49
12:L:541:GLN:HG3	12:L:573:PRO:HD3	1.94	0.49
12:L:675:GLU:O	12:L:679:GLY:N	2.46	0.49
13:P:177:LEU:HD22	14:R:14:LEU:HD22	1.93	0.49
14:Q:90:TYR:O	14:Q:103:ILE:HD11	2.12	0.49
14:Q:171:SER:O	14:Q:174:GLN:HB3	2.13	0.49
15:S:100:VAL:HG21	15:s:96:LEU:HD22	1.95	0.49
1:A:155:ASN:ND2	1:A:158:GLU:OE2	2.29	0.49
2:B:51:LYS:C	2:B:53:ARG:N	2.70	0.49
2:B:154:ASN:O	2:B:158:THR:OG1	2.28	0.49
3:C:189:LYS:HD3	3:C:189:LYS:N	2.27	0.49
3:C:206:GLU:H	3:C:206:GLU:CD	2.20	0.49
3:C:213:ILE:HG22	3:C:217:ILE:HG13	1.95	0.49
3:C:294:ASP:HA	3:C:500:MET:CE	2.43	0.49
6:F:316:LYS:O	6:F:316:LYS:HG2	2.13	0.49
7:G:178:ALA:CB	7:G:207:LEU:HD23	2.43	0.49
7:G:179:ILE:HG22	7:G:208:LEU:HD21	1.95	0.49
7:G:185:LYS:HD2	10:J:361:LYS:CB	2.24	0.49
8:H:299:ASN:HD21	8:H:345:GLU:CD	2.19	0.49
8:H:429:VAL:HG12	8:H:430:TYR:N	2.27	0.49
11:K:403:ARG:NH2	14:R:44:GLU:OE1	2.46	0.49
12:L:430:ASN:OD1	12:L:431:ASN:N	2.46	0.49
12:L:568:PRO:HG2	12:L:827:LYS:CE	2.43	0.49
12:L:609:PHE:HB2	12:L:719:SER:HA	1.95	0.49
12:L:640:ILE:HB	12:L:644:TYR:HE2	1.76	0.49
12:L:660:VAL:O	12:L:664:PHE:HB2	2.12	0.49
12:L:667:ALA:O	12:L:714:VAL:HG13	2.13	0.49
13:P:150:SER:C	13:P:232:GLY:HA3	2.38	0.49
13:P:254:GLN:HB2	13:P:267:ARG:HD2	1.94	0.49
13:P:265:GLU:HG3	13:P:310:MET:CE	2.43	0.49
13:P:281:ARG:HD3	13:P:350:TYR:CG	2.48	0.49
13:P:325:ILE:HD12	13:P:359:THR:OG1	2.13	0.49
14:Q:189:ARG:HG3	14:Q:190:ILE:N	2.28	0.49
15:S:77:ASP:O	15:S:81:GLN:HG3	2.13	0.49
1:A:105:ILE:HG22	1:A:109:GLU:CD	2.38	0.48
1:A:221:TYR:HE1	2:B:218:MET:HE1	1.75	0.48
3:C:35:ILE:CD1	3:C:74:ILE:HG21	2.43	0.48
3:C:371:GLU:HG3	3:C:394:LEU:HD13	1.95	0.48
3:C:563:LYS:HD3	3:C:566:GLN:HE21	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:78:TRP:CE2	6:F:103:LYS:HB2	2.48	0.48
7:G:230:ASP:O	7:G:231:LEU:HD23	2.12	0.48
7:G:236:PHE:HB3	7:G:288:ASN:CG	2.38	0.48
7:G:329:MET:SD	7:G:332:ARG:NH1	2.86	0.48
8:H:102:ASN:O	8:H:105:ASP:N	2.38	0.48
8:H:501:LYS:O	8:H:501:LYS:HD2	2.12	0.48
8:H:608:GLN:HB3	8:H:624:HIS:CD2	2.48	0.48
10:J:198:LEU:HB2	11:K:262:ILE:HG12	1.94	0.48
12:L:260:GLU:CD	12:L:264:LEU:HD12	2.37	0.48
12:L:604:MET:HE1	12:L:737:LYS:CB	2.43	0.48
12:L:614:GLY:O	12:L:783:GLY:N	2.46	0.48
12:L:661:ALA:HB3	12:L:708:PHE:CZ	2.48	0.48
12:L:675:GLU:HB3	12:L:725:ASP:CB	2.43	0.48
12:L:697:LYS:HB3	12:L:698:PRO:HD3	1.95	0.48
13:P:144:LEU:HD11	13:P:364:TYR:CB	2.31	0.48
13:P:264:ILE:N	14:R:160:LYS:HD3	2.27	0.48
13:P:317:LEU:HD11	14:R:165:THR:HB	1.95	0.48
13:P:361:PHE:CG	14:R:171:SER:HA	2.48	0.48
14:Q:5:GLY:HA3	14:Q:6:LYS:CB	2.42	0.48
15:S:128:LYS:HB2	15:s:128:LYS:CE	2.43	0.48
1:A:91:ASN:CA	1:A:94:MET:HG2	2.42	0.48
1:A:177:PHE:CD2	2:B:167:MET:HE2	2.42	0.48
3:C:545:ASN:HA	3:C:548:GLN:OE1	2.13	0.48
4:D:179:GLN:O	4:D:183:MET:HG3	2.13	0.48
6:F:86:TRP:CH2	6:F:109:ARG:HB3	2.48	0.48
6:F:103:LYS:HZ1	6:F:107:LEU:HD21	1.76	0.48
6:F:141:ILE:CG2	6:F:162:LEU:HD22	2.39	0.48
6:F:162:LEU:HB3	6:F:165:LEU:HG	1.94	0.48
6:F:244:ILE:HD12	6:F:270:ASN:HD21	1.78	0.48
6:F:381:ARG:HG3	6:F:405:LEU:HD21	1.95	0.48
6:F:443:LEU:CD2	6:F:447:LYS:HD2	2.40	0.48
7:G:308:ILE:HG21	7:G:311:MET:SD	2.53	0.48
8:H:49:ARG:NH1	8:H:164:LYS:HB2	2.28	0.48
8:H:511:ARG:HD3	8:H:525:TYR:C	2.39	0.48
8:H:849:LEU:HA	8:H:852:LYS:HE2	1.94	0.48
10:J:126:LEU:HD13	10:J:138:PHE:CG	2.48	0.48
10:J:353:GLU:HB2	14:Q:42:PHE:HE2	1.77	0.48
11:K:205:ALA:O	11:K:209:ASP:N	2.42	0.48
11:K:344:LEU:CD2	11:K:348:GLN:HG3	2.43	0.48
11:K:421:LYS:HD3	11:K:423:LYS:CE	2.42	0.48
12:L:26:LEU:HB2	12:L:27:PRO:HD3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:319:ASP:OD1	12:L:320:ILE:N	2.37	0.48
12:L:598:LYS:HB3	12:L:711:GLU:OE1	2.13	0.48
12:L:750:MET:CE	12:L:754:LYS:NZ	2.76	0.48
13:P:214:SER:HB3	13:P:217:GLU:HB2	1.94	0.48
14:Q:115:LYS:HA	14:Q:118:ASP:HB2	1.95	0.48
14:R:82:PRO:HG2	14:R:85:GLU:OE1	2.13	0.48
15:S:118:THR:O	15:S:122:GLU:HG3	2.13	0.48
15:S:121:TYR:OH	15:s:118:THR:HG23	2.13	0.48
9:i:145:THR:CG2	9:i:154:ILE:HG12	2.43	0.48
2:B:27:ARG:HD2	2:B:27:ARG:C	2.37	0.48
2:B:71:TYR:HA	2:B:74:LYS:HG2	1.94	0.48
3:C:128:LYS:HG3	3:C:148:ASN:O	2.12	0.48
3:C:305:GLN:OE1	3:C:309:GLU:HG3	2.12	0.48
3:C:454:TYR:CE1	3:C:502:GLY:HA2	2.47	0.48
3:C:533:GLN:CD	3:C:537:LYS:HZ2	2.21	0.48
6:F:225:MET:CE	6:F:251:ARG:HG3	2.33	0.48
6:F:275:GLU:HG3	6:F:279:TYR:HE2	1.77	0.48
6:F:422:THR:OG1	6:F:428:PHE:HE2	1.95	0.48
6:F:434:LEU:O	6:F:437:ILE:HG22	2.13	0.48
7:G:206:ASN:HB2	7:G:234:ASN:OD1	2.14	0.48
8:H:312:PRO:O	8:H:340:LYS:HG2	2.13	0.48
8:H:544:LYS:HD2	8:H:562:ARG:HG2	1.94	0.48
8:H:612:ILE:HG12	8:H:619:VAL:CG2	2.39	0.48
9:I:13:LYS:HA	9:I:183:VAL:HG22	1.95	0.48
10:J:228:GLU:O	10:J:232:LYS:HD2	2.13	0.48
10:J:231:GLN:HE22	11:K:294:LYS:CG	2.26	0.48
10:J:262:LYS:HG2	10:J:266:ILE:HD11	1.94	0.48
11:K:54:ILE:HG22	11:K:55:VAL:N	2.28	0.48
11:K:116:ILE:HG22	11:K:152:LEU:HB2	1.94	0.48
12:L:120:VAL:HA	12:L:123:LEU:CD2	2.44	0.48
12:L:155:ALA:HA	12:L:158:LEU:CD2	2.42	0.48
12:L:272:ASP:HB2	12:L:275:LEU:HG	1.95	0.48
12:L:525:ALA:H	12:L:626:HIS:HB3	1.78	0.48
12:L:695:MET:SD	12:L:699:LEU:HG	2.53	0.48
12:L:838:GLY:O	12:L:841:ALA:HB3	2.13	0.48
13:P:131:GLU:HG3	13:P:212:LEU:CD2	2.37	0.48
13:P:320:GLN:CA	14:R:169:ARG:HA	2.42	0.48
1:A:8:LYS:HD2	2:B:164:ARG:HH22	1.76	0.48
1:A:111:LEU:HG	1:A:115:PHE:HE2	1.78	0.48
2:B:115:GLU:O	2:B:119:GLN:OE1	2.31	0.48
2:B:155:ILE:HG22	4:D:152:ARG:CZ	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:236:MET:HA	2:B:239:LYS:CG	2.44	0.48
3:C:169:THR:HB	3:C:174:TYR:O	2.12	0.48
3:C:289:TYR:HA	3:C:292:ILE:HD12	1.95	0.48
6:F:65:ILE:HA	6:F:68:MET:CG	2.40	0.48
6:F:201:LYS:HA	6:F:231:ASN:HB2	1.95	0.48
6:F:203:CYS:SG	6:F:206:LEU:HB2	2.53	0.48
7:G:99:ARG:HH11	7:G:99:ARG:HG3	1.78	0.48
7:G:226:LEU:HD23	7:G:280:LEU:CD2	2.35	0.48
8:H:54:LYS:HE3	8:H:64:ILE:CD1	2.43	0.48
8:H:216:GLU:HB3	8:H:218:ASN:CG	2.38	0.48
8:H:581:ASN:CG	8:H:684:GLU:HG3	2.39	0.48
9:I:13:LYS:HE3	9:I:181:PHE:O	2.13	0.48
10:J:318:ARG:O	10:J:322:GLN:HG2	2.13	0.48
12:L:325:ARG:NH1	12:L:460:MET:HE2	2.28	0.48
12:L:610:MET:HE3	12:L:739:ILE:C	2.39	0.48
13:P:281:ARG:C	13:P:282:ILE:HG13	2.39	0.48
14:Q:74:LEU:HB3	14:Q:79:ILE:HD12	1.94	0.48
14:Q:81:PHE:CZ	14:Q:115:LYS:HG2	2.48	0.48
14:R:132:VAL:O	14:R:136:VAL:HG23	2.12	0.48
1:A:244:ALA:HA	4:D:243:LYS:HZ3	1.77	0.48
2:B:49:GLY:HA2	5:E:32:LEU:HG	1.96	0.48
3:C:146:LEU:HB2	3:C:171:TYR:CE2	2.46	0.48
3:C:275:LYS:HD2	3:C:280:ASP:HB3	1.96	0.48
6:F:85:ARG:HG2	6:F:106:TYR:OH	2.14	0.48
6:F:239:LEU:CB	6:F:267:LEU:HD23	2.35	0.48
8:H:47:LEU:HD21	8:H:151:LEU:CD2	2.40	0.48
8:H:159:VAL:HG11	8:H:169:ASP:O	2.14	0.48
8:H:712:ARG:HH11	8:H:712:ARG:HG3	1.77	0.48
10:J:19:ARG:NH1	11:K:66:ASN:OD1	2.46	0.48
10:J:58:LEU:HD22	10:J:77:THR:HG23	1.96	0.48
10:J:104:ASP:OD2	10:J:107:SER:HB3	2.14	0.48
10:J:176:GLU:CG	11:K:240:LEU:HD23	2.40	0.48
10:J:194:LEU:HD12	11:K:255:LEU:HD23	1.96	0.48
12:L:23:LEU:O	12:L:26:LEU:HB2	2.13	0.48
12:L:79:LEU:HD22	12:L:418:LYS:NZ	2.28	0.48
12:L:440:LEU:HD23	12:L:440:LEU:O	2.13	0.48
12:L:574:ASP:HB3	12:L:575:PRO:HD2	1.96	0.48
12:L:612:PRO:HG2	12:L:781:SER:HB2	1.95	0.48
12:L:777:THR:HG22	12:L:815:LEU:HD11	1.95	0.48
13:P:235:PHE:HB3	13:P:240:ILE:HG22	1.96	0.48
1:A:91:ASN:C	1:A:94:MET:HG2	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:47:PHE:CD1	3:C:68:GLN:OE1	2.67	0.48
3:C:114:SER:O	3:C:116:ASN:ND2	2.47	0.48
3:C:124:LEU:HD11	3:C:127:LEU:HB3	1.95	0.48
3:C:143:ILE:HG22	3:C:171:TYR:CZ	2.48	0.48
3:C:301:ILE:HD11	3:C:491:LEU:HD21	1.96	0.48
6:F:256:LEU:HD12	6:F:283:ALA:HB3	1.96	0.48
6:F:298:ASN:HB2	6:F:326:ASN:HD21	1.77	0.48
7:G:18:THR:HG21	7:G:47:ALA:CB	2.42	0.48
7:G:204:LYS:HA	7:G:232:SER:O	2.14	0.48
7:G:224:LYS:CE	14:Q:98:PRO:HG3	2.30	0.48
8:H:191:LYS:HE2	8:H:318:GLU:OE1	2.12	0.48
8:H:214:TYR:HB2	8:H:481:ARG:HD2	1.95	0.48
11:K:69:THR:HG21	11:K:164:ARG:HD3	1.96	0.48
12:L:290:MET:O	12:L:294:GLN:OE1	2.31	0.48
12:L:496:PRO:O	12:L:655:ASN:HB2	2.13	0.48
13:P:157:LEU:HD12	13:P:241:VAL:CG1	2.44	0.48
13:P:402:ARG:CA	13:P:405:GLN:HG3	2.42	0.48
14:R:111:ILE:HA	14:R:114:LYS:NZ	2.28	0.48
15:S:53:LEU:HD13	15:s:53:LEU:HB3	1.95	0.48
15:S:59:ASP:OD1	15:S:60:LEU:N	2.45	0.48
15:S:181:MET:HG3	15:S:182:THR:N	2.28	0.48
9:i:42:ILE:HD12	9:i:80:PHE:CE1	2.49	0.48
1:A:239:PHE:CA	1:A:242:MET:HE2	2.44	0.48
1:A:273:GLU:O	1:A:276:ARG:HG2	2.14	0.48
2:B:47:ARG:HA	2:B:50:LEU:HD12	1.96	0.48
2:B:170:THR:O	2:B:174:GLN:OE1	2.31	0.48
3:C:544:LYS:HE2	8:H:629:GLU:CG	2.43	0.48
4:D:106:VAL:HG13	6:F:179:MET:O	2.13	0.48
6:F:34:VAL:HG23	6:F:55:ILE:CG2	2.43	0.48
6:F:284:LEU:CD2	6:F:290:LEU:HD23	2.43	0.48
8:H:25:VAL:HG12	8:H:26:GLY:N	2.29	0.48
8:H:357:MET:HE2	8:H:401:LEU:HB2	1.94	0.48
8:H:635:LYS:HB3	8:H:637:TYR:CE1	2.49	0.48
9:I:6:THR:N	9:I:11:LYS:HZ2	2.11	0.48
9:I:21:LYS:CD	9:I:174:VAL:HG12	2.37	0.48
10:J:194:LEU:HB2	11:K:258:LEU:HD13	1.95	0.48
10:J:202:LYS:HG2	11:K:265:VAL:HG21	1.95	0.48
10:J:237:LYS:HE2	11:K:302:LEU:HD21	1.96	0.48
10:J:252:HIS:HE1	11:K:319:ASP:HB2	1.78	0.48
11:K:73:ILE:CG2	11:K:163:LEU:HD13	2.43	0.48
11:K:209:ASP:HA	11:K:212:HIS:HD1	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:246:LYS:HA	11:K:249:LYS:HD3	1.95	0.48
11:K:429:LYS:HB2	14:Q:165:THR:HG21	1.96	0.48
12:L:51:ALA:HB1	12:L:116:LEU:HD22	1.95	0.48
12:L:51:ALA:HB2	12:L:116:LEU:HD22	1.95	0.48
12:L:86:ASN:OD1	12:L:408:ILE:HG23	2.13	0.48
12:L:89:VAL:HG22	12:L:597:ALA:HA	1.96	0.48
12:L:370:ALA:O	12:L:374:LYS:HG3	2.14	0.48
12:L:440:LEU:CD2	12:L:444:LEU:HD23	2.42	0.48
12:L:537:LEU:O	12:L:540:ILE:HG12	2.13	0.48
13:P:157:LEU:C	13:P:241:VAL:HG21	2.39	0.48
13:P:313:PHE:CD1	14:R:175:ALA:HB3	2.49	0.48
1:A:264:PHE:HE1	2:B:257:HIS:HD1	1.58	0.48
2:B:63:PHE:CB	9:i:180:ASN:N	2.74	0.48
6:F:114:PHE:CE2	6:F:130:LEU:HD13	2.34	0.48
7:G:72:MET:HB3	7:G:100:THR:HB	1.95	0.48
7:G:134:HIS:CB	7:G:137:ILE:HG12	2.42	0.48
8:H:50:CYS:SG	8:H:152:VAL:HG11	2.54	0.48
9:I:91:ARG:HG3	9:I:94:GLU:HB2	1.95	0.48
10:J:175:GLN:O	10:J:178:LYS:HB2	2.14	0.48
11:K:121:LYS:HB3	11:K:122:PRO:HD3	1.95	0.48
13:P:256:ILE:HG23	13:P:266:ILE:CD1	2.43	0.48
14:Q:194:ASP:OD1	14:Q:194:ASP:C	2.56	0.48
14:R:54:PHE:CD2	14:R:105:GLU:HG3	2.48	0.48
14:R:71:LYS:HA	14:R:74:LEU:HD12	1.94	0.48
14:R:73:LEU:CD2	14:R:108:VAL:HG11	2.44	0.48
1:A:108:LYS:HD2	2:B:99:LEU:HD12	1.95	0.48
1:A:171:SER:HA	1:A:174:LEU:HG	1.95	0.48
3:C:277:ALA:O	3:C:328:VAL:HG11	2.13	0.48
5:E:60:TYR:CE2	5:E:64:LEU:HD11	2.49	0.48
5:E:195:GLU:HA	5:E:198:GLU:OE1	2.13	0.48
6:F:280:LEU:HD13	6:F:295:LEU:CD2	2.43	0.48
7:G:96:GLU:OE1	7:G:99:ARG:NH2	2.46	0.48
7:G:170:GLU:CA	7:G:198:LEU:HD12	2.43	0.48
8:H:470:TYR:O	8:H:471:LYS:HD3	2.13	0.48
9:I:91:ARG:HG2	9:I:91:ARG:O	2.14	0.48
10:J:147:GLU:HA	11:K:40:MET:CE	2.39	0.48
11:K:246:LYS:HG3	11:K:249:LYS:HZ1	1.78	0.48
11:K:297:LYS:HD3	11:K:300:LYS:HE2	1.95	0.48
11:K:418:ARG:CG	11:K:419:LYS:HE3	2.38	0.48
12:L:677:ILE:HG12	12:L:692:PHE:O	2.13	0.48
14:R:125:LEU:HD11	14:R:199:LEU:CD1	2.24	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:S:126:LYS:HD2	15:S:126:LYS:C	2.39	0.48
9:i:42:ILE:HD11	9:i:75:ILE:CG2	2.42	0.48
9:i:51:GLN:O	9:i:52:PHE:HD1	1.97	0.48
1:A:66:ALA:HA	1:A:69:LYS:NZ	2.28	0.48
1:A:174:LEU:HD12	1:A:175:ASN:N	2.29	0.48
3:C:97:GLU:CB	3:C:117:CYS:HB2	2.43	0.48
3:C:120:LYS:HG2	3:C:121:ILE:N	2.29	0.48
3:C:184:ASP:HB2	3:C:185:ARG:NH1	2.27	0.48
3:C:335:ILE:HG12	3:C:431:ALA:HB1	1.96	0.48
6:F:379:ASP:OD1	6:F:381:ARG:NH2	2.44	0.48
7:G:189:GLN:HE22	10:J:361:LYS:HE3	1.75	0.48
8:H:524:LYS:HG2	8:H:536:GLU:CD	2.39	0.48
8:H:561:ILE:HG12	8:H:563:PHE:CE1	2.48	0.48
8:H:561:ILE:HG23	8:H:563:PHE:CZ	2.48	0.48
9:I:51:GLN:NE2	9:I:88:LEU:HA	2.29	0.48
10:J:255:LEU:CD2	11:K:320:GLU:HG3	2.34	0.48
11:K:44:ILE:HG22	11:K:196:VAL:HG12	1.94	0.48
11:K:181:ASN:HB3	11:K:184:LEU:CG	2.40	0.48
11:K:403:ARG:O	14:R:48:GLN:HG2	2.14	0.48
12:L:30:GLN:HA	12:L:33:GLN:HG2	1.96	0.48
12:L:42:ASP:OD1	12:L:42:ASP:N	2.46	0.48
12:L:134:ILE:HG21	12:L:627:GLU:HG2	1.93	0.48
14:Q:25:GLU:O	14:Q:27:ILE:N	2.47	0.48
15:S:79:THR:O	15:S:83:LYS:HG3	2.14	0.48
15:s:172:PRO:HA	15:s:175:MET:CE	2.41	0.48
1:A:91:ASN:HA	1:A:94:MET:CG	2.42	0.47
1:A:143:LYS:HD3	6:F:400:PHE:CD2	2.49	0.47
1:A:152:ARG:HD2	5:E:127:TYR:CG	2.49	0.47
1:A:228:MET:HE2	2:B:222:LEU:CB	2.44	0.47
1:A:270:MET:C	1:A:273:GLU:HG3	2.38	0.47
2:B:58:GLN:O	5:E:39:VAL:HB	2.14	0.47
3:C:236:ILE:HG22	3:C:242:ILE:HG21	1.96	0.47
3:C:423:TYR:HB2	8:H:231:ASN:ND2	2.29	0.47
4:D:51:PHE:HD1	5:E:39:VAL:HG13	1.79	0.47
6:F:414:GLN:O	6:F:417:ILE:HG12	2.14	0.47
8:H:191:LYS:CB	8:H:318:GLU:HB3	2.44	0.47
8:H:522:ILE:CG1	8:H:538:VAL:HG22	2.42	0.47
8:H:607:ILE:HG23	8:H:621:VAL:CG1	2.44	0.47
8:H:607:ILE:CG2	8:H:621:VAL:HG13	2.44	0.47
9:I:47:ARG:HH11	12:L:197:GLY:HA3	1.79	0.47
10:J:252:HIS:CE1	11:K:319:ASP:HB2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:17:LEU:HD23	12:L:416:ILE:HG13	1.96	0.47
12:L:589:ALA:O	12:L:593:GLY:N	2.39	0.47
13:P:153:TYR:CZ	13:P:157:LEU:HD11	2.48	0.47
13:P:252:CYS:SG	13:P:271:LEU:HD21	2.54	0.47
9:i:22:ILE:CD1	9:i:84:MET:HG2	2.44	0.47
1:A:243:LYS:CE	2:B:236:MET:HG3	2.44	0.47
2:B:86:ASN:O	2:B:90:ILE:HG12	2.14	0.47
2:B:155:ILE:CG2	4:D:148:LYS:HZ3	2.27	0.47
2:B:246:ASN:OD1	2:B:247:LYS:N	2.47	0.47
3:C:111:LEU:HB2	3:C:130:LEU:HD11	1.96	0.47
6:F:235:ILE:C	6:F:262:LEU:HD12	2.39	0.47
6:F:333:ALA:HB2	6:F:357:PHE:HE1	1.76	0.47
6:F:418:ARG:O	6:F:428:PHE:CZ	2.66	0.47
6:F:424:GLN:O	6:F:425:LYS:HG2	2.15	0.47
8:H:146:PRO:HD2	8:H:278:TYR:CD1	2.48	0.47
8:H:146:PRO:HD2	8:H:278:TYR:CD2	2.48	0.47
8:H:466:TYR:HB2	8:H:482:ARG:HB2	1.95	0.47
8:H:589:THR:HB	8:H:615:ILE:HD11	1.96	0.47
8:H:590:LYS:HD2	8:H:613:ASP:OD2	2.14	0.47
8:H:618:LYS:HB3	8:H:637:TYR:O	2.14	0.47
9:I:143:PHE:CE1	9:I:147:LYS:HE2	2.48	0.47
10:J:274:ALA:O	10:J:278:GLU:OE1	2.32	0.47
10:J:296:GLU:O	10:J:296:GLU:HG2	2.15	0.47
11:K:271:LYS:NZ	11:K:272:LYS:HE2	2.29	0.47
12:L:75:GLN:NE2	12:L:440:LEU:HB3	2.29	0.47
12:L:699:LEU:O	12:L:734:PHE:HZ	1.97	0.47
13:P:207:ILE:HG21	13:P:242:VAL:CG2	2.44	0.47
14:R:64:TYR:HA	14:R:103:ILE:O	2.14	0.47
15:s:58:PHE:HE1	15:s:62:LYS:HE2	1.78	0.47
1:A:190:ASP:HA	1:A:193:GLU:HB3	1.97	0.47
1:A:215:ILE:HG23	1:A:219:LYS:HE2	1.96	0.47
2:B:48:GLU:HG3	4:D:40:MET:CE	2.45	0.47
2:B:53:ARG:NE	5:E:35:LEU:HB3	2.28	0.47
2:B:57:GLU:N	5:E:37:GLU:N	2.52	0.47
2:B:171:HIS:NE2	2:B:175:LEU:HD21	2.29	0.47
3:C:136:PHE:HE2	5:E:214:LEU:HD21	1.79	0.47
3:C:447:GLU:O	3:C:451:VAL:HG23	2.14	0.47
5:E:75:SER:OG	12:L:1:MET:HE2	2.14	0.47
6:F:127:LYS:NZ	6:F:128:GLN:HE21	2.11	0.47
6:F:236:GLU:HG2	6:F:264:TYR:CB	2.38	0.47
6:F:255:PHE:CZ	6:F:262:LEU:HD22	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:272:GLU:HA	7:G:275:LYS:HD2	1.97	0.47
8:H:790:LYS:HG2	8:H:808:ILE:HG13	1.95	0.47
10:J:216:ALA:CA	11:K:280:LEU:HD22	2.43	0.47
10:J:288:ILE:HG12	11:K:352:LYS:CB	2.44	0.47
10:J:355:LYS:HE2	14:Q:50:TYR:CZ	2.50	0.47
11:K:77:LEU:HD21	11:K:173:ILE:CD1	2.36	0.47
12:L:574:ASP:HB3	12:L:742:PRO:HB3	1.96	0.47
13:P:182:LEU:HD12	13:P:183:CYS:N	2.29	0.47
13:P:262:ASN:HB2	14:R:158:GLN:C	2.39	0.47
13:P:314:GLU:N	14:R:179:LEU:HD11	2.29	0.47
15:S:80:ARG:HA	15:S:83:LYS:CE	2.44	0.47
9:i:118:ILE:HA	9:i:121:MET:CE	2.40	0.47
1:A:31:ILE:HG23	6:F:381:ARG:NH1	2.29	0.47
1:A:49:ASP:C	1:A:53:ARG:HB2	2.39	0.47
1:A:112:ARG:HG2	2:B:109:LEU:HD12	1.94	0.47
2:B:56:ASP:N	5:E:36:LYS:HG2	2.30	0.47
2:B:119:GLN:HG3	2:B:122:ILE:HD12	1.96	0.47
3:C:103:ASP:N	3:C:103:ASP:OD1	2.45	0.47
3:C:457:LEU:HA	3:C:460:ILE:HG22	1.97	0.47
4:D:54:GLU:OE1	5:E:46:ARG:NH1	2.47	0.47
5:E:38:ARG:C	5:E:41:GLU:H	2.19	0.47
5:E:195:GLU:O	5:E:199:LEU:HD23	2.15	0.47
6:F:68:MET:SD	6:F:78:TRP:HZ3	2.38	0.47
6:F:91:LYS:HD2	6:F:109:ARG:NH1	2.29	0.47
6:F:153:ILE:HG23	6:F:155:ILE:CD1	2.44	0.47
6:F:414:GLN:HA	6:F:417:ILE:CD1	2.44	0.47
7:G:24:GLN:OE1	7:G:27:LYS:HD3	2.15	0.47
7:G:226:LEU:CG	7:G:280:LEU:HD13	2.29	0.47
7:G:254:GLU:HG3	7:G:255:THR:N	2.30	0.47
7:G:317:ILE:CD1	7:G:322:ILE:HG12	2.44	0.47
8:H:124:LEU:HD21	8:H:177:LEU:CG	2.41	0.47
8:H:146:PRO:HB3	8:H:282:ARG:NH1	2.29	0.47
8:H:299:ASN:ND2	8:H:344:PHE:HB2	2.29	0.47
8:H:526:TYR:HD2	8:H:529:ARG:HD2	1.79	0.47
8:H:564:ASP:OD2	8:H:566:LYS:HD2	2.14	0.47
8:H:612:ILE:HD13	8:H:673:GLU:CD	2.39	0.47
10:J:61:LEU:HG	10:J:65:LEU:HD11	1.96	0.47
12:L:607:PHE:CD2	12:L:715:VAL:HG11	2.49	0.47
12:L:610:MET:HE1	12:L:738:LYS:CE	2.35	0.47
12:L:633:LEU:HB2	12:L:669:ILE:CD1	2.44	0.47
13:P:264:ILE:O	14:R:160:LYS:NZ	2.41	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:P:282:ILE:HA	13:P:326:GLU:OE1	2.14	0.47
13:P:315:LEU:HD13	14:R:175:ALA:HB2	1.96	0.47
14:Q:113:SER:HA	14:Q:116:ILE:HD12	1.96	0.47
14:R:67:LEU:CD1	14:R:86:LEU:HD23	2.44	0.47
1:A:157:GLN:C	1:A:160:GLU:HG3	2.39	0.47
2:B:59:LYS:O	2:B:59:LYS:HD3	2.14	0.47
3:C:106:VAL:HG12	3:C:126:LYS:C	2.39	0.47
3:C:217:ILE:O	3:C:217:ILE:HG22	2.14	0.47
3:C:350:GLU:HA	3:C:353:HIS:ND1	2.28	0.47
3:C:465:GLU:CG	3:C:494:LYS:HG2	2.44	0.47
6:F:103:LYS:CE	6:F:107:LEU:HD21	2.44	0.47
6:F:322:ASP:HA	6:F:351:ASN:CB	2.17	0.47
7:G:104:TYR:HE2	7:G:111:ILE:HD11	1.79	0.47
7:G:129:LEU:O	7:G:133:LEU:HD23	2.14	0.47
7:G:216:LEU:CD1	7:G:231:LEU:HD13	2.45	0.47
8:H:555:ARG:CB	8:H:596:GLU:HB3	2.38	0.47
8:H:698:GLU:HG3	8:H:699:ILE:N	2.20	0.47
9:I:49:LEU:HD12	9:I:84:MET:SD	2.54	0.47
11:K:418:ARG:CD	14:R:60:ASP:HA	2.44	0.47
12:L:557:ASP:OD2	12:L:560:LEU:N	2.41	0.47
12:L:729:LYS:HE2	12:L:729:LYS:HA	1.95	0.47
13:P:118:ARG:HD3	13:P:369:TYR:CD1	2.49	0.47
13:P:171:LYS:HD2	13:P:171:LYS:C	2.40	0.47
14:Q:178:PHE:CZ	14:Q:182:ILE:HD11	2.49	0.47
15:S:114:ILE:CG1	15:S:114:ILE:HG13	2.45	0.47
9:i:38:ASP:CA	9:i:74:PHE:HD2	2.26	0.47
9:i:97:ASP:HB3	9:i:99:GLU:OE1	2.15	0.47
1:A:108:LYS:HE3	2:B:99:LEU:HD11	1.96	0.47
2:B:58:GLN:C	5:E:37:GLU:O	2.58	0.47
3:C:213:ILE:HG22	3:C:217:ILE:CG1	2.44	0.47
3:C:387:GLU:HB3	3:C:390:ARG:NH2	2.30	0.47
6:F:341:ALA:HB1	6:F:371:LYS:HD2	1.96	0.47
7:G:117:MET:HG3	7:G:147:ASP:H	1.80	0.47
7:G:227:GLU:O	7:G:280:LEU:HD12	2.15	0.47
8:H:118:LYS:CD	8:H:181:VAL:HA	2.43	0.47
8:H:463:VAL:HG11	8:H:466:TYR:CE2	2.49	0.47
8:H:467:ARG:HB3	8:H:469:PHE:CZ	2.49	0.47
8:H:483:TYR:HB2	8:H:488:LYS:HB3	1.97	0.47
8:H:578:PHE:CZ	8:H:684:GLU:HB2	2.38	0.47
8:H:794:VAL:HG21	8:H:808:ILE:HD11	1.97	0.47
9:I:104:ALA:CB	12:L:184:ALA:HB1	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:315:GLU:OE2	10:J:319:ARG:NH2	2.43	0.47
11:K:102:LEU:HD11	11:K:176:MET:HE3	1.96	0.47
11:K:413:HIS:HD1	14:R:56:LEU:CG	2.27	0.47
12:L:237:ALA:HB1	12:L:241:LYS:HZ1	1.80	0.47
12:L:494:LYS:HZ3	12:L:498:ASP:HB2	1.78	0.47
15:s:113:GLN:O	15:s:117:MET:HE2	2.14	0.47
2:B:44:LYS:HG2	4:D:37:LYS:HB3	1.96	0.47
3:C:136:PHE:CE1	3:C:158:GLY:HA3	2.49	0.47
3:C:161:ARG:HA	3:C:200:PRO:CG	2.45	0.47
3:C:284:ASN:HB2	3:C:291:LYS:NZ	2.29	0.47
3:C:286:LYS:HE2	3:C:314:CYS:CB	2.44	0.47
3:C:526:ASP:O	3:C:529:GLU:HG2	2.15	0.47
6:F:20:LYS:O	6:F:23:PHE:HD2	1.98	0.47
6:F:218:ASP:CG	6:F:245:GLU:HB2	2.39	0.47
6:F:328:PHE:CD2	6:F:332:THR:HG21	2.50	0.47
7:G:32:ASN:CB	7:G:34:ILE:HG23	2.44	0.47
7:G:167:SER:HB2	14:Q:26:ILE:CA	2.45	0.47
7:G:201:LEU:CD2	14:Q:24:LYS:HZ2	2.26	0.47
7:G:216:LEU:HD12	7:G:231:LEU:HD13	1.95	0.47
8:H:50:CYS:HA	8:H:162:TRP:HH2	1.79	0.47
8:H:51:GLN:O	8:H:55:GLU:HG3	2.15	0.47
8:H:99:TYR:N	8:H:100:PRO:HD2	2.29	0.47
8:H:269:GLU:HG3	8:H:269:GLU:O	2.13	0.47
8:H:289:LEU:HD23	8:H:296:VAL:HG13	1.95	0.47
8:H:343:ASN:ND2	8:H:346:GLU:HG3	2.30	0.47
8:H:586:VAL:HG12	8:H:587:GLN:N	2.30	0.47
8:H:623:TYR:CD1	8:H:635:LYS:HE3	2.49	0.47
8:H:781:GLU:OE2	8:H:785:GLN:HG3	2.14	0.47
8:H:785:GLN:CA	8:H:788:GLU:HG2	2.44	0.47
9:I:47:ARG:HG2	9:I:52:PHE:CD1	2.50	0.47
9:I:156:TYR:O	9:I:160:ILE:HG13	2.14	0.47
10:J:152:LEU:C	10:J:154:LYS:N	2.71	0.47
10:J:255:LEU:HD11	11:K:320:GLU:CD	2.40	0.47
10:J:354:TRP:HE3	14:Q:112:VAL:CB	2.26	0.47
10:J:356:ASP:O	14:Q:38:PHE:CZ	2.67	0.47
12:L:89:VAL:HG11	12:L:600:LYS:HB3	1.97	0.47
12:L:439:GLU:HG3	12:L:440:LEU:N	2.30	0.47
12:L:522:LEU:HD12	12:L:632:VAL:HG21	1.97	0.47
12:L:599:GLU:N	12:L:711:GLU:OE1	2.48	0.47
12:L:608:PHE:HE1	12:L:720:THR:HG23	1.79	0.47
12:L:619:LEU:HA	12:L:622:ARG:CZ	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:670:TYR:HD1	12:L:717:ILE:CG2	2.28	0.47
12:L:700:MET:HA	12:L:734:PHE:CZ	2.50	0.47
12:L:749:ARG:HH12	12:L:753:PHE:CB	2.23	0.47
13:P:227:ASN:O	13:P:228:HIS:ND1	2.47	0.47
13:P:256:ILE:HB	13:P:364:TYR:H	1.79	0.47
14:R:182:ILE:HD13	14:R:194:ASP:HB3	1.96	0.47
1:A:91:ASN:CG	1:A:95:GLN:HE22	2.23	0.47
2:B:33:GLN:O	2:B:37:ASP:N	2.35	0.47
3:C:175:LYS:NZ	3:C:183:ASN:H	2.13	0.47
3:C:426:LYS:HE3	8:H:230:GLU:OE1	2.14	0.47
5:E:38:ARG:O	5:E:40:ASN:N	2.48	0.47
6:F:143:THR:HG23	6:F:167:SER:CB	2.41	0.47
6:F:322:ASP:HB2	6:F:351:ASN:OD1	2.14	0.47
7:G:90:LYS:N	7:G:117:MET:O	2.44	0.47
7:G:274:LEU:O	7:G:305:ASN:ND2	2.34	0.47
8:H:173:LEU:O	8:H:177:LEU:HD23	2.15	0.47
8:H:209:LEU:HA	8:H:467:ARG:HH12	1.80	0.47
8:H:616:LYS:HZ2	8:H:618:LYS:C	2.22	0.47
9:I:145:THR:HG22	9:I:154:ILE:HG12	1.97	0.47
10:J:51:LEU:HD22	10:J:87:ASN:HB2	1.96	0.47
10:J:113:LYS:HB3	10:J:116:ARG:NH2	2.28	0.47
12:L:321:LEU:O	12:L:324:MET:HG2	2.15	0.47
12:L:545:ALA:O	12:L:549:LEU:HD23	2.15	0.47
12:L:594:SER:CA	12:L:713:ARG:HH11	2.27	0.47
12:L:835:VAL:HG22	12:L:840:GLN:OE1	2.15	0.47
13:P:128:ILE:O	13:P:132:ARG:HG3	2.15	0.47
13:P:140:VAL:HG23	13:P:229:ILE:HG21	1.94	0.47
13:P:380:LYS:O	13:P:384:ILE:HG13	2.15	0.47
14:Q:136:VAL:HG13	14:Q:154:ILE:CD1	2.33	0.47
14:Q:164:MET:HA	14:Q:170:TRP:H	1.79	0.47
9:i:37:VAL:HG13	9:i:41:GLU:OE2	2.14	0.47
1:A:112:ARG:NH1	2:B:102:LYS:HB3	2.30	0.47
1:A:129:MET:O	1:A:133:GLN:HG2	2.15	0.47
1:A:191:LEU:O	1:A:194:GLN:NE2	2.48	0.47
1:A:213:LEU:HD11	2:B:204:LYS:NZ	2.30	0.47
3:C:517:LEU:C	3:C:521:MET:HE3	2.40	0.47
4:D:60:PHE:CZ	12:L:750:MET:HE3	2.50	0.47
6:F:55:ILE:CG2	6:F:59:ILE:HD11	2.33	0.47
6:F:326:ASN:HB3	6:F:328:PHE:CE1	2.50	0.47
6:F:421:LEU:HB2	6:F:428:PHE:HZ	1.79	0.47
8:H:49:ARG:HB3	8:H:162:TRP:CE3	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:178:LEU:HD12	8:H:287:VAL:HG11	1.96	0.47
8:H:581:ASN:HB3	8:H:688:ARG:HG3	1.97	0.47
8:H:619:VAL:CG1	8:H:621:VAL:HG23	2.41	0.47
8:H:783:GLN:HG3	8:H:818:LEU:HD13	1.96	0.47
9:I:18:LEU:HD23	9:I:85:LEU:CD1	2.23	0.47
9:I:144:ALA:HB1	9:I:154:ILE:HG21	1.97	0.47
10:J:22:PHE:CE2	10:J:26:ILE:HD11	2.49	0.47
10:J:113:LYS:HD2	10:J:116:ARG:NH2	2.30	0.47
10:J:117:ILE:HA	10:J:120:MET:HG3	1.97	0.47
11:K:85:PHE:CZ	11:K:110:LEU:HD13	2.50	0.47
12:L:153:LEU:HD21	12:L:631:ILE:HD11	1.96	0.47
12:L:308:LEU:HD13	12:L:442:LYS:HE3	1.96	0.47
12:L:526:SER:HB3	12:L:529:ASP:CG	2.40	0.47
13:P:277:ILE:HG21	13:P:309:TRP:CB	2.45	0.47
14:Q:81:PHE:CB	14:Q:86:LEU:HD11	2.40	0.47
9:i:62:ILE:HG23	9:i:83:TYR:CE2	2.50	0.47
1:A:60:ILE:C	1:A:63:GLU:HG2	2.40	0.47
1:A:155:ASN:HA	1:A:158:GLU:CD	2.40	0.47
1:A:155:ASN:CA	1:A:158:GLU:HG2	2.46	0.47
1:A:208:LYS:O	1:A:211:GLU:HG3	2.15	0.47
1:A:224:LEU:CD2	2:B:215:THR:HG23	2.45	0.47
1:A:229:GLU:O	1:A:229:GLU:HG2	2.15	0.47
1:A:260:LEU:HD22	2:B:255:HIS:NE2	2.30	0.47
2:B:62:THR:CG2	9:i:179:ASN:HD22	2.28	0.47
2:B:182:ILE:HG23	2:B:186:LYS:HZ2	1.78	0.47
3:C:213:ILE:CG2	3:C:217:ILE:HD11	2.44	0.47
3:C:276:ASP:HB3	3:C:332:HIS:HD2	1.78	0.47
5:E:196:ASP:HA	5:E:199:LEU:CD2	2.44	0.47
6:F:72:ILE:HG22	6:F:78:TRP:CZ2	2.50	0.47
6:F:127:LYS:HE2	6:F:128:GLN:NE2	2.29	0.47
6:F:414:GLN:HA	6:F:417:ILE:CG1	2.44	0.47
8:H:50:CYS:HB3	8:H:103:GLU:HB2	1.97	0.47
8:H:453:THR:HG21	8:H:455:PHE:CZ	2.50	0.47
8:H:535:ILE:HD11	8:H:549:TYR:O	2.15	0.47
8:H:598:ASN:HB3	8:H:601:TYR:HD2	1.80	0.47
8:H:753:VAL:O	8:H:756:GLU:HG3	2.14	0.47
9:I:58:VAL:HG23	9:I:62:ILE:CB	2.44	0.47
10:J:237:LYS:CE	11:K:302:LEU:HD11	2.45	0.47
10:J:358:GLY:HA2	14:Q:51:GLN:CG	2.34	0.47
12:L:465:LEU:O	12:L:469:ARG:HG2	2.15	0.47
13:P:294:GLY:O	13:P:295:VAL:HG23	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:Q:132:VAL:CG2	14:Q:162:LEU:HD23	2.35	0.47
14:R:37:ASP:CB	14:R:117:ARG:HH22	2.27	0.47
14:R:65:ILE:HB	14:R:69:GLU:CB	2.44	0.47
15:S:154:LEU:HA	15:S:157:MET:CE	2.44	0.47
15:s:84:GLN:O	15:s:88:GLU:OE1	2.33	0.47
15:s:115:GLN:HB3	15:s:119:LYS:NZ	2.30	0.47
2:B:58:GLN:C	5:E:37:GLU:C	2.83	0.46
4:D:54:GLU:OE1	5:E:46:ARG:CZ	2.62	0.46
6:F:168:LEU:CB	6:F:209:LEU:HD23	2.45	0.46
7:G:27:LYS:O	7:G:31:LEU:N	2.44	0.46
7:G:167:SER:HB2	14:Q:26:ILE:HA	1.97	0.46
7:G:232:SER:O	7:G:234:ASN:ND2	2.48	0.46
7:G:313:LEU:CB	7:G:317:ILE:HD13	2.39	0.46
8:H:191:LYS:HG2	8:H:282:ARG:O	2.15	0.46
8:H:411:ILE:HG22	8:H:412:TYR:N	2.30	0.46
8:H:490:ILE:HG12	8:H:514:ILE:CG2	2.45	0.46
8:H:753:VAL:HG12	8:H:757:ILE:HD11	1.96	0.46
9:I:59:ARG:HA	9:I:63:LEU:HD12	1.96	0.46
10:J:152:LEU:HD13	11:K:216:LEU:HD11	1.95	0.46
11:K:353:GLN:HA	11:K:356:GLU:OE1	2.14	0.46
12:L:15:ASN:HA	12:L:18:MET:SD	2.55	0.46
12:L:155:ALA:HA	12:L:158:LEU:HD21	1.98	0.46
12:L:335:GLU:HG2	12:L:345:PRO:HD3	1.96	0.46
12:L:700:MET:HE3	12:L:704:LYS:HZ3	1.78	0.46
13:P:173:ARG:HH11	13:P:173:ARG:HA	1.80	0.46
13:P:262:ASN:HB2	14:R:158:GLN:CA	2.45	0.46
13:P:270:MET:HE3	13:P:272:ASP:CB	2.43	0.46
13:P:276:GLY:CA	13:P:333:PRO:HG3	2.45	0.46
9:i:15:GLU:HG2	9:i:85:LEU:HD11	1.95	0.46
9:i:45:ILE:HG21	9:i:80:PHE:HZ	1.80	0.46
1:A:60:ILE:O	1:A:63:GLU:HG2	2.15	0.46
2:B:228:LYS:HG2	2:B:228:LYS:O	2.13	0.46
3:C:65:ARG:HH21	3:C:85:ARG:HG3	1.74	0.46
6:F:27:GLN:NE2	6:F:31:VAL:HG21	2.30	0.46
6:F:78:TRP:CE3	6:F:103:LYS:HD3	2.51	0.46
6:F:224:ILE:O	6:F:228:VAL:HG23	2.15	0.46
6:F:265:LEU:CD1	6:F:267:LEU:HG	2.42	0.46
7:G:115:ASP:CG	7:G:117:MET:HE1	2.40	0.46
7:G:222:VAL:HG12	14:Q:97:SER:HB3	1.97	0.46
7:G:230:ASP:OD1	7:G:284:ASP:HB2	2.14	0.46
8:H:96:LEU:HD21	8:H:331:ILE:HG12	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:332:ASN:ND2	8:H:342:LEU:HD13	2.30	0.46
8:H:428:THR:HA	8:H:436:VAL:O	2.15	0.46
9:I:4:PRO:HA	9:I:11:LYS:HE3	1.98	0.46
9:I:103:ALA:HA	9:I:106:LYS:CG	2.45	0.46
10:J:44:LEU:CD1	10:J:98:LEU:HD11	2.44	0.46
10:J:95:LEU:HD23	10:J:98:LEU:HD12	1.96	0.46
13:P:158:VAL:HG21	13:P:234:PHE:CD2	2.50	0.46
13:P:186:THR:HG23	13:P:241:VAL:CG2	2.46	0.46
14:R:178:PHE:CE2	14:R:195:VAL:HG22	2.49	0.46
15:S:36:LEU:CD1	15:s:35:ARG:HD3	2.36	0.46
9:i:10:GLU:HA	9:i:13:LYS:HG2	1.96	0.46
15:s:147:ALA:O	15:s:151:LYS:HD3	2.14	0.46
1:A:31:ILE:HD12	1:A:32:ASN:H	1.80	0.46
2:B:236:MET:O	2:B:239:LYS:HG3	2.15	0.46
3:C:358:LEU:HD13	3:C:362:LYS:HE3	1.98	0.46
4:D:114:LEU:C	4:D:116:PHE:N	2.73	0.46
7:G:159:LEU:O	7:G:163:LEU:HB2	2.15	0.46
7:G:308:ILE:O	7:G:332:ARG:HD3	2.15	0.46
8:H:616:LYS:HZ1	8:H:636:ILE:HG23	1.80	0.46
10:J:55:TYR:CD1	10:J:81:ILE:HG23	2.50	0.46
10:J:61:LEU:HG	10:J:65:LEU:CD1	2.45	0.46
10:J:98:LEU:CD2	11:K:52:PRO:HB2	2.45	0.46
10:J:309:ASP:N	11:K:373:PHE:HZ	2.13	0.46
10:J:356:ASP:CB	14:Q:38:PHE:CD1	2.98	0.46
11:K:211:ASN:CG	11:K:216:LEU:HG	2.40	0.46
11:K:268:GLU:HA	11:K:271:LYS:HG2	1.97	0.46
11:K:407:ALA:CA	14:R:48:GLN:HG3	2.44	0.46
12:L:531:LYS:O	12:L:752:LEU:HD21	2.14	0.46
12:L:750:MET:O	12:L:754:LYS:HG3	2.15	0.46
13:P:303:THR:HB	13:P:306:THR:OG1	2.14	0.46
14:Q:21:LYS:HB2	14:Q:26:ILE:CD1	2.45	0.46
14:Q:189:ARG:NH1	14:Q:190:ILE:H	2.11	0.46
1:A:202:THR:O	1:A:206:GLN:OE1	2.34	0.46
2:B:48:GLU:CG	4:D:40:MET:HE2	2.45	0.46
2:B:53:ARG:HD3	5:E:35:LEU:HB3	1.97	0.46
2:B:147:GLU:HB3	2:B:151:ARG:NH2	2.30	0.46
2:B:237:ASN:O	2:B:241:GLN:OE1	2.33	0.46
3:C:172:PHE:CD2	3:C:217:ILE:HA	2.50	0.46
3:C:375:TRP:CH2	3:C:566:GLN:HG3	2.51	0.46
6:F:35:SER:CB	6:F:59:ILE:HG12	2.46	0.46
7:G:109:LYS:HD3	7:G:137:ILE:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:50:CYS:HA	8:H:162:TRP:CH2	2.51	0.46
8:H:84:PHE:CZ	8:H:88:LEU:HD11	2.50	0.46
8:H:143:LEU:HB3	8:H:146:PRO:HA	1.97	0.46
8:H:330:TRP:CZ2	8:H:347:MET:HE3	2.51	0.46
8:H:576:LYS:HG2	8:H:588:ILE:HD12	1.96	0.46
9:I:63:LEU:HD23	9:I:66:ILE:HD11	1.96	0.46
9:I:146:ASN:HB3	9:I:162:ARG:HH12	1.80	0.46
10:J:126:LEU:HD13	10:J:138:PHE:CD2	2.51	0.46
12:L:87:VAL:HG23	12:L:412:LEU:CD2	2.44	0.46
12:L:166:PRO:CB	12:L:523:ILE:HA	2.45	0.46
12:L:214:LYS:O	12:L:217:ARG:HG3	2.14	0.46
13:P:402:ARG:C	13:P:405:GLN:HG3	2.39	0.46
14:Q:74:LEU:CB	14:Q:79:ILE:HD12	2.45	0.46
2:B:46:LYS:CA	5:E:28:LEU:HD11	2.43	0.46
2:B:80:LYS:HD2	2:B:83:GLN:OE1	2.15	0.46
3:C:155:PHE:O	3:C:194:LEU:HA	2.15	0.46
3:C:335:ILE:CD1	3:C:435:ILE:HD11	2.46	0.46
3:C:378:GLU:HG2	3:C:387:GLU:HG3	1.94	0.46
3:C:544:LYS:HE2	8:H:629:GLU:HG3	1.98	0.46
4:D:57:LEU:HB3	5:E:46:ARG:HD2	1.98	0.46
7:G:112:GLU:HA	7:G:140:PRO:O	2.14	0.46
7:G:147:ASP:O	7:G:149:ASN:ND2	2.49	0.46
7:G:203:MET:HG2	7:G:208:LEU:CD1	2.46	0.46
7:G:308:ILE:CG2	7:G:311:MET:HG3	2.45	0.46
8:H:44:ASN:CB	8:H:47:LEU:HD12	2.46	0.46
8:H:708:LYS:HB3	8:H:712:ARG:NH2	2.30	0.46
8:H:800:ILE:HG23	8:H:805:GLU:OE2	2.16	0.46
9:I:130:ILE:CG2	12:L:193:ARG:HH22	2.25	0.46
9:I:145:THR:HG23	9:I:154:ILE:HG12	1.97	0.46
10:J:317:ASP:HB3	10:J:321:ARG:NH1	2.30	0.46
11:K:138:GLU:OE1	11:K:141:LYS:HG3	2.15	0.46
11:K:343:ALA:O	11:K:344:LEU:C	2.59	0.46
11:K:433:LYS:HD3	14:Q:131:LEU:CD1	2.45	0.46
12:L:41:ARG:NH1	12:L:45:GLU:OE1	2.49	0.46
12:L:72:VAL:HG12	12:L:72:VAL:O	2.14	0.46
12:L:597:ALA:O	12:L:601:LEU:HD23	2.15	0.46
12:L:646:ASP:OD1	12:L:649:GLN:HB2	2.16	0.46
13:P:301:GLU:CB	13:P:339:LYS:HE3	2.46	0.46
14:Q:54:PHE:O	14:Q:57:PHE:N	2.49	0.46
14:Q:117:ARG:HH21	14:Q:120:ASP:CG	2.23	0.46
15:S:80:ARG:HD2	15:S:83:LYS:NZ	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:8:LYS:HE3	1:A:169:GLU:CB	2.46	0.46
1:A:49:ASP:O	1:A:53:ARG:HB2	2.15	0.46
2:B:61:VAL:HB	5:E:41:GLU:N	2.31	0.46
3:C:317:ILE:O	3:C:321:VAL:HG12	2.16	0.46
3:C:402:LYS:HG2	3:C:553:ILE:HG21	1.98	0.46
6:F:24:PRO:HB2	6:F:28:HIS:HB3	1.98	0.46
6:F:198:GLU:HA	6:F:201:LYS:CG	2.45	0.46
6:F:444:GLN:O	6:F:448:GLN:HG3	2.16	0.46
7:G:90:LYS:HA	7:G:118:ASP:C	2.41	0.46
7:G:167:SER:HB2	14:Q:26:ILE:O	2.15	0.46
8:H:346:GLU:O	8:H:350:SER:HB3	2.16	0.46
8:H:775:ILE:HG12	8:H:778:ARG:NH2	2.31	0.46
11:K:292:LEU:HA	11:K:295:LYS:HG2	1.98	0.46
12:L:325:ARG:HD2	12:L:460:MET:HE2	1.97	0.46
12:L:760:LYS:HE2	12:L:793:PHE:CD2	2.50	0.46
12:L:803:GLU:HG3	12:L:804:GLU:N	2.30	0.46
13:P:284:ASN:CA	13:P:292:ILE:HD11	2.40	0.46
15:S:107:ILE:HD11	15:s:103:LYS:HB3	1.98	0.46
1:A:38:ASN:ND2	2:B:124:LEU:HD22	2.30	0.46
1:A:90:LEU:C	1:A:94:MET:HE3	2.40	0.46
2:B:62:THR:HG1	9:i:179:ASN:ND2	2.12	0.46
3:C:327:ALA:O	3:C:331:LYS:HG2	2.15	0.46
5:E:207:GLU:OE1	5:E:211:ARG:NH2	2.49	0.46
6:F:25:LEU:HG	6:F:27:GLN:H	1.81	0.46
6:F:51:VAL:O	6:F:55:ILE:HG13	2.15	0.46
6:F:65:ILE:CD1	6:F:107:LEU:HD23	2.43	0.46
6:F:319:LEU:O	6:F:347:LEU:HG	2.16	0.46
7:G:285:PHE:HB2	7:G:312:GLU:O	2.16	0.46
8:H:69:LYS:O	8:H:73:VAL:HG23	2.15	0.46
8:H:147:ASN:O	8:H:283:VAL:HG23	2.16	0.46
8:H:325:ASN:CG	8:H:327:LEU:H	2.24	0.46
8:H:355:TYR:CE2	8:H:358:LEU:HG	2.48	0.46
8:H:456:GLN:NE2	8:H:464:LYS:HE3	2.31	0.46
8:H:813:PHE:O	8:H:817:ILE:HG12	2.15	0.46
9:I:102:LEU:HD21	9:I:160:ILE:HG21	1.98	0.46
10:J:126:LEU:HD13	10:J:138:PHE:CE2	2.50	0.46
10:J:305:LEU:HB3	11:K:373:PHE:HE2	1.81	0.46
11:K:76:TYR:HB2	11:K:173:ILE:HG22	1.97	0.46
12:L:127:PRO:HB3	12:L:534:GLN:HG3	1.97	0.46
12:L:678:PHE:CZ	12:L:696:LYS:HA	2.51	0.46
12:L:760:LYS:CE	12:L:789:ILE:HG23	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:P:132:ARG:CZ	13:P:140:VAL:HG13	2.44	0.46
13:P:264:ILE:N	14:R:160:LYS:HB3	2.31	0.46
13:P:315:LEU:HB2	14:R:175:ALA:CB	2.45	0.46
14:Q:156:VAL:HG22	14:Q:189:ARG:NH1	2.31	0.46
14:R:85:GLU:O	14:R:89:LEU:HG	2.16	0.46
15:S:103:LYS:HE2	15:s:103:LYS:CB	2.46	0.46
2:B:71:TYR:HD1	2:B:74:LYS:HD2	1.79	0.46
3:C:140:ILE:CG2	3:C:157:ILE:HD11	2.22	0.46
4:D:191:VAL:HG13	5:E:182:LEU:CD2	2.46	0.46
5:E:38:ARG:C	5:E:40:ASN:N	2.71	0.46
6:F:171:THR:HG21	6:F:213:ALA:HB3	1.98	0.46
6:F:188:MET:HG2	6:F:214:ASN:CB	2.42	0.46
6:F:265:LEU:C	6:F:294:ASN:HD22	2.18	0.46
7:G:28:LYS:CE	7:G:71:ILE:HG12	2.45	0.46
7:G:135:PRO:CD	7:G:136:GLN:N	2.71	0.46
8:H:139:GLN:HA	8:H:199:ARG:HH12	1.81	0.46
8:H:413:ILE:HG22	8:H:414:ASP:N	2.29	0.46
8:H:450:GLN:OE1	8:H:452:ILE:HD11	2.16	0.46
8:H:455:PHE:CG	8:H:460:ARG:HA	2.50	0.46
8:H:456:GLN:CB	8:H:462:LYS:HE3	2.45	0.46
8:H:676:CYS:SG	8:H:680:LEU:HD11	2.56	0.46
10:J:61:LEU:O	10:J:65:LEU:N	2.49	0.46
10:J:302:LEU:CD1	11:K:366:VAL:HA	2.45	0.46
11:K:291:HIS:HA	11:K:294:LYS:CE	2.43	0.46
12:L:160:TYR:CD2	12:L:515:GLU:HB2	2.51	0.46
12:L:637:PRO:HB3	12:L:692:PHE:CE2	2.51	0.46
12:L:756:PHE:HD2	12:L:789:ILE:CD1	2.24	0.46
13:P:291:ASP:HB2	14:R:202:ARG:HH12	1.81	0.46
13:P:291:ASP:CA	14:R:202:ARG:HH12	2.29	0.46
14:Q:37:ASP:CB	14:Q:41:PHE:CD2	2.91	0.46
14:R:57:PHE:CE2	14:R:72:GLU:HG2	2.51	0.46
15:S:57:LEU:HG	15:s:57:LEU:CD1	2.46	0.46
15:S:121:TYR:CD2	15:s:121:TYR:HD2	2.33	0.46
1:A:43:LYS:HG2	6:F:327:GLN:HE22	1.80	0.46
1:A:254:ASP:OD1	1:A:254:ASP:C	2.58	0.46
2:B:36:PHE:O	2:B:40:LYS:HB2	2.16	0.46
3:C:83:LEU:HD22	3:C:85:ARG:HH12	1.80	0.46
3:C:284:ASN:HB2	3:C:291:LYS:HZ2	1.81	0.46
6:F:131:GLN:OE1	6:F:161:TYR:OH	2.28	0.46
6:F:295:LEU:CB	6:F:323:VAL:HG12	2.27	0.46
7:G:76:THR:CA	7:G:107:LYS:HE2	2.43	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:90:LYS:O	7:G:90:LYS:HG2	2.15	0.46
8:H:143:LEU:O	8:H:146:PRO:HG3	2.15	0.46
8:H:191:LYS:HA	8:H:282:ARG:O	2.15	0.46
8:H:612:ILE:HD13	8:H:673:GLU:OE1	2.16	0.46
9:I:33:LYS:HE3	9:I:36:ILE:CD1	2.46	0.46
9:I:158:ASP:OD2	9:I:162:ARG:NH2	2.48	0.46
10:J:11:ILE:HA	10:J:14:ARG:HG2	1.96	0.46
10:J:356:ASP:HB2	14:Q:47:LYS:CA	2.45	0.46
11:K:72:THR:HA	11:K:75:ILE:CD1	2.39	0.46
12:L:277:GLU:HG3	12:L:277:GLU:O	2.16	0.46
12:L:756:PHE:CB	12:L:789:ILE:HD13	2.45	0.46
12:L:784:SER:HA	12:L:787:MET:CE	2.46	0.46
13:P:317:LEU:HD22	14:R:162:LEU:HD22	1.98	0.46
13:P:322:ARG:O	13:P:322:ARG:CG	2.64	0.46
9:i:10:GLU:HA	9:i:13:LYS:CD	2.46	0.46
1:A:16:SER:HG	2:B:149:PHE:HZ	1.59	0.46
1:A:117:GLU:O	1:A:121:ARG:HB2	2.16	0.46
2:B:172:LYS:HD2	2:B:172:LYS:C	2.41	0.46
2:B:259:LYS:O	2:B:263:GLN:HG3	2.16	0.46
3:C:410:ILE:O	3:C:414:GLU:OE1	2.33	0.46
5:E:10:LYS:CG	9:I:5:ASN:HB2	2.46	0.46
7:G:64:GLY:O	7:G:68:VAL:HG23	2.15	0.46
7:G:171:LYS:HG2	7:G:200:LYS:HB3	1.98	0.46
8:H:441:PRO:O	8:H:442:TYR:HB2	2.15	0.46
10:J:205:ALA:HB1	11:K:269:LYS:CB	2.46	0.46
10:J:264:ASP:O	10:J:268:GLN:HG3	2.16	0.46
11:K:76:TYR:CD1	11:K:174:LYS:HA	2.51	0.46
12:L:89:VAL:HA	12:L:601:LEU:HD21	1.98	0.46
12:L:168:GLU:CB	12:L:523:ILE:HD11	2.46	0.46
12:L:284:GLN:OE1	12:L:287:ARG:HD3	2.15	0.46
12:L:525:ALA:O	12:L:626:HIS:HB3	2.16	0.46
13:P:209:TYR:O	13:P:212:LEU:N	2.49	0.46
13:P:282:ILE:HD12	14:R:174:GLN:HG3	1.97	0.46
14:R:37:ASP:OD1	14:R:38:PHE:N	2.49	0.46
15:S:100:VAL:O	15:s:103:LYS:HE3	2.16	0.46
15:s:34:GLN:O	15:s:38:HIS:ND1	2.48	0.46
15:s:100:VAL:HA	15:s:103:LYS:HZ3	1.81	0.46
1:A:43:LYS:HZ3	6:F:297:LEU:HA	1.81	0.45
3:C:110:TRP:HD1	3:C:132:ASP:OD2	1.99	0.45
3:C:545:ASN:ND2	8:H:630:ILE:HD12	2.32	0.45
6:F:31:VAL:C	6:F:34:VAL:HG22	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:93:ILE:HB	6:F:102:TRP:CZ3	2.37	0.45
6:F:211:ILE:HB	6:F:216:ILE:HD11	1.98	0.45
6:F:306:LYS:HE2	6:F:335:LYS:CE	2.35	0.45
7:G:39:LEU:CD1	7:G:59:LEU:HB3	2.45	0.45
7:G:179:ILE:O	7:G:207:LEU:N	2.48	0.45
7:G:299:ILE:HD12	7:G:325:LYS:HB2	1.98	0.45
8:H:191:LYS:HE2	8:H:319:CYS:CB	2.39	0.45
10:J:354:TRP:HB3	14:Q:112:VAL:HB	1.99	0.45
10:J:355:LYS:CB	14:Q:38:PHE:CZ	2.91	0.45
11:K:64:ILE:HD11	11:K:198:MET:SD	2.56	0.45
11:K:254:GLU:HG3	11:K:257:LYS:HE3	1.98	0.45
12:L:660:VAL:O	12:L:664:PHE:N	2.41	0.45
13:P:392:ARG:HG3	13:P:393:LYS:H	1.79	0.45
14:R:65:ILE:HG12	14:R:103:ILE:HG13	1.97	0.45
15:S:50:GLU:HA	15:s:53:LEU:HD12	1.97	0.45
3:C:297:ARG:O	3:C:297:ARG:HD3	2.15	0.45
6:F:285:LYS:HD2	6:F:311:ASP:O	2.16	0.45
7:G:126:CYS:HB3	7:G:158:GLN:HB2	1.97	0.45
7:G:213:VAL:O	7:G:217:PHE:HD1	1.99	0.45
8:H:52:GLU:O	8:H:55:GLU:HB2	2.16	0.45
8:H:790:LYS:HG3	8:H:804:GLN:OE1	2.17	0.45
9:I:35:GLY:HA2	9:I:77:TYR:HB2	1.99	0.45
10:J:55:TYR:O	10:J:59:VAL:HG23	2.17	0.45
10:J:175:GLN:HA	10:J:178:LYS:HE3	1.98	0.45
12:L:38:LYS:HG3	12:L:39:TYR:N	2.31	0.45
12:L:105:TYR:HE1	12:L:543:ILE:HA	1.80	0.45
12:L:210:GLU:OE1	12:L:213:LYS:HE3	2.15	0.45
12:L:271:GLU:CD	12:L:271:GLU:H	2.25	0.45
12:L:668:ILE:HD11	12:L:715:VAL:HB	1.98	0.45
12:L:851:ASP:O	12:L:853:GLN:NE2	2.49	0.45
13:P:144:LEU:HD13	13:P:362:GLN:HG3	1.98	0.45
13:P:174:TYR:CE1	13:P:360:PRO:HG3	2.52	0.45
13:P:270:MET:HE2	13:P:275:PHE:HB2	1.97	0.45
13:P:282:ILE:HD12	14:R:174:GLN:N	2.31	0.45
13:P:322:ARG:N	14:R:169:ARG:N	2.56	0.45
14:R:93:PHE:CE2	14:R:111:ILE:HD11	2.49	0.45
2:B:104:ALA:O	2:B:108:MET:HG2	2.17	0.45
3:C:426:LYS:CE	8:H:230:GLU:HB2	2.47	0.45
6:F:52:ARG:O	6:F:56:ILE:HG13	2.17	0.45
6:F:131:GLN:HG2	6:F:135:LYS:HE3	1.98	0.45
6:F:328:PHE:CB	6:F:332:THR:HG21	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:370:THR:HG22	6:F:370:THR:O	2.17	0.45
8:H:53:PHE:CG	8:H:162:TRP:HZ2	2.34	0.45
8:H:556:VAL:CG1	8:H:559:ARG:HE	2.29	0.45
8:H:589:THR:CB	8:H:615:ILE:HD11	2.46	0.45
9:I:23:GLN:HB2	9:I:77:TYR:OH	2.15	0.45
10:J:112:VAL:HA	11:K:202:LEU:CD1	2.43	0.45
10:J:217:ARG:HD2	10:J:217:ARG:C	2.41	0.45
10:J:353:GLU:O	10:J:353:GLU:HG2	2.17	0.45
11:K:247:PHE:CZ	11:K:251:LYS:HG3	2.51	0.45
12:L:156:LEU:CD1	12:L:511:ALA:HA	2.46	0.45
12:L:192:GLU:HG3	12:L:196:GLN:NE2	2.32	0.45
12:L:392:GLU:HG2	12:L:393:LEU:N	2.32	0.45
13:P:313:PHE:CG	14:R:160:LYS:HE3	2.51	0.45
14:Q:85:GLU:HA	14:Q:88:GLU:OE1	2.16	0.45
9:i:91:ARG:HB3	9:i:94:GLU:CG	2.46	0.45
15:s:70:ARG:O	15:s:74:ILE:HG22	2.16	0.45
1:A:251:GLU:O	1:A:254:ASP:OD1	2.34	0.45
5:E:238:THR:O	5:E:241:ASN:ND2	2.50	0.45
7:G:169:LEU:HD21	7:G:171:LYS:O	2.16	0.45
8:H:607:ILE:HG12	8:H:623:TYR:CZ	2.51	0.45
8:H:694:ILE:HG22	8:H:694:ILE:O	2.17	0.45
8:H:763:GLN:HE22	8:H:767:GLU:HG3	1.81	0.45
9:I:8:GLN:OE1	9:I:8:GLN:N	2.48	0.45
10:J:11:ILE:CG2	11:K:153:GLU:HG3	2.46	0.45
10:J:197:ARG:NE	10:J:197:ARG:HA	2.31	0.45
10:J:231:GLN:HE22	11:K:294:LYS:CE	2.26	0.45
10:J:237:LYS:HD3	11:K:302:LEU:HD11	1.97	0.45
11:K:411:ILE:HG23	14:Q:144:PRO:CB	2.45	0.45
12:L:15:ASN:HA	12:L:18:MET:CE	2.44	0.45
12:L:15:ASN:HA	12:L:18:MET:HG2	1.97	0.45
12:L:16:ASP:HB2	12:L:60:ILE:HG12	1.99	0.45
12:L:236:ALA:CA	9:i:104:ALA:HB1	2.47	0.45
12:L:610:MET:HG3	12:L:740:TYR:CD1	2.50	0.45
13:P:205:MET:HE3	13:P:205:MET:HB2	1.83	0.45
13:P:209:TYR:O	13:P:212:LEU:HB2	2.16	0.45
13:P:327:TYR:HE2	13:P:359:THR:HG1	1.64	0.45
14:R:77:VAL:O	14:R:78:ASN:HB2	2.16	0.45
15:S:136:LYS:HB3	15:S:136:LYS:HE2	1.74	0.45
9:i:17:PHE:CZ	9:i:178:TYR:HA	2.52	0.45
1:A:41:PHE:CE1	1:A:45:LYS:HE2	2.51	0.45
1:A:108:LYS:HD3	1:A:112:ARG:HH12	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:188:HIS:CE1	1:A:191:LEU:HD22	2.51	0.45
3:C:398:THR:HG21	3:C:560:ILE:CD1	2.46	0.45
6:F:20:LYS:N	6:F:20:LYS:HD2	2.31	0.45
6:F:372:ASN:HD21	6:F:375:LEU:HB2	1.81	0.45
7:G:217:PHE:O	7:G:221:LYS:HG3	2.17	0.45
7:G:219:ALA:O	7:G:222:VAL:HG22	2.17	0.45
7:G:237:ASP:OD1	7:G:289:ASN:ND2	2.50	0.45
7:G:322:ILE:HG21	12:L:471:ARG:CZ	2.46	0.45
8:H:50:CYS:HB3	8:H:103:GLU:HA	1.96	0.45
8:H:265:ILE:HG22	8:H:266:ASN:N	2.31	0.45
9:I:143:PHE:HE2	12:L:199:GLU:OE1	1.99	0.45
10:J:32:LEU:CD2	10:J:113:LYS:HE2	2.46	0.45
10:J:174:ASN:O	10:J:178:LYS:HG3	2.16	0.45
11:K:226:LEU:HD23	11:K:229:LYS:HD2	1.99	0.45
12:L:242:LYS:HE2	9:i:54:SER:N	2.31	0.45
12:L:328:ARG:HD3	12:L:461:ILE:HB	1.99	0.45
12:L:769:PRO:O	12:L:772:THR:OG1	2.19	0.45
14:Q:36:GLN:O	14:Q:40:LYS:CB	2.65	0.45
15:s:58:PHE:CZ	15:s:62:LYS:HG3	2.51	0.45
3:C:335:ILE:HG12	3:C:431:ALA:CB	2.47	0.45
6:F:259:ASN:ND2	6:F:262:LEU:HB2	2.31	0.45
7:G:209:LYS:O	7:G:213:VAL:HG13	2.16	0.45
7:G:308:ILE:HG21	7:G:311:MET:HG3	1.98	0.45
8:H:52:GLU:HG2	8:H:55:GLU:OE1	2.17	0.45
8:H:124:LEU:HG	8:H:177:LEU:HD12	1.97	0.45
8:H:140:TYR:OH	8:H:167:CYS:N	2.49	0.45
8:H:147:ASN:C	8:H:283:VAL:HG23	2.42	0.45
8:H:204:MET:HE2	8:H:310:TYR:OH	2.17	0.45
10:J:151:ARG:HG3	10:J:155:LEU:HD21	1.99	0.45
11:K:84:LYS:CE	11:K:93:LYS:HD3	2.47	0.45
11:K:251:LYS:HA	11:K:251:LYS:HD3	1.80	0.45
11:K:299:ASP:O	11:K:303:GLN:NE2	2.50	0.45
11:K:403:ARG:HG2	14:R:45:GLU:HG2	1.97	0.45
12:L:236:ALA:HA	9:i:104:ALA:CB	2.46	0.45
12:L:386:LYS:HG3	12:L:387:LYS:H	1.82	0.45
12:L:677:ILE:HD12	12:L:695:MET:HE3	1.95	0.45
12:L:830:LYS:O	12:L:834:GLN:HG3	2.16	0.45
13:P:182:LEU:HD11	13:P:243:VAL:HG13	1.98	0.45
13:P:251:LEU:HD23	13:P:329:THR:CG2	2.46	0.45
1:A:31:ILE:O	1:A:32:ASN:HB2	2.16	0.45
1:A:228:MET:HE3	2:B:222:LEU:HD13	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:246:TYR:CD2	2:B:240:PHE:HD1	2.35	0.45
1:A:260:LEU:HD23	2:B:254:TYR:HB2	1.98	0.45
2:B:61:VAL:HG11	5:E:41:GLU:HG3	1.96	0.45
3:C:318:ASN:O	3:C:321:VAL:HG12	2.16	0.45
6:F:65:ILE:CG1	6:F:107:LEU:HD23	2.47	0.45
6:F:200:ILE:CG2	6:F:228:VAL:HG22	2.27	0.45
6:F:291:GLN:O	6:F:318:LEU:HD12	2.17	0.45
6:F:334:LEU:CD2	6:F:364:ASN:HB3	2.46	0.45
7:G:91:VAL:HG22	7:G:119:ASN:OD1	2.17	0.45
7:G:178:ALA:HA	7:G:207:LEU:HD23	1.98	0.45
8:H:45:GLU:O	8:H:49:ARG:HG3	2.16	0.45
8:H:102:ASN:C	8:H:152:VAL:HG13	2.41	0.45
8:H:143:LEU:HG	8:H:166:ASP:HB2	1.99	0.45
8:H:557:ILE:O	8:H:558:TYR:HD1	1.99	0.45
11:K:64:ILE:CD1	11:K:198:MET:SD	3.04	0.45
11:K:272:LYS:HA	11:K:272:LYS:HD3	1.74	0.45
12:L:169:GLU:CD	12:L:618:THR:HG21	2.40	0.45
12:L:236:ALA:HA	9:i:104:ALA:HB1	1.99	0.45
12:L:245:ARG:HB3	9:i:47:ARG:CZ	2.47	0.45
12:L:251:LYS:HA	9:i:166:PHE:HZ	1.81	0.45
13:P:328:TYR:HA	13:P:355:LEU:HA	1.99	0.45
14:R:182:ILE:HG21	14:R:190:ILE:CD1	2.47	0.45
9:i:105:PHE:HD2	9:i:160:ILE:HD11	1.79	0.45
1:A:141:ILE:CD1	2:B:134:LEU:HD22	2.46	0.45
1:A:202:THR:HG22	1:A:206:GLN:NE2	2.15	0.45
2:B:46:LYS:CG	5:E:28:LEU:HD11	2.46	0.45
2:B:52:ALA:O	2:B:54:ILE:HG13	2.17	0.45
2:B:137:LEU:HD23	4:D:126:LYS:HE2	1.99	0.45
2:B:245:SER:O	2:B:249:LYS:HG2	2.17	0.45
2:B:263:GLN:HB3	2:B:267:ARG:NH1	2.32	0.45
3:C:72:LYS:O	3:C:72:LYS:HD3	2.16	0.45
3:C:152:LEU:HB2	3:C:188:PHE:CE1	2.41	0.45
3:C:375:TRP:CZ2	3:C:566:GLN:HG3	2.52	0.45
4:D:196:ARG:NH1	8:H:498:TYR:HE1	2.14	0.45
6:F:149:ILE:HG22	6:F:150:ASN:N	2.32	0.45
6:F:211:ILE:C	6:F:214:ASN:HD22	2.22	0.45
7:G:187:ILE:HA	7:G:190:ILE:HD12	1.98	0.45
7:G:193:PHE:CD2	7:G:195:ASN:HB2	2.51	0.45
7:G:197:ASN:CG	14:Q:27:ILE:HD11	2.42	0.45
8:H:8:TYR:CD2	8:H:8:TYR:CB	2.82	0.45
8:H:91:GLU:OE1	8:H:333:MET:HG3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:214:TYR:HB2	8:H:481:ARG:HD3	1.99	0.45
8:H:330:TRP:HE1	8:H:348:ASP:CG	2.22	0.45
8:H:579:GLN:O	8:H:688:ARG:NH2	2.49	0.45
8:H:612:ILE:HG21	8:H:673:GLU:OE2	2.17	0.45
10:J:11:ILE:HD13	11:K:153:GLU:HB2	1.99	0.45
10:J:231:GLN:NE2	11:K:291:HIS:O	2.50	0.45
10:J:283:GLN:O	10:J:287:GLU:CD	2.60	0.45
10:J:351:TYR:HE2	10:J:354:TRP:CG	2.35	0.45
11:K:427:LYS:CA	14:Q:161:GLU:OE2	2.65	0.45
12:L:123:LEU:CD1	12:L:125:LEU:HD23	2.47	0.45
12:L:236:ALA:CB	9:i:104:ALA:HB1	2.47	0.45
12:L:827:LYS:HZ1	12:L:830:LYS:HD2	1.82	0.45
13:P:320:GLN:C	14:R:169:ARG:HA	2.42	0.45
1:A:37:LYS:HA	1:A:40:ARG:HG3	1.98	0.45
1:A:141:ILE:HA	1:A:144:MET:CG	2.47	0.45
2:B:36:PHE:CE1	2:B:40:LYS:HE2	2.52	0.45
2:B:50:LEU:HB2	4:D:44:ALA:HB2	1.99	0.45
3:C:348:GLU:HG2	8:H:226:LEU:CD2	2.47	0.45
3:C:358:LEU:HD13	3:C:362:LYS:NZ	2.32	0.45
6:F:230:MET:N	6:F:230:MET:SD	2.90	0.45
6:F:287:ASN:ND2	6:F:290:LEU:HB2	2.31	0.45
6:F:320:GLU:OE2	6:F:349:VAL:HG21	2.17	0.45
6:F:324:SER:HA	6:F:353:ALA:O	2.17	0.45
6:F:414:GLN:CA	6:F:417:ILE:HG12	2.45	0.45
7:G:109:LYS:NZ	7:G:137:ILE:O	2.33	0.45
7:G:137:ILE:HG22	7:G:139:ILE:HG23	1.97	0.45
7:G:238:THR:OG1	7:G:290:ILE:HA	2.17	0.45
8:H:49:ARG:NH2	8:H:164:LYS:O	2.49	0.45
8:H:456:GLN:HB2	8:H:462:LYS:CE	2.47	0.45
8:H:779:ARG:NE	8:H:818:LEU:HD21	2.31	0.45
11:K:73:ILE:HG22	11:K:77:LEU:HD12	1.98	0.45
11:K:403:ARG:CG	14:R:45:GLU:HG2	2.46	0.45
12:L:10:TRP:HZ3	12:L:71:LEU:HD21	1.81	0.45
12:L:15:ASN:CA	12:L:18:MET:HE3	2.45	0.45
12:L:64:LEU:HD13	12:L:83:MET:SD	2.56	0.45
12:L:149:ARG:HD2	12:L:631:ILE:HG13	1.99	0.45
12:L:328:ARG:HD3	12:L:461:ILE:HG13	1.96	0.45
13:P:158:VAL:HG12	13:P:236:ASP:HB3	1.99	0.45
13:P:283:MET:H	13:P:326:GLU:CD	2.23	0.45
13:P:313:PHE:O	14:R:160:LYS:HD2	2.17	0.45
14:R:121:LYS:HE2	14:R:168:ASN:HD22	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:S:128:LYS:HE2	15:s:125:LEU:HG	1.99	0.45
1:A:49:ASP:OD1	1:A:50:GLU:N	2.50	0.45
1:A:163:GLU:O	1:A:166:PHE:HB2	2.16	0.45
1:A:282:LYS:HD2	2:B:275:LYS:NZ	2.27	0.45
4:D:189:ARG:HD3	8:H:497:LYS:HG2	1.99	0.45
4:D:267:LEU:HD13	5:E:251:LYS:HE3	1.98	0.45
7:G:112:GLU:HG2	7:G:140:PRO:HB2	1.99	0.45
7:G:178:ALA:HA	7:G:206:ASN:HA	1.99	0.45
7:G:187:ILE:HD12	7:G:187:ILE:H	1.82	0.45
8:H:400:LEU:C	8:H:401:LEU:HD22	2.42	0.45
8:H:848:ALA:HB1	8:H:852:LYS:NZ	2.32	0.45
9:I:55:GLU:O	9:I:58:VAL:HG12	2.17	0.45
9:I:116:ILE:HG22	9:I:121:MET:HG3	1.99	0.45
9:I:136:GLU:HG2	12:L:196:GLN:OE1	2.17	0.45
10:J:198:LEU:CD1	11:K:265:VAL:HG21	2.47	0.45
10:J:208:LYS:HE2	10:J:208:LYS:HA	1.99	0.45
10:J:352:GLN:OE1	14:Q:119:ASN:HB3	2.16	0.45
12:L:183:THR:O	12:L:187:ILE:HG13	2.17	0.45
12:L:765:PRO:HB2	12:L:768:PHE:HB2	1.98	0.45
13:P:151:GLN:O	13:P:155:GLU:HG3	2.16	0.45
13:P:285:VAL:HB	13:P:323:MET:CG	2.43	0.45
13:P:389:GLU:CA	13:P:392:ARG:HG2	2.36	0.45
14:Q:128:ALA:HB1	14:Q:166:LEU:CB	2.39	0.45
14:Q:202:ARG:HG2	14:Q:202:ARG:OXT	2.16	0.45
15:S:113:GLN:HB3	15:S:117:MET:CE	2.37	0.45
15:S:135:LEU:HD11	15:s:132:ILE:HG23	1.98	0.45
9:i:27:ASN:CG	9:i:34:LYS:HE3	2.42	0.45
1:A:276:ARG:HG3	1:A:277:LYS:N	2.32	0.44
2:B:17:GLY:O	2:B:18:ILE:C	2.60	0.44
2:B:53:ARG:HG3	5:E:32:LEU:HD23	1.99	0.44
2:B:62:THR:O	9:i:177:GLY:HA2	2.17	0.44
2:B:178:LEU:HD13	4:D:170:PHE:CZ	2.52	0.44
2:B:229:TYR:O	2:B:230:TYR:HB3	2.17	0.44
3:C:313:TYR:HA	3:C:316:LYS:NZ	2.33	0.44
4:D:142:ILE:HD13	4:D:145:ARG:NH1	2.32	0.44
6:F:208:SER:OG	6:F:236:GLU:HB2	2.17	0.44
6:F:334:LEU:HD21	6:F:364:ASN:CG	2.42	0.44
7:G:196:THR:HA	14:Q:24:LYS:O	2.16	0.44
8:H:6:GLY:C	8:H:8:TYR:N	2.75	0.44
8:H:214:TYR:HD2	8:H:483:TYR:HH	1.64	0.44
8:H:357:MET:HE1	8:H:401:LEU:HB2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:534:LEU:HD12	8:H:535:ILE:H	1.82	0.44
8:H:676:CYS:O	8:H:680:LEU:HG	2.17	0.44
8:H:785:GLN:HA	8:H:788:GLU:CD	2.42	0.44
10:J:177:ASN:OD1	11:K:240:LEU:HD22	2.18	0.44
10:J:191:ILE:HD13	11:K:254:GLU:CD	2.42	0.44
10:J:255:LEU:HD11	11:K:320:GLU:HG3	1.98	0.44
10:J:300:GLU:HA	10:J:303:ARG:HD2	1.98	0.44
10:J:319:ARG:HA	10:J:322:GLN:CG	2.48	0.44
11:K:150:MET:SD	11:K:151:GLN:N	2.90	0.44
11:K:156:PHE:O	11:K:160:VAL:HG23	2.17	0.44
12:L:17:LEU:HD23	12:L:416:ILE:CG1	2.47	0.44
12:L:821:THR:HB	12:L:826:PHE:CZ	2.52	0.44
13:P:134:HIS:O	13:P:135:ARG:NH1	2.47	0.44
13:P:140:VAL:HB	13:P:229:ILE:CB	2.47	0.44
13:P:321:ASP:C	14:R:169:ARG:HB2	2.42	0.44
13:P:356:ARG:NH1	14:R:12:VAL:HB	2.24	0.44
14:Q:27:ILE:O	14:Q:27:ILE:HG22	2.16	0.44
14:Q:160:LYS:O	14:Q:164:MET:HE1	2.17	0.44
15:S:103:LYS:HE2	15:s:103:LYS:HB2	1.98	0.44
15:S:110:LYS:HE3	15:s:106:GLU:O	2.17	0.44
1:A:75:GLU:HG2	1:A:78:TRP:CZ3	2.52	0.44
1:A:147:GLN:O	1:A:151:ILE:HD12	2.18	0.44
1:A:201:LYS:HA	1:A:201:LYS:HE3	2.00	0.44
2:B:47:ARG:HA	2:B:50:LEU:CG	2.48	0.44
2:B:261:ARG:HH21	2:B:264:GLU:CD	2.24	0.44
3:C:90:GLN:CD	3:C:112:ASP:HB3	2.42	0.44
3:C:119:LYS:HG2	3:C:139:TYR:CD2	2.52	0.44
3:C:282:LEU:HB3	3:C:285:LEU:CD1	2.47	0.44
5:E:53:ARG:HA	5:E:56:VAL:HG12	1.99	0.44
6:F:32:GLU:O	6:F:36:GLN:HG3	2.17	0.44
6:F:285:LYS:HE3	6:F:314:LEU:HB2	1.99	0.44
7:G:158:GLN:OE1	7:G:158:GLN:HA	2.17	0.44
8:H:291:SER:HA	8:H:296:VAL:HG12	1.99	0.44
8:H:509:GLN:HB3	8:H:525:TYR:HE2	1.82	0.44
8:H:549:TYR:HE2	8:H:559:ARG:HD2	1.82	0.44
8:H:583:VAL:O	8:H:583:VAL:HG12	2.16	0.44
11:K:102:LEU:HD11	11:K:176:MET:HE1	1.99	0.44
11:K:341:TYR:O	11:K:342:ASP:C	2.60	0.44
12:L:442:LYS:HA	12:L:442:LYS:HE2	1.98	0.44
12:L:610:MET:HG3	12:L:740:TYR:HD1	1.82	0.44
12:L:738:LYS:CE	12:L:837:THR:HG23	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:P:158:VAL:HG12	13:P:236:ASP:CG	2.42	0.44
14:Q:136:VAL:CG1	14:Q:154:ILE:HB	2.48	0.44
14:Q:200:MET:HG3	14:Q:200:MET:O	2.16	0.44
15:S:96:LEU:HB3	15:s:96:LEU:CB	2.44	0.44
15:S:139:ILE:C	15:S:142:MET:HG3	2.42	0.44
9:i:46:MET:SD	9:i:53:PRO:HG3	2.57	0.44
9:i:81:GLU:CB	9:i:82:PRO:HD3	2.44	0.44
1:A:74:LEU:O	1:A:74:LEU:HD23	2.17	0.44
3:C:161:ARG:CZ	3:C:163:LYS:HE2	2.47	0.44
3:C:214:ILE:C	3:C:217:ILE:H	2.26	0.44
3:C:302:LYS:HZ2	3:C:304:ASN:HB2	1.83	0.44
6:F:331:GLU:O	6:F:335:LYS:HG2	2.17	0.44
6:F:332:THR:HG22	6:F:336:LEU:HD23	1.99	0.44
7:G:39:LEU:CD1	7:G:59:LEU:HD22	2.46	0.44
7:G:129:LEU:HD13	7:G:146:LEU:CD1	2.47	0.44
8:H:54:LYS:O	8:H:59:ILE:HD11	2.17	0.44
8:H:84:PHE:CD2	8:H:96:LEU:HD11	2.52	0.44
8:H:117:THR:CB	8:H:411:ILE:H	2.28	0.44
8:H:168:PHE:CE1	8:H:189:TYR:HB3	2.52	0.44
8:H:562:ARG:CD	8:H:590:LYS:HD3	2.20	0.44
10:J:12:ILE:HD11	11:K:156:PHE:CE2	2.52	0.44
10:J:151:ARG:HH11	10:J:151:ARG:H	1.63	0.44
12:L:103:THR:HB	12:L:107:ALA:O	2.17	0.44
12:L:726:CYS:HB3	12:L:731:ILE:HD11	1.95	0.44
12:L:750:MET:HE1	12:L:754:LYS:NZ	2.32	0.44
12:L:757:LEU:HA	12:L:760:LYS:HG2	2.00	0.44
13:P:157:LEU:HD12	13:P:241:VAL:HG11	1.99	0.44
13:P:256:ILE:HG12	13:P:266:ILE:HG12	1.98	0.44
13:P:291:ASP:CB	14:R:202:ARG:HH22	2.24	0.44
14:Q:93:PHE:HB2	14:Q:103:ILE:CD1	2.42	0.44
15:S:39:GLU:CD	15:s:40:GLN:HG2	2.41	0.44
15:S:158:GLN:NE2	15:S:184:LEU:HD13	2.32	0.44
15:s:71:LEU:HA	15:s:74:ILE:HG22	1.98	0.44
2:B:53:ARG:HH21	5:E:31:THR:C	2.20	0.44
2:B:59:LYS:N	5:E:37:GLU:O	2.50	0.44
3:C:106:VAL:HG11	3:C:126:LYS:HB3	1.99	0.44
3:C:284:ASN:O	3:C:288:GLU:HG2	2.18	0.44
3:C:289:TYR:CZ	3:C:290:LEU:HG	2.51	0.44
3:C:358:LEU:HD12	3:C:359:GLN:N	2.33	0.44
4:D:57:LEU:CG	12:L:771:ASN:HB2	2.44	0.44
5:E:132:THR:HA	5:E:135:MET:HE3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:197:ASN:H	14:Q:26:ILE:H	1.65	0.44
8:H:113:THR:HG22	8:H:113:THR:O	2.17	0.44
8:H:303:GLU:HG3	8:H:310:TYR:HE2	1.81	0.44
8:H:326:ASN:O	8:H:327:LEU:HD22	2.16	0.44
8:H:544:LYS:CG	8:H:562:ARG:HA	2.46	0.44
8:H:545:THR:O	8:H:560:SER:HB2	2.18	0.44
9:I:1:MET:HA	9:I:175:MET:SD	2.57	0.44
11:K:324:LYS:HA	11:K:327:LYS:CE	2.37	0.44
12:L:418:LYS:HZ2	12:L:423:TRP:HZ3	1.62	0.44
12:L:423:TRP:O	12:L:426:ARG:HB2	2.16	0.44
13:P:278:TYR:CD1	13:P:353:LEU:HD11	2.53	0.44
14:Q:77:VAL:CG2	14:Q:79:ILE:HG13	2.36	0.44
9:i:6:THR:HB	9:i:10:GLU:CB	2.47	0.44
1:A:60:ILE:HA	1:A:63:GLU:CD	2.43	0.44
2:B:63:PHE:HB3	9:i:180:ASN:CB	2.46	0.44
2:B:236:MET:HA	2:B:239:LYS:HG3	1.99	0.44
3:C:286:LYS:NZ	3:C:314:CYS:HA	2.33	0.44
6:F:222:ARG:O	6:F:225:MET:HG3	2.16	0.44
7:G:228:LYS:NZ	7:G:309:TYR:HE1	2.15	0.44
9:I:116:ILE:CG2	9:I:121:MET:HG3	2.48	0.44
10:J:352:GLN:HE22	14:Q:120:ASP:H	1.66	0.44
11:K:106:CYS:O	11:K:110:LEU:HG	2.17	0.44
11:K:271:LYS:HZ2	11:K:272:LYS:HE2	1.81	0.44
11:K:346:LYS:O	11:K:347:ASP:C	2.59	0.44
11:K:418:ARG:HD2	14:R:60:ASP:HA	1.99	0.44
11:K:433:LYS:HD3	14:Q:131:LEU:HD11	1.99	0.44
12:L:519:ALA:HB2	12:L:633:LEU:CD2	2.44	0.44
13:P:189:PHE:CE1	13:P:240:ILE:HG23	2.52	0.44
13:P:273:GLU:OE1	14:R:7:LEU:HD23	2.18	0.44
15:S:126:LYS:HD2	15:S:127:LYS:N	2.32	0.44
9:i:178:TYR:O	9:i:178:TYR:CG	2.70	0.44
2:B:60:VAL:O	2:B:60:VAL:CG1	2.56	0.44
3:C:277:ALA:CB	3:C:329:ILE:HG13	2.30	0.44
3:C:305:GLN:OE1	3:C:308:GLU:HB2	2.18	0.44
6:F:228:VAL:HG11	6:F:234:LEU:HD22	1.99	0.44
6:F:429:PHE:HA	6:F:433:ASP:HB3	1.98	0.44
7:G:105:MET:O	7:G:109:LYS:N	2.49	0.44
7:G:144:LEU:HB3	7:G:169:LEU:HD22	1.99	0.44
8:H:488:LYS:CE	8:H:514:ILE:HG21	2.47	0.44
8:H:593:GLN:HB3	8:H:595:PHE:HE1	1.83	0.44
8:H:616:LYS:HZ1	8:H:620:ILE:CG1	2.29	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:635:LYS:HD2	8:H:637:TYR:HE1	1.83	0.44
8:H:762:MET:CE	8:H:837:ASP:HA	2.48	0.44
10:J:9:LEU:HD23	10:J:130:VAL:HG11	2.00	0.44
10:J:312:GLU:CD	11:K:376:ILE:HG21	2.42	0.44
11:K:164:ARG:O	11:K:164:ARG:NE	2.51	0.44
11:K:342:ASP:O	11:K:343:ALA:C	2.60	0.44
12:L:54:TYR:O	12:L:58:ILE:HG13	2.18	0.44
12:L:214:LYS:HA	12:L:217:ARG:CG	2.46	0.44
12:L:230:GLU:OE2	12:L:231:THR:OG1	2.35	0.44
13:P:118:ARG:HH12	13:P:368:LYS:HD2	1.83	0.44
13:P:266:ILE:HG21	14:R:172:GLU:OE1	2.18	0.44
13:P:294:GLY:N	14:R:177:GLU:H	2.04	0.44
13:P:317:LEU:HD11	14:R:165:THR:CB	2.48	0.44
15:S:114:ILE:HD11	15:s:110:LYS:HB3	1.98	0.44
9:i:38:ASP:HA	9:i:74:PHE:CD2	2.43	0.44
1:A:184:THR:HG22	1:A:184:THR:O	2.17	0.44
1:A:212:ASP:OD1	1:A:212:ASP:C	2.60	0.44
1:A:260:LEU:O	1:A:263:LYS:HG2	2.18	0.44
2:B:46:LYS:HE2	5:E:22:SER:OG	2.17	0.44
3:C:161:ARG:NH1	3:C:163:LYS:HG2	2.33	0.44
5:E:131:ILE:CG2	5:E:135:MET:HE2	2.40	0.44
6:F:35:SER:HA	6:F:59:ILE:HG12	2.00	0.44
7:G:58:HIS:HA	7:G:87:ARG:O	2.17	0.44
7:G:179:ILE:CG2	7:G:208:LEU:HD21	2.48	0.44
7:G:317:ILE:HG13	7:G:322:ILE:HD11	2.00	0.44
8:H:578:PHE:CZ	8:H:684:GLU:CB	2.98	0.44
9:I:49:LEU:CD1	9:I:88:LEU:HD11	2.42	0.44
9:I:58:VAL:HG23	9:I:62:ILE:CG2	2.47	0.44
9:I:80:PHE:CZ	9:I:84:MET:HE2	2.52	0.44
10:J:302:LEU:HD13	11:K:366:VAL:CG2	2.48	0.44
11:K:407:ALA:HB2	14:R:48:GLN:CD	2.43	0.44
12:L:157:LEU:CD2	12:L:161:THR:HG21	2.48	0.44
12:L:192:GLU:O	12:L:196:GLN:HG3	2.17	0.44
12:L:204:ALA:HA	12:L:207:LEU:HD21	1.99	0.44
12:L:482:PRO:O	12:L:483:PRO:C	2.61	0.44
12:L:676:TYR:CZ	12:L:688:VAL:HG21	2.52	0.44
13:P:219:ARG:HD2	13:P:219:ARG:C	2.43	0.44
13:P:221:ILE:O	13:P:221:ILE:HG22	2.18	0.44
14:R:74:LEU:HA	14:R:77:VAL:HG22	2.00	0.44
14:R:85:GLU:HG2	14:R:89:LEU:HD11	1.99	0.44
14:R:156:VAL:HG23	14:R:188:GLU:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:i:118:ILE:CG2	9:i:141:ILE:HD13	2.47	0.44
1:A:5:GLN:HB3	1:A:169:GLU:OE2	2.18	0.44
1:A:198:GLU:O	1:A:202:THR:OG1	2.28	0.44
2:B:63:PHE:N	9:i:177:GLY:HA2	2.33	0.44
2:B:215:THR:O	2:B:218:MET:HG2	2.18	0.44
2:B:216:ASN:O	2:B:220:ILE:CD1	2.66	0.44
2:B:237:ASN:OD1	2:B:241:GLN:NE2	2.47	0.44
3:C:60:ILE:CG2	3:C:63:GLN:HG3	2.47	0.44
3:C:366:HIS:O	3:C:370:VAL:HG13	2.18	0.44
3:C:412:LEU:CD1	3:C:416:LEU:HD23	2.48	0.44
6:F:134:LEU:HD23	6:F:161:TYR:HB2	2.00	0.44
7:G:203:MET:HG2	7:G:208:LEU:HD12	1.99	0.44
7:G:299:ILE:HG22	7:G:324:ARG:CZ	2.47	0.44
8:H:73:VAL:HG21	8:H:404:PRO:CG	2.48	0.44
8:H:98:LEU:HD22	8:H:109:PHE:CE1	2.52	0.44
8:H:192:ALA:HB1	8:H:193:PRO:HD2	1.99	0.44
8:H:267:ASP:OD1	8:H:269:GLU:HG2	2.18	0.44
8:H:415:LYS:O	8:H:419:LEU:HD23	2.18	0.44
8:H:454:ILE:HD12	8:H:465:GLU:CB	2.38	0.44
10:J:123:ILE:O	10:J:127:ILE:HG13	2.17	0.44
10:J:319:ARG:O	10:J:322:GLN:HG2	2.18	0.44
10:J:356:ASP:HB3	14:Q:47:LYS:CG	2.48	0.44
11:K:184:LEU:O	11:K:188:VAL:HG23	2.17	0.44
11:K:356:GLU:O	11:K:360:ALA:N	2.50	0.44
12:L:166:PRO:HB2	12:L:523:ILE:CG1	2.47	0.44
12:L:328:ARG:HD3	12:L:461:ILE:HG21	2.00	0.44
12:L:439:GLU:HG3	12:L:440:LEU:H	1.81	0.44
12:L:568:PRO:HG3	12:L:831:LYS:HZ3	1.82	0.44
12:L:723:PRO:HB2	12:L:832:PHE:CD2	2.52	0.44
13:P:140:VAL:HB	13:P:229:ILE:CG2	2.48	0.44
13:P:211:PHE:HA	13:P:217:GLU:OE1	2.18	0.44
13:P:320:GLN:OE1	14:R:165:THR:HB	2.17	0.44
14:Q:1:MET:O	14:Q:4:THR:HG23	2.18	0.44
14:R:54:PHE:CA	14:R:73:LEU:HD12	2.47	0.44
1:A:28:TYR:CZ	6:F:381:ARG:CZ	3.01	0.44
1:A:106:GLU:HA	1:A:109:GLU:OE1	2.18	0.44
1:A:208:LYS:HA	1:A:211:GLU:CG	2.48	0.44
2:B:48:GLU:HG3	4:D:40:MET:SD	2.58	0.44
3:C:207:ASN:C	3:C:207:ASN:OD1	2.60	0.44
3:C:367:GLU:OE2	3:C:394:LEU:HD12	2.18	0.44
4:D:50:GLN:HA	4:D:53:GLU:CD	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:5:LYS:HB3	6:F:18:PHE:CE2	2.52	0.44
6:F:68:MET:CG	6:F:103:LYS:HZ3	2.25	0.44
6:F:211:ILE:HD12	6:F:216:ILE:CD1	2.45	0.44
6:F:321:LEU:HD12	6:F:322:ASP:N	2.33	0.44
6:F:333:ALA:HA	6:F:336:LEU:HD21	2.00	0.44
7:G:90:LYS:HE2	15:s:42:ARG:NH1	2.31	0.44
7:G:192:SER:HB3	14:Q:104:ASN:ND2	2.33	0.44
8:H:8:TYR:CD1	8:H:8:TYR:CB	2.81	0.44
10:J:51:LEU:HD11	10:J:87:ASN:HB3	2.00	0.44
10:J:305:LEU:HD22	11:K:373:PHE:CD2	2.53	0.44
11:K:109:LEU:HB3	11:K:159:LEU:HD13	2.00	0.44
11:K:328:ARG:HH11	11:K:332:ASN:CG	2.20	0.44
11:K:345:MET:O	11:K:346:LYS:C	2.61	0.44
11:K:413:HIS:HD1	14:R:56:LEU:HG	1.83	0.44
12:L:10:TRP:CZ3	12:L:71:LEU:CD2	3.01	0.44
12:L:301:PHE:O	12:L:305:ILE:HG12	2.17	0.44
12:L:308:LEU:O	12:L:312:VAL:HG23	2.17	0.44
13:P:177:LEU:O	13:P:249:LYS:NZ	2.49	0.44
14:R:136:VAL:CG2	14:R:154:ILE:HD12	2.47	0.44
9:i:58:VAL:CB	9:i:62:ILE:HD12	2.48	0.44
9:i:118:ILE:HA	9:i:121:MET:HG2	2.00	0.44
9:i:120:MET:O	9:i:124:PHE:CD2	2.71	0.44
1:A:8:LYS:CE	1:A:169:GLU:HB3	2.48	0.43
1:A:128:LYS:O	1:A:132:GLU:HG3	2.18	0.43
1:A:231:GLU:OE1	1:A:231:GLU:N	2.51	0.43
1:A:246:TYR:O	1:A:249:ILE:HG12	2.17	0.43
3:C:174:TYR:HB2	3:C:216:ALA:CB	2.43	0.43
3:C:209:TYR:O	3:C:213:ILE:HG13	2.18	0.43
3:C:249:THR:O	3:C:253:TYR:HB2	2.17	0.43
3:C:439:ILE:HG21	3:C:520:GLN:HG3	1.98	0.43
6:F:341:ALA:HB2	6:F:371:LYS:HE3	1.99	0.43
8:H:712:ARG:NH1	8:H:712:ARG:HG3	2.31	0.43
9:I:33:LYS:HE3	9:I:36:ILE:HD13	2.00	0.43
10:J:237:LYS:NZ	11:K:302:LEU:HD21	2.33	0.43
10:J:271:ASP:O	10:J:275:LYS:HG3	2.17	0.43
10:J:292:THR:HG23	11:K:355:ILE:HD13	1.98	0.43
11:K:81:LEU:HD11	11:K:94:LEU:HD21	1.99	0.43
11:K:225:GLU:HB3	11:K:229:LYS:CE	2.48	0.43
11:K:324:LYS:O	11:K:325:THR:C	2.61	0.43
12:L:14:ILE:HG22	12:L:18:MET:HE3	2.00	0.43
12:L:58:ILE:CG2	12:L:62:LYS:HE3	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:72:VAL:HG13	12:L:294:GLN:HA	2.00	0.43
12:L:80:LEU:HD23	12:L:80:LEU:O	2.18	0.43
12:L:156:LEU:HD13	12:L:511:ALA:HA	1.99	0.43
12:L:181:MET:O	12:L:185:ILE:HG13	2.18	0.43
12:L:756:PHE:HB2	12:L:789:ILE:HD13	2.00	0.43
12:L:807:LYS:HE2	12:L:807:LYS:HA	1.99	0.43
13:P:277:ILE:HG21	13:P:309:TRP:HB2	1.99	0.43
13:P:295:VAL:CG1	13:P:296:GLY:N	2.81	0.43
14:Q:46:LYS:HD3	14:Q:49:GLN:OE1	2.18	0.43
14:R:187:ASP:O	14:R:189:ARG:HG2	2.18	0.43
15:S:97:ASN:N	15:s:96:LEU:HD13	2.33	0.43
9:i:58:VAL:HA	9:i:62:ILE:CG1	2.48	0.43
9:i:180:ASN:O	9:i:181:PHE:C	2.61	0.43
1:A:101:PHE:HD2	1:A:102:GLN:OE1	2.01	0.43
1:A:197:LYS:O	1:A:201:LYS:HG2	2.18	0.43
3:C:42:ASP:O	3:C:46:GLN:HG3	2.19	0.43
3:C:284:ASN:OD1	3:C:515:ILE:HD13	2.18	0.43
3:C:292:ILE:HG21	3:C:504:ILE:HG23	2.00	0.43
3:C:370:VAL:HA	3:C:373:ARG:HD2	1.99	0.43
3:C:511:SER:O	3:C:515:ILE:HG13	2.18	0.43
4:D:242:ILE:HG13	4:D:243:LYS:N	2.33	0.43
6:F:241:HIS:HA	6:F:269:ASN:HB3	1.99	0.43
6:F:329:GLU:O	6:F:332:THR:N	2.51	0.43
7:G:99:ARG:HD2	7:G:99:ARG:C	2.43	0.43
7:G:118:ASP:HA	7:G:148:HIS:HB2	2.00	0.43
7:G:133:LEU:CD1	7:G:163:LEU:HD21	2.47	0.43
8:H:54:LYS:HE3	8:H:64:ILE:HD11	2.00	0.43
8:H:137:PHE:HA	8:H:421:GLY:O	2.18	0.43
8:H:303:GLU:HG3	8:H:310:TYR:CD2	2.54	0.43
10:J:9:LEU:CD2	10:J:130:VAL:HG21	2.48	0.43
11:K:406:GLU:HB3	14:R:49:GLN:HG2	2.00	0.43
12:L:140:GLU:HG2	12:L:291:LYS:HZ3	1.82	0.43
12:L:253:VAL:HG21	9:i:170:HIS:CE1	2.53	0.43
12:L:301:PHE:HB2	12:L:435:LYS:NZ	2.34	0.43
13:P:171:LYS:CG	13:P:176:ASN:HB3	2.41	0.43
9:i:42:ILE:HB	9:i:43:PRO:HD3	2.00	0.43
1:A:143:LYS:HE2	1:A:143:LYS:HB3	1.72	0.43
1:A:246:TYR:CD2	2:B:240:PHE:HB2	2.51	0.43
2:B:55:LYS:HG3	2:B:60:VAL:CG2	2.44	0.43
2:B:55:LYS:C	5:E:37:GLU:CG	2.91	0.43
2:B:55:LYS:O	5:E:37:GLU:HG3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:148:GLU:HB3	4:D:141:ARG:NH1	2.33	0.43
3:C:266:MET:C	3:C:269:GLN:HG3	2.43	0.43
6:F:218:ASP:CG	6:F:248:GLY:H	2.27	0.43
7:G:69:ARG:HB2	7:G:96:GLU:HG3	2.00	0.43
7:G:132:VAL:HG13	7:G:133:LEU:HD22	1.99	0.43
8:H:156:PRO:CB	8:H:411:ILE:HD11	2.28	0.43
8:H:205:GLU:OE1	8:H:207:LEU:HG	2.18	0.43
8:H:535:ILE:HD11	8:H:550:GLN:CG	2.44	0.43
8:H:763:GLN:NE2	8:H:767:GLU:HG3	2.33	0.43
10:J:21:THR:O	10:J:25:THR:HG23	2.18	0.43
10:J:80:LYS:O	10:J:84:VAL:HG23	2.19	0.43
10:J:155:LEU:HD12	11:K:216:LEU:HD22	2.00	0.43
12:L:38:LYS:HG3	12:L:39:TYR:H	1.83	0.43
12:L:71:LEU:O	12:L:294:GLN:HG2	2.18	0.43
12:L:568:PRO:HG2	12:L:827:LYS:HE3	2.01	0.43
12:L:723:PRO:HD2	12:L:829:PHE:HE1	1.82	0.43
13:P:128:ILE:HD13	13:P:229:ILE:CD1	2.45	0.43
13:P:258:GLN:HG3	14:R:161:GLU:HG2	2.01	0.43
13:P:278:TYR:HE2	13:P:337:PRO:HD2	1.83	0.43
14:Q:73:LEU:O	14:Q:73:LEU:HD23	2.18	0.43
15:S:85:MET:O	15:S:88:GLU:HB2	2.18	0.43
1:A:91:ASN:OD1	1:A:95:GLN:NE2	2.48	0.43
2:B:38:GLN:O	2:B:42:LEU:N	2.47	0.43
2:B:55:LYS:C	5:E:36:LYS:HG2	2.43	0.43
2:B:60:VAL:HG13	9:i:179:ASN:HA	2.00	0.43
2:B:186:LYS:O	2:B:190:LYS:HD3	2.18	0.43
2:B:246:ASN:OD1	2:B:247:LYS:HG3	2.18	0.43
4:D:206:THR:HG23	5:E:197:LEU:CD1	2.48	0.43
6:F:34:VAL:HG23	6:F:55:ILE:HG21	1.99	0.43
6:F:168:LEU:HB2	6:F:209:LEU:HD23	1.98	0.43
7:G:83:THR:C	7:G:84:LYS:HD3	2.43	0.43
8:H:61:ARG:HD2	8:H:61:ARG:O	2.18	0.43
8:H:377:ILE:O	8:H:378:ASP:C	2.61	0.43
11:K:31:LYS:HD3	11:K:35:GLU:OE1	2.18	0.43
11:K:78:ASP:HB3	11:K:177:LYS:HZ3	1.84	0.43
11:K:394:LYS:HG2	11:K:397:TRP:HE3	1.84	0.43
12:L:210:GLU:O	12:L:213:LYS:HG2	2.18	0.43
12:L:443:MET:O	12:L:446:LYS:NZ	2.37	0.43
12:L:465:LEU:O	12:L:468:VAL:HG22	2.19	0.43
12:L:614:GLY:HA3	12:L:783:GLY:HA3	1.99	0.43
14:Q:106:ASP:O	14:Q:110:ILE:HG13	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:R:67:LEU:HD11	14:R:86:LEU:HD23	2.00	0.43
14:R:81:PHE:CZ	14:R:115:LYS:HB2	2.53	0.43
14:R:195:VAL:HG12	14:R:199:LEU:HD12	2.00	0.43
15:S:107:ILE:HD11	15:s:103:LYS:CB	2.49	0.43
9:i:17:PHE:CE2	9:i:178:TYR:HA	2.53	0.43
15:s:64:PHE:CE2	15:s:68:LYS:HG3	2.53	0.43
1:A:145:ARG:HG2	2:B:141:ARG:NH1	2.31	0.43
1:A:156:MET:HB2	5:E:127:TYR:OH	2.18	0.43
3:C:371:GLU:CB	3:C:394:LEU:HD22	2.48	0.43
4:D:13:VAL:HG12	4:D:14:VAL:N	2.33	0.43
6:F:198:GLU:OE1	6:F:201:LYS:HD3	2.17	0.43
6:F:444:GLN:O	6:F:447:LYS:HG2	2.19	0.43
7:G:25:TYR:CD2	7:G:44:LEU:HD21	2.54	0.43
7:G:62:GLU:CD	15:s:35:ARG:HG3	2.43	0.43
7:G:143:LYS:HD2	7:G:145:LYS:HE3	2.00	0.43
7:G:204:LYS:HG3	7:G:232:SER:C	2.43	0.43
7:G:340:LYS:HG3	7:G:340:LYS:O	2.18	0.43
8:H:118:LYS:HD2	8:H:181:VAL:CA	2.43	0.43
8:H:320:VAL:CG2	8:H:339:VAL:HG22	2.47	0.43
8:H:414:ASP:CB	8:H:417:LYS:HD2	2.48	0.43
9:I:140:PHE:HB2	12:L:192:GLU:CD	2.44	0.43
10:J:47:LYS:NZ	10:J:51:LEU:HD11	2.33	0.43
11:K:163:LEU:HD11	11:K:173:ILE:CD1	2.47	0.43
12:L:243:TYR:HE1	9:i:95:PRO:HB2	1.82	0.43
12:L:282:GLN:O	12:L:286:LYS:HG2	2.19	0.43
13:P:207:ILE:CG1	13:P:240:ILE:HD11	2.31	0.43
13:P:252:CYS:HB3	13:P:271:LEU:HD11	1.99	0.43
15:S:97:ASN:CG	15:s:96:LEU:HD11	2.43	0.43
15:S:146:PHE:HD1	15:s:146:PHE:HD1	1.60	0.43
2:B:74:LYS:O	2:B:77:ARG:CG	2.59	0.43
3:C:419:ILE:HG23	8:H:231:ASN:CB	2.44	0.43
5:E:186:TYR:O	5:E:190:LEU:CD1	2.67	0.43
6:F:34:VAL:CG2	6:F:55:ILE:HD13	2.45	0.43
6:F:198:GLU:HA	6:F:201:LYS:HG2	2.00	0.43
6:F:216:ILE:HG21	6:F:224:ILE:CD1	2.49	0.43
7:G:196:THR:OG1	14:Q:24:LYS:HA	2.18	0.43
7:G:251:ASN:HB3	7:G:254:GLU:CD	2.44	0.43
8:H:590:LYS:CG	8:H:591:MET:N	2.81	0.43
9:I:47:ARG:HA	9:I:51:GLN:O	2.18	0.43
10:J:191:ILE:HD13	11:K:254:GLU:OE1	2.17	0.43
11:K:12:HIS:O	11:K:13:PRO:C	2.62	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:14:ARG:HG3	11:K:15:PRO:CD	2.44	0.43
11:K:418:ARG:HD3	14:R:60:ASP:C	2.44	0.43
12:L:328:ARG:HD2	12:L:457:VAL:HG12	2.00	0.43
13:P:153:TYR:OH	13:P:157:LEU:HD21	2.19	0.43
13:P:164:GLN:NE2	13:P:168:GLU:HG2	2.34	0.43
13:P:256:ILE:CG2	13:P:266:ILE:HG12	2.40	0.43
14:R:52:ASN:O	14:R:53:ASN:ND2	2.51	0.43
15:S:128:LYS:CG	15:s:128:LYS:HE2	2.48	0.43
1:A:2:ASN:HB2	1:A:5:GLN:HB2	1.99	0.43
1:A:11:ILE:O	1:A:15:VAL:HG23	2.19	0.43
1:A:117:GLU:O	1:A:121:ARG:CB	2.66	0.43
1:A:244:ALA:HA	4:D:243:LYS:CE	2.48	0.43
2:B:13:THR:O	2:B:13:THR:HG23	2.18	0.43
2:B:31:LYS:O	2:B:35:GLU:HG2	2.19	0.43
2:B:53:ARG:CG	5:E:35:LEU:O	2.66	0.43
2:B:61:VAL:HG11	5:E:41:GLU:HA	1.99	0.43
3:C:119:LYS:HG2	3:C:139:TYR:CG	2.54	0.43
3:C:394:LEU:HD12	3:C:394:LEU:HA	1.80	0.43
3:C:454:TYR:CD1	3:C:501:ILE:HG22	2.54	0.43
4:D:239:TYR:CZ	5:E:230:LEU:HD12	2.53	0.43
6:F:335:LYS:HA	6:F:335:LYS:HD3	1.72	0.43
7:G:197:ASN:H	14:Q:25:GLU:C	2.27	0.43
8:H:77:VAL:HG21	8:H:109:PHE:CE1	2.54	0.43
8:H:493:TYR:HB2	8:H:511:ARG:O	2.18	0.43
8:H:626:ASN:O	8:H:629:GLU:HB2	2.19	0.43
10:J:139:GLN:HA	11:K:190:CYS:SG	2.59	0.43
10:J:194:LEU:HD13	11:K:258:LEU:HB2	2.01	0.43
10:J:315:GLU:CG	10:J:319:ARG:HE	2.31	0.43
11:K:213:LYS:O	11:K:217:ARG:HB2	2.18	0.43
11:K:406:GLU:HB3	14:R:49:GLN:HG3	2.01	0.43
12:L:301:PHE:HE1	12:L:305:ILE:HD11	1.82	0.43
12:L:336:LEU:HB3	12:L:341:PHE:CD1	2.54	0.43
12:L:484:ARG:HA	12:L:485:PRO:HD3	1.92	0.43
13:P:145:THR:OG1	13:P:359:THR:HG22	2.19	0.43
13:P:190:GLU:HB2	13:P:193:ALA:CB	2.46	0.43
13:P:296:GLY:HA3	13:P:348:LEU:HD22	2.00	0.43
14:R:111:ILE:HG23	14:R:114:LYS:NZ	2.33	0.43
9:i:16:GLU:HB3	9:i:181:PHE:HD2	1.82	0.43
9:i:22:ILE:HG23	9:i:80:PHE:CD2	2.53	0.43
9:i:46:MET:SD	9:i:62:ILE:HD13	2.58	0.43
2:B:72:TRP:C	2:B:75:ILE:HG22	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:88:LYS:HG3	3:C:110:TRP:HE3	1.80	0.43
3:C:365:GLU:HG3	3:C:366:HIS:N	2.34	0.43
3:C:439:ILE:HD13	3:C:520:GLN:HG3	1.99	0.43
3:C:550:ILE:O	3:C:553:ILE:HG12	2.18	0.43
5:E:12:LYS:NZ	9:I:7:SER:HA	2.33	0.43
6:F:321:LEU:HD11	6:F:323:VAL:HG22	2.01	0.43
7:G:87:ARG:HA	7:G:115:ASP:CB	2.23	0.43
7:G:181:ALA:O	7:G:184:SER:HB2	2.18	0.43
7:G:194:VAL:O	7:G:194:VAL:HG22	2.19	0.43
7:G:206:ASN:N	7:G:234:ASN:OD1	2.51	0.43
8:H:1:MET:HA	8:H:2:ASP:HA	1.56	0.43
8:H:189:TYR:HB3	8:H:285:CYS:SG	2.59	0.43
8:H:196:ILE:HG22	8:H:284:HIS:NE2	2.33	0.43
8:H:463:VAL:HG11	8:H:466:TYR:CE1	2.53	0.43
8:H:682:GLN:HE21	8:H:686:ILE:HG13	1.84	0.43
8:H:813:PHE:CZ	8:H:817:ILE:HG21	2.54	0.43
9:I:25:ALA:HB1	9:I:45:ILE:HG23	1.99	0.43
10:J:113:LYS:HD3	11:K:56:GLU:CD	2.44	0.43
10:J:273:TRP:CZ2	11:K:338:ILE:HG23	2.53	0.43
12:L:149:ARG:NE	12:L:631:ILE:HG13	2.34	0.43
12:L:157:LEU:O	12:L:161:THR:OG1	2.24	0.43
12:L:345:PRO:HD2	12:L:465:LEU:HD11	2.00	0.43
13:P:218:LYS:O	13:P:222:LEU:HB2	2.18	0.43
13:P:256:ILE:HD12	13:P:364:TYR:CB	2.30	0.43
13:P:282:ILE:CD1	14:R:174:GLN:HG3	2.47	0.43
13:P:311:ALA:HB3	14:R:172:GLU:OE2	2.18	0.43
13:P:330:ARG:NE	13:P:331:VAL:H	2.12	0.43
14:Q:112:VAL:HG13	14:Q:115:LYS:HB3	2.01	0.43
14:R:182:ILE:HD11	14:R:194:ASP:HB3	2.00	0.43
3:C:108:LEU:CD2	3:C:130:LEU:HD13	2.49	0.43
3:C:113:LEU:O	3:C:118:ILE:HD11	2.19	0.43
3:C:118:ILE:HD12	3:C:138:ASN:CG	2.44	0.43
3:C:140:ILE:N	3:C:160:ASN:OD1	2.52	0.43
3:C:153:ASN:HD21	5:E:199:LEU:HB2	1.83	0.43
3:C:412:LEU:HD21	3:C:541:ARG:CZ	2.48	0.43
3:C:443:GLN:OE1	3:C:513:THR:HG23	2.19	0.43
6:F:94:ASN:ND2	6:F:96:GLU:OE2	2.52	0.43
6:F:101:SER:CB	6:F:104:VAL:HG22	2.48	0.43
7:G:40:PHE:CE2	7:G:63:LEU:HD13	2.50	0.43
7:G:151:PHE:CD1	7:G:155:GLY:HA3	2.54	0.43
8:H:46:LYS:HG3	8:H:49:ARG:HH21	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:159:VAL:HG11	8:H:169:ASP:C	2.44	0.43
8:H:590:LYS:HB2	8:H:613:ASP:CG	2.43	0.43
8:H:610:MET:HE1	8:H:612:ILE:CD1	2.49	0.43
8:H:611:VAL:HB	8:H:620:ILE:O	2.19	0.43
9:I:84:MET:O	9:I:88:LEU:HG	2.19	0.43
11:K:116:ILE:HG22	11:K:152:LEU:HD13	1.99	0.43
11:K:370:LYS:O	11:K:374:LYS:HG3	2.19	0.43
12:L:70:GLN:OE1	12:L:70:GLN:HA	2.18	0.43
12:L:79:LEU:HD22	12:L:418:LYS:HZ2	1.84	0.43
12:L:580:ILE:HG21	12:L:741:PHE:CE1	2.54	0.43
13:P:250:VAL:HG23	13:P:329:THR:HG21	1.96	0.43
13:P:313:PHE:CD1	14:R:160:LYS:HE3	2.54	0.43
14:Q:156:VAL:HG23	14:Q:189:ARG:HH11	1.79	0.43
15:S:80:ARG:HA	15:S:83:LYS:HE2	1.99	0.43
9:i:91:ARG:HD3	9:i:94:GLU:OE2	2.19	0.43
15:s:95:ASP:OD1	15:s:98:LYS:HE2	2.19	0.43
15:s:160:ARG:O	15:s:164:VAL:HG23	2.19	0.43
1:A:13:ILE:CB	1:A:17:ARG:HH21	2.32	0.43
1:A:37:LYS:C	1:A:40:ARG:HG3	2.43	0.43
1:A:42:GLN:O	1:A:46:ARG:HG3	2.19	0.43
1:A:105:ILE:HD13	2:B:99:LEU:HD13	2.01	0.43
1:A:148:PHE:CE1	2:B:145:LEU:HG	2.54	0.43
1:A:185:PHE:HB3	1:A:186:LYS:H	1.70	0.43
2:B:164:ARG:O	2:B:168:VAL:HG23	2.19	0.43
3:C:115:PHE:HD1	3:C:137:ASN:HD22	1.67	0.43
3:C:313:TYR:CD1	3:C:453:PHE:HB2	2.54	0.43
3:C:372:PHE:CG	3:C:563:LYS:HE3	2.53	0.43
3:C:391:LEU:CD1	3:C:564:LEU:HD13	2.42	0.43
6:F:162:LEU:CD1	6:F:165:LEU:HD11	2.49	0.43
7:G:57:ILE:CG2	7:G:86:ILE:HG23	2.49	0.43
7:G:243:ASP:OD1	15:S:62:LYS:HG2	2.18	0.43
8:H:115:ARG:NE	8:H:408:PRO:O	2.52	0.43
8:H:278:TYR:HB3	8:H:282:ARG:HG3	2.01	0.43
8:H:549:TYR:HB3	8:H:552:ARG:HD3	2.01	0.43
8:H:783:GLN:HG3	8:H:818:LEU:HD12	2.00	0.43
8:H:830:LEU:O	8:H:834:GLU:HG2	2.18	0.43
9:I:47:ARG:HE	12:L:194:GLY:HA2	1.82	0.43
9:I:58:VAL:HG23	9:I:62:ILE:HG21	2.01	0.43
10:J:36:LEU:HB3	11:K:55:VAL:CG2	2.48	0.43
10:J:180:TYR:HD2	11:K:240:LEU:HD11	1.84	0.43
10:J:242:LYS:HE3	10:J:243:GLN:CG	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:295:LYS:O	10:J:297:LYS:HD2	2.19	0.43
11:K:181:ASN:OD1	11:K:182:PRO:HD2	2.18	0.43
12:L:432:PHE:HB3	12:L:433:GLU:OE2	2.19	0.43
12:L:495:PHE:CE2	12:L:707:PHE:HD1	2.37	0.43
12:L:847:LYS:HD2	12:L:847:LYS:HA	1.70	0.43
13:P:158:VAL:HG23	13:P:234:PHE:HB3	2.00	0.43
13:P:291:ASP:CB	14:R:202:ARG:HH12	2.31	0.43
13:P:295:VAL:HG13	14:R:180:LYS:NZ	2.33	0.43
15:S:107:ILE:CG1	15:S:110:LYS:HZ3	2.30	0.43
1:A:171:SER:HA	1:A:174:LEU:CG	2.48	0.42
2:B:48:GLU:CD	4:D:40:MET:HE2	2.44	0.42
2:B:249:LYS:HD3	2:B:249:LYS:HA	1.79	0.42
3:C:166:GLU:HA	3:C:169:THR:CG2	2.48	0.42
3:C:450:ASN:HD21	3:C:512:HIS:HD2	1.67	0.42
6:F:26:LEU:HD12	6:F:26:LEU:C	2.44	0.42
7:G:142:LEU:C	7:G:169:LEU:HD12	2.44	0.42
7:G:197:ASN:ND2	14:Q:27:ILE:HD11	2.33	0.42
7:G:208:LEU:HB3	7:G:212:GLY:HA3	2.01	0.42
8:H:444:GLN:HB2	8:H:447:GLY:N	2.34	0.42
8:H:562:ARG:CZ	8:H:590:LYS:NZ	2.81	0.42
8:H:612:ILE:HG23	8:H:639:ARG:NH2	2.34	0.42
8:H:794:VAL:HG21	8:H:808:ILE:CD1	2.49	0.42
10:J:173:ARG:HB2	11:K:237:LEU:HD11	2.01	0.42
11:K:98:LEU:HB3	11:K:176:MET:SD	2.58	0.42
11:K:163:LEU:CD2	11:K:173:ILE:HD12	2.49	0.42
12:L:105:TYR:HE1	12:L:543:ILE:HG12	1.83	0.42
12:L:157:LEU:HD23	12:L:161:THR:HG21	2.00	0.42
12:L:260:GLU:HG3	12:L:264:LEU:CD1	2.35	0.42
13:P:153:TYR:HD2	13:P:243:VAL:CG1	2.25	0.42
13:P:182:LEU:CD1	13:P:243:VAL:HG13	2.48	0.42
13:P:294:GLY:N	14:R:177:GLU:CG	2.68	0.42
13:P:317:LEU:O	13:P:318:TYR:CD1	2.72	0.42
14:R:179:LEU:O	14:R:182:ILE:HG22	2.20	0.42
15:S:124:LYS:CD	15:s:125:LEU:HD21	2.49	0.42
1:A:213:LEU:CD1	2:B:204:LYS:HD3	2.46	0.42
2:B:56:ASP:H	5:E:36:LYS:CA	2.31	0.42
2:B:156:LEU:O	2:B:160:PHE:HD2	2.02	0.42
2:B:227:THR:O	2:B:227:THR:HG22	2.19	0.42
3:C:77:ILE:HG23	3:C:77:ILE:O	2.19	0.42
3:C:441:LEU:HD21	3:C:445:LYS:CE	2.49	0.42
6:F:59:ILE:HG22	6:F:60:THR:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:225:MET:SD	6:F:251:ARG:HB3	2.59	0.42
7:G:40:PHE:O	7:G:44:LEU:HD23	2.19	0.42
7:G:87:ARG:HD3	7:G:113:TYR:CE1	2.54	0.42
8:H:46:LYS:CE	8:H:154:PRO:HD3	2.49	0.42
8:H:117:THR:CB	8:H:411:ILE:HB	2.49	0.42
8:H:167:CYS:SG	8:H:284:HIS:HA	2.58	0.42
8:H:257:GLU:OE1	8:H:257:GLU:HA	2.19	0.42
8:H:433:LYS:HG2	8:H:458:TYR:N	2.34	0.42
8:H:433:LYS:HD3	8:H:458:TYR:CZ	2.54	0.42
8:H:609:LYS:HE3	8:H:622:TYR:HB2	2.00	0.42
8:H:787:LEU:HD13	8:H:811:ILE:CG2	2.49	0.42
9:I:29:PHE:HA	9:I:31:LYS:HZ1	1.83	0.42
11:K:33:LEU:HD23	11:K:186:ASP:HA	2.01	0.42
12:L:156:LEU:C	12:L:514:VAL:HG11	2.44	0.42
12:L:827:LYS:HE3	12:L:827:LYS:CA	2.30	0.42
12:L:827:LYS:HZ2	12:L:830:LYS:HD2	1.83	0.42
13:P:157:LEU:HD11	13:P:184:HIS:HB2	1.99	0.42
14:Q:70:LEU:O	14:Q:70:LEU:HD12	2.18	0.42
9:i:118:ILE:CG2	9:i:121:MET:HE2	2.47	0.42
9:i:169:LYS:HD3	9:i:169:LYS:C	2.45	0.42
1:A:105:ILE:O	1:A:109:GLU:OE1	2.37	0.42
1:A:141:ILE:C	1:A:144:MET:HG2	2.45	0.42
1:A:237:LYS:HD2	5:E:223:HIS:HD2	1.83	0.42
2:B:56:ASP:H	5:E:37:GLU:N	2.17	0.42
2:B:236:MET:HA	2:B:239:LYS:CE	2.48	0.42
3:C:146:LEU:HB3	3:C:188:PHE:CZ	2.54	0.42
5:E:40:ASN:O	5:E:44:THR:HG23	2.19	0.42
5:E:97:GLN:HE22	15:s:84:GLN:HB3	1.83	0.42
6:F:78:TRP:CE2	6:F:103:LYS:HD3	2.54	0.42
6:F:259:ASN:HD21	6:F:262:LEU:HB2	1.83	0.42
8:H:174:LEU:HD11	8:H:178:LEU:HD21	2.00	0.42
8:H:191:LYS:CD	8:H:281:GLN:HA	2.48	0.42
8:H:203:LEU:HA	8:H:432:ASN:CG	2.44	0.42
8:H:332:ASN:HD21	8:H:342:LEU:CD1	2.30	0.42
8:H:509:GLN:O	8:H:525:TYR:CE2	2.73	0.42
8:H:552:ARG:HB3	8:H:554:ASP:OD1	2.19	0.42
8:H:566:LYS:O	8:H:567:ARG:HG3	2.19	0.42
9:I:58:VAL:HB	9:I:62:ILE:HD12	2.01	0.42
10:J:173:ARG:HA	10:J:176:GLU:HG2	2.01	0.42
10:J:240:ASN:HA	10:J:243:GLN:OE1	2.20	0.42
11:K:32:SER:O	11:K:36:THR:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:271:LYS:CE	11:K:272:LYS:HG2	2.50	0.42
11:K:413:HIS:O	11:K:413:HIS:CG	2.72	0.42
12:L:140:GLU:O	12:L:143:LYS:HB2	2.19	0.42
12:L:435:LYS:NZ	12:L:436:HIS:HB3	2.34	0.42
13:P:132:ARG:C	13:P:137:LEU:HB2	2.44	0.42
13:P:153:TYR:CZ	13:P:157:LEU:HD21	2.53	0.42
13:P:253:ILE:HG22	13:P:364:TYR:CD2	2.55	0.42
13:P:295:VAL:HG23	14:R:176:ASN:CB	2.36	0.42
13:P:361:PHE:CD2	14:R:171:SER:HA	2.54	0.42
9:i:145:THR:HB	9:i:148:ASP:HB3	2.00	0.42
2:B:33:GLN:HG3	2:B:37:ASP:OD2	2.20	0.42
2:B:57:GLU:CB	5:E:34:LYS:O	2.68	0.42
3:C:239:ASP:HB3	3:C:242:ILE:CG1	2.49	0.42
7:G:86:ILE:O	7:G:114:LEU:HA	2.20	0.42
7:G:228:LYS:HD3	7:G:282:TYR:CD2	2.55	0.42
8:H:168:PHE:HZ	8:H:189:TYR:CD1	2.37	0.42
8:H:519:HIS:HB3	8:H:541:ILE:HB	2.02	0.42
8:H:589:THR:HB	8:H:615:ILE:CD1	2.49	0.42
9:I:52:PHE:CD2	9:I:95:PRO:HB3	2.54	0.42
9:I:103:ALA:C	9:I:106:LYS:HG3	2.45	0.42
11:K:87:ASP:O	11:K:91:HIS:HB2	2.20	0.42
11:K:247:PHE:CE1	11:K:251:LYS:HE3	2.54	0.42
11:K:415:LEU:HD11	14:Q:143:THR:HA	2.00	0.42
11:K:429:LYS:O	11:K:430:GLY:C	2.62	0.42
12:L:484:ARG:O	12:L:486:ARG:N	2.51	0.42
13:P:318:TYR:HD1	14:R:125:LEU:HD12	1.80	0.42
14:Q:103:ILE:HB	14:Q:108:VAL:HG23	2.02	0.42
15:S:172:PRO:HA	15:S:175:MET:CE	2.47	0.42
15:s:115:GLN:O	15:s:119:LYS:CD	2.67	0.42
1:A:209:ASN:ND2	2:B:204:LYS:HZ1	2.18	0.42
1:A:237:LYS:CD	5:E:223:HIS:CD2	3.03	0.42
1:A:239:PHE:CD2	2:B:233:LEU:HB2	2.52	0.42
3:C:236:ILE:O	3:C:242:ILE:HD12	2.18	0.42
4:D:127:LYS:O	4:D:131:VAL:HG13	2.19	0.42
5:E:32:LEU:HB3	5:E:36:LYS:CE	2.50	0.42
5:E:219:LEU:HD11	5:E:223:HIS:HE1	1.84	0.42
6:F:27:GLN:HE21	6:F:31:VAL:HG21	1.83	0.42
6:F:78:TRP:CD1	6:F:103:LYS:HB2	2.53	0.42
6:F:101:SER:HB3	6:F:104:VAL:CG2	2.49	0.42
6:F:148:ASN:OD1	6:F:174:THR:C	2.63	0.42
6:F:217:ASP:HB2	6:F:243:LYS:CE	2.31	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:130:ILE:CB	12:L:193:ARG:HH12	2.32	0.42
10:J:75:ILE:O	10:J:79:THR:HG23	2.18	0.42
10:J:78:GLN:O	10:J:82:VAL:HG23	2.19	0.42
10:J:165:GLU:OE2	10:J:169:LEU:HD21	2.20	0.42
10:J:351:TYR:CE2	14:Q:79:ILE:HD11	2.54	0.42
10:J:364:ARG:HG2	10:J:366:LYS:N	2.33	0.42
11:K:194:GLN:O	11:K:198:MET:HE3	2.19	0.42
11:K:427:LYS:CG	14:Q:161:GLU:OE2	2.66	0.42
12:L:24:GLU:HG2	12:L:49:PHE:HZ	1.83	0.42
12:L:72:VAL:O	12:L:74:PRO:HD3	2.19	0.42
12:L:214:LYS:O	12:L:218:GLN:HG3	2.20	0.42
13:P:128:ILE:HD13	13:P:221:ILE:HG21	2.01	0.42
13:P:324:ALA:HB1	13:P:359:THR:C	2.44	0.42
13:P:327:TYR:O	13:P:356:ARG:N	2.39	0.42
13:P:327:TYR:C	13:P:355:LEU:HD12	2.44	0.42
14:Q:31:LYS:O	14:Q:35:TYR:N	2.40	0.42
1:A:8:LYS:HZ2	1:A:169:GLU:HB3	1.81	0.42
1:A:139:ASP:O	1:A:143:LYS:HG3	2.19	0.42
3:C:160:ASN:HB2	3:C:199:ASN:OD1	2.20	0.42
3:C:172:PHE:CE1	3:C:191:LEU:HB3	2.55	0.42
3:C:271:LEU:CD1	3:C:275:LYS:HE2	2.49	0.42
4:D:68:ILE:CD1	5:E:53:ARG:NH1	2.83	0.42
7:G:231:LEU:O	7:G:234:ASN:ND2	2.52	0.42
7:G:235:GLN:HA	15:S:55:ALA:HB1	2.02	0.42
8:H:211:LYS:HD2	8:H:469:PHE:CZ	2.54	0.42
8:H:430:TYR:CD2	8:H:460:ARG:NE	2.87	0.42
8:H:534:LEU:HD22	8:H:547:MET:SD	2.59	0.42
10:J:142:THR:HG21	11:K:190:CYS:HA	2.00	0.42
10:J:198:LEU:HD22	11:K:261:GLU:HB3	2.02	0.42
10:J:252:HIS:CE1	11:K:316:HIS:HA	2.55	0.42
11:K:305:LEU:O	11:K:306:GLU:C	2.61	0.42
11:K:355:ILE:HG23	11:K:358:GLU:OE2	2.19	0.42
12:L:49:PHE:CE2	12:L:53:LEU:HD11	2.55	0.42
12:L:346:GLN:HE21	12:L:476:LYS:HG2	1.85	0.42
12:L:520:LYS:HE3	12:L:522:LEU:CD2	2.36	0.42
12:L:526:SER:HG	12:L:528:MET:HG3	1.83	0.42
12:L:591:PRO:HB3	12:L:598:LYS:HD2	2.00	0.42
13:P:158:VAL:HG21	13:P:234:PHE:C	2.45	0.42
14:Q:60:ASP:OD2	14:Q:62:ASP:HB3	2.19	0.42
14:R:129:PHE:HZ	14:R:195:VAL:HG12	1.85	0.42
15:S:52:GLU:HG2	15:S:56:ARG:HD2	1.99	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:S:142:MET:SD	15:S:143:SER:N	2.93	0.42
9:i:101:LEU:HD23	9:i:160:ILE:HG23	2.02	0.42
2:B:153:VAL:O	2:B:157:GLU:HG2	2.20	0.42
2:B:255:HIS:O	2:B:259:LYS:HG2	2.19	0.42
3:C:74:ILE:HD12	3:C:94:ASN:ND2	2.34	0.42
3:C:269:GLN:NE2	3:C:270:THR:HG23	2.35	0.42
3:C:443:GLN:CG	3:C:516:ILE:HD13	2.50	0.42
6:F:115:LEU:HG	6:F:151:GLN:HE22	1.83	0.42
7:G:297:ALA:O	7:G:301:CYS:SG	2.78	0.42
7:G:308:ILE:HG21	7:G:311:MET:CG	2.50	0.42
8:H:54:LYS:HE3	8:H:104:CYS:SG	2.59	0.42
8:H:183:TYR:HA	8:H:293:LYS:O	2.19	0.42
8:H:432:ASN:O	8:H:434:VAL:HG23	2.20	0.42
9:I:58:VAL:CG2	9:I:62:ILE:HB	2.49	0.42
10:J:135:LEU:O	10:J:139:GLN:HG3	2.19	0.42
10:J:270:SER:HA	11:K:334:LEU:HD13	2.00	0.42
10:J:360:GLY:C	10:J:361:LYS:HD2	2.44	0.42
11:K:268:GLU:HA	11:K:271:LYS:HG3	2.02	0.42
11:K:413:HIS:HD1	14:R:56:LEU:HB2	1.84	0.42
12:L:14:ILE:HG12	12:L:416:ILE:HD12	2.02	0.42
12:L:468:VAL:O	12:L:471:ARG:HB2	2.19	0.42
12:L:494:LYS:HZ1	12:L:498:ASP:HB2	1.81	0.42
12:L:606:TYR:O	12:L:736:ASP:HB2	2.20	0.42
13:P:264:ILE:HD12	13:P:313:PHE:HE1	1.85	0.42
14:Q:150:GLN:HG3	14:Q:150:GLN:O	2.20	0.42
14:R:182:ILE:HG21	14:R:190:ILE:HD11	2.02	0.42
15:S:39:GLU:CG	15:s:40:GLN:HA	2.49	0.42
9:i:22:ILE:HD13	9:i:81:GLU:O	2.19	0.42
1:A:45:LYS:N	1:A:45:LYS:HD2	2.34	0.42
1:A:141:ILE:CA	1:A:144:MET:HG2	2.49	0.42
1:A:155:ASN:O	1:A:158:GLU:HG2	2.19	0.42
1:A:173:LEU:HD11	1:A:177:PHE:CZ	2.55	0.42
1:A:185:PHE:CZ	4:D:173:LYS:HD2	2.52	0.42
2:B:67:LYS:HE3	9:i:20:LEU:HD11	2.01	0.42
2:B:159:GLU:HB3	4:D:152:ARG:HH21	1.84	0.42
2:B:179:GLU:HG3	2:B:179:GLU:O	2.20	0.42
3:C:168:ILE:HG21	3:C:194:LEU:HD21	2.01	0.42
3:C:212:HIS:ND1	3:C:246:TYR:CE1	2.77	0.42
3:C:402:LYS:HG2	3:C:553:ILE:HG22	2.02	0.42
4:D:107:TYR:CE1	6:F:179:MET:HE3	2.55	0.42
5:E:196:ASP:HA	5:E:199:LEU:HD21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:91:LYS:O	6:F:109:ARG:NH2	2.50	0.42
6:F:206:LEU:CD2	6:F:209:LEU:HG	2.49	0.42
6:F:240:SER:HA	6:F:268:GLY:O	2.19	0.42
7:G:229:VAL:CG2	7:G:231:LEU:HD21	2.49	0.42
8:H:66:ASN:HB3	8:H:70:GLU:CB	2.50	0.42
8:H:136:GLU:O	8:H:422:THR:HG22	2.19	0.42
8:H:612:ILE:HA	8:H:639:ARG:NH2	2.34	0.42
8:H:616:LYS:NZ	8:H:636:ILE:HG23	2.35	0.42
8:H:848:ALA:HB1	8:H:852:LYS:HZ3	1.85	0.42
9:I:3:ASP:N	9:I:14:GLN:OE1	2.46	0.42
12:L:134:ILE:HD13	12:L:589:ALA:CB	2.36	0.42
12:L:149:ARG:HD2	12:L:631:ILE:CD1	2.50	0.42
12:L:156:LEU:HB3	12:L:514:VAL:CG1	2.43	0.42
12:L:156:LEU:CB	12:L:514:VAL:HG21	2.49	0.42
12:L:537:LEU:CD1	12:L:540:ILE:HD11	2.44	0.42
12:L:613:ARG:HH12	12:L:672:GLU:CD	2.27	0.42
12:L:676:TYR:CD2	12:L:688:VAL:HG11	2.55	0.42
12:L:777:THR:HG22	12:L:815:LEU:CD1	2.50	0.42
12:L:783:GLY:O	12:L:787:MET:HG3	2.19	0.42
13:P:321:ASP:N	14:R:169:ARG:N	2.68	0.42
15:S:15:ASP:OD1	15:S:15:ASP:C	2.61	0.42
15:S:53:LEU:HD13	15:s:53:LEU:CB	2.50	0.42
15:S:54:ARG:HA	15:S:54:ARG:HD2	1.79	0.42
15:S:131:GLU:O	15:S:135:LEU:HG	2.20	0.42
15:s:75:THR:HA	15:s:78:MET:CG	2.49	0.42
1:A:141:ILE:CG2	1:A:145:ARG:HE	2.32	0.42
1:A:260:LEU:HD12	1:A:263:LYS:HZ3	1.85	0.42
1:A:270:MET:HA	1:A:273:GLU:HG3	2.01	0.42
2:B:49:GLY:C	2:B:50:LEU:HD23	2.45	0.42
3:C:114:SER:HA	3:C:138:ASN:HD21	1.84	0.42
3:C:114:SER:OG	3:C:134:SER:HB3	2.20	0.42
3:C:175:LYS:HZ3	3:C:181:GLY:CA	2.33	0.42
3:C:435:ILE:CD1	3:C:523:LEU:HD21	2.49	0.42
4:D:267:LEU:HD21	5:E:252:ILE:HA	2.02	0.42
6:F:197:GLY:O	6:F:227:GLY:HA3	2.20	0.42
6:F:357:PHE:HB2	6:F:385:PHE:CE1	2.55	0.42
6:F:434:LEU:HA	6:F:437:ILE:HG22	2.01	0.42
7:G:74:SER:HA	7:G:77:GLU:HG3	2.02	0.42
7:G:159:LEU:CD1	7:G:163:LEU:HD12	2.43	0.42
7:G:269:ASN:O	7:G:273:VAL:HG23	2.20	0.42
8:H:172:ILE:HD11	8:H:324:PHE:HZ	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:175:CYS:HA	8:H:178:LEU:HD12	2.02	0.42
8:H:175:CYS:SG	8:H:185:ALA:HB1	2.60	0.42
8:H:320:VAL:HG11	8:H:353:TRP:CH2	2.50	0.42
8:H:490:ILE:HG12	8:H:514:ILE:CG1	2.48	0.42
8:H:598:ASN:CB	8:H:601:TYR:HD2	2.33	0.42
8:H:790:LYS:HD2	8:H:811:ILE:HD12	2.02	0.42
10:J:191:ILE:HG23	11:K:258:LEU:CD1	2.46	0.42
10:J:198:LEU:HB2	11:K:262:ILE:CG1	2.49	0.42
11:K:11:LEU:CB	11:K:13:PRO:HD2	2.44	0.42
11:K:54:ILE:HG22	11:K:55:VAL:H	1.83	0.42
12:L:303:ASP:O	12:L:307:ASN:ND2	2.53	0.42
13:P:113:ASP:HB3	13:P:116:THR:OG1	2.20	0.42
13:P:186:THR:HG23	13:P:241:VAL:HG22	2.01	0.42
13:P:264:ILE:HG13	14:R:160:LYS:O	2.19	0.42
13:P:274:ASN:HD22	14:R:9:LYS:HG3	1.84	0.42
13:P:277:ILE:HG23	13:P:300:ILE:HG21	2.02	0.42
13:P:350:TYR:O	13:P:353:LEU:HB2	2.20	0.42
14:R:6:LYS:HG2	14:R:7:LEU:N	2.35	0.42
15:S:67:GLU:OE2	15:s:68:LYS:NZ	2.42	0.42
15:S:125:LEU:CD2	15:s:128:LYS:HZ2	2.32	0.42
15:S:139:ILE:HA	15:S:142:MET:HG3	2.02	0.42
9:i:22:ILE:HD11	9:i:84:MET:HG2	2.02	0.42
15:s:75:THR:HA	15:s:78:MET:HG2	2.02	0.42
15:s:84:GLN:O	15:s:87:ASP:HB2	2.20	0.42
1:A:116:GLU:HB3	1:A:120:LYS:HZ1	1.84	0.42
1:A:212:ASP:OD1	1:A:213:LEU:HG	2.20	0.42
2:B:53:ARG:NE	5:E:31:THR:O	2.51	0.42
2:B:61:VAL:CG1	5:E:41:GLU:HA	2.50	0.42
3:C:35:ILE:CD1	3:C:74:ILE:HD13	2.31	0.42
3:C:273:LYS:HG3	3:C:329:ILE:HG21	2.02	0.42
3:C:339:MET:SD	3:C:530:TYR:CD2	3.13	0.42
3:C:378:GLU:CD	3:C:383:ASP:HB2	2.44	0.42
4:D:65:ARG:HE	5:E:52:ASP:HB3	1.84	0.42
6:F:125:ASN:O	6:F:129:ILE:HG13	2.19	0.42
6:F:155:ILE:HG21	6:F:196:LEU:CD1	2.48	0.42
6:F:218:ASP:OD1	6:F:248:GLY:N	2.45	0.42
7:G:185:LYS:HG2	7:G:186:TYR:N	2.35	0.42
7:G:296:LYS:HE3	7:G:321:LEU:CD2	2.49	0.42
7:G:306:LYS:O	7:G:332:ARG:HG2	2.19	0.42
8:H:49:ARG:NH1	8:H:164:LYS:O	2.53	0.42
8:H:117:THR:CG2	8:H:410:LYS:HB3	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:128:GLN:HE21	8:H:128:GLN:HB2	1.71	0.42
8:H:140:TYR:CB	8:H:199:ARG:HD2	2.49	0.42
8:H:144:ASP:HA	8:H:145:PRO:HA	1.84	0.42
8:H:168:PHE:CE1	8:H:189:TYR:CB	3.03	0.42
8:H:168:PHE:CD1	8:H:285:CYS:CB	3.03	0.42
8:H:357:MET:HG2	8:H:403:MET:SD	2.60	0.42
8:H:379:ASP:CG	8:H:381:LEU:HD22	2.45	0.42
8:H:552:ARG:NH2	8:H:554:ASP:OD2	2.53	0.42
8:H:783:GLN:O	8:H:815:ILE:HD11	2.19	0.42
9:I:82:PRO:O	9:I:86:LYS:CE	2.68	0.42
10:J:228:GLU:HB3	10:J:232:LYS:NZ	2.35	0.42
10:J:288:ILE:HG23	11:K:355:ILE:HD12	2.01	0.42
11:K:76:TYR:CZ	11:K:174:LYS:HG2	2.55	0.42
11:K:250:GLU:HG3	11:K:251:LYS:HE2	2.02	0.42
11:K:289:ARG:HD2	11:K:289:ARG:C	2.44	0.42
12:L:156:LEU:HD21	12:L:511:ALA:CB	2.49	0.42
12:L:347:ASP:OD1	12:L:348:PRO:HD2	2.20	0.42
13:P:260:GLU:OE2	14:R:157:GLU:HB3	2.19	0.42
13:P:363:ILE:HB	13:P:366:ASP:HA	2.02	0.42
14:Q:36:GLN:NE2	14:Q:39:GLN:OE1	2.53	0.42
14:Q:74:LEU:CA	14:Q:79:ILE:HD12	2.49	0.42
14:Q:150:GLN:NE2	14:Q:153:TYR:HB2	2.35	0.42
14:R:70:LEU:HD21	14:R:86:LEU:HD11	1.99	0.42
14:R:129:PHE:HA	14:R:132:VAL:HG12	2.01	0.42
15:S:42:ARG:CZ	15:S:45:ARG:HH12	2.33	0.42
9:i:84:MET:HE2	9:i:84:MET:HB3	1.69	0.42
1:A:8:LYS:HZ3	1:A:170:ARG:HH11	1.66	0.41
1:A:105:ILE:HG22	1:A:109:GLU:OE2	2.20	0.41
2:B:84:LEU:HD23	2:B:87:GLU:OE1	2.20	0.41
3:C:35:ILE:O	3:C:79:HIS:HB2	2.20	0.41
3:C:544:LYS:HE2	3:C:548:GLN:NE2	2.35	0.41
4:D:115:LEU:HD23	4:D:115:LEU:C	2.45	0.41
5:E:58:ASN:HB3	12:L:265:GLY:CA	2.50	0.41
7:G:62:GLU:HG2	15:s:35:ARG:CD	2.50	0.41
8:H:127:TYR:CZ	8:H:128:GLN:HG3	2.55	0.41
8:H:140:TYR:HB3	8:H:199:ARG:HD2	2.01	0.41
9:I:29:PHE:HA	9:I:31:LYS:NZ	2.35	0.41
9:I:140:PHE:HB2	12:L:192:GLU:OE2	2.20	0.41
10:J:169:LEU:HD12	11:K:230:LYS:HG3	2.01	0.41
11:K:216:LEU:HD23	11:K:219:LEU:HD12	2.02	0.41
11:K:337:ASN:O	11:K:340:SER:OG	2.23	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:15:ASN:C	12:L:18:MET:HG2	2.44	0.41
12:L:83:MET:SD	12:L:83:MET:C	3.03	0.41
12:L:92:CYS:CB	12:L:601:LEU:HD11	2.48	0.41
12:L:612:PRO:CG	12:L:781:SER:HB3	2.50	0.41
13:P:121:ARG:HD2	13:P:122:ARG:N	2.34	0.41
13:P:165:ASP:O	13:P:169:ASN:ND2	2.53	0.41
13:P:214:SER:HB3	13:P:217:GLU:OE1	2.20	0.41
13:P:250:VAL:O	13:P:271:LEU:N	2.50	0.41
13:P:319:ASN:OD1	14:R:168:ASN:N	2.53	0.41
13:P:344:LYS:HA	13:P:344:LYS:CE	2.48	0.41
9:i:144:ALA:O	9:i:154:ILE:HG23	2.20	0.41
1:A:37:LYS:HA	1:A:40:ARG:HG2	2.02	0.41
1:A:43:LYS:HE3	1:A:46:ARG:CZ	2.50	0.41
1:A:191:LEU:HD22	2:B:186:LYS:NZ	2.34	0.41
1:A:228:MET:SD	1:A:232:ILE:HD11	2.60	0.41
2:B:59:LYS:N	5:E:37:GLU:C	2.78	0.41
2:B:209:ASN:O	2:B:212:LEU:HG	2.21	0.41
6:F:130:LEU:O	6:F:134:LEU:CD1	2.68	0.41
7:G:38:LYS:HE2	15:s:28:LYS:HZ1	1.85	0.41
7:G:62:GLU:HG2	15:s:35:ARG:NE	2.35	0.41
7:G:62:GLU:HG2	15:s:35:ARG:HD2	2.02	0.41
7:G:62:GLU:H	15:s:35:ARG:CZ	2.33	0.41
7:G:89:TRP:NE1	7:G:117:MET:HE2	2.35	0.41
7:G:110:THR:CA	7:G:140:PRO:HG3	2.50	0.41
7:G:126:CYS:HB3	7:G:159:LEU:CD2	2.50	0.41
7:G:131:ARG:HG2	7:G:134:HIS:HE1	1.85	0.41
7:G:134:HIS:HB2	7:G:137:ILE:CD1	2.51	0.41
7:G:151:PHE:CZ	7:G:179:ILE:HD11	2.56	0.41
7:G:209:LYS:HG3	7:G:210:ASN:N	2.25	0.41
8:H:276:ASP:CG	8:H:282:ARG:HE	2.22	0.41
8:H:324:PHE:HB3	8:H:329:PHE:CD2	2.55	0.41
10:J:117:ILE:C	10:J:120:MET:HG3	2.45	0.41
10:J:118:GLN:O	10:J:122:VAL:HG23	2.20	0.41
10:J:354:TRP:CE3	14:Q:112:VAL:CB	3.00	0.41
12:L:127:PRO:CB	12:L:534:GLN:HG3	2.49	0.41
13:P:113:ASP:CG	13:P:116:THR:H	2.27	0.41
13:P:314:GLU:CB	14:R:179:LEU:HD11	2.49	0.41
13:P:318:TYR:O	14:R:163:LEU:HD22	2.20	0.41
14:Q:105:GLU:HG3	14:Q:109:PHE:HE1	1.84	0.41
14:R:55:ALA:O	14:R:58:ASP:HB3	2.20	0.41
14:R:108:VAL:O	14:R:112:VAL:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:i:118:ILE:HD12	9:i:151:ALA:O	2.19	0.41
15:s:124:LYS:C	15:s:128:LYS:HZ3	2.27	0.41
1:A:75:GLU:HG2	1:A:78:TRP:HZ3	1.86	0.41
1:A:171:SER:C	1:A:174:LEU:HG	2.45	0.41
3:C:154:VAL:HG22	3:C:193:VAL:CB	2.50	0.41
3:C:387:GLU:HG2	3:C:390:ARG:HH21	1.85	0.41
5:E:55:MET:HE3	12:L:266:MET:HE2	2.01	0.41
7:G:197:ASN:H	14:Q:25:GLU:N	2.17	0.41
7:G:201:LEU:HB2	14:Q:24:LYS:HZ3	1.82	0.41
8:H:49:ARG:HH12	8:H:164:LYS:HB2	1.84	0.41
8:H:197:THR:HG22	8:H:284:HIS:HD1	1.85	0.41
8:H:208:PHE:HD2	8:H:436:VAL:HG21	1.85	0.41
8:H:320:VAL:O	8:H:335:PRO:HB3	2.21	0.41
8:H:456:GLN:HB2	8:H:462:LYS:HE2	2.02	0.41
10:J:88:LEU:HD23	10:J:89:LYS:HZ3	1.82	0.41
10:J:317:ASP:HB3	10:J:321:ARG:HH12	1.85	0.41
11:K:314:GLN:HE21	11:K:314:GLN:HB3	1.74	0.41
12:L:55:ILE:HG12	12:L:130:LEU:CD2	2.50	0.41
12:L:73:HIS:O	12:L:77:ARG:HG3	2.19	0.41
12:L:134:ILE:HB	12:L:627:GLU:HG2	2.02	0.41
12:L:286:LYS:HE2	12:L:286:LYS:HA	2.02	0.41
12:L:413:GLN:HG2	12:L:417:GLU:OE2	2.20	0.41
12:L:672:GLU:HA	12:L:719:SER:O	2.20	0.41
12:L:697:LYS:O	12:L:697:LYS:HD2	2.19	0.41
12:L:700:MET:HA	12:L:734:PHE:HE1	1.84	0.41
13:P:293:LYS:NZ	14:R:178:PHE:CB	2.79	0.41
13:P:326:GLU:HB3	13:P:328:TYR:HE1	1.85	0.41
14:Q:136:VAL:CG1	14:Q:154:ILE:HD12	2.33	0.41
15:s:146:PHE:HA	15:s:149:MET:CE	2.47	0.41
1:A:31:ILE:CD1	1:A:140:MET:HE3	2.49	0.41
2:B:117:GLU:HA	2:B:120:PHE:HD2	1.82	0.41
2:B:192:LYS:C	2:B:195:GLU:HG2	2.45	0.41
3:C:48:ASN:CB	3:C:53:LYS:HB3	2.49	0.41
3:C:401:LEU:CD1	3:C:405:LEU:HG	2.49	0.41
5:E:23:MET:HE3	5:E:27:ASP:OD2	2.20	0.41
6:F:256:LEU:CD2	6:F:290:LEU:HD22	2.51	0.41
6:F:298:ASN:HB2	6:F:326:ASN:ND2	2.36	0.41
7:G:179:ILE:HB	7:G:206:ASN:CB	2.50	0.41
8:H:144:ASP:HA	8:H:146:PRO:HD3	2.03	0.41
8:H:303:GLU:HB2	8:H:308:ARG:N	2.34	0.41
8:H:513:VAL:HG22	8:H:523:ILE:CD1	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:554:ASP:O	8:H:555:ARG:HB2	2.20	0.41
8:H:594:LYS:CG	8:H:609:LYS:HG2	2.47	0.41
9:I:39:LYS:O	9:I:42:ILE:HG12	2.21	0.41
9:I:145:THR:O	9:I:146:ASN:OD1	2.38	0.41
10:J:12:ILE:HD11	11:K:156:PHE:HE2	1.86	0.41
10:J:299:GLN:HB3	10:J:303:ARG:NH1	2.36	0.41
10:J:361:LYS:HD2	10:J:361:LYS:N	2.36	0.41
12:L:127:PRO:HB3	12:L:534:GLN:CG	2.51	0.41
12:L:258:GLU:HA	12:L:261:LEU:HG	2.02	0.41
12:L:346:GLN:NE2	12:L:476:LYS:HG2	2.35	0.41
12:L:429:THR:HG23	12:L:430:ASN:N	2.36	0.41
12:L:469:ARG:NH1	12:L:470:LEU:HD21	2.36	0.41
12:L:502:LYS:HA	12:L:502:LYS:HD3	1.78	0.41
12:L:541:GLN:HB3	12:L:573:PRO:HG3	2.02	0.41
12:L:595:LYS:HA	12:L:713:ARG:HD3	2.01	0.41
13:P:104:SER:OG	13:P:105:GLU:N	2.48	0.41
13:P:293:LYS:HB3	14:R:174:GLN:HA	2.03	0.41
13:P:364:TYR:HA	13:P:365:PRO:HA	1.82	0.41
14:R:111:ILE:HA	14:R:114:LYS:HZ2	1.85	0.41
14:R:187:ASP:OD2	14:R:189:ARG:CG	2.69	0.41
15:S:36:LEU:HD21	15:S:40:GLN:NE2	2.36	0.41
1:A:41:PHE:HE1	1:A:45:LYS:HE2	1.85	0.41
1:A:224:LEU:HD11	2:B:219:LYS:HZ2	1.85	0.41
1:A:273:GLU:OE2	1:A:274:LEU:HG	2.19	0.41
2:B:259:LYS:HE3	2:B:262:LYS:HE3	2.01	0.41
3:C:65:ARG:NE	3:C:85:ARG:HG3	2.36	0.41
3:C:76:LYS:HG3	3:C:98:LYS:HZ1	1.83	0.41
3:C:212:HIS:ND1	3:C:246:TYR:HE1	2.16	0.41
3:C:517:LEU:O	3:C:521:MET:HE3	2.21	0.41
4:D:290:GLU:HB2	4:D:291:PRO:HD3	2.01	0.41
6:F:84:ASN:C	6:F:84:ASN:HD22	2.25	0.41
7:G:61:GLU:OE2	7:G:61:GLU:N	2.53	0.41
7:G:76:THR:CA	7:G:104:TYR:HD1	2.33	0.41
7:G:179:ILE:HG22	7:G:208:LEU:CD2	2.50	0.41
8:H:454:ILE:O	8:H:463:VAL:HA	2.21	0.41
10:J:198:LEU:CD2	11:K:261:GLU:HB3	2.50	0.41
11:K:339:GLU:O	11:K:343:ALA:N	2.36	0.41
12:L:284:GLN:CD	12:L:287:ARG:HD3	2.45	0.41
12:L:348:PRO:HG3	12:L:461:ILE:HG22	1.99	0.41
13:P:114:ASP:O	13:P:118:ARG:HG3	2.21	0.41
13:P:171:LYS:HG2	13:P:176:ASN:HB2	1.99	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:Q:178:PHE:CZ	14:Q:195:VAL:HG13	2.55	0.41
14:R:73:LEU:HD13	14:R:108:VAL:CG2	2.25	0.41
14:R:129:PHE:HZ	14:R:199:LEU:HD12	1.85	0.41
15:s:75:THR:C	15:s:78:MET:HG2	2.45	0.41
1:A:209:ASN:HB3	2:B:204:LYS:HZ3	1.85	0.41
1:A:239:PHE:CD2	1:A:242:MET:HE2	2.56	0.41
3:C:135:LEU:HD12	3:C:155:PHE:CZ	2.55	0.41
3:C:288:GLU:C	3:C:292:ILE:HG13	2.45	0.41
4:D:143:LYS:CE	8:H:399:GLN:OE1	2.68	0.41
6:F:181:TYR:HE1	6:F:183:LYS:CE	2.30	0.41
6:F:222:ARG:HA	6:F:225:MET:HE3	1.98	0.41
6:F:325:GLY:N	6:F:353:ALA:O	2.54	0.41
6:F:350:LEU:CB	6:F:378:LEU:HD13	2.49	0.41
7:G:76:THR:O	7:G:107:LYS:HE2	2.21	0.41
8:H:325:ASN:OD1	8:H:327:LEU:N	2.43	0.41
8:H:524:LYS:HG2	8:H:536:GLU:HG3	2.02	0.41
8:H:641:SER:OG	8:H:646:ALA:HB2	2.21	0.41
9:I:48:TYR:CD1	9:I:170:HIS:CE1	3.09	0.41
9:I:62:ILE:HG12	9:I:83:TYR:OH	2.20	0.41
10:J:268:GLN:O	10:J:272:GLU:HG3	2.20	0.41
10:J:354:TRP:HB2	14:Q:112:VAL:CG1	2.50	0.41
10:J:354:TRP:HZ3	14:Q:111:ILE:HB	1.86	0.41
11:K:395:GLU:O	11:K:399:ILE:HG13	2.21	0.41
12:L:83:MET:O	12:L:412:LEU:HD21	2.20	0.41
12:L:156:LEU:HD21	12:L:511:ALA:HB2	2.01	0.41
12:L:568:PRO:HG2	12:L:827:LYS:HE2	2.02	0.41
12:L:722:ARG:HD3	12:L:722:ARG:HA	1.81	0.41
12:L:751:LEU:O	12:L:755:THR:HG23	2.19	0.41
13:P:329:THR:HG23	13:P:356:ARG:CG	2.47	0.41
15:S:120:ASP:OD1	15:S:120:ASP:C	2.64	0.41
15:s:100:VAL:HA	15:s:103:LYS:NZ	2.35	0.41
1:A:74:LEU:HD23	1:A:74:LEU:C	2.45	0.41
2:B:244:THR:O	2:B:244:THR:HG22	2.19	0.41
3:C:133:LEU:HG	3:C:155:PHE:CD1	2.56	0.41
4:D:233:LYS:O	4:D:237:GLN:OE1	2.37	0.41
5:E:219:LEU:HD11	5:E:223:HIS:CE1	2.56	0.41
6:F:62:ASP:HA	6:F:85:ARG:NH2	2.29	0.41
6:F:198:GLU:C	6:F:201:LYS:HG2	2.45	0.41
6:F:214:ASN:CB	6:F:216:ILE:HG13	2.51	0.41
7:G:221:LYS:CB	14:Q:99:GLU:HB2	2.45	0.41
8:H:54:LYS:NZ	8:H:104:CYS:HB3	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:115:ARG:HH11	8:H:406:PRO:HB2	1.85	0.41
8:H:187:CYS:O	8:H:323:VAL:HG13	2.20	0.41
8:H:470:TYR:HB3	8:H:473:ARG:CD	2.50	0.41
11:K:116:ILE:HG21	11:K:152:LEU:HB2	2.02	0.41
11:K:247:PHE:HA	11:K:250:GLU:HG2	2.02	0.41
11:K:327:LYS:O	11:K:330:GLN:HB2	2.21	0.41
11:K:415:LEU:H	14:Q:145:ASN:CB	2.32	0.41
12:L:232:GLU:OE1	9:i:107:LEU:HD22	2.21	0.41
12:L:609:PHE:CE1	12:L:739:ILE:HD13	2.55	0.41
14:Q:81:PHE:HE2	14:Q:115:LYS:HE2	1.83	0.41
14:R:34:LEU:O	14:R:37:ASP:OD1	2.38	0.41
14:R:37:ASP:OD1	14:R:37:ASP:C	2.63	0.41
9:i:53:PRO:HB3	9:i:93:TYR:CG	2.56	0.41
15:s:142:MET:HA	15:s:145:GLU:CG	2.48	0.41
1:A:33:ASN:OD1	6:F:382:GLY:N	2.53	0.41
1:A:245:LEU:O	1:A:249:ILE:HG12	2.19	0.41
2:B:58:GLN:HA	5:E:39:VAL:HB	2.02	0.41
2:B:58:GLN:HA	5:E:39:VAL:N	2.26	0.41
2:B:174:GLN:O	2:B:178:LEU:HG	2.20	0.41
3:C:301:ILE:HD11	3:C:464:GLU:CB	2.50	0.41
6:F:93:ILE:HG23	6:F:98:HIS:CE1	2.56	0.41
6:F:131:GLN:HG3	6:F:161:TYR:CZ	2.55	0.41
6:F:296:LYS:HD3	6:F:322:ASP:CG	2.46	0.41
7:G:192:SER:HA	7:G:222:VAL:HG21	2.03	0.41
7:G:325:LYS:HG2	7:G:329:MET:HE3	2.02	0.41
8:H:168:PHE:HZ	8:H:189:TYR:CG	2.39	0.41
8:H:291:SER:HB2	8:H:296:VAL:O	2.21	0.41
8:H:294:ARG:HG3	8:H:294:ARG:O	2.20	0.41
8:H:338:GLU:OE1	8:H:340:LYS:HE3	2.21	0.41
8:H:790:LYS:HE2	8:H:811:ILE:HD11	2.02	0.41
9:I:120:MET:HG3	9:I:124:PHE:CE2	2.56	0.41
9:I:122:LYS:HG3	9:I:126:GLU:CD	2.46	0.41
11:K:247:PHE:O	11:K:250:GLU:HG2	2.20	0.41
12:L:68:TYR:CE1	12:L:77:ARG:HB3	2.53	0.41
12:L:251:LYS:N	9:i:166:PHE:HE2	2.18	0.41
12:L:529:ASP:O	12:L:531:LYS:NZ	2.45	0.41
13:P:141:TYR:O	13:P:229:ILE:HG22	2.20	0.41
13:P:162:HIS:HB2	13:P:184:HIS:CD2	2.56	0.41
13:P:320:GLN:HG3	14:R:163:LEU:HD23	2.03	0.41
14:Q:21:LYS:CG	14:Q:26:ILE:HD11	2.50	0.41
14:R:54:PHE:CE1	14:R:65:ILE:HG23	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:R:159:PHE:CG	14:R:190:ILE:HG21	2.56	0.41
15:S:107:ILE:CD1	15:s:103:LYS:HD2	2.51	0.41
1:A:108:LYS:HE3	2:B:99:LEU:CD1	2.51	0.41
1:A:176:GLU:O	1:A:180:LYS:NZ	2.53	0.41
1:A:237:LYS:HE3	4:D:239:TYR:CD2	2.56	0.41
1:A:260:LEU:HD13	2:B:255:HIS:CE1	2.55	0.41
1:A:275:LYS:HA	1:A:275:LYS:CE	2.43	0.41
2:B:14:ARG:N	2:B:15:PRO:CD	2.84	0.41
2:B:56:ASP:N	5:E:36:LYS:C	2.79	0.41
2:B:62:THR:O	2:B:65:LYS:HB3	2.21	0.41
3:C:71:PHE:HA	3:C:93:ASN:O	2.20	0.41
3:C:76:LYS:HG2	3:C:77:ILE:N	2.36	0.41
3:C:111:LEU:HD22	3:C:130:LEU:CD2	2.50	0.41
3:C:165:TYR:CE2	3:C:166:GLU:HG2	2.55	0.41
3:C:273:LYS:CG	3:C:329:ILE:HG21	2.50	0.41
3:C:548:GLN:HE21	8:H:629:GLU:HG2	1.85	0.41
5:E:29:THR:O	5:E:32:LEU:HB2	2.21	0.41
6:F:104:VAL:HG12	6:F:140:TRP:HB3	2.03	0.41
6:F:146:LEU:HB3	6:F:149:ILE:CD1	2.45	0.41
6:F:153:ILE:CG2	6:F:155:ILE:HD11	2.50	0.41
6:F:237:LEU:HD21	6:F:239:LEU:CD1	2.50	0.41
6:F:293:LEU:HD11	6:F:295:LEU:CG	2.51	0.41
8:H:77:VAL:HG21	8:H:109:PHE:CD1	2.56	0.41
8:H:98:LEU:HD22	8:H:109:PHE:HE1	1.85	0.41
8:H:115:ARG:HE	8:H:409:PRO:C	2.29	0.41
8:H:117:THR:HG21	8:H:411:ILE:N	2.36	0.41
8:H:145:PRO:HA	8:H:146:PRO:HD3	1.98	0.41
8:H:156:PRO:HA	8:H:159:VAL:HB	2.03	0.41
8:H:173:LEU:CD1	8:H:411:ILE:HD13	2.51	0.41
8:H:260:ARG:HD2	8:H:261:ILE:N	2.36	0.41
8:H:394:LEU:HD23	8:H:394:LEU:C	2.46	0.41
8:H:444:GLN:HB2	8:H:447:GLY:H	1.85	0.41
8:H:459:LYS:CD	8:H:461:LEU:HD12	2.49	0.41
8:H:506:ALA:HA	8:H:509:GLN:CD	2.46	0.41
8:H:536:GLU:O	8:H:548:PHE:HD1	2.03	0.41
8:H:561:ILE:O	8:H:561:ILE:HG23	2.20	0.41
8:H:575:ASP:CG	8:H:677:LEU:HD11	2.46	0.41
8:H:583:VAL:O	8:H:583:VAL:CG1	2.68	0.41
8:H:832:LYS:HA	8:H:835:GLU:HB2	2.03	0.41
9:I:159:TYR:CA	9:I:162:ARG:HH21	2.34	0.41
10:J:170:GLN:HG3	11:K:233:ILE:HD13	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:216:ALA:CB	11:K:280:LEU:HD22	2.51	0.41
10:J:291:LEU:HB3	11:K:355:ILE:HG22	2.01	0.41
11:K:271:LYS:HD2	11:K:272:LYS:N	2.35	0.41
12:L:87:VAL:HG23	12:L:412:LEU:HD22	2.03	0.41
12:L:87:VAL:HA	12:L:412:LEU:HD11	2.01	0.41
12:L:157:LEU:C	12:L:161:THR:HG1	2.21	0.41
12:L:251:LYS:HA	9:i:166:PHE:CZ	2.55	0.41
12:L:339:ASN:HB3	12:L:343:GLU:H	1.86	0.41
12:L:513:LEU:CD2	12:L:518:VAL:HG11	2.48	0.41
12:L:526:SER:HG	12:L:528:MET:CG	2.33	0.41
12:L:649:GLN:O	12:L:653:MET:HG2	2.20	0.41
13:P:153:TYR:CD2	13:P:243:VAL:HG11	2.38	0.41
13:P:236:ASP:OD1	13:P:239:GLN:N	2.45	0.41
13:P:291:ASP:C	14:R:202:ARG:HH12	2.29	0.41
13:P:293:LYS:HB3	14:R:174:GLN:C	2.45	0.41
13:P:355:LEU:HD12	13:P:356:ARG:H	1.86	0.41
14:Q:157:GLU:OE1	14:Q:157:GLU:N	2.53	0.41
14:R:53:ASN:HB3	14:R:73:LEU:HA	2.03	0.41
15:S:9:LYS:CE	15:S:11:LYS:HE3	2.51	0.41
15:S:103:LYS:HZ1	15:s:104:ASP:CB	2.31	0.41
9:i:41:GLU:O	9:i:45:ILE:N	2.43	0.41
15:s:64:PHE:CZ	15:s:68:LYS:HD2	2.56	0.41
15:s:111:ASP:O	15:s:115:GLN:HG3	2.20	0.41
1:A:8:LYS:HZ3	1:A:166:PHE:HD1	1.69	0.41
2:B:50:LEU:HD12	4:D:44:ALA:HB1	2.03	0.41
3:C:549:ILE:O	3:C:553:ILE:HG23	2.21	0.41
6:F:44:LEU:HD22	6:F:52:ARG:HD2	2.03	0.41
6:F:293:LEU:HB3	6:F:318:LEU:HD21	2.02	0.41
6:F:321:LEU:HD11	6:F:323:VAL:CG2	2.51	0.41
6:F:414:GLN:C	6:F:417:ILE:HG12	2.46	0.41
7:G:34:ILE:HD12	7:G:67:GLY:HA2	2.02	0.41
7:G:130:GLY:HA3	7:G:158:GLN:O	2.21	0.41
7:G:160:ALA:HA	7:G:164:CYS:H	1.86	0.41
7:G:196:THR:OG1	14:Q:24:LYS:CA	2.69	0.41
8:H:98:LEU:C	8:H:100:PRO:HD2	2.46	0.41
8:H:260:ARG:HD2	8:H:260:ARG:C	2.46	0.41
9:I:94:GLU:CG	9:I:95:PRO:HD2	2.50	0.41
9:I:111:GLU:HB3	9:I:113:LYS:HZ3	1.86	0.41
10:J:2:ASN:HD22	11:K:79:SER:HB2	1.86	0.41
10:J:51:LEU:CD1	10:J:87:ASN:HB3	2.50	0.41
10:J:351:TYR:CD2	14:Q:79:ILE:HG12	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:271:LYS:NZ	11:K:272:LYS:HG2	2.36	0.41
11:K:374:LYS:O	11:K:378:GLU:HG3	2.21	0.41
12:L:154:ASP:HA	12:L:157:LEU:HD12	2.03	0.41
12:L:244:TRP:HZ3	9:i:143:PHE:CD2	2.39	0.41
12:L:284:GLN:NE2	12:L:287:ARG:HH11	2.14	0.41
12:L:606:TYR:HD2	12:L:736:ASP:OD2	2.03	0.41
12:L:709:GLU:OE1	12:L:711:GLU:HB3	2.21	0.41
14:R:126:THR:O	14:R:130:LYS:CD	2.67	0.41
15:S:67:GLU:OE2	15:s:64:PHE:CE1	2.74	0.41
9:i:6:THR:HB	9:i:10:GLU:HG2	2.03	0.41
9:i:77:TYR:CE1	9:i:81:GLU:HB2	2.55	0.41
1:A:2:ASN:O	1:A:6:THR:HG23	2.21	0.40
1:A:191:LEU:HD12	1:A:194:GLN:HE22	1.85	0.40
2:B:53:ARG:HB3	2:B:58:GLN:OE1	2.20	0.40
2:B:60:VAL:HG12	9:i:179:ASN:O	2.21	0.40
2:B:135:MET:SD	2:B:139:GLU:CD	3.04	0.40
3:C:172:PHE:HD2	3:C:217:ILE:HA	1.85	0.40
3:C:273:LYS:HG3	3:C:329:ILE:CG2	2.52	0.40
3:C:391:LEU:CB	3:C:564:LEU:HD11	2.47	0.40
6:F:321:LEU:HD11	6:F:323:VAL:HG13	2.01	0.40
7:G:43:LYS:HG2	7:G:54:ILE:HG12	2.03	0.40
8:H:836:MET:HG2	8:H:840:LEU:HD23	2.02	0.40
9:I:144:ALA:HA	9:I:159:TYR:CD1	2.56	0.40
11:K:250:GLU:OE2	11:K:251:LYS:HE2	2.20	0.40
12:L:24:GLU:HG2	12:L:49:PHE:CZ	2.56	0.40
12:L:394:ASP:O	12:L:398:GLU:HG3	2.21	0.40
12:L:694:LYS:O	12:L:694:LYS:HG3	2.20	0.40
13:P:320:GLN:HB2	14:R:165:THR:N	2.36	0.40
14:R:65:ILE:O	14:R:103:ILE:HG12	2.21	0.40
14:R:178:PHE:CZ	14:R:198:LYS:HB3	2.56	0.40
9:i:17:PHE:CD1	9:i:177:GLY:O	2.74	0.40
1:A:243:LYS:HE3	2:B:236:MET:CG	2.51	0.40
2:B:79:ALA:O	2:B:83:GLN:HG3	2.22	0.40
3:C:64:LEU:HB2	3:C:85:ARG:NH2	2.37	0.40
3:C:79:HIS:O	3:C:80:LEU:HD23	2.21	0.40
3:C:289:TYR:CE2	3:C:290:LEU:HG	2.56	0.40
4:D:151:VAL:HG13	5:E:138:LEU:HD22	2.02	0.40
6:F:217:ASP:HA	6:F:243:LYS:C	2.46	0.40
6:F:306:LYS:CE	6:F:335:LYS:HE3	2.35	0.40
7:G:107:LYS:HD2	7:G:107:LYS:C	2.46	0.40
8:H:193:PRO:HB2	8:H:195:GLU:HG2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:513:VAL:CG2	8:H:523:ILE:HG12	2.42	0.40
8:H:643:HIS:CE1	8:H:670:VAL:HG22	2.57	0.40
10:J:191:ILE:HG21	11:K:254:GLU:OE2	2.21	0.40
12:L:10:TRP:CD1	12:L:14:ILE:HG13	2.56	0.40
12:L:64:LEU:HD22	12:L:83:MET:CE	2.51	0.40
12:L:127:PRO:CB	12:L:534:GLN:HB2	2.43	0.40
12:L:245:ARG:NH1	9:i:55:GLU:HG2	2.35	0.40
12:L:526:SER:HB3	12:L:529:ASP:OD1	2.20	0.40
13:P:258:GLN:HG3	14:R:161:GLU:CD	2.46	0.40
13:P:296:GLY:HA3	13:P:297:PRO:HD3	1.83	0.40
14:Q:36:GLN:O	14:Q:40:LYS:CA	2.66	0.40
14:Q:160:LYS:NZ	14:Q:176:ASN:OD1	2.42	0.40
9:i:26:PHE:HE2	9:i:35:GLY:C	2.30	0.40
9:i:58:VAL:HG13	9:i:62:ILE:HD12	2.03	0.40
1:A:33:ASN:HB2	6:F:403:PHE:CD2	2.56	0.40
1:A:245:LEU:O	1:A:249:ILE:CG2	2.69	0.40
3:C:212:HIS:CE1	3:C:246:TYR:HH	2.35	0.40
3:C:378:GLU:O	3:C:378:GLU:HG3	2.22	0.40
3:C:410:ILE:HG22	3:C:414:GLU:OE2	2.22	0.40
4:D:57:LEU:CD2	12:L:771:ASN:HB2	2.51	0.40
4:D:106:VAL:HG22	6:F:181:TYR:CB	2.52	0.40
6:F:145:ASN:HA	6:F:169:THR:HB	2.02	0.40
7:G:28:LYS:HG2	7:G:28:LYS:HZ2	1.69	0.40
7:G:118:ASP:CA	7:G:148:HIS:HB2	2.51	0.40
8:H:80:PHE:CE1	8:H:356:VAL:HG22	2.57	0.40
8:H:97:PHE:CE2	8:H:100:PRO:CG	3.01	0.40
8:H:138:VAL:O	8:H:138:VAL:HG23	2.21	0.40
8:H:183:TYR:HA	8:H:294:ARG:CB	2.50	0.40
8:H:413:ILE:CG2	8:H:414:ASP:N	2.84	0.40
9:I:163:LEU:HD12	9:I:164:GLN:N	2.36	0.40
9:I:171:ILE:HG22	9:I:175:MET:HE3	2.03	0.40
10:J:13:LEU:HD13	10:J:127:ILE:HG13	2.04	0.40
10:J:198:LEU:HD12	11:K:265:VAL:HG21	2.03	0.40
12:L:123:LEU:HD12	12:L:125:LEU:HB2	2.00	0.40
12:L:351:PHE:CE1	12:L:355:GLN:NE2	2.89	0.40
12:L:637:PRO:HB3	12:L:692:PHE:CD1	2.56	0.40
13:P:165:ASP:CG	14:R:21:LYS:HD3	2.46	0.40
13:P:281:ARG:O	13:P:282:ILE:HG13	2.21	0.40
13:P:313:PHE:HB3	14:R:176:ASN:OD1	2.22	0.40
13:P:333:PRO:HA	13:P:336:ILE:HG13	2.04	0.40
14:Q:128:ALA:O	14:Q:166:LEU:HD13	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:R:136:VAL:HG22	14:R:154:ILE:HD12	2.02	0.40
14:R:154:ILE:HD11	14:R:158:GLN:CD	2.46	0.40
14:R:157:GLU:OE1	14:R:157:GLU:N	2.54	0.40
2:B:38:GLN:CA	2:B:41:GLN:HG2	2.45	0.40
2:B:226:GLN:C	2:B:228:LYS:H	2.29	0.40
3:C:108:LEU:O	3:C:130:LEU:HA	2.20	0.40
4:D:96:LEU:HD12	5:E:85:GLU:OE1	2.22	0.40
5:E:10:LYS:HG2	9:I:5:ASN:HB2	2.04	0.40
5:E:24:THR:C	5:E:28:LEU:HD23	2.45	0.40
7:G:243:ASP:OD1	15:S:62:LYS:CG	2.69	0.40
8:H:127:TYR:CE2	8:H:128:GLN:HG3	2.56	0.40
8:H:464:LYS:O	8:H:484:PRO:CD	2.69	0.40
8:H:519:HIS:CB	8:H:541:ILE:HB	2.51	0.40
9:I:143:PHE:HD2	12:L:195:ARG:NH1	2.17	0.40
10:J:212:LYS:NZ	11:K:273:ALA:HB1	2.36	0.40
11:K:174:LYS:HD2	11:K:174:LYS:C	2.47	0.40
11:K:340:SER:O	11:K:341:TYR:C	2.62	0.40
11:K:344:LEU:HD23	11:K:348:GLN:CG	2.51	0.40
12:L:244:TRP:HZ3	9:i:143:PHE:HD2	1.70	0.40
12:L:260:GLU:O	12:L:264:LEU:HB2	2.22	0.40
12:L:510:LEU:O	12:L:514:VAL:HG23	2.21	0.40
12:L:745:ASN:O	12:L:749:ARG:HB3	2.22	0.40
13:P:303:THR:HG22	13:P:306:THR:H	1.87	0.40
9:i:15:GLU:HA	9:i:85:LEU:CD1	2.52	0.40
15:s:22:GLU:O	15:s:26:ARG:HG3	2.21	0.40
15:s:165:GLN:OE1	15:s:175:MET:HG3	2.22	0.40
1:A:170:ARG:NH2	2:B:164:ARG:HB2	2.36	0.40
2:B:62:THR:CB	9:i:179:ASN:HD22	2.35	0.40
2:B:63:PHE:HA	9:i:177:GLY:O	2.22	0.40
3:C:45:LYS:O	3:C:49:GLN:HG3	2.22	0.40
3:C:86:LEU:HD21	3:C:89:LEU:HB2	2.04	0.40
3:C:121:ILE:CD1	3:C:135:LEU:HD13	2.52	0.40
3:C:518:SER:CA	3:C:521:MET:HG2	2.51	0.40
3:C:534:GLN:CD	3:C:537:LYS:HZ1	2.29	0.40
6:F:252:ILE:HG21	6:F:267:LEU:CD1	2.52	0.40
6:F:449:GLU:N	6:F:450:PRO:CD	2.84	0.40
7:G:171:LYS:CG	7:G:199:LYS:HD3	2.52	0.40
7:G:214:HIS:ND1	7:G:266:ILE:HG12	2.36	0.40
8:H:483:TYR:HD2	8:H:488:LYS:HB3	1.86	0.40
8:H:581:ASN:CG	8:H:688:ARG:HE	2.28	0.40
8:H:593:GLN:O	8:H:594:LYS:HD3	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:113:LYS:O	10:J:117:ILE:HG13	2.21	0.40
10:J:119:PHE:O	10:J:123:ILE:HG13	2.22	0.40
11:K:416:MET:CA	14:R:56:LEU:HD22	2.51	0.40
11:K:418:ARG:HG2	11:K:419:LYS:CE	2.36	0.40
12:L:3:ASN:HB3	12:L:434:GLN:CD	2.47	0.40
12:L:54:TYR:CZ	12:L:95:LYS:HD3	2.56	0.40
12:L:124:LYS:C	12:L:125:LEU:HD22	2.47	0.40
12:L:261:LEU:HB3	12:L:266:MET:HB2	2.01	0.40
12:L:305:ILE:HD13	12:L:445:ILE:HD11	1.98	0.40
12:L:594:SER:O	12:L:713:ARG:HD3	2.21	0.40
13:P:174:TYR:CD1	13:P:360:PRO:HG3	2.56	0.40
13:P:331:VAL:HG12	13:P:332:SER:N	2.36	0.40
14:Q:70:LEU:HD23	14:Q:90:TYR:CD1	2.57	0.40
14:Q:184:PRO:HB3	14:Q:190:ILE:HG13	2.03	0.40
14:R:74:LEU:HD22	14:R:81:PHE:CD1	2.56	0.40
9:i:30:VAL:HG11	9:i:34:LYS:HA	2.04	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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	288/826 (35%)	275 (96%)	11 (4%)	2 (1%)	18	56
2	B	274/506 (54%)	243 (89%)	31 (11%)	0	100	100
3	C	529/575 (92%)	505 (96%)	24 (4%)	0	100	100
4	D	290/472 (61%)	284 (98%)	5 (2%)	1 (0%)	36	72
5	E	289/468 (62%)	277 (96%)	12 (4%)	0	100	100
6	F	459/461 (100%)	424 (92%)	35 (8%)	0	100	100
7	G	343/345 (99%)	321 (94%)	22 (6%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
8	H	816/852 (96%)	729 (89%)	87 (11%)	0	100	100
9	I	183/185 (99%)	181 (99%)	2 (1%)	0	100	100
9	i	183/185 (99%)	174 (95%)	9 (5%)	0	100	100
10	J	370/372 (100%)	349 (94%)	20 (5%)	1 (0%)	36	72
11	K	432/434 (100%)	394 (91%)	37 (9%)	1 (0%)	43	78
12	L	860/862 (100%)	823 (96%)	37 (4%)	0	100	100
13	P	303/794 (38%)	283 (93%)	20 (7%)	0	100	100
14	Q	200/202 (99%)	181 (90%)	18 (9%)	1 (0%)	24	63
14	R	200/202 (99%)	180 (90%)	20 (10%)	0	100	100
15	S	185/187 (99%)	175 (95%)	10 (5%)	0	100	100
15	s	185/187 (99%)	183 (99%)	2 (1%)	0	100	100
All	All	6389/8115 (79%)	5981 (94%)	402 (6%)	6 (0%)	49	83

All (6) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	186	LYS
4	D	114	LEU
11	K	419	LYS
1	A	236	GLU
10	J	150	ASP
14	Q	22	PRO

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	238/766 (31%)	238 (100%)	0	100	100
2	B	258/473 (54%)	257 (100%)	1 (0%)	84	84
3	C	499/540 (92%)	499 (100%)	0	100	100
4	D	272/438 (62%)	272 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
5	E	272/434 (63%)	272 (100%)	0	100	100
6	F	414/414 (100%)	414 (100%)	0	100	100
7	G	310/310 (100%)	310 (100%)	0	100	100
8	H	759/786 (97%)	759 (100%)	0	100	100
9	I	170/170 (100%)	170 (100%)	0	100	100
9	i	170/170 (100%)	170 (100%)	0	100	100
10	J	350/350 (100%)	347 (99%)	3 (1%)	70	79
11	K	403/403 (100%)	403 (100%)	0	100	100
12	L	776/776 (100%)	776 (100%)	0	100	100
13	P	284/733 (39%)	284 (100%)	0	100	100
14	Q	189/189 (100%)	189 (100%)	0	100	100
14	R	189/189 (100%)	189 (100%)	0	100	100
15	S	172/172 (100%)	172 (100%)	0	100	100
15	s	172/172 (100%)	171 (99%)	1 (1%)	78	83
All	All	5897/7485 (79%)	5892 (100%)	5 (0%)	87	89

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	B	110	ASP
10	J	150	ASP
10	J	151	ARG
10	J	153	ARG
15	s	56	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (90) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	95	GLN
1	A	102	GLN
1	A	133	GLN
1	A	194	GLN
1	A	209	ASN
1	A	267	ASN
2	B	28	GLN
2	B	41	GLN

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Mol	Chain	Res	Type
2	B	96	GLN
2	B	136	GLN
2	B	209	ASN
2	B	255	HIS
3	C	148	ASN
3	C	330	GLN
3	C	366	HIS
3	C	374	ASN
3	C	411	GLN
3	C	443	GLN
3	C	496	GLN
3	C	499	GLN
3	C	503	ASN
3	C	534	GLN
3	C	545	ASN
4	D	176	HIS
4	D	179	GLN
4	D	204	ASN
4	D	289	ASN
5	E	40	ASN
5	E	88	HIS
5	E	97	GLN
5	E	101	HIS
5	E	181	ASN
5	E	206	HIS
5	E	223	HIS
5	E	273	ASN
6	F	128	GLN
6	F	151	GLN
6	F	231	ASN
6	F	259	ASN
6	F	294	ASN
7	G	53	ASN
7	G	189	GLN
7	G	195	ASN
7	G	214	HIS
7	G	235	GLN
7	G	249	ASN
7	G	289	ASN
8	H	3	HIS
8	H	10	HIS
8	H	85	GLN

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Mol	Chain	Res	Type
8	H	102	ASN
8	H	158	ASN
8	H	284	HIS
8	H	326	ASN
8	H	332	ASN
8	H	626	ASN
8	H	643	HIS
8	H	682	GLN
10	J	3	GLN
10	J	192	GLN
10	J	231	GLN
10	J	243	GLN
10	J	252	HIS
11	K	155	ASN
11	K	245	GLN
12	L	11	GLN
12	L	33	GLN
12	L	73	HIS
12	L	75	GLN
12	L	102	ASN
12	L	284	GLN
12	L	307	ASN
12	L	415	GLN
12	L	534	GLN
12	L	643	GLN
12	L	655	ASN
13	P	284	ASN
13	P	362	GLN
14	Q	32	HIS
14	Q	36	GLN
14	Q	127	GLN
14	Q	145	ASN
14	R	32	HIS
15	S	158	GLN
15	S	165	GLN
9	i	5	ASN
9	i	170	HIS
9	i	179	ASN
9	i	180	ASN
15	s	112	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides 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](#)

There are no chain breaks in this entry.

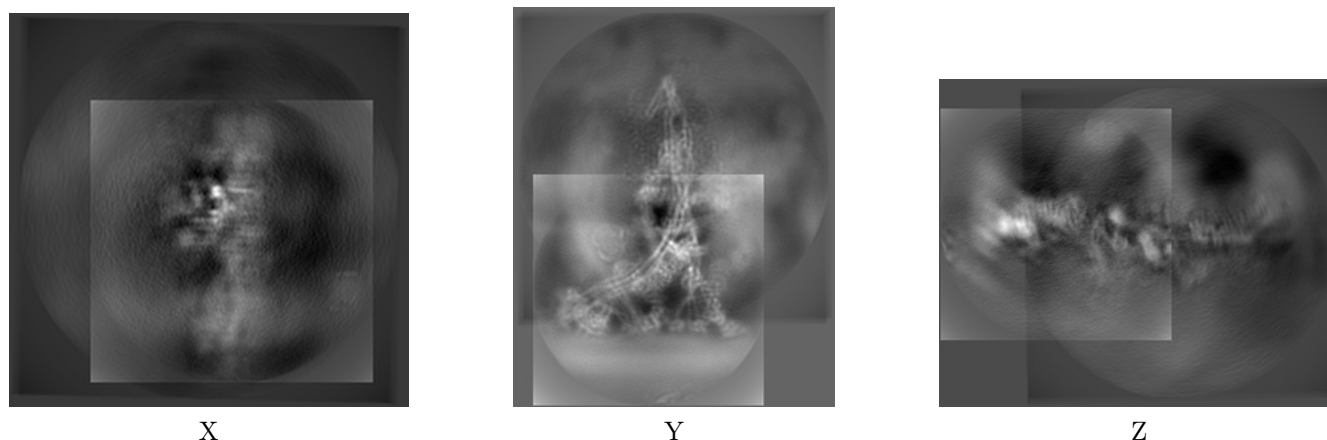
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-41251. These allow visual inspection of the internal detail of the map and identification of artifacts.

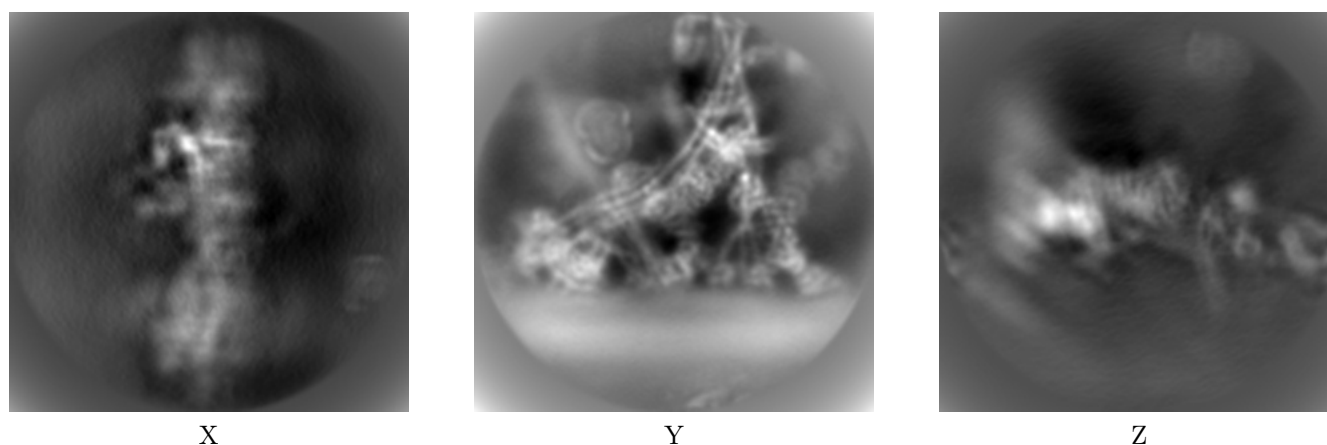
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

6.1.1 Primary map



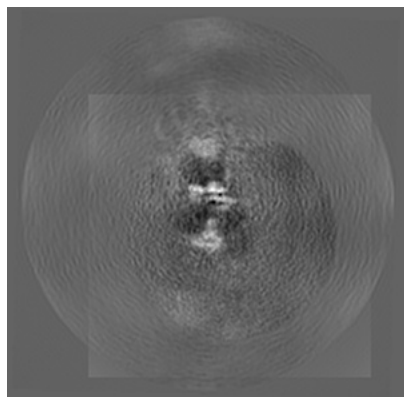
6.1.2 Raw map



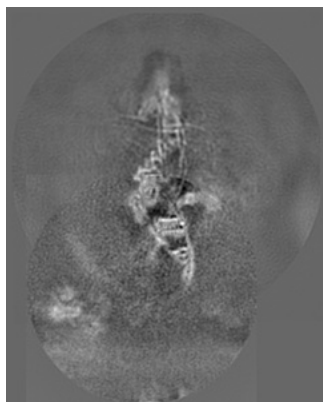
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

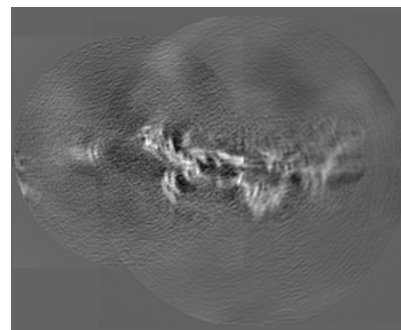
6.2.1 Primary map



X Index: 129

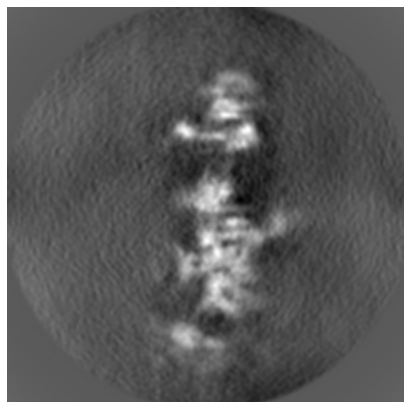


Y Index: 105

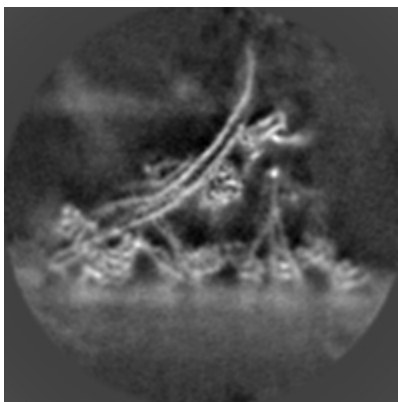


Z Index: 104

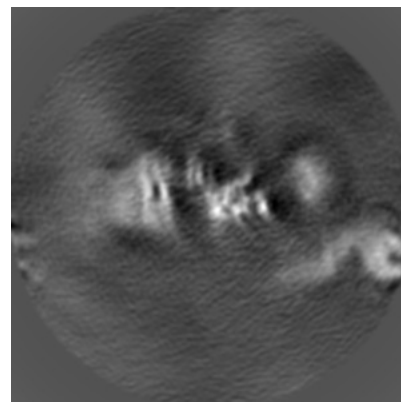
6.2.2 Raw map



X Index: 75



Y Index: 75

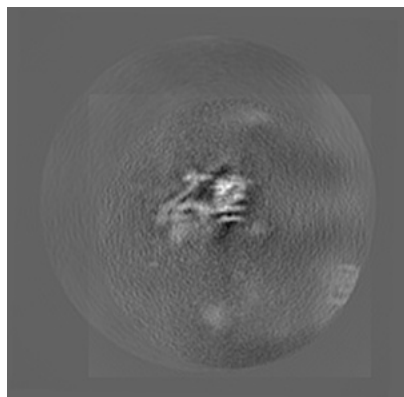


Z Index: 75

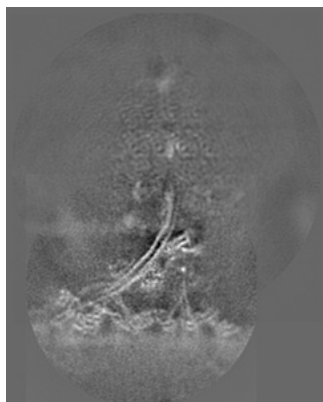
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

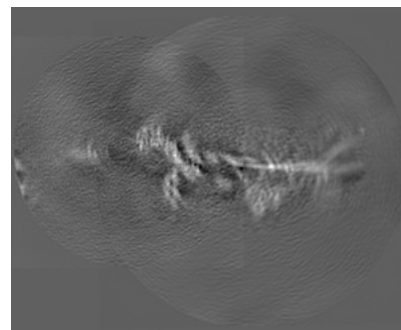
6.3.1 Primary map



X Index: 105

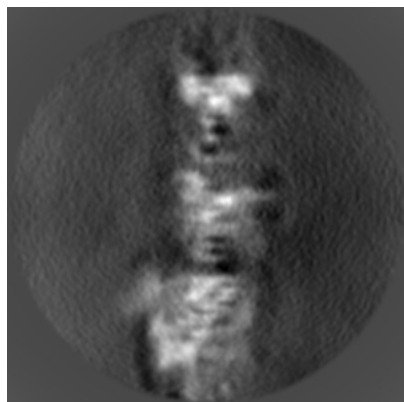


Y Index: 117

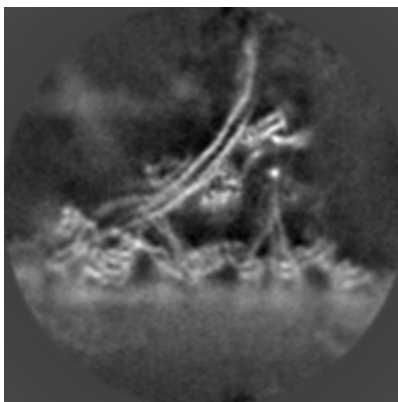


Z Index: 102

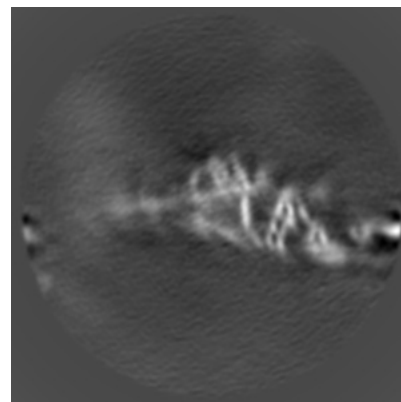
6.3.2 Raw map



X Index: 56



Y Index: 74

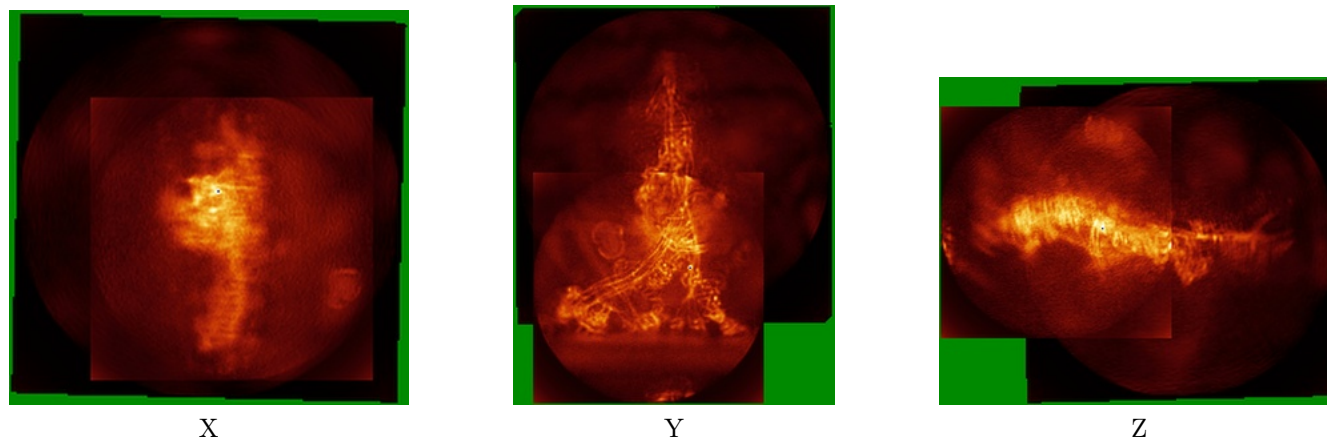


Z Index: 101

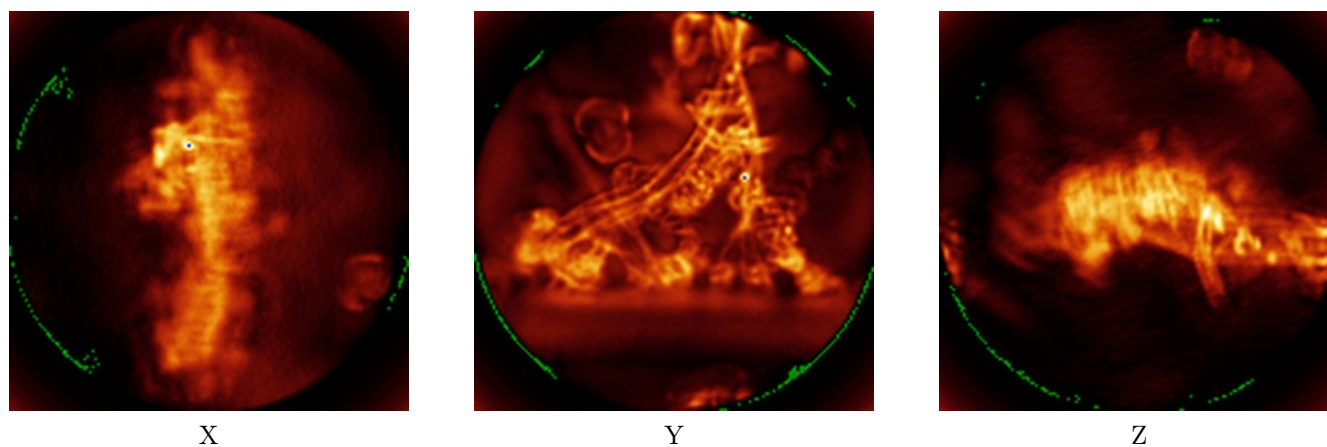
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

6.4.1 Primary map



6.4.2 Raw map



The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.0217. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 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.

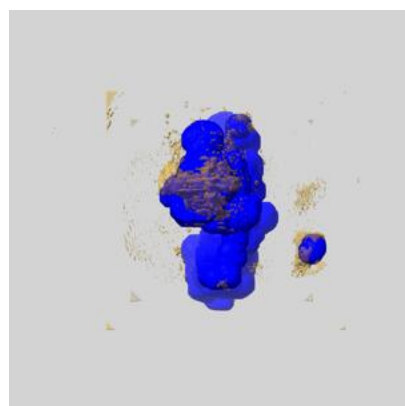
6.6 Mask visualisation [i](#)

This section shows the 3D surface view of the primary map at 50% transparency overlaid with the specified mask at 0% transparency

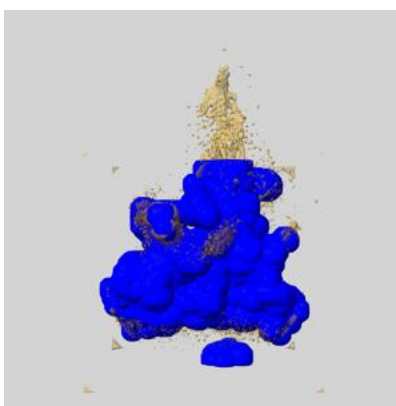
A mask typically either:

- Encompasses the whole structure
- Separates out a domain, a functional unit, a monomer or an area of interest from a larger structure

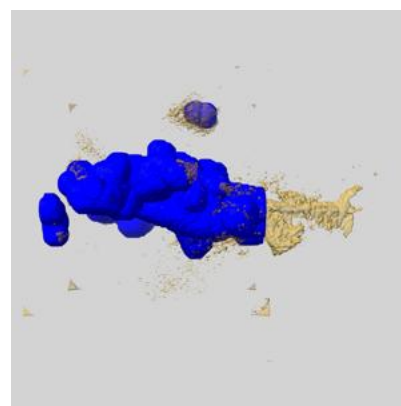
6.6.1 emd_41251_msk_1.map [i](#)



X



Y

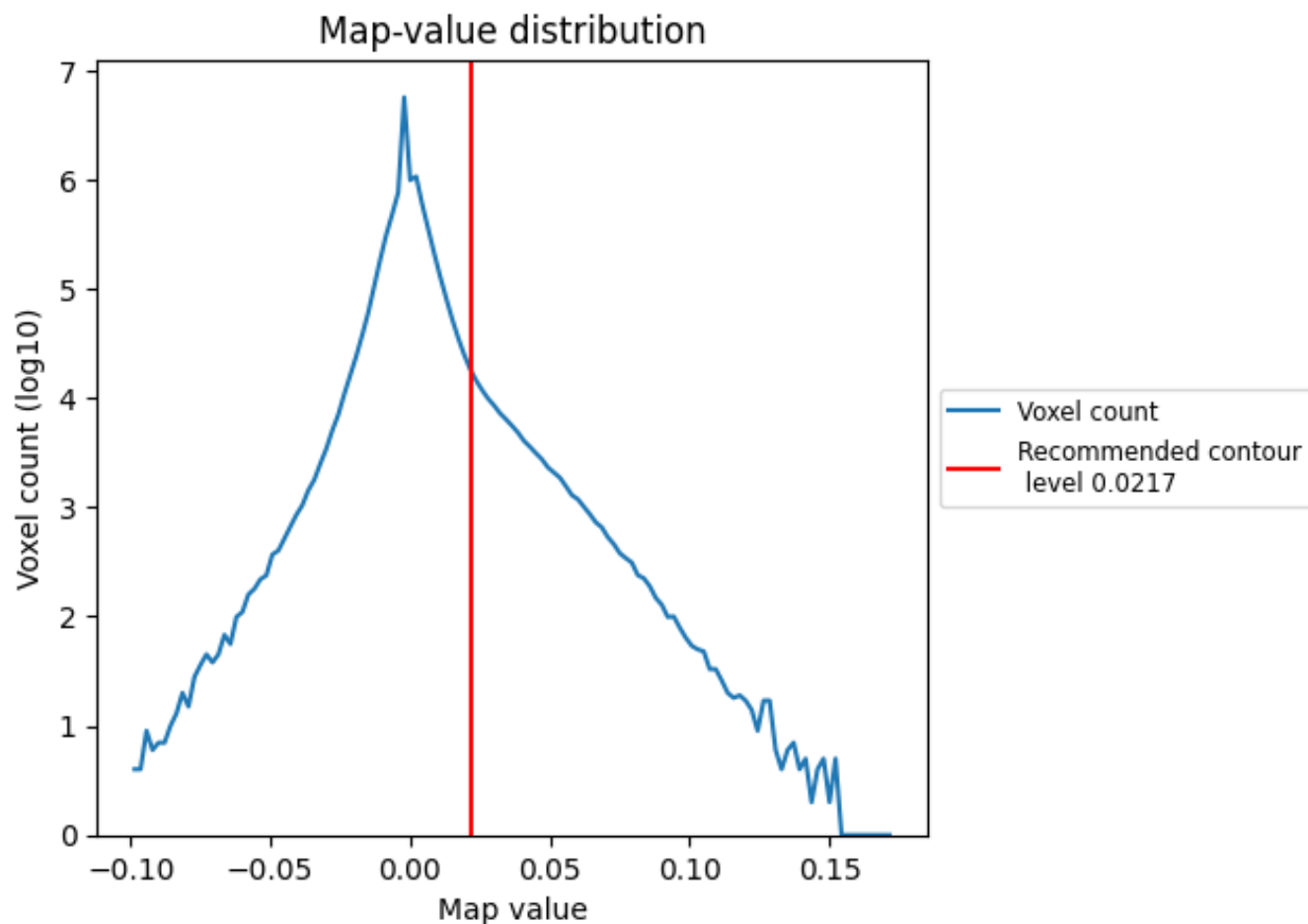


Z

7 Map analysis [i](#)

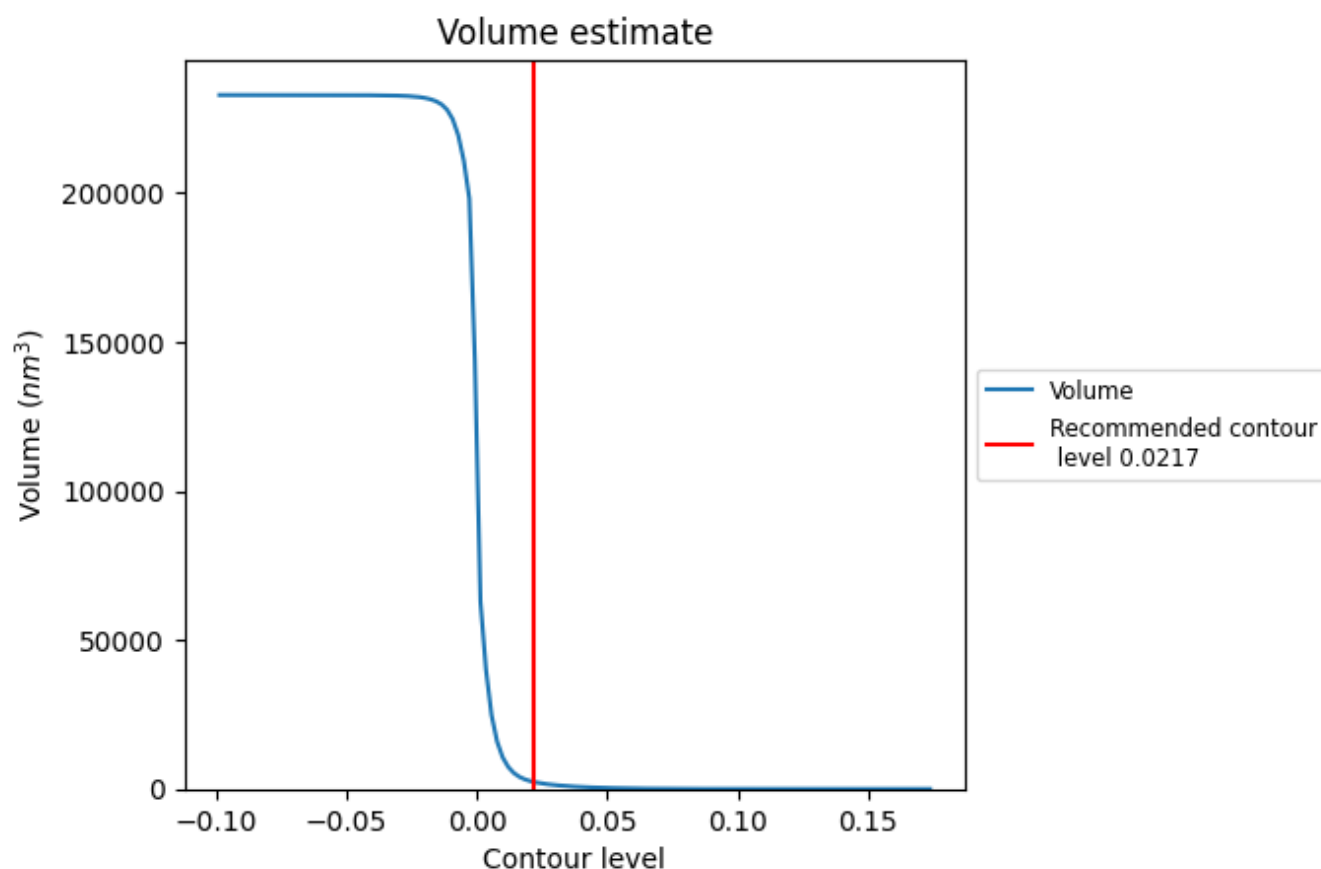
This section contains the results of statistical analysis of the map.

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 2392 nm³; this corresponds to an approximate mass of 2161 kDa.

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

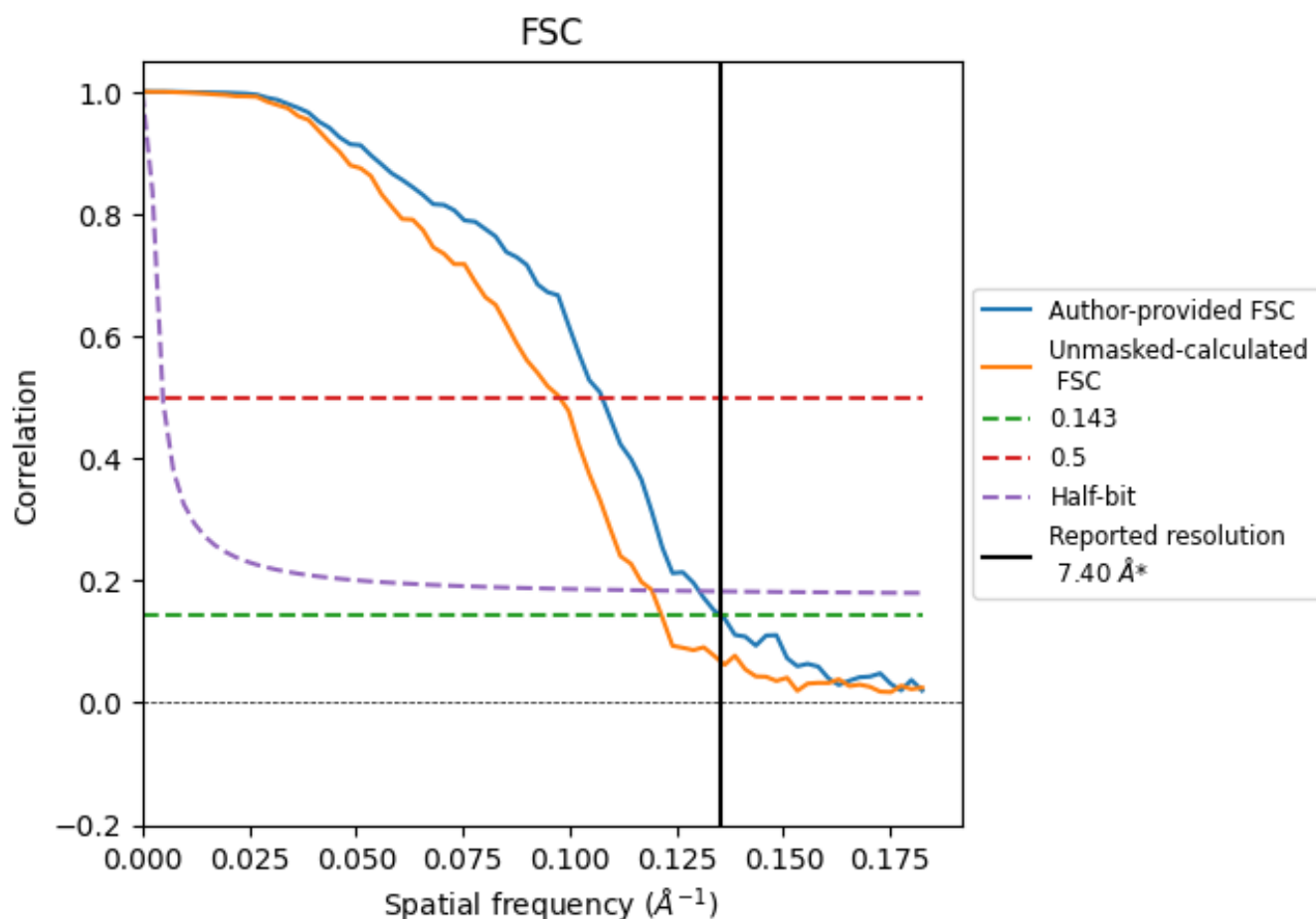
7.3 Rotationally averaged power spectrum [i](#)

This section was not generated. The rotationally averaged power spectrum is only generated for cubic maps.

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 0.135 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)			
	0.143	0.5	Half-bit	Other
Reported by author	-	-	-	7.40
Author-provided FSC curve	7.39	9.30	7.67	-
Unmasked-calculated*	8.23	10.25	8.38	-

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

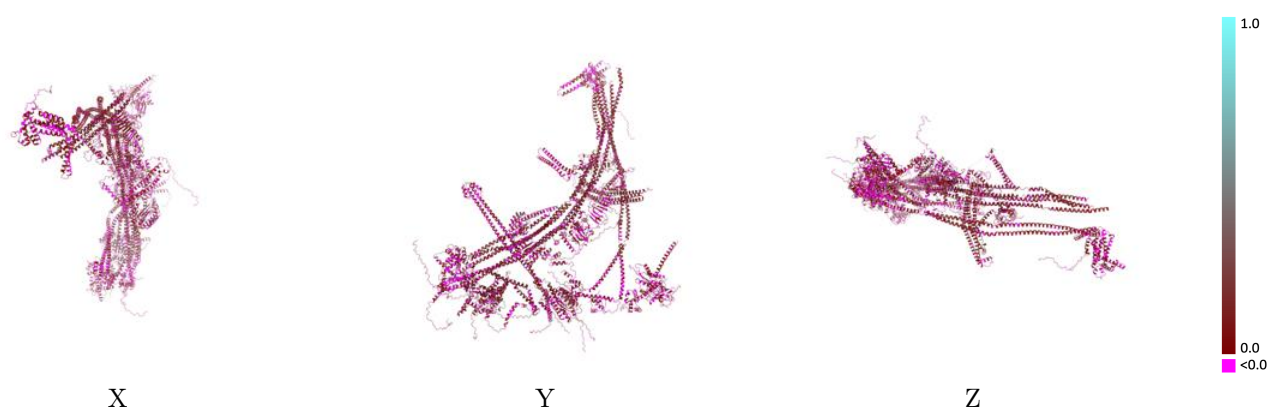
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-41251 and PDB model 8TH8. Per-residue inclusion information can be found in section 3 on page 7.

9.1 Map-model overlay [i](#)

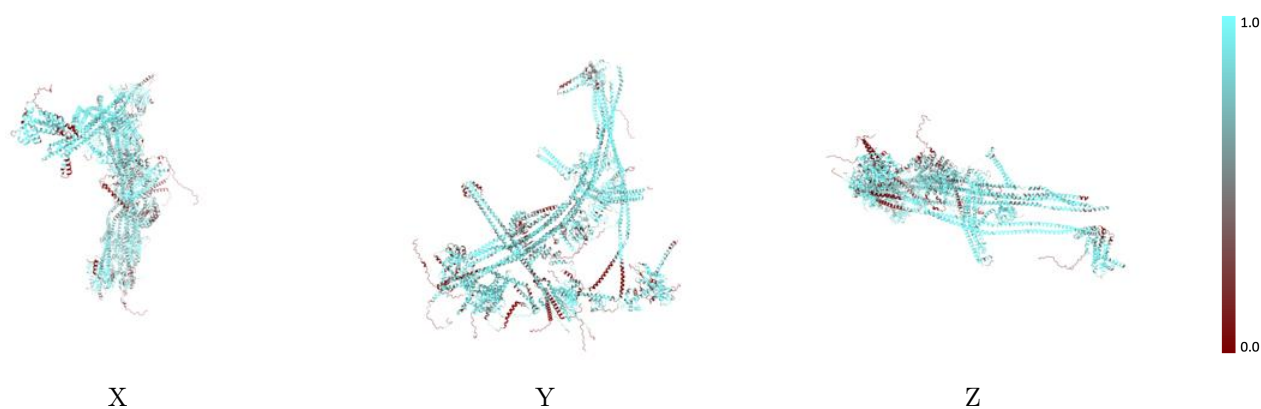
This section was not generated.

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



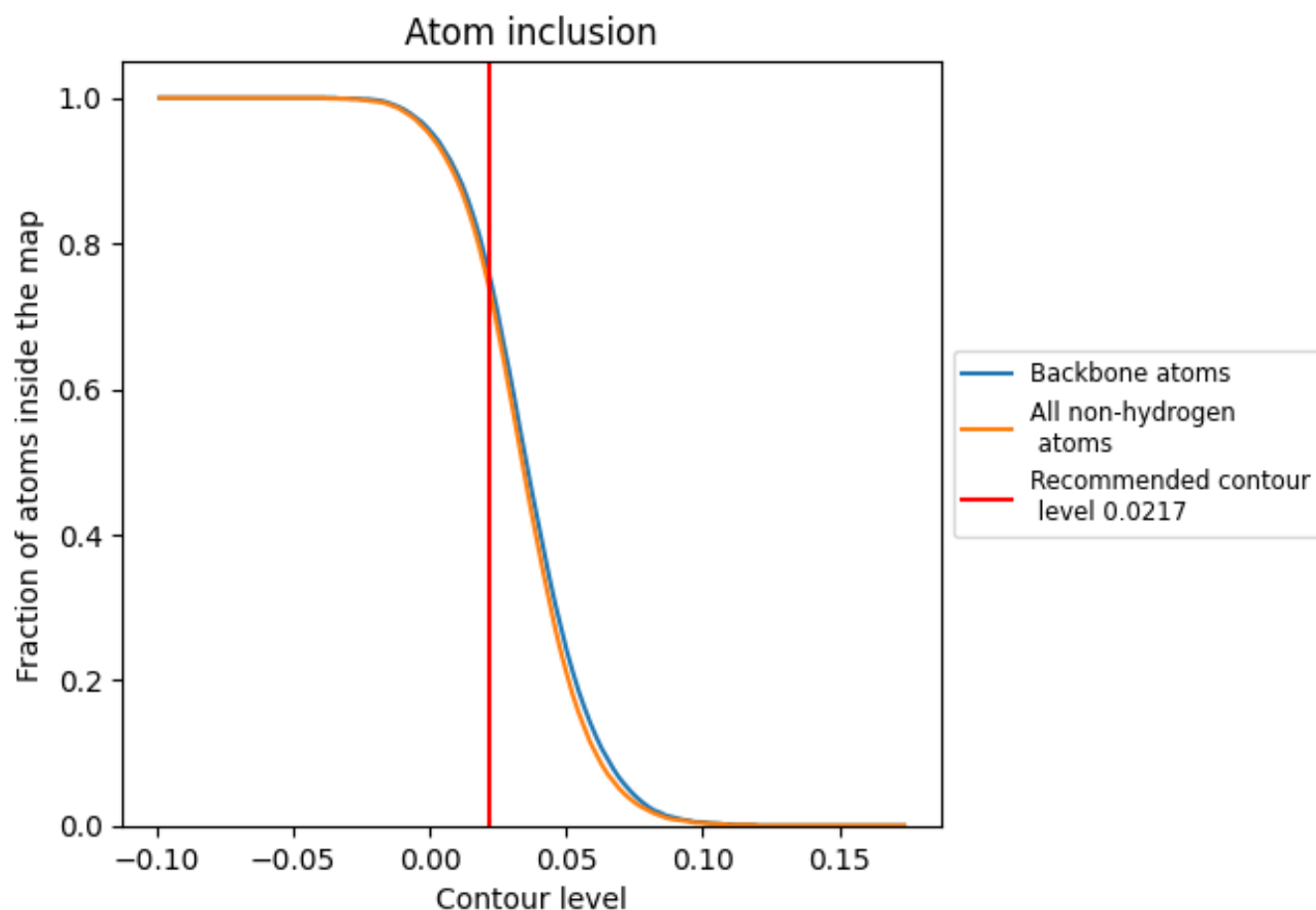
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.0217).

9.4 Atom inclusion [i](#)



At the recommended contour level, 76% of all backbone atoms, 74% 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 (0.0217) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.7420	0.0870
A	0.8020	0.1410
B	0.6920	0.1080
C	0.8960	0.1310
D	0.7720	0.1100
E	0.7300	0.0830
F	0.5790	0.0990
G	0.8340	0.0890
H	0.7290	0.0720
I	0.8710	0.0610
J	0.6900	0.0730
K	0.7400	0.0670
L	0.7820	0.0980
P	0.7140	0.0590
Q	0.6980	0.0600
R	0.7690	0.0630
S	0.5770	0.0790
i	0.7130	0.0500
s	0.4810	0.0570

