



Full wwPDB/EMDatabank EM Map/Model Validation Report ⓘ

Feb 2, 2017 – 06:56 PM EST

PDB ID : 5U8S
EMDB ID: : EMD-8518
Title : Structure of eukaryotic CMG helicase at a replication fork
Authors : Li, H.; Li, B.; Georgescu, R.; Yuan, Z.; Santos, R.; Sun, J.; Zhang, D.; Yurieva, O.; O'Donnell, M.E.
Deposited on : 2016-12-14
Resolution : 6.10 Å(reported)

This is a Full wwPDB/EMDatabank EM Map/Model Validation Report
for a publicly released PDB/EMDB entry.

We welcome your comments at validation@mail.wwpdb.org
A user guide is available at
<http://wwpdb.org/validation/2016/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

MolProbity : 4.02b-467
Mogul : 1.7.1 (RC1), CSD as537be (2016)
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : rb-20028442

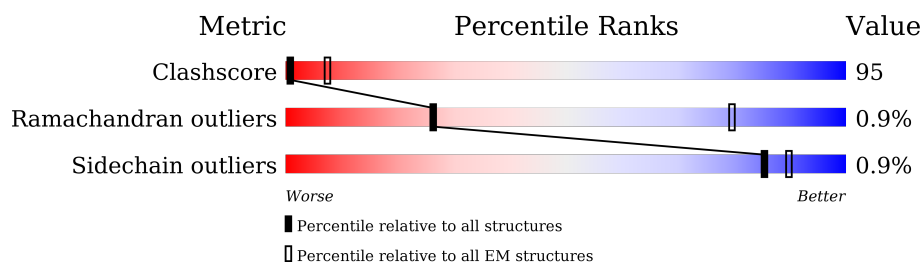
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 6.10 Å.

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






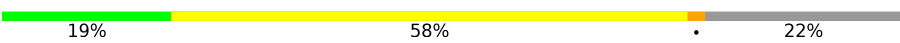
Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	114402	924
Ramachandran outliers	111179	726
Sidechain outliers	111093	686

The table below summarises the geometric issues observed across the polymeric chains. The red, orange, yellow and green segments on the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. 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 $\leq 5\%$

Mol	Chain	Length	Quality of chain
1	A	208	15% 82% .
2	B	213	10% 74% 15%
3	C	194	12% 70% 18%
4	D	294	13% 60% . 25%
5	E	650	16% 68% 15%
6	F	26	27% 73%
7	G	14	7% 93%
8	2	868	12% 56% . 31%
9	3	971	13% 47% . 39%

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Mol	Chain	Length	Quality of chain
10	4	933	
11	5	775	
12	6	1017	
13	7	845	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
14	ATP	2	901	-	-	X	-
14	ATP	5	801	-	-	X	-

2 Entry composition

There are 14 unique types of molecules in this entry. The entry contains 41018 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called DNA replication complex GINS protein PSF1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	208	Total	C	N	O	S	0	0
			1696	1065	290	331	10		

- Molecule 2 is a protein called DNA replication complex GINS protein PSF2.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	181	Total	C	N	O	S	0	0
			1513	978	261	270	4		

- Molecule 3 is a protein called DNA replication complex GINS protein PSF3.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C	159	Total	C	N	O	S	0	0
			1288	843	207	232	6		

- Molecule 4 is a protein called DNA replication complex GINS protein SLD5.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	D	221	Total	C	N	O	S	0	0
			1820	1159	300	348	13		

- Molecule 5 is a protein called Cell division control protein 45.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	E	553	Total	C	N	O	S	0	0
			4482	2862	763	844	13		

- Molecule 6 is a DNA chain called DNA (26-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
6	F	26	Total	C	N	O	P	0	0
			527	257	76	168	26		

- Molecule 7 is a DNA chain called DNA (5'-D(P*AP*TP*CP*GP*AP*TP*CP*GP*AP*TP*CP*GP*AP*T)-3').

Mol	Chain	Residues	Atoms					AltConf	Trace
7	G	14	Total	C	N	O	P	0	0
			287	137	52	84	14		

- Molecule 8 is a protein called DNA replication licensing factor MCM2.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	2	602	Total	C	N	O	S	0	0
			4707	2969	841	880	17		

- Molecule 9 is a protein called DNA replication licensing factor MCM3.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	3	591	Total	C	N	O	S	0	0
			4638	2925	828	872	13		

- Molecule 10 is a protein called DNA replication licensing factor MCM4.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	4	682	Total	C	N	O	S	0	0
			5410	3397	946	1039	28		

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
4	469	VAL	LYS	conflict	UNP P30665
4	470	SER	VAL	conflict	UNP P30665

- Molecule 11 is a protein called Minichromosome maintenance protein 5.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	5	597	Total	C	N	O	S	0	0
			4688	2946	808	910	24		

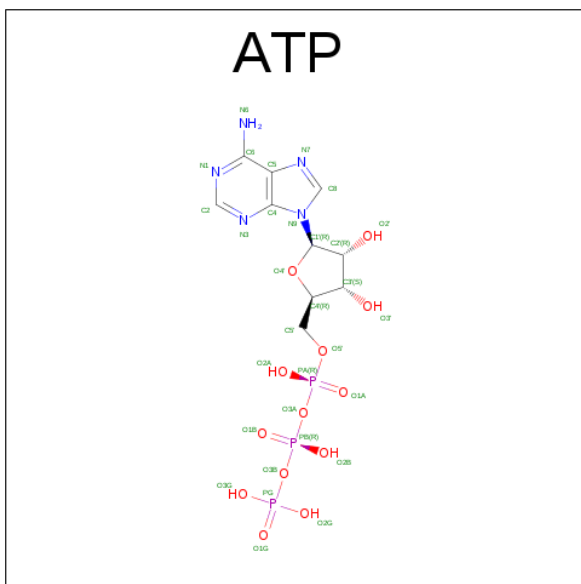
- Molecule 12 is a protein called DNA replication licensing factor MCM6.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	6	604	Total	C	N	O	S	0	0
			4649	2929	822	878	20		

- Molecule 13 is a protein called DNA replication licensing factor MCM7.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	7	663	Total	C	N	O	S	0	0
			5220	3290	904	996	30		

- Molecule 14 is ADENOSINE-5'-TRIPHOSPHATE (three-letter code: ATP) (formula: $\text{C}_{10}\text{H}_{16}\text{N}_5\text{O}_{13}\text{P}_3$).

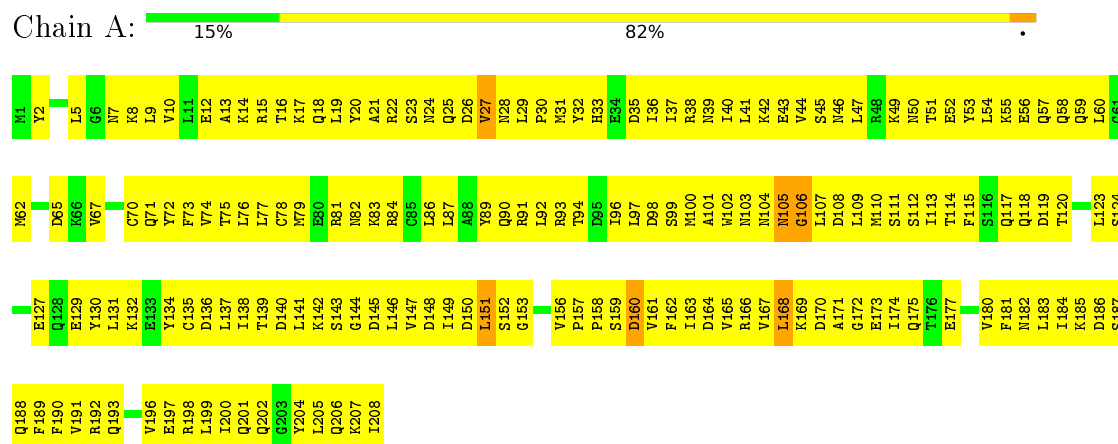


Mol	Chain	Residues	Atoms					AltConf
14	2	1	Total 31	C 10	N 5	O 13	P 3	0
14	3	1	Total 31	C 10	N 5	O 13	P 3	0
14	5	1	Total 31	C 10	N 5	O 13	P 3	0

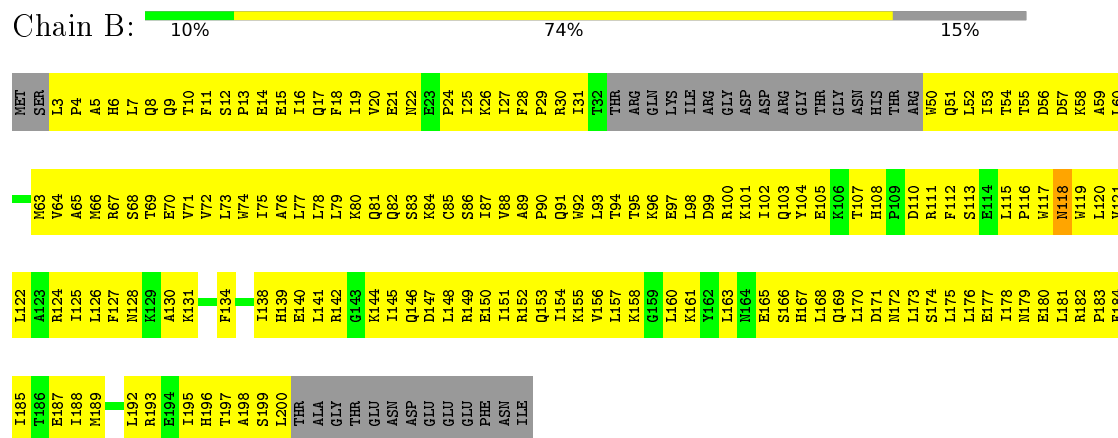
3 Residue-property plots

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

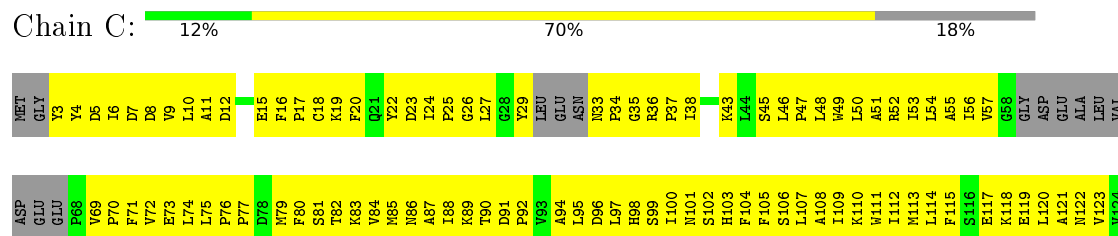
- Molecule 1: DNA replication complex GINS protein PSF1

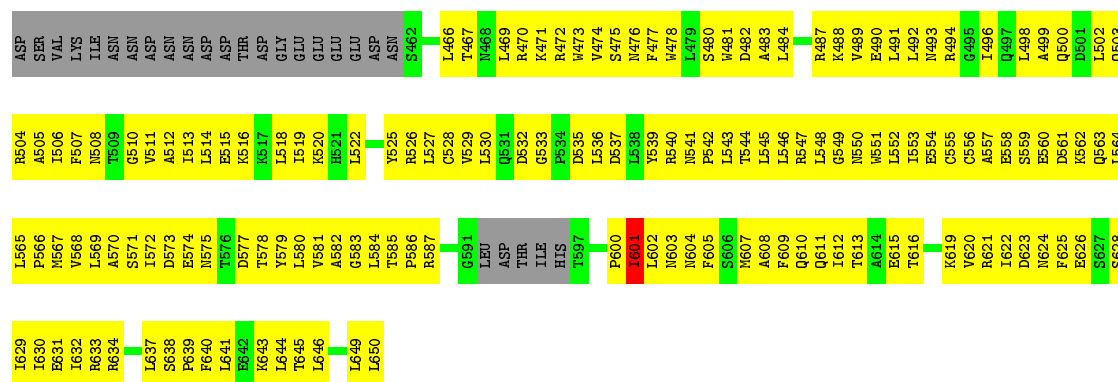


- Molecule 2: DNA replication complex GINS protein PSF2



- Molecule 3: DNA replication complex GINS protein PSF3





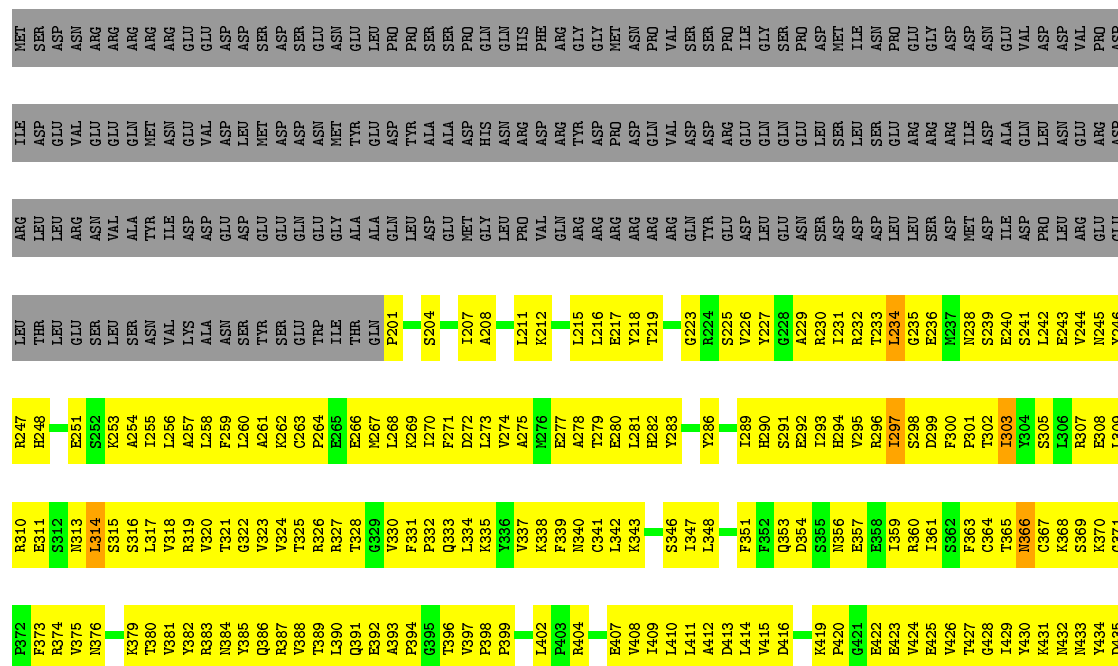
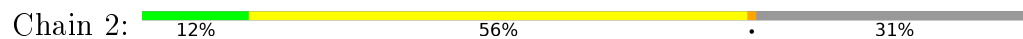
• Molecule 6: DNA (26-MER)

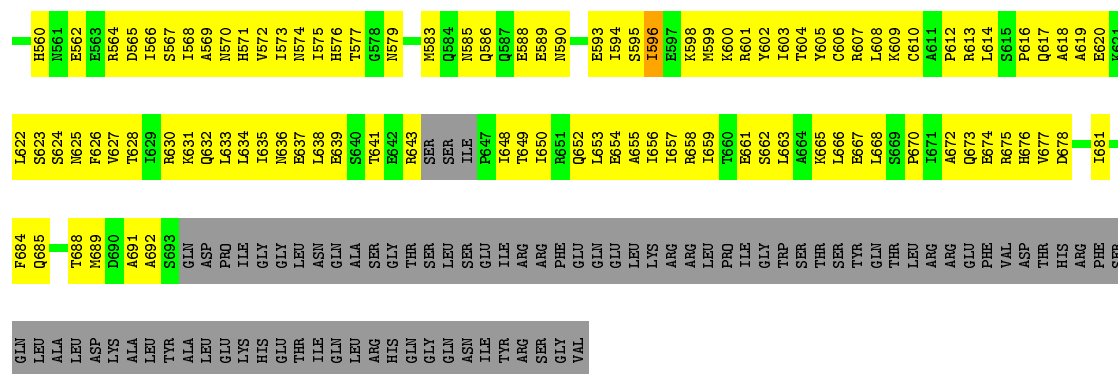


• Molecule 7: DNA (5'-D(P*AP*TP*CP*GP*AP*TP*CP*GP*AP*TP*CP*GP*AP*T)-3')



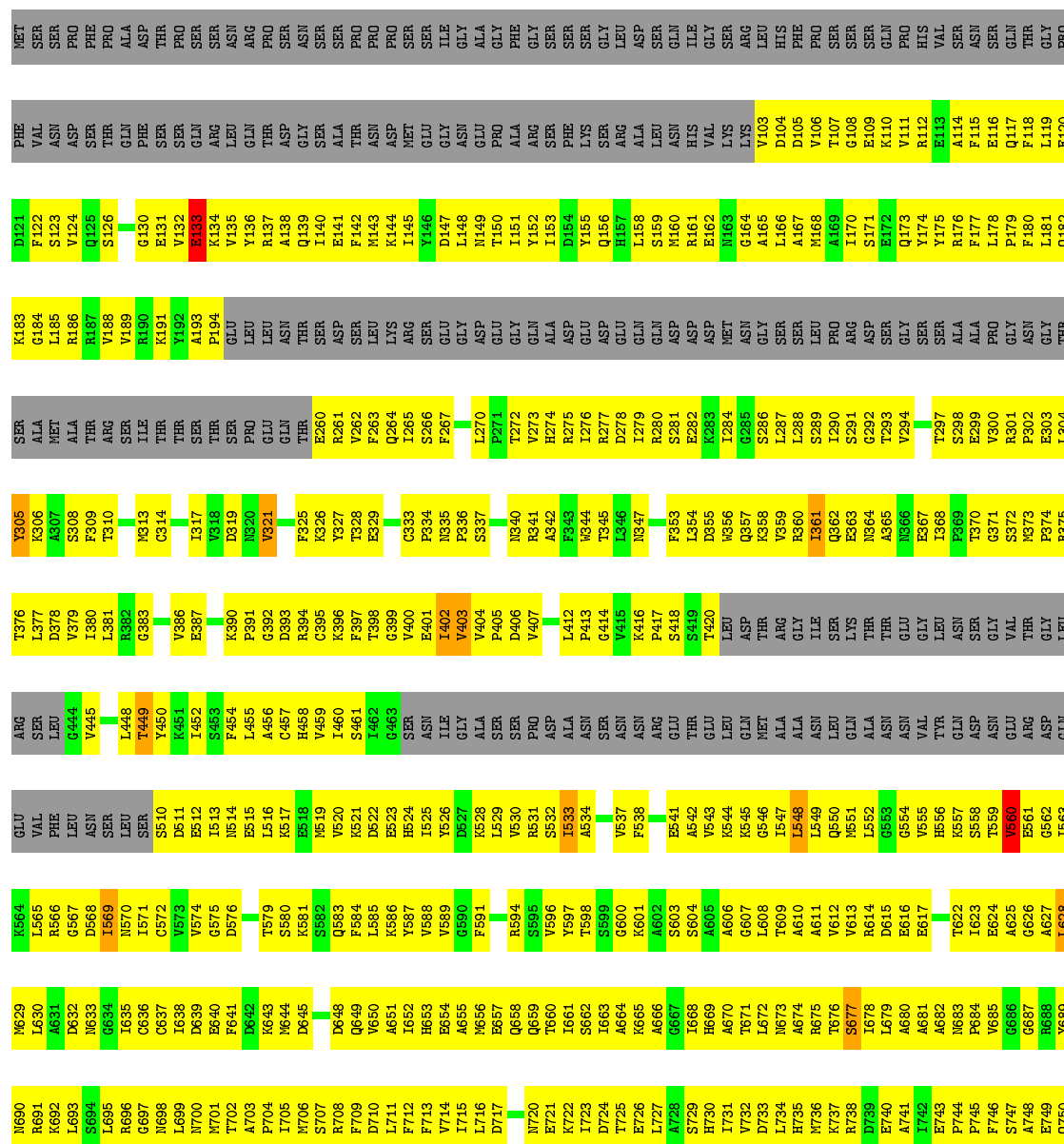
• Molecule 8: DNA replication licensing factor MCM2





• Molecule 12: DNA replication licensing factor MCM6

Chain 6: 12% 47% 41%



SER	ALA	ASN	VAL	SER	ALA	GLN	ASP	SER	ASP	ILE	ASP	LEU	GLN	ASP	ALA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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4 Experimental information

Property	Value	Source
Reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	Depositor
Number of particles used	243796	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	Not provided	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	Not provided	Depositor
Minimum defocus (nm)	Not provided	Depositor
Maximum defocus (nm)	Not provided	Depositor
Magnification	Not provided	Depositor
Image detector	Not provided	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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

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 >2	RMSZ	# Z >2
1	A	0.24	0/1718	0.51	1/2314 (0.0%)
10	4	0.25	0/5480	0.52	0/7395
11	5	0.24	0/4750	0.48	0/6412
12	6	0.24	0/4719	0.51	1/6373 (0.0%)
13	7	0.24	0/5299	0.51	1/7160 (0.0%)
2	B	0.23	0/1545	0.47	0/2092
3	C	0.23	0/1320	0.41	0/1784
4	D	0.24	0/1853	0.48	0/2500
5	E	0.23	0/4563	0.45	0/6173
6	F	0.48	0/585	0.99	0/901
7	G	0.51	0/321	0.90	0/493
8	2	0.24	0/4787	0.52	1/6469 (0.0%)
9	3	0.23	0/4717	0.49	0/6393
All	All	0.25	0/41657	0.51	4/56459 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
10	4	0	2
12	6	0	3
13	7	0	1
4	D	0	1
9	3	0	1
All	All	0	9

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	7	369	GLY	N-CA-C	7.97	133.04	113.10
1	A	106	GLY	N-CA-C	7.29	131.32	113.10
8	2	366	ASN	C-N-CA	6.50	137.94	121.70
12	6	628	LEU	CA-CB-CG	5.26	127.39	115.30

There are no chirality outliers.

All (9) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
9	3	428	LEU	Peptide
10	4	373	ARG	Peptide
10	4	408	ASP	Peptide
12	6	133	GLU	Peptide
12	6	333	CYS	Peptide
12	6	560	VAL	Peptide
13	7	486	LYS	Peptide
1	A	160	ASP	Peptide
4	D	258	VAL	Peptide

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1696	0	1698	437	0
2	B	1513	0	1558	354	0
3	C	1288	0	1298	283	0
4	D	1820	0	1824	452	0
5	E	4482	0	4499	910	0
6	F	527	0	303	50	0
7	G	287	0	159	16	0
8	2	4707	0	4721	1026	0
9	3	4638	0	4701	925	0
10	4	5410	0	5491	980	0
11	5	4688	0	4748	992	0
12	6	4649	0	4589	1048	0
13	7	5220	0	5296	901	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
14	2	31	0	12	12	0
14	3	31	0	12	5	0
14	5	31	0	12	12	0
All	All	41018	0	40921	7794	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 95.

All (7794) 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)
11:5:302:ASN:OD1	11:5:324:ARG:CZ	1.64	1.46
5:E:5:ILE:N	5:E:142:CYS:HG	1.30	1.26
13:7:94:LEU:HB2	13:7:95:GLN:HB2	1.21	1.19
13:7:680:SER:HB2	13:7:681:PHE:HA	1.22	1.19
11:5:303:SER:O	11:5:304:LYS:HG3	1.41	1.17
10:4:589:VAL:HG21	10:4:624:SER:HA	1.19	1.16
8:2:582:LYS:HA	8:2:583:ASP:HB2	1.20	1.15
13:7:504:ASP:HB3	13:7:505:GLU:HB3	1.25	1.15
2:B:170:LEU:HB2	4:D:274:ILE:HG13	1.19	1.15
5:E:392:PHE:HA	5:E:396:LEU:HD23	1.27	1.15
1:A:47:LEU:HD21	1:A:75:THR:HB	1.21	1.14
1:A:182:ASN:HB3	5:E:74:LEU:HD13	1.26	1.14
5:E:84:VAL:HA	5:E:123:LEU:HB2	1.26	1.13
5:E:92:LEU:HA	5:E:95:PHE:HB3	1.28	1.13
10:4:607:ARG:HA	10:4:614:LEU:HA	1.23	1.13
5:E:84:VAL:HG22	5:E:123:LEU:HD12	1.26	1.13
10:4:568:GLY:HA3	10:4:708:VAL:HB	1.31	1.12
12:6:558:SER:HB3	12:6:559:THR:HA	1.28	1.12
11:5:461:GLU:HG2	11:5:462:PHE:H	1.10	1.12
12:6:689:TYR:HA	12:6:690:ASN:HB2	1.28	1.12
13:7:575:ASN:HB3	13:7:578:LEU:HD13	1.31	1.11
4:D:256:TYR:HB2	4:D:257:THR:HG22	1.26	1.11
10:4:319:PRO:HB3	13:7:253:PRO:HB3	1.33	1.11
9:3:172:THR:HB	9:3:173:ALA:HA	1.22	1.11
9:3:566:LEU:HD22	11:5:619:ALA:HB1	1.32	1.11
5:E:293:PRO:HA	5:E:296:GLN:HB2	1.30	1.10
10:4:261:LEU:HA	10:4:268:VAL:HG21	1.31	1.10
8:2:621:HIS:HB2	8:2:673:ILE:HG13	1.33	1.10
10:4:661:ILE:HG21	12:6:392:GLY:HA3	1.21	1.10
8:2:581:ARG:HD3	8:2:634:ALA:HB2	1.26	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:794:ARG:HG3	8:2:805:ILE:HG21	1.25	1.09
9:3:437:SER:HB3	9:3:438:SER:HA	1.30	1.09
4:D:216:VAL:HG13	4:D:217:ASN:HA	1.16	1.09
8:2:212:LYS:HE3	8:2:274:VAL:HB	1.26	1.09
8:2:335:LYS:HD2	8:2:383:ARG:HH11	1.14	1.09
11:5:482:PHE:HB3	11:5:523:ALA:HB2	1.22	1.09
11:5:375:ALA:HB1	11:5:378:ILE:HB	1.12	1.09
9:3:486:ILE:HA	9:3:489:VAL:HB	1.32	1.09
9:3:314:LEU:HA	11:5:201:THR:HA	1.34	1.09
8:2:322:GLY:HA3	8:2:390:LEU:HD21	1.28	1.08
12:6:560:VAL:HB	12:6:561:GLU:HA	1.33	1.08
1:A:108:ASP:HB3	1:A:109:LEU:HB3	1.12	1.08
1:A:67:VAL:HG11	3:C:25:PRO:HD2	1.34	1.08
8:2:459:ARG:HA	8:2:460:GLU:HB2	1.14	1.08
9:3:119:ALA:HB1	9:3:222:THR:HG22	1.29	1.08
5:E:503:GLN:HA	5:E:506:ILE:HB	1.36	1.08
12:6:143:MET:HE1	12:6:148:LEU:HB2	1.28	1.07
10:4:370:ARG:HB2	10:4:371:CYS:HB2	1.35	1.07
12:6:106:VAL:HA	12:6:109:GLU:HB3	1.36	1.07
5:E:346:ALA:HB2	5:E:555:CYS:HA	1.33	1.07
12:6:133:GLU:HB3	12:6:134:LYS:HA	1.36	1.07
12:6:606:ALA:HB2	12:6:609:THR:HB	1.34	1.07
2:B:30:ARG:HD3	2:B:66:MET:HE1	1.29	1.07
12:6:656:MET:HB3	12:6:708:ARG:HG2	1.34	1.07
8:2:338:LYS:HE2	8:2:379:LYS:HB2	1.35	1.07
8:2:578:ALA:HB2	8:2:593:GLY:HA2	1.32	1.07
9:3:533:ILE:HG21	9:3:540:LEU:HD11	1.31	1.07
3:C:12:ASP:HA	3:C:48:LEU:HB3	1.32	1.07
12:6:662:SER:HB3	12:6:671:THR:HG22	1.37	1.06
10:4:578:LEU:HD21	10:4:672:LEU:HD22	1.36	1.06
1:A:100:MET:HG3	1:A:104:ASN:HD21	1.12	1.06
13:7:311:GLN:HB3	13:7:335:VAL:HB	1.36	1.06
8:2:777:LYS:H	8:2:828:PHE:HA	1.17	1.06
4:D:76:LEU:HD22	4:D:151:ILE:HD11	1.31	1.06
8:2:266:GLU:HA	8:2:269:LYS:HB3	1.34	1.06
4:D:230:ILE:HA	4:D:293:LEU:HA	1.32	1.06
9:3:386:MET:HB3	9:3:714:LYS:HD2	1.27	1.06
12:6:613:VAL:HB	12:6:622:THR:HB	1.35	1.06
13:7:434:LEU:HD21	13:7:699:LEU:HD23	1.38	1.05
2:B:163:LEU:HB3	2:B:189:MET:HE1	1.33	1.05
12:6:810:ILE:HD11	12:6:827:ALA:HB2	1.37	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:592:SER:HA	10:4:632:ASP:HB2	1.36	1.05
12:6:151:ILE:HD11	12:6:265:ILE:HG23	1.32	1.05
3:C:137:HIS:HA	11:5:55:LEU:HD13	1.38	1.05
8:2:813:ILE:HD12	8:2:841:VAL:HG21	1.37	1.04
5:E:25:CYS:HB3	5:E:26:GLN:HA	1.37	1.04
9:3:403:ILE:HD11	9:3:707:ARG:HB3	1.31	1.04
11:5:412:VAL:HB	11:5:520:LEU:HG	1.37	1.04
13:7:402:MET:HA	13:7:405:ILE:HB	1.39	1.04
8:2:388:VAL:HB	8:2:408:VAL:HB	1.38	1.04
8:2:502:ALA:HB3	8:2:512:LYS:HE2	1.40	1.04
8:2:268:LEU:HA	8:2:271:PHE:HB3	1.37	1.04
11:5:264:LEU:HB2	11:5:265:VAL:HG22	1.40	1.04
1:A:129:GLU:HA	1:A:132:LYS:HE3	1.39	1.04
8:2:423:GLU:HB2	8:2:459:ARG:HB2	1.36	1.04
11:5:75:ILE:HA	11:5:78:LYS:HB3	1.39	1.03
5:E:513:ILE:HG23	5:E:518:LEU:HD12	1.34	1.03
8:2:264:PRO:HG3	8:2:317:LEU:HB2	1.40	1.03
8:2:501:MET:HG2	8:2:512:LYS:HB3	1.40	1.03
9:3:201:HIS:HB2	9:3:210:HIS:HB2	1.34	1.03
12:6:588:VAL:HA	12:6:591:PHE:HB3	1.40	1.03
1:A:7:ASN:HA	1:A:10:VAL:HG12	1.40	1.03
8:2:593:GLY:HA3	8:2:597:VAL:HG21	1.39	1.03
12:6:695:LEU:HB3	12:6:838:VAL:HG13	1.36	1.03
5:E:31:VAL:HB	5:E:60:PRO:HA	1.36	1.02
11:5:302:ASN:OD1	11:5:324:ARG:NE	1.93	1.02
4:D:145:ARG:HA	4:D:148:LEU:HD12	1.41	1.02
9:3:441:GLY:HA3	9:3:462:MET:HB3	1.40	1.02
4:D:220:ASP:HB3	4:D:221:GLU:HG2	1.38	1.02
1:A:58:GLN:HA	1:A:62:MET:HB2	1.40	1.02
10:4:332:VAL:HB	10:4:429:ALA:HA	1.41	1.01
11:5:477:VAL:HB	11:5:519:VAL:HA	1.41	1.01
5:E:34:LEU:HD11	5:E:543:LEU:HD11	1.36	1.01
10:4:512:VAL:HG12	10:4:518:LEU:HD12	1.37	1.01
10:4:538:LYS:HD2	10:4:828:LEU:HD21	1.43	1.01
9:3:116:VAL:HG12	9:3:117:GLU:HG3	1.42	1.01
10:4:527:ALA:HB1	10:4:530:ILE:HD13	1.37	1.01
11:5:654:GLU:HA	11:5:657:ILE:HD12	1.42	1.01
9:3:156:SER:HB2	9:3:325:THR:HG22	1.38	1.01
4:D:216:VAL:CG1	4:D:217:ASN:HA	1.90	1.01
11:5:86:ILE:HG23	11:5:89:LEU:HD12	1.42	1.01
5:E:316:LEU:HD11	5:E:414:GLY:HA3	1.42	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:415:LEU:HD11	11:5:555:ILE:HG12	1.42	1.00
10:4:758:ILE:HD11	10:4:813:LEU:HD23	1.41	1.00
9:3:339:ARG:H	9:3:340:GLN:HB2	1.25	1.00
9:3:413:THR:HG23	9:3:549:VAL:HG11	1.41	1.00
2:B:59:ALA:HB1	2:B:60:LEU:HB2	1.43	1.00
5:E:47:LEU:HA	5:E:50:LYS:HD3	1.41	1.00
10:4:765:ALA:HB1	10:4:819:LEU:HD12	1.43	1.00
12:6:806:LEU:HB3	12:6:827:ALA:HB1	1.43	1.00
12:6:112:ARG:HH22	12:6:183:LYS:HB2	1.24	1.00
9:3:368:ALA:HB1	9:3:371:ILE:HB	1.38	1.00
8:2:630:SER:HB2	11:5:444:SER:HA	1.39	1.00
10:4:303:VAL:HG12	10:4:305:PRO:HD3	1.43	1.00
1:A:29:LEU:HD21	1:A:96:ILE:HG21	1.44	1.00
3:C:18:CYS:HB3	3:C:74:LEU:HA	1.44	0.99
9:3:339:ARG:HB2	9:3:340:GLN:HA	1.45	0.99
9:3:214:TYR:HE1	9:3:229:ALA:HB3	1.26	0.99
12:6:625:ALA:HB3	12:6:626:GLY:HA2	1.40	0.99
12:6:792:SER:HA	12:6:793:TYR:HB2	1.42	0.99
11:5:302:ASN:CG	11:5:324:ARG:HG2	1.83	0.99
12:6:819:ILE:HG22	12:6:820:THR:H	1.27	0.99
4:D:214:GLY:HA2	4:D:216:VAL:HA	1.41	0.99
1:A:169:LYS:H	1:A:185:LYS:HD3	1.28	0.98
8:2:813:ILE:HA	8:2:816:ILE:HD12	1.45	0.98
11:5:184:ARG:HB3	11:5:242:ILE:HD11	1.44	0.98
13:7:273:VAL:HG13	13:7:278:PHE:HB3	1.42	0.98
13:7:436:LEU:HD21	13:7:473:ILE:HG23	1.45	0.98
11:5:449:LEU:HD21	11:5:493:ILE:HD11	1.45	0.98
13:7:599:LEU:HD11	13:7:726:SER:HB3	1.44	0.98
11:5:292:VAL:HG23	11:5:294:ILE:HD11	1.43	0.98
3:C:112:ILE:HD11	3:C:121:ALA:HB2	1.45	0.98
12:6:288:LEU:H	12:6:399:GLY:HA3	1.28	0.97
12:6:706:MET:HA	12:6:712:PHE:HZ	1.29	0.97
1:A:71:GLN:HA	1:A:74:VAL:HB	1.46	0.97
3:C:20:PHE:HE1	3:C:46:LEU:HD11	1.25	0.97
11:5:382:GLU:HA	11:5:385:LYS:HB3	1.43	0.97
10:4:419:VAL:HA	10:4:463:VAL:HG21	1.42	0.97
5:E:8:PHE:HB3	5:E:258:LEU:HD12	1.47	0.97
8:2:231:ILE:HG23	8:2:279:THR:HG23	1.43	0.97
5:E:345:ASN:HA	5:E:350:LEU:HG	1.43	0.97
8:2:339:PHE:HB2	8:2:348:LEU:HD23	1.43	0.97
8:2:582:LYS:HZ1	8:2:591:LEU:HD12	1.26	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:123:LEU:HD21	1:A:127:GLU:HB2	1.44	0.97
6:F:18:DT:H4'	9:3:448:THR:HG21	1.45	0.97
10:4:824:GLU:HA	10:4:827:ARG:HB3	1.45	0.97
3:C:27:LEU:HD23	3:C:29:TYR:H	1.28	0.97
13:7:513:LEU:HD13	13:7:540:VAL:HG21	1.45	0.97
1:A:108:ASP:HB3	1:A:109:LEU:CB	1.93	0.97
10:4:798:LEU:HA	10:4:801:MET:HE3	1.47	0.96
11:5:276:MET:HB3	11:5:330:ILE:HD11	1.46	0.96
5:E:577:ASP:HB2	5:E:633:ARG:HE	1.30	0.96
8:2:488:SER:HB2	8:2:825:LEU:HD13	1.44	0.96
8:2:332:PRO:HG3	11:5:300:ILE:HD12	1.46	0.96
13:7:251:VAL:HB	13:7:311:GLN:HB2	1.48	0.96
8:2:574:VAL:HG23	8:2:575:GLY:H	1.27	0.96
12:6:525:ILE:HA	12:6:528:LYS:HB2	1.47	0.96
13:7:670:ASP:HA	13:7:673:ARG:HG2	1.46	0.96
8:2:617:ARG:HG3	8:2:620:ILE:HD12	1.46	0.96
9:3:159:GLY:HA2	9:3:160:SER:HB2	1.46	0.96
4:D:230:ILE:HG22	4:D:293:LEU:HG	1.47	0.96
5:E:29:ILE:HD11	5:E:58:ILE:HG23	1.46	0.96
12:6:695:LEU:HD13	12:6:838:VAL:HG22	1.47	0.96
13:7:357:PRO:HA	13:7:374:THR:HA	1.45	0.95
12:6:662:SER:HA	12:6:671:THR:HA	1.48	0.95
10:4:377:ASN:CB	10:4:378:GLU:HA	1.96	0.95
13:7:543:GLN:HG3	13:7:544:GLN:H	1.29	0.95
13:7:94:LEU:CB	13:7:95:GLN:HB2	1.96	0.95
1:A:147:VAL:HG21	1:A:149:ILE:HD12	1.45	0.95
3:C:27:LEU:HG	3:C:38:ILE:HD11	1.47	0.95
5:E:73:GLN:HG2	5:E:74:LEU:HG	1.49	0.95
11:5:414:LEU:HD13	11:5:422:LYS:HB2	1.46	0.95
2:B:12:SER:HB3	2:B:15:GLU:HG3	1.49	0.95
12:6:552:LEU:HD11	12:6:755:ILE:HG23	1.46	0.95
13:7:520:ILE:HA	13:7:562:SER:HB2	1.46	0.95
10:4:714:GLU:H	10:4:715:LYS:HB3	1.31	0.95
10:4:461:VAL:HG12	10:4:463:VAL:H	1.30	0.94
9:3:519:VAL:HG22	9:3:534:ALA:HB2	1.49	0.94
10:4:289:LEU:HD22	10:4:293:LEU:HD23	1.49	0.94
3:C:137:HIS:HB3	11:5:55:LEU:HB3	1.46	0.94
11:5:302:ASN:OD1	11:5:324:ARG:NH1	2.00	0.94
13:7:581:LEU:HB2	13:7:681:PHE:HE1	1.33	0.94
13:7:459:MET:HE1	13:7:584:ILE:HG23	1.49	0.94
4:D:200:LYS:HB2	4:D:201:TYR:HB2	1.48	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:172:THR:HB	9:3:173:ALA:CA	1.97	0.94
10:4:434:GLU:HB3	10:4:467:LYS:HB3	1.46	0.94
13:7:493:LEU:HD13	13:7:513:LEU:HD12	1.48	0.94
8:2:798:ILE:HD13	11:5:560:HIS:HB2	1.47	0.94
12:6:158:LEU:HD13	12:6:170:ILE:HD11	1.50	0.94
9:3:158:LYS:HA	9:3:327:TYR:HE2	1.31	0.93
8:2:794:ARG:HG2	8:2:798:ILE:HD11	1.45	0.93
2:B:170:LEU:HD11	4:D:276:VAL:HG23	1.49	0.93
9:3:425:THR:HG22	9:3:657:ARG:HH11	1.29	0.93
13:7:459:MET:HB3	13:7:597:LEU:HD21	1.51	0.93
5:E:292:TYR:HB2	5:E:293:PRO:HD3	1.50	0.93
8:2:319:ARG:HA	8:2:427:THR:HA	1.51	0.93
10:4:565:LEU:HD21	10:4:675:ALA:HB2	1.50	0.93
12:6:632:ASP:HA	12:6:676:THR:HG22	1.49	0.93
8:2:579:SER:HA	8:2:633:LYS:HD2	1.49	0.93
12:6:355:ASP:HB3	12:6:356:TRP:HA	1.49	0.93
13:7:586:LEU:HB3	13:7:590:LEU:HD22	1.48	0.93
1:A:168:LEU:HD11	1:A:206:GLN:HB2	1.50	0.93
8:2:520:PHE:HE2	8:2:822:LYS:HB2	1.32	0.93
8:2:803:PHE:HB2	8:2:805:ILE:H	1.34	0.93
9:3:356:LYS:HB2	9:3:359:ILE:HG23	1.48	0.93
12:6:711:LEU:HD23	12:6:834:SER:HB3	1.51	0.93
12:6:175:TYR:HA	12:6:178:LEU:HD13	1.49	0.93
10:4:234:ARG:HB3	10:4:280:MET:HE1	1.51	0.92
8:2:207:ILE:HG22	8:2:211:LEU:HD23	1.49	0.92
1:A:149:ILE:HA	1:A:150:ASP:HB2	1.49	0.92
10:4:629:CYS:HB3	10:4:671:ILE:HG12	1.51	0.92
12:6:552:LEU:HG	12:6:759:ARG:HD2	1.51	0.92
12:6:795:ILE:HG22	12:6:799:GLN:HG3	1.52	0.92
12:6:802:SER:HA	12:6:805:ARG:HG2	1.52	0.92
5:E:308:ASN:HA	5:E:309:SER:HB2	1.50	0.92
10:4:342:MET:HB3	10:4:360:ILE:HG12	1.51	0.92
1:A:46:ASN:HA	1:A:49:LYS:HE3	1.48	0.92
1:A:16:THR:HA	1:A:19:LEU:HB2	1.50	0.92
5:E:559:SER:HA	5:E:560:GLU:HB3	1.50	0.92
1:A:108:ASP:CB	1:A:109:LEU:HB3	1.99	0.92
10:4:714:GLU:N	10:4:715:LYS:HB3	1.83	0.92
9:3:194:PRO:HG3	13:7:374:THR:HG22	1.52	0.92
5:E:140:ILE:HA	5:E:141:GLN:HB3	1.50	0.92
9:3:192:VAL:HG22	9:3:254:GLN:HB2	1.51	0.92
10:4:333:LEU:HD11	10:4:400:GLN:HB2	1.50	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:585:ILE:N	8:2:587:LYS:O	2.03	0.91
9:3:129:LEU:HD22	9:3:153:TRP:HB3	1.51	0.91
9:3:254:GLN:HB3	9:3:278:LEU:HB2	1.50	0.91
5:E:64:TYR:HB2	5:E:625:PHE:HA	1.52	0.91
9:3:673:GLN:HA	9:3:676:ILE:HD13	1.52	0.91
5:E:381:ASP:HB2	5:E:384:ILE:HG13	1.50	0.91
9:3:300:SER:HA	9:3:319:THR:HG22	1.51	0.91
10:4:589:VAL:CG2	10:4:624:SER:HA	2.01	0.91
10:4:530:ILE:HG21	10:4:533:LEU:HD11	1.49	0.91
8:2:705:ARG:HB2	12:6:559:THR:HB	1.49	0.91
9:3:100:LEU:HG	9:3:157:PHE:HB3	1.52	0.91
4:D:195:ASN:HA	4:D:199:LEU:HD12	1.51	0.91
13:7:458:LEU:HD13	13:7:600:MET:HE1	1.49	0.91
5:E:151:THR:HA	5:E:152:LEU:HB3	1.53	0.91
5:E:287:VAL:HG13	5:E:290:ARG:HH11	1.35	0.91
11:5:303:SER:O	11:5:304:LYS:CG	2.18	0.91
12:6:357:GLN:HG2	12:6:386:VAL:HG23	1.53	0.91
5:E:149:ASP:N	5:E:150:ASP:HA	1.83	0.91
8:2:523:VAL:HG12	8:2:525:LYS:HB3	1.52	0.90
10:4:512:VAL:HG22	10:4:515:ARG:HH12	1.33	0.90
1:A:168:LEU:HD21	1:A:206:GLN:HB2	1.52	0.90
5:E:5:ILE:N	5:E:142:CYS:SG	2.44	0.90
5:E:360:HIS:HA	5:E:363:PHE:HD2	1.33	0.90
10:4:435:VAL:HG22	10:4:466:VAL:HA	1.52	0.90
11:5:450:THR:HG23	11:5:489:ASP:HB2	1.51	0.90
9:3:233:THR:HG22	9:3:234:GLU:HG2	1.52	0.90
11:5:354:GLU:HG2	11:5:605:TYR:HE1	1.36	0.90
5:E:43:LYS:HA	5:E:46:SER:HB3	1.53	0.90
6:F:16:DT:H2''	6:F:17:DT:H5'	1.52	0.90
11:5:413:LEU:HB2	11:5:553:ILE:HG23	1.54	0.90
12:6:660:THR:HB	12:6:673:ASN:HA	1.54	0.90
12:6:811:ALA:HB2	12:6:819:ILE:HG13	1.53	0.90
8:2:562:ARG:HH11	8:2:599:ALA:HA	1.35	0.90
9:3:103:LEU:HB2	9:3:111:TRP:HE3	1.34	0.90
13:7:127:LEU:HG	13:7:128:PRO:HD3	1.50	0.90
13:7:318:LEU:HD22	13:7:320:GLN:HG2	1.52	0.90
4:D:170:SER:HB3	4:D:175:LEU:HD13	1.53	0.90
5:E:28:VAL:HG22	5:E:57:GLN:HB3	1.51	0.90
8:2:508:HIS:HB2	8:2:511:ILE:HG22	1.53	0.90
13:7:443:ARG:HG3	13:7:449:LYS:HE3	1.54	0.90
1:A:22:ARG:HB3	1:A:23:SER:HA	1.54	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:36:ILE:HG23	5:E:39:LEU:HD12	1.50	0.90
6:F:16:DT:H2'	6:F:17:DT:C5'	2.01	0.90
10:4:543:GLN:HA	10:4:562:ILE:HD11	1.54	0.90
13:7:14:TYR:HA	13:7:17:LEU:HB2	1.53	0.90
8:2:496:LYS:HA	8:2:499:SER:HB3	1.52	0.89
9:3:347:ILE:HA	9:3:350:ILE:HD13	1.54	0.89
10:4:192:THR:HG22	10:4:195:ARG:HH21	1.37	0.89
11:5:633:LEU:HB2	11:5:648:ILE:HD11	1.53	0.89
13:7:581:LEU:HB2	13:7:681:PHE:CE1	2.07	0.89
4:D:256:TYR:HB2	4:D:257:THR:CG2	2.03	0.89
8:2:323:VAL:HG23	8:2:393:ALA:HA	1.54	0.89
11:5:678:ASP:HA	11:5:681:ILE:HD13	1.52	0.89
12:6:689:TYR:HA	12:6:690:ASN:CB	2.01	0.89
5:E:360:HIS:HB2	8:2:236:GLU:HG2	1.54	0.89
12:6:551:MET:HA	12:6:635:ILE:HD11	1.54	0.89
1:A:109:LEU:HG	1:A:111:SER:HB3	1.52	0.89
8:2:639:THR:HA	11:5:445:SER:HB3	1.55	0.89
8:2:541:LEU:HD22	8:2:649:ALA:HB1	1.55	0.89
12:6:561:GLU:N	12:6:562:GLY:HA3	1.87	0.89
4:D:191:LEU:HA	4:D:194:VAL:HG12	1.53	0.89
11:5:349:PHE:HB3	11:5:601:ARG:HH21	1.37	0.88
8:2:604:CYS:HB3	8:2:646:ILE:HA	1.55	0.88
11:5:88:PRO:HD3	11:5:196:ASN:HD22	1.38	0.88
11:5:209:ARG:HG2	11:5:239:ASP:HB3	1.55	0.88
5:E:380:MET:HB2	5:E:385:LYS:HE2	1.54	0.88
10:4:794:THR:HG22	10:4:797:GLN:HG2	1.55	0.88
13:7:17:LEU:HD23	13:7:102:LEU:HD23	1.56	0.88
2:B:28:PHE:HB2	2:B:86:SER:HB2	1.55	0.88
8:2:778:LEU:HA	8:2:829:VAL:HB	1.55	0.88
9:3:23:ASP:O	9:3:27:ARG:N	2.07	0.88
13:7:251:VAL:HG21	13:7:340:VAL:HG21	1.52	0.88
10:4:661:ILE:HG21	12:6:392:GLY:CA	2.04	0.88
12:6:706:MET:HG3	12:6:712:PHE:HE2	1.39	0.88
1:A:190:PHE:HD2	5:E:55:GLN:HA	1.38	0.88
8:2:542:LEU:HD23	8:2:682:VAL:HG13	1.54	0.88
9:3:163:ALA:HB3	9:3:164:HIS:HB2	1.54	0.88
9:3:394:GLU:O	9:3:395:ASN:ND2	2.07	0.88
10:4:419:VAL:CA	10:4:463:VAL:HG21	2.02	0.88
5:E:227:LYS:HD3	5:E:230:ILE:HD12	1.56	0.88
11:5:369:ILE:HD11	11:5:593:GLU:HA	1.54	0.87
13:7:660:VAL:HG12	13:7:689:LEU:HD11	1.54	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:481:GLU:HA	8:2:484:PHE:HB3	1.54	0.87
10:4:566:LEU:HD23	10:4:672:LEU:HD21	1.54	0.87
11:5:440:SER:HA	11:5:480:ASP:HB2	1.55	0.87
11:5:69:ILE:HD11	11:5:73:GLU:HG2	1.54	0.87
2:B:51:GLN:H	2:B:52:LEU:HA	1.35	0.87
13:7:193:PRO:HG2	13:7:196:LEU:HB2	1.55	0.87
8:2:498:ILE:HG21	8:2:509:ARG:HG3	1.53	0.87
9:3:463:VAL:HG22	9:3:495:VAL:HG21	1.55	0.87
9:3:410:ASP:HB2	9:3:551:ASP:HB2	1.57	0.87
10:4:593:GLY:HA3	10:4:633:GLU:HB2	1.56	0.87
10:4:604:TYR:HB2	10:4:617:GLU:HB2	1.56	0.87
12:6:794:ARG:H	12:6:795:ILE:HA	1.38	0.87
2:B:11:PHE:HA	4:D:71:ARG:HH12	1.37	0.87
5:E:545:LEU:HA	5:E:548:LEU:HB3	1.55	0.87
8:2:246:TYR:H	8:2:298:SER:HB2	1.39	0.87
12:6:305:TYR:CE2	12:6:354:LEU:HG	2.09	0.87
13:7:362:GLY:HA2	13:7:363:PHE:HB2	1.54	0.87
5:E:150:ASP:H	5:E:152:LEU:HB3	1.37	0.87
8:2:317:LEU:HA	8:2:429:ILE:HG22	1.55	0.87
9:3:257:THR:HA	9:3:275:ASP:HA	1.54	0.87
10:4:291:TYR:HB2	10:4:296:ILE:HG12	1.56	0.87
10:4:557:ARG:HH22	10:4:652:GLN:HB3	1.40	0.87
11:5:181:ILE:HG22	11:5:241:TYR:HB3	1.54	0.87
2:B:185:ILE:HA	2:B:188:ILE:HD12	1.57	0.87
9:3:104:ARG:HG2	9:3:108:ARG:HH21	1.39	0.87
10:4:456:LEU:HD12	13:7:254:ALA:HB2	1.54	0.87
13:7:668:ARG:HH22	13:7:685:THR:HA	1.39	0.87
8:2:301:PRO:HB3	8:2:303:ILE:HG12	1.57	0.87
9:3:437:SER:HB3	9:3:438:SER:CA	2.03	0.87
13:7:435:LEU:HD13	13:7:454:ILE:HB	1.53	0.87
12:6:767:LYS:HZ1	12:6:820:THR:HA	1.39	0.86
13:7:208:SER:N	13:7:209:GLN:HB2	1.89	0.86
6:F:21:DT:H5"	11:5:506:LYS:HD3	1.57	0.86
8:2:684:ARG:HB3	8:2:685:ASP:HA	1.55	0.86
11:5:491:VAL:HA	11:5:494:HIS:HD2	1.40	0.86
12:6:537:VAL:HG22	12:6:583:GLN:HB3	1.57	0.86
12:6:653:HIS:HB2	12:6:705:ILE:HG22	1.57	0.86
9:3:98:ILE:HG13	9:3:155:LEU:HD22	1.57	0.86
12:6:806:LEU:HD11	12:6:831:LEU:HD21	1.57	0.86
8:2:430:TYR:HA	8:2:451:ILE:HG12	1.56	0.86
11:5:320:GLY:H	11:5:323:ILE:HB	1.38	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:631:ILE:N	11:5:445:SER:O	2.06	0.86
4:D:256:TYR:HD1	4:D:257:THR:HG23	1.40	0.86
5:E:405:ILE:H	5:E:405:ILE:HD12	1.40	0.86
11:5:369:ILE:HG23	11:5:594:ILE:HD11	1.57	0.86
13:7:208:SER:H	13:7:209:GLN:HB2	1.40	0.86
4:D:123:LYS:HG3	4:D:126:LEU:HD13	1.58	0.86
5:E:376:THR:HG22	5:E:378:LEU:H	1.40	0.86
8:2:446:VAL:HG11	12:6:301:ARG:HB3	1.54	0.86
8:2:459:ARG:HA	8:2:460:GLU:CB	2.01	0.86
9:3:98:ILE:HD12	9:3:155:LEU:HD13	1.56	0.86
10:4:281:VAL:HG22	10:4:297:GLU:HG2	1.56	0.86
10:4:607:ARG:HB2	10:4:614:LEU:HD23	1.57	0.86
10:4:683:ASN:HD21	10:4:686:LEU:HD22	1.40	0.86
8:2:635:GLY:HA3	11:5:465:GLU:HG2	1.55	0.86
11:5:618:ALA:HB1	11:5:677:VAL:HG21	1.58	0.86
11:5:294:ILE:HG23	11:5:333:ILE:HB	1.58	0.85
11:5:375:ALA:CB	11:5:378:ILE:HB	2.04	0.85
11:5:461:GLU:HG2	11:5:462:PHE:N	1.91	0.85
1:A:147:VAL:H	1:A:148:ASP:HA	1.39	0.85
1:A:29:LEU:HD11	1:A:96:ILE:HG12	1.59	0.85
8:2:582:LYS:NZ	8:2:591:LEU:HD12	1.91	0.85
9:3:203:ALA:HB2	9:3:210:HIS:NE2	1.91	0.85
10:4:713:ASP:HB2	10:4:716:ASN:HB2	1.55	0.85
13:7:118:CYS:SG	13:7:198:ARG:NH2	2.48	0.85
13:7:680:SER:CB	13:7:681:PHE:HA	2.05	0.85
11:5:181:ILE:CG2	11:5:241:TYR:HB3	2.05	0.85
12:6:533:ILE:HG12	12:6:548:LEU:HD11	1.56	0.85
12:6:660:THR:HA	12:6:674:ALA:H	1.41	0.85
8:2:494:ILE:HA	8:2:497:ILE:HD12	1.57	0.85
10:4:752:SER:HA	10:4:755:LYS:HD3	1.59	0.85
11:5:482:PHE:CB	11:5:523:ALA:HB2	2.05	0.85
13:7:139:LEU:O	13:7:142:ILE:N	2.09	0.85
11:5:413:LEU:HD13	11:5:553:ILE:HG13	1.59	0.85
9:3:24:ARG:HH12	9:3:120:TYR:HB3	1.41	0.85
10:4:770:LEU:HD11	10:4:801:MET:HB3	1.59	0.85
3:C:86:ASN:O	9:3:104:ARG:NH1	2.10	0.85
10:4:419:VAL:HA	10:4:463:VAL:CG2	2.05	0.85
11:5:148:LEU:HD11	11:5:274:LEU:HD12	1.59	0.85
12:6:727:LEU:HD22	12:6:731:ILE:HD11	1.59	0.85
12:6:554:GLY:HA2	12:6:808:GLU:HB3	1.58	0.85
13:7:349:VAL:HG21	13:7:381:VAL:HG13	1.58	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:393:LEU:HB2	13:7:395:SER:N	1.91	0.85
9:3:191:LEU:HD21	13:7:329:ARG:HH12	1.41	0.84
13:7:537:ILE:HA	13:7:540:VAL:HB	1.59	0.84
13:7:584:ILE:HD13	13:7:591:LEU:HD21	1.56	0.84
8:2:430:TYR:HD1	8:2:451:ILE:HD11	1.40	0.84
8:2:582:LYS:HA	8:2:583:ASP:CB	2.01	0.84
12:6:560:VAL:HB	12:6:561:GLU:CA	2.06	0.84
13:7:208:SER:HA	13:7:222:SER:HB3	1.60	0.84
8:2:785:LYS:HG3	8:2:788:ARG:HH21	1.42	0.84
11:5:39:ARG:HA	11:5:44:PHE:HB3	1.59	0.84
1:A:145:ASP:HA	1:A:146:LEU:HB3	1.60	0.84
8:2:544:ASP:HB2	8:2:683:VAL:HG23	1.58	0.84
13:7:393:LEU:HA	13:7:394:THR:HB	1.57	0.84
5:E:244:GLY:HA3	5:E:602:LEU:HB3	1.60	0.84
5:E:30:PHE:HE2	5:E:81:LEU:HD11	1.41	0.84
10:4:585:THR:HG21	10:4:628:VAL:H	1.42	0.84
12:6:356:TRP:HZ3	12:6:358:LYS:HB2	1.40	0.84
13:7:367:LYS:HA	13:7:368:ALA:HB3	1.57	0.84
13:7:540:VAL:HG12	13:7:563:ILE:HD11	1.59	0.84
4:D:98:ILE:HG21	4:D:129:MET:HG2	1.58	0.84
5:E:413:LEU:HG	5:E:416:ARG:HB2	1.60	0.84
5:E:85:GLY:N	5:E:123:LEU:O	2.11	0.84
9:3:158:LYS:HA	9:3:327:TYR:CE2	2.13	0.84
1:A:100:MET:HG3	1:A:104:ASN:ND2	1.93	0.84
1:A:173:GLU:HA	1:A:183:LEU:HD23	1.60	0.84
5:E:344:VAL:HG13	5:E:348:LEU:HD12	1.60	0.84
5:E:36:ILE:HA	5:E:39:LEU:HG	1.59	0.84
5:E:561:ASP:HB3	5:E:562:LYS:HG2	1.59	0.84
11:5:69:ILE:HD12	11:5:73:GLU:HA	1.56	0.84
12:6:614:ARG:CG	12:6:615:ASP:HA	2.08	0.84
13:7:271:GLN:HE22	13:7:280:PRO:HA	1.42	0.84
10:4:306:TYR:HB3	10:4:465:HIS:CD2	2.13	0.84
13:7:493:LEU:HA	13:7:512:ALA:HB3	1.59	0.84
10:4:626:GLY:N	10:4:669:SER:HB3	1.94	0.83
12:6:585:LEU:HD22	12:6:637:CYS:HB2	1.60	0.83
4:D:200:LYS:HB2	4:D:201:TYR:CB	2.08	0.83
4:D:269:LEU:HD13	4:D:275:TYR:HD2	1.43	0.83
5:E:120:ILE:HB	5:E:139:ILE:HB	1.60	0.83
10:4:521:LEU:HD11	10:4:741:VAL:HB	1.60	0.83
12:6:763:PRO:HB3	12:6:817:ASP:HA	1.60	0.83
8:2:624:MET:HG2	8:2:646:ILE:HD12	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:367:LEU:HD21	9:3:382:LEU:HD11	1.59	0.83
12:6:558:SER:CB	12:6:559:THR:HA	1.99	0.83
1:A:78:CYS:HA	1:A:81:ARG:HB3	1.61	0.83
8:2:459:ARG:CA	8:2:460:GLU:HB2	2.04	0.83
11:5:148:LEU:HG	11:5:272:ARG:HD2	1.58	0.83
4:D:216:VAL:CG2	4:D:219:ILE:HG13	2.08	0.83
8:2:539:VAL:HB	8:2:647:ILE:HA	1.59	0.83
8:2:797:SER:HB2	8:2:845:PHE:CE2	2.13	0.83
9:3:95:ARG:HB2	9:3:154:LYS:HB2	1.59	0.83
11:5:165:ILE:HD12	11:5:261:ILE:HA	1.60	0.83
13:7:584:ILE:HG22	13:7:586:LEU:H	1.43	0.83
4:D:200:LYS:CB	4:D:201:TYR:HB2	2.08	0.83
8:2:603:VAL:HG22	8:2:645:SER:HB2	1.61	0.83
9:3:292:VAL:HG22	9:3:328:PRO:HA	1.60	0.83
1:A:173:GLU:HB3	1:A:183:LEU:H	1.42	0.83
10:4:327:ASN:HA	10:4:436:THR:HG22	1.58	0.83
11:5:453:VAL:HG21	11:5:506:LYS:HB2	1.60	0.83
12:6:396:LYS:HB3	12:6:460:ILE:HG22	1.59	0.83
12:6:793:TYR:O	12:6:794:ARG:NH1	2.11	0.83
1:A:165:VAL:HG11	1:A:205:LEU:HB3	1.61	0.83
2:B:120:LEU:HD12	2:B:176:LEU:HB3	1.59	0.83
9:3:367:LEU:HD12	9:3:378:LYS:HB3	1.61	0.83
11:5:482:PHE:HB3	11:5:523:ALA:CB	2.08	0.83
12:6:362:GLN:HA	12:6:376:THR:HG22	1.60	0.83
1:A:110:MET:N	1:A:111:SER:HA	1.92	0.83
2:B:170:LEU:HB2	4:D:274:ILE:CG1	2.06	0.83
10:4:249:LEU:HD12	10:4:250:ALA:HA	1.61	0.83
10:4:633:GLU:HB3	10:4:636:LYS:HB3	1.60	0.83
13:7:446:ASP:N	13:7:447:GLY:HA2	1.92	0.83
13:7:523:ILE:HB	13:7:565:ALA:HB2	1.61	0.83
3:C:55:ALA:HB1	3:C:70:PRO:HB2	1.61	0.83
3:C:18:CYS:CB	3:C:74:LEU:HA	2.09	0.83
4:D:216:VAL:HG13	4:D:217:ASN:CA	2.03	0.83
12:6:640:GLU:HB3	12:6:643:LYS:HG2	1.60	0.82
10:4:395:GLN:HB2	10:4:424:VAL:HG13	1.58	0.82
12:6:517:LYS:HA	12:6:520:VAL:HG22	1.59	0.82
12:6:640:GLU:HA	12:6:682:ALA:HA	1.61	0.82
12:6:532:SER:HA	12:6:744:PRO:HB2	1.60	0.82
2:B:113:SER:O	2:B:172:ASN:ND2	2.12	0.82
8:2:621:HIS:HD2	8:2:673:ILE:HA	1.45	0.82
9:3:445:ALA:HA	9:3:457:LEU:CD2	2.09	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:568:ILE:HD12	11:5:571:HIS:HB3	1.59	0.82
12:6:297:THR:HA	12:6:359:VAL:HG12	1.60	0.82
4:D:286:LEU:HD21	4:D:293:LEU:HD21	1.60	0.82
8:2:542:LEU:N	8:2:681:CYS:O	2.12	0.82
13:7:444:VAL:HG21	13:7:448:MET:HG2	1.61	0.82
8:2:428:GLY:HA2	8:2:453:ALA:HA	1.60	0.82
8:2:795:ARG:HA	8:2:798:ILE:HD12	1.60	0.82
1:A:97:LEU:HD13	1:A:123:LEU:HD11	1.61	0.82
8:2:560:ALA:HB3	8:2:563:ALA:HB2	1.59	0.82
9:3:695:SER:HB3	9:3:696:PRO:HA	1.62	0.82
13:7:238:LEU:HB2	13:7:354:ILE:HG22	1.60	0.82
1:A:18:GLN:HA	1:A:21:ALA:HB2	1.62	0.82
5:E:285:ALA:HB1	5:E:288:TYR:HB3	1.58	0.82
10:4:304:ARG:HH22	10:4:422:GLU:HB2	1.45	0.82
13:7:648:LYS:HE2	13:7:704:LEU:HB3	1.61	0.82
1:A:27:VAL:HG13	1:A:28:ASN:H	1.44	0.82
2:B:7:LEU:HD23	2:B:10:THR:HG23	1.60	0.82
4:D:203:PRO:HG2	4:D:206:LEU:HD12	1.60	0.82
8:2:573:ALA:HB1	12:6:669:HIS:HA	1.60	0.82
12:6:703:ALA:O	12:6:707:SER:N	2.12	0.82
4:D:250:GLU:HG3	4:D:256:TYR:HD2	1.44	0.82
9:3:530:HIS:HA	9:3:533:ILE:HD12	1.62	0.82
2:B:71:VAL:HB	2:B:75:ILE:HD11	1.61	0.82
8:2:302:THR:HG21	8:2:319:ARG:H	1.45	0.82
10:4:306:TYR:HB3	10:4:465:HIS:HD2	1.42	0.82
4:D:220:ASP:HA	4:D:222:PRO:HD2	1.62	0.82
8:2:574:VAL:HG12	12:6:664:ALA:HB3	1.62	0.81
8:2:670:THR:HG23	8:2:673:ILE:H	1.42	0.81
12:6:118:PHE:HE1	12:6:161:ARG:HB3	1.43	0.81
11:5:374:ILE:HB	11:5:385:LYS:HE2	1.60	0.81
12:6:118:PHE:CZ	12:6:158:LEU:HA	2.15	0.81
12:6:115:PHE:HA	12:6:118:PHE:HB3	1.62	0.81
8:2:382:TYR:HB2	11:5:153:SER:HB2	1.63	0.81
11:5:361:SER:HA	11:5:366:LEU:HD22	1.62	0.81
11:5:45:ILE:HG13	11:5:46:TYR:H	1.45	0.81
13:7:143:LEU:HD11	13:7:197:THR:HG22	1.62	0.81
13:7:442:LYS:HB3	13:7:450:ILE:HG12	1.60	0.81
1:A:117:GLN:HE22	1:A:131:LEU:HD21	1.45	0.81
4:D:232:VAL:HG12	4:D:271:ILE:HG22	1.62	0.81
10:4:204:LYS:HA	10:4:207:LYS:HD3	1.60	0.81
12:6:706:MET:HA	12:6:712:PHE:CZ	2.15	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:140:GLU:O	2:B:144:LYS:HG2	1.80	0.81
4:D:259:THR:HG21	4:D:268:GLU:HA	1.63	0.81
8:2:667:VAL:HG22	8:2:669:LEU:H	1.46	0.81
10:4:348:LYS:O	10:4:383:SER:N	2.14	0.81
11:5:33:ASN:O	11:5:37:GLU:N	2.13	0.81
11:5:91:GLU:HG3	11:5:137:LEU:HD23	1.60	0.81
4:D:77:LEU:HB3	4:D:78:PRO:HD2	1.63	0.81
4:D:123:LYS:HE3	5:E:20:SER:HB3	1.61	0.81
8:2:803:PHE:HB2	8:2:805:ILE:N	1.96	0.81
10:4:202:LYS:H	10:4:224:LEU:HB3	1.44	0.81
10:4:605:ILE:HA	10:4:616:LEU:HA	1.61	0.81
12:6:118:PHE:HZ	12:6:158:LEU:HA	1.44	0.81
5:E:624:ASN:HB3	5:E:629:ILE:HG23	1.63	0.81
10:4:200:SER:HA	10:4:224:LEU:HD22	1.63	0.81
10:4:589:VAL:HG21	10:4:624:SER:CA	2.08	0.81
12:6:796:THR:HB	12:6:799:GLN:HG2	1.63	0.81
13:7:226:SER:HB3	13:7:229:GLN:HG2	1.62	0.81
8:2:229:ALA:HA	8:2:232:ARG:HG2	1.62	0.81
9:3:455:ARG:HH22	9:3:500:ALA:HB3	1.44	0.81
10:4:631:ILE:HB	10:4:673:ALA:HA	1.61	0.81
13:7:236:GLY:N	13:7:355:PHE:O	2.13	0.81
2:B:25:ILE:N	2:B:71:VAL:O	2.14	0.81
8:2:539:VAL:N	8:2:646:ILE:O	2.11	0.81
10:4:243:LEU:HD13	10:4:305:PRO:HB3	1.59	0.81
12:6:765:LEU:HD22	12:6:770:ARG:HB3	1.63	0.81
12:6:796:THR:HG22	12:6:798:ARG:H	1.43	0.81
4:D:176:SER:HB3	4:D:179:GLU:HG3	1.62	0.81
8:2:671:GLU:O	8:2:675:SER:N	2.14	0.81
9:3:518:PRO:HB3	9:3:524:ASP:HB2	1.61	0.81
1:A:169:LYS:N	1:A:185:LYS:HD3	1.95	0.81
1:A:168:LEU:HD11	1:A:206:GLN:CB	2.11	0.81
3:C:135:LEU:HA	3:C:138:HIS:HD2	1.46	0.81
8:2:601:LYS:O	8:2:771:ARG:NH2	2.11	0.81
9:3:163:ALA:H	9:3:164:HIS:HB2	1.45	0.81
1:A:41:LEU:HD13	4:D:201:TYR:CE2	2.15	0.81
2:B:198:ALA:HB1	3:C:113:MET:SD	2.21	0.81
13:7:89:GLN:HE22	13:7:103:VAL:HG23	1.47	0.80
13:7:236:GLY:HA2	13:7:356:LEU:CD2	2.12	0.80
5:E:522:LEU:HD11	5:E:527:LEU:HD13	1.63	0.80
5:E:537:ASP:HA	5:E:540:ARG:HG3	1.63	0.80
12:6:399:GLY:HA2	12:6:454:PHE:CZ	2.16	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:57:GLN:HG2	1:A:62:MET:HG2	1.62	0.80
5:E:551:TRP:HE3	5:E:552:LEU:HD12	1.47	0.80
8:2:536:ASP:HB3	8:2:645:SER:HA	1.63	0.80
9:3:201:HIS:O	9:3:210:HIS:N	2.14	0.80
13:7:238:LEU:HA	13:7:354:ILE:HA	1.63	0.80
13:7:358:ALA:HB2	13:7:375:TYR:HE2	1.46	0.80
13:7:517:ASP:HB2	13:7:560:ARG:H	1.46	0.80
4:D:189:ILE:HD12	4:D:192:LYS:HB2	1.62	0.80
4:D:232:VAL:HB	4:D:271:ILE:HA	1.63	0.80
5:E:572:ILE:HD13	5:E:579:TYR:H	1.47	0.80
11:5:449:LEU:CD2	11:5:493:ILE:HD11	2.11	0.80
12:6:773:LEU:HD21	12:6:800:LEU:HD11	1.64	0.80
13:7:248:VAL:HG11	13:7:345:PRO:HD3	1.62	0.80
13:7:490:GLY:HA2	13:7:493:LEU:HG	1.62	0.80
13:7:94:LEU:HB2	13:7:95:GLN:CB	2.08	0.80
1:A:199:LEU:HB2	1:A:205:LEU:HD11	1.63	0.80
5:E:436:ASN:HD22	5:E:472:ARG:HD2	1.44	0.80
5:E:81:LEU:HB3	5:E:120:ILE:HG13	1.63	0.80
8:2:794:ARG:HG2	8:2:798:ILE:CD1	2.11	0.80
10:4:344:VAL:HA	10:4:359:GLU:HA	1.63	0.80
11:5:301:TYR:CE2	11:5:327:TYR:HB3	2.17	0.80
12:6:135:VAL:HG22	12:6:138:ALA:HB3	1.64	0.80
5:E:557:ALA:HA	5:E:560:GLU:HG2	1.62	0.80
8:2:409:ILE:HD11	8:2:450:ILE:HG22	1.62	0.80
8:2:315:SER:N	8:2:430:TYR:O	2.14	0.80
9:3:98:ILE:O	9:3:157:PHE:HA	1.81	0.80
12:6:775:GLU:HA	12:6:778:LYS:HB3	1.64	0.80
5:E:434:VAL:HG22	5:E:435:GLY:H	1.45	0.80
5:E:431:LEU:HD13	5:E:480:SER:HA	1.63	0.80
8:2:778:LEU:HD13	8:2:783:MET:HG3	1.62	0.80
10:4:243:LEU:HD21	10:4:245:ALA:HB2	1.64	0.80
10:4:600:GLY:HA2	10:4:604:TYR:HE1	1.47	0.80
11:5:209:ARG:HA	11:5:239:ASP:HA	1.64	0.80
12:6:355:ASP:OD2	12:6:383:GLY:N	2.15	0.80
12:6:550:GLN:HG2	12:6:569:ILE:HG23	1.62	0.80
4:D:214:GLY:CA	4:D:216:VAL:HA	2.11	0.80
8:2:335:LYS:HD2	8:2:383:ARG:NH1	1.96	0.80
12:6:359:VAL:HG23	12:6:379:VAL:HG13	1.62	0.80
12:6:574:VAL:HA	12:6:581:LYS:HZ1	1.46	0.80
13:7:61:PRO:HG2	13:7:64:MET:HG3	1.62	0.80
13:7:343:LEU:HD23	13:7:383:GLN:HE21	1.47	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:579:TYR:HB2	5:E:632:ILE:O	1.81	0.80
9:3:199:SER:HB3	9:3:212:ARG:HB3	1.64	0.79
9:3:214:TYR:CE1	9:3:229:ALA:HB3	2.15	0.79
10:4:603:ALA:HB3	10:4:658:LYS:HE2	1.64	0.79
8:2:798:ILE:CD1	11:5:560:HIS:HB2	2.11	0.79
11:5:677:VAL:HG12	11:5:681:ILE:HD11	1.64	0.79
8:2:501:MET:CE	8:2:516:ALA:HB2	2.12	0.79
9:3:186:VAL:O	9:3:289:GLY:N	2.14	0.79
11:5:170:SER:HB3	11:5:255:PHE:HB2	1.62	0.79
12:6:162:GLU:HG2	12:6:166:LEU:HB2	1.64	0.79
1:A:37:ILE:HA	1:A:40:ILE:HD12	1.63	0.79
2:B:17:GLN:HA	2:B:20:VAL:HG12	1.65	0.79
5:E:637:LEU:HA	5:E:640:PHE:HB3	1.63	0.79
11:5:320:GLY:HA2	11:5:323:ILE:H	1.45	0.79
8:2:704:VAL:HG13	12:6:766:THR:HG23	1.64	0.79
10:4:543:GLN:HG3	10:4:562:ILE:HG13	1.64	0.79
11:5:389:VAL:HA	11:5:392:LEU:HG	1.64	0.79
11:5:608:LEU:HD11	11:5:609:LYS:HZ2	1.48	0.79
10:4:661:ILE:CG2	12:6:392:GLY:HA3	2.09	0.79
1:A:7:ASN:HA	1:A:10:VAL:CG1	2.12	0.79
8:2:309:LEU:O	8:2:310:ARG:NH1	2.12	0.79
8:2:264:PRO:HG3	8:2:317:LEU:CB	2.12	0.79
9:3:176:LEU:HG	9:3:298:PHE:HD2	1.47	0.79
12:6:359:VAL:HG22	12:6:381:LEU:HD21	1.65	0.79
9:3:447:THR:HB	9:3:448:THR:HA	1.64	0.79
10:4:621:LEU:HA	10:4:624:SER:HB2	1.64	0.79
8:2:541:LEU:HA	8:2:681:CYS:HB2	1.63	0.79
10:4:655:SER:HA	10:4:664:THR:HA	1.65	0.79
11:5:481:GLU:HB3	11:5:484:LYS:HB2	1.63	0.79
11:5:86:ILE:HA	11:5:89:LEU:HG	1.63	0.79
12:6:174:TYR:CE2	12:6:178:LEU:HD11	2.18	0.79
2:B:140:GLU:HG3	2:B:141:LEU:HD12	1.64	0.79
5:E:604:ASN:HB2	5:E:650:LEU:HD23	1.64	0.79
13:7:546:ILE:HD12	13:7:557:LEU:HD11	1.64	0.79
5:E:308:ASN:HB3	5:E:310:VAL:HG23	1.64	0.79
5:E:605:PHE:O	5:E:609:PHE:N	2.15	0.79
8:2:684:ARG:HB3	8:2:685:ASP:CA	2.12	0.79
3:C:46:LEU:HB3	3:C:50:LEU:HD11	1.65	0.79
8:2:638:THR:O	11:5:445:SER:N	2.15	0.79
9:3:201:HIS:HB2	9:3:210:HIS:CB	2.13	0.79
10:4:794:THR:CG2	10:4:797:GLN:HG2	2.13	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:266:GLU:HB3	4:D:268:GLU:HG3	1.64	0.79
5:E:348:LEU:HD21	5:E:401:LEU:HD21	1.65	0.79
5:E:75:ASP:HB3	5:E:118:ARG:HH12	1.45	0.79
9:3:225:ILE:H	9:3:225:ILE:HD12	1.47	0.78
10:4:547:GLY:HA3	10:4:560:GLY:HA2	1.64	0.78
11:5:300:ILE:HG22	11:5:324:ARG:HB2	1.65	0.78
5:E:98:ILE:N	5:E:99:ASP:HB3	1.98	0.78
9:3:486:ILE:HA	9:3:489:VAL:CB	2.13	0.78
9:3:445:ALA:CB	9:3:499:LYS:HD2	2.13	0.78
10:4:623:LEU:HD22	12:6:370:THR:HB	1.65	0.78
13:7:462:PRO:O	13:7:464:VAL:HG23	1.82	0.78
13:7:689:LEU:HA	13:7:692:ILE:HG22	1.64	0.78
2:B:155:LYS:HA	2:B:158:LYS:HG2	1.64	0.78
4:D:199:LEU:HD22	4:D:202:MET:HE2	1.66	0.78
13:7:453:ASP:OD2	13:7:562:SER:HA	1.83	0.78
2:B:150:GLU:HG3	2:B:154:ILE:HG23	1.64	0.78
8:2:332:PRO:HG3	11:5:300:ILE:CD1	2.14	0.78
10:4:241:LEU:HD23	10:4:243:LEU:H	1.48	0.78
11:5:152:ASP:HB3	11:5:154:GLU:HG2	1.64	0.78
13:7:208:SER:HB3	13:7:209:GLN:HA	1.63	0.78
10:4:224:LEU:HD11	10:4:227:ILE:HB	1.66	0.78
12:6:183:LYS:HG2	12:6:186:ARG:HH11	1.46	0.78
12:6:537:VAL:HG11	12:6:584:PHE:HE1	1.49	0.78
8:2:330:VAL:HG13	8:2:415:VAL:HG11	1.64	0.78
9:3:368:ALA:HB2	9:3:378:LYS:HE2	1.66	0.78
11:5:503:SER:HB3	11:5:512:VAL:HG22	1.65	0.78
12:6:638:ILE:HG22	12:6:639:ASP:H	1.48	0.78
12:6:371:GLY:HA3	13:7:554:ASN:HD21	1.47	0.78
9:3:339:ARG:N	9:3:340:GLN:HB2	1.99	0.78
9:3:556:ILE:H	9:3:556:ILE:HD12	1.46	0.78
10:4:348:LYS:HB2	10:4:383:SER:HB2	1.65	0.78
11:5:487:ASP:HA	11:5:490:ARG:HB3	1.65	0.78
12:6:151:ILE:HD13	12:6:153:ILE:HG23	1.63	0.78
8:2:584:PRO:HB2	8:2:585:ILE:HG13	1.64	0.78
12:6:359:VAL:CG2	12:6:381:LEU:HD21	2.14	0.78
12:6:794:ARG:HB2	12:6:795:ILE:C	2.03	0.78
13:7:504:ASP:HB3	13:7:505:GLU:CB	2.11	0.78
4:D:267:VAL:HB	4:D:268:GLU:HA	1.66	0.78
8:2:526:ASN:HA	8:2:532:SER:HA	1.65	0.78
8:2:760:GLN:HA	8:2:763:LEU:HG	1.66	0.78
9:3:259:GLN:HG3	9:3:271:PRO:HB2	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:294:ILE:CG2	11:5:330:ILE:HG23	2.13	0.78
11:5:50:LEU:HD22	11:5:101:ILE:HD12	1.66	0.78
11:5:420:THR:HG23	11:5:556:VAL:HG21	1.65	0.78
8:2:525:LYS:HZ2	11:5:577:THR:H	1.30	0.78
12:6:134:LYS:N	12:6:135:VAL:HA	1.98	0.78
12:6:795:ILE:CG2	12:6:799:GLN:HG3	2.13	0.78
4:D:259:THR:HG21	4:D:268:GLU:CA	2.13	0.78
5:E:287:VAL:HG12	5:E:291:LEU:HD21	1.66	0.78
10:4:748:THR:HA	10:4:751:ILE:HD12	1.66	0.78
11:5:635:ILE:HA	11:5:638:LEU:HG	1.65	0.78
1:A:149:ILE:HD11	4:D:140:ILE:CD1	2.14	0.78
5:E:325:TYR:HD2	5:E:404:ILE:HA	1.47	0.78
5:E:328:LEU:CD1	5:E:500:GLN:HG2	2.13	0.78
8:2:325:THR:HG22	8:2:326:ARG:H	1.49	0.77
8:2:567:THR:O	8:2:606:ILE:HG23	1.83	0.77
9:3:234:GLU:N	9:3:241:LEU:HG	1.98	0.77
9:3:374:HIS:HB3	9:3:377:ILE:HD12	1.64	0.77
12:6:355:ASP:HB3	12:6:356:TRP:CA	2.14	0.77
2:B:94:THR:HB	2:B:97:GLU:HB3	1.66	0.77
3:C:98:HIS:HA	3:C:102:SER:HB2	1.66	0.77
5:E:313:PRO:HA	5:E:415:TYR:CE2	2.19	0.77
5:E:313:PRO:HA	5:E:415:TYR:HE2	1.49	0.77
8:2:441:LYS:HA	8:2:442:ASN:HB2	1.66	0.77
10:4:433:ILE:CG2	10:4:435:VAL:HG23	2.13	0.77
11:5:374:ILE:HB	11:5:385:LYS:CE	2.14	0.77
10:4:292:ASP:HA	10:4:293:LEU:HD12	1.66	0.77
10:4:626:GLY:H	10:4:669:SER:HB3	1.48	0.77
9:3:19:ALA:O	9:3:23:ASP:N	2.14	0.77
10:4:308:VAL:HG21	10:4:325:LEU:HB3	1.67	0.77
11:5:32:LYS:HA	11:5:35:ILE:HD12	1.64	0.77
8:2:705:ARG:HB2	12:6:559:THR:CB	2.14	0.77
13:7:110:ALA:HA	13:7:113:PHE:HD2	1.49	0.77
13:7:656:VAL:HG12	13:7:710:ILE:HB	1.66	0.77
5:E:310:VAL:HG13	5:E:311:LYS:HA	1.64	0.77
12:6:528:LYS:HA	12:6:531:ARG:HG2	1.66	0.77
1:A:159:SER:HB3	1:A:160:ASP:HB2	1.67	0.77
5:E:151:THR:HB	5:E:153:GLY:N	2.00	0.77
5:E:362:MET:O	5:E:366:MET:N	2.16	0.77
8:2:219:THR:HB	8:2:223:GLY:HA2	1.65	0.77
8:2:619:SER:HA	8:2:622:GLU:HB3	1.65	0.77
10:4:342:MET:HB3	10:4:360:ILE:CG1	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:69:ILE:CD1	11:5:73:GLU:HA	2.15	0.77
13:7:587:PRO:HG2	13:7:590:LEU:CB	2.15	0.77
1:A:185:LYS:HD2	1:A:186:ASP:H	1.49	0.77
2:B:54:THR:HA	4:D:129:MET:SD	2.23	0.77
5:E:12:TYR:O	5:E:15:ILE:HG22	1.83	0.77
5:E:621:ARG:HB2	5:E:631:GLU:HB2	1.64	0.77
9:3:169:ARG:O	9:3:272:ARG:NH2	2.17	0.77
9:3:486:ILE:CA	9:3:489:VAL:HB	2.14	0.77
10:4:248:LEU:HB2	10:4:258:TYR:CD1	2.19	0.77
10:4:245:ALA:HB3	10:4:306:TYR:O	1.85	0.77
12:6:308:SER:O	12:6:347:ASN:N	2.13	0.77
12:6:732:VAL:HA	12:6:735:HIS:CD2	2.19	0.77
12:6:752:ARG:HA	12:6:755:ILE:HD12	1.66	0.77
12:6:776:LYS:HA	12:6:779:GLU:HG2	1.65	0.77
13:7:262:CYS:SG	13:7:265:CYS:HB2	2.24	0.77
13:7:493:LEU:HB2	13:7:513:LEU:HG	1.67	0.77
1:A:147:VAL:HG11	1:A:149:ILE:HG13	1.66	0.77
5:E:52:GLN:HB2	5:E:54:VAL:HG23	1.67	0.77
8:2:604:CYS:N	8:2:645:SER:O	2.15	0.77
9:3:163:ALA:N	9:3:164:HIS:HB2	1.99	0.77
9:3:198:ARG:HB3	9:3:249:THR:HG23	1.66	0.77
9:3:31:PHE:CD1	9:3:32:LEU:HA	2.20	0.77
12:6:572:CYS:H	12:6:712:PHE:HA	1.48	0.77
13:7:444:VAL:HG23	13:7:446:ASP:H	1.49	0.77
13:7:428:VAL:HG13	13:7:598:PHE:HD2	1.50	0.77
5:E:626:GLU:HB3	5:E:629:ILE:HG22	1.66	0.77
10:4:397:ILE:HB	10:4:417:LEU:HD11	1.65	0.77
11:5:28:ILE:HG21	11:5:96:GLN:HE22	1.49	0.77
13:7:135:LYS:HA	13:7:136:ASP:HB3	1.67	0.77
1:A:83:LYS:CE	4:D:206:LEU:HB3	2.14	0.77
4:D:231:HIS:O	4:D:292:ALA:N	2.18	0.77
8:2:813:ILE:CD1	8:2:841:VAL:HG21	2.13	0.77
9:3:569:HIS:NE2	11:5:657:ILE:HD13	1.98	0.77
11:5:594:ILE:HG22	11:5:596:ILE:H	1.49	0.77
13:7:244:ILE:HG13	13:7:348:ILE:HG12	1.66	0.77
2:B:10:THR:HA	2:B:182:ARG:HH11	1.50	0.77
3:C:112:ILE:CD1	3:C:121:ALA:HB2	2.15	0.77
5:E:150:ASP:H	5:E:151:THR:HA	1.50	0.77
5:E:516:LYS:HE2	5:E:518:LEU:HD11	1.67	0.77
8:2:518:SER:HA	8:2:537:ILE:HD13	1.66	0.76
8:2:484:PHE:CZ	8:2:766:TYR:HA	2.20	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:3:1001:ATP:C8	11:5:650:ILE:HD11	2.20	0.76
9:3:678:VAL:HG23	9:3:723:LYS:HD2	1.66	0.76
10:4:419:VAL:HG12	10:4:463:VAL:HG11	1.66	0.76
1:A:145:ASP:HB3	1:A:147:VAL:HG23	1.66	0.76
5:E:360:HIS:HA	5:E:363:PHE:CD2	2.18	0.76
9:3:194:PRO:HA	9:3:252:ASP:HA	1.67	0.76
9:3:30:GLU:O	9:3:34:THR:N	2.18	0.76
9:3:292:VAL:HG11	9:3:326:VAL:HG12	1.67	0.76
9:3:406:LEU:HD12	9:3:514:ALA:HB3	1.66	0.76
10:4:324:LYS:O	10:4:438:THR:HA	1.84	0.76
10:4:441:SER:HB3	10:4:459:THR:HG22	1.68	0.76
11:5:276:MET:HB3	11:5:330:ILE:CD1	2.15	0.76
11:5:413:LEU:HA	11:5:521:ALA:O	1.85	0.76
12:6:404:VAL:HG13	12:6:405:PRO:HD2	1.66	0.76
12:6:603:SER:N	12:6:604:SER:HA	2.01	0.76
12:6:765:LEU:CD2	12:6:770:ARG:HB3	2.15	0.76
4:D:212:THR:N	4:D:213:GLU:HA	2.00	0.76
9:3:270:LEU:HD21	11:5:464:LEU:HD22	1.67	0.76
9:3:430:ILE:H	9:3:430:ILE:HD12	1.49	0.76
5:E:493:ASN:HA	5:E:496:ILE:HD12	1.68	0.76
8:2:322:GLY:CA	8:2:390:LEU:HD21	2.12	0.76
10:4:356:MET:HB2	10:4:372:GLU:HG3	1.66	0.76
10:4:530:ILE:CG2	10:4:533:LEU:HD11	2.16	0.76
11:5:138:ILE:HG23	11:5:332:GLY:HA3	1.68	0.76
11:5:357:PHE:CE1	11:5:598:LYS:HE2	2.21	0.76
11:5:622:LEU:HD21	11:5:677:VAL:CG1	2.15	0.76
13:7:247:ARG:O	13:7:248:VAL:HG12	1.85	0.76
13:7:311:GLN:CB	13:7:335:VAL:HB	2.13	0.76
4:D:137:LYS:HG2	4:D:141:ARG:HH12	1.50	0.76
5:E:137:SER:HA	5:E:140:ILE:CD1	2.14	0.76
8:2:348:LEU:HD13	8:2:365:THR:CB	2.15	0.76
8:2:609:PHE:O	8:2:617:ARG:NH2	2.19	0.76
9:3:181:SER:HA	9:3:295:VAL:HG22	1.67	0.76
10:4:370:ARG:CB	10:4:371:CYS:HB2	2.13	0.76
10:4:419:VAL:HG12	10:4:463:VAL:HG21	1.66	0.76
11:5:179:LEU:HD11	11:5:192:ILE:HB	1.68	0.76
12:6:106:VAL:O	12:6:110:LYS:N	2.19	0.76
12:6:522:ASP:HB2	12:6:525:ILE:HG23	1.65	0.76
13:7:245:ILE:HD13	13:7:343:LEU:HB3	1.68	0.76
1:A:149:ILE:HG23	1:A:151:LEU:N	2.01	0.76
2:B:167:HIS:CE1	4:D:267:VAL:HG11	2.20	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:96:GLN:O	4:D:100:ASN:ND2	2.19	0.76
10:4:634:PHE:HZ	10:4:698:LEU:HD11	1.50	0.76
11:5:596:ILE:HA	11:5:599:MET:HB3	1.67	0.76
2:B:100:ARG:HA	2:B:103:GLN:HB2	1.68	0.76
3:C:170:GLU:O	3:C:174:LYS:N	2.18	0.76
4:D:123:LYS:CE	5:E:20:SER:HB3	2.14	0.76
8:2:484:PHE:HZ	8:2:766:TYR:HA	1.50	0.76
8:2:658:ASN:ND2	8:2:666:ASN:O	2.19	0.76
9:3:33:ASP:O	9:3:36:THR:HB	1.86	0.76
11:5:244:ILE:O	11:5:248:SER:OG	2.03	0.76
4:D:229:PHE:HA	4:D:276:VAL:HG22	1.68	0.76
8:2:264:PRO:CG	8:2:317:LEU:HB2	2.15	0.76
8:2:630:SER:HB2	11:5:444:SER:CA	2.16	0.76
10:4:277:LYS:HA	10:4:301:TYR:CD2	2.21	0.76
10:4:729:LEU:HB3	10:4:730:GLU:HA	1.68	0.76
13:7:245:ILE:HD11	13:7:343:LEU:HD22	1.68	0.76
13:7:444:VAL:HG22	13:7:448:MET:H	1.51	0.76
5:E:579:TYR:CE2	5:E:634:ARG:HB3	2.21	0.76
8:2:663:LEU:HG	8:2:666:ASN:HB3	1.68	0.76
9:3:303:ALA:CB	9:3:307:ASN:HB2	2.16	0.76
9:3:443:THR:HG22	9:3:459:ALA:HA	1.68	0.76
12:6:537:VAL:HG11	12:6:584:PHE:CE1	2.22	0.76
12:6:637:CYS:HA	12:6:679:LEU:O	1.85	0.76
4:D:154:PHE:HE1	4:D:221:GLU:HB2	1.51	0.76
8:2:843:ASP:HA	8:2:846:VAL:HB	1.64	0.75
10:4:433:ILE:HG21	10:4:435:VAL:HG23	1.68	0.75
10:4:634:PHE:HA	10:4:637:MET:HG2	1.68	0.75
2:B:51:GLN:N	2:B:52:LEU:HA	1.99	0.75
3:C:75:LEU:HG	3:C:76:PRO:HD2	1.67	0.75
8:2:244:VAL:H	8:2:297:ILE:HA	1.49	0.75
9:3:678:VAL:CG2	9:3:723:LYS:HD2	2.16	0.75
1:A:47:LEU:HD22	1:A:79:MET:SD	2.26	0.75
5:E:49:PHE:HB3	5:E:54:VAL:HB	1.66	0.75
10:4:195:ARG:O	10:4:199:MET:N	2.18	0.75
10:4:236:LEU:HB3	10:4:238:THR:HG23	1.67	0.75
10:4:592:SER:HA	10:4:632:ASP:CB	2.16	0.75
11:5:605:TYR:O	11:5:609:LYS:HG2	1.87	0.75
12:6:614:ARG:HG2	12:6:615:ASP:HA	1.67	0.75
13:7:254:ALA:N	13:7:308:SER:O	2.18	0.75
13:7:434:LEU:O	13:7:438:GLY:N	2.18	0.75
4:D:78:PRO:HA	4:D:174:LEU:HD12	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:299:ASP:HA	8:2:319:ARG:CZ	2.17	0.75
9:3:389:VAL:HG23	9:3:714:LYS:HE3	1.67	0.75
10:4:230:LEU:HD22	10:4:283:LEU:HD22	1.69	0.75
10:4:354:HIS:CD2	10:4:356:MET:HG2	2.20	0.75
10:4:822:VAL:HA	10:4:825:ALA:HB3	1.67	0.75
8:2:574:VAL:HG12	12:6:664:ALA:CB	2.15	0.75
4:D:227:PHE:HD1	4:D:277:MET:HA	1.50	0.75
8:2:429:ILE:HD12	8:2:431:LYS:HE2	1.67	0.75
8:2:603:VAL:HG13	8:2:645:SER:HB2	1.68	0.75
11:5:276:MET:CB	11:5:330:ILE:HD11	2.16	0.75
12:6:645:ASP:O	12:6:649:GLN:HG2	1.87	0.75
12:6:691:ARG:HH11	12:6:716:LEU:HD22	1.51	0.75
12:6:803:MET:HA	12:6:806:LEU:HD12	1.67	0.75
12:6:554:GLY:HA3	12:6:808:GLU:OE1	1.87	0.75
13:7:244:ILE:HD11	13:7:318:LEU:HA	1.67	0.75
13:7:543:GLN:HG3	13:7:544:GLN:N	2.02	0.75
1:A:130:TYR:CD1	4:D:193:LEU:HB2	2.22	0.75
3:C:16:PHE:CE2	3:C:48:LEU:HB2	2.22	0.75
4:D:220:ASP:HB3	4:D:221:GLU:CG	2.16	0.75
5:E:315:THR:N	5:E:316:LEU:HB3	2.01	0.75
5:E:344:VAL:HG12	5:E:350:LEU:HD21	1.69	0.75
5:E:493:ASN:HA	5:E:496:ILE:HB	1.67	0.75
8:2:437:ASN:HA	8:2:438:LEU:C	2.07	0.75
9:3:163:ALA:CB	9:3:164:HIS:HB2	2.15	0.75
11:5:373:SER:HB3	11:5:594:ILE:HD13	1.69	0.75
12:6:551:MET:HE1	12:6:591:PHE:HE2	1.49	0.75
12:6:655:ALA:HB2	12:6:661:ILE:HD11	1.69	0.75
1:A:41:LEU:HA	1:A:44:VAL:HG12	1.69	0.75
4:D:67:TRP:HD1	4:D:143:TYR:HB2	1.51	0.75
8:2:570:GLY:N	8:2:571:ALA:HA	2.00	0.75
9:3:665:GLU:HG2	9:3:666:ARG:HG3	1.69	0.75
11:5:29:LYS:HA	11:5:32:LYS:HB3	1.69	0.75
11:5:412:VAL:HA	11:5:552:MET:O	1.87	0.75
1:A:51:THR:O	1:A:55:LYS:N	2.20	0.75
8:2:508:HIS:HB2	8:2:511:ILE:CG2	2.16	0.75
11:5:338:GLU:N	11:5:339:THR:HA	2.02	0.75
13:7:587:PRO:HG2	13:7:590:LEU:HB2	1.68	0.75
5:E:536:LEU:HD12	5:E:571:SER:HB2	1.68	0.75
8:2:479:GLU:HA	8:2:482:ARG:CD	2.17	0.75
10:4:202:LYS:H	10:4:224:LEU:CB	2.00	0.75
10:4:243:LEU:HD22	10:4:305:PRO:HA	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:369:ILE:HG12	11:5:594:ILE:HD12	1.68	0.75
12:6:685:VAL:CG2	12:6:700:ASN:HB2	2.16	0.75
5:E:605:PHE:HA	5:E:608:ALA:HB3	1.67	0.75
9:3:172:THR:CB	9:3:173:ALA:HA	2.10	0.74
10:4:315:ARG:HG2	10:4:410:GLN:HG2	1.69	0.74
11:5:634:LEU:HD12	11:5:637:GLU:HB2	1.68	0.74
1:A:18:GLN:HA	1:A:21:ALA:CB	2.17	0.74
2:B:7:LEU:N	2:B:8:GLN:HA	2.02	0.74
5:E:345:ASN:HA	5:E:350:LEU:CG	2.16	0.74
9:3:564:HIS:HA	9:3:567:ARG:HG2	1.69	0.74
11:5:237:GLY:HA2	11:5:240:PRO:HD3	1.70	0.74
4:D:78:PRO:HA	4:D:174:LEU:HA	1.67	0.74
4:D:200:LYS:HB2	4:D:201:TYR:CG	2.21	0.74
4:D:256:TYR:CD1	4:D:257:THR:HG23	2.22	0.74
9:3:113:GLY:O	9:3:117:GLU:N	2.21	0.74
9:3:163:ALA:HB3	9:3:164:HIS:CB	2.16	0.74
12:6:781:ARG:NE	12:6:795:ILE:O	2.19	0.74
5:E:29:ILE:HD11	5:E:58:ILE:HA	1.68	0.74
10:4:343:LYS:HB2	10:4:390:SER:HB2	1.69	0.74
10:4:758:ILE:CD1	10:4:813:LEU:HA	2.18	0.74
11:5:28:ILE:HG23	11:5:93:ALA:HB2	1.69	0.74
13:7:586:LEU:HB2	13:7:591:LEU:HD11	1.68	0.74
13:7:628:LEU:N	13:7:629:ASP:HA	2.02	0.74
3:C:24:ILE:HD11	3:C:38:ILE:HD12	1.68	0.74
5:E:543:LEU:HA	5:E:546:LEU:HB3	1.68	0.74
9:3:368:ALA:CB	9:3:371:ILE:HB	2.15	0.74
11:5:633:LEU:HD12	11:5:648:ILE:HD11	1.69	0.74
12:6:158:LEU:CD1	12:6:170:ILE:HD11	2.17	0.74
12:6:662:SER:CB	12:6:671:THR:HG22	2.17	0.74
13:7:353:GLY:HA2	13:7:379:GLN:CG	2.17	0.74
13:7:606:ARG:O	13:7:610:GLU:HG2	1.86	0.74
8:2:562:ARG:CG	8:2:599:ALA:HB1	2.18	0.74
11:5:279:ASP:H	11:5:282:LEU:HD12	1.50	0.74
10:4:712:VAL:HG22	13:7:672:LYS:NZ	2.03	0.74
2:B:141:LEU:O	2:B:145:ILE:N	2.15	0.74
3:C:47:PRO:HD2	3:C:50:LEU:HD21	1.68	0.74
8:2:319:ARG:HE	8:2:427:THR:HG22	1.53	0.74
8:2:785:LYS:HG2	8:2:789:VAL:HG23	1.68	0.74
9:3:168:PRO:HG2	9:3:260:GLU:HB3	1.69	0.74
10:4:223:GLU:HB3	10:4:228:LYS:HE3	1.69	0.74
10:4:649:MET:HB3	10:4:701:ARG:HD3	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:404:ARG:CZ	12:6:299:GLU:HA	2.17	0.74
3:C:109:ILE:HA	3:C:112:ILE:HG22	1.70	0.74
5:E:316:LEU:HD11	5:E:414:GLY:CA	2.16	0.74
9:3:169:ARG:HB2	9:3:260:GLU:HG3	1.68	0.74
9:3:524:ASP:OD1	9:3:532:ASN:ND2	2.20	0.74
10:4:342:MET:HE2	12:6:448:LEU:HD13	1.70	0.74
4:D:141:ARG:HA	4:D:144:ILE:HG12	1.70	0.74
8:2:659:SER:HA	10:4:928:ARG:NE	2.03	0.74
9:3:367:LEU:CD2	9:3:382:LEU:HD11	2.17	0.74
11:5:607:ARG:HA	11:5:665:LYS:HE3	1.70	0.74
12:6:290:ILE:HD13	12:6:454:PHE:CZ	2.23	0.74
9:3:110:PHE:HA	9:3:121:PHE:CE2	2.23	0.74
9:3:295:VAL:O	9:3:324:ASN:N	2.21	0.74
10:4:695:PRO:HD2	10:4:698:LEU:HD23	1.69	0.74
11:5:264:LEU:HB2	11:5:265:VAL:CG2	2.17	0.74
12:6:111:VAL:HA	12:6:114:ALA:HB3	1.70	0.74
13:7:311:GLN:N	13:7:335:VAL:O	2.20	0.74
5:E:335:TYR:HB2	5:E:373:ALA:HB1	1.70	0.74
5:E:381:ASP:H	5:E:384:ILE:HD12	1.50	0.74
9:3:374:HIS:HB2	9:3:378:LYS:NZ	2.03	0.73
10:4:313:GLY:HA2	10:4:403:PRO:HB3	1.69	0.73
10:4:565:LEU:HD21	10:4:675:ALA:CB	2.17	0.73
10:4:763:THR:O	10:4:767:LYS:NZ	2.20	0.73
11:5:175:ARG:HB2	11:5:251:ILE:HG13	1.69	0.73
11:5:505:ALA:HA	11:5:510:THR:HG22	1.68	0.73
13:7:523:ILE:HB	13:7:565:ALA:CB	2.17	0.73
5:E:30:PHE:CE2	5:E:81:LEU:HD11	2.22	0.73
8:2:795:ARG:HD2	11:5:562:GLU:HG2	1.70	0.73
9:3:439:GLY:HA3	9:3:442:LEU:HB2	1.70	0.73
10:4:233:MET:CE	10:4:239:SER:HA	2.18	0.73
10:4:397:ILE:O	10:4:417:LEU:HG	1.89	0.73
11:5:441:GLY:HA3	11:5:443:GLY:N	2.01	0.73
11:5:673:GLN:HB2	11:5:676:HIS:CB	2.18	0.73
13:7:362:GLY:CA	13:7:363:PHE:HB2	2.18	0.73
5:E:21:SER:HB2	5:E:24:SER:HA	1.70	0.73
5:E:311:LYS:N	5:E:312:THR:HA	2.03	0.73
10:4:315:ARG:HH22	13:7:251:VAL:H	1.33	0.73
10:4:678:ILE:HD11	10:4:693:ASP:HB2	1.70	0.73
8:2:798:ILE:HG21	11:5:560:HIS:CD2	2.24	0.73
13:7:236:GLY:HA2	13:7:356:LEU:HD23	1.70	0.73
13:7:518:ASN:HB2	13:7:560:ARG:HE	1.52	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:256:TYR:O	5:E:260:SER:N	2.18	0.73
5:E:285:ALA:HB3	5:E:286:GLN:HA	1.70	0.73
5:E:344:VAL:HG12	5:E:350:LEU:HD11	1.69	0.73
8:2:388:VAL:O	8:2:408:VAL:N	2.20	0.73
9:3:201:HIS:NE2	9:3:232:PRO:HG2	2.04	0.73
10:4:332:VAL:CB	10:4:429:ALA:HA	2.17	0.73
12:6:568:ASP:OD1	12:6:677:SER:HA	1.88	0.73
1:A:2:TYR:CE2	1:A:78:CYS:HB2	2.23	0.73
2:B:28:PHE:HE1	2:B:68:SER:HB2	1.50	0.73
5:E:34:LEU:HD11	5:E:543:LEU:CD1	2.14	0.73
11:5:161:ARG:HA	11:5:295:VAL:HG22	1.69	0.73
13:7:470:LEU:HD21	13:7:564:LEU:HD22	1.71	0.73
1:A:104:ASN:O	1:A:106:GLY:HA3	1.88	0.73
2:B:150:GLU:HA	2:B:153:GLN:HB3	1.69	0.73
3:C:81:SER:HB2	3:C:84:VAL:HG23	1.69	0.73
5:E:159:TYR:O	5:E:163:LEU:N	2.18	0.73
5:E:289:ASN:HA	5:E:292:TYR:CE2	2.23	0.73
5:E:45:LEU:HD11	5:E:49:PHE:CZ	2.23	0.73
5:E:634:ARG:HA	5:E:637:LEU:HG	1.69	0.73
10:4:546:GLY:HA2	10:4:807:ALA:HB2	1.69	0.73
12:6:124:VAL:HB	12:6:133:GLU:HA	1.70	0.73
13:7:145:GLN:HA	13:7:148:LEU:HB3	1.71	0.73
1:A:53:TYR:O	1:A:57:GLN:N	2.21	0.73
2:B:148:LEU:HA	2:B:151:ILE:CD1	2.19	0.73
5:E:29:ILE:HD11	5:E:58:ILE:CG2	2.19	0.73
8:2:541:LEU:N	8:2:648:ALA:O	2.22	0.73
8:2:760:GLN:HA	8:2:763:LEU:CG	2.19	0.73
9:3:415:LYS:HD3	9:3:515:ALA:HB1	1.69	0.73
11:5:412:VAL:HB	11:5:520:LEU:CG	2.18	0.73
11:5:434:PRO:HA	11:5:600:LYS:HD3	1.69	0.73
11:5:473:ASP:HA	11:5:517:THR:CG2	2.19	0.73
12:6:656:MET:HB3	12:6:708:ARG:CG	2.14	0.73
2:B:28:PHE:N	2:B:86:SER:O	2.20	0.73
8:2:388:VAL:HB	8:2:408:VAL:CB	2.17	0.73
11:5:254:GLN:HB2	11:5:283:THR:HG22	1.70	0.73
4:D:137:LYS:HD3	4:D:141:ARG:HH22	1.52	0.73
9:3:211:TYR:CD2	13:7:6:PRO:HG2	2.23	0.73
10:4:189:GLU:HA	10:4:192:THR:HG23	1.70	0.73
13:7:470:LEU:HB3	13:7:522:CYS:HB3	1.71	0.73
4:D:282:ILE:HD13	4:D:286:LEU:HD13	1.71	0.73
4:D:233:ASN:H	4:D:291:VAL:HA	1.52	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:266:ASN:HB2	5:E:269:ASN:CG	2.09	0.73
5:E:60:PRO:HD3	5:E:478:TRP:HZ2	1.54	0.73
9:3:204:ALA:HB1	9:3:205:LYS:HD2	1.69	0.73
9:3:493:GLN:HG3	9:3:509:ARG:HA	1.69	0.73
10:4:713:ASP:HB2	10:4:716:ASN:CB	2.18	0.73
13:7:22:THR:HA	13:7:25:LEU:HB2	1.69	0.73
13:7:357:PRO:CA	13:7:374:THR:HA	2.18	0.73
10:4:203:TYR:HB2	10:4:206:ARG:HG2	1.69	0.72
10:4:326:ILE:HG22	10:4:328:LEU:HG	1.68	0.72
10:4:830:ARG:HD3	10:4:833:ILE:HD12	1.71	0.72
11:5:258:LEU:N	11:5:274:LEU:O	2.19	0.72
12:6:651:ALA:HA	12:6:654:GLU:HB2	1.71	0.72
13:7:125:MET:HG3	13:7:126:PRO:HD2	1.71	0.72
1:A:170:ASP:HB3	1:A:204:TYR:CD1	2.24	0.72
3:C:51:ALA:HA	3:C:54:LEU:HG	1.70	0.72
8:2:323:VAL:CG2	8:2:393:ALA:HA	2.19	0.72
8:2:343:LYS:HB2	8:2:371:GLY:HA3	1.68	0.72
9:3:172:THR:HG22	9:3:176:LEU:N	2.04	0.72
9:3:276:VAL:HA	9:3:320:LEU:HD13	1.70	0.72
11:5:426:LEU:HD23	11:5:429:VAL:HG21	1.70	0.72
11:5:49:GLN:HG2	11:5:53:ASN:HD21	1.54	0.72
1:A:70:CYS:O	1:A:74:VAL:N	2.22	0.72
2:B:150:GLU:O	2:B:154:ILE:N	2.18	0.72
5:E:311:LYS:HB2	5:E:312:THR:C	2.10	0.72
5:E:43:LYS:HB2	5:E:484:LEU:HD21	1.70	0.72
8:2:335:LYS:HB3	8:2:381:VAL:O	1.89	0.72
8:2:542:LEU:CD1	8:2:652:PRO:HG3	2.20	0.72
8:2:584:PRO:HB2	8:2:585:ILE:HB	1.71	0.72
9:3:163:ALA:HB3	9:3:164:HIS:CG	2.24	0.72
11:5:169:THR:HG22	11:5:256:LEU:HG	1.69	0.72
12:6:133:GLU:HB3	12:6:134:LYS:CA	2.12	0.72
1:A:175:GLN:CB	1:A:180:VAL:HA	2.19	0.72
4:D:218:MET:HA	4:D:220:ASP:N	2.03	0.72
5:E:12:TYR:OH	5:E:52:GLN:NE2	2.22	0.72
5:E:611:GLN:HG3	5:E:649:LEU:HD11	1.70	0.72
8:2:502:ALA:HB3	8:2:512:LYS:CE	2.17	0.72
8:2:785:LYS:O	8:2:789:VAL:N	2.20	0.72
10:4:311:CYS:HB3	10:4:327:ASN:O	1.90	0.72
10:4:830:ARG:HA	10:4:833:ILE:HB	1.70	0.72
12:6:402:ILE:O	12:6:403:VAL:HG23	1.88	0.72
12:6:547:ILE:O	12:6:551:MET:HG3	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:750:GLN:HA	12:6:753:ARG:HH11	1.55	0.72
13:7:434:LEU:HD21	13:7:699:LEU:CD2	2.19	0.72
9:3:314:LEU:HD23	11:5:201:THR:HG23	1.70	0.72
12:6:554:GLY:CA	12:6:808:GLU:HB3	2.19	0.72
13:7:228:ARG:NH2	13:7:327:ILE:O	2.23	0.72
13:7:650:PRO:HA	13:7:706:ASP:HB3	1.69	0.72
8:2:419:LYS:CG	8:2:420:PRO:HD2	2.20	0.72
10:4:183:THR:HG23	10:4:264:TYR:CD2	2.25	0.72
11:5:656:ILE:HA	11:5:659:ILE:HD13	1.71	0.72
5:E:42:THR:O	5:E:46:SER:N	2.19	0.72
5:E:600:PRO:O	5:E:601:ILE:HG13	1.89	0.72
10:4:721:ALA:O	10:4:725:THR:N	2.22	0.72
9:3:314:LEU:CA	11:5:201:THR:HA	2.17	0.72
12:6:344:TRP:CB	12:6:345:THR:HA	2.20	0.72
13:7:543:GLN:CG	13:7:544:GLN:H	2.02	0.72
2:B:175:LEU:HA	2:B:178:ILE:HB	1.71	0.72
2:B:182:ARG:HA	4:D:229:PHE:CZ	2.24	0.72
1:A:87:LEU:HD13	3:C:4:TYR:HE1	1.55	0.72
9:3:294:VAL:HG22	9:3:326:VAL:HG13	1.71	0.72
9:3:553:ILE:HB	11:5:630:ARG:HD2	1.72	0.72
10:4:830:ARG:HA	10:4:833:ILE:HD12	1.71	0.72
11:5:382:GLU:O	11:5:386:LYS:N	2.21	0.72
11:5:413:LEU:CB	11:5:553:ILE:HG23	2.19	0.72
11:5:634:LEU:HA	11:5:637:GLU:HB2	1.72	0.72
12:6:189:VAL:O	12:6:193:ALA:N	2.22	0.72
1:A:41:LEU:HA	1:A:44:VAL:CG1	2.20	0.72
2:B:148:LEU:HA	2:B:151:ILE:HG12	1.72	0.72
2:B:79:LEU:HD21	4:D:124:LEU:HD23	1.71	0.72
5:E:539:TYR:HB3	5:E:545:LEU:HD11	1.69	0.72
10:4:347:PHE:HB3	10:4:382:MET:SD	2.30	0.72
10:4:661:ILE:HD13	12:6:392:GLY:N	2.04	0.72
13:7:259:ALA:O	13:7:301:SER:N	2.16	0.72
3:C:82:THR:HA	3:C:85:MET:HG2	1.72	0.72
10:4:762:ILE:HA	10:4:817:VAL:HG12	1.70	0.72
12:6:563:ILE:HD12	12:6:563:ILE:H	1.55	0.72
8:2:700:VAL:HG12	12:6:770:ARG:HH11	1.55	0.72
2:B:168:LEU:HB3	2:B:170:LEU:HD21	1.71	0.72
8:2:339:PHE:HB2	8:2:348:LEU:CD2	2.18	0.71
9:3:277:ILE:HB	9:3:322:LEU:HD22	1.71	0.71
9:3:682:ASN:O	9:3:686:LEU:HG	1.89	0.71
9:3:687:ARG:HG2	9:3:697:ILE:HG21	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:49:GLN:O	11:5:53:ASN:ND2	2.23	0.71
12:6:194:PRO:HG2	12:6:261:ARG:HH21	1.54	0.71
12:6:806:LEU:HB3	12:6:827:ALA:CB	2.18	0.71
3:C:126:GLU:OE2	3:C:130:GLN:NE2	2.22	0.71
3:C:53:ILE:HA	3:C:56:ILE:CG1	2.20	0.71
1:A:186:ASP:O	5:E:478:TRP:NE1	2.23	0.71
8:2:226:VAL:O	8:2:230:ARG:N	2.23	0.71
3:C:101:ASN:H	3:C:102:SER:HA	1.55	0.71
4:D:218:MET:N	4:D:219:ILE:HB	2.04	0.71
4:D:250:GLU:HG3	4:D:256:TYR:CD2	2.25	0.71
9:3:38:TYR:CZ	9:3:98:ILE:HA	2.26	0.71
8:2:676:ARG:HH12	11:5:418:PRO:HB2	1.54	0.71
11:5:379:PHE:CD2	11:5:568:ILE:HB	2.24	0.71
12:6:660:THR:CB	12:6:673:ASN:HA	2.21	0.71
4:D:64:MET:SD	4:D:139:VAL:HG11	2.30	0.71
10:4:395:GLN:CB	10:4:424:VAL:HG13	2.21	0.71
10:4:618:SER:HB3	10:4:622:VAL:HB	1.72	0.71
10:4:758:ILE:HG22	10:4:760:PRO:HD3	1.72	0.71
3:C:55:ALA:HB1	3:C:70:PRO:CB	2.20	0.71
4:D:123:LYS:HD3	5:E:22:HIS:NE2	2.05	0.71
5:E:579:TYR:CZ	5:E:634:ARG:HB3	2.26	0.71
7:G:16:DG:H2"	7:G:17:DA:C8	2.25	0.71
10:4:277:LYS:HA	10:4:301:TYR:HD2	1.56	0.71
10:4:587:ARG:O	10:4:627:GLY:HA3	1.89	0.71
11:5:148:LEU:HD23	11:5:260:GLU:HB3	1.71	0.71
12:6:601:LYS:HG3	12:6:643:LYS:HB3	1.72	0.71
3:C:188:LYS:HA	3:C:191:MET:HG2	1.71	0.71
5:E:293:PRO:O	5:E:297:ASP:N	2.21	0.71
9:3:40:ASP:O	9:3:44:SER:N	2.24	0.71
10:4:192:THR:HG22	10:4:195:ARG:NH2	2.04	0.71
10:4:453:LEU:HB2	13:7:278:PHE:CZ	2.25	0.71
11:5:148:LEU:HD11	11:5:274:LEU:CD1	2.20	0.71
11:5:436:ALA:HB2	11:5:476:VAL:HB	1.73	0.71
12:6:134:LYS:HG2	12:6:137:ARG:HG3	1.72	0.71
12:6:703:ALA:HA	12:6:706:MET:HB3	1.73	0.71
13:7:244:ILE:O	13:7:316:GLN:N	2.23	0.71
5:E:421:ALA:HA	5:E:424:PHE:HB3	1.71	0.71
5:E:92:LEU:O	5:E:96:LEU:N	2.23	0.71
9:3:533:ILE:HG21	9:3:540:LEU:CD1	2.16	0.71
11:5:51:ARG:HA	11:5:54:ILE:HD12	1.72	0.71
1:A:149:ILE:HG12	4:D:141:ARG:NE	2.05	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:561:ASP:HB3	5:E:562:LYS:CG	2.21	0.71
8:2:324:VAL:HG12	8:2:420:PRO:HA	1.72	0.71
9:3:687:ARG:HG2	9:3:697:ILE:CG2	2.20	0.71
10:4:688:VAL:HG11	10:4:836:TYR:CD1	2.26	0.71
11:5:544:THR:HB	11:5:547:LEU:HD12	1.73	0.71
12:6:171:SER:O	12:6:286:SER:HA	1.89	0.71
12:6:711:LEU:HB3	12:6:713:PHE:CE1	2.24	0.71
1:A:84:ARG:NH1	3:C:3:TYR:HA	2.06	0.71
5:E:637:LEU:O	5:E:641:LEU:HG	1.91	0.71
8:2:431:LYS:HB2	8:2:433:ASN:OD1	1.91	0.71
8:2:578:ALA:HB2	8:2:593:GLY:CA	2.16	0.71
9:3:176:LEU:HG	9:3:298:PHE:CD2	2.26	0.71
11:5:502:ILE:HB	11:5:513:LEU:HD11	1.70	0.71
8:2:445:PRO:HG3	12:6:325:PHE:HA	1.72	0.71
1:A:83:LYS:O	1:A:87:LEU:HG	1.91	0.71
4:D:144:ILE:O	4:D:148:LEU:HG	1.91	0.71
4:D:145:ARG:HA	4:D:148:LEU:CD1	2.18	0.71
5:E:33:CYS:SG	5:E:62:PHE:HA	2.30	0.71
8:2:227:TYR:HA	8:2:230:ARG:CB	2.21	0.71
8:2:430:TYR:CD1	8:2:451:ILE:HD11	2.25	0.71
9:3:389:VAL:HG21	9:3:669:PRO:HD2	1.73	0.71
12:6:767:LYS:NZ	12:6:820:THR:HA	2.05	0.71
13:7:599:LEU:HD11	13:7:726:SER:CB	2.20	0.71
1:A:97:LEU:CD1	1:A:123:LEU:HD11	2.21	0.71
2:B:170:LEU:CD1	4:D:276:VAL:HG23	2.21	0.71
3:C:46:LEU:HD13	3:C:54:LEU:CD1	2.21	0.71
5:E:61:ILE:HD12	5:E:61:ILE:H	1.56	0.71
8:2:585:ILE:HD12	11:5:457:PRO:HA	1.72	0.70
10:4:347:PHE:H	10:4:357:ALA:HB2	1.56	0.70
11:5:375:ALA:N	11:5:385:LYS:HE3	2.06	0.70
11:5:473:ASP:OD1	11:5:516:ARG:N	2.20	0.70
11:5:622:LEU:HD21	11:5:677:VAL:HG11	1.72	0.70
13:7:319:SER:HA	13:7:322:VAL:HG23	1.72	0.70
2:B:175:LEU:HA	2:B:178:ILE:HD12	1.72	0.70
2:B:94:THR:O	2:B:98:LEU:HG	1.91	0.70
4:D:200:LYS:HB2	4:D:201:TYR:CD2	2.26	0.70
4:D:230:ILE:HD12	4:D:291:VAL:HG21	1.72	0.70
12:6:143:MET:HE1	12:6:148:LEU:CB	2.15	0.70
13:7:460:GLY:HA3	13:7:600:MET:HB2	1.73	0.70
4:D:268:GLU:O	4:D:269:LEU:HD22	1.91	0.70
5:E:392:PHE:CA	5:E:396:LEU:HD23	2.16	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:420:ARG:HH11	11:5:499:GLN:HB3	1.57	0.70
9:3:683:TYR:CD2	9:3:702:LEU:HD12	2.27	0.70
10:4:329:LYS:HA	10:4:433:ILE:O	1.91	0.70
10:4:631:ILE:O	10:4:674:SER:N	2.21	0.70
12:6:625:ALA:HB3	12:6:626:GLY:CA	2.19	0.70
1:A:97:LEU:HB3	1:A:131:LEU:HD12	1.73	0.70
1:A:163:ILE:HG21	1:A:208:ILE:HG23	1.71	0.70
2:B:24:PRO:HA	2:B:72:VAL:HA	1.73	0.70
5:E:583:GLY:N	5:E:628:SER:O	2.25	0.70
8:2:426:VAL:HG12	8:2:456:ILE:HG13	1.73	0.70
10:4:501:ILE:HG21	10:4:749:MET:HE3	1.73	0.70
11:5:421:ALA:HA	14:5:801:ATP:O2A	1.92	0.70
11:5:428:PHE:CE2	11:5:432:VAL:HG21	2.26	0.70
12:6:711:LEU:HD12	12:6:712:PHE:H	1.57	0.70
12:6:806:LEU:HD11	12:6:831:LEU:CD2	2.21	0.70
13:7:154:LEU:HD13	13:7:189:THR:HG23	1.72	0.70
12:6:371:GLY:HA3	13:7:554:ASN:ND2	2.06	0.70
1:A:52:GLU:HA	1:A:55:LYS:HB3	1.72	0.70
4:D:257:THR:O	4:D:268:GLU:HB3	1.91	0.70
5:E:129:TRP:CH2	5:E:143:PHE:HB3	2.27	0.70
10:4:499:ARG:NH1	10:4:749:MET:HB3	2.05	0.70
11:5:422:LYS:NZ	14:5:801:ATP:O3G	2.23	0.70
11:5:439:THR:HA	11:5:444:SER:CB	2.22	0.70
12:6:545:LYS:O	12:6:549:LEU:HG	1.91	0.70
13:7:209:GLN:HG2	13:7:210:ASN:H	1.56	0.70
13:7:680:SER:HB2	13:7:681:PHE:CA	2.13	0.70
2:B:121:VAL:HG13	3:C:190:TRP:HZ2	1.57	0.70
8:2:426:VAL:HB	8:2:453:ALA:HB2	1.73	0.70
8:2:701:ASP:HA	8:2:704:VAL:HG23	1.73	0.70
10:4:437:GLY:HA2	10:4:464:VAL:HB	1.73	0.70
10:4:603:ALA:HB3	10:4:658:LYS:CE	2.21	0.70
10:4:695:PRO:HG2	10:4:698:LEU:HB3	1.72	0.70
10:4:794:THR:HG23	10:4:797:GLN:H	1.56	0.70
13:7:398:GLU:O	13:7:402:MET:HG3	1.92	0.70
4:D:216:VAL:HG22	4:D:219:ILE:HG13	1.71	0.70
8:2:338:LYS:HE2	8:2:379:LYS:CB	2.16	0.70
9:3:189:THR:HG23	9:3:256:ILE:CG2	2.21	0.70
9:3:32:LEU:HD13	9:3:38:TYR:HB2	1.73	0.70
10:4:547:GLY:HA3	10:4:560:GLY:CA	2.20	0.70
11:5:378:ILE:HA	14:5:801:ATP:C2	2.26	0.70
13:7:513:LEU:HD13	13:7:540:VAL:CG2	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:643:ALA:HA	13:7:646:LYS:HB2	1.74	0.70
13:7:670:ASP:HA	13:7:673:ARG:CG	2.21	0.70
8:2:383:ARG:HE	8:2:411:LEU:HD23	1.56	0.70
10:4:351:VAL:HG12	10:4:352:CYS:HA	1.74	0.70
10:4:370:ARG:HD3	10:4:379:PRO:CA	2.22	0.70
10:4:561:ASP:O	10:4:803:ARG:NH2	2.25	0.70
11:5:435:ILE:CD1	11:5:475:GLY:HA3	2.22	0.70
11:5:63:VAL:HG11	11:5:68:LEU:HD11	1.74	0.70
12:6:571:ILE:HB	12:6:679:LEU:HD12	1.74	0.70
13:7:89:GLN:NE2	13:7:103:VAL:HG23	2.07	0.70
1:A:79:MET:HB3	4:D:206:LEU:HD11	1.72	0.70
3:C:26:GLY:H	3:C:36:ARG:HG3	1.56	0.70
8:2:479:GLU:OE1	8:2:479:GLU:N	2.25	0.70
11:5:379:PHE:CB	11:5:568:ILE:HD13	2.22	0.70
12:6:361:ILE:HD12	12:6:397:PHE:HE2	1.55	0.70
13:7:240:THR:HG23	13:7:352:THR:HG22	1.73	0.70
1:A:168:LEU:CD1	1:A:206:GLN:HB2	2.20	0.70
1:A:168:LEU:CD2	1:A:206:GLN:HB2	2.21	0.70
5:E:615:GLU:HG2	5:E:616:THR:H	1.56	0.70
9:3:183:GLU:N	9:3:183:GLU:OE1	2.24	0.70
11:5:414:LEU:HB2	11:5:522:ALA:HA	1.74	0.70
11:5:49:GLN:HG2	11:5:53:ASN:ND2	2.06	0.70
12:6:362:GLN:HA	12:6:376:THR:CG2	2.22	0.70
13:7:362:GLY:HA2	13:7:363:PHE:CB	2.22	0.70
4:D:162:ASN:HA	4:D:169:ILE:HD12	1.74	0.70
4:D:224:TRP:CB	4:D:280:GLU:HB2	2.21	0.70
5:E:43:LYS:CB	5:E:484:LEU:HD21	2.20	0.70
10:4:183:THR:HG22	10:4:185:VAL:HB	1.74	0.69
12:6:179:PRO:HA	12:6:182:GLN:HE22	1.56	0.69
12:6:399:GLY:HA2	12:6:454:PHE:HZ	1.57	0.69
13:7:193:PRO:HD2	13:7:196:LEU:HD13	1.74	0.69
13:7:520:ILE:CA	13:7:562:SER:HB2	2.22	0.69
13:7:692:ILE:HA	13:7:695:LEU:HG	1.72	0.69
1:A:13:ALA:O	1:A:16:THR:HG22	1.92	0.69
5:E:347:LYS:HD2	5:E:401:LEU:HD23	1.74	0.69
5:E:471:LYS:O	5:E:475:SER:N	2.22	0.69
10:4:407:PRO:HG2	10:4:410:GLN:CB	2.23	0.69
11:5:498:GLU:N	11:5:498:GLU:OE1	2.25	0.69
9:3:569:HIS:CE1	11:5:657:ILE:HG21	2.27	0.69
13:7:68:GLN:O	13:7:72:ASN:N	2.25	0.69
5:E:162:LEU:HD22	5:E:165:LEU:HD23	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:43:LYS:HG2	5:E:484:LEU:HD21	1.74	0.69
9:3:176:LEU:HD23	9:3:177:ASN:N	2.06	0.69
9:3:189:THR:HG23	9:3:256:ILE:HG21	1.74	0.69
10:4:433:ILE:HG23	10:4:469:VAL:HA	1.74	0.69
10:4:802:ILE:HD13	12:6:735:HIS:CG	2.27	0.69
13:7:664:TYR:CG	13:7:689:LEU:HD22	2.27	0.69
1:A:17:LYS:HG2	1:A:92:LEU:HD21	1.74	0.69
5:E:545:LEU:HG	5:E:548:LEU:HD23	1.75	0.69
8:2:567:THR:HG22	8:2:572:SER:HB2	1.75	0.69
8:2:692:ASP:O	8:2:696:ALA:N	2.25	0.69
9:3:163:ALA:CA	9:3:164:HIS:HB2	2.22	0.69
9:3:182:VAL:O	9:3:294:VAL:N	2.25	0.69
9:3:463:VAL:CG2	9:3:495:VAL:HG21	2.23	0.69
12:6:143:MET:HE2	12:6:150:THR:H	1.57	0.69
12:6:780:LEU:HD22	12:6:781:ARG:HG3	1.73	0.69
13:7:273:VAL:CG1	13:7:278:PHE:HB3	2.19	0.69
1:A:23:SER:N	1:A:24:ASN:HA	2.08	0.69
2:B:196:HIS:CE1	4:D:263:LEU:HD21	2.26	0.69
5:E:32:SER:OG	5:E:84:VAL:O	2.10	0.69
8:2:525:LYS:NZ	11:5:577:THR:H	1.91	0.69
9:3:21:PHE:HE1	9:3:123:PRO:HB2	1.57	0.69
11:5:503:SER:CB	11:5:512:VAL:HG22	2.23	0.69
12:6:119:LEU:HD11	12:6:188:VAL:HG21	1.75	0.69
4:D:224:TRP:CZ3	4:D:283:ARG:HD3	2.28	0.69
5:E:43:LYS:HD3	5:E:481:TRP:CZ2	2.27	0.69
6:F:22:DT:H6	6:F:22:DT:H5"	1.55	0.69
9:3:730:ALA:O	9:3:734:ARG:N	2.25	0.69
10:4:233:MET:HE2	10:4:239:SER:HA	1.74	0.69
10:4:351:VAL:CG1	10:4:352:CYS:HA	2.22	0.69
8:2:419:LYS:HG3	11:5:269:GLU:HG2	1.73	0.69
12:6:406:ASP:N	12:6:449:THR:O	2.19	0.69
12:6:552:LEU:HG	12:6:759:ARG:CD	2.21	0.69
13:7:21:ILE:HD13	13:7:117:PHE:HA	1.75	0.69
13:7:220:ILE:HA	13:7:223:LYS:HZ3	1.57	0.69
3:C:106:SER:O	3:C:110:LYS:NZ	2.24	0.69
5:E:81:LEU:HD12	5:E:120:ILE:HG23	1.74	0.69
5:E:13:ASN:HA	5:E:16:LEU:HG	1.74	0.69
8:2:386:GLN:HB2	8:2:415:VAL:HG13	1.73	0.69
9:3:354:SER:HB3	9:3:717:LEU:HD22	1.72	0.69
8:2:630:SER:CB	11:5:445:SER:HA	2.23	0.69
10:4:762:ILE:HD11	12:6:736:MET:HE3	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:806:LEU:CB	12:6:827:ALA:HB1	2.21	0.69
13:7:214:ARG:N	13:7:215:TYR:HA	2.07	0.69
10:4:456:LEU:HG	13:7:253:PRO:O	1.93	0.69
13:7:479:ARG:CG	13:7:519:GLY:HA3	2.23	0.69
13:7:642:ILE:O	13:7:646:LYS:HG3	1.93	0.69
3:C:96:ASP:HA	3:C:168:LYS:HB2	1.75	0.69
4:D:231:HIS:N	4:D:292:ALA:O	2.21	0.69
5:E:558:GLU:N	5:E:559:SER:HA	2.08	0.69
8:2:253:LYS:HB3	8:2:255:ILE:HG13	1.73	0.69
9:3:201:HIS:CB	9:3:210:HIS:HB2	2.17	0.69
10:4:243:LEU:HB2	10:4:303:VAL:HG13	1.75	0.69
10:4:354:HIS:CD2	10:4:373:ARG:HG3	2.28	0.69
11:5:169:THR:CG2	11:5:256:LEU:HG	2.21	0.69
11:5:526:ILE:HB	11:5:527:TYR:HD2	1.57	0.69
11:5:633:LEU:CB	11:5:648:ILE:HD11	2.21	0.69
10:4:451:ARG:NE	12:6:445:VAL:HG21	2.08	0.69
12:6:522:ASP:HB2	12:6:525:ILE:CG2	2.23	0.69
4:D:105:PHE:O	4:D:108:MET:HG2	1.92	0.69
4:D:159:ARG:O	4:D:163:GLU:N	2.23	0.69
4:D:266:GLU:HB3	4:D:268:GLU:CG	2.23	0.69
5:E:558:GLU:OE1	5:E:560:GLU:HB2	1.93	0.69
8:2:227:TYR:HA	8:2:230:ARG:HB3	1.74	0.69
8:2:388:VAL:CB	8:2:408:VAL:HB	2.19	0.69
9:3:475:PHE:HA	9:3:478:MET:SD	2.33	0.69
9:3:530:HIS:HA	9:3:533:ILE:CD1	2.22	0.69
10:4:719:GLU:HA	10:4:722:LYS:HB2	1.74	0.69
10:4:795:THR:O	10:4:799:GLU:N	2.26	0.69
12:6:294:VAL:CG1	12:6:391:PRO:HA	2.22	0.69
12:6:720:ASN:O	12:6:724:ASP:N	2.23	0.69
2:B:161:LYS:HA	3:C:133:GLN:NE2	2.08	0.69
2:B:177:GLU:HA	2:B:180:GLU:HG2	1.74	0.69
5:E:271:TRP:O	5:E:275:LEU:N	2.26	0.69
5:E:559:SER:HB2	5:E:560:GLU:C	2.13	0.69
8:2:458:ARG:NH1	8:2:561:HIS:O	2.26	0.69
10:4:572:THR:HG21	10:4:708:VAL:HG11	1.75	0.69
13:7:128:PRO:HD2	13:7:129:THR:HA	1.75	0.69
13:7:244:ILE:CD1	13:7:318:LEU:HA	2.22	0.69
13:7:402:MET:HA	13:7:405:ILE:CB	2.21	0.69
1:A:102:TRP:HB3	4:D:145:ARG:HH22	1.58	0.69
1:A:161:VAL:HG12	1:A:192:ARG:HB2	1.74	0.69
2:B:12:SER:HB3	2:B:15:GLU:CG	2.20	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:20:PHE:CE1	3:C:46:LEU:HD11	2.18	0.69
8:2:243:GLU:HG2	8:2:297:ILE:O	1.92	0.69
8:2:335:LYS:HA	8:2:383:ARG:NH1	2.08	0.69
8:2:424:VAL:HG21	8:2:456:ILE:HG23	1.74	0.69
8:2:524:PRO:HB2	8:2:525:LYS:HA	1.75	0.69
10:4:461:VAL:HG12	10:4:463:VAL:N	2.07	0.69
11:5:473:ASP:HA	11:5:517:THR:HG22	1.74	0.69
11:5:594:ILE:HG22	11:5:596:ILE:N	2.06	0.69
12:6:532:SER:HA	12:6:744:PRO:CB	2.22	0.69
2:B:116:PRO:HB2	2:B:119:TRP:HB3	1.75	0.69
2:B:187:GLU:HB2	3:C:179:LYS:NZ	2.08	0.69
1:A:182:ASN:CB	5:E:74:LEU:HD13	2.16	0.69
8:2:803:PHE:N	8:2:804:PRO:HA	2.08	0.68
8:2:635:GLY:HA3	11:5:465:GLU:CG	2.23	0.68
11:5:585:ASN:O	11:5:589:GLU:N	2.26	0.68
12:6:416:LYS:HD3	12:6:449:THR:OG1	1.93	0.68
12:6:701:MET:HB2	12:6:705:ILE:HD11	1.74	0.68
1:A:135:CYS:O	1:A:139:THR:HG23	1.93	0.68
1:A:157:PRO:HG3	4:D:138:PHE:CE2	2.28	0.68
4:D:140:ILE:HD12	4:D:141:ARG:N	2.08	0.68
5:E:320:ILE:HG22	5:E:409:PHE:CD1	2.27	0.68
10:4:517:ASP:O	10:4:521:LEU:N	2.25	0.68
11:5:540:ILE:HD12	11:5:547:LEU:CD2	2.22	0.68
11:5:77:LYS:HA	11:5:80:SER:HB2	1.75	0.68
8:2:394:PRO:HB2	12:6:672:LEU:CD2	2.24	0.68
12:6:820:THR:O	12:6:824:ILE:HG12	1.93	0.68
13:7:529:MET:HE1	13:7:537:ILE:HD12	1.75	0.68
1:A:91:ARG:HA	4:D:190:TRP:HH2	1.57	0.68
6:F:23:DT:P	8:2:581:ARG:HE	2.15	0.68
6:F:9:DA:N6	7:G:10:DT:O4	2.17	0.68
8:2:611:LYS:HG2	12:6:650:VAL:HG13	1.73	0.68
9:3:470:VAL:HB	9:3:512:VAL:HG22	1.75	0.68
10:4:747:LEU:O	10:4:751:ILE:HG13	1.93	0.68
13:7:668:ARG:NH2	13:7:685:THR:HA	2.09	0.68
1:A:138:ILE:HA	1:A:141:LEU:HD23	1.75	0.68
5:E:289:ASN:HA	5:E:292:TYR:HE2	1.58	0.68
5:E:433:GLU:N	5:E:433:GLU:OE1	2.24	0.68
5:E:619:LYS:HB3	5:E:633:ARG:HG2	1.74	0.68
5:E:91:ASP:OD2	5:E:93:GLU:HB3	1.93	0.68
8:2:230:ARG:HH12	8:2:243:GLU:HB3	1.59	0.68
8:2:774:ILE:HD11	8:2:827:GLU:CA	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:259:GLN:CG	9:3:271:PRO:HB2	2.23	0.68
11:5:300:ILE:CG2	11:5:324:ARG:HB2	2.23	0.68
11:5:374:ILE:HG23	11:5:428:PHE:CE2	2.29	0.68
3:C:16:PHE:HE2	3:C:48:LEU:HB2	1.57	0.68
8:2:794:ARG:O	8:2:798:ILE:N	2.24	0.68
9:3:24:ARG:NH1	9:3:120:TYR:HB3	2.08	0.68
9:3:32:LEU:O	9:3:36:THR:HA	1.94	0.68
9:3:563:GLU:O	9:3:567:ARG:N	2.23	0.68
10:4:276:ILE:HD11	10:4:303:VAL:HG22	1.76	0.68
11:5:138:ILE:CG2	11:5:332:GLY:HA3	2.22	0.68
12:6:106:VAL:HA	12:6:109:GLU:CB	2.18	0.68
12:6:537:VAL:HG22	12:6:583:GLN:CB	2.24	0.68
12:6:640:GLU:N	12:6:681:ALA:O	2.27	0.68
13:7:251:VAL:HG23	13:7:310:PHE:C	2.14	0.68
13:7:349:VAL:HG23	13:7:382:ARG:O	1.93	0.68
13:7:718:ARG:HA	13:7:721:ARG:NH1	2.09	0.68
4:D:98:ILE:HG21	4:D:129:MET:CG	2.23	0.68
4:D:286:LEU:CD2	4:D:293:LEU:HD21	2.24	0.68
5:E:285:ALA:HB3	5:E:286:GLN:CA	2.22	0.68
5:E:530:LEU:HD22	5:E:536:LEU:HD11	1.76	0.68
8:2:266:GLU:CA	8:2:269:LYS:HB3	2.19	0.68
8:2:484:PHE:HA	8:2:487:ILE:CD1	2.23	0.68
9:3:112:SER:HA	9:3:115:LEU:HD12	1.76	0.68
9:3:339:ARG:H	9:3:340:GLN:CB	2.05	0.68
10:4:231:ASN:O	10:4:234:ARG:HG2	1.93	0.68
11:5:382:GLU:CA	11:5:385:LYS:HB3	2.19	0.68
12:6:293:THR:N	12:6:394:ARG:HG2	2.09	0.68
12:6:690:ASN:HB3	12:6:693:LEU:HG	1.75	0.68
1:A:149:ILE:CG2	1:A:151:LEU:HB3	2.24	0.68
2:B:195:ILE:HD12	2:B:196:HIS:N	2.08	0.68
4:D:79:TYR:HA	4:D:147:ARG:HH12	1.57	0.68
5:E:536:LEU:CD1	5:E:571:SER:HB2	2.23	0.68
6:F:23:DT:H2"	6:F:24:DT:C5	2.29	0.68
8:2:302:THR:HG21	8:2:319:ARG:N	2.07	0.68
8:2:481:GLU:CA	8:2:484:PHE:HB3	2.23	0.68
9:3:403:ILE:HG22	9:3:405:ILE:HD11	1.74	0.68
9:3:470:VAL:O	9:3:513:ILE:N	2.23	0.68
9:3:480:ASP:HA	9:3:483:ARG:CG	2.24	0.68
11:5:540:ILE:HD12	11:5:547:LEU:HD23	1.73	0.68
11:5:588:GLU:O	11:5:593:GLU:N	2.27	0.68
12:6:111:VAL:HG13	12:6:166:LEU:HG	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:395:CYS:SG	12:6:461:SER:HA	2.34	0.68
12:6:530:VAL:HA	12:6:533:ILE:CD1	2.23	0.68
1:A:82:ASN:O	1:A:86:LEU:HG	1.93	0.68
2:B:180:GLU:OE1	3:C:187:THR:HG21	1.93	0.68
4:D:258:VAL:HA	4:D:259:THR:HG23	1.74	0.68
5:E:377:TRP:O	5:E:385:LYS:NZ	2.24	0.68
5:E:620:VAL:CG2	5:E:632:ILE:HD13	2.24	0.68
8:2:208:ALA:HA	8:2:211:LEU:HG	1.76	0.68
8:2:578:ALA:CB	8:2:593:GLY:HA2	2.16	0.68
9:3:330:HIS:CD2	9:3:338:ALA:HA	2.29	0.68
11:5:532:ASP:OD2	11:5:557:LYS:NZ	2.25	0.68
11:5:594:ILE:HG12	11:5:599:MET:HE3	1.74	0.68
13:7:146:ARG:NH2	13:7:303:ARG:O	2.26	0.68
5:E:43:LYS:CG	5:E:484:LEU:HD21	2.23	0.68
8:2:333:GLN:N	8:2:383:ARG:O	2.27	0.68
8:2:394:PRO:HA	8:2:397:VAL:CG2	2.24	0.68
8:2:409:ILE:HB	8:2:452:GLU:CB	2.23	0.68
9:3:119:ALA:HB1	9:3:222:THR:CG2	2.17	0.68
10:4:224:LEU:HD11	10:4:227:ILE:CB	2.24	0.68
10:4:234:ARG:HB3	10:4:280:MET:CE	2.23	0.68
10:4:377:ASN:CB	10:4:378:GLU:CA	2.72	0.68
12:6:308:SER:HA	12:6:319:ASP:HA	1.74	0.68
9:3:211:TYR:CD1	13:7:8:ILE:HD12	2.29	0.68
1:A:83:LYS:HE3	4:D:206:LEU:HB3	1.76	0.68
1:A:32:TYR:HA	1:A:93:ARG:HH12	1.58	0.68
4:D:224:TRP:O	4:D:280:GLU:N	2.27	0.68
8:2:311:GLU:HB2	8:2:314:LEU:HD23	1.75	0.68
9:3:27:ARG:NE	9:3:107:ASP:OD2	2.26	0.68
10:4:224:LEU:CD1	10:4:227:ILE:H	2.07	0.68
10:4:559:ARG:CZ	10:4:668:ARG:HD3	2.23	0.68
11:5:164:GLY:N	11:5:292:VAL:O	2.27	0.68
11:5:504:ILE:HG22	11:5:506:LYS:H	1.59	0.68
12:6:189:VAL:HG21	12:6:263:PHE:CE2	2.29	0.68
12:6:290:ILE:O	12:6:397:PHE:N	2.27	0.68
12:6:765:LEU:HB2	12:6:819:ILE:HD13	1.74	0.68
13:7:225:LEU:HB2	13:7:241:VAL:HG12	1.76	0.68
13:7:633:VAL:HG12	13:7:638:MET:HB2	1.76	0.68
1:A:184:ILE:HD11	5:E:73:GLN:HE22	1.59	0.68
1:A:26:ASP:O	1:A:27:VAL:HG12	1.93	0.68
3:C:12:ASP:HB3	3:C:49:TRP:H	1.59	0.68
4:D:73:SER:OG	4:D:150:LYS:NZ	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:327:ARG:HB3	8:2:388:VAL:HG13	1.75	0.67
8:2:776:PRO:HD3	8:2:822:LYS:HG2	1.76	0.67
9:3:301:LEU:HA	11:5:245:HIS:CD2	2.29	0.67
11:5:293:THR:OG1	11:5:334:GLN:O	2.12	0.67
11:5:370:LEU:HD11	11:5:599:MET:HE1	1.76	0.67
12:6:274:HIS:CG	12:6:288:LEU:HD11	2.29	0.67
12:6:377:LEU:HD22	12:6:452:ILE:CG2	2.24	0.67
13:7:128:PRO:HB2	13:7:129:THR:C	2.15	0.67
2:B:184:PHE:O	2:B:188:ILE:HG13	1.94	0.67
5:E:382:HIS:HB2	11:5:77:LYS:HZ2	1.58	0.67
6:F:18:DT:H2"	6:F:19:DT:C5	2.29	0.67
8:2:212:LYS:CE	8:2:274:VAL:HB	2.15	0.67
8:2:580:VAL:HG21	8:2:592:GLU:H	1.59	0.67
8:2:783:MET:SD	8:2:834:LEU:HD11	2.34	0.67
10:4:417:LEU:HD13	10:4:419:VAL:HG13	1.76	0.67
11:5:550:PHE:CB	11:5:553:ILE:HD11	2.25	0.67
12:6:304:LEU:HA	12:6:353:PHE:CE1	2.29	0.67
12:6:532:SER:HB3	12:6:745:PRO:HG2	1.75	0.67
8:2:554:LYS:HE2	12:6:658:GLN:NE2	2.10	0.67
13:7:258:ILE:HD12	13:7:271:GLN:HE21	1.59	0.67
1:A:159:SER:O	1:A:163:ILE:HD11	1.93	0.67
1:A:5:LEU:HA	1:A:8:LYS:HG2	1.74	0.67
9:3:441:GLY:HA3	9:3:462:MET:CB	2.19	0.67
12:6:186:ARG:HG2	12:6:263:PHE:CE2	2.29	0.67
13:7:367:LYS:CA	13:7:368:ALA:HB3	2.24	0.67
1:A:127:GLU:OE1	4:D:193:LEU:HD11	1.94	0.67
1:A:170:ASP:HB3	1:A:204:TYR:HD1	1.60	0.67
5:E:64:TYR:HB2	5:E:625:PHE:CA	2.24	0.67
8:2:229:ALA:HA	8:2:232:ARG:CG	2.24	0.67
8:2:254:ALA:O	8:2:258:LEU:N	2.25	0.67
8:2:426:VAL:HB	8:2:453:ALA:CB	2.24	0.67
8:2:612:MET:CE	8:2:620:ILE:HD11	2.24	0.67
12:6:692:LYS:HA	12:6:840:VAL:HG12	1.75	0.67
12:6:777:TYR:CZ	12:6:781:ARG:HD3	2.29	0.67
13:7:231:LYS:HG3	13:7:233:ASP:H	1.59	0.67
13:7:485:GLY:N	13:7:524:ASP:O	2.27	0.67
13:7:529:MET:CE	13:7:537:ILE:HD12	2.25	0.67
10:4:718:ARG:HG3	13:7:661:VAL:HG11	1.75	0.67
3:C:90:THR:HG23	9:3:104:ARG:NH1	2.09	0.67
4:D:212:THR:HB	4:D:214:GLY:N	2.10	0.67
2:B:11:PHE:HA	4:D:71:ARG:NH1	2.07	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:516:LYS:CE	5:E:518:LEU:HD11	2.24	0.67
5:E:634:ARG:HA	5:E:637:LEU:CD2	2.24	0.67
8:2:574:VAL:HG23	8:2:575:GLY:N	2.07	0.67
8:2:774:ILE:HD11	8:2:827:GLU:HA	1.75	0.67
9:3:382:LEU:HA	9:3:385:LEU:HG	1.77	0.67
9:3:445:ALA:HA	9:3:457:LEU:HD22	1.77	0.67
10:4:762:ILE:HD11	12:6:736:MET:CE	2.24	0.67
1:A:173:GLU:HG3	1:A:180:VAL:HB	1.77	0.67
5:E:323:ASP:N	5:E:406:ARG:O	2.26	0.67
5:E:624:ASN:CB	5:E:629:ILE:HG23	2.23	0.67
8:2:428:GLY:CA	8:2:453:ALA:HA	2.24	0.67
8:2:569:GLN:HG2	8:2:570:GLY:H	1.60	0.67
9:3:254:GLN:CB	9:3:283:VAL:HG22	2.25	0.67
9:3:472:ILE:HB	9:3:514:ALA:CB	2.24	0.67
10:4:435:VAL:CG2	10:4:466:VAL:HG13	2.25	0.67
10:4:602:THR:HA	10:4:619:GLY:HA3	1.75	0.67
11:5:148:LEU:HB3	11:5:260:GLU:HB3	1.76	0.67
11:5:175:ARG:O	11:5:251:ILE:N	2.24	0.67
11:5:50:LEU:HD11	11:5:98:ALA:HB2	1.77	0.67
12:6:690:ASN:HB3	12:6:693:LEU:CD1	2.25	0.67
13:7:208:SER:HB3	13:7:209:GLN:CA	2.25	0.67
13:7:311:GLN:O	13:7:335:VAL:N	2.28	0.67
13:7:455:ASN:ND2	13:7:541:MET:SD	2.67	0.67
5:E:268:SER:O	5:E:272:LEU:HG	1.94	0.67
8:2:427:THR:O	8:2:454:ASN:N	2.27	0.67
9:3:562:SER:O	9:3:566:LEU:HG	1.95	0.67
11:5:170:SER:O	11:5:254:GLN:NE2	2.27	0.67
11:5:61:LEU:O	11:5:138:ILE:N	2.23	0.67
12:6:305:TYR:HE2	12:6:354:LEU:HG	1.55	0.67
13:7:143:LEU:HD11	13:7:197:THR:CG2	2.24	0.67
13:7:456:VAL:HB	13:7:564:LEU:HD12	1.75	0.67
3:C:101:ASN:HB2	3:C:102:SER:C	2.14	0.67
8:2:257:ALA:HA	8:2:260:LEU:HD12	1.76	0.67
9:3:661:GLN:HA	9:3:664:LYS:HD3	1.76	0.67
10:4:523:ALA:HA	10:4:526:ILE:HD12	1.77	0.67
11:5:29:LYS:O	11:5:33:ASN:N	2.28	0.67
11:5:439:THR:O	11:5:479:ILE:HA	1.94	0.67
11:5:500:GLN:HB3	11:5:515:SER:O	1.95	0.67
11:5:349:PHE:HB3	11:5:601:ARG:NH2	2.08	0.67
12:6:558:SER:CB	12:6:559:THR:CA	2.73	0.67
13:7:660:VAL:HG22	13:7:713:VAL:HG11	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:100:MET:CG	1:A:104:ASN:HD21	1.99	0.67
1:A:47:LEU:CD2	1:A:75:THR:HB	2.13	0.67
2:B:95:THR:OG1	2:B:144:LYS:HG3	1.95	0.67
5:E:328:LEU:HD11	5:E:500:GLN:HG2	1.77	0.67
5:E:559:SER:HB2	5:E:560:GLU:O	1.95	0.67
5:E:564:LEU:HB3	5:E:586:PRO:HB2	1.76	0.67
5:E:620:VAL:HG22	5:E:632:ILE:HD13	1.76	0.67
8:2:243:GLU:OE2	8:2:298:SER:OG	2.13	0.67
9:3:100:LEU:CG	9:3:157:PHE:HB3	2.24	0.67
9:3:372:TYR:OH	9:3:564:HIS:HB3	1.95	0.67
10:4:248:LEU:HD22	10:4:254:THR:HB	1.76	0.67
10:4:456:LEU:HB2	13:7:254:ALA:CB	2.25	0.67
10:4:826:VAL:O	10:4:830:ARG:HG2	1.95	0.67
12:6:608:LEU:HA	12:6:627:ALA:HB3	1.76	0.67
10:4:458:LYS:HA	13:7:252:LYS:NZ	2.10	0.67
13:7:357:PRO:HA	13:7:374:THR:CA	2.20	0.67
1:A:16:THR:HA	1:A:19:LEU:HD12	1.75	0.67
2:B:115:LEU:HD22	2:B:119:TRP:NE1	2.10	0.67
4:D:79:TYR:CE2	4:D:81:HIS:HB3	2.29	0.67
5:E:278:THR:HA	5:E:281:ASP:OD2	1.95	0.67
5:E:612:ILE:HG21	5:E:640:PHE:CD1	2.30	0.67
6:F:21:DT:H5"	11:5:506:LYS:CD	2.25	0.67
8:2:419:LYS:HG2	8:2:420:PRO:HD2	1.77	0.67
10:4:342:MET:HG3	12:6:417:PRO:HG3	1.76	0.67
10:4:505:ASP:HB2	10:4:746:PHE:HE1	1.60	0.67
10:4:607:ARG:CB	10:4:614:LEU:HD23	2.24	0.67
10:4:727:LEU:N	10:4:728:TYR:HB3	2.10	0.67
11:5:181:ILE:HD13	11:5:207:LEU:CD2	2.25	0.67
11:5:175:ARG:HB2	11:5:251:ILE:CG1	2.25	0.67
11:5:162:LEU:N	11:5:294:ILE:O	2.26	0.67
11:5:44:PHE:CE1	11:5:47:ARG:HB3	2.30	0.67
11:5:455:ARG:HH12	11:5:460:ARG:HD2	1.60	0.67
11:5:525:PRO:CB	11:5:539:ASN:HD21	2.07	0.67
11:5:630:ARG:HE	11:5:648:ILE:HG21	1.60	0.67
3:C:112:ILE:HD12	3:C:120:LEU:HD11	1.76	0.67
2:B:184:PHE:CZ	3:C:136:ASN:HB2	2.29	0.67
4:D:137:LYS:HG2	4:D:141:ARG:NH1	2.10	0.67
5:E:5:ILE:HG12	5:E:142:CYS:SG	2.35	0.67
5:E:71:TYR:CD2	5:E:96:LEU:HD22	2.29	0.67
8:2:486:LYS:O	8:2:489:ARG:HG2	1.95	0.66
9:3:275:ASP:O	9:3:320:LEU:HB2	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:354:GLU:O	11:5:358:LEU:HG	1.95	0.66
11:5:371:THR:O	11:5:385:LYS:NZ	2.22	0.66
11:5:75:ILE:O	11:5:79:LEU:N	2.27	0.66
12:6:153:ILE:HD11	12:6:267:PHE:CD1	2.29	0.66
12:6:585:LEU:HD22	12:6:637:CYS:CB	2.25	0.66
12:6:691:ARG:NH1	12:6:716:LEU:HD22	2.09	0.66
13:7:327:ILE:HG23	13:7:328:PRO:HD2	1.76	0.66
13:7:493:LEU:HB2	13:7:513:LEU:CG	2.24	0.66
5:E:151:THR:HB	5:E:152:LEU:C	2.15	0.66
8:2:246:TYR:CE1	8:2:257:ALA:HB1	2.31	0.66
8:2:322:GLY:HA3	8:2:390:LEU:CD2	2.16	0.66
8:2:501:MET:HE1	8:2:516:ALA:HB2	1.75	0.66
8:2:540:LEU:O	8:2:681:CYS:N	2.28	0.66
9:3:386:MET:HB3	9:3:714:LYS:CD	2.15	0.66
9:3:48:TYR:O	9:3:52:ASN:ND2	2.28	0.66
9:3:270:LEU:HD21	11:5:464:LEU:CD2	2.26	0.66
11:5:677:VAL:HG12	11:5:681:ILE:CD1	2.25	0.66
12:6:551:MET:CA	12:6:635:ILE:HD11	2.24	0.66
13:7:613:ALA:O	13:7:617:THR:HG23	1.95	0.66
1:A:148:ASP:O	4:D:141:ARG:NH2	2.28	0.66
1:A:107:LEU:HD21	1:A:153:GLY:CA	2.25	0.66
2:B:50:TRP:N	2:B:51:GLN:HA	2.09	0.66
4:D:98:ILE:CG2	4:D:129:MET:HG2	2.25	0.66
5:E:287:VAL:O	5:E:290:ARG:HG2	1.95	0.66
8:2:338:LYS:O	8:2:375:VAL:HA	1.96	0.66
8:2:484:PHE:HA	8:2:487:ILE:HD12	1.76	0.66
8:2:566:ALA:O	8:2:572:SER:HB2	1.94	0.66
8:2:584:PRO:HB2	8:2:585:ILE:CB	2.26	0.66
9:3:389:VAL:HG23	9:3:714:LYS:CE	2.25	0.66
10:4:656:ILE:HG23	10:4:658:LYS:HG2	1.77	0.66
11:5:46:TYR:OH	11:5:64:ASN:N	2.15	0.66
12:6:558:SER:HB3	12:6:559:THR:CA	2.17	0.66
12:6:773:LEU:HD21	12:6:800:LEU:CD1	2.26	0.66
13:7:493:LEU:HD22	13:7:513:LEU:HD11	1.76	0.66
13:7:519:GLY:O	13:7:562:SER:N	2.27	0.66
1:A:149:ILE:HG23	1:A:151:LEU:HB3	1.77	0.66
2:B:112:PHE:HB3	2:B:152:ARG:NH1	2.10	0.66
4:D:147:ARG:O	4:D:151:ILE:HG12	1.95	0.66
4:D:191:LEU:HA	4:D:194:VAL:CG1	2.25	0.66
5:E:272:LEU:O	5:E:276:GLY:N	2.19	0.66
8:2:584:PRO:HB2	8:2:585:ILE:CG1	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:110:PHE:CE2	9:3:114:ILE:HD11	2.30	0.66
10:4:581:VAL:HA	10:4:584:ILE:HG12	1.75	0.66
11:5:166:ILE:HA	11:5:258:LEU:HA	1.76	0.66
11:5:439:THR:HA	11:5:444:SER:OG	1.96	0.66
11:5:622:LEU:HD21	11:5:681:ILE:HD11	1.75	0.66
12:6:182:GLN:HA	12:6:185:LEU:HB3	1.78	0.66
13:7:240:THR:CG2	13:7:352:THR:HG22	2.25	0.66
13:7:78:VAL:O	13:7:203:TYR:N	2.23	0.66
2:B:182:ARG:HA	4:D:229:PHE:HZ	1.59	0.66
5:E:557:ALA:HA	5:E:560:GLU:CG	2.25	0.66
9:3:350:ILE:HG13	9:3:659:TYR:HD1	1.61	0.66
10:4:522:LEU:O	10:4:526:ILE:HG13	1.95	0.66
11:5:453:VAL:HB	11:5:506:LYS:HD3	1.75	0.66
12:6:151:ILE:HD13	12:6:153:ILE:CG2	2.24	0.66
12:6:390:LYS:HD2	12:6:391:PRO:HD2	1.77	0.66
3:C:19:LYS:HE3	3:C:73:GLU:HG2	1.78	0.66
3:C:48:LEU:O	3:C:52:ARG:N	2.29	0.66
1:A:161:VAL:HG21	4:D:127:LEU:HD21	1.76	0.66
5:E:92:LEU:HA	5:E:95:PHE:CB	2.16	0.66
8:2:317:LEU:CA	8:2:429:ILE:HG22	2.26	0.66
9:3:100:LEU:HB2	9:3:160:SER:CB	2.26	0.66
9:3:161:PHE:HB3	9:3:162:GLY:HA3	1.76	0.66
10:4:243:LEU:HD22	10:4:305:PRO:CA	2.25	0.66
10:4:343:LYS:N	10:4:360:ILE:HD13	2.10	0.66
10:4:713:ASP:CB	10:4:716:ASN:HB2	2.26	0.66
11:5:84:SER:HA	11:5:87:ILE:CD1	2.26	0.66
12:6:104:ASP:HB3	12:6:176:ARG:HH11	1.60	0.66
10:4:451:ARG:HE	12:6:445:VAL:HG21	1.60	0.66
13:7:335:VAL:CG1	13:7:340:VAL:HA	2.26	0.66
13:7:529:MET:HE2	13:7:533:ASP:HB3	1.77	0.66
13:7:670:ASP:CA	13:7:673:ARG:HG2	2.22	0.66
1:A:175:GLN:HB2	1:A:180:VAL:HA	1.76	0.66
2:B:7:LEU:CD2	2:B:10:THR:HG23	2.25	0.66
4:D:57:GLN:O	4:D:61:SER:N	2.28	0.66
5:E:51:LYS:NZ	5:E:264:GLU:OE2	2.27	0.66
5:E:522:LEU:HD11	5:E:527:LEU:CD1	2.26	0.66
5:E:581:VAL:HB	5:E:630:ILE:HG13	1.78	0.66
9:3:203:ALA:O	9:3:207:GLY:N	2.28	0.66
10:4:226:TYR:O	10:4:230:LEU:N	2.22	0.66
10:4:344:VAL:HG13	10:4:359:GLU:HA	1.78	0.66
10:4:625:ASP:OD1	10:4:668:ARG:N	2.27	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:758:ILE:HD11	10:4:813:LEU:CD2	2.21	0.66
11:5:292:VAL:CG2	11:5:294:ILE:HD11	2.22	0.66
11:5:411:ASN:ND2	11:5:549:ARG:O	2.25	0.66
11:5:568:ILE:HA	11:5:571:HIS:HB3	1.76	0.66
12:6:189:VAL:HG13	12:6:193:ALA:HB3	1.77	0.66
12:6:544:LYS:HA	12:6:547:ILE:HD12	1.77	0.66
12:6:653:HIS:NE2	12:6:704:PRO:HB2	2.09	0.66
13:7:518:ASN:N	13:7:560:ARG:HB2	2.10	0.66
13:7:648:LYS:HB3	13:7:706:ASP:OD1	1.95	0.66
1:A:149:ILE:CA	1:A:150:ASP:HB2	2.24	0.66
1:A:16:THR:HA	1:A:19:LEU:CB	2.23	0.66
2:B:148:LEU:HA	2:B:151:ILE:HD11	1.77	0.66
5:E:137:SER:HA	5:E:140:ILE:HD12	1.76	0.66
5:E:8:PHE:CB	5:E:258:LEU:HD12	2.25	0.66
5:E:92:LEU:HD23	5:E:96:LEU:HD11	1.77	0.66
8:2:246:TYR:N	8:2:298:SER:HB2	2.11	0.66
10:4:281:VAL:HG22	10:4:297:GLU:CG	2.26	0.66
10:4:621:LEU:HD21	10:4:645:LEU:HD21	1.78	0.66
11:5:256:LEU:CD1	11:5:278:CYS:HB2	2.25	0.66
11:5:375:ALA:HA	11:5:378:ILE:HD13	1.77	0.66
11:5:663:LEU:HB3	11:5:676:HIS:NE2	2.10	0.66
12:6:363:GLU:HB3	12:6:374:PRO:CB	2.26	0.66
1:A:113:ILE:H	1:A:113:ILE:HD12	1.61	0.66
3:C:18:CYS:HB3	3:C:74:LEU:HD23	1.77	0.66
5:E:316:LEU:CD1	5:E:414:GLY:HA3	2.24	0.66
5:E:470:ARG:NH2	5:E:631:GLU:OE2	2.28	0.66
8:2:777:LYS:HB3	11:5:577:THR:HG21	1.76	0.66
9:3:389:VAL:HB	9:3:710:THR:HG21	1.77	0.66
10:4:437:GLY:HA2	10:4:464:VAL:CG2	2.26	0.66
11:5:43:GLN:NE2	11:5:44:PHE:O	2.25	0.66
11:5:685:GLN:O	11:5:689:MET:HG2	1.95	0.66
11:5:421:ALA:N	14:5:801:ATP:O2B	2.29	0.66
12:6:108:GLY:HA3	12:6:180:PHE:CE2	2.30	0.66
12:6:417:PRO:HG2	12:6:448:LEU:HD21	1.77	0.66
12:6:533:ILE:CG1	12:6:548:LEU:HD11	2.26	0.66
12:6:656:MET:CB	12:6:708:ARG:HG2	2.19	0.66
12:6:833:GLN:O	12:6:837:ARG:HG3	1.96	0.66
1:A:149:ILE:HD13	4:D:144:ILE:CD1	2.25	0.66
2:B:51:GLN:HB2	2:B:52:LEU:C	2.17	0.66
3:C:105:PHE:HB2	3:C:172:MET:SD	2.35	0.66
4:D:205:GLU:N	4:D:205:GLU:OE1	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:86:ARG:O	4:D:90:ARG:N	2.27	0.66
5:E:632:ILE:HG13	5:E:637:LEU:HB3	1.77	0.66
6:F:23:DT:H2'	6:F:23:DT:OP2	1.96	0.66
8:2:330:VAL:HG21	8:2:416:ASP:HB2	1.78	0.66
9:3:231:TYR:CE2	9:3:243:THR:HG22	2.31	0.66
9:3:294:VAL:HG13	9:3:326:VAL:HG22	1.76	0.66
9:3:455:ARG:NH2	9:3:500:ALA:HB3	2.11	0.66
10:4:239:SER:OG	10:4:240:ASN:N	2.28	0.66
10:4:308:VAL:HG21	10:4:325:LEU:CB	2.25	0.66
11:5:467:GLY:O	11:5:471:LEU:HG	1.96	0.66
9:3:570:ARG:HA	11:5:613:ARG:NH2	2.11	0.66
10:4:661:ILE:HG12	12:6:391:PRO:HB2	1.77	0.66
12:6:659:GLN:HG3	12:6:674:ALA:O	1.96	0.66
8:2:574:VAL:HA	12:6:664:ALA:HB3	1.78	0.66
13:7:374:THR:OG1	13:7:375:TYR:N	2.24	0.66
1:A:145:ASP:CA	1:A:146:LEU:HB3	2.25	0.66
2:B:148:LEU:HA	2:B:151:ILE:CG1	2.25	0.66
2:B:5:ALA:O	2:B:8:GLN:HB3	1.95	0.66
5:E:120:ILE:HD13	5:E:139:ILE:CG2	2.26	0.66
8:2:274:VAL:HA	8:2:277:GLU:HG2	1.77	0.65
9:3:447:THR:CG2	9:3:455:ARG:HE	2.10	0.65
12:6:802:SER:CA	12:6:805:ARG:HG2	2.23	0.65
9:3:680:VAL:HG12	13:7:610:GLU:OE1	1.96	0.65
13:7:689:LEU:HD12	13:7:692:ILE:CG2	2.25	0.65
1:A:196:VAL:HG13	1:A:205:LEU:HD13	1.76	0.65
4:D:198:ILE:HG13	4:D:199:LEU:HG	1.78	0.65
6:F:16:DT:H2''	6:F:17:DT:H5''	1.77	0.65
8:2:562:ARG:HG2	8:2:599:ALA:HB1	1.77	0.65
8:2:581:ARG:CD	8:2:634:ALA:HB2	2.16	0.65
8:2:838:ILE:O	8:2:842:VAL:HG23	1.96	0.65
9:3:445:ALA:HB2	9:3:499:LYS:HD2	1.78	0.65
10:4:203:TYR:O	10:4:207:LYS:NZ	2.19	0.65
10:4:563:ASN:OD1	10:4:671:ILE:N	2.29	0.65
1:A:185:LYS:HD2	1:A:186:ASP:N	2.11	0.65
2:B:90:PRO:HD2	2:B:93:LEU:HD13	1.77	0.65
4:D:216:VAL:H	4:D:217:ASN:HB3	1.60	0.65
4:D:269:LEU:HD13	4:D:275:TYR:CD2	2.30	0.65
10:4:197:PHE:CZ	10:4:248:LEU:HD23	2.31	0.65
10:4:339:ILE:HB	10:4:394:LYS:O	1.97	0.65
10:4:758:ILE:HD13	10:4:813:LEU:HA	1.79	0.65
12:6:576:ASP:O	12:6:579:THR:OG1	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:765:LEU:HB2	12:6:819:ILE:CD1	2.26	0.65
13:7:409:ASP:OD2	13:7:413:ARG:N	2.29	0.65
2:B:95:THR:HB	2:B:141:LEU:HG	1.78	0.65
5:E:134:ILE:HD11	5:E:144:ASP:OD2	1.96	0.65
5:E:67:LEU:O	5:E:71:TYR:N	2.28	0.65
8:2:335:LYS:HB2	8:2:382:TYR:HA	1.78	0.65
8:2:659:SER:HA	10:4:928:ARG:CZ	2.26	0.65
9:3:503:HIS:O	13:7:316:GLN:NE2	2.25	0.65
10:4:770:LEU:HD11	10:4:801:MET:CB	2.25	0.65
11:5:176:ALA:O	11:5:194:ILE:HG12	1.96	0.65
8:2:632:SER:O	11:5:448:GLY:HA2	1.96	0.65
11:5:610:CYS:SG	11:5:665:LYS:HG3	2.36	0.65
12:6:586:LYS:HA	12:6:589:VAL:HG12	1.78	0.65
8:2:394:PRO:HB2	12:6:672:LEU:HD21	1.78	0.65
13:7:512:ALA:O	13:7:516:ALA:N	2.28	0.65
13:7:664:TYR:CD1	13:7:689:LEU:HD22	2.31	0.65
1:A:166:ARG:NH1	1:A:188:GLN:OE1	2.30	0.65
3:C:27:LEU:HD23	3:C:29:TYR:N	2.09	0.65
4:D:259:THR:HG21	4:D:268:GLU:CB	2.26	0.65
8:2:562:ARG:NH1	8:2:599:ALA:HA	2.09	0.65
3:C:86:ASN:HB2	9:3:104:ARG:NH2	2.12	0.65
9:3:231:TYR:HE2	9:3:243:THR:HG22	1.61	0.65
9:3:156:SER:CB	9:3:325:THR:HG22	2.19	0.65
9:3:716:ARG:HH22	9:3:724:VAL:HB	1.61	0.65
10:4:330:GLY:HA3	10:4:401:GLU:HA	1.76	0.65
10:4:634:PHE:CZ	10:4:698:LEU:HD11	2.31	0.65
12:6:517:LYS:O	12:6:521:LYS:HG2	1.96	0.65
13:7:689:LEU:HA	13:7:692:ILE:CG2	2.27	0.65
1:A:16:THR:CA	1:A:19:LEU:HB2	2.26	0.65
5:E:25:CYS:CB	5:E:26:GLN:HA	2.09	0.65
5:E:536:LEU:HA	5:E:539:TYR:CD2	2.30	0.65
8:2:580:VAL:HG21	8:2:591:LEU:HG	1.77	0.65
8:2:624:MET:HG2	8:2:646:ILE:CD1	2.26	0.65
8:2:663:LEU:HA	8:2:666:ASN:CB	2.26	0.65
8:2:621:HIS:CD2	8:2:673:ILE:HA	2.29	0.65
8:2:548:ALA:HB2	14:2:901:ATP:C5	2.32	0.65
9:3:367:LEU:HD11	9:3:382:LEU:HD13	1.78	0.65
10:4:332:VAL:HB	10:4:429:ALA:CA	2.22	0.65
10:4:442:ILE:HG23	10:4:443:PRO:HD2	1.78	0.65
12:6:355:ASP:CB	12:6:356:TRP:CA	2.75	0.65
13:7:287:GLU:HA	13:7:290:SER:HB2	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:228:ARG:HH22	13:7:327:ILE:H	1.44	0.65
13:7:659:TYR:CD2	13:7:710:ILE:HD11	2.31	0.65
2:B:17:GLN:O	2:B:21:GLU:HG3	1.97	0.65
2:B:21:GLU:HA	2:B:73:LEU:HD23	1.78	0.65
5:E:81:LEU:HD13	5:E:82:LEU:N	2.12	0.65
9:3:405:ILE:HG23	9:3:545:LEU:O	1.97	0.65
9:3:408:VAL:HG13	9:3:548:VAL:HA	1.79	0.65
10:4:407:PRO:HG2	10:4:410:GLN:HB3	1.79	0.65
11:5:144:ASN:H	11:5:161:ARG:NH1	1.94	0.65
12:6:178:LEU:N	12:6:179:PRO:HD2	2.12	0.65
12:6:711:LEU:HD23	12:6:834:SER:CB	2.24	0.65
12:6:751:LEU:O	12:6:755:ILE:HG13	1.97	0.65
13:7:444:VAL:CG2	13:7:448:MET:H	2.10	0.65
13:7:491:VAL:HA	13:7:494:THR:HG22	1.78	0.65
13:7:605:SER:HB2	13:7:608:ASP:HB2	1.78	0.65
2:B:185:ILE:H	2:B:185:ILE:HD12	1.62	0.65
3:C:84:VAL:O	3:C:88:ILE:HG23	1.96	0.65
4:D:278:ARG:HB2	4:D:281:VAL:HG12	1.78	0.65
4:D:232:VAL:HA	4:D:291:VAL:HG23	1.79	0.65
5:E:25:CYS:HB3	5:E:26:GLN:CA	2.21	0.65
5:E:536:LEU:HD13	5:E:539:TYR:HD2	1.61	0.65
8:2:323:VAL:N	8:2:391:GLN:O	2.29	0.65
8:2:546:GLY:HA2	12:6:798:ARG:NH1	2.12	0.65
9:3:237:GLU:OE1	9:3:237:GLU:N	2.20	0.65
9:3:407:MET:SD	9:3:418:LEU:HD23	2.36	0.65
9:3:730:ALA:O	9:3:734:ARG:HG2	1.97	0.65
10:4:419:VAL:CB	10:4:463:VAL:HG21	2.26	0.65
10:4:695:PRO:HG2	10:4:698:LEU:CB	2.26	0.65
11:5:151:LEU:HB3	11:5:298:TYR:CE1	2.31	0.65
11:5:464:LEU:HD21	11:5:466:GLY:HA2	1.79	0.65
11:5:594:ILE:CG2	11:5:599:MET:HB2	2.27	0.65
12:6:531:ARG:HG3	12:6:745:PRO:CD	2.27	0.65
12:6:696:ARG:NE	12:6:703:ALA:HB2	2.12	0.65
12:6:778:LYS:HG2	12:6:782:LYS:NZ	2.12	0.65
13:7:149:ARG:HG3	13:7:153:MET:HE3	1.79	0.65
13:7:429:LYS:HA	13:7:432:LEU:HD12	1.78	0.65
1:A:9:LEU:O	1:A:13:ALA:N	2.27	0.65
8:2:424:VAL:CG2	8:2:456:ILE:HG23	2.27	0.65
10:4:291:TYR:HB3	10:4:296:ILE:HG21	1.77	0.65
10:4:564:ILE:HG23	10:4:704:LEU:O	1.96	0.65
12:6:571:ILE:O	12:6:679:LEU:HG	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:633:ASN:N	12:6:675:ARG:O	2.21	0.65
12:6:791:SER:CB	12:6:838:VAL:HB	2.27	0.65
13:7:138:VAL:HA	13:7:141:VAL:HG22	1.79	0.65
13:7:77:SER:HB3	13:7:338:THR:CB	2.26	0.65
2:B:125:ILE:HA	2:B:128:ASN:OD1	1.97	0.65
2:B:50:TRP:N	2:B:51:GLN:OE1	2.30	0.65
3:C:98:HIS:HA	3:C:102:SER:CB	2.27	0.65
4:D:171:LEU:O	4:D:180:ILE:HG21	1.97	0.65
5:E:529:VAL:HG23	5:E:570:ALA:HB3	1.79	0.65
5:E:75:ASP:CB	5:E:118:ARG:HH12	2.09	0.65
8:2:242:LEU:O	8:2:295:VAL:HA	1.97	0.65
8:2:579:SER:CA	8:2:633:LYS:HD2	2.24	0.65
10:4:441:SER:CB	10:4:459:THR:HG22	2.26	0.65
10:4:649:MET:CE	10:4:701:ARG:HG2	2.27	0.65
10:4:798:LEU:HA	10:4:801:MET:CE	2.25	0.65
10:4:830:ARG:HD3	10:4:833:ILE:CD1	2.26	0.65
10:4:712:VAL:HG13	13:7:668:ARG:HG3	1.78	0.65
2:B:122:LEU:O	2:B:126:LEU:N	2.21	0.65
5:E:259:LEU:HD23	5:E:264:GLU:O	1.97	0.65
8:2:208:ALA:HA	8:2:211:LEU:CG	2.27	0.64
9:3:413:THR:HG21	9:3:549:VAL:HG21	1.79	0.64
10:4:564:ILE:HG12	10:4:704:LEU:HB3	1.78	0.64
10:4:631:ILE:HB	10:4:673:ALA:CA	2.26	0.64
10:4:824:GLU:HA	10:4:827:ARG:CB	2.24	0.64
11:5:420:THR:CG2	11:5:556:VAL:HG21	2.28	0.64
12:6:335:ASN:N	12:6:336:PRO:HA	2.12	0.64
12:6:542:ALA:HA	12:6:545:LYS:NZ	2.12	0.64
13:7:440:VAL:HG21	13:7:649:ARG:HA	1.79	0.64
13:7:546:ILE:N	13:7:557:LEU:O	2.30	0.64
13:7:601:LEU:O	13:7:601:LEU:HD12	1.97	0.64
1:A:168:LEU:HD11	1:A:206:GLN:CG	2.27	0.64
2:B:101:LYS:O	2:B:105:GLU:N	2.30	0.64
2:B:127:PHE:CE2	2:B:142:ARG:HG2	2.32	0.64
5:E:122:VAL:O	5:E:143:PHE:HB2	1.96	0.64
8:2:216:LEU:HD12	8:2:217:GLU:HB3	1.77	0.64
8:2:496:LYS:HG2	8:2:758:ILE:HD12	1.80	0.64
8:2:584:PRO:CB	8:2:585:ILE:HB	2.27	0.64
10:4:717:ASP:HA	10:4:720:LEU:HB3	1.79	0.64
11:5:179:LEU:HD13	11:5:181:ILE:HG13	1.79	0.64
11:5:639:GLU:HB2	11:5:641:THR:HG23	1.79	0.64
12:6:303:GLU:HB2	12:6:356:TRP:CD1	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:550:GLN:HA	12:6:569:ILE:HG21	1.78	0.64
12:6:733:ASP:HA	12:6:736:MET:HG2	1.78	0.64
1:A:165:VAL:HG11	1:A:205:LEU:CB	2.27	0.64
4:D:66:SER:O	4:D:70:GLU:N	2.30	0.64
6:F:23:DT:H1'	6:F:24:DT:N3	2.12	0.64
8:2:230:ARG:NH1	8:2:243:GLU:O	2.30	0.64
8:2:299:ASP:HA	8:2:319:ARG:NH2	2.11	0.64
8:2:501:MET:HE3	8:2:516:ALA:HB2	1.78	0.64
8:2:858:ARG:HA	8:2:861:PHE:CE2	2.33	0.64
9:3:211:TYR:HD2	13:7:6:PRO:HG2	1.62	0.64
10:4:323:ASP:O	10:4:324:LYS:HG3	1.98	0.64
10:4:334:ARG:HH11	10:4:398:LYS:HD3	1.61	0.64
10:4:401:GLU:N	10:4:401:GLU:OE1	2.23	0.64
10:4:600:GLY:HA2	10:4:604:TYR:CE1	2.32	0.64
10:4:722:LYS:HA	10:4:725:THR:HB	1.78	0.64
11:5:181:ILE:HD13	11:5:207:LEU:HD21	1.79	0.64
11:5:437:VAL:HG23	11:5:472:ALA:HB2	1.79	0.64
13:7:656:VAL:O	13:7:660:VAL:HG23	1.96	0.64
3:C:104:PHE:O	3:C:108:ALA:N	2.26	0.64
3:C:7:ASP:HA	3:C:10:LEU:HB3	1.78	0.64
3:C:118:LYS:NZ	3:C:122:ASN:HB2	2.13	0.64
4:D:132:GLU:HA	4:D:135:ARG:HH22	1.61	0.64
5:E:150:ASP:N	5:E:151:THR:HA	2.10	0.64
5:E:288:TYR:HA	5:E:291:LEU:CG	2.27	0.64
5:E:328:LEU:HD13	5:E:500:GLN:HG2	1.79	0.64
5:E:360:HIS:HB2	8:2:236:GLU:CG	2.26	0.64
5:E:553:ILE:HD12	5:E:567:MET:HG2	1.79	0.64
8:2:219:THR:HB	8:2:223:GLY:CA	2.27	0.64
8:2:581:ARG:HG2	8:2:634:ALA:N	2.12	0.64
8:2:520:PHE:CE2	8:2:822:LYS:HB2	2.24	0.64
9:3:557:ARG:O	9:3:561:ILE:HG12	1.98	0.64
10:4:399:LEU:O	10:4:415:ILE:N	2.30	0.64
11:5:594:ILE:HG12	11:5:599:MET:CE	2.28	0.64
12:6:570:ASN:HD21	12:6:678:ILE:HB	1.62	0.64
12:6:695:LEU:HA	12:6:698:ASN:HB3	1.79	0.64
13:7:370:LEU:HD12	13:7:372:THR:HA	1.78	0.64
13:7:426:LEU:O	13:7:430:LYS:N	2.29	0.64
4:D:195:ASN:CA	4:D:199:LEU:HD12	2.25	0.64
4:D:267:VAL:CB	4:D:268:GLU:HA	2.26	0.64
4:D:267:VAL:HB	4:D:268:GLU:CA	2.27	0.64
5:E:149:ASP:H	5:E:150:ASP:HA	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:49:PHE:O	5:E:53:LEU:N	2.30	0.64
5:E:57:GLN:HG3	5:E:59:VAL:HG23	1.79	0.64
8:2:488:SER:HB2	8:2:825:LEU:CD1	2.25	0.64
8:2:580:VAL:CG2	8:2:591:LEU:HG	2.28	0.64
9:3:45:ILE:HG22	9:3:49:ASN:HD21	1.63	0.64
10:4:532:GLU:HG2	10:4:533:LEU:H	1.60	0.64
11:5:146:ILE:HG23	11:5:147:PRO:HD2	1.79	0.64
11:5:389:VAL:HA	11:5:392:LEU:CG	2.27	0.64
11:5:546:ILE:HG22	11:5:550:PHE:CE2	2.33	0.64
12:6:284:ILE:HA	12:6:401:GLU:OE1	1.96	0.64
12:6:361:ILE:HD12	12:6:397:PHE:CE2	2.32	0.64
12:6:695:LEU:HB2	12:6:838:VAL:HA	1.79	0.64
1:A:22:ARG:CB	1:A:23:SER:HA	2.18	0.64
1:A:9:LEU:HD21	1:A:89:TYR:CD1	2.32	0.64
2:B:10:THR:HA	2:B:182:ARG:NH1	2.12	0.64
5:E:285:ALA:CB	5:E:288:TYR:HB3	2.28	0.64
5:E:473:TRP:CH2	5:E:541:ASN:HA	2.33	0.64
8:2:271:PHE:HE2	8:2:295:VAL:HG11	1.63	0.64
9:3:254:GLN:CB	9:3:278:LEU:HB2	2.27	0.64
9:3:437:SER:CB	9:3:438:SER:HA	2.19	0.64
10:4:419:VAL:CG1	10:4:463:VAL:HG21	2.27	0.64
10:4:601:LEU:HA	10:4:620:ALA:HB3	1.80	0.64
11:5:254:GLN:HB3	11:5:278:CYS:HB2	1.79	0.64
12:6:598:THR:HG23	12:6:638:ILE:HG23	1.80	0.64
12:6:638:ILE:HG22	12:6:639:ASP:N	2.12	0.64
10:4:767:LYS:HD3	12:6:736:MET:SD	2.36	0.64
12:6:796:THR:HG22	12:6:798:ARG:N	2.13	0.64
3:C:192:PHE:CZ	11:5:43:GLN:HB2	2.32	0.64
4:D:264:LYS:HG2	4:D:265:GLU:N	2.13	0.64
5:E:8:PHE:CE2	5:E:254:GLN:HB3	2.33	0.64
5:E:472:ARG:O	5:E:476:ASN:N	2.27	0.64
5:E:580:LEU:HD11	5:E:629:ILE:HD11	1.77	0.64
8:2:242:LEU:HD22	8:2:295:VAL:HG12	1.80	0.64
8:2:604:CYS:SG	8:2:646:ILE:HG23	2.38	0.64
9:3:450:ARG:O	9:3:456:ARG:NH1	2.31	0.64
9:3:683:TYR:HA	9:3:686:LEU:HD12	1.78	0.64
10:4:190:CYS:SG	10:4:257:LEU:HD13	2.37	0.64
10:4:608:ASP:HB2	10:4:615:VAL:HG23	1.79	0.64
11:5:411:ASN:CB	11:5:550:PHE:HA	2.27	0.64
12:6:134:LYS:HZ2	12:6:137:ARG:HD2	1.63	0.64
12:6:164:GLY:O	12:6:168:MET:N	2.29	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:292:GLY:HA3	12:6:361:ILE:HD11	1.80	0.64
12:6:310:THR:C	12:6:345:THR:H	2.00	0.64
12:6:586:LYS:HA	12:6:589:VAL:CG1	2.28	0.64
12:6:611:ALA:H	12:6:624:GLU:HG2	1.62	0.64
8:2:546:GLY:HA2	12:6:798:ARG:HH12	1.61	0.64
10:4:184:ASN:HB3	13:7:145:GLN:HE22	1.61	0.64
13:7:518:ASN:HB2	13:7:560:ARG:NE	2.11	0.64
5:E:298:GLU:OE1	5:E:301:ARG:NH1	2.30	0.64
5:E:41:ALA:HB1	5:E:255:ILE:HD13	1.80	0.64
8:2:500:SER:HA	8:2:757:PRO:HB3	1.79	0.64
8:2:794:ARG:HG3	8:2:805:ILE:CG2	2.16	0.64
9:3:554:ASN:HB2	9:3:557:ARG:CG	2.28	0.64
10:4:418:CYS:O	10:4:419:VAL:HG22	1.97	0.64
10:4:608:ASP:HB2	10:4:615:VAL:CG2	2.28	0.64
10:4:601:LEU:HD23	10:4:621:LEU:HD11	1.79	0.64
10:4:747:LEU:HD12	10:4:748:THR:N	2.12	0.64
11:5:366:LEU:O	11:5:370:LEU:HD13	1.98	0.64
11:5:608:LEU:HD11	11:5:609:LYS:NZ	2.12	0.64
12:6:112:ARG:O	12:6:116:GLU:N	2.19	0.64
12:6:336:PRO:CB	12:6:337:SER:HA	2.27	0.64
12:6:357:GLN:HG3	12:6:381:LEU:HD12	1.80	0.64
13:7:288:GLU:O	13:7:292:ASN:ND2	2.31	0.64
13:7:490:GLY:HA2	13:7:493:LEU:CG	2.27	0.64
8:2:335:LYS:HG2	8:2:381:VAL:HG12	1.80	0.64
9:3:163:ALA:H	9:3:164:HIS:CB	2.11	0.64
9:3:186:VAL:HG12	9:3:189:THR:OG1	1.98	0.64
9:3:234:GLU:H	9:3:241:LEU:HG	1.61	0.64
9:3:235:ASP:HB3	9:3:241:LEU:HD11	1.78	0.64
10:4:714:GLU:CA	10:4:715:LYS:HB3	2.28	0.64
11:5:136:GLN:HE22	11:5:282:LEU:HG	1.63	0.64
13:7:393:LEU:HA	13:7:394:THR:CB	2.25	0.64
13:7:665:ILE:HA	13:7:668:ARG:HB3	1.80	0.64
1:A:22:ARG:HB3	1:A:23:SER:CA	2.26	0.64
2:B:91:GLN:N	2:B:91:GLN:OE1	2.31	0.64
4:D:76:LEU:HD11	4:D:147:ARG:HE	1.63	0.64
5:E:323:ASP:O	5:E:406:ARG:N	2.28	0.64
5:E:413:LEU:CG	5:E:416:ARG:HB2	2.28	0.64
5:E:60:PRO:HG3	5:E:478:TRP:NE1	2.13	0.64
5:E:626:GLU:HB3	5:E:629:ILE:CG2	2.28	0.64
5:E:83:LEU:HD21	5:E:86:PHE:HB2	1.80	0.64
8:2:496:LYS:HA	8:2:499:SER:CB	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:776:PRO:HD2	8:2:822:LYS:HE2	1.78	0.64
9:3:338:ALA:N	9:3:339:ARG:HA	2.13	0.64
9:3:408:VAL:O	9:3:549:VAL:N	2.31	0.64
10:4:550:LYS:O	10:4:557:ARG:N	2.26	0.64
10:4:774:TYR:HA	10:4:777:MET:CG	2.28	0.64
11:5:177:THR:HG23	11:5:251:ILE:HG23	1.80	0.64
12:6:118:PHE:CD1	12:6:161:ARG:HD3	2.32	0.64
12:6:570:ASN:HB2	12:6:709:PHE:HA	1.80	0.64
12:6:777:TYR:CD1	12:6:800:LEU:HB2	2.33	0.64
13:7:363:PHE:CD1	13:7:366:LEU:HD22	2.33	0.64
4:D:200:LYS:H	4:D:201:TYR:C	2.01	0.64
4:D:202:MET:CG	4:D:207:GLN:HA	2.28	0.64
5:E:424:PHE:CE2	5:E:428:LEU:HD11	2.32	0.64
8:2:335:LYS:HD3	8:2:383:ARG:HB3	1.80	0.63
8:2:539:VAL:O	8:2:648:ALA:N	2.31	0.63
8:2:584:PRO:O	8:2:588:GLU:HA	1.97	0.63
8:2:626:GLN:HA	11:5:427:LYS:HZ3	1.63	0.63
8:2:759:PRO:HG2	8:2:762:LEU:HG	1.78	0.63
9:3:192:VAL:HG21	9:3:283:VAL:HG13	1.80	0.63
9:3:467:ARG:HG3	13:7:324:VAL:CG1	2.27	0.63
11:5:300:ILE:HG22	11:5:324:ARG:CB	2.27	0.63
11:5:369:ILE:HG12	11:5:594:ILE:CD1	2.28	0.63
12:6:640:GLU:HA	12:6:682:ALA:CB	2.29	0.63
13:7:656:VAL:HA	13:7:710:ILE:HD13	1.79	0.63
1:A:67:VAL:HG11	3:C:25:PRO:CD	2.22	0.63
5:E:154:GLU:O	5:E:157:GLU:HG2	1.98	0.63
5:E:545:LEU:O	5:E:549:GLY:N	2.20	0.63
5:E:637:LEU:HD12	5:E:638:SER:N	2.12	0.63
8:2:230:ARG:NH1	8:2:243:GLU:HB3	2.13	0.63
9:3:339:ARG:CB	9:3:340:GLN:HA	2.22	0.63
11:5:172:LEU:HB3	11:5:252:ASP:OD2	1.97	0.63
11:5:654:GLU:HA	11:5:657:ILE:CD1	2.25	0.63
12:6:288:LEU:HG	12:6:290:ILE:HD11	1.81	0.63
8:2:705:ARG:HB2	12:6:559:THR:CG2	2.27	0.63
8:2:399:PRO:HB3	12:6:630:LEU:HA	1.80	0.63
13:7:348:ILE:HG22	13:7:384:HIS:CD2	2.33	0.63
9:3:196:LEU:H	13:7:372:THR:HG23	1.63	0.63
13:7:543:GLN:O	13:7:545:THR:N	2.32	0.63
13:7:618:TYR:HE2	13:7:625:GLN:HA	1.63	0.63
1:A:102:TRP:HH2	4:D:148:LEU:HD13	1.63	0.63
5:E:287:VAL:O	5:E:291:LEU:HG	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:431:LEU:O	5:E:476:ASN:ND2	2.30	0.63
5:E:34:LEU:CD1	5:E:543:LEU:HD21	2.28	0.63
5:E:70:HIS:HA	5:E:73:GLN:HB3	1.81	0.63
9:3:130:THR:HG22	9:3:153:TRP:CD1	2.33	0.63
9:3:95:ARG:NH1	9:3:282:LEU:HD21	2.13	0.63
10:4:189:GLU:HA	10:4:192:THR:CG2	2.28	0.63
10:4:344:VAL:HG22	10:4:359:GLU:CB	2.28	0.63
10:4:521:LEU:HD21	10:4:741:VAL:HG11	1.80	0.63
10:4:564:ILE:CG1	10:4:704:LEU:HB3	2.27	0.63
10:4:727:LEU:HA	10:4:728:TYR:C	2.17	0.63
10:4:802:ILE:HG13	10:4:803:ARG:N	2.13	0.63
11:5:673:GLN:HB2	11:5:676:HIS:HB3	1.79	0.63
12:6:669:HIS:HE1	12:6:671:THR:HG23	1.64	0.63
12:6:794:ARG:N	12:6:795:ILE:HA	2.11	0.63
13:7:358:ALA:HB2	13:7:375:TYR:CE2	2.30	0.63
2:B:121:VAL:HG13	3:C:190:TRP:CZ2	2.32	0.63
2:B:140:GLU:CG	2:B:141:LEU:HD12	2.28	0.63
3:C:27:LEU:HG	3:C:38:ILE:CD1	2.24	0.63
3:C:55:ALA:HA	3:C:71:PHE:H	1.63	0.63
5:E:380:MET:HB2	5:E:385:LYS:CE	2.25	0.63
5:E:41:ALA:HB1	5:E:255:ILE:CD1	2.29	0.63
5:E:571:SER:O	5:E:579:TYR:HA	1.98	0.63
5:E:78:ILE:HB	5:E:118:ARG:CZ	2.27	0.63
9:3:377:ILE:HG12	9:3:547:PHE:CD2	2.33	0.63
9:3:96:ILE:O	9:3:155:LEU:HA	1.98	0.63
10:4:683:ASN:ND2	10:4:686:LEU:HD22	2.14	0.63
10:4:809:ALA:HB2	10:4:817:VAL:HG23	1.79	0.63
12:6:357:GLN:HE21	12:6:381:LEU:HD12	1.62	0.63
12:6:400:VAL:HG22	12:6:457:CYS:SG	2.39	0.63
8:2:572:SER:HA	12:6:663:ILE:HA	1.81	0.63
12:6:703:ALA:N	12:6:704:PRO:HD2	2.13	0.63
13:7:411:TYR:CE2	13:7:430:LYS:HE2	2.32	0.63
10:4:712:VAL:HG22	13:7:672:LYS:HZ2	1.61	0.63
3:C:139:ALA:HB1	3:C:184:TYR:CE2	2.33	0.63
1:A:130:TYR:CD1	4:D:189:ILE:HG13	2.34	0.63
5:E:291:LEU:HD22	5:E:294:LEU:HD12	1.80	0.63
5:E:557:ALA:HA	5:E:560:GLU:CB	2.28	0.63
6:F:22:DT:H3'	6:F:23:DT:H72	1.79	0.63
8:2:323:VAL:HG23	8:2:393:ALA:CA	2.29	0.63
8:2:543:GLY:HA3	8:2:549:LYS:NZ	2.13	0.63
9:3:191:LEU:HD21	13:7:329:ARG:NH1	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:472:ILE:HB	9:3:514:ALA:HA	1.81	0.63
10:4:714:GLU:HB3	10:4:715:LYS:CB	2.28	0.63
11:5:526:ILE:HB	11:5:527:TYR:CD2	2.33	0.63
11:5:357:PHE:HE1	11:5:598:LYS:HE2	1.62	0.63
12:6:120:GLU:OE2	12:6:191:LYS:NZ	2.31	0.63
12:6:594:ARG:NH1	12:6:632:ASP:O	2.30	0.63
1:A:83:LYS:HE2	4:D:206:LEU:HB3	1.81	0.63
2:B:59:ALA:CB	2:B:60:LEU:HB2	2.24	0.63
5:E:536:LEU:HD13	5:E:539:TYR:CD2	2.34	0.63
8:2:338:LYS:HB3	8:2:380:THR:HG22	1.81	0.63
9:3:189:THR:HA	9:3:256:ILE:HG22	1.81	0.63
9:3:259:GLN:HA	9:3:273:SER:HA	1.79	0.63
9:3:543:PHE:HD2	9:3:546:LEU:HD21	1.63	0.63
10:4:243:LEU:CG	10:4:244:ASP:H	2.11	0.63
10:4:774:TYR:OH	10:4:778:ARG:NH2	2.30	0.63
12:6:182:GLN:O	12:6:186:ARG:N	2.22	0.63
12:6:546:GLY:HA2	12:6:549:LEU:HD12	1.80	0.63
13:7:319:SER:HA	13:7:322:VAL:CG2	2.29	0.63
13:7:434:LEU:HD11	13:7:699:LEU:HD21	1.81	0.63
1:A:107:LEU:HD21	1:A:153:GLY:N	2.14	0.63
1:A:173:GLU:CA	1:A:183:LEU:HD23	2.29	0.63
2:B:119:TRP:HA	2:B:122:LEU:HG	1.78	0.63
2:B:25:ILE:HD12	2:B:87:ILE:CD1	2.29	0.63
3:C:51:ALA:HA	3:C:54:LEU:CG	2.29	0.63
5:E:131:LEU:HD21	5:E:240:TYR:HD2	1.64	0.63
5:E:33:CYS:SG	5:E:34:LEU:N	2.72	0.63
5:E:346:ALA:CB	5:E:555:CYS:HA	2.21	0.63
8:2:331:PHE:O	8:2:385:TYR:N	2.31	0.63
8:2:622:GLU:OE2	8:2:626:GLN:NE2	2.31	0.63
10:4:594:LYS:CG	10:4:636:LYS:HG2	2.29	0.63
8:2:637:VAL:HG11	11:5:471:LEU:HD11	1.81	0.63
12:6:640:GLU:HA	12:6:682:ALA:CA	2.28	0.63
12:6:652:ILE:O	12:6:656:MET:HG2	1.97	0.63
13:7:228:ARG:HE	13:7:329:ARG:HG3	1.63	0.63
1:A:105:ASN:HB3	1:A:110:MET:SD	2.39	0.63
1:A:110:MET:HE3	1:A:112:SER:HA	1.80	0.63
1:A:182:ASN:CG	5:E:74:LEU:HB3	2.19	0.63
1:A:27:VAL:HG13	1:A:28:ASN:N	2.12	0.63
1:A:46:ASN:O	1:A:50:ASN:ND2	2.32	0.63
2:B:107:THR:HG23	2:B:108:HIS:ND1	2.14	0.63
2:B:173:LEU:HG	2:B:178:ILE:HG13	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:99:ASP:O	2:B:102:ILE:HG12	1.98	0.63
4:D:170:SER:HB3	4:D:175:LEU:HD22	1.80	0.63
5:E:297:ASP:HA	5:E:300:LYS:HE3	1.81	0.63
5:E:551:TRP:CE3	5:E:552:LEU:HD12	2.32	0.63
1:A:184:ILE:HD11	5:E:73:GLN:NE2	2.12	0.63
5:E:78:ILE:HB	5:E:118:ARG:NH2	2.14	0.63
8:2:790:TYR:O	8:2:793:LEU:N	2.30	0.63
9:3:480:ASP:HA	9:3:483:ARG:HD2	1.81	0.63
10:4:280:MET:O	10:4:284:ILE:HD12	1.98	0.63
10:4:314:MET:O	10:4:317:LEU:HG	1.99	0.63
10:4:441:SER:C	10:4:442:ILE:HD12	2.19	0.63
10:4:505:ASP:O	10:4:509:ILE:HD12	1.98	0.63
11:5:152:ASP:CB	11:5:154:GLU:HG2	2.29	0.63
12:6:136:TYR:O	12:6:140:ILE:HD12	1.99	0.63
12:6:610:ALA:HA	12:6:624:GLU:HG3	1.81	0.63
12:6:805:ARG:HA	12:6:808:GLU:HB2	1.80	0.63
4:D:127:LEU:O	4:D:131:THR:N	2.30	0.63
5:E:416:ARG:NH2	11:5:41:ASP:O	2.32	0.63
6:F:4:DG:H2''	6:F:5:DA:H5'	1.79	0.63
8:2:328:THR:O	8:2:386:GLN:NE2	2.25	0.63
9:3:21:PHE:CE1	9:3:123:PRO:HB2	2.34	0.63
9:3:164:HIS:O	9:3:180:VAL:HG13	1.98	0.63
9:3:277:ILE:HB	9:3:322:LEU:CD2	2.28	0.63
9:3:482:ASP:O	9:3:486:ILE:HG13	1.99	0.63
10:4:437:GLY:HA2	10:4:464:VAL:CB	2.28	0.63
10:4:501:ILE:CG2	10:4:749:MET:HE3	2.28	0.63
11:5:379:PHE:HB2	11:5:568:ILE:HD13	1.81	0.63
12:6:115:PHE:O	12:6:119:LEU:N	2.23	0.63
12:6:185:LEU:HD23	12:6:189:VAL:HG23	1.81	0.63
12:6:355:ASP:HB2	12:6:356:TRP:HB3	1.81	0.63
12:6:695:LEU:O	12:6:699:LEU:HD13	1.99	0.63
2:B:122:LEU:O	2:B:126:LEU:HG	1.99	0.63
8:2:542:LEU:HD11	8:2:652:PRO:HG3	1.81	0.62
8:2:554:LYS:HA	8:2:557:GLU:HG3	1.81	0.62
8:2:565:PHE:HA	8:2:605:LEU:HB2	1.80	0.62
8:2:850:LYS:HG2	8:2:851:VAL:H	1.64	0.62
9:3:130:THR:HG22	9:3:153:TRP:HB2	1.79	0.62
9:3:132:LEU:HD12	9:3:135:SER:OG	1.99	0.62
9:3:480:ASP:HA	9:3:483:ARG:CD	2.28	0.62
10:4:693:ASP:CG	10:4:694:LEU:H	2.01	0.62
9:3:194:PRO:CG	13:7:374:THR:HG22	2.28	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:84:ARG:HA	1:A:87:LEU:HD12	1.81	0.62
3:C:112:ILE:HG23	3:C:113:MET:HE2	1.79	0.62
8:2:585:ILE:HA	8:2:586:THR:CG2	2.29	0.62
8:2:789:VAL:O	8:2:793:LEU:HD13	1.99	0.62
9:3:360:PHE:CD1	9:3:715:VAL:HG11	2.34	0.62
10:4:304:ARG:NH2	10:4:422:GLU:HB2	2.13	0.62
11:5:302:ASN:OD1	11:5:324:ARG:HG2	1.99	0.62
11:5:605:TYR:CE2	11:5:609:LYS:HG3	2.35	0.62
11:5:86:ILE:CG2	11:5:89:LEU:HD12	2.25	0.62
12:6:516:LEU:O	12:6:520:VAL:N	2.28	0.62
12:6:733:ASP:HA	12:6:736:MET:CG	2.28	0.62
12:6:752:ARG:HA	12:6:755:ILE:CD1	2.28	0.62
12:6:806:LEU:HD11	12:6:831:LEU:CG	2.29	0.62
13:7:409:ASP:OD2	13:7:412:ASN:HB3	1.99	0.62
1:A:162:PHE:HA	1:A:192:ARG:HA	1.81	0.62
3:C:172:MET:O	3:C:176:ILE:HG23	1.98	0.62
4:D:132:GLU:HA	4:D:135:ARG:NH2	2.14	0.62
5:E:271:TRP:CE2	5:E:275:LEU:HD21	2.33	0.62
5:E:96:LEU:CB	5:E:98:ILE:HD13	2.29	0.62
5:E:9:SER:O	5:E:13:ASN:N	2.29	0.62
8:2:806:THR:HG22	8:2:808:ARG:H	1.65	0.62
9:3:409:GLY:O	9:3:518:PRO:HD3	1.99	0.62
10:4:419:VAL:HG23	10:4:424:VAL:HG22	1.81	0.62
10:4:773:ALA:O	10:4:777:MET:HG2	1.99	0.62
12:6:810:ILE:HD11	12:6:827:ALA:CB	2.24	0.62
1:A:165:VAL:HG13	1:A:206:GLN:H	1.64	0.62
1:A:93:ARG:O	1:A:97:LEU:HG	1.99	0.62
3:C:170:GLU:HB3	3:C:173:GLU:HB3	1.81	0.62
3:C:83:LYS:HA	3:C:86:ASN:HD21	1.64	0.62
4:D:188:LEU:O	4:D:192:LYS:HG2	1.99	0.62
4:D:87:LEU:HA	4:D:90:ARG:HB3	1.81	0.62
5:E:351:TRP:HB2	5:E:511:VAL:HG13	1.81	0.62
5:E:503:GLN:O	5:E:507:PHE:N	2.31	0.62
8:2:554:LYS:HE2	12:6:658:GLN:HE22	1.63	0.62
9:3:427:SER:O	9:3:428:LEU:HB2	1.98	0.62
9:3:446:VAL:O	9:3:447:THR:HG23	1.98	0.62
10:4:271:ILE:O	10:4:275:THR:HG23	1.99	0.62
11:5:180:SER:OG	11:5:247:SER:OG	2.16	0.62
11:5:438:TYR:HA	11:5:478:CYS:HB2	1.80	0.62
12:6:304:LEU:HA	12:6:353:PHE:CD1	2.35	0.62
12:6:511:ASP:OD1	12:6:514:ASN:ND2	2.31	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:570:ASN:ND2	12:6:678:ILE:HB	2.14	0.62
13:7:154:LEU:CD1	13:7:189:THR:HG23	2.28	0.62
13:7:485:GLY:H	13:7:525:GLU:HB2	1.64	0.62
13:7:397:VAL:CG1	13:7:640:GLU:HG2	2.28	0.62
13:7:94:LEU:CA	13:7:95:GLN:HB2	2.30	0.62
1:A:130:TYR:CD2	4:D:193:LEU:HD22	2.34	0.62
1:A:172:GLY:HA3	1:A:183:LEU:HB2	1.81	0.62
8:2:617:ARG:HA	8:2:620:ILE:HG13	1.80	0.62
9:3:182:VAL:N	9:3:294:VAL:O	2.22	0.62
10:4:198:LEU:HD11	10:4:230:LEU:HD12	1.82	0.62
10:4:230:LEU:CD2	10:4:283:LEU:HD22	2.28	0.62
10:4:370:ARG:HB2	10:4:371:CYS:CB	2.21	0.62
10:4:559:ARG:NH2	10:4:668:ARG:HD3	2.15	0.62
11:5:44:PHE:CD1	11:5:47:ARG:HB3	2.35	0.62
11:5:409:ASP:H	11:5:518:SER:HB3	1.64	0.62
12:6:616:GLU:H	12:6:617:GLU:HA	1.64	0.62
12:6:598:THR:CG2	12:6:638:ILE:HG23	2.30	0.62
13:7:138:VAL:HG22	13:7:139:LEU:H	1.62	0.62
13:7:246:THR:N	13:7:314:LYS:O	2.32	0.62
13:7:466:LYS:HE2	13:7:600:MET:SD	2.40	0.62
13:7:489:SER:HB2	13:7:491:VAL:HG12	1.80	0.62
13:7:650:PRO:HA	13:7:706:ASP:CB	2.29	0.62
2:B:97:GLU:O	2:B:100:ARG:HG2	2.00	0.62
2:B:111:ARG:O	2:B:155:LYS:NZ	2.33	0.62
2:B:157:LEU:HA	2:B:160:LEU:HB3	1.80	0.62
3:C:95:LEU:O	3:C:131:ARG:NH2	2.32	0.62
3:C:162:THR:N	3:C:163:SER:HA	2.12	0.62
3:C:181:HIS:CD2	3:C:185:LYS:HD2	2.34	0.62
1:A:158:PRO:HG3	4:D:135:ARG:HA	1.82	0.62
5:E:157:GLU:O	5:E:161:LYS:HB2	1.99	0.62
5:E:297:ASP:HA	5:E:300:LYS:CE	2.30	0.62
5:E:31:VAL:HG11	5:E:477:PHE:CZ	2.34	0.62
5:E:473:TRP:CH2	5:E:542:PRO:HD3	2.35	0.62
5:E:634:ARG:HA	5:E:637:LEU:CG	2.28	0.62
10:4:618:SER:HB3	10:4:622:VAL:CB	2.29	0.62
11:5:176:ALA:HA	11:5:250:PHE:HA	1.80	0.62
11:5:494:HIS:HE1	11:5:546:ILE:HG13	1.65	0.62
11:5:617:GLN:HG2	11:5:674:GLU:OE1	1.99	0.62
12:6:106:VAL:CA	12:6:109:GLU:HB3	2.23	0.62
12:6:167:ALA:HA	12:6:170:ILE:HD12	1.82	0.62
12:6:112:ARG:NH2	12:6:183:LYS:HB2	2.05	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:185:LEU:O	12:6:189:VAL:N	2.29	0.62
12:6:706:MET:HG3	12:6:712:PHE:CE2	2.28	0.62
12:6:768:GLU:OE1	12:6:768:GLU:N	2.29	0.62
1:A:115:PHE:O	1:A:118:GLN:NE2	2.33	0.62
2:B:115:LEU:HD22	2:B:119:TRP:CE2	2.34	0.62
2:B:26:LYS:HA	2:B:69:THR:O	2.00	0.62
4:D:151:ILE:HG23	4:D:158:LEU:HD13	1.81	0.62
5:E:140:ILE:HA	5:E:141:GLN:CB	2.23	0.62
5:E:392:PHE:HA	5:E:396:LEU:CD2	2.18	0.62
8:2:339:PHE:CD2	8:2:373:PHE:HB3	2.34	0.62
8:2:556:VAL:HA	8:2:559:THR:HB	1.81	0.62
8:2:621:HIS:HA	8:2:624:MET:CE	2.30	0.62
9:3:171:LEU:CD2	9:3:172:THR:HG23	2.30	0.62
10:4:243:LEU:HG	10:4:244:ASP:H	1.64	0.62
10:4:234:ARG:HB2	10:4:291:TYR:HE2	1.63	0.62
10:4:618:SER:HB3	10:4:622:VAL:CG1	2.29	0.62
11:5:97:VAL:HA	11:5:100:ARG:HG3	1.80	0.62
11:5:181:ILE:HG23	11:5:242:ILE:N	2.14	0.62
11:5:176:ALA:HB2	11:5:250:PHE:CE1	2.35	0.62
11:5:338:GLU:HB3	11:5:346:VAL:HB	1.82	0.62
11:5:87:ILE:HB	11:5:196:ASN:ND2	2.14	0.62
12:6:417:PRO:O	12:6:448:LEU:HG	1.98	0.62
12:6:517:LYS:HA	12:6:520:VAL:CG2	2.28	0.62
1:A:54:LEU:HA	1:A:57:GLN:HB3	1.81	0.62
2:B:26:LYS:HG3	2:B:70:GLU:OE1	1.99	0.62
3:C:110:LYS:O	3:C:114:LEU:N	2.30	0.62
4:D:157:TYR:O	4:D:161:LEU:N	2.31	0.62
5:E:127:ARG:O	5:E:245:THR:HA	2.00	0.62
5:E:363:PHE:HA	5:E:366:MET:HB2	1.81	0.62
8:2:340:ASN:HB3	8:2:376:ASN:HB3	1.82	0.62
8:2:330:VAL:CG2	8:2:416:ASP:HB2	2.29	0.62
8:2:542:LEU:HB3	8:2:682:VAL:HA	1.81	0.62
9:3:179:LEU:HA	9:3:297:VAL:HA	1.82	0.62
9:3:716:ARG:NH2	9:3:725:ASP:OD1	2.33	0.62
11:5:141:SER:OG	11:5:161:ARG:NH2	2.32	0.62
11:5:184:ARG:HB3	11:5:242:ILE:CD1	2.23	0.62
11:5:546:ILE:H	11:5:546:ILE:HD12	1.65	0.62
11:5:594:ILE:H	11:5:594:ILE:HD12	1.65	0.62
12:6:763:PRO:CB	12:6:817:ASP:HA	2.28	0.62
13:7:664:TYR:O	13:7:668:ARG:N	2.33	0.62
1:A:7:ASN:CA	1:A:10:VAL:HG12	2.21	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:105:PHE:HZ	3:C:127:LEU:HD22	1.64	0.62
4:D:126:LEU:HD23	4:D:127:LEU:N	2.14	0.62
4:D:58:GLN:HA	4:D:61:SER:HB2	1.82	0.62
5:E:10:GLU:O	5:E:14:LYS:N	2.32	0.62
5:E:310:VAL:CG1	5:E:311:LYS:HA	2.30	0.62
5:E:366:MET:HG2	5:E:391:ILE:CG2	2.30	0.62
10:4:203:TYR:HB2	10:4:206:ARG:CG	2.29	0.62
11:5:370:LEU:HD12	11:5:594:ILE:HD11	1.80	0.62
12:6:167:ALA:HA	12:6:170:ILE:CG1	2.30	0.62
12:6:574:VAL:HG12	12:6:684:PRO:HG3	1.82	0.62
12:6:781:ARG:HG2	12:6:795:ILE:HB	1.82	0.62
13:7:207:LEU:O	13:7:207:LEU:HD12	2.00	0.62
13:7:248:VAL:HG13	13:7:248:VAL:O	2.00	0.62
5:E:563:GLN:O	5:E:565:LEU:HG	1.99	0.62
5:E:605:PHE:CE2	5:E:650:LEU:HD21	2.35	0.62
5:E:32:SER:HB2	5:E:86:PHE:CE2	2.35	0.62
6:F:21:DT:OP2	9:3:438:SER:OG	2.14	0.62
8:2:701:ASP:HA	8:2:704:VAL:CG2	2.30	0.62
9:3:214:TYR:HE1	9:3:229:ALA:CB	2.08	0.62
9:3:254:GLN:HB3	9:3:283:VAL:HG22	1.81	0.62
10:4:229:GLN:HA	10:4:232:GLU:CD	2.20	0.62
10:4:258:TYR:O	10:4:262:LEU:HG	1.98	0.62
10:4:331:LEU:HD13	10:4:430:GLY:HA2	1.82	0.62
10:4:352:CYS:N	10:4:353:ASP:HA	2.15	0.62
10:4:625:ASP:CG	10:4:667:ALA:HA	2.20	0.62
10:4:696:PRO:N	10:4:697:PRO:HD2	2.15	0.62
11:5:63:VAL:N	11:5:138:ILE:O	2.32	0.62
11:5:256:LEU:O	11:5:276:MET:N	2.32	0.62
9:3:314:LEU:HD11	11:5:303:SER:HB3	1.81	0.62
12:6:170:ILE:O	12:6:174:TYR:HB2	1.99	0.62
12:6:802:SER:O	12:6:806:LEU:N	2.33	0.62
1:A:107:LEU:HD21	1:A:153:GLY:HA3	1.81	0.62
1:A:78:CYS:O	1:A:82:ASN:N	2.24	0.62
4:D:134:GLU:HA	4:D:137:LYS:HB3	1.81	0.62
4:D:261:PRO:HB3	4:D:278:ARG:NH1	2.14	0.62
5:E:539:TYR:HA	5:E:544:THR:HG21	1.81	0.62
5:E:637:LEU:O	5:E:641:LEU:N	2.31	0.62
8:2:258:LEU:O	8:2:262:LYS:N	2.33	0.61
8:2:803:PHE:CB	8:2:805:ILE:H	2.08	0.61
9:3:400:ARG:O	9:3:707:ARG:NH2	2.33	0.61
11:5:302:ASN:HB2	11:5:324:ARG:NH1	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:75:ILE:CA	11:5:78:LYS:HB3	2.22	0.61
12:6:270:LEU:HD11	12:6:287:LEU:HD21	1.81	0.61
12:6:294:VAL:HG23	12:6:393:ASP:O	2.00	0.61
12:6:572:CYS:HA	12:6:680:ALA:O	2.00	0.61
13:7:89:GLN:HE22	13:7:103:VAL:H	1.48	0.61
10:4:456:LEU:HB2	13:7:254:ALA:HB2	1.80	0.61
13:7:466:LYS:HD3	13:7:566:ALA:HB1	1.82	0.61
5:E:577:ASP:HB2	5:E:633:ARG:NE	2.09	0.61
9:3:260:GLU:OE1	9:3:260:GLU:N	2.23	0.61
9:3:389:VAL:HG12	9:3:389:VAL:O	1.99	0.61
9:3:476:ASP:HB3	9:3:516:ALA:HB1	1.82	0.61
11:5:236:CYS:SG	11:5:240:PRO:HG3	2.39	0.61
11:5:287:ILE:HG23	11:5:288:PRO:HD2	1.80	0.61
11:5:614:LEU:HA	11:5:672:ALA:HB3	1.81	0.61
11:5:663:LEU:O	11:5:663:LEU:HD23	2.00	0.61
12:6:130:GLY:CA	12:6:131:GLU:HB3	2.29	0.61
12:6:289:SER:HA	12:6:397:PHE:O	2.00	0.61
12:6:611:ALA:HB3	12:6:612:VAL:C	2.19	0.61
1:A:158:PRO:HD2	2:B:18:PHE:CE1	2.35	0.61
1:A:169:LYS:HG3	1:A:185:LYS:HE2	1.82	0.61
3:C:137:HIS:CD2	11:5:55:LEU:HD22	2.35	0.61
5:E:134:ILE:HA	5:E:142:CYS:SG	2.40	0.61
5:E:5:ILE:HD13	5:E:134:ILE:HG23	1.81	0.61
8:2:458:ARG:HH22	8:2:562:ARG:HA	1.64	0.61
8:2:570:GLY:N	8:2:571:ALA:CA	2.63	0.61
9:3:167:SER:HB3	9:3:168:PRO:HD2	1.82	0.61
9:3:374:HIS:O	9:3:378:LYS:HG2	1.99	0.61
10:4:181:TRP:CZ2	13:7:149:ARG:HB2	2.35	0.61
10:4:249:LEU:HD12	10:4:250:ALA:CA	2.29	0.61
10:4:303:VAL:HG12	10:4:305:PRO:CD	2.26	0.61
11:5:426:LEU:HA	11:5:429:VAL:CG2	2.29	0.61
11:5:571:HIS:O	11:5:575:ILE:HG13	1.99	0.61
11:5:633:LEU:CD1	11:5:648:ILE:HD11	2.30	0.61
11:5:83:PRO:O	11:5:87:ILE:HG13	1.99	0.61
12:6:533:ILE:O	12:6:587:TYR:OH	2.12	0.61
13:7:225:LEU:O	13:7:241:VAL:HB	2.00	0.61
13:7:367:LYS:HA	13:7:368:ALA:CB	2.25	0.61
1:A:37:ILE:O	1:A:41:LEU:HG	2.00	0.61
5:E:288:TYR:HA	5:E:291:LEU:HB2	1.80	0.61
5:E:292:TYR:OH	5:E:406:ARG:NH1	2.33	0.61
8:2:506:TYR:HB2	8:2:698:PHE:CZ	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:849:GLN:HB2	8:2:853:VAL:HB	1.83	0.61
10:4:178:ARG:NH1	10:4:187:ILE:HD12	2.15	0.61
10:4:188:GLN:C	10:4:190:CYS:H	2.03	0.61
10:4:277:LYS:O	10:4:281:VAL:HG23	2.00	0.61
10:4:340:PRO:HG2	12:6:450:TYR:O	2.01	0.61
10:4:442:ILE:HD13	10:4:460:TYR:HE2	1.66	0.61
10:4:748:THR:HA	10:4:751:ILE:CD1	2.29	0.61
10:4:778:ARG:HH21	10:4:794:THR:HA	1.66	0.61
10:4:820:GLU:HA	10:4:823:GLN:HE22	1.64	0.61
11:5:164:GLY:HA3	11:5:258:LEU:HD11	1.82	0.61
9:3:566:LEU:HD11	11:5:623:SER:HB3	1.81	0.61
9:3:553:ILE:CB	11:5:630:ARG:HD2	2.30	0.61
11:5:649:THR:OG1	11:5:652:GLN:HG2	2.00	0.61
12:6:525:ILE:HG22	12:6:746:PHE:HZ	1.66	0.61
13:7:287:GLU:HA	13:7:290:SER:CB	2.30	0.61
1:A:147:VAL:CG1	1:A:149:ILE:HG13	2.30	0.61
1:A:196:VAL:HG13	1:A:205:LEU:CD1	2.31	0.61
1:A:71:GLN:O	1:A:75:THR:N	2.27	0.61
3:C:188:LYS:HA	3:C:191:MET:CG	2.30	0.61
5:E:131:LEU:O	5:E:155:GLN:NE2	2.33	0.61
5:E:8:PHE:HE2	5:E:254:GLN:HB3	1.65	0.61
5:E:292:TYR:O	5:E:296:GLN:N	2.29	0.61
5:E:359:LEU:HG	5:E:363:PHE:CE2	2.35	0.61
9:3:123:PRO:HA	9:3:126:GLU:CD	2.21	0.61
9:3:216:ASP:OD1	9:3:219:THR:N	2.34	0.61
10:4:188:GLN:O	10:4:190:CYS:N	2.29	0.61
10:4:710:ASP:OD2	13:7:672:LYS:NZ	2.31	0.61
11:5:382:GLU:N	11:5:382:GLU:OE1	2.30	0.61
11:5:391:LEU:HA	11:5:409:ASP:OD2	2.00	0.61
11:5:485:MET:HG2	11:5:490:ARG:HB2	1.82	0.61
11:5:384:ILE:HG23	11:5:554:PHE:HD2	1.65	0.61
10:4:340:PRO:HD3	12:6:452:ILE:CD1	2.31	0.61
13:7:421:GLU:HA	13:7:625:GLN:OE1	2.00	0.61
1:A:145:ASP:HB3	1:A:147:VAL:CG2	2.31	0.61
3:C:20:PHE:HA	3:C:72:VAL:HA	1.82	0.61
3:C:50:LEU:O	3:C:54:LEU:HG	2.00	0.61
4:D:99:GLU:O	4:D:103:MET:HG2	2.01	0.61
5:E:302:LEU:HD12	5:E:302:LEU:O	1.99	0.61
8:2:319:ARG:HE	8:2:427:THR:CG2	2.14	0.61
8:2:571:ALA:HB3	12:6:665:LYS:CE	2.29	0.61
10:4:397:ILE:HB	10:4:417:LEU:CD1	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:704:LEU:HD12	10:4:705:VAL:H	1.65	0.61
11:5:618:ALA:O	11:5:622:LEU:HG	1.99	0.61
13:7:127:LEU:HD12	13:7:128:PRO:N	2.16	0.61
13:7:459:MET:CB	13:7:597:LEU:HD21	2.28	0.61
5:E:161:LYS:HB3	5:E:233:TYR:CD2	2.36	0.61
5:E:519:ILE:HG13	5:E:528:CYS:SG	2.41	0.61
8:2:266:GLU:O	8:2:270:ILE:N	2.33	0.61
8:2:296:ARG:HD2	8:2:454:ASN:O	2.00	0.61
8:2:338:LYS:HD2	8:2:347:ILE:CG2	2.31	0.61
8:2:347:ILE:HD13	8:2:379:LYS:HG3	1.82	0.61
8:2:684:ARG:HB3	8:2:685:ASP:CB	2.30	0.61
9:3:193:ARG:NH2	9:3:451:GLU:O	2.34	0.61
9:3:690:ASP:OD2	9:3:697:ILE:HD11	2.00	0.61
10:4:803:ARG:HA	10:4:806:GLU:OE2	2.00	0.61
11:5:141:SER:CB	11:5:161:ARG:HH21	2.13	0.61
11:5:155:HIS:O	11:5:298:TYR:HB3	2.01	0.61
11:5:299:SER:O	11:5:300:ILE:HD13	2.01	0.61
11:5:435:ILE:HD12	11:5:475:GLY:HA3	1.83	0.61
8:2:445:PRO:HD3	12:6:325:PHE:CB	2.31	0.61
12:6:363:GLU:HB3	12:6:374:PRO:HB3	1.83	0.61
13:7:333:ILE:CD1	13:7:376:LEU:HD23	2.30	0.61
13:7:654:GLU:HA	13:7:657:ASN:HB2	1.81	0.61
2:B:122:LEU:C	2:B:126:LEU:HG	2.21	0.61
1:A:79:MET:CB	4:D:206:LEU:HD11	2.31	0.61
4:D:231:HIS:HB2	4:D:274:ILE:HG22	1.82	0.61
4:D:267:VAL:N	4:D:268:GLU:HA	2.15	0.61
5:E:137:SER:HA	5:E:140:ILE:HD11	1.81	0.61
5:E:140:ILE:HB	5:E:142:CYS:N	2.16	0.61
5:E:491:LEU:HD12	5:E:492:LEU:N	2.16	0.61
8:2:289:ILE:HG22	8:2:290:HIS:CD2	2.35	0.61
9:3:181:SER:CB	9:3:295:VAL:HG22	2.31	0.61
9:3:294:VAL:HG22	9:3:326:VAL:CG1	2.30	0.61
9:3:446:VAL:HG21	9:3:458:GLU:HB2	1.82	0.61
9:3:470:VAL:CG1	9:3:512:VAL:HG13	2.30	0.61
9:3:666:ARG:HB3	9:3:667:VAL:HG23	1.83	0.61
10:4:245:ALA:O	10:4:307:ASN:HB3	2.00	0.61
10:4:234:ARG:HG3	10:4:291:TYR:OH	2.01	0.61
10:4:345:ALA:N	10:4:360:ILE:HD12	2.15	0.61
10:4:654:ILE:N	10:4:665:LEU:O	2.27	0.61
11:5:301:TYR:HD2	11:5:327:TYR:CD2	2.19	0.61
11:5:655:ALA:O	11:5:659:ILE:HD12	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:459:ALA:H	13:7:327:ILE:HD11	1.65	0.61
13:7:671:SER:OG	13:7:682:GLY:HA2	2.00	0.61
2:B:165:GLU:N	2:B:165:GLU:OE1	2.27	0.61
3:C:165:PHE:O	3:C:168:LYS:HG2	2.00	0.61
4:D:224:TRP:HB3	4:D:280:GLU:HB2	1.81	0.61
4:D:83:LEU:O	4:D:86:ARG:HG2	2.01	0.61
8:2:591:LEU:HD23	8:2:592:GLU:N	2.16	0.61
8:2:779:HIS:O	8:2:783:MET:HG2	2.00	0.61
8:2:815:ARG:HG3	8:2:818:GLU:OE2	2.01	0.61
8:2:793:LEU:HD11	8:2:863:ILE:HG13	1.83	0.61
9:3:356:LYS:HB2	9:3:359:ILE:CG2	2.26	0.61
10:4:332:VAL:HB	10:4:430:GLY:H	1.66	0.61
10:4:652:GLN:NE2	10:4:668:ARG:HA	2.15	0.61
10:4:714:GLU:HB3	10:4:715:LYS:HB2	1.83	0.61
11:5:300:ILE:HD13	11:5:326:PRO:HA	1.82	0.61
11:5:439:THR:HA	11:5:444:SER:HB2	1.83	0.61
3:C:137:HIS:CB	11:5:55:LEU:HB3	2.27	0.61
12:6:625:ALA:CB	12:6:626:GLY:HA2	2.18	0.61
12:6:811:ALA:HB2	12:6:819:ILE:CG1	2.28	0.61
13:7:128:PRO:CD	13:7:129:THR:HA	2.30	0.61
9:3:706:ILE:HD13	13:7:620:HIS:CD2	2.36	0.61
3:C:138:HIS:HB3	3:C:177:TYR:CE1	2.35	0.61
4:D:259:THR:OG1	4:D:260:ILE:N	2.34	0.61
5:E:336:ASP:HA	5:E:339:TYR:HB3	1.83	0.61
5:E:612:ILE:HG21	5:E:640:PHE:HD1	1.65	0.61
6:F:21:DT:H3'	11:5:506:LYS:HE2	1.82	0.61
8:2:305:SER:HA	8:2:321:THR:HG22	1.83	0.61
8:2:621:HIS:HA	8:2:624:MET:HE3	1.82	0.61
11:5:45:ILE:HG13	11:5:46:TYR:N	2.14	0.61
12:6:274:HIS:HB2	12:6:288:LEU:HD21	1.82	0.61
12:6:650:VAL:O	12:6:654:GLU:HG3	2.01	0.61
13:7:153:MET:O	13:7:157:ARG:HB2	2.01	0.61
13:7:236:GLY:HA2	13:7:356:LEU:HD21	1.83	0.61
13:7:575:ASN:CB	13:7:578:LEU:HD13	2.21	0.61
4:D:212:THR:HB	4:D:213:GLU:C	2.21	0.61
5:E:151:THR:HA	5:E:152:LEU:CB	2.28	0.61
5:E:78:ILE:HD12	5:E:78:ILE:H	1.65	0.61
8:2:481:GLU:O	8:2:485:ARG:N	2.33	0.60
8:2:626:GLN:NE2	8:2:628:SER:O	2.33	0.60
9:3:181:SER:CA	9:3:295:VAL:HG22	2.31	0.60
10:4:559:ARG:NE	10:4:668:ARG:HB2	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:642:ARG:HD3	10:4:698:LEU:HD22	1.82	0.60
10:4:688:VAL:HG11	10:4:836:TYR:HD1	1.66	0.60
9:3:371:ILE:HD11	11:5:404:MET:HE1	1.82	0.60
11:5:487:ASP:O	11:5:491:VAL:HG23	2.00	0.60
11:5:494:HIS:HB3	11:5:549:ARG:NE	2.16	0.60
11:5:502:ILE:O	11:5:513:LEU:HG	2.01	0.60
12:6:301:ARG:O	12:6:356:TRP:N	2.32	0.60
13:7:443:ARG:HG3	13:7:449:LYS:CE	2.28	0.60
2:B:157:LEU:HA	2:B:160:LEU:CB	2.31	0.60
2:B:27:ILE:HG22	2:B:87:ILE:HA	1.83	0.60
5:E:284:TYR:HB2	5:E:286:GLN:NE2	2.15	0.60
5:E:369:PRO:HG3	8:2:289:ILE:HD12	1.83	0.60
5:E:420:SER:O	5:E:424:PHE:N	2.29	0.60
8:2:301:PRO:CB	8:2:303:ILE:HG12	2.29	0.60
8:2:695:LEU:O	8:2:699:VAL:N	2.30	0.60
8:2:763:LEU:HD12	8:2:764:MET:N	2.15	0.60
9:3:32:LEU:HD22	9:3:38:TYR:HB2	1.82	0.60
9:3:441:GLY:HA2	9:3:460:GLY:C	2.22	0.60
9:3:519:VAL:HG22	9:3:534:ALA:CB	2.27	0.60
9:3:372:TYR:CZ	9:3:564:HIS:HB3	2.36	0.60
10:4:334:ARG:NH1	10:4:398:LYS:HD3	2.15	0.60
10:4:458:LYS:HA	13:7:252:LYS:HZ1	1.63	0.60
11:5:136:GLN:NE2	11:5:282:LEU:HG	2.16	0.60
11:5:502:ILE:HB	11:5:513:LEU:CD1	2.31	0.60
11:5:432:VAL:O	11:5:600:LYS:HE2	2.00	0.60
11:5:643:ARG:NH1	11:5:691:ALA:O	2.34	0.60
12:6:137:ARG:O	12:6:141:GLU:HG2	2.01	0.60
13:7:208:SER:HA	13:7:222:SER:CB	2.31	0.60
13:7:283:GLU:O	13:7:298:LEU:HG	2.01	0.60
13:7:238:LEU:CB	13:7:354:ILE:HG22	2.31	0.60
13:7:546:ILE:O	13:7:556:THR:HA	2.01	0.60
13:7:650:PRO:HG3	13:7:700:ALA:HB3	1.83	0.60
13:7:705:ALA:O	13:7:707:MET:HG2	2.01	0.60
1:A:145:ASP:CB	1:A:147:VAL:HG23	2.30	0.60
1:A:14:LYS:HB2	3:C:6:ILE:HD12	1.83	0.60
3:C:111:TRP:HA	3:C:114:LEU:HB3	1.83	0.60
3:C:27:LEU:CD2	3:C:29:TYR:H	2.09	0.60
3:C:27:LEU:HD12	3:C:38:ILE:HG12	1.83	0.60
1:A:192:ARG:NH1	4:D:130:GLU:HG3	2.16	0.60
5:E:556:CYS:O	5:E:560:GLU:HG2	2.01	0.60
8:2:458:ARG:NH2	8:2:562:ARG:HA	2.15	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:647:GLU:OE2	10:4:655:SER:N	2.20	0.60
10:4:824:GLU:O	10:4:828:LEU:N	2.32	0.60
11:5:391:LEU:O	11:5:391:LEU:HD23	2.01	0.60
11:5:673:GLN:HB2	11:5:676:HIS:HB2	1.83	0.60
12:6:111:VAL:O	12:6:115:PHE:N	2.28	0.60
12:6:632:ASP:HA	12:6:676:THR:CG2	2.26	0.60
13:7:461:ASP:HB3	13:7:569:PRO:HD2	1.82	0.60
1:A:169:LYS:H	1:A:185:LYS:CD	2.08	0.60
1:A:90:GLN:HA	1:A:93:ARG:HB3	1.82	0.60
3:C:50:LEU:HD12	3:C:51:ALA:N	2.15	0.60
2:B:8:GLN:O	4:D:71:ARG:NH2	2.34	0.60
8:2:585:ILE:HA	8:2:586:THR:HG22	1.83	0.60
9:3:113:GLY:HA2	9:3:116:VAL:HB	1.83	0.60
9:3:432:THR:O	9:3:473:ASP:N	2.31	0.60
9:3:494:THR:HA	9:3:508:ALA:H	1.66	0.60
11:5:550:PHE:HB2	11:5:553:ILE:HD11	1.82	0.60
11:5:594:ILE:HG21	11:5:599:MET:HB2	1.81	0.60
13:7:353:GLY:HA2	13:7:379:GLN:HG2	1.83	0.60
1:A:138:ILE:HG23	1:A:142:LYS:NZ	2.16	0.60
4:D:60:PHE:HE1	4:D:136:LEU:HG	1.67	0.60
4:D:170:SER:CB	4:D:175:LEU:HD13	2.29	0.60
8:2:266:GLU:HA	8:2:269:LYS:CB	2.19	0.60
8:2:785:LYS:HG2	8:2:789:VAL:CG2	2.31	0.60
8:2:794:ARG:HD2	11:5:565:ASP:OD2	2.02	0.60
8:2:819:SER:O	8:2:823:MET:HG3	2.01	0.60
9:3:299:LYS:HG3	9:3:322:LEU:HG	1.83	0.60
9:3:457:LEU:HG	9:3:502:ILE:HD13	1.83	0.60
9:3:705:LEU:HD21	9:3:733:LEU:CD1	2.30	0.60
10:4:401:GLU:HG2	10:4:403:PRO:HD3	1.82	0.60
10:4:437:GLY:HA2	10:4:464:VAL:HG23	1.84	0.60
10:4:806:GLU:HA	10:4:809:ALA:HB3	1.82	0.60
11:5:384:ILE:HG23	11:5:554:PHE:CD2	2.36	0.60
2:B:146:GLN:HG2	11:5:44:PHE:HZ	1.66	0.60
11:5:50:LEU:O	11:5:54:ILE:HG13	2.00	0.60
11:5:434:PRO:CA	11:5:600:LYS:HD3	2.31	0.60
11:5:656:ILE:HA	11:5:659:ILE:CD1	2.31	0.60
12:6:616:GLU:N	12:6:617:GLU:HA	2.17	0.60
13:7:493:LEU:CB	13:7:513:LEU:HG	2.31	0.60
13:7:461:ASP:OD2	13:7:573:ARG:HA	2.01	0.60
13:7:575:ASN:O	13:7:578:LEU:HB2	2.02	0.60
13:7:584:ILE:HD13	13:7:591:LEU:CD2	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:130:TYR:HB2	4:D:193:LEU:HD13	1.84	0.60
4:D:216:VAL:HG21	4:D:219:ILE:HG13	1.83	0.60
4:D:76:LEU:HD22	4:D:151:ILE:CD1	2.18	0.60
8:2:430:TYR:OH	8:2:449:THR:HG21	2.01	0.60
8:2:553:LEU:O	8:2:557:GLU:HG3	2.02	0.60
9:3:348:ARG:HA	9:3:351:ASN:HD22	1.65	0.60
9:3:500:ALA:HB3	9:3:501:GLY:HA2	1.82	0.60
9:3:372:TYR:CE2	9:3:561:ILE:HA	2.36	0.60
9:3:660:VAL:O	9:3:664:LYS:HG3	2.02	0.60
10:4:239:SER:OG	10:4:301:TYR:HA	2.01	0.60
10:4:795:THR:HA	10:4:798:LEU:HB3	1.84	0.60
10:4:827:ARG:HA	10:4:830:ARG:CG	2.30	0.60
11:5:374:ILE:HA	11:5:428:PHE:CZ	2.37	0.60
11:5:456:ASP:HB3	11:5:460:ARG:O	2.02	0.60
11:5:349:PHE:CB	11:5:601:ARG:HH21	2.12	0.60
12:6:689:TYR:HD2	12:6:716:LEU:HD12	1.67	0.60
12:6:695:LEU:HB3	12:6:838:VAL:CG1	2.23	0.60
13:7:149:ARG:O	13:7:153:MET:HG3	2.00	0.60
13:7:203:TYR:OH	13:7:339:LEU:N	2.33	0.60
2:B:187:GLU:HB2	3:C:179:LYS:HZ3	1.67	0.60
5:E:545:LEU:CA	5:E:548:LEU:HB3	2.30	0.60
8:2:399:PRO:HB2	12:6:630:LEU:HB3	1.83	0.60
9:3:234:GLU:HA	9:3:239:ASN:O	2.00	0.60
9:3:706:ILE:HD13	13:7:620:HIS:HD2	1.66	0.60
10:4:653:THR:HA	10:4:667:ALA:H	1.66	0.60
10:4:717:ASP:O	10:4:721:ALA:N	2.28	0.60
10:4:761:ILE:CD1	12:6:737:LYS:HD2	2.32	0.60
11:5:626:PHE:CE2	11:5:630:ARG:HB2	2.36	0.60
13:7:354:ILE:H	13:7:379:GLN:HG2	1.67	0.60
1:A:23:SER:N	1:A:24:ASN:CA	2.65	0.60
4:D:151:ILE:HG23	4:D:158:LEU:CD1	2.32	0.60
2:B:55:THR:HG22	4:D:94:GLN:HE22	1.65	0.60
5:E:603:ASN:OD1	5:E:604:ASN:N	2.35	0.60
5:E:582:ALA:HA	5:E:629:ILE:HA	1.82	0.60
8:2:259:PHE:O	8:2:263:CYS:N	2.34	0.60
8:2:327:ARG:HH12	8:2:420:PRO:HD3	1.67	0.60
9:3:368:ALA:HB1	9:3:371:ILE:CB	2.24	0.60
10:4:235:GLU:HG3	10:4:291:TYR:OH	2.02	0.60
10:4:631:ILE:HB	10:4:673:ALA:CB	2.31	0.60
11:5:568:ILE:O	11:5:572:VAL:HG23	2.01	0.60
12:6:264:GLN:NE2	12:6:383:GLY:HA2	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:344:TRP:CB	12:6:345:THR:CA	2.80	0.60
12:6:292:GLY:O	12:6:394:ARG:HA	2.00	0.60
10:4:458:LYS:CE	12:6:413:PRO:HD3	2.30	0.60
13:7:115:GLU:O	13:7:119:ARG:N	2.34	0.60
13:7:128:PRO:HB2	13:7:129:THR:CA	2.31	0.60
2:B:119:TRP:HA	2:B:122:LEU:CD1	2.31	0.60
2:B:155:LYS:HA	2:B:158:LYS:CG	2.30	0.60
5:E:38:ALA:O	5:E:42:THR:HG23	2.02	0.60
7:G:5:DA:H5"	9:3:230:ILE:CD1	2.31	0.60
8:2:338:LYS:HD2	8:2:347:ILE:HG22	1.84	0.60
8:2:565:PHE:HD1	8:2:605:LEU:HB3	1.66	0.60
8:2:567:THR:HG22	8:2:572:SER:CB	2.31	0.60
8:2:630:SER:HB2	11:5:445:SER:HA	1.84	0.60
9:3:439:GLY:HA2	9:3:442:LEU:HD22	1.84	0.60
9:3:470:VAL:HB	9:3:512:VAL:HA	1.84	0.60
11:5:165:ILE:HD11	11:5:291:ARG:NH1	2.17	0.60
11:5:588:GLU:HB3	11:5:593:GLU:CB	2.31	0.60
11:5:393:MET:SD	11:5:603:ILE:HG23	2.41	0.60
12:6:358:LYS:HD2	12:6:378:ASP:OD2	2.01	0.60
12:6:748:ALA:O	12:6:752:ARG:HG3	2.02	0.60
13:7:689:LEU:HD12	13:7:692:ILE:HG21	1.83	0.60
1:A:169:LYS:CA	1:A:185:LYS:HD3	2.32	0.60
1:A:202:GLN:HB3	1:A:204:TYR:HD2	1.67	0.60
2:B:178:ILE:HA	2:B:181:LEU:CD2	2.31	0.60
4:D:132:GLU:HG2	4:D:135:ARG:HH12	1.67	0.60
5:E:520:LYS:HB2	5:E:527:LEU:HD22	1.83	0.60
8:2:219:THR:CB	8:2:223:GLY:HA2	2.30	0.60
8:2:580:VAL:HG11	8:2:592:GLU:N	2.17	0.60
8:2:776:PRO:HA	8:2:827:GLU:C	2.22	0.60
9:3:152:PRO:CB	9:3:154:LYS:HE3	2.32	0.60
9:3:338:ALA:HB3	9:3:339:ARG:HA	1.82	0.60
9:3:367:LEU:HA	9:3:421:PHE:CZ	2.37	0.60
10:4:224:LEU:HD11	10:4:227:ILE:CG1	2.32	0.60
10:4:830:ARG:O	10:4:834:LYS:HG2	2.01	0.60
11:5:296:GLY:HA3	11:5:329:LYS:O	2.01	0.60
11:5:389:VAL:HA	11:5:392:LEU:CD1	2.31	0.60
12:6:765:LEU:HD12	12:6:819:ILE:HB	1.84	0.60
1:A:188:GLN:HG3	5:E:58:ILE:HD12	1.84	0.60
3:C:15:GLU:HB3	3:C:45:SER:HB2	1.84	0.60
5:E:525:TYR:HE1	5:E:568:VAL:HG21	1.67	0.60
8:2:548:ALA:O	8:2:552:ILE:HD12	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:569:GLN:C	8:2:571:ALA:HA	2.23	0.59
8:2:621:HIS:HB2	8:2:673:ILE:CG1	2.21	0.59
8:2:705:ARG:CB	12:6:559:THR:HB	2.26	0.59
10:4:262:LEU:O	10:4:324:LYS:HG2	2.01	0.59
10:4:347:PHE:CE1	10:4:384:LEU:HD12	2.38	0.59
10:4:654:ILE:HB	10:4:665:LEU:CD1	2.31	0.59
11:5:412:VAL:O	11:5:521:ALA:N	2.32	0.59
11:5:633:LEU:HB2	11:5:648:ILE:CD1	2.29	0.59
11:5:631:LYS:O	11:5:635:ILE:HG13	2.02	0.59
12:6:143:MET:HE2	12:6:150:THR:HG22	1.83	0.59
13:7:116:LEU:O	13:7:119:ARG:HG2	2.02	0.59
13:7:269:VAL:HG11	13:7:281:LEU:HD21	1.84	0.59
13:7:618:TYR:CE2	13:7:625:GLN:HA	2.37	0.59
1:A:149:ILE:HD13	4:D:144:ILE:HD11	1.82	0.59
1:A:158:PRO:O	1:A:159:SER:OG	2.17	0.59
1:A:166:ARG:HA	1:A:188:GLN:HA	1.83	0.59
1:A:175:GLN:HG3	1:A:181:PHE:H	1.66	0.59
4:D:258:VAL:HG13	4:D:259:THR:C	2.23	0.59
5:E:15:ILE:O	5:E:19:SER:OG	2.20	0.59
7:G:8:DG:H2'	7:G:9:DA:C8	2.37	0.59
8:2:314:LEU:HD12	8:2:315:SER:HB3	1.84	0.59
8:2:333:GLN:HG3	8:2:335:LYS:H	1.66	0.59
8:2:553:LEU:HD12	8:2:554:LYS:N	2.17	0.59
8:2:581:ARG:HD3	8:2:634:ALA:CB	2.16	0.59
9:3:446:VAL:HB	9:3:456:ARG:O	2.02	0.59
9:3:48:TYR:CD2	9:3:92:LEU:HG	2.37	0.59
9:3:518:PRO:CB	9:3:524:ASP:HB2	2.32	0.59
10:4:314:MET:HG2	10:4:413:HIS:HD2	1.67	0.59
10:4:602:THR:CA	10:4:619:GLY:HA3	2.31	0.59
11:5:172:LEU:HD21	11:5:283:THR:HB	1.83	0.59
11:5:667:GLU:OE2	11:5:673:GLN:NE2	2.35	0.59
11:5:378:ILE:HA	14:5:801:ATP:N1	2.17	0.59
12:6:185:LEU:O	12:6:189:VAL:HG23	2.02	0.59
12:6:355:ASP:CB	12:6:356:TRP:HB3	2.32	0.59
10:4:912:GLN:NE2	12:6:700:ASN:OD1	2.34	0.59
12:6:806:LEU:O	12:6:810:ILE:HG13	2.02	0.59
13:7:491:VAL:HA	13:7:494:THR:CG2	2.31	0.59
1:A:12:GLU:O	1:A:15:ARG:HG2	2.01	0.59
4:D:218:MET:H	4:D:219:ILE:HB	1.65	0.59
5:E:344:VAL:HG13	5:E:348:LEU:CD1	2.32	0.59
8:2:341:CYS:SG	8:2:348:LEU:HD22	2.42	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:511:ILE:O	8:2:515:VAL:HG23	2.02	0.59
8:2:569:GLN:NE2	8:2:616:ASP:OD2	2.35	0.59
8:2:671:GLU:HB3	8:2:672:PRO:HD3	1.84	0.59
9:3:291:ARG:HB3	9:3:329:LEU:HD11	1.84	0.59
10:4:223:GLU:HB3	10:4:228:LYS:CE	2.32	0.59
10:4:419:VAL:CG1	10:4:463:VAL:HG11	2.33	0.59
11:5:261:ILE:HG23	11:5:291:ARG:HH12	1.68	0.59
11:5:374:ILE:HD11	11:5:389:VAL:HG22	1.83	0.59
11:5:453:VAL:HB	11:5:506:LYS:CD	2.32	0.59
12:6:277:ARG:HD3	12:6:367:GLU:OE2	2.01	0.59
12:6:776:LYS:CA	12:6:779:GLU:HG2	2.32	0.59
12:6:695:LEU:CB	12:6:838:VAL:HG13	2.23	0.59
13:7:517:ASP:HA	13:7:561:THR:HG22	1.84	0.59
13:7:517:ASP:N	13:7:561:THR:HG22	2.17	0.59
13:7:581:LEU:HD23	13:7:581:LEU:O	2.01	0.59
1:A:168:LEU:N	1:A:168:LEU:HD22	2.17	0.59
1:A:192:ARG:HH12	4:D:130:GLU:HG3	1.64	0.59
5:E:150:ASP:N	5:E:152:LEU:HB3	2.15	0.59
5:E:46:SER:O	5:E:50:LYS:HG3	2.02	0.59
5:E:559:SER:HA	5:E:560:GLU:CB	2.28	0.59
5:E:632:ILE:CG1	5:E:637:LEU:HB3	2.32	0.59
8:2:409:ILE:HB	8:2:452:GLU:HB2	1.84	0.59
8:2:695:LEU:HD11	14:2:901:ATP:C6	2.36	0.59
9:3:408:VAL:HA	9:3:415:LYS:HZ3	1.66	0.59
9:3:475:PHE:O	9:3:483:ARG:NH1	2.35	0.59
9:3:500:ALA:H	9:3:501:GLY:HA3	1.67	0.59
9:3:500:ALA:HB3	9:3:501:GLY:CA	2.32	0.59
10:4:420:TYR:C	10:4:424:VAL:HG23	2.22	0.59
10:4:633:GLU:OE1	10:4:636:LYS:HD2	2.02	0.59
11:5:35:ILE:O	11:5:47:ARG:HB2	2.02	0.59
12:6:134:LYS:HG2	12:6:137:ARG:CG	2.32	0.59
12:6:510:SER:O	12:6:513:ILE:HG22	2.02	0.59
13:7:142:ILE:HG22	13:7:146:ARG:HE	1.67	0.59
13:7:232:GLY:O	13:7:235:LEU:HD13	2.01	0.59
13:7:537:ILE:HA	13:7:540:VAL:CB	2.33	0.59
2:B:17:GLN:CB	2:B:121:VAL:HG11	2.32	0.59
4:D:172:THR:HG21	4:D:177:LYS:NZ	2.18	0.59
4:D:267:VAL:H	4:D:268:GLU:HA	1.67	0.59
5:E:503:GLN:HA	5:E:506:ILE:CB	2.23	0.59
5:E:511:VAL:HA	5:E:514:LEU:HG	1.83	0.59
6:F:10:DT:H2'	6:F:11:DC:H6	1.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:23:DT:H1'	6:F:24:DT:C4	2.37	0.59
8:2:337:VAL:O	8:2:351:PHE:N	2.35	0.59
8:2:657:TYR:O	10:4:928:ARG:NH2	2.35	0.59
9:3:172:THR:HA	9:3:175:HIS:H	1.66	0.59
10:4:224:LEU:HD11	10:4:227:ILE:HG12	1.83	0.59
10:4:433:ILE:HG22	10:4:435:VAL:HG23	1.84	0.59
10:4:656:ILE:N	10:4:663:THR:O	2.23	0.59
10:4:722:LYS:HA	10:4:725:THR:CB	2.32	0.59
11:5:151:LEU:HD11	11:5:274:LEU:HD11	1.84	0.59
9:3:315:ILE:HG22	11:5:255:PHE:CZ	2.36	0.59
11:5:673:GLN:O	11:5:677:VAL:HG23	2.02	0.59
11:5:90:PHE:C	11:5:94:ILE:HD12	2.23	0.59
11:5:97:VAL:HA	11:5:100:ARG:CG	2.32	0.59
12:6:142:PHE:HA	12:6:145:ILE:HG12	1.84	0.59
12:6:653:HIS:HB2	12:6:705:ILE:CG2	2.30	0.59
13:7:458:LEU:HB2	13:7:566:ALA:CB	2.32	0.59
13:7:539:GLU:OE2	13:7:545:THR:HB	2.03	0.59
4:D:144:ILE:HG13	4:D:145:ARG:N	2.17	0.59
4:D:204:GLU:HA	4:D:207:GLN:CD	2.22	0.59
4:D:264:LYS:HG2	4:D:265:GLU:H	1.67	0.59
5:E:347:LYS:CD	5:E:401:LEU:HD23	2.32	0.59
8:2:320:VAL:N	8:2:426:VAL:O	2.23	0.59
8:2:506:TYR:HD2	8:2:695:LEU:HD12	1.68	0.59
8:2:589:TRP:CG	8:2:590:THR:N	2.70	0.59
9:3:562:SER:C	9:3:566:LEU:HG	2.23	0.59
10:4:311:CYS:CB	10:4:326:ILE:HG23	2.32	0.59
10:4:344:VAL:O	10:4:389:CYS:HB2	2.03	0.59
10:4:634:PHE:HA	10:4:637:MET:CG	2.32	0.59
11:5:182:MET:SD	11:5:187:ARG:HD3	2.43	0.59
11:5:156:VAL:HA	11:5:298:TYR:O	2.02	0.59
11:5:50:LEU:HD22	11:5:101:ILE:CD1	2.32	0.59
11:5:530:TYR:HD1	11:5:533:LEU:HD12	1.67	0.59
12:6:398:THR:OG1	12:6:458:HIS:HB3	2.02	0.59
12:6:580:SER:HB2	12:6:583:GLN:HG2	1.84	0.59
13:7:88:TYR:HA	13:7:91:GLU:CB	2.32	0.59
1:A:106:GLY:H	1:A:107:LEU:HD13	1.67	0.59
1:A:27:VAL:HG11	1:A:100:MET:SD	2.43	0.59
2:B:74:TRP:CZ3	2:B:75:ILE:HG22	2.37	0.59
2:B:187:GLU:OE2	3:C:176:ILE:HG22	2.03	0.59
3:C:18:CYS:CB	3:C:74:LEU:HD23	2.33	0.59
4:D:67:TRP:O	4:D:70:GLU:HB3	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:349:SER:HA	5:E:351:TRP:CZ3	2.38	0.59
8:2:786:VAL:O	8:2:790:TYR:N	2.34	0.59
9:3:676:ILE:O	9:3:680:VAL:HG23	2.03	0.59
10:4:419:VAL:HG12	10:4:463:VAL:CG1	2.32	0.59
10:4:442:ILE:HD13	10:4:460:TYR:CE2	2.37	0.59
10:4:818:GLU:HG3	10:4:820:GLU:H	1.66	0.59
11:5:303:SER:C	11:5:304:LYS:HG3	2.21	0.59
11:5:31:PHE:O	11:5:35:ILE:N	2.35	0.59
11:5:348:MET:HA	11:5:348:MET:CE	2.31	0.59
11:5:455:ARG:HG2	11:5:462:PHE:CD1	2.37	0.59
11:5:570:ASN:O	11:5:574:ASN:ND2	2.36	0.59
12:6:194:PRO:O	12:6:261:ARG:NE	2.33	0.59
10:4:613:GLN:HB2	12:6:360:ARG:HH12	1.68	0.59
13:7:17:LEU:HD23	13:7:102:LEU:CD2	2.31	0.59
13:7:220:ILE:HA	13:7:223:LYS:NZ	2.16	0.59
13:7:428:VAL:HA	13:7:598:PHE:CE2	2.38	0.59
1:A:175:GLN:HB3	1:A:180:VAL:HA	1.84	0.59
2:B:10:THR:OG1	2:B:179:ASN:OD1	2.19	0.59
3:C:35:GLY:N	3:C:36:ARG:HA	2.17	0.59
5:E:581:VAL:O	5:E:630:ILE:N	2.31	0.59
5:E:361:LYS:HB2	8:2:236:GLU:OE2	2.03	0.59
8:2:311:GLU:HG3	12:6:353:PHE:O	2.02	0.59
9:3:214:TYR:OH	9:3:231:TYR:HA	2.02	0.59
9:3:47:VAL:O	9:3:51:ASN:N	2.34	0.59
9:3:675:ALA:HA	9:3:723:LYS:HA	1.85	0.59
10:4:342:MET:HE2	12:6:448:LEU:CD1	2.32	0.59
10:4:342:MET:HG3	12:6:417:PRO:CG	2.32	0.59
10:4:607:ARG:CA	10:4:614:LEU:HD23	2.33	0.59
12:6:747:SER:O	12:6:750:GLN:HG2	2.03	0.59
13:7:401:VAL:O	13:7:405:ILE:HG13	2.03	0.59
13:7:484:THR:HA	13:7:524:ASP:H	1.68	0.59
1:A:159:SER:CB	1:A:160:ASP:HB2	2.32	0.59
1:A:67:VAL:CG1	3:C:25:PRO:HD2	2.21	0.59
5:E:357:LYS:O	8:2:236:GLU:HG2	2.02	0.59
5:E:324:TYR:CE1	5:E:405:ILE:HG13	2.38	0.59
8:2:337:VAL:HG23	8:2:353:GLN:O	2.03	0.59
8:2:423:GLU:HB2	8:2:459:ARG:CB	2.23	0.59
8:2:441:LYS:NZ	8:2:443:GLY:O	2.32	0.59
10:4:564:ILE:O	10:4:672:LEU:HG	2.02	0.59
10:4:718:ARG:O	10:4:722:LYS:N	2.36	0.59
10:4:729:LEU:CB	10:4:730:GLU:HA	2.29	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:368:GLU:HA	11:5:371:THR:HG23	1.84	0.59
11:5:407:ARG:HG3	11:5:658:ARG:NH1	2.18	0.59
11:5:586:GLN:O	11:5:590:ASN:N	2.29	0.59
11:5:617:GLN:HA	11:5:620:GLU:HG2	1.85	0.59
12:6:158:LEU:HD11	12:6:166:LEU:HD22	1.85	0.59
12:6:603:SER:N	12:6:604:SER:CA	2.64	0.59
12:6:721:GLU:HA	12:6:724:ASP:HB2	1.85	0.59
12:6:775:GLU:O	12:6:779:GLU:N	2.20	0.59
13:7:490:GLY:N	13:7:533:ASP:OD1	2.36	0.59
4:D:189:ILE:HD12	4:D:192:LYS:CB	2.31	0.59
5:E:10:GLU:HA	5:E:13:ASN:HB2	1.84	0.59
5:E:335:TYR:HB2	5:E:373:ALA:CB	2.32	0.59
5:E:520:LYS:N	5:E:527:LEU:O	2.23	0.59
9:3:18:ASP:OD2	9:3:20:VAL:HB	2.03	0.59
9:3:212:ARG:CZ	9:3:232:PRO:HB3	2.33	0.59
9:3:353:LEU:O	9:3:359:ILE:HG21	2.03	0.59
9:3:356:LYS:CB	9:3:359:ILE:HG23	2.27	0.59
9:3:48:TYR:HA	9:3:51:ASN:ND2	2.18	0.59
10:4:656:ILE:O	10:4:663:THR:N	2.20	0.59
10:4:557:ARG:NH1	10:4:668:ARG:HB3	2.18	0.59
11:5:138:ILE:HG23	11:5:332:GLY:CA	2.33	0.59
11:5:566:ILE:HA	11:5:569:ALA:HB3	1.83	0.59
12:6:158:LEU:HD13	12:6:170:ILE:CD1	2.30	0.59
12:6:533:ILE:HG21	12:6:544:LYS:HB3	1.84	0.59
12:6:614:ARG:HG2	12:6:615:ASP:CA	2.33	0.59
13:7:366:LEU:O	13:7:368:ALA:HB3	2.03	0.59
13:7:636:SER:HA	13:7:639:ARG:HH21	1.68	0.59
2:B:160:LEU:HD11	2:B:184:PHE:CE2	2.38	0.59
2:B:168:LEU:HB3	2:B:170:LEU:CD2	2.33	0.59
2:B:52:LEU:HB2	4:D:125:PRO:HB2	1.84	0.59
5:E:425:VAL:HA	5:E:428:LEU:HD12	1.83	0.59
9:3:519:VAL:HG21	9:3:531:GLN:O	2.03	0.58
10:4:564:ILE:HD11	10:4:703:ASP:OD2	2.03	0.58
10:4:545:PHE:HB3	10:4:810:LYS:HD2	1.85	0.58
11:5:276:MET:HB3	11:5:330:ILE:CG1	2.33	0.58
11:5:633:LEU:O	11:5:637:GLU:HG3	2.03	0.58
12:6:158:LEU:HD21	12:6:166:LEU:HD22	1.86	0.58
12:6:606:ALA:HB2	12:6:609:THR:CB	2.23	0.58
12:6:828:TYR:OH	12:6:832:ARG:NH2	2.36	0.58
13:7:17:LEU:O	13:7:21:ILE:N	2.36	0.58
13:7:514:VAL:HG22	13:7:546:ILE:HD12	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:583:ASN:OD1	13:7:584:ILE:HG13	2.03	0.58
3:C:101:ASN:HD21	3:C:104:PHE:HD1	1.51	0.58
2:B:157:LEU:HD11	3:C:137:HIS:CD2	2.38	0.58
3:C:79:MET:O	3:C:84:VAL:HG11	2.03	0.58
4:D:199:LEU:HD13	4:D:202:MET:CE	2.33	0.58
5:E:344:VAL:CG1	5:E:348:LEU:HD12	2.33	0.58
5:E:434:VAL:HG22	5:E:435:GLY:N	2.16	0.58
6:F:22:DT:H2'	6:F:23:DT:C5	2.38	0.58
8:2:343:LYS:HB2	8:2:371:GLY:CA	2.31	0.58
8:2:399:PRO:HB2	12:6:630:LEU:CB	2.33	0.58
8:2:663:LEU:HA	8:2:666:ASN:HB2	1.85	0.58
8:2:609:PHE:HE2	8:2:677:PHE:HZ	1.51	0.58
10:4:568:GLY:HA3	10:4:708:VAL:CB	2.19	0.58
11:5:440:SER:CA	11:5:480:ASP:HB2	2.31	0.58
12:6:340:ASN:HA	12:6:341:ARG:CB	2.32	0.58
12:6:357:GLN:CG	12:6:381:LEU:HD12	2.33	0.58
12:6:819:ILE:HG22	12:6:820:THR:N	2.08	0.58
13:7:262:CYS:SG	13:7:296:GLY:HA3	2.44	0.58
2:B:80:LYS:HE3	2:B:130:ALA:HA	1.85	0.58
8:2:255:ILE:HD12	8:2:256:LEU:N	2.18	0.58
8:2:562:ARG:HD3	8:2:599:ALA:HB1	1.83	0.58
8:2:614:ASP:OD1	8:2:617:ARG:NH1	2.36	0.58
8:2:632:SER:HA	11:5:447:ALA:O	2.03	0.58
8:2:794:ARG:HH11	11:5:560:HIS:HA	1.68	0.58
9:3:375:ASP:HA	9:3:378:LYS:CG	2.33	0.58
9:3:439:GLY:CA	9:3:442:LEU:HB2	2.32	0.58
9:3:470:VAL:CG2	9:3:512:VAL:HG22	2.33	0.58
9:3:475:PHE:HB2	9:3:514:ALA:HB1	1.86	0.58
9:3:520:PHE:HB3	9:3:527:ARG:HH22	1.67	0.58
10:4:332:VAL:HG13	10:4:397:ILE:CG2	2.33	0.58
10:4:546:GLY:HA2	10:4:807:ALA:CB	2.32	0.58
11:5:72:ASN:ND2	11:5:75:ILE:HG13	2.19	0.58
12:6:611:ALA:HB3	12:6:613:VAL:N	2.17	0.58
13:7:453:ASP:O	13:7:694:ARG:NH2	2.35	0.58
1:A:144:GLY:O	1:A:146:LEU:HB3	2.04	0.58
4:D:176:SER:HB3	4:D:179:GLU:CG	2.32	0.58
4:D:189:ILE:HA	4:D:192:LYS:CG	2.33	0.58
4:D:259:THR:HG22	4:D:269:LEU:CD2	2.33	0.58
4:D:69:ASN:O	4:D:73:SER:N	2.36	0.58
5:E:164:GLU:OE1	5:E:164:GLU:N	2.36	0.58
8:2:582:LYS:CA	8:2:583:ASP:HB2	2.13	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:593:GLY:CA	8:2:597:VAL:HG21	2.24	0.58
8:2:626:GLN:HG3	8:2:628:SER:H	1.68	0.58
9:3:194:PRO:HG3	13:7:374:THR:CG2	2.30	0.58
10:4:308:VAL:HG11	10:4:325:LEU:CD1	2.33	0.58
10:4:433:ILE:HG22	10:4:435:VAL:H	1.68	0.58
12:6:175:TYR:CA	12:6:178:LEU:HD13	2.30	0.58
12:6:548:LEU:HD12	12:6:548:LEU:H	1.69	0.58
13:7:240:THR:HA	13:7:351:VAL:O	2.02	0.58
13:7:440:VAL:H	13:7:697:GLN:HG2	1.69	0.58
1:A:100:MET:HE1	1:A:117:GLN:HA	1.84	0.58
2:B:163:LEU:CB	2:B:189:MET:HE1	2.22	0.58
3:C:23:ASP:OD1	3:C:37:PRO:HB2	2.03	0.58
5:E:326:LEU:HD11	5:E:334:LEU:CD1	2.33	0.58
5:E:466:LEU:HD12	5:E:467:THR:N	2.18	0.58
5:E:60:PRO:HB3	5:E:477:PHE:CE2	2.38	0.58
8:2:541:LEU:HB3	8:2:649:ALA:HA	1.85	0.58
8:2:580:VAL:HG11	8:2:592:GLU:H	1.69	0.58
9:3:43:ARG:HD2	9:3:46:GLN:HB2	1.85	0.58
10:4:281:VAL:O	10:4:285:VAL:HG13	2.03	0.58
11:5:32:LYS:HA	11:5:35:ILE:HB	1.84	0.58
11:5:450:THR:CG2	11:5:489:ASP:HB2	2.28	0.58
9:3:553:ILE:HD13	11:5:630:ARG:HD2	1.85	0.58
12:6:120:GLU:O	12:6:134:LYS:NZ	2.29	0.58
12:6:709:PHE:HB2	12:6:712:PHE:CE1	2.38	0.58
13:7:393:LEU:HB2	13:7:395:SER:H	1.65	0.58
13:7:689:LEU:O	13:7:692:ILE:HG22	2.04	0.58
1:A:106:GLY:H	1:A:107:LEU:CB	2.16	0.58
1:A:147:VAL:N	1:A:148:ASP:HA	2.08	0.58
2:B:119:TRP:HA	2:B:122:LEU:HD12	1.85	0.58
3:C:80:PHE:HZ	3:C:108:ALA:HA	1.68	0.58
8:2:501:MET:HG2	8:2:512:LYS:CB	2.26	0.58
9:3:103:LEU:CD1	9:3:114:ILE:HD12	2.34	0.58
10:4:524:ARG:HG3	10:4:742:LEU:HD23	1.85	0.58
8:2:808:ARG:HG2	14:5:801:ATP:H4'	1.86	0.58
12:6:134:LYS:HG2	12:6:137:ARG:CD	2.34	0.58
12:6:640:GLU:CA	12:6:682:ALA:HA	2.32	0.58
12:6:658:GLN:HG3	12:6:660:THR:O	2.03	0.58
13:7:135:LYS:HA	13:7:136:ASP:CB	2.30	0.58
13:7:234:PHE:HA	13:7:237:GLN:CD	2.24	0.58
13:7:361:THR:O	13:7:364:LYS:HG3	2.04	0.58
13:7:361:THR:OG1	13:7:362:GLY:N	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:526:PHE:HB3	13:7:567:ALA:HB2	1.83	0.58
13:7:78:VAL:N	13:7:201:PHE:O	2.37	0.58
3:C:50:LEU:C	3:C:54:LEU:HG	2.24	0.58
5:E:127:ARG:HG2	5:E:248:VAL:HG23	1.86	0.58
5:E:275:LEU:HD22	5:E:424:PHE:CD2	2.39	0.58
5:E:29:ILE:CD1	5:E:58:ILE:HG23	2.27	0.58
6:F:19:DT:H5'	9:3:448:THR:HG22	1.86	0.58
8:2:670:THR:OG1	8:2:672:PRO:HD2	2.03	0.58
8:2:514:ALA:HB1	8:2:679:ILE:HG21	1.84	0.58
8:2:842:VAL:O	8:2:846:VAL:HG23	2.03	0.58
9:3:129:LEU:CD2	9:3:153:TRP:HB3	2.30	0.58
9:3:699:ALA:O	9:3:703:GLU:HG3	2.03	0.58
10:4:578:LEU:HD13	10:4:630:CYS:HB3	1.86	0.58
11:5:441:GLY:HA3	11:5:442:LYS:C	2.23	0.58
12:6:656:MET:HA	12:6:656:MET:HE3	1.84	0.58
1:A:38:ARG:O	1:A:42:LYS:N	2.34	0.58
1:A:83:LYS:HG2	1:A:87:LEU:HD21	1.84	0.58
2:B:193:ARG:HB2	4:D:227:PHE:CE2	2.38	0.58
5:E:410:VAL:HG13	5:E:419:ILE:O	2.03	0.58
5:E:608:ALA:HB2	5:E:649:LEU:HD13	1.84	0.58
8:2:266:GLU:N	8:2:266:GLU:OE1	2.30	0.58
8:2:431:LYS:HB2	8:2:433:ASN:CG	2.24	0.58
9:3:200:VAL:HG13	9:3:210:HIS:O	2.03	0.58
9:3:293:ASN:O	9:3:326:VAL:HA	2.04	0.58
9:3:179:LEU:HG	9:3:296:GLY:HA2	1.85	0.58
9:3:459:ALA:HB1	9:3:463:VAL:HB	1.85	0.58
9:3:535:LEU:HB2	9:3:539:LEU:CD1	2.34	0.58
10:4:687:PRO:HB2	10:4:690:GLU:HB3	1.85	0.58
11:5:257:LYS:HA	11:5:275:THR:HA	1.86	0.58
11:5:504:ILE:O	11:5:510:THR:HA	2.03	0.58
13:7:367:LYS:HA	13:7:368:ALA:O	2.04	0.58
1:A:139:THR:HA	1:A:142:LYS:CD	2.34	0.58
3:C:12:ASP:CA	3:C:48:LEU:HB3	2.22	0.58
4:D:56:PRO:HA	4:D:59:ASP:HB2	1.86	0.58
5:E:287:VAL:HG12	5:E:291:LEU:CD2	2.34	0.58
5:E:297:ASP:O	5:E:301:ARG:HG3	2.03	0.58
5:E:89:VAL:HG12	5:E:90:ILE:HD12	1.86	0.58
8:2:365:THR:CB	8:2:373:PHE:HE1	2.17	0.58
8:2:544:ASP:HB3	8:2:547:THR:OG1	2.04	0.58
9:3:277:ILE:HD12	9:3:322:LEU:HD21	1.86	0.58
9:3:294:VAL:HA	9:3:326:VAL:HA	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:38:TYR:OH	9:3:99:SER:N	2.25	0.58
9:3:520:PHE:HB3	9:3:527:ARG:NH2	2.19	0.58
10:4:721:ALA:HA	10:4:724:LEU:HB2	1.85	0.58
11:5:166:ILE:HD11	11:5:256:LEU:HD23	1.86	0.58
11:5:369:ILE:HG23	11:5:370:LEU:HD12	1.85	0.58
11:5:398:LYS:HB2	11:5:406:LEU:HD13	1.85	0.58
12:6:530:VAL:HG22	12:6:545:LYS:HG2	1.85	0.58
12:6:600:GLY:O	12:6:644:MET:HG3	2.03	0.58
12:6:778:LYS:O	12:6:782:LYS:HG3	2.04	0.58
12:6:791:SER:HA	12:6:838:VAL:HG12	1.86	0.58
13:7:414:LEU:O	13:7:418:ILE:HD12	2.03	0.58
13:7:89:GLN:O	13:7:93:PHE:HB2	2.02	0.58
1:A:32:TYR:HA	1:A:93:ARG:NH1	2.19	0.58
2:B:155:LYS:CA	2:B:158:LYS:HG2	2.33	0.58
4:D:258:VAL:HA	4:D:259:THR:OG1	2.03	0.58
5:E:158:ALA:HB2	5:E:237:LEU:HD13	1.86	0.58
5:E:98:ILE:H	5:E:99:ASP:HB3	1.69	0.58
8:2:277:GLU:HA	8:2:280:GLU:HB3	1.85	0.58
8:2:394:PRO:HA	8:2:397:VAL:HG23	1.84	0.58
8:2:481:GLU:O	8:2:485:ARG:HG2	2.04	0.58
8:2:496:LYS:O	8:2:500:SER:N	2.36	0.58
8:2:846:VAL:HG13	8:2:853:VAL:CG2	2.34	0.58
10:4:195:ARG:O	10:4:199:MET:HG2	2.04	0.58
10:4:433:ILE:HG12	10:4:469:VAL:HA	1.86	0.58
11:5:51:ARG:HA	11:5:54:ILE:CD1	2.33	0.58
11:5:565:ASP:O	11:5:569:ALA:N	2.32	0.58
12:6:162:GLU:HG2	12:6:166:LEU:CB	2.32	0.58
12:6:186:ARG:HA	12:6:189:VAL:HB	1.86	0.58
12:6:588:VAL:HA	12:6:591:PHE:CB	2.26	0.58
12:6:803:MET:CE	12:6:828:TYR:HA	2.34	0.58
13:7:78:VAL:HB	13:7:202:LEU:HA	1.85	0.58
13:7:228:ARG:HH22	13:7:326:HIS:HB2	1.68	0.58
13:7:546:ILE:HD11	13:7:559:ALA:HB2	1.86	0.58
2:B:90:PRO:HB3	2:B:92:TRP:NE1	2.18	0.58
5:E:342:ASN:ND2	5:E:551:TRP:HA	2.19	0.58
5:E:28:VAL:CG2	5:E:57:GLN:HB3	2.28	0.58
8:2:286:TYR:O	8:2:289:ILE:N	2.29	0.57
8:2:609:PHE:HA	8:2:612:MET:HG3	1.86	0.57
9:3:348:ARG:O	9:3:352:LYS:N	2.33	0.57
10:4:248:LEU:HB2	10:4:258:TYR:HD1	1.67	0.57
10:4:642:ARG:HD3	10:4:698:LEU:CD2	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:645:LEU:O	10:4:649:MET:N	2.34	0.57
10:4:603:ALA:CB	10:4:658:LYS:HE2	2.32	0.57
10:4:688:VAL:HG22	10:4:838:THR:CG2	2.33	0.57
10:4:718:ARG:O	10:4:722:LYS:HG2	2.04	0.57
11:5:428:PHE:O	11:5:432:VAL:HG23	2.04	0.57
12:6:517:LYS:CA	12:6:520:VAL:HG22	2.31	0.57
12:6:753:ARG:HA	12:6:756:LYS:NZ	2.19	0.57
13:7:284:CYS:HB2	13:7:296:GLY:O	2.04	0.57
13:7:344:SER:HB3	13:7:345:PRO:HD2	1.86	0.57
13:7:364:LYS:O	13:7:367:LYS:N	2.37	0.57
13:7:441:ASP:HA	13:7:452:GLY:CA	2.34	0.57
3:C:97:LEU:HD13	3:C:105:PHE:HE2	1.67	0.57
5:E:381:ASP:HB2	5:E:384:ILE:CG1	2.30	0.57
8:2:327:ARG:HH12	8:2:420:PRO:CD	2.17	0.57
9:3:485:ALA:O	9:3:489:VAL:N	2.37	0.57
9:3:737:LEU:C	9:3:738:LEU:HD12	2.24	0.57
10:4:311:CYS:SG	10:4:326:ILE:HG23	2.44	0.57
10:4:657:ALA:HA	10:4:662:ILE:HA	1.85	0.57
9:3:440:VAL:HA	11:5:505:ALA:HB1	1.85	0.57
12:6:119:LEU:HD12	12:6:120:GLU:N	2.19	0.57
12:6:179:PRO:HA	12:6:182:GLN:NE2	2.19	0.57
12:6:326:LYS:H	12:6:327:TYR:HA	1.69	0.57
13:7:353:GLY:HA2	13:7:379:GLN:CB	2.34	0.57
13:7:529:MET:HE2	13:7:533:ASP:CB	2.34	0.57
9:3:695:SER:HB3	13:7:573:ARG:HH12	1.67	0.57
1:A:102:TRP:CH2	4:D:148:LEU:HD13	2.39	0.57
2:B:155:LYS:HA	2:B:158:LYS:CD	2.33	0.57
2:B:10:THR:CB	2:B:182:ARG:HD2	2.35	0.57
4:D:260:ILE:HG13	4:D:266:GLU:HG3	1.85	0.57
5:E:541:ASN:HB3	5:E:544:THR:OG1	2.04	0.57
5:E:600:PRO:HB2	5:E:602:LEU:HD12	1.86	0.57
8:2:307:ARG:CB	8:2:404:ARG:HD2	2.34	0.57
8:2:441:LYS:CA	8:2:442:ASN:HB2	2.34	0.57
8:2:518:SER:CB	8:2:537:ILE:HB	2.34	0.57
8:2:758:ILE:HG23	8:2:759:PRO:HD2	1.86	0.57
9:3:100:LEU:HB2	9:3:160:SER:HB2	1.87	0.57
9:3:31:PHE:CG	9:3:32:LEU:HA	2.40	0.57
9:3:429:ALA:HB3	9:3:469:VAL:O	2.05	0.57
10:4:417:LEU:HD13	10:4:419:VAL:CG1	2.34	0.57
10:4:542:LEU:HD11	10:4:828:LEU:CD1	2.34	0.57
11:5:411:ASN:HB2	11:5:550:PHE:HA	1.84	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:65:MET:HA	11:5:68:LEU:HG	1.87	0.57
12:6:266:SER:HB2	12:6:458:HIS:CD2	2.39	0.57
12:6:287:LEU:HD11	12:6:398:THR:CG2	2.35	0.57
12:6:377:LEU:HD22	12:6:452:ILE:HG21	1.85	0.57
13:7:343:LEU:HD21	13:7:381:VAL:HG11	1.86	0.57
13:7:383:GLN:HB2	13:7:386:LYS:NZ	2.18	0.57
13:7:441:ASP:H	13:7:452:GLY:HA2	1.69	0.57
13:7:454:ILE:HG22	13:7:456:VAL:HG23	1.86	0.57
13:7:654:GLU:HA	13:7:657:ASN:CB	2.34	0.57
1:A:166:ARG:HG3	1:A:187:SER:C	2.24	0.57
2:B:20:VAL:HG21	2:B:118:ASN:HB2	1.86	0.57
2:B:119:TRP:HA	2:B:122:LEU:CG	2.34	0.57
3:C:97:LEU:O	3:C:100:ILE:HG12	2.03	0.57
4:D:125:PRO:HA	4:D:128:CYS:HB3	1.86	0.57
4:D:151:ILE:HA	4:D:158:LEU:HD11	1.86	0.57
5:E:134:ILE:HA	5:E:142:CYS:CB	2.34	0.57
8:2:766:TYR:OH	8:2:823:MET:O	2.23	0.57
9:3:112:SER:O	9:3:116:VAL:N	2.36	0.57
9:3:196:LEU:HD12	9:3:250:PHE:CE1	2.40	0.57
9:3:254:GLN:HG2	9:3:278:LEU:HD12	1.87	0.57
9:3:42:VAL:O	9:3:46:GLN:HG2	2.04	0.57
10:4:607:ARG:HA	10:4:614:LEU:CA	2.16	0.57
10:4:701:ARG:HG3	10:4:796:ARG:NH2	2.19	0.57
11:5:163:SER:HA	11:5:293:THR:HA	1.86	0.57
9:3:370:SER:OG	11:5:404:MET:SD	2.63	0.57
11:5:422:LYS:O	11:5:425:LEU:HB3	2.03	0.57
9:3:570:ARG:HD2	11:5:614:LEU:HD12	1.85	0.57
11:5:626:PHE:O	11:5:630:ARG:N	2.23	0.57
12:6:732:VAL:HA	12:6:735:HIS:HD2	1.67	0.57
12:6:792:SER:HA	12:6:793:TYR:CB	2.22	0.57
13:7:435:LEU:HD13	13:7:454:ILE:CB	2.32	0.57
13:7:457:CYS:O	13:7:597:LEU:HA	2.05	0.57
13:7:607:ASP:O	13:7:611:LYS:HG3	2.05	0.57
13:7:581:LEU:CB	13:7:681:PHE:HE1	2.12	0.57
2:B:56:ASP:N	2:B:56:ASP:OD1	2.36	0.57
2:B:57:ASP:OD1	2:B:58:LYS:N	2.36	0.57
2:B:79:LEU:HD22	2:B:84:LYS:HB2	1.86	0.57
4:D:78:PRO:CA	4:D:174:LEU:HD12	2.31	0.57
5:E:226:ARG:O	5:E:230:ILE:HG13	2.03	0.57
5:E:25:CYS:H	5:E:26:GLN:CB	2.16	0.57
5:E:345:ASN:O	5:E:349:SER:N	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:581:VAL:HB	5:E:630:ILE:CG1	2.34	0.57
5:E:604:ASN:CB	5:E:650:LEU:HD23	2.33	0.57
8:2:307:ARG:HB3	8:2:404:ARG:HD2	1.86	0.57
8:2:548:ALA:HA	14:2:901:ATP:H5'1	1.86	0.57
9:3:40:ASP:HA	9:3:43:ARG:HB3	1.84	0.57
10:4:292:ASP:CA	10:4:293:LEU:HD12	2.34	0.57
12:6:136:TYR:O	12:6:139:GLN:HB3	2.04	0.57
12:6:416:LYS:HE3	12:6:449:THR:HG21	1.86	0.57
12:6:781:ARG:CD	12:6:795:ILE:HB	2.35	0.57
13:7:21:ILE:O	13:7:25:LEU:HG	2.04	0.57
13:7:335:VAL:HG11	13:7:340:VAL:HA	1.85	0.57
13:7:536:ALA:O	13:7:540:VAL:HG23	2.04	0.57
13:7:580:PRO:HD2	13:7:678:LYS:O	2.05	0.57
13:7:633:VAL:CG1	13:7:638:MET:HB2	2.34	0.57
2:B:30:ARG:NH1	2:B:86:SER:OG	2.35	0.57
5:E:271:TRP:CZ2	5:E:275:LEU:HD21	2.40	0.57
5:E:38:ALA:HA	5:E:251:ILE:HD11	1.86	0.57
5:E:569:LEU:HD12	5:E:584:LEU:HD11	1.87	0.57
5:E:610:GLN:HA	5:E:613:THR:OG1	2.04	0.57
8:2:281:LEU:HD12	8:2:282:HIS:N	2.20	0.57
8:2:369:SER:HA	8:2:371:GLY:N	2.19	0.57
8:2:327:ARG:NH1	8:2:420:PRO:HD3	2.20	0.57
9:3:277:ILE:O	9:3:278:LEU:HD23	2.03	0.57
10:4:521:LEU:HD21	10:4:741:VAL:CG1	2.34	0.57
11:5:182:MET:CE	11:5:189:THR:HG22	2.34	0.57
12:6:173:GLN:N	12:6:173:GLN:OE1	2.33	0.57
12:6:755:ILE:O	12:6:759:ARG:HG2	2.04	0.57
13:7:689:LEU:CA	13:7:692:ILE:HG22	2.34	0.57
9:3:211:TYR:HB3	13:7:6:PRO:O	2.04	0.57
2:B:178:ILE:HA	2:B:181:LEU:HD21	1.87	0.57
4:D:174:LEU:HG	4:D:175:LEU:HD12	1.86	0.57
5:E:162:LEU:HD12	5:E:163:LEU:HD22	1.86	0.57
5:E:295:LEU:HB3	5:E:409:PHE:HE2	1.69	0.57
5:E:527:LEU:HG	5:E:568:VAL:CB	2.34	0.57
5:E:558:GLU:H	5:E:560:GLU:CB	2.16	0.57
8:2:519:LEU:HD13	8:2:556:VAL:HG13	1.86	0.57
8:2:837:ALA:O	8:2:841:VAL:HG23	2.04	0.57
9:3:245:TYR:HD1	9:3:250:PHE:HZ	1.52	0.57
9:3:291:ARG:O	9:3:329:LEU:HG	2.05	0.57
10:4:228:LYS:O	10:4:232:GLU:HG3	2.04	0.57
10:4:458:LYS:NZ	12:6:413:PRO:HD3	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:419:VAL:HG12	10:4:463:VAL:CG2	2.32	0.57
10:4:649:MET:HE2	10:4:701:ARG:HG2	1.86	0.57
10:4:720:LEU:O	10:4:724:LEU:HG	2.04	0.57
10:4:524:ARG:HG3	10:4:742:LEU:CD2	2.34	0.57
10:4:802:ILE:HD13	12:6:735:HIS:HB3	1.85	0.57
10:4:777:MET:CE	10:4:833:ILE:HD11	2.34	0.57
11:5:482:PHE:CZ	11:5:550:PHE:HZ	2.22	0.57
11:5:90:PHE:O	11:5:94:ILE:HD12	2.05	0.57
1:A:36:ILE:HA	1:A:39:ASN:OD1	2.04	0.57
2:B:104:TYR:CD2	2:B:113:SER:HB3	2.40	0.57
3:C:118:LYS:HZ2	3:C:122:ASN:HB2	1.67	0.57
3:C:95:LEU:O	3:C:168:LYS:HD3	2.05	0.57
5:E:86:PHE:CZ	5:E:625:PHE:HB2	2.39	0.57
8:2:216:LEU:HD12	8:2:217:GLU:N	2.20	0.57
8:2:388:VAL:N	8:2:408:VAL:O	2.38	0.57
9:3:394:GLU:C	9:3:395:ASN:HD22	2.04	0.57
9:3:477:LYS:HB3	11:5:491:VAL:HG11	1.87	0.57
10:4:461:VAL:CG1	10:4:463:VAL:H	2.13	0.57
10:4:654:ILE:HB	10:4:665:LEU:HD11	1.86	0.57
11:5:301:TYR:CD2	11:5:327:TYR:HB3	2.39	0.57
11:5:50:LEU:CD2	11:5:54:ILE:HD11	2.34	0.57
9:3:562:SER:HB2	11:5:623:SER:HB2	1.87	0.57
12:6:109:GLU:CD	12:6:112:ARG:HD3	2.25	0.57
12:6:690:ASN:HB3	12:6:693:LEU:CG	2.34	0.57
12:6:715:ILE:HD11	12:6:837:ARG:HH12	1.70	0.57
13:7:258:ILE:HG23	13:7:300:MET:HB2	1.87	0.57
13:7:529:MET:CE	13:7:533:ASP:HB3	2.35	0.57
13:7:26:VAL:O	13:7:63:TYR:HB2	2.04	0.57
13:7:72:ASN:HB3	13:7:74:GLU:OE1	2.05	0.57
1:A:17:LYS:O	1:A:21:ALA:N	2.38	0.57
1:A:193:GLN:O	1:A:197:GLU:HG3	2.05	0.57
1:A:29:LEU:HD21	1:A:96:ILE:CG2	2.26	0.57
2:B:182:ARG:N	2:B:183:PRO:HD2	2.20	0.57
3:C:72:VAL:HG12	3:C:74:LEU:H	1.69	0.57
3:C:96:ASP:O	3:C:100:ILE:HG23	2.05	0.57
4:D:258:VAL:HA	4:D:259:THR:CG2	2.35	0.57
4:D:98:ILE:HD12	4:D:99:GLU:N	2.20	0.57
5:E:257:SER:O	5:E:261:ALA:N	2.37	0.57
5:E:558:GLU:H	5:E:560:GLU:HB2	1.69	0.57
8:2:219:THR:HB	8:2:223:GLY:C	2.25	0.57
8:2:364:CYS:N	8:2:368:LYS:HA	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:520:PHE:CE1	8:2:823:MET:HG2	2.40	0.57
8:2:596:LEU:HB3	8:2:644:CYS:SG	2.45	0.57
9:3:272:ARG:HD2	11:5:171:VAL:HG13	1.86	0.57
10:4:419:VAL:HG12	10:4:463:VAL:CB	2.34	0.57
10:4:538:LYS:O	10:4:542:LEU:HG	2.05	0.57
10:4:727:LEU:HD13	13:7:444:VAL:HG12	1.87	0.57
10:4:748:THR:O	10:4:751:ILE:HB	2.04	0.57
11:5:36:LEU:HD23	11:5:47:ARG:HD2	1.87	0.57
11:5:51:ARG:HA	11:5:54:ILE:CG1	2.35	0.57
12:6:357:GLN:HE21	12:6:381:LEU:CD1	2.17	0.57
12:6:452:ILE:N	12:6:452:ILE:HD12	2.18	0.57
12:6:738:ARG:HD3	12:6:740:GLU:H	1.70	0.57
12:6:752:ARG:O	12:6:755:ILE:HB	2.05	0.57
13:7:461:ASP:CB	13:7:569:PRO:HD2	2.35	0.57
1:A:139:THR:HA	1:A:142:LYS:HG3	1.87	0.57
1:A:167:VAL:HG23	1:A:189:PHE:HE2	1.70	0.57
2:B:116:PRO:HD2	2:B:119:TRP:CD1	2.40	0.57
2:B:7:LEU:HD21	2:B:12:SER:HA	1.87	0.57
2:B:79:LEU:O	2:B:83:SER:N	2.37	0.57
1:A:130:TYR:CE1	4:D:189:ILE:HG23	2.39	0.57
5:E:478:TRP:O	5:E:482:ASP:N	2.35	0.57
5:E:527:LEU:HA	5:E:568:VAL:HB	1.87	0.57
5:E:68:ARG:O	5:E:72:SER:HB3	2.04	0.57
8:2:327:ARG:HH22	8:2:420:PRO:HD3	1.69	0.57
8:2:554:LYS:HA	8:2:557:GLU:CG	2.34	0.57
8:2:777:LYS:N	8:2:828:PHE:HA	2.02	0.57
14:3:1001:ATP:N9	11:5:650:ILE:HD11	2.20	0.57
10:4:315:ARG:HG2	10:4:410:GLN:CG	2.35	0.57
10:4:431:ASP:O	10:4:433:ILE:HG13	2.05	0.57
10:4:530:ILE:HB	10:4:537:LYS:NZ	2.20	0.57
10:4:578:LEU:CD2	10:4:672:LEU:HD22	2.25	0.57
11:5:435:ILE:HD11	11:5:475:GLY:HA3	1.86	0.57
11:5:502:ILE:HB	11:5:513:LEU:CG	2.35	0.57
12:6:726:GLU:O	12:6:730:HIS:N	2.33	0.57
13:7:14:TYR:OH	13:7:105:ALA:HB1	2.05	0.57
13:7:396:ASP:OD1	13:7:400:ARG:NH2	2.33	0.57
13:7:686:PRO:O	13:7:690:LEU:N	2.33	0.57
13:7:87:GLN:O	13:7:91:GLU:N	2.38	0.57
1:A:22:ARG:N	1:A:23:SER:HA	2.19	0.57
2:B:154:ILE:HD12	2:B:155:LYS:N	2.20	0.57
5:E:129:TRP:HE3	5:E:133:ASN:ND2	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:244:GLY:HA3	5:E:603:ASN:H	1.70	0.57
5:E:262:ILE:HB	5:E:264:GLU:OE1	2.05	0.57
5:E:327:PHE:CE2	5:E:328:LEU:HG	2.40	0.57
5:E:528:CYS:H	5:E:568:VAL:HB	1.69	0.57
5:E:540:ARG:HH22	5:E:574:GLU:H	1.52	0.57
8:2:527:VAL:O	8:2:530:LYS:N	2.37	0.56
8:2:793:LEU:HD11	8:2:863:ILE:HG21	1.87	0.56
9:3:416:SER:CB	11:5:499:GLN:HE21	2.18	0.56
12:6:356:TRP:CZ3	12:6:358:LYS:HB2	2.32	0.56
13:7:208:SER:CB	13:7:209:GLN:HA	2.34	0.56
13:7:409:ASP:CG	13:7:412:ASN:HB3	2.25	0.56
13:7:470:LEU:HD21	13:7:564:LEU:CD2	2.35	0.56
1:A:33:HIS:HB3	1:A:35:ASP:OD1	2.05	0.56
1:A:5:LEU:HA	1:A:8:LYS:CG	2.33	0.56
3:C:12:ASP:HB3	3:C:49:TRP:N	2.20	0.56
3:C:12:ASP:HB3	3:C:49:TRP:CD1	2.39	0.56
1:A:84:ARG:HH22	4:D:217:ASN:HB3	1.68	0.56
4:D:62:ASP:HA	4:D:65:LYS:HB3	1.87	0.56
5:E:294:LEU:O	5:E:298:GLU:HG2	2.04	0.56
5:E:504:ARG:O	5:E:508:ASN:HB2	2.04	0.56
5:E:539:TYR:HB3	5:E:545:LEU:CD1	2.34	0.56
5:E:34:LEU:HD11	5:E:543:LEU:HD21	1.86	0.56
8:2:324:VAL:HG11	8:2:419:LYS:O	2.05	0.56
9:3:164:HIS:C	9:3:180:VAL:HG13	2.25	0.56
9:3:371:ILE:HD11	11:5:404:MET:CE	2.34	0.56
9:3:406:LEU:HD12	9:3:514:ALA:CB	2.33	0.56
10:4:776:GLY:HA2	10:4:779:LYS:HB3	1.86	0.56
10:4:794:THR:HG23	10:4:797:GLN:N	2.19	0.56
12:6:656:MET:HG3	12:6:709:PHE:CE1	2.40	0.56
13:7:203:TYR:CZ	13:7:339:LEU:HB2	2.39	0.56
13:7:490:GLY:HA2	13:7:493:LEU:CD2	2.35	0.56
13:7:514:VAL:HG22	13:7:546:ILE:CD1	2.36	0.56
13:7:88:TYR:CE2	13:7:92:LYS:HD3	2.40	0.56
1:A:199:LEU:HB2	1:A:205:LEU:CD1	2.34	0.56
2:B:52:LEU:HD22	4:D:125:PRO:O	2.05	0.56
3:C:47:PRO:CD	3:C:50:LEU:HD21	2.34	0.56
5:E:119:ASP:C	5:E:120:ILE:HD12	2.26	0.56
5:E:489:VAL:O	5:E:492:LEU:HB3	2.05	0.56
8:2:361:ILE:CB	8:2:373:PHE:HB2	2.34	0.56
9:3:353:LEU:O	9:3:359:ILE:HD13	2.05	0.56
9:3:419:LEU:O	9:3:423:LEU:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:543:PHE:CD2	9:3:546:LEU:HD21	2.40	0.56
9:3:553:ILE:HD11	11:5:634:LEU:HD22	1.86	0.56
10:4:348:LYS:HD3	10:4:353:ASP:OD2	2.05	0.56
10:4:628:VAL:HA	10:4:670:SER:HB2	1.88	0.56
10:4:632:ASP:HA	10:4:674:SER:OG	2.05	0.56
11:5:298:TYR:HA	11:5:328:ILE:HG12	1.86	0.56
13:7:318:LEU:HD22	13:7:320:GLN:CG	2.28	0.56
3:C:69:VAL:HG13	3:C:70:PRO:HD2	1.87	0.56
4:D:253:LYS:HB3	4:D:254:PRO:HD3	1.87	0.56
4:D:60:PHE:CE1	4:D:136:LEU:HG	2.40	0.56
5:E:310:VAL:CG1	5:E:311:LYS:HD2	2.34	0.56
8:2:814:LEU:HD12	8:2:814:LEU:N	2.20	0.56
9:3:163:ALA:HB3	9:3:164:HIS:ND1	2.21	0.56
9:3:329:LEU:HA	9:3:339:ARG:NH2	2.20	0.56
10:4:243:LEU:HB3	10:4:305:PRO:HA	1.86	0.56
10:4:770:LEU:CD1	10:4:801:MET:HB3	2.33	0.56
11:5:437:VAL:HG12	11:5:439:THR:HG23	1.87	0.56
12:6:294:VAL:HB	12:6:392:GLY:N	2.21	0.56
12:6:606:ALA:HB1	12:6:609:THR:O	2.05	0.56
12:6:597:TYR:OH	12:6:639:ASP:OD2	2.22	0.56
10:4:319:PRO:CB	13:7:253:PRO:HB3	2.22	0.56
13:7:260:TYR:CD2	13:7:281:LEU:HD11	2.40	0.56
2:B:52:LEU:HD12	2:B:53:ILE:H	1.70	0.56
1:A:94:THR:HG21	4:D:190:TRP:HZ3	1.70	0.56
4:D:261:PRO:HG2	4:D:264:LYS:HB3	1.85	0.56
5:E:5:ILE:HD13	5:E:134:ILE:CG2	2.35	0.56
5:E:29:ILE:O	5:E:29:ILE:HD12	2.05	0.56
8:2:341:CYS:HG	8:2:348:LEU:HD22	1.69	0.56
8:2:624:MET:O	8:2:627:GLN:NE2	2.38	0.56
8:2:603:VAL:CG2	8:2:645:SER:HB2	2.34	0.56
8:2:660:THR:HB	8:2:851:VAL:HG23	1.86	0.56
10:4:193:ASN:OD1	10:4:253:GLN:HB2	2.05	0.56
10:4:418:CYS:SG	10:4:419:VAL:N	2.79	0.56
11:5:382:GLU:HA	11:5:385:LYS:CB	2.26	0.56
11:5:441:GLY:CA	11:5:442:LYS:HB2	2.35	0.56
11:5:536:PRO:CD	11:5:643:ARG:HD3	2.36	0.56
12:6:130:GLY:HA2	12:6:131:GLU:HB3	1.87	0.56
12:6:298:SER:O	12:6:357:GLN:HB2	2.06	0.56
12:6:364:ASN:HB2	12:6:394:ARG:HD3	1.88	0.56
12:6:560:VAL:CB	12:6:561:GLU:HA	2.23	0.56
12:6:544:LYS:HE2	12:6:584:PHE:HE1	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:832:ARG:O	12:6:836:ILE:HG13	2.05	0.56
13:7:269:VAL:CG1	13:7:281:LEU:HD21	2.34	0.56
1:A:108:ASP:HB3	1:A:109:LEU:CA	2.35	0.56
8:2:459:ARG:HG3	8:2:460:GLU:C	2.26	0.56
10:4:233:MET:HE3	10:4:239:SER:HA	1.88	0.56
10:4:304:ARG:HH22	10:4:422:GLU:CB	2.17	0.56
10:4:366:GLN:N	10:4:366:GLN:OE1	2.37	0.56
10:4:530:ILE:HB	10:4:537:LYS:HZ1	1.69	0.56
10:4:601:LEU:HG	10:4:621:LEU:HG	1.87	0.56
11:5:488:GLU:HG2	11:5:489:ASP:N	2.20	0.56
11:5:490:ARG:NH2	11:5:540:ILE:HG23	2.20	0.56
11:5:91:GLU:HB3	11:5:134:THR:HG22	1.87	0.56
12:6:193:ALA:HB1	12:6:194:PRO:HD2	1.87	0.56
12:6:149:ASN:HB3	12:6:262:VAL:O	2.06	0.56
12:6:781:ARG:HD2	12:6:795:ILE:HB	1.88	0.56
10:4:181:TRP:CH2	13:7:149:ARG:HB2	2.40	0.56
13:7:211:CYS:O	13:7:214:ARG:HB2	2.06	0.56
1:A:168:LEU:HD21	1:A:206:GLN:CB	2.30	0.56
1:A:202:GLN:HG2	1:A:204:TYR:HE2	1.70	0.56
2:B:94:THR:HG22	2:B:96:LYS:HG2	1.87	0.56
4:D:211:ASP:OD2	4:D:213:GLU:HB3	2.06	0.56
4:D:59:ASP:HA	4:D:83:LEU:HD11	1.88	0.56
5:E:577:ASP:O	5:E:633:ARG:HA	2.06	0.56
8:2:591:LEU:HD22	11:5:270:MET:CE	2.35	0.56
8:2:562:ARG:CD	8:2:599:ALA:HB1	2.36	0.56
9:3:118:PRO:HB2	9:3:122:ILE:CD1	2.35	0.56
9:3:155:LEU:HB3	9:3:157:PHE:CE1	2.41	0.56
10:4:188:GLN:HA	10:4:191:THR:HG22	1.88	0.56
10:4:209:LEU:O	10:4:209:LEU:HD23	2.05	0.56
11:5:26:GLU:O	11:5:29:LYS:HG2	2.05	0.56
11:5:487:ASP:CA	11:5:490:ARG:HB3	2.33	0.56
12:6:448:LEU:HD12	12:6:448:LEU:O	2.05	0.56
12:6:580:SER:HB2	12:6:583:GLN:CG	2.35	0.56
13:7:298:LEU:O	13:7:298:LEU:HD12	2.05	0.56
13:7:383:GLN:HB2	13:7:386:LYS:CE	2.36	0.56
1:A:151:LEU:HA	4:D:141:ARG:HD3	1.87	0.56
2:B:193:ARG:HD3	4:D:227:PHE:CZ	2.40	0.56
2:B:27:ILE:O	2:B:68:SER:HA	2.06	0.56
5:E:15:ILE:CD1	5:E:80:SER:HB2	2.35	0.56
5:E:343:TYR:OH	5:E:347:LYS:HE3	2.05	0.56
8:2:327:ARG:HH12	8:2:420:PRO:N	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:193:ARG:O	9:3:253:HIS:N	2.23	0.56
10:4:284:ILE:HD13	10:4:297:GLU:OE2	2.06	0.56
10:4:419:VAL:HG23	10:4:424:VAL:CG2	2.36	0.56
10:4:439:PHE:CZ	10:4:459:THR:HB	2.41	0.56
10:4:822:VAL:HA	10:4:825:ALA:CB	2.36	0.56
11:5:389:VAL:CA	11:5:392:LEU:HG	2.35	0.56
12:6:356:TRP:CE3	12:6:380:ILE:HG23	2.40	0.56
12:6:276:ILE:HD13	12:6:375:ARG:HG3	1.88	0.56
12:6:660:THR:CG2	12:6:673:ASN:HA	2.35	0.56
13:7:412:ASN:O	13:7:416:LYS:N	2.33	0.56
13:7:493:LEU:HD22	13:7:513:LEU:CD1	2.36	0.56
4:D:79:TYR:HE2	4:D:81:HIS:HB3	1.71	0.56
5:E:256:TYR:HA	5:E:259:LEU:HB3	1.86	0.56
5:E:287:VAL:HG13	5:E:290:ARG:NH1	2.15	0.56
5:E:356:LYS:HG2	5:E:360:HIS:HE1	1.70	0.56
5:E:59:VAL:O	5:E:61:ILE:HD12	2.06	0.56
5:E:68:ARG:HB2	5:E:95:PHE:CZ	2.41	0.56
8:2:212:LYS:NZ	8:2:271:PHE:O	2.31	0.56
8:2:307:ARG:CZ	8:2:398:PRO:HG3	2.36	0.56
9:3:231:TYR:CG	9:3:232:PRO:HD2	2.40	0.56
9:3:240:LYS:C	9:3:241:LEU:HD23	2.25	0.56
10:4:344:VAL:CA	10:4:359:GLU:HA	2.35	0.56
10:4:527:ALA:HB3	10:4:537:LYS:NZ	2.21	0.56
10:4:828:LEU:O	10:4:831:SER:OG	2.23	0.56
12:6:417:PRO:HG2	12:6:448:LEU:HD11	1.86	0.56
12:6:529:LEU:O	12:6:533:ILE:HG13	2.06	0.56
12:6:723:ILE:HG22	12:6:727:LEU:HG	1.88	0.56
1:A:123:LEU:CD2	1:A:127:GLU:HB2	2.27	0.56
3:C:16:PHE:O	3:C:46:LEU:N	2.37	0.56
4:D:143:TYR:O	4:D:147:ARG:HG3	2.06	0.56
5:E:29:ILE:CD1	5:E:58:ILE:HA	2.36	0.56
8:2:319:ARG:HB2	8:2:427:THR:HG22	1.87	0.56
9:3:435:ARG:NH1	9:3:477:LYS:O	2.39	0.56
10:4:276:ILE:HD11	10:4:303:VAL:CG2	2.35	0.56
10:4:331:LEU:HA	10:4:431:ASP:O	2.05	0.56
10:4:527:ALA:HB1	10:4:530:ILE:CD1	2.23	0.56
10:4:621:LEU:CA	10:4:624:SER:HB2	2.36	0.56
11:5:588:GLU:HB3	11:5:593:GLU:HB3	1.88	0.56
11:5:53:ASN:HB3	11:5:58:ASN:HB3	1.88	0.56
12:6:702:THR:CG2	12:6:704:PRO:HG2	2.36	0.56
13:7:196:LEU:CD2	13:7:197:THR:HG23	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:22:THR:HG22	13:7:25:LEU:HD12	1.87	0.56
13:7:228:ARG:NH2	13:7:327:ILE:H	2.04	0.56
13:7:650:PRO:HB3	13:7:706:ASP:HA	1.86	0.56
13:7:88:TYR:HA	13:7:91:GLU:HB2	1.88	0.56
1:A:109:LEU:O	1:A:109:LEU:HD23	2.06	0.56
1:A:15:ARG:HH22	11:5:670:PRO:CD	2.19	0.56
1:A:162:PHE:CE1	1:A:192:ARG:HB3	2.41	0.56
1:A:78:CYS:CA	1:A:81:ARG:HB3	2.36	0.56
3:C:18:CYS:SG	3:C:74:LEU:HA	2.46	0.56
5:E:150:ASP:CB	5:E:152:LEU:HB2	2.36	0.56
5:E:256:TYR:CD1	5:E:259:LEU:HD22	2.41	0.56
5:E:277:THR:HG21	5:E:295:LEU:HD11	1.88	0.56
5:E:490:GLU:HA	5:E:493:ASN:ND2	2.21	0.56
5:E:525:TYR:HA	5:E:565:LEU:HD13	1.87	0.56
8:2:444:PHE:HB3	12:6:303:GLU:OE2	2.05	0.56
8:2:541:LEU:HB3	8:2:649:ALA:CB	2.35	0.56
10:4:441:SER:HA	10:4:459:THR:HA	1.87	0.56
10:4:504:GLN:HG2	10:4:505:ASP:N	2.21	0.56
10:4:607:ARG:CA	10:4:614:LEU:HA	2.16	0.56
11:5:375:ALA:HB3	11:5:385:LYS:NZ	2.21	0.56
12:6:363:GLU:HB3	12:6:374:PRO:HB2	1.88	0.56
12:6:516:LEU:O	12:6:520:VAL:HG13	2.06	0.56
12:6:588:VAL:CA	12:6:591:PHE:HB3	2.28	0.56
12:6:818:GLU:C	12:6:819:ILE:HD12	2.26	0.56
13:7:520:ILE:HA	13:7:562:SER:CB	2.29	0.56
13:7:88:TYR:O	13:7:92:LYS:HG2	2.06	0.56
1:A:15:ARG:O	1:A:19:LEU:HG	2.05	0.56
3:C:86:ASN:HA	3:C:89:LYS:HD3	1.87	0.56
4:D:170:SER:HB3	4:D:175:LEU:CD1	2.30	0.56
4:D:291:VAL:HG22	4:D:292:ALA:O	2.05	0.56
5:E:315:THR:H	5:E:316:LEU:HB3	1.71	0.56
5:E:527:LEU:HG	5:E:568:VAL:HB	1.86	0.56
5:E:98:ILE:CA	5:E:99:ASP:HB3	2.35	0.56
8:2:212:LYS:HG3	8:2:274:VAL:HG11	1.88	0.55
8:2:338:LYS:HE3	8:2:380:THR:CG2	2.36	0.55
9:3:179:LEU:HA	9:3:296:GLY:C	2.26	0.55
9:3:250:PHE:CD1	13:7:235:LEU:HD22	2.41	0.55
9:3:299:LYS:CG	9:3:322:LEU:HG	2.36	0.55
9:3:658:LYS:HA	9:3:661:GLN:CD	2.26	0.55
10:4:272:MET:O	10:4:276:ILE:HG13	2.06	0.55
10:4:243:LEU:HD22	10:4:305:PRO:CB	2.35	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:397:ILE:HB	10:4:417:LEU:CG	2.37	0.55
10:4:644:VAL:O	10:4:648:VAL:HG23	2.05	0.55
11:5:260:GLU:CD	11:5:272:ARG:HG2	2.26	0.55
11:5:300:ILE:CD1	11:5:326:PRO:HA	2.36	0.55
11:5:301:TYR:HD2	11:5:327:TYR:HD2	1.53	0.55
11:5:62:THR:HA	11:5:138:ILE:O	2.06	0.55
12:6:288:LEU:HG	12:6:290:ILE:CD1	2.36	0.55
10:4:364:VAL:HB	12:6:420:THR:O	2.06	0.55
12:6:751:LEU:O	12:6:755:ILE:N	2.38	0.55
13:7:254:ALA:O	13:7:308:SER:N	2.37	0.55
13:7:363:PHE:HA	13:7:366:LEU:HD13	1.88	0.55
13:7:374:THR:O	13:7:375:TYR:HB3	2.06	0.55
1:A:101:ALA:O	1:A:105:ASN:ND2	2.39	0.55
1:A:71:GLN:CA	1:A:74:VAL:HB	2.30	0.55
3:C:112:ILE:HD12	3:C:120:LEU:CD1	2.36	0.55
3:C:53:ILE:HA	3:C:56:ILE:HG13	1.86	0.55
5:E:13:ASN:HA	5:E:16:LEU:CD1	2.37	0.55
5:E:293:PRO:HA	5:E:296:GLN:CB	2.21	0.55
5:E:36:ILE:HA	5:E:39:LEU:CG	2.34	0.55
5:E:60:PRO:HG3	5:E:478:TRP:HE1	1.71	0.55
8:2:264:PRO:HA	8:2:267:MET:HB3	1.88	0.55
8:2:490:ASP:HB3	8:2:493:ILE:HG23	1.87	0.55
8:2:785:LYS:NZ	8:2:789:VAL:HG21	2.22	0.55
9:3:470:VAL:HB	9:3:512:VAL:HG13	1.88	0.55
10:4:567:CYS:HB3	10:4:675:ALA:HB3	1.87	0.55
10:4:818:GLU:HG3	10:4:820:GLU:N	2.22	0.55
11:5:602:TYR:O	11:5:605:TYR:HB3	2.06	0.55
12:6:530:VAL:HA	12:6:533:ILE:HG13	1.89	0.55
12:6:640:GLU:OE2	12:6:683:ASN:ND2	2.31	0.55
13:7:311:GLN:HG2	13:7:312:GLU:N	2.22	0.55
9:3:195:LYS:HZ3	13:7:371:LEU:HB2	1.71	0.55
13:7:428:VAL:HG13	13:7:598:PHE:CD2	2.37	0.55
13:7:458:LEU:HB2	13:7:566:ALA:HB2	1.88	0.55
13:7:461:ASP:CG	13:7:569:PRO:HD2	2.27	0.55
13:7:490:GLY:CA	13:7:493:LEU:HG	2.31	0.55
1:A:173:GLU:N	1:A:173:GLU:OE1	2.39	0.55
3:C:109:ILE:O	3:C:112:ILE:HG22	2.07	0.55
3:C:27:LEU:HB2	3:C:36:ARG:O	2.05	0.55
4:D:258:VAL:CA	4:D:259:THR:HG23	2.36	0.55
5:E:70:HIS:O	5:E:73:GLN:N	2.35	0.55
8:2:271:PHE:CE2	8:2:295:VAL:HG21	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:112:SER:O	9:3:116:VAL:HG23	2.06	0.55
9:3:259:GLN:HB2	9:3:273:SER:HB3	1.88	0.55
9:3:360:PHE:HA	9:3:363:LEU:HD12	1.89	0.55
10:4:344:VAL:C	10:4:360:ILE:HD12	2.27	0.55
10:4:348:LYS:HG2	10:4:354:HIS:O	2.06	0.55
10:4:351:VAL:HB	10:4:373:ARG:O	2.06	0.55
12:6:308:SER:HA	12:6:319:ASP:CB	2.36	0.55
12:6:400:VAL:HG21	12:6:455:LEU:HG	1.88	0.55
12:6:401:GLU:O	12:6:402:ILE:HG12	2.05	0.55
12:6:566:ARG:HB3	12:6:567:GLY:O	2.06	0.55
12:6:780:LEU:CD2	12:6:781:ARG:HG3	2.36	0.55
13:7:455:ASN:HA	13:7:563:ILE:O	2.07	0.55
10:4:718:ARG:HG3	13:7:661:VAL:CG1	2.35	0.55
2:B:99:ASP:O	2:B:103:GLN:N	2.31	0.55
3:C:88:ILE:HB	3:C:127:LEU:HD12	1.87	0.55
4:D:253:LYS:HB3	4:D:254:PRO:CD	2.37	0.55
5:E:425:VAL:O	5:E:429:THR:HG23	2.06	0.55
8:2:204:SER:HA	8:2:207:ILE:HG13	1.88	0.55
8:2:274:VAL:O	8:2:278:ALA:N	2.25	0.55
8:2:497:ILE:HD13	8:2:823:MET:HE3	1.89	0.55
9:3:97:ILE:HA	9:3:156:SER:OG	2.07	0.55
9:3:196:LEU:HD23	9:3:197:ILE:N	2.21	0.55
9:3:234:GLU:OE2	9:3:240:LYS:HA	2.07	0.55
9:3:254:GLN:HB2	9:3:283:VAL:HG22	1.89	0.55
9:3:300:SER:OG	11:5:245:HIS:HB3	2.06	0.55
9:3:45:ILE:HG22	9:3:49:ASN:ND2	2.21	0.55
9:3:673:GLN:O	9:3:676:ILE:HB	2.07	0.55
10:4:314:MET:CG	10:4:413:HIS:HD2	2.20	0.55
10:4:523:ALA:HA	10:4:526:ILE:CD1	2.36	0.55
11:5:260:GLU:OE2	11:5:272:ARG:N	2.38	0.55
11:5:502:ILE:O	11:5:513:LEU:N	2.40	0.55
13:7:110:ALA:HA	13:7:113:PHE:CD2	2.38	0.55
13:7:28:PHE:HE2	13:7:31:ASP:HB2	1.72	0.55
13:7:543:GLN:NE2	13:7:559:ALA:O	2.39	0.55
13:7:458:LEU:CD2	13:7:598:PHE:HB2	2.36	0.55
13:7:670:ASP:OD1	13:7:671:SER:N	2.39	0.55
1:A:149:ILE:HG22	1:A:151:LEU:HD12	1.89	0.55
4:D:286:LEU:HG	4:D:293:LEU:HD11	1.88	0.55
5:E:227:LYS:O	5:E:231:HIS:ND1	2.32	0.55
5:E:472:ARG:HA	5:E:475:SER:HB2	1.88	0.55
8:2:268:LEU:O	8:2:272:ASP:N	2.32	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:470:VAL:CB	9:3:512:VAL:HG22	2.35	0.55
10:4:289:LEU:HD22	10:4:293:LEU:CD2	2.31	0.55
10:4:722:LYS:O	10:4:725:THR:HB	2.06	0.55
10:4:776:GLY:HA2	10:4:779:LYS:CB	2.37	0.55
11:5:436:ALA:CB	11:5:476:VAL:HB	2.35	0.55
12:6:140:ILE:O	12:6:144:LYS:N	2.38	0.55
10:4:616:LEU:HB2	12:6:362:GLN:OE1	2.06	0.55
12:6:544:LYS:HE2	12:6:584:PHE:CE1	2.41	0.55
12:6:636:CYS:HB3	12:6:678:ILE:HG12	1.89	0.55
12:6:713:PHE:C	12:6:837:ARG:HH11	2.09	0.55
13:7:228:ARG:HD3	13:7:329:ARG:HD2	1.88	0.55
2:B:127:PHE:O	2:B:131:LYS:HD3	2.07	0.55
5:E:315:THR:HA	5:E:316:LEU:C	2.27	0.55
8:2:346:SER:OG	8:2:347:ILE:HA	2.07	0.55
8:2:354:ASP:CB	8:2:357:GLU:H	2.19	0.55
8:2:410:LEU:HB3	8:2:415:VAL:HA	1.87	0.55
8:2:541:LEU:CA	8:2:681:CYS:HB2	2.36	0.55
9:3:24:ARG:HD3	9:3:121:PHE:HD1	1.70	0.55
9:3:480:ASP:HA	9:3:483:ARG:HG3	1.88	0.55
10:4:236:LEU:CB	10:4:238:THR:HG23	2.34	0.55
10:4:517:ASP:CG	10:4:521:LEU:HB2	2.27	0.55
10:4:602:THR:N	10:4:619:GLY:HA3	2.21	0.55
10:4:607:ARG:NH2	10:4:612:LYS:O	2.40	0.55
10:4:633:GLU:HB3	10:4:636:LYS:CB	2.36	0.55
11:5:409:ASP:HB3	11:5:518:SER:CB	2.37	0.55
11:5:605:TYR:CE1	11:5:609:LYS:HE2	2.42	0.55
11:5:658:ARG:HA	11:5:661:GLU:OE1	2.06	0.55
12:6:174:TYR:HE1	12:6:267:PHE:HE2	1.55	0.55
12:6:293:THR:HG23	12:6:392:GLY:C	2.26	0.55
12:6:702:THR:HG22	12:6:705:ILE:HG12	1.89	0.55
12:6:811:ALA:CB	12:6:819:ILE:HG13	2.31	0.55
13:7:318:LEU:HD23	13:7:318:LEU:O	2.06	0.55
13:7:333:ILE:HG12	13:7:376:LEU:HB3	1.89	0.55
4:D:258:VAL:CG1	4:D:260:ILE:HG13	2.35	0.55
5:E:43:LYS:O	5:E:47:LEU:N	2.32	0.55
5:E:580:LEU:CD1	5:E:629:ILE:HD11	2.37	0.55
8:2:302:THR:OG1	8:2:303:ILE:N	2.40	0.55
8:2:661:LEU:HB3	8:2:662:PRO:HD2	1.89	0.55
8:2:790:TYR:CZ	8:2:794:ARG:HB2	2.42	0.55
9:3:158:LYS:HB2	9:3:327:TYR:OH	2.07	0.55
9:3:445:ALA:HB3	9:3:499:LYS:HD2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:265:PRO:O	10:4:269:ILE:HG13	2.06	0.55
10:4:421:ASP:O	10:4:424:VAL:HB	2.05	0.55
10:4:521:LEU:O	10:4:524:ARG:HG2	2.06	0.55
10:4:621:LEU:CB	10:4:654:ILE:HD11	2.37	0.55
11:5:500:GLN:HE21	11:5:516:ARG:HA	1.70	0.55
11:5:600:LYS:O	11:5:604:THR:HG23	2.06	0.55
12:6:364:ASN:OD1	12:6:365:ALA:N	2.40	0.55
12:6:547:ILE:CG2	12:6:588:VAL:HG21	2.36	0.55
12:6:804:ILE:O	12:6:808:GLU:HG3	2.06	0.55
13:7:370:LEU:HD13	13:7:370:LEU:O	2.06	0.55
13:7:80:ILE:O	13:7:205:LYS:N	2.27	0.55
1:A:110:MET:HE3	1:A:112:SER:CA	2.36	0.55
1:A:139:THR:HA	1:A:142:LYS:HD2	1.88	0.55
1:A:32:TYR:CD2	1:A:124:SER:HB3	2.42	0.55
2:B:104:TYR:HD2	2:B:113:SER:HB3	1.71	0.55
3:C:96:ASP:OD2	3:C:99:SER:HB3	2.05	0.55
5:E:492:LEU:O	5:E:496:ILE:HG13	2.07	0.55
8:2:218:TYR:O	8:2:225:SER:OG	2.18	0.55
8:2:301:PRO:HA	8:2:302:THR:C	2.27	0.55
8:2:667:VAL:HG22	8:2:669:LEU:N	2.18	0.55
8:2:686:LEU:HD23	8:2:687:VAL:N	2.22	0.55
8:2:856:GLN:OE1	8:2:859:ARG:HD3	2.07	0.55
9:3:200:VAL:O	9:3:244:GLU:HB2	2.06	0.55
9:3:95:ARG:CZ	9:3:282:LEU:HD21	2.36	0.55
9:3:292:VAL:CG1	9:3:326:VAL:HG12	2.34	0.55
10:4:179:ILE:HA	10:4:186:SER:HA	1.89	0.55
10:4:445:ARG:HD2	10:4:450:GLN:O	2.05	0.55
10:4:578:LEU:HD22	10:4:630:CYS:SG	2.47	0.55
10:4:762:ILE:CA	10:4:817:VAL:HG12	2.36	0.55
11:5:197:PHE:HZ	11:5:251:ILE:HD11	1.71	0.55
11:5:368:GLU:O	11:5:371:THR:OG1	2.20	0.55
12:6:134:LYS:HG2	12:6:137:ARG:HD3	1.88	0.55
12:6:186:ARG:HG2	12:6:263:PHE:CD2	2.42	0.55
12:6:194:PRO:CG	12:6:261:ARG:HH21	2.20	0.55
12:6:292:GLY:C	12:6:394:ARG:HG2	2.26	0.55
12:6:572:CYS:O	12:6:712:PHE:HB3	2.07	0.55
10:4:319:PRO:HG2	13:7:309:ALA:HB2	1.87	0.55
13:7:362:GLY:HA3	13:7:364:LYS:N	2.21	0.55
13:7:516:ALA:C	13:7:561:THR:HG22	2.26	0.55
2:B:167:HIS:C	2:B:168:LEU:HD12	2.27	0.55
4:D:178:ASP:HA	4:D:181:LYS:HE2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:55:THR:HG22	4:D:94:GLN:NE2	2.21	0.55
5:E:349:SER:HA	5:E:351:TRP:CH2	2.41	0.55
5:E:389:GLY:HA2	5:E:392:PHE:CD2	2.41	0.55
5:E:493:ASN:HA	5:E:496:ILE:CD1	2.37	0.55
5:E:519:ILE:HD12	5:E:519:ILE:H	1.71	0.55
8:2:794:ARG:CG	8:2:798:ILE:HD11	2.29	0.55
9:3:119:ALA:HA	9:3:221:LEU:HD22	1.88	0.55
9:3:378:LYS:HA	9:3:381:ILE:CD1	2.37	0.55
10:4:435:VAL:HG22	10:4:466:VAL:CA	2.29	0.55
10:4:765:ALA:CB	10:4:819:LEU:HD12	2.29	0.55
11:5:209:ARG:HA	11:5:239:ASP:CA	2.34	0.55
11:5:379:PHE:HB3	11:5:568:ILE:HD13	1.89	0.55
11:5:414:LEU:HD12	11:5:522:ALA:HB2	1.89	0.55
12:6:164:GLY:HA2	12:6:167:ALA:HB3	1.89	0.55
12:6:559:THR:HG23	12:6:565:LEU:HD21	1.89	0.55
8:2:574:VAL:CG1	12:6:664:ALA:HB3	2.34	0.55
13:7:339:LEU:O	13:7:339:LEU:HD23	2.07	0.55
13:7:352:THR:OG1	13:7:380:PHE:HB3	2.06	0.55
13:7:362:GLY:CA	13:7:363:PHE:CB	2.81	0.55
1:A:105:ASN:O	1:A:152:SER:OG	2.25	0.55
1:A:90:GLN:O	1:A:94:THR:N	2.33	0.55
2:B:184:PHE:CE1	3:C:136:ASN:HB2	2.42	0.55
2:B:19:ILE:O	2:B:22:ASN:ND2	2.30	0.55
4:D:257:THR:O	4:D:259:THR:HG23	2.07	0.55
5:E:505:ALA:HA	5:E:508:ASN:HB3	1.88	0.55
5:E:75:ASP:HB3	5:E:118:ARG:NH1	2.20	0.55
8:2:540:LEU:HA	8:2:648:ALA:HB3	1.89	0.55
8:2:795:ARG:HB3	11:5:562:GLU:HG3	1.88	0.55
8:2:815:ARG:O	8:2:818:GLU:HG2	2.07	0.55
8:2:776:PRO:HA	8:2:827:GLU:O	2.07	0.55
9:3:186:VAL:HG23	9:3:290:ASP:O	2.06	0.55
9:3:256:ILE:HG12	9:3:278:LEU:HD11	1.88	0.55
9:3:275:ASP:CG	9:3:320:LEU:HB3	2.27	0.55
11:5:149:ARG:O	11:5:272:ARG:NH2	2.40	0.55
11:5:526:ILE:HD12	11:5:526:ILE:O	2.07	0.55
11:5:673:GLN:HE22	11:5:675:ARG:HH21	1.55	0.55
11:5:87:ILE:N	11:5:88:PRO:HD2	2.22	0.55
12:6:167:ALA:HA	12:6:170:ILE:CD1	2.36	0.55
12:6:270:LEU:HD12	12:6:289:SER:HB2	1.87	0.55
12:6:689:TYR:CD2	12:6:716:LEU:HD12	2.41	0.55
12:6:805:ARG:HA	12:6:808:GLU:CD	2.28	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:127:LEU:HD23	3:C:127:LEU:C	2.28	0.55
3:C:50:LEU:CD1	3:C:54:LEU:HD11	2.37	0.55
2:B:197:THR:HG22	4:D:263:LEU:CD2	2.37	0.55
5:E:271:TRP:HA	5:E:274:ILE:HD12	1.88	0.55
5:E:348:LEU:HB2	5:E:350:LEU:CD2	2.37	0.55
5:E:323:ASP:O	5:E:405:ILE:HA	2.07	0.55
5:E:41:ALA:HA	5:E:44:MET:SD	2.47	0.55
5:E:558:GLU:HB2	5:E:559:SER:C	2.27	0.55
8:2:227:TYR:HA	8:2:230:ARG:HB2	1.89	0.54
8:2:663:LEU:HD23	8:2:663:LEU:O	2.07	0.54
9:3:155:LEU:O	9:3:324:ASN:ND2	2.41	0.54
9:3:294:VAL:CG2	9:3:326:VAL:HG13	2.36	0.54
9:3:437:SER:O	11:5:506:LYS:N	2.39	0.54
10:4:635:ASP:HA	10:4:694:LEU:HD11	1.90	0.54
10:4:501:ILE:HD13	10:4:749:MET:CE	2.37	0.54
11:5:166:ILE:CD1	11:5:256:LEU:HD23	2.36	0.54
11:5:338:GLU:N	11:5:339:THR:CA	2.70	0.54
11:5:364:PRO:HG2	11:5:365:LYS:HD3	1.89	0.54
12:6:354:LEU:HD13	12:6:355:ASP:OD2	2.07	0.54
12:6:606:ALA:HA	12:6:607:GLY:C	2.27	0.54
1:A:2:TYR:HE2	1:A:78:CYS:HB2	1.71	0.54
1:A:38:ARG:HA	1:A:41:LEU:HB2	1.89	0.54
2:B:160:LEU:HD13	3:C:136:ASN:ND2	2.22	0.54
2:B:17:GLN:HB2	2:B:121:VAL:HG11	1.89	0.54
4:D:258:VAL:HG22	4:D:266:GLU:CG	2.37	0.54
5:E:494:ARG:O	5:E:498:LEU:HG	2.07	0.54
8:2:327:ARG:NH2	8:2:420:PRO:HD3	2.22	0.54
8:2:317:LEU:HG	8:2:428:GLY:O	2.08	0.54
8:2:524:PRO:CB	8:2:525:LYS:HA	2.35	0.54
9:3:119:ALA:CB	9:3:221:LEU:HD22	2.38	0.54
9:3:554:ASN:HB2	9:3:557:ARG:HG2	1.89	0.54
10:4:243:LEU:HD23	10:4:244:ASP:N	2.22	0.54
10:4:562:ILE:HB	10:4:703:ASP:OD2	2.07	0.54
10:4:678:ILE:CD1	10:4:693:ASP:HB2	2.37	0.54
11:5:365:LYS:HD2	11:5:365:LYS:N	2.22	0.54
11:5:36:LEU:CD2	11:5:47:ARG:HD2	2.37	0.54
11:5:625:ASN:HD21	11:5:681:ILE:CG2	2.20	0.54
10:4:650:GLU:HB3	12:6:586:LYS:HE2	1.88	0.54
12:6:566:ARG:NH1	12:6:656:MET:O	2.39	0.54
12:6:759:ARG:HA	12:6:812:ARG:HH21	1.72	0.54
13:7:415:ALA:CB	13:7:430:LYS:HD2	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:135:CYS:O	1:A:138:ILE:HG22	2.07	0.54
1:A:20:TYR:C	1:A:23:SER:HB3	2.26	0.54
1:A:31:MET:HG2	1:A:32:TYR:N	2.22	0.54
1:A:41:LEU:CA	1:A:44:VAL:HG12	2.37	0.54
1:A:77:LEU:HD13	3:C:50:LEU:HA	1.88	0.54
4:D:203:PRO:O	4:D:207:GLN:HG3	2.07	0.54
4:D:227:PHE:HA	4:D:277:MET:O	2.07	0.54
5:E:269:ASN:HA	5:E:272:LEU:HD12	1.89	0.54
5:E:325:TYR:CZ	5:E:406:ARG:HD2	2.42	0.54
5:E:492:LEU:HG	5:E:496:ILE:HD11	1.89	0.54
8:2:338:LYS:HE3	8:2:380:THR:HG23	1.88	0.54
8:2:384:ASN:ND2	8:2:412:ALA:O	2.39	0.54
9:3:403:ILE:HG23	9:3:544:ASP:HB2	1.89	0.54
9:3:702:LEU:HD23	9:3:702:LEU:C	2.28	0.54
10:4:211:GLU:HG3	10:4:212:ARG:HG2	1.89	0.54
10:4:601:LEU:C	10:4:619:GLY:HA3	2.27	0.54
10:4:756:GLU:O	10:4:759:HIS:NE2	2.40	0.54
11:5:384:ILE:O	11:5:388:ILE:HG13	2.08	0.54
12:6:544:LYS:HA	12:6:547:ILE:CD1	2.37	0.54
12:6:641:PHE:CZ	12:6:680:ALA:HB3	2.42	0.54
12:6:776:LYS:HA	12:6:779:GLU:CG	2.36	0.54
12:6:802:SER:O	12:6:806:LEU:HG	2.07	0.54
12:6:764:ILE:O	12:6:818:GLU:HG2	2.07	0.54
13:7:196:LEU:HD11	13:7:270:PHE:CE1	2.42	0.54
13:7:452:GLY:H	13:7:694:ARG:HD3	1.72	0.54
13:7:67:LEU:CD2	13:7:125:MET:HA	2.38	0.54
13:7:427:ASP:OD2	13:7:722:VAL:HG11	2.07	0.54
2:B:189:MET:SD	2:B:192:LEU:HD22	2.47	0.54
4:D:202:MET:HG2	4:D:207:GLN:HA	1.89	0.54
5:E:44:MET:HE1	5:E:255:ILE:HG22	1.88	0.54
8:2:257:ALA:O	8:2:261:ALA:N	2.40	0.54
8:2:526:ASN:HA	8:2:532:SER:CA	2.36	0.54
8:2:608:GLU:HG3	8:2:651:ASN:H	1.72	0.54
8:2:778:LEU:CA	8:2:829:VAL:HB	2.35	0.54
9:3:100:LEU:HB2	9:3:160:SER:HB3	1.90	0.54
9:3:107:ASP:HB2	9:3:110:PHE:HB3	1.89	0.54
10:4:224:LEU:CD1	10:4:227:ILE:HG12	2.38	0.54
10:4:243:LEU:HB2	10:4:303:VAL:CG1	2.37	0.54
10:4:725:THR:O	10:4:728:TYR:HB2	2.07	0.54
9:3:558:ASP:OD2	11:5:627:VAL:HA	2.08	0.54
11:5:64:ASN:O	11:5:68:LEU:HG	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:79:LEU:HD12	11:5:83:PRO:HA	1.89	0.54
11:5:97:VAL:O	11:5:101:ILE:HG13	2.07	0.54
12:6:669:HIS:CE1	12:6:671:THR:HG23	2.42	0.54
13:7:245:ILE:CD1	13:7:343:LEU:HD22	2.37	0.54
1:A:136:ASP:O	1:A:139:THR:OG1	2.21	0.54
2:B:15:GLU:O	2:B:18:PHE:HB3	2.08	0.54
2:B:193:ARG:HB2	4:D:227:PHE:HE2	1.70	0.54
5:E:466:LEU:HD13	5:E:470:ARG:CZ	2.37	0.54
5:E:481:TRP:O	5:E:484:LEU:HB3	2.07	0.54
7:G:5:DA:H2'	7:G:6:DT:H72	1.89	0.54
8:2:383:ARG:NE	8:2:411:LEU:HD23	2.23	0.54
8:2:569:GLN:OE1	8:2:613:ASN:N	2.35	0.54
8:2:587:LYS:HG3	8:2:588:GLU:HG2	1.89	0.54
9:3:103:LEU:HB2	9:3:111:TRP:CE3	2.26	0.54
9:3:658:LYS:HG2	9:3:661:GLN:NE2	2.23	0.54
10:4:652:GLN:HE21	10:4:668:ARG:HA	1.73	0.54
11:5:161:ARG:CA	11:5:295:VAL:HG22	2.37	0.54
11:5:256:LEU:HD13	11:5:278:CYS:HB2	1.89	0.54
8:2:634:ALA:O	11:5:448:GLY:N	2.40	0.54
11:5:384:ILE:HG12	11:5:554:PHE:CD2	2.42	0.54
12:6:151:ILE:CD1	12:6:265:ILE:HG23	2.23	0.54
13:7:21:ILE:HG22	13:7:25:LEU:CD1	2.38	0.54
13:7:521:CYS:N	13:7:562:SER:O	2.39	0.54
2:B:108:HIS:O	2:B:155:LYS:NZ	2.32	0.54
2:B:127:PHE:HA	2:B:131:LYS:HB3	1.88	0.54
2:B:127:PHE:HE2	2:B:142:ARG:HG2	1.71	0.54
3:C:5:ASP:HB3	3:C:8:ASP:CG	2.28	0.54
4:D:224:TRP:HB2	4:D:280:GLU:HB2	1.88	0.54
4:D:267:VAL:HB	4:D:268:GLU:O	2.07	0.54
5:E:148:VAL:CG1	5:E:150:ASP:HB2	2.37	0.54
5:E:474:VAL:O	5:E:477:PHE:HB3	2.07	0.54
5:E:540:ARG:NH2	5:E:573:ASP:HB3	2.22	0.54
8:2:283:TYR:HB3	8:2:286:TYR:HB2	1.90	0.54
8:2:479:GLU:HA	8:2:482:ARG:HD3	1.89	0.54
8:2:850:LYS:HG2	8:2:851:VAL:N	2.22	0.54
9:3:104:ARG:HG3	9:3:111:TRP:CE3	2.43	0.54
9:3:172:THR:CG2	9:3:176:LEU:HB2	2.38	0.54
9:3:187:THR:O	9:3:257:THR:OG1	2.17	0.54
9:3:262:PRO:HA	9:3:265:ALA:HB2	1.89	0.54
9:3:472:ILE:HG21	9:3:475:PHE:HD1	1.72	0.54
9:3:519:VAL:CG2	9:3:534:ALA:HB2	2.30	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:654:PRO:HA	9:3:657:ARG:NH2	2.22	0.54
9:3:658:LYS:HA	9:3:661:GLN:NE2	2.21	0.54
10:4:248:LEU:HB3	10:4:258:TYR:HB2	1.90	0.54
10:4:506:LEU:HA	10:4:509:ILE:HD13	1.89	0.54
10:4:601:LEU:CG	10:4:621:LEU:HG	2.36	0.54
11:5:369:ILE:HD11	11:5:593:GLU:CA	2.32	0.54
11:5:461:GLU:CG	11:5:462:PHE:H	1.98	0.54
12:6:137:ARG:HA	12:6:140:ILE:CD1	2.38	0.54
12:6:142:PHE:HA	12:6:145:ILE:CG1	2.38	0.54
9:3:245:TYR:CD2	13:7:356:LEU:HD22	2.42	0.54
13:7:613:ALA:O	13:7:617:THR:N	2.40	0.54
13:7:709:ASP:O	13:7:712:ASP:HB3	2.07	0.54
1:A:170:ASP:OD2	1:A:204:TYR:HA	2.07	0.54
2:B:25:ILE:HD12	2:B:87:ILE:HD13	1.89	0.54
2:B:26:LYS:O	2:B:88:VAL:HG12	2.07	0.54
3:C:109:ILE:HA	3:C:112:ILE:CG2	2.37	0.54
4:D:218:MET:HA	4:D:219:ILE:C	2.27	0.54
5:E:129:TRP:HH2	5:E:143:PHE:HB3	1.72	0.54
5:E:414:GLY:O	5:E:417:GLY:N	2.38	0.54
7:G:7:DC:H2"	7:G:8:DG:H8	1.71	0.54
8:2:247:ARG:HH22	8:2:301:PRO:HG2	1.73	0.54
8:2:241:SER:HA	8:2:293:ILE:HG23	1.89	0.54
8:2:297:ILE:HG22	8:2:298:SER:H	1.73	0.54
8:2:493:ILE:O	8:2:497:ILE:HG13	2.07	0.54
8:2:560:ALA:CB	8:2:563:ALA:HB2	2.33	0.54
8:2:603:VAL:HG22	8:2:645:SER:CB	2.35	0.54
8:2:660:THR:C	8:2:850:LYS:HG3	2.28	0.54
8:2:812:SER:O	8:2:816:ILE:HG13	2.07	0.54
8:2:821:ALA:O	8:2:825:LEU:N	2.40	0.54
9:3:195:LYS:HE2	9:3:216:ASP:OD2	2.07	0.54
9:3:38:TYR:CD2	9:3:98:ILE:HG12	2.43	0.54
10:4:292:ASP:HA	10:4:293:LEU:CD1	2.36	0.54
10:4:322:ILE:O	10:4:439:PHE:HB3	2.08	0.54
11:5:301:TYR:CD2	11:5:327:TYR:CD2	2.96	0.54
11:5:625:ASN:O	11:5:628:THR:OG1	2.18	0.54
12:6:151:ILE:CD1	12:6:153:ILE:HG23	2.37	0.54
12:6:158:LEU:HD22	12:6:170:ILE:CD1	2.37	0.54
12:6:360:ARG:HG3	12:6:377:LEU:O	2.07	0.54
12:6:569:ILE:HA	12:6:805:ARG:HH11	1.71	0.54
12:6:608:LEU:CA	12:6:627:ALA:HB3	2.38	0.54
12:6:696:ARG:CZ	12:6:703:ALA:HB2	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:353:GLY:HA2	13:7:379:GLN:HB2	1.89	0.54
2:B:193:ARG:HH21	4:D:226:LYS:HA	1.73	0.54
4:D:194:VAL:HG22	4:D:199:LEU:HD11	1.90	0.54
4:D:200:LYS:CA	4:D:201:TYR:HB2	2.37	0.54
6:F:23:DT:H1'	6:F:24:DT:C2	2.43	0.54
8:2:383:ARG:HH21	8:2:411:LEU:CD2	2.21	0.54
8:2:446:VAL:HG11	12:6:301:ARG:CB	2.35	0.54
8:2:612:MET:O	8:2:617:ARG:NH2	2.36	0.54
9:3:198:ARG:N	9:3:249:THR:OG1	2.33	0.54
9:3:254:GLN:CD	9:3:278:LEU:HD12	2.28	0.54
10:4:610:ASP:OD1	10:4:611:THR:N	2.40	0.54
11:5:485:MET:CE	11:5:490:ARG:HG3	2.38	0.54
11:5:568:ILE:HA	11:5:571:HIS:CB	2.36	0.54
12:6:308:SER:HA	12:6:319:ASP:CA	2.37	0.54
12:6:300:VAL:HG22	12:6:357:GLN:HB3	1.88	0.54
13:7:395:SER:C	13:7:397:VAL:H	2.11	0.54
13:7:612:LEU:O	13:7:616:VAL:HG23	2.06	0.54
13:7:26:VAL:HG13	13:7:64:MET:HG2	1.90	0.54
1:A:123:LEU:HD21	1:A:127:GLU:CB	2.28	0.54
2:B:6:HIS:HA	2:B:7:LEU:C	2.28	0.54
3:C:82:THR:O	3:C:86:ASN:ND2	2.41	0.54
1:A:91:ARG:HA	4:D:190:TRP:CH2	2.42	0.54
4:D:282:ILE:CD1	4:D:286:LEU:HD13	2.36	0.54
5:E:150:ASP:HB3	5:E:152:LEU:HB2	1.90	0.54
5:E:161:LYS:HB3	5:E:233:TYR:CE2	2.43	0.54
5:E:316:LEU:HD21	5:E:413:LEU:O	2.07	0.54
5:E:34:LEU:CD1	5:E:543:LEU:HD11	2.25	0.54
8:2:419:LYS:HG3	8:2:420:PRO:HD2	1.90	0.54
8:2:584:PRO:CD	8:2:585:ILE:HB	2.37	0.54
9:3:166:LEU:HD23	9:3:175:HIS:CD2	2.43	0.54
9:3:451:GLU:O	9:3:452:THR:OG1	2.18	0.54
10:4:653:THR:HG22	10:4:666:ASN:HA	1.88	0.54
10:4:678:ILE:HD11	10:4:693:ASP:CB	2.38	0.54
11:5:56:VAL:CG1	11:5:58:ASN:HB2	2.38	0.54
11:5:95:THR:O	11:5:99:LYS:N	2.29	0.54
12:6:143:MET:CE	12:6:150:THR:H	2.21	0.54
12:6:118:PHE:HD1	12:6:161:ARG:HH11	1.55	0.54
12:6:112:ARG:HH21	12:6:180:PHE:HA	1.72	0.54
12:6:822:SER:O	12:6:826:GLU:HG3	2.06	0.54
13:7:260:TYR:HB2	13:7:269:VAL:HB	1.90	0.54
4:D:154:PHE:O	4:D:158:LEU:HG	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:499:ALA:HA	5:E:502:LEU:CD1	2.38	0.54
9:3:417:GLN:HG3	11:5:404:MET:CE	2.38	0.54
9:3:472:ILE:HB	9:3:514:ALA:CA	2.38	0.54
10:4:419:VAL:HG23	10:4:420:TYR:N	2.22	0.54
10:4:827:ARG:HA	10:4:830:ARG:HB2	1.88	0.54
11:5:256:LEU:N	11:5:276:MET:O	2.41	0.54
8:2:334:LEU:HD11	11:5:322:ALA:O	2.07	0.54
11:5:630:ARG:HE	11:5:648:ILE:CG2	2.21	0.54
12:6:823:PHE:HA	12:6:826:GLU:CD	2.27	0.54
13:7:242:ARG:HB3	13:7:350:ASP:OD1	2.07	0.54
10:4:454:LYS:HA	13:7:277:THR:HG22	1.90	0.54
13:7:470:LEU:CD2	13:7:564:LEU:HD22	2.38	0.54
13:7:511:GLY:HA2	13:7:515:LEU:HB2	1.90	0.54
1:A:149:ILE:HD11	4:D:140:ILE:HD13	1.88	0.54
1:A:173:GLU:HB3	1:A:183:LEU:N	2.16	0.54
2:B:160:LEU:HG	2:B:163:LEU:CD1	2.38	0.54
2:B:175:LEU:HD12	2:B:178:ILE:HB	1.90	0.54
3:C:24:ILE:O	3:C:37:PRO:HA	2.08	0.54
4:D:258:VAL:HG13	4:D:260:ILE:HG13	1.90	0.54
5:E:418:SER:C	5:E:419:ILE:HD12	2.28	0.54
8:2:696:ALA:O	8:2:700:VAL:HG23	2.08	0.53
9:3:95:ARG:HH22	9:3:282:LEU:HD11	1.73	0.53
9:3:674:GLU:HA	9:3:677:ASN:OD1	2.08	0.53
9:3:700:ARG:O	9:3:704:THR:HG23	2.07	0.53
10:4:195:ARG:HG2	10:4:279:CYS:SG	2.48	0.53
10:4:585:THR:HG21	10:4:628:VAL:N	2.19	0.53
11:5:433:SER:HB2	11:5:476:VAL:HG21	1.90	0.53
11:5:551:ASP:OD2	11:5:658:ARG:NH2	2.40	0.53
11:5:633:LEU:HD12	11:5:648:ILE:CD1	2.37	0.53
11:5:643:ARG:HH12	11:5:692:ALA:HA	1.73	0.53
12:6:568:ASP:OD1	12:6:569:ILE:N	2.41	0.53
12:6:725:THR:O	12:6:729:SER:N	2.41	0.53
9:3:504:THR:HG22	13:7:316:GLN:NE2	2.23	0.53
13:7:599:LEU:HD13	13:7:601:LEU:HD23	1.91	0.53
13:7:701:LYS:O	13:7:704:LEU:HD23	2.07	0.53
1:A:84:ARG:HD2	3:C:3:TYR:C	2.28	0.53
3:C:109:ILE:CA	3:C:112:ILE:HG22	2.36	0.53
3:C:188:LYS:O	3:C:191:MET:HB2	2.07	0.53
3:C:192:PHE:CE2	11:5:43:GLN:HB2	2.43	0.53
4:D:200:LYS:N	4:D:201:TYR:HB2	2.22	0.53
5:E:308:ASN:CB	5:E:310:VAL:HG23	2.35	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:41:ALA:HA	5:E:44:MET:HG2	1.90	0.53
5:E:493:ASN:HA	5:E:496:ILE:CB	2.37	0.53
5:E:96:LEU:HB3	5:E:98:ILE:HD13	1.91	0.53
8:2:297:ILE:HG22	8:2:298:SER:N	2.22	0.53
8:2:324:VAL:CG1	8:2:420:PRO:HA	2.38	0.53
8:2:549:LYS:HA	8:2:552:ILE:HD13	1.90	0.53
8:2:759:PRO:HG2	8:2:762:LEU:CG	2.38	0.53
9:3:500:ALA:N	9:3:501:GLY:HA3	2.24	0.53
10:4:348:LYS:HB3	10:4:353:ASP:OD1	2.08	0.53
10:4:356:MET:HB2	10:4:372:GLU:CG	2.35	0.53
10:4:376:CYS:CB	10:4:377:ASN:C	2.76	0.53
10:4:447:ASN:O	10:4:448:SER:OG	2.23	0.53
10:4:682:TYR:O	10:4:691:ASN:ND2	2.40	0.53
10:4:704:LEU:HD11	10:4:832:ALA:HB2	1.89	0.53
11:5:279:ASP:OD2	11:5:329:LYS:HE2	2.08	0.53
11:5:378:ILE:HD12	11:5:378:ILE:N	2.23	0.53
12:6:364:ASN:CB	12:6:394:ARG:HD3	2.38	0.53
12:6:397:PHE:CD1	12:6:459:VAL:HG22	2.42	0.53
12:6:574:VAL:CA	12:6:581:LYS:HZ1	2.20	0.53
8:2:571:ALA:HB3	12:6:665:LYS:HE3	1.89	0.53
13:7:101:ASP:OD2	13:7:104:SER:N	2.38	0.53
13:7:17:LEU:O	13:7:21:ILE:HG13	2.08	0.53
13:7:399:GLU:HA	13:7:402:MET:HB2	1.90	0.53
13:7:477:SER:OG	13:7:520:ILE:HD13	2.08	0.53
1:A:37:ILE:HA	1:A:40:ILE:CD1	2.37	0.53
5:E:311:LYS:HG3	5:E:415:TYR:CE2	2.43	0.53
5:E:577:ASP:O	5:E:633:ARG:HD2	2.08	0.53
8:2:548:ALA:HB2	14:2:901:ATP:C4	2.44	0.53
8:2:640:LEU:H	11:5:445:SER:CB	2.20	0.53
9:3:198:ARG:O	9:3:248:SER:HB2	2.08	0.53
9:3:48:TYR:CE2	9:3:92:LEU:HG	2.43	0.53
12:6:372:SER:O	12:6:373:MET:HB3	2.08	0.53
12:6:636:CYS:N	12:6:677:SER:O	2.29	0.53
13:7:81:ASP:HA	13:7:205:LYS:O	2.08	0.53
13:7:259:ALA:H	13:7:305:SER:HB3	1.74	0.53
13:7:314:LYS:C	13:7:315:ILE:HD12	2.29	0.53
13:7:228:ARG:HH22	13:7:326:HIS:CB	2.20	0.53
13:7:366:LEU:O	13:7:367:LYS:HD2	2.07	0.53
13:7:416:LYS:CD	13:7:426:LEU:HD12	2.37	0.53
3:C:17:PRO:HA	3:C:45:SER:HA	1.90	0.53
4:D:56:PRO:HA	4:D:90:ARG:HH12	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:91:ILE:HD12	4:D:92:SER:N	2.24	0.53
5:E:157:GLU:HA	5:E:161:LYS:HG2	1.90	0.53
5:E:308:ASN:HB3	5:E:310:VAL:CG2	2.36	0.53
5:E:363:PHE:HB3	5:E:368:ILE:HB	1.89	0.53
5:E:388:LEU:HG	5:E:392:PHE:CZ	2.42	0.53
5:E:39:LEU:O	5:E:42:THR:OG1	2.23	0.53
8:2:523:VAL:N	8:2:822:LYS:HZ1	2.06	0.53
8:2:523:VAL:CG1	8:2:525:LYS:HB3	2.30	0.53
8:2:536:ASP:HB3	8:2:645:SER:CA	2.36	0.53
9:3:440:VAL:HA	11:5:505:ALA:CB	2.38	0.53
10:4:311:CYS:HB2	10:4:326:ILE:HG23	1.91	0.53
10:4:330:GLY:HA3	10:4:399:LEU:HD21	1.91	0.53
10:4:682:TYR:HB2	10:4:691:ASN:HD21	1.72	0.53
10:4:693:ASP:OD1	10:4:694:LEU:N	2.41	0.53
11:5:398:LYS:O	11:5:405:ARG:HA	2.08	0.53
11:5:409:ASP:H	11:5:518:SER:CB	2.22	0.53
11:5:45:ILE:O	11:5:48:ASP:HB2	2.08	0.53
11:5:451:ALA:HA	11:5:467:GLY:HA3	1.89	0.53
11:5:63:VAL:HB	11:5:139:LEU:HA	1.90	0.53
11:5:90:PHE:HB2	11:5:137:LEU:CD2	2.38	0.53
12:6:811:ALA:O	12:6:815:CYS:N	2.42	0.53
12:6:831:LEU:O	12:6:835:ILE:HG13	2.09	0.53
13:7:225:LEU:H	13:7:241:VAL:HA	1.73	0.53
13:7:311:GLN:HB2	13:7:340:VAL:HG23	1.91	0.53
13:7:322:VAL:HG13	13:7:323:PRO:HD2	1.89	0.53
13:7:692:ILE:HA	13:7:695:LEU:CG	2.38	0.53
1:A:109:LEU:CG	1:A:111:SER:HB3	2.32	0.53
2:B:160:LEU:HD23	2:B:160:LEU:O	2.07	0.53
4:D:257:THR:O	4:D:269:LEU:HB2	2.09	0.53
4:D:94:GLN:HA	4:D:97:LEU:HB3	1.91	0.53
5:E:24:SER:OG	5:E:55:GLN:HB2	2.09	0.53
5:E:287:VAL:HG22	5:E:290:ARG:HH12	1.73	0.53
5:E:384:ILE:O	5:E:388:LEU:HB2	2.08	0.53
5:E:488:LYS:HB3	5:E:491:LEU:CD2	2.39	0.53
5:E:646:LEU:HD12	5:E:646:LEU:O	2.08	0.53
5:E:66:GLU:HG3	5:E:70:HIS:CD2	2.43	0.53
6:F:10:DT:H2'	6:F:11:DC:C6	2.44	0.53
8:2:239:SER:O	8:2:240:GLU:HG2	2.08	0.53
8:2:524:PRO:HB2	8:2:525:LYS:CA	2.37	0.53
8:2:569:GLN:HG3	8:2:576:LEU:HD11	1.91	0.53
8:2:785:LYS:HG3	8:2:788:ARG:NH2	2.17	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:122:ILE:O	9:3:126:GLU:HG3	2.09	0.53
9:3:223:THR:HG21	11:5:245:HIS:H	1.73	0.53
9:3:443:THR:HG22	9:3:459:ALA:CA	2.37	0.53
10:4:333:LEU:HG	10:4:400:GLN:H	1.74	0.53
10:4:370:ARG:HD3	10:4:379:PRO:N	2.24	0.53
10:4:601:LEU:HB3	10:4:621:LEU:HG	1.91	0.53
10:4:618:SER:HB3	10:4:622:VAL:HG11	1.90	0.53
10:4:592:SER:CA	10:4:632:ASP:HB2	2.25	0.53
10:4:656:ILE:HG23	10:4:658:LYS:NZ	2.24	0.53
11:5:161:ARG:CB	11:5:295:VAL:HG22	2.38	0.53
11:5:479:ILE:O	11:5:522:ALA:HB3	2.09	0.53
12:6:721:GLU:N	12:6:721:GLU:OE1	2.36	0.53
13:7:610:GLU:O	13:7:614:GLU:N	2.30	0.53
13:7:700:ALA:O	13:7:704:LEU:N	2.42	0.53
2:B:26:LYS:HD3	2:B:68:SER:OG	2.09	0.53
2:B:72:VAL:O	2:B:75:ILE:HG12	2.09	0.53
4:D:157:TYR:HA	4:D:160:GLN:HB2	1.91	0.53
5:E:313:PRO:O	5:E:316:LEU:HD22	2.08	0.53
5:E:363:PHE:HD1	5:E:368:ILE:HD12	1.73	0.53
5:E:511:VAL:HA	5:E:514:LEU:CD1	2.38	0.53
5:E:581:VAL:N	5:E:630:ILE:O	2.32	0.53
7:G:14:DT:H2"	7:G:15:DC:C6	2.43	0.53
9:3:127:LYS:O	9:3:131:ASP:N	2.30	0.53
9:3:197:ILE:HB	9:3:249:THR:OG1	2.08	0.53
9:3:281:ASP:O	9:3:285:LYS:HE2	2.07	0.53
10:4:267:GLU:O	10:4:270:SER:OG	2.17	0.53
11:5:97:VAL:O	11:5:100:ARG:HB2	2.09	0.53
11:5:165:ILE:HD12	11:5:262:PRO:HD3	1.91	0.53
11:5:277:THR:OG1	11:5:329:LYS:HA	2.09	0.53
8:2:631:ILE:HA	11:5:443:GLY:H	1.72	0.53
12:6:173:GLN:HB3	12:6:177:PHE:CE2	2.43	0.53
10:4:342:MET:HE3	12:6:448:LEU:HD22	1.91	0.53
12:6:651:ALA:HA	12:6:654:GLU:CB	2.39	0.53
12:6:801:GLU:O	12:6:804:ILE:HB	2.08	0.53
13:7:442:LYS:HB3	13:7:450:ILE:CG1	2.34	0.53
13:7:517:ASP:CA	13:7:561:THR:HG22	2.38	0.53
1:A:97:LEU:HB3	1:A:131:LEU:CD1	2.39	0.53
3:C:162:THR:N	3:C:163:SER:CA	2.71	0.53
3:C:182:GLU:HA	3:C:185:LYS:HB2	1.90	0.53
3:C:25:PRO:HA	3:C:37:PRO:CA	2.39	0.53
3:C:36:ARG:N	3:C:37:PRO:HD2	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:389:GLY:O	5:E:393:ASP:N	2.39	0.53
8:2:235:GLY:O	8:2:238:ASN:N	2.41	0.53
8:2:386:GLN:HB3	8:2:410:LEU:HD12	1.90	0.53
8:2:429:ILE:CD1	8:2:431:LYS:HE2	2.37	0.53
8:2:794:ARG:O	8:2:798:ILE:HG13	2.09	0.53
8:2:838:ILE:HG21	8:2:863:ILE:HG22	1.91	0.53
9:3:685:ASP:OD1	13:7:606:ARG:NH2	2.27	0.53
10:4:178:ARG:O	10:4:179:ILE:HB	2.09	0.53
10:4:276:ILE:O	10:4:280:MET:HG2	2.09	0.53
10:4:280:MET:HG3	10:4:301:TYR:CE2	2.44	0.53
10:4:463:VAL:O	10:4:463:VAL:HG23	2.08	0.53
10:4:630:CYS:HA	10:4:672:LEU:O	2.09	0.53
11:5:302:ASN:ND2	11:5:324:ARG:HG2	2.24	0.53
11:5:277:THR:OG1	11:5:329:LYS:HD2	2.09	0.53
11:5:547:LEU:HA	11:5:550:PHE:CD2	2.44	0.53
11:5:656:ILE:HD11	11:5:684:PHE:CE2	2.44	0.53
12:6:112:ARG:HB2	12:6:180:PHE:HB3	1.89	0.53
13:7:227:VAL:HG11	13:7:329:ARG:HB3	1.90	0.53
13:7:260:TYR:CD1	13:7:298:LEU:HD13	2.43	0.53
13:7:348:ILE:HG22	13:7:384:HIS:HD2	1.73	0.53
2:B:74:TRP:CH2	2:B:75:ILE:HG22	2.44	0.53
4:D:194:VAL:HG22	4:D:199:LEU:CD1	2.38	0.53
5:E:351:TRP:HB2	5:E:511:VAL:CG1	2.39	0.53
8:2:208:ALA:CA	8:2:211:LEU:HG	2.39	0.53
8:2:383:ARG:HH21	8:2:411:LEU:HD21	1.74	0.53
9:3:359:ILE:O	9:3:363:LEU:HG	2.09	0.53
9:3:437:SER:HA	9:3:440:VAL:H	1.72	0.53
9:3:687:ARG:NH1	9:3:697:ILE:O	2.42	0.53
10:4:352:CYS:N	10:4:353:ASP:CA	2.71	0.53
11:5:27:ILE:O	11:5:30:SER:OG	2.20	0.53
11:5:643:ARG:HD2	11:5:691:ALA:O	2.09	0.53
12:6:109:GLU:HA	12:6:112:ARG:HB3	1.90	0.53
13:7:214:ARG:HB3	13:7:215:TYR:C	2.29	0.53
10:4:727:LEU:HD22	13:7:444:VAL:CB	2.39	0.53
13:7:456:VAL:O	13:7:564:LEU:HG	2.09	0.53
1:A:175:GLN:HG2	1:A:183:LEU:CD2	2.39	0.53
1:A:84:ARG:HD2	3:C:3:TYR:CA	2.39	0.53
3:C:52:ARG:NH1	4:D:215:SER:OG	2.41	0.53
4:D:232:VAL:CB	4:D:271:ILE:HA	2.38	0.53
5:E:12:TYR:CE1	5:E:48:LEU:HD21	2.43	0.53
5:E:356:LYS:HG2	5:E:360:HIS:CE1	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:424:PHE:O	5:E:428:LEU:HG	2.09	0.53
5:E:488:LYS:O	5:E:491:LEU:HG	2.08	0.53
8:2:684:ARG:HB3	8:2:685:ASP:HB3	1.91	0.53
8:2:500:SER:HB2	8:2:763:LEU:HD22	1.90	0.53
9:3:378:LYS:HA	9:3:381:ILE:HD12	1.91	0.53
9:3:403:ILE:HG22	9:3:405:ILE:CD1	2.38	0.53
9:3:553:ILE:HD13	11:5:630:ARG:CD	2.39	0.53
9:3:562:SER:O	9:3:566:LEU:N	2.42	0.53
9:3:683:TYR:OH	9:3:687:ARG:HD2	2.09	0.53
10:4:437:GLY:HA3	10:4:464:VAL:H	1.73	0.53
13:7:106:ILE:O	13:7:110:ALA:HB2	2.09	0.53
13:7:367:LYS:O	13:7:370:LEU:HD22	2.09	0.53
1:A:103:ASN:OD1	1:A:104:ASN:N	2.41	0.53
1:A:127:GLU:CD	4:D:193:LEU:HD11	2.29	0.53
1:A:165:VAL:HG22	1:A:207:LYS:O	2.09	0.53
1:A:44:VAL:HG13	1:A:45:SER:H	1.73	0.53
1:A:55:LYS:HA	1:A:72:TYR:OH	2.08	0.53
1:A:79:MET:HB3	4:D:206:LEU:CD1	2.38	0.53
2:B:181:LEU:HD13	2:B:185:ILE:HD13	1.91	0.53
2:B:187:GLU:OE1	3:C:179:LYS:HD3	2.08	0.53
5:E:254:GLN:O	5:E:257:SER:OG	2.19	0.53
5:E:68:ARG:HH11	5:E:95:PHE:HA	1.73	0.53
5:E:73:GLN:CG	5:E:74:LEU:HG	2.32	0.53
8:2:366:ASN:CB	8:2:367:CYS:CB	2.86	0.53
8:2:628:SER:HB2	8:2:640:LEU:O	2.09	0.53
9:3:220:THR:OG1	9:3:221:LEU:N	2.42	0.53
9:3:683:TYR:HA	9:3:686:LEU:CD1	2.39	0.53
10:4:284:ILE:HG23	10:4:290:ASP:HB2	1.91	0.53
10:4:686:LEU:HG	10:4:687:PRO:HD2	1.91	0.53
10:4:726:ASN:C	10:4:727:LEU:HG	2.29	0.53
10:4:499:ARG:CZ	10:4:749:MET:HB3	2.39	0.53
11:5:93:ALA:HA	11:5:96:GLN:CD	2.29	0.53
11:5:97:VAL:HG22	11:5:100:ARG:HD2	1.91	0.53
8:2:311:GLU:CD	12:6:354:LEU:HA	2.30	0.53
12:6:685:VAL:HG21	12:6:700:ASN:HB2	1.91	0.53
13:7:692:ILE:HD11	13:7:717:LEU:HG	1.89	0.53
3:C:82:THR:HA	3:C:85:MET:CG	2.39	0.53
5:E:98:ILE:HD12	5:E:98:ILE:N	2.24	0.53
9:3:340:GLN:HG2	9:3:341:MET:N	2.24	0.52
9:3:408:VAL:HA	9:3:415:LYS:NZ	2.24	0.52
10:4:435:VAL:HG22	10:4:466:VAL:HG13	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:501:ILE:CD1	10:4:749:MET:HB2	2.39	0.52
10:4:530:ILE:N	10:4:530:ILE:HD12	2.24	0.52
11:5:182:MET:HE2	11:5:189:THR:HG22	1.91	0.52
11:5:451:ALA:HB2	11:5:467:GLY:HA3	1.91	0.52
11:5:481:GLU:O	11:5:484:LYS:N	2.43	0.52
11:5:77:LYS:HA	11:5:80:SER:CB	2.39	0.52
12:6:167:ALA:HA	12:6:170:ILE:HG13	1.89	0.52
13:7:599:LEU:HD13	13:7:601:LEU:CD2	2.40	0.52
1:A:113:ILE:HD12	1:A:113:ILE:N	2.24	0.52
1:A:52:GLU:O	1:A:56:GLU:N	2.42	0.52
2:B:54:THR:HG22	2:B:55:THR:H	1.74	0.52
1:A:79:MET:C	4:D:206:LEU:HD11	2.29	0.52
4:D:284:ASP:O	4:D:287:ARG:HB3	2.09	0.52
4:D:80:PRO:HG2	4:D:84:MET:HE3	1.90	0.52
5:E:271:TRP:O	5:E:275:LEU:HG	2.08	0.52
5:E:288:TYR:HA	5:E:291:LEU:CB	2.39	0.52
2:B:142:ARG:NH1	5:E:314:ASP:OD2	2.42	0.52
5:E:31:VAL:O	5:E:61:ILE:N	2.41	0.52
8:2:494:ILE:O	8:2:498:ILE:HD12	2.09	0.52
8:2:663:LEU:HD23	8:2:667:VAL:HG12	1.91	0.52
9:3:130:THR:HG22	9:3:153:TRP:CG	2.44	0.52
9:3:176:LEU:HD23	9:3:177:ASN:HB2	1.90	0.52
9:3:368:ALA:HB2	9:3:378:LYS:CE	2.39	0.52
9:3:441:GLY:CA	9:3:462:MET:HB3	2.28	0.52
9:3:485:ALA:O	9:3:489:VAL:HG23	2.10	0.52
9:3:413:THR:CG2	9:3:549:VAL:HG21	2.39	0.52
10:4:513:ALA:HA	10:4:518:LEU:HD13	1.90	0.52
11:5:545:THR:O	11:5:549:ARG:NH1	2.41	0.52
13:7:67:LEU:HD21	13:7:125:MET:HA	1.90	0.52
13:7:208:SER:HB3	13:7:209:GLN:CB	2.40	0.52
13:7:212:ALA:HA	13:7:216:ARG:HB3	1.91	0.52
13:7:393:LEU:HD12	13:7:393:LEU:O	2.08	0.52
13:7:433:LEU:HG	13:7:702:LEU:HD11	1.89	0.52
3:C:162:THR:OG1	3:C:163:SER:HA	2.09	0.52
3:C:75:LEU:CG	3:C:76:PRO:HD2	2.37	0.52
1:A:157:PRO:HG3	4:D:138:PHE:CZ	2.43	0.52
4:D:188:LEU:HD23	4:D:189:ILE:N	2.24	0.52
4:D:199:LEU:HB3	4:D:202:MET:HB2	1.91	0.52
5:E:130:ASN:HB3	5:E:133:ASN:OD1	2.09	0.52
5:E:285:ALA:HB3	5:E:286:GLN:C	2.29	0.52
5:E:345:ASN:HA	5:E:350:LEU:CD1	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:344:VAL:CG1	5:E:350:LEU:HD11	2.38	0.52
5:E:428:LEU:HA	5:E:431:LEU:CD1	2.39	0.52
8:2:323:VAL:HG21	8:2:394:PRO:HD2	1.92	0.52
8:2:502:ALA:HB1	8:2:505:ILE:HD12	1.90	0.52
8:2:533:ILE:HG22	8:2:534:ARG:H	1.75	0.52
9:3:123:PRO:N	9:3:124:PRO:HD2	2.23	0.52
9:3:325:THR:OG1	9:3:326:VAL:N	2.42	0.52
9:3:443:THR:HA	9:3:458:GLU:O	2.09	0.52
10:4:654:ILE:HG22	10:4:656:ILE:HD11	1.91	0.52
10:4:719:GLU:O	10:4:723:HIS:N	2.40	0.52
10:4:775:VAL:O	10:4:779:LYS:HB2	2.10	0.52
11:5:414:LEU:O	11:5:422:LYS:HD3	2.09	0.52
11:5:45:ILE:HD11	11:5:67:HIS:CE1	2.45	0.52
11:5:79:LEU:HA	11:5:86:ILE:HD12	1.91	0.52
12:6:143:MET:HE2	12:6:150:THR:N	2.24	0.52
12:6:364:ASN:CG	12:6:394:ARG:HD3	2.29	0.52
13:7:201:PHE:CZ	13:7:337:GLY:HA2	2.44	0.52
13:7:255:VAL:HB	13:7:307:PHE:CE1	2.44	0.52
1:A:124:SER:OG	1:A:127:GLU:HG2	2.10	0.52
1:A:16:THR:HA	1:A:19:LEU:CD1	2.40	0.52
2:B:192:LEU:O	2:B:195:ILE:HG13	2.09	0.52
2:B:82:GLN:NE2	2:B:84:LYS:HD2	2.24	0.52
3:C:16:PHE:N	3:C:46:LEU:O	2.41	0.52
3:C:85:MET:O	3:C:88:ILE:HG12	2.10	0.52
4:D:249:ASN:HB3	4:D:257:THR:HG22	1.90	0.52
4:D:286:LEU:HD12	4:D:291:VAL:CG1	2.39	0.52
5:E:288:TYR:HA	5:E:291:LEU:HG	1.91	0.52
8:2:247:ARG:HH22	8:2:301:PRO:CG	2.23	0.52
8:2:241:SER:OG	8:2:413:ASP:OD2	2.16	0.52
9:3:112:SER:HA	9:3:115:LEU:CD1	2.39	0.52
10:4:180:ILE:HB	10:4:183:THR:HB	1.92	0.52
10:4:331:LEU:HA	10:4:431:ASP:C	2.30	0.52
8:2:419:LYS:CG	11:5:269:GLU:HG2	2.37	0.52
11:5:632:GLN:O	11:5:635:ILE:HB	2.08	0.52
12:6:130:GLY:HA3	12:6:131:GLU:C	2.29	0.52
12:6:164:GLY:O	12:6:168:MET:HG2	2.09	0.52
12:6:291:SER:HA	12:6:395:CYS:O	2.08	0.52
12:6:611:ALA:N	12:6:612:VAL:HA	2.23	0.52
8:2:687:VAL:HG22	12:6:781:ARG:NH1	2.25	0.52
12:6:805:ARG:HA	12:6:808:GLU:OE1	2.10	0.52
13:7:110:ALA:O	13:7:114:THR:HG23	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:366:LEU:C	13:7:367:LYS:HD2	2.29	0.52
13:7:451:ARG:NH2	13:7:694:ARG:HH22	2.07	0.52
1:A:130:TYR:O	1:A:134:TYR:N	2.42	0.52
3:C:51:ALA:CA	3:C:54:LEU:HG	2.38	0.52
4:D:282:ILE:HD13	4:D:286:LEU:CD1	2.37	0.52
2:B:56:ASP:HB2	4:D:57:GLN:HG3	1.92	0.52
5:E:150:ASP:HB3	5:E:151:THR:CA	2.39	0.52
5:E:25:CYS:H	5:E:26:GLN:HB2	1.74	0.52
5:E:413:LEU:HD21	5:E:416:ARG:HD2	1.91	0.52
5:E:89:VAL:CG1	5:E:90:ILE:HD12	2.40	0.52
8:2:660:THR:O	8:2:850:LYS:HA	2.10	0.52
9:3:191:LEU:HD23	9:3:192:VAL:N	2.24	0.52
10:4:248:LEU:CD1	10:4:258:TYR:HA	2.40	0.52
10:4:248:LEU:CB	10:4:258:TYR:HB2	2.39	0.52
10:4:572:THR:HG21	10:4:708:VAL:CG1	2.39	0.52
10:4:794:THR:CG2	10:4:796:ARG:HB3	2.39	0.52
11:5:573:ILE:H	11:5:573:ILE:HD12	1.74	0.52
12:6:151:ILE:HD12	12:6:151:ILE:O	2.09	0.52
12:6:574:VAL:HG12	12:6:575:GLY:N	2.25	0.52
12:6:679:LEU:HD23	12:6:680:ALA:N	2.24	0.52
13:7:335:VAL:HG12	13:7:340:VAL:HA	1.92	0.52
13:7:349:VAL:HG23	13:7:382:ARG:C	2.30	0.52
2:B:151:ILE:HA	2:B:154:ILE:CG1	2.39	0.52
2:B:170:LEU:HD11	4:D:276:VAL:CG2	2.32	0.52
2:B:58:LYS:HG2	2:B:58:LYS:O	2.09	0.52
2:B:95:THR:HA	2:B:98:LEU:HD12	1.91	0.52
5:E:498:LEU:O	5:E:502:LEU:HG	2.09	0.52
5:E:351:TRP:HB3	5:E:511:VAL:HG22	1.91	0.52
5:E:515:GLU:OE1	8:2:827:GLU:HB3	2.09	0.52
9:3:201:HIS:CE1	9:3:243:THR:HA	2.44	0.52
9:3:360:PHE:HE2	9:3:379:LYS:HD3	1.75	0.52
9:3:434:GLY:C	9:3:478:MET:HG2	2.30	0.52
10:4:332:VAL:O	10:4:430:GLY:N	2.42	0.52
10:4:437:GLY:CA	10:4:464:VAL:H	2.23	0.52
10:4:563:ASN:ND2	10:4:671:ILE:HB	2.24	0.52
10:4:589:VAL:HB	10:4:629:CYS:SG	2.50	0.52
10:4:656:ILE:HD12	10:4:656:ILE:N	2.25	0.52
11:5:174:SER:HA	11:5:251:ILE:O	2.10	0.52
11:5:169:THR:HB	11:5:254:GLN:HG3	1.90	0.52
11:5:426:LEU:HD22	11:5:478:CYS:SG	2.49	0.52
12:6:162:GLU:HG3	12:6:165:ALA:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:655:ALA:CB	12:6:661:ILE:HD11	2.36	0.52
8:2:574:VAL:CG1	12:6:669:HIS:HA	2.39	0.52
12:6:690:ASN:O	12:6:693:LEU:HB2	2.10	0.52
12:6:793:TYR:O	12:6:794:ARG:HD3	2.09	0.52
12:6:781:ARG:CG	12:6:795:ILE:HB	2.39	0.52
1:A:130:TYR:CE1	4:D:189:ILE:HG13	2.44	0.52
1:A:140:ASP:O	1:A:143:SER:OG	2.19	0.52
1:A:162:PHE:HD1	1:A:192:ARG:HA	1.73	0.52
1:A:46:ASN:OD1	1:A:50:ASN:ND2	2.33	0.52
2:B:168:LEU:CB	2:B:170:LEU:HD21	2.39	0.52
3:C:129:LEU:C	3:C:129:LEU:HD23	2.30	0.52
3:C:166:LEU:HD23	3:C:166:LEU:O	2.10	0.52
4:D:154:PHE:C	4:D:158:LEU:HG	2.30	0.52
4:D:227:PHE:CD1	4:D:277:MET:HA	2.38	0.52
5:E:292:TYR:HB2	5:E:293:PRO:CD	2.33	0.52
8:2:235:GLY:HA2	8:2:283:TYR:OH	2.09	0.52
8:2:543:GLY:HA3	8:2:549:LYS:HZ3	1.75	0.52
8:2:587:LYS:HG3	8:2:588:GLU:H	1.74	0.52
8:2:676:ARG:HH22	11:5:418:PRO:HB3	1.74	0.52
9:3:377:ILE:HA	9:3:547:PHE:HE2	1.75	0.52
9:3:535:LEU:O	9:3:539:LEU:HD12	2.09	0.52
11:5:295:VAL:O	11:5:331:LEU:N	2.43	0.52
11:5:628:THR:O	11:5:632:GLN:N	2.40	0.52
11:5:86:ILE:HG23	11:5:89:LEU:CD1	2.29	0.52
12:6:103:VAL:O	12:6:107:THR:N	2.42	0.52
12:6:659:GLN:HG2	12:6:675:ARG:HG2	1.91	0.52
13:7:479:ARG:HB3	13:7:519:GLY:HA3	1.92	0.52
13:7:459:MET:CE	13:7:584:ILE:HG12	2.39	0.52
13:7:458:LEU:HD22	13:7:600:MET:HE3	1.92	0.52
1:A:42:LYS:O	1:A:46:ASN:HB2	2.10	0.52
2:B:100:ARG:CA	2:B:103:GLN:HB2	2.39	0.52
2:B:155:LYS:HG3	2:B:158:LYS:HD3	1.91	0.52
3:C:46:LEU:HB3	3:C:50:LEU:CD1	2.39	0.52
3:C:47:PRO:CG	3:C:50:LEU:HD21	2.40	0.52
3:C:89:LYS:HB2	9:3:104:ARG:NH1	2.24	0.52
2:B:196:HIS:ND1	4:D:263:LEU:HD21	2.25	0.52
5:E:362:MET:HG2	5:E:399:TYR:CZ	2.44	0.52
5:E:502:LEU:O	5:E:506:ILE:HG13	2.10	0.52
5:E:64:TYR:OH	5:E:90:ILE:HB	2.09	0.52
8:2:201:PRO:HG2	8:2:204:SER:OG	2.09	0.52
8:2:785:LYS:O	8:2:789:VAL:HG23	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:340:GLN:NE2	9:3:658:LYS:HD3	2.25	0.52
9:3:714:LYS:O	9:3:717:LEU:HD12	2.10	0.52
10:4:821:ASP:OD1	10:4:822:VAL:HG23	2.08	0.52
11:5:499:GLN:OE1	11:5:499:GLN:N	2.33	0.52
11:5:86:ILE:HG22	11:5:90:PHE:CE1	2.45	0.52
11:5:90:PHE:O	11:5:93:ALA:N	2.43	0.52
12:6:115:PHE:CE2	12:6:119:LEU:HD23	2.45	0.52
12:6:304:LEU:O	12:6:306:LYS:N	2.35	0.52
12:6:364:ASN:O	12:6:368:ILE:HG23	2.09	0.52
12:6:396:LYS:HB3	12:6:460:ILE:CG2	2.37	0.52
12:6:644:MET:HB3	12:6:648:ASP:OD2	2.09	0.52
12:6:651:ALA:HA	12:6:654:GLU:CG	2.40	0.52
12:6:632:ASP:CA	12:6:676:THR:HG22	2.32	0.52
12:6:821:PRO:HA	12:6:824:ILE:HG12	1.91	0.52
12:6:831:LEU:O	12:6:835:ILE:N	2.34	0.52
13:7:192:PHE:HB3	13:7:196:LEU:HD22	1.92	0.52
13:7:419:ALA:HB1	13:7:422:ILE:HG12	1.92	0.52
13:7:691:GLY:O	13:7:695:LEU:HG	2.09	0.52
2:B:157:LEU:HD11	3:C:137:HIS:HD2	1.74	0.52
2:B:94:THR:HG22	2:B:96:LYS:CG	2.39	0.52
1:A:83:LYS:HE3	4:D:206:LEU:O	2.09	0.52
5:E:612:ILE:HA	5:E:615:GLU:CB	2.40	0.52
8:2:554:LYS:HA	8:2:557:GLU:CD	2.31	0.52
8:2:663:LEU:HA	8:2:666:ASN:HB3	1.90	0.52
9:3:159:GLY:HA2	9:3:160:SER:CB	2.22	0.52
9:3:277:ILE:HG13	9:3:320:LEU:HD11	1.92	0.52
9:3:423:LEU:O	9:3:423:LEU:HD23	2.10	0.52
9:3:563:GLU:HA	9:3:566:LEU:HD12	1.91	0.52
10:4:417:LEU:HB2	10:4:463:VAL:CG1	2.40	0.52
11:5:352:GLU:N	11:5:352:GLU:OE1	2.36	0.52
11:5:410:ILE:HA	11:5:658:ARG:NH2	2.24	0.52
11:5:684:PHE:O	11:5:688:THR:HG23	2.10	0.52
12:6:109:GLU:O	12:6:112:ARG:HB3	2.10	0.52
13:7:143:LEU:HA	13:7:146:ARG:HD2	1.91	0.52
5:E:140:ILE:HD12	5:E:140:ILE:O	2.10	0.52
5:E:252:SER:O	5:E:256:TYR:N	2.34	0.52
5:E:287:VAL:CG1	5:E:291:LEU:HD21	2.37	0.52
5:E:572:ILE:HG21	5:E:579:TYR:CZ	2.44	0.52
5:E:57:GLN:OE1	5:E:58:ILE:N	2.41	0.52
8:2:338:LYS:NZ	8:2:376:ASN:OD1	2.42	0.52
8:2:609:PHE:HA	8:2:612:MET:SD	2.50	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:281:VAL:HG22	10:4:297:GLU:HB3	1.91	0.52
10:4:688:VAL:HG22	10:4:838:THR:HG23	1.92	0.52
10:4:682:TYR:HB2	10:4:691:ASN:ND2	2.25	0.52
11:5:148:LEU:O	11:5:272:ARG:NH1	2.43	0.52
11:5:536:PRO:HG3	11:5:643:ARG:CD	2.40	0.52
11:5:490:ARG:HH21	11:5:540:ILE:HG23	1.74	0.52
12:6:377:LEU:HD22	12:6:452:ILE:HG22	1.92	0.52
12:6:266:SER:HB2	12:6:458:HIS:HD2	1.75	0.52
12:6:655:ALA:HB2	12:6:661:ILE:CD1	2.38	0.52
3:C:57:VAL:HG12	3:C:71:PHE:CZ	2.45	0.52
3:C:86:ASN:OD1	3:C:87:ALA:N	2.43	0.52
5:E:357:LYS:HA	5:E:360:HIS:ND1	2.25	0.52
5:E:609:PHE:O	5:E:613:THR:HG23	2.10	0.52
6:F:16:DT:H6	6:F:16:DT:OP1	1.93	0.52
8:2:314:LEU:HD12	8:2:315:SER:CB	2.40	0.51
8:2:365:THR:CB	8:2:373:PHE:CE1	2.93	0.51
8:2:410:LEU:C	8:2:411:LEU:HD12	2.30	0.51
8:2:494:ILE:O	8:2:497:ILE:HB	2.10	0.51
9:3:166:LEU:HD12	9:3:182:VAL:HG22	1.90	0.51
9:3:386:MET:HE3	9:3:715:VAL:CG2	2.40	0.51
9:3:535:LEU:HB2	9:3:539:LEU:HD12	1.91	0.51
10:4:202:LYS:H	10:4:224:LEU:CA	2.23	0.51
10:4:332:VAL:HG13	10:4:397:ILE:HG23	1.91	0.51
10:4:416:SER:OG	10:4:459:THR:O	2.26	0.51
10:4:518:LEU:HG	10:4:522:LEU:HG	1.92	0.51
10:4:820:GLU:HA	10:4:823:GLN:NE2	2.25	0.51
10:4:777:MET:HE1	10:4:833:ILE:HD11	1.92	0.51
11:5:194:ILE:HG13	11:5:194:ILE:O	2.10	0.51
11:5:622:LEU:CD2	11:5:681:ILE:HD11	2.40	0.51
12:6:274:HIS:CB	12:6:288:LEU:HD21	2.39	0.51
12:6:390:LYS:HD2	12:6:391:PRO:CD	2.39	0.51
12:6:525:ILE:HD12	12:6:526:TYR:N	2.25	0.51
12:6:716:LEU:HD23	12:6:717:ASP:N	2.26	0.51
12:6:759:ARG:O	12:6:812:ARG:NH2	2.43	0.51
13:7:248:VAL:HA	13:7:312:GLU:O	2.10	0.51
13:7:310:PHE:CZ	13:7:334:HIS:HB3	2.45	0.51
2:B:173:LEU:HD12	2:B:174:SER:H	1.75	0.51
2:B:55:THR:CG2	4:D:94:GLN:HE22	2.23	0.51
2:B:64:VAL:HG21	2:B:67:ARG:CZ	2.40	0.51
4:D:123:LYS:CG	4:D:126:LEU:HD22	2.40	0.51
4:D:156:LEU:HD12	4:D:218:MET:HE2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:237:ASP:OD2	4:D:248:GLU:HG2	2.10	0.51
5:E:270:LEU:HD22	5:E:298:GLU:HB3	1.92	0.51
5:E:327:PHE:CZ	5:E:328:LEU:HG	2.45	0.51
5:E:324:TYR:HB3	5:E:404:ILE:CG2	2.40	0.51
7:G:5:DA:H5"	9:3:230:ILE:HD11	1.92	0.51
8:2:524:PRO:HA	8:2:535:GLY:HA3	1.93	0.51
8:2:619:SER:HA	8:2:622:GLU:CB	2.37	0.51
9:3:96:ILE:N	9:3:154:LYS:O	2.34	0.51
9:3:298:PHE:HD1	9:3:321:ILE:HG13	1.74	0.51
10:4:332:VAL:HB	10:4:430:GLY:N	2.24	0.51
11:5:169:THR:HB	11:5:254:GLN:HE21	1.76	0.51
11:5:619:ALA:O	11:5:623:SER:N	2.32	0.51
12:6:104:ASP:HB3	12:6:176:ARG:NH1	2.24	0.51
12:6:655:ALA:CA	12:6:661:ILE:HD11	2.40	0.51
12:6:552:LEU:CD1	12:6:755:ILE:HG23	2.31	0.51
13:7:543:GLN:CG	13:7:544:GLN:N	2.70	0.51
13:7:611:LYS:HA	13:7:614:GLU:OE1	2.11	0.51
13:7:715:GLU:OE2	13:7:718:ARG:NH1	2.28	0.51
1:A:157:PRO:HG2	2:B:14:GLU:OE1	2.08	0.51
2:B:15:GLU:O	2:B:19:ILE:HG13	2.08	0.51
2:B:177:GLU:HA	2:B:180:GLU:CG	2.40	0.51
3:C:100:ILE:HG13	3:C:101:ASN:N	2.25	0.51
3:C:117:GLU:HG2	3:C:119:GLU:H	1.75	0.51
4:D:123:LYS:O	4:D:126:LEU:HB3	2.11	0.51
4:D:67:TRP:HE1	4:D:142:SER:HB3	1.75	0.51
4:D:79:TYR:CE1	4:D:176:SER:HB2	2.45	0.51
8:2:338:LYS:CE	8:2:379:LYS:HB2	2.24	0.51
8:2:580:VAL:CG2	8:2:592:GLU:H	2.24	0.51
8:2:617:ARG:HA	8:2:620:ILE:CD1	2.40	0.51
9:3:130:THR:CG2	9:3:153:TRP:HB2	2.39	0.51
10:4:278:ASP:O	10:4:282:SER:N	2.37	0.51
10:4:336:THR:O	10:4:395:GLN:NE2	2.43	0.51
11:5:585:ASN:O	11:5:589:GLU:HG2	2.09	0.51
11:5:88:PRO:HD3	11:5:196:ASN:ND2	2.17	0.51
12:6:288:LEU:HD12	12:6:289:SER:H	1.74	0.51
12:6:294:VAL:HB	12:6:391:PRO:HA	1.91	0.51
12:6:551:MET:HG2	12:6:635:ILE:CD1	2.40	0.51
12:6:613:VAL:CB	12:6:622:THR:HB	2.25	0.51
12:6:660:THR:HB	12:6:672:LEU:O	2.11	0.51
12:6:801:GLU:CD	12:6:805:ARG:HH21	2.13	0.51
13:7:145:GLN:HA	13:7:148:LEU:CB	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:23:ASP:O	13:7:27:THR:OG1	2.28	0.51
13:7:513:LEU:CD1	13:7:540:VAL:HG21	2.30	0.51
13:7:646:LYS:HA	13:7:701:LYS:HE3	1.92	0.51
1:A:123:LEU:HD23	1:A:124:SER:O	2.11	0.51
1:A:130:TYR:CB	4:D:193:LEU:HD13	2.39	0.51
1:A:182:ASN:ND2	5:E:74:LEU:HB3	2.25	0.51
2:B:72:VAL:HG12	2:B:75:ILE:HD13	1.92	0.51
4:D:136:LEU:HD23	4:D:136:LEU:O	2.09	0.51
5:E:366:MET:HG2	5:E:391:ILE:HG22	1.91	0.51
5:E:48:LEU:HD22	5:E:49:PHE:CD1	2.46	0.51
5:E:533:GLY:O	5:E:536:LEU:HD23	2.10	0.51
8:2:423:GLU:CB	8:2:459:ARG:HB2	2.25	0.51
8:2:573:ALA:HB3	12:6:669:HIS:CD2	2.45	0.51
8:2:611:LYS:N	8:2:611:LYS:HD2	2.25	0.51
8:2:814:LEU:HD12	8:2:814:LEU:H	1.76	0.51
9:3:169:ARG:NE	9:3:266:PRO:HG3	2.26	0.51
9:3:275:ASP:N	9:3:275:ASP:OD1	2.40	0.51
9:3:433:THR:HG22	9:3:473:ASP:HB2	1.91	0.51
9:3:553:ILE:CG1	11:5:630:ARG:HD2	2.40	0.51
10:4:532:GLU:O	10:4:537:LYS:HE2	2.11	0.51
10:4:654:ILE:HG22	10:4:656:ILE:CD1	2.39	0.51
10:4:824:GLU:CA	10:4:827:ARG:HB3	2.29	0.51
11:5:649:THR:O	11:5:652:GLN:HB2	2.10	0.51
11:5:378:ILE:HG23	14:5:801:ATP:N1	2.24	0.51
12:6:118:PHE:CE1	12:6:161:ARG:HD3	2.45	0.51
12:6:542:ALA:HA	12:6:545:LYS:HZ3	1.75	0.51
13:7:18:PHE:CE1	13:7:120:ALA:HB2	2.46	0.51
13:7:210:ASN:HA	13:7:213:ARG:HG2	1.92	0.51
13:7:67:LEU:HD21	13:7:125:MET:CB	2.40	0.51
1:A:139:THR:HA	1:A:142:LYS:CG	2.40	0.51
1:A:165:VAL:CG1	1:A:205:LEU:HB3	2.38	0.51
2:B:21:GLU:HB3	2:B:74:TRP:HB3	1.92	0.51
5:E:127:ARG:HB3	5:E:128:PRO:HA	1.91	0.51
5:E:157:GLU:OE2	5:E:236:VAL:HG11	2.11	0.51
5:E:312:THR:O	5:E:316:LEU:HB2	2.10	0.51
5:E:539:TYR:HD1	5:E:544:THR:CG2	2.23	0.51
10:4:527:ALA:CB	10:4:530:ILE:HD13	2.26	0.51
10:4:752:SER:HA	10:4:755:LYS:CD	2.36	0.51
10:4:545:PHE:CB	10:4:810:LYS:HD2	2.40	0.51
11:5:151:LEU:CD1	11:5:274:LEU:HD11	2.39	0.51
1:A:22:ARG:HH22	11:5:355:GLU:HB2	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:485:MET:HE3	11:5:490:ARG:HG3	1.92	0.51
12:6:293:THR:O	12:6:362:GLN:N	2.42	0.51
12:6:395:CYS:HB2	12:6:397:PHE:CE1	2.46	0.51
12:6:515:GLU:O	12:6:519:MET:N	2.44	0.51
12:6:731:ILE:HG22	12:6:735:HIS:NE2	2.25	0.51
12:6:810:ILE:CD1	12:6:827:ALA:HB2	2.26	0.51
13:7:205:LYS:HG3	13:7:205:LYS:O	2.11	0.51
13:7:363:PHE:O	13:7:364:LYS:HB2	2.10	0.51
13:7:429:LYS:HA	13:7:432:LEU:CD1	2.41	0.51
13:7:472:ALA:O	13:7:476:ILE:HD12	2.10	0.51
13:7:518:ASN:CB	13:7:560:ARG:HE	2.23	0.51
13:7:695:LEU:O	13:7:699:LEU:N	2.37	0.51
1:A:106:GLY:N	1:A:107:LEU:HD13	2.25	0.51
1:A:192:ARG:NH2	4:D:127:LEU:HD12	2.25	0.51
1:A:16:THR:HA	1:A:19:LEU:CG	2.39	0.51
1:A:26:ASP:O	1:A:27:VAL:CG1	2.59	0.51
2:B:142:ARG:O	2:B:146:GLN:HB2	2.11	0.51
2:B:160:LEU:HG	2:B:163:LEU:HD11	1.91	0.51
2:B:7:LEU:HD23	2:B:10:THR:CG2	2.37	0.51
3:C:98:HIS:O	3:C:102:SER:HB3	2.10	0.51
3:C:19:LYS:O	3:C:73:GLU:N	2.39	0.51
5:E:148:VAL:HG12	5:E:150:ASP:HB2	1.91	0.51
5:E:269:ASN:HA	5:E:272:LEU:CD1	2.40	0.51
8:2:347:ILE:O	8:2:348:LEU:HB3	2.11	0.51
8:2:325:THR:HB	8:2:389:THR:OG1	2.11	0.51
8:2:589:TRP:O	8:2:590:THR:HG23	2.11	0.51
8:2:653:ASN:HB2	8:2:658:ASN:ND2	2.26	0.51
9:3:502:ILE:HG22	9:3:504:THR:HG23	1.91	0.51
9:3:733:LEU:O	9:3:736:ALA:HB3	2.11	0.51
10:4:577:ILE:O	10:4:581:VAL:HG23	2.10	0.51
10:4:629:CYS:O	10:4:672:LEU:N	2.31	0.51
10:4:557:ARG:NH2	10:4:652:GLN:HB3	2.18	0.51
10:4:729:LEU:HB3	10:4:730:GLU:CD	2.31	0.51
11:5:172:LEU:HB3	11:5:252:ASP:CG	2.30	0.51
11:5:536:PRO:HG3	11:5:643:ARG:HD3	1.93	0.51
12:6:297:THR:CA	12:6:359:VAL:HG12	2.34	0.51
12:6:585:LEU:HD21	12:6:679:LEU:CD2	2.41	0.51
12:6:803:MET:HE1	12:6:828:TYR:HA	1.92	0.51
12:6:791:SER:HB3	12:6:838:VAL:HB	1.92	0.51
13:7:258:ILE:HD12	13:7:271:GLN:NE2	2.26	0.51
13:7:428:VAL:O	13:7:432:LEU:HG	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:518:ASN:H	13:7:560:ARG:C	2.13	0.51
13:7:517:ASP:HA	13:7:561:THR:CG2	2.40	0.51
13:7:715:GLU:O	13:7:719:LEU:HD13	2.10	0.51
1:A:70:CYS:O	1:A:74:VAL:HG23	2.10	0.51
2:B:51:GLN:HG2	2:B:53:ILE:HD11	1.93	0.51
2:B:84:LYS:CD	4:D:124:LEU:HD21	2.41	0.51
3:C:12:ASP:HB3	3:C:49:TRP:HD1	1.72	0.51
4:D:159:ARG:O	4:D:163:GLU:HG2	2.09	0.51
5:E:619:LYS:HB3	5:E:633:ARG:CG	2.40	0.51
8:2:230:ARG:HG2	8:2:242:LEU:HG	1.93	0.51
8:2:246:TYR:H	8:2:298:SER:CB	2.19	0.51
8:2:440:ALA:O	8:2:442:ASN:HB2	2.10	0.51
8:2:601:LYS:N	8:2:643:ARG:O	2.28	0.51
9:3:405:ILE:HG22	9:3:406:LEU:N	2.26	0.51
10:4:344:VAL:HG22	10:4:359:GLU:HB3	1.92	0.51
10:4:375:ASP:HA	10:4:376:CYS:C	2.31	0.51
10:4:543:GLN:NE2	10:4:562:ILE:O	2.43	0.51
10:4:607:ARG:O	10:4:609:VAL:HG23	2.10	0.51
10:4:758:ILE:HD11	10:4:813:LEU:HA	1.92	0.51
9:3:314:LEU:O	11:5:175:ARG:NH2	2.44	0.51
11:5:148:LEU:HD23	11:5:260:GLU:CB	2.38	0.51
11:5:441:GLY:HA2	11:5:442:LYS:HB2	1.93	0.51
11:5:468:ALA:HA	11:5:471:LEU:HD12	1.91	0.51
11:5:412:VAL:CB	11:5:520:LEU:HG	2.24	0.51
11:5:543:GLN:HG3	11:5:546:ILE:CD1	2.40	0.51
11:5:63:VAL:CG1	11:5:68:LEU:HD21	2.41	0.51
12:6:182:GLN:OE1	12:6:182:GLN:N	2.30	0.51
12:6:186:ARG:HA	12:6:189:VAL:CG2	2.41	0.51
12:6:727:LEU:HB3	12:6:731:ILE:HD12	1.93	0.51
9:3:702:LEU:HD22	13:7:616:VAL:HG11	1.93	0.51
2:B:105:GLU:OE2	2:B:112:PHE:HA	2.10	0.51
1:A:102:TRP:CE2	2:B:3:LEU:HG	2.46	0.51
4:D:127:LEU:HD23	4:D:131:THR:OG1	2.10	0.51
5:E:357:LYS:O	5:E:361:LYS:N	2.42	0.51
5:E:97:GLU:HA	5:E:98:ILE:HB	1.93	0.51
8:2:502:ALA:HB1	8:2:505:ILE:CG1	2.40	0.51
8:2:608:GLU:HB3	8:2:611:LYS:HD3	1.93	0.51
9:3:128:ALA:HA	9:3:131:ASP:HB3	1.92	0.51
10:4:265:PRO:HB3	10:4:325:LEU:HG	1.93	0.51
11:5:608:LEU:CD1	11:5:609:LYS:HZ2	2.21	0.51
12:6:303:GLU:HB2	12:6:356:TRP:HD1	1.72	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:406:ASP:O	12:6:449:THR:HB	2.10	0.51
13:7:355:PHE:CE2	13:7:374:THR:HG21	2.46	0.51
1:A:169:LYS:HA	1:A:185:LYS:HD3	1.93	0.51
3:C:101:ASN:HD22	3:C:104:PHE:HB2	1.76	0.51
3:C:165:PHE:CE2	3:C:169:LEU:HD11	2.45	0.51
4:D:218:MET:CA	4:D:219:ILE:HB	2.40	0.51
5:E:526:ARG:HH11	5:E:565:LEU:HB2	1.76	0.51
8:2:242:LEU:HB3	8:2:295:VAL:HG12	1.92	0.51
8:2:314:LEU:O	8:2:315:SER:OG	2.27	0.51
8:2:695:LEU:HD11	14:2:901:ATP:N1	2.25	0.51
9:3:118:PRO:HB2	9:3:122:ILE:HD12	1.91	0.51
9:3:236:THR:HA	9:3:237:GLU:C	2.31	0.51
9:3:375:ASP:O	9:3:379:LYS:HG3	2.11	0.51
9:3:406:LEU:HB2	9:3:543:PHE:CE2	2.46	0.51
9:3:372:TYR:CZ	9:3:561:ILE:HA	2.45	0.51
11:5:427:LYS:O	11:5:431:LYS:HG2	2.11	0.51
11:5:569:ALA:O	11:5:573:ILE:HD12	2.11	0.51
11:5:605:TYR:O	11:5:608:LEU:HG	2.09	0.51
11:5:673:GLN:NE2	11:5:675:ARG:HH21	2.09	0.51
12:6:552:LEU:HD11	12:6:755:ILE:CG2	2.31	0.51
8:2:394:PRO:HB2	12:6:672:LEU:HD23	1.93	0.51
13:7:404:LEU:O	13:7:404:LEU:HD23	2.11	0.51
13:7:541:MET:HE3	13:7:594:PHE:HE1	1.75	0.51
3:C:25:PRO:CA	3:C:37:PRO:HB3	2.40	0.51
5:E:550:ASN:HA	5:E:553:ILE:HG22	1.93	0.51
8:2:499:SER:O	8:2:503:PRO:HG3	2.11	0.51
8:2:795:ARG:CA	8:2:798:ILE:HD12	2.37	0.51
9:3:169:ARG:HB2	9:3:260:GLU:CG	2.39	0.51
9:3:292:VAL:HG13	9:3:327:TYR:O	2.11	0.51
9:3:570:ARG:NH1	11:5:616:PRO:HB3	2.26	0.51
9:3:676:ILE:HA	9:3:679:ILE:HG12	1.93	0.51
10:4:343:LYS:HE2	10:4:392:ALA:HB3	1.93	0.51
10:4:456:LEU:HD21	13:7:252:LYS:HE2	1.93	0.51
11:5:392:LEU:O	11:5:607:ARG:NH2	2.35	0.51
12:6:174:TYR:CD2	12:6:178:LEU:HD11	2.46	0.51
12:6:751:LEU:HD23	12:6:755:ILE:HG13	1.92	0.51
13:7:201:PHE:CE2	13:7:337:GLY:HA2	2.46	0.51
13:7:587:PRO:HG2	13:7:590:LEU:HB3	1.91	0.51
2:B:189:MET:O	2:B:193:ARG:N	2.28	0.51
3:C:50:LEU:HD13	3:C:54:LEU:HD11	1.93	0.51
5:E:270:LEU:O	5:E:274:ILE:HG13	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:14:DT:H2''	7:G:15:DC:C5	2.46	0.51
8:2:323:VAL:O	8:2:390:LEU:HG	2.12	0.50
8:2:567:THR:HG23	8:2:568:GLY:N	2.26	0.50
8:2:778:LEU:HB3	8:2:829:VAL:HG21	1.94	0.50
8:2:836:ARG:O	8:2:840:VAL:HG23	2.11	0.50
9:3:669:PRO:HB3	9:3:713:ALA:HB1	1.93	0.50
10:4:342:MET:CG	12:6:417:PRO:HG3	2.41	0.50
10:4:344:VAL:HG13	10:4:359:GLU:CA	2.40	0.50
10:4:370:ARG:HD3	10:4:379:PRO:HA	1.93	0.50
10:4:564:ILE:N	10:4:564:ILE:HD12	2.27	0.50
10:4:589:VAL:HG11	10:4:624:SER:OG	2.11	0.50
10:4:799:GLU:O	10:4:803:ARG:HG3	2.12	0.50
10:4:545:PHE:CA	10:4:810:LYS:HD2	2.40	0.50
11:5:155:HIS:HA	11:5:158:LYS:HD2	1.93	0.50
11:5:181:ILE:HG21	11:5:241:TYR:HB3	1.91	0.50
11:5:261:ILE:HG23	11:5:262:PRO:HD2	1.93	0.50
12:6:108:GLY:O	12:6:112:ARG:N	2.40	0.50
12:6:139:GLN:O	12:6:143:MET:HB2	2.11	0.50
12:6:184:GLY:O	12:6:188:VAL:N	2.41	0.50
12:6:821:PRO:HA	12:6:824:ILE:CG1	2.40	0.50
13:7:18:PHE:O	13:7:21:ILE:HB	2.10	0.50
13:7:441:ASP:HA	13:7:452:GLY:HA2	1.93	0.50
1:A:149:ILE:CD1	4:D:141:ARG:HG2	2.42	0.50
1:A:185:LYS:HE3	1:A:186:ASP:OD1	2.11	0.50
3:C:109:ILE:O	3:C:113:MET:HG2	2.11	0.50
5:E:125:ALA:CB	5:E:247:VAL:HG13	2.41	0.50
5:E:380:MET:HE2	5:E:384:ILE:HG22	1.93	0.50
5:E:278:THR:CG2	5:E:425:VAL:HG21	2.41	0.50
5:E:493:ASN:CA	5:E:496:ILE:HD12	2.39	0.50
6:F:24:DT:C2'	6:F:25:DT:H71	2.41	0.50
8:2:798:ILE:HD13	11:5:560:HIS:CB	2.31	0.50
8:2:488:SER:CB	8:2:825:LEU:HD22	2.41	0.50
9:3:258:VAL:O	9:3:273:SER:HA	2.12	0.50
9:3:254:GLN:N	9:3:278:LEU:O	2.45	0.50
9:3:43:ARG:O	9:3:47:VAL:HG23	2.11	0.50
9:3:671:LEU:HD23	9:3:672:THR:N	2.25	0.50
9:3:704:THR:O	9:3:708:LEU:HD13	2.11	0.50
11:5:374:ILE:HG23	11:5:428:PHE:HE2	1.74	0.50
8:2:629:ILE:O	11:5:445:SER:HB2	2.11	0.50
11:5:540:ILE:HG21	11:5:546:ILE:HB	1.93	0.50
11:5:540:ILE:HG21	11:5:546:ILE:CG2	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:568:ASP:CG	12:6:569:ILE:H	2.13	0.50
12:6:819:ILE:CG2	12:6:820:THR:H	2.06	0.50
13:7:397:VAL:HG11	13:7:640:GLU:HG2	1.91	0.50
13:7:546:ILE:HD12	13:7:557:LEU:CD1	2.39	0.50
13:7:546:ILE:HB	13:7:557:LEU:HG	1.92	0.50
13:7:643:ALA:O	13:7:647:THR:HG23	2.11	0.50
1:A:163:ILE:HG22	1:A:164:ASP:N	2.26	0.50
2:B:51:GLN:HG2	2:B:53:ILE:CD1	2.41	0.50
2:B:78:LEU:O	2:B:81:GLN:HB3	2.10	0.50
3:C:17:PRO:O	3:C:75:LEU:HB3	2.11	0.50
3:C:46:LEU:HD13	3:C:54:LEU:HD12	1.92	0.50
2:B:79:LEU:CD2	4:D:124:LEU:HD23	2.41	0.50
5:E:499:ALA:HA	5:E:502:LEU:HG	1.92	0.50
5:E:511:VAL:HA	5:E:514:LEU:CG	2.41	0.50
5:E:433:GLU:HA	5:E:541:ASN:HD22	1.77	0.50
5:E:621:ARG:HD3	5:E:623:ASP:OD2	2.11	0.50
7:G:12:DG:H2'	7:G:13:DA:C8	2.47	0.50
8:2:264:PRO:HG3	8:2:317:LEU:H	1.77	0.50
8:2:433:ASN:HB2	8:2:434:TYR:HB2	1.93	0.50
8:2:441:LYS:HA	8:2:442:ASN:CB	2.38	0.50
9:3:139:VAL:HB	9:3:140:PRO:HD3	1.93	0.50
9:3:152:PRO:HB2	9:3:154:LYS:HE3	1.91	0.50
9:3:235:ASP:H	9:3:241:LEU:HD11	1.76	0.50
9:3:190:SER:HB2	9:3:255:ARG:HG3	1.92	0.50
9:3:158:LYS:HB2	9:3:327:TYR:CZ	2.46	0.50
9:3:447:THR:HG22	9:3:455:ARG:HE	1.75	0.50
10:4:192:THR:HA	10:4:195:ARG:HE	1.75	0.50
10:4:201:PHE:HZ	10:4:205:PHE:HB2	1.76	0.50
10:4:686:LEU:CD1	10:4:687:PRO:HD2	2.41	0.50
11:5:607:ARG:HA	11:5:665:LYS:CE	2.37	0.50
9:3:570:ARG:HH12	11:5:616:PRO:HB3	1.75	0.50
12:6:403:VAL:CG1	12:6:450:TYR:HB3	2.41	0.50
12:6:522:ASP:CB	12:6:525:ILE:HG23	2.37	0.50
13:7:245:ILE:CD1	13:7:343:LEU:HD13	2.41	0.50
13:7:548:ILE:HG23	13:7:550:LYS:HZ3	1.76	0.50
13:7:636:SER:CA	13:7:639:ARG:HH21	2.25	0.50
13:7:650:PRO:HA	13:7:706:ASP:HA	1.94	0.50
13:7:660:VAL:CG2	13:7:713:VAL:HG11	2.42	0.50
1:A:14:LYS:HD2	3:C:6:ILE:HD12	1.92	0.50
1:A:44:VAL:HG13	1:A:45:SER:N	2.26	0.50
2:B:124:ARG:HD3	3:C:190:TRP:CH2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:9:GLN:N	2:B:9:GLN:OE1	2.40	0.50
4:D:156:LEU:O	4:D:160:GLN:HG2	2.11	0.50
4:D:87:LEU:O	4:D:91:ILE:HG23	2.11	0.50
5:E:43:LYS:HB2	5:E:481:TRP:CH2	2.46	0.50
5:E:545:LEU:HA	5:E:548:LEU:CB	2.37	0.50
5:E:97:GLU:HA	5:E:98:ILE:O	2.10	0.50
8:2:335:LYS:CD	8:2:383:ARG:HD3	2.42	0.50
9:3:231:TYR:CD1	9:3:232:PRO:HD2	2.47	0.50
9:3:338:ALA:HB3	9:3:339:ARG:CA	2.41	0.50
9:3:191:LEU:HB3	9:3:456:ARG:HE	1.75	0.50
9:3:537:ASP:O	9:3:540:LEU:HD13	2.11	0.50
10:4:264:TYR:O	10:4:268:VAL:HG23	2.11	0.50
10:4:274:GLN:O	10:4:277:LYS:HB3	2.10	0.50
11:5:368:GLU:HA	11:5:371:THR:CG2	2.42	0.50
8:2:637:VAL:HB	11:5:447:ALA:HB2	1.92	0.50
11:5:620:GLU:HA	11:5:623:SER:OG	2.10	0.50
12:6:267:PHE:HD2	12:6:287:LEU:HD13	1.77	0.50
12:6:379:VAL:HA	12:6:454:PHE:O	2.12	0.50
12:6:512:GLU:O	12:6:515:GLU:HB3	2.12	0.50
12:6:691:ARG:HE	12:6:716:LEU:HD13	1.75	0.50
12:6:733:ASP:O	12:6:736:MET:HB2	2.10	0.50
12:6:773:LEU:HD23	12:6:773:LEU:C	2.31	0.50
12:6:714:VAL:O	12:6:837:ARG:HD3	2.11	0.50
13:7:322:VAL:HG12	13:7:323:PRO:O	2.12	0.50
13:7:333:ILE:HD11	13:7:376:LEU:HD23	1.91	0.50
13:7:660:VAL:HG22	13:7:713:VAL:CG1	2.41	0.50
1:A:20:TYR:HE1	1:A:25:GLN:HG3	1.77	0.50
2:B:115:LEU:HD13	2:B:119:TRP:HE1	1.76	0.50
3:C:106:SER:N	3:C:172:MET:SD	2.84	0.50
5:E:130:ASN:H	5:E:133:ASN:ND2	2.09	0.50
5:E:324:TYR:HD1	5:E:405:ILE:HA	1.76	0.50
5:E:59:VAL:HG12	5:E:61:ILE:CD1	2.42	0.50
5:E:90:ILE:HD12	5:E:90:ILE:N	2.26	0.50
9:3:195:LYS:N	9:3:251:ILE:O	2.43	0.50
9:3:669:PRO:HG3	9:3:713:ALA:HB3	1.93	0.50
10:4:277:LYS:HE3	10:4:297:GLU:O	2.11	0.50
10:4:407:PRO:HG2	10:4:410:GLN:HB2	1.94	0.50
10:4:577:ILE:O	10:4:581:VAL:N	2.33	0.50
10:4:685:ASN:O	10:4:838:THR:HB	2.11	0.50
11:5:192:ILE:HG22	11:5:193:THR:N	2.27	0.50
1:A:22:ARG:NH2	11:5:355:GLU:HB2	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:31:PHE:CZ	11:5:90:PHE:HE1	2.30	0.50
12:6:556:HIS:HA	12:6:567:GLY:CA	2.42	0.50
8:2:611:LYS:HB3	12:6:650:VAL:HG11	1.92	0.50
13:7:284:CYS:SG	13:7:286:SER:HB2	2.51	0.50
13:7:284:CYS:SG	13:7:289:CYS:HB2	2.51	0.50
13:7:77:SER:HB3	13:7:338:THR:OG1	2.12	0.50
13:7:685:THR:HB	13:7:686:PRO:HD2	1.93	0.50
1:A:39:ASN:HA	1:A:42:LYS:HE2	1.92	0.50
2:B:82:GLN:CD	2:B:84:LYS:HD2	2.31	0.50
3:C:111:TRP:CE3	3:C:114:LEU:HD23	2.46	0.50
3:C:92:PRO:O	3:C:131:ARG:NE	2.44	0.50
4:D:258:VAL:HG13	4:D:260:ILE:N	2.27	0.50
5:E:125:ALA:HB1	5:E:247:VAL:HG13	1.93	0.50
5:E:147:THR:HB	5:E:248:VAL:HG11	1.93	0.50
5:E:26:GLN:HB3	5:E:78:ILE:HA	1.93	0.50
5:E:288:TYR:HA	5:E:291:LEU:HD12	1.92	0.50
5:E:31:VAL:HG11	5:E:477:PHE:HZ	1.77	0.50
5:E:554:GLU:OE1	5:E:587:ARG:HB2	2.11	0.50
8:2:301:PRO:HB3	8:2:303:ILE:CG1	2.38	0.50
8:2:318:VAL:N	8:2:428:GLY:O	2.42	0.50
8:2:550:SER:HB2	14:2:901:ATP:PA	2.51	0.50
9:3:164:HIS:CG	9:3:180:VAL:HG22	2.47	0.50
9:3:347:ILE:O	9:3:351:ASN:ND2	2.45	0.50
9:3:461:ALA:HA	9:3:464:LEU:HB3	1.94	0.50
9:3:487:HIS:NE2	9:3:539:LEU:HD23	2.26	0.50
10:4:231:ASN:OD1	10:4:283:LEU:HD21	2.11	0.50
11:5:302:ASN:OD1	11:5:324:ARG:CG	2.59	0.50
11:5:400:LEU:HD12	11:5:400:LEU:O	2.11	0.50
11:5:40:LEU:O	11:5:40:LEU:HD12	2.11	0.50
11:5:599:MET:O	11:5:602:TYR:HB3	2.12	0.50
11:5:61:LEU:HD22	11:5:63:VAL:HG23	1.93	0.50
12:6:373:MET:HG3	12:6:374:PRO:HD2	1.93	0.50
10:4:337:PRO:HA	12:6:375:ARG:HD3	1.93	0.50
12:6:550:GLN:HG2	12:6:569:ILE:CG2	2.38	0.50
12:6:711:LEU:CD1	12:6:712:PHE:H	2.23	0.50
12:6:531:ARG:HG3	12:6:745:PRO:HG3	1.94	0.50
13:7:415:ALA:HA	13:7:418:ILE:CD1	2.42	0.50
13:7:587:PRO:O	13:7:590:LEU:HB3	2.11	0.50
10:4:728:TYR:HA	13:7:652:MET:CE	2.41	0.50
3:C:97:LEU:HD23	3:C:100:ILE:HD13	1.93	0.50
4:D:98:ILE:HA	4:D:101:ILE:HG22	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:292:ALA:C	4:D:293:LEU:HD12	2.32	0.50
5:E:330:ARG:HA	5:E:377:TRP:CD2	2.46	0.50
5:E:494:ARG:HG2	5:E:498:LEU:CD1	2.41	0.50
5:E:540:ARG:HH22	5:E:574:GLU:N	2.09	0.50
8:2:230:ARG:HH11	8:2:243:GLU:H	1.59	0.50
8:2:393:ALA:HB3	8:2:396:THR:OG1	2.11	0.50
8:2:566:ALA:O	8:2:567:THR:HG22	2.12	0.50
8:2:562:ARG:HD2	8:2:602:GLY:N	2.27	0.50
8:2:672:PRO:O	8:2:675:SER:HB3	2.12	0.50
8:2:778:LEU:HB2	8:2:783:MET:HE3	1.93	0.50
8:2:798:ILE:CG1	8:2:805:ILE:HD13	2.42	0.50
8:2:820:PHE:HA	8:2:823:MET:SD	2.52	0.50
9:3:416:SER:N	14:3:1001:ATP:O2B	2.43	0.50
9:3:197:ILE:O	9:3:214:TYR:HB2	2.12	0.50
9:3:217:ALA:O	9:3:301:LEU:HD22	2.12	0.50
9:3:535:LEU:HD12	9:3:535:LEU:O	2.11	0.50
11:5:451:ALA:CB	11:5:467:GLY:HA3	2.41	0.50
9:3:570:ARG:HA	11:5:613:ARG:HH21	1.76	0.50
13:7:259:ALA:N	13:7:305:SER:HB3	2.26	0.50
9:3:467:ARG:HG3	13:7:324:VAL:HG11	1.92	0.50
13:7:61:PRO:HG2	13:7:64:MET:CG	2.37	0.50
1:A:139:THR:HG22	1:A:142:LYS:HZ3	1.77	0.50
2:B:17:GLN:CA	2:B:20:VAL:HG12	2.38	0.50
4:D:224:TRP:HB3	4:D:280:GLU:CB	2.42	0.50
5:E:311:LYS:HG3	5:E:415:TYR:CZ	2.47	0.50
8:2:245:ASN:HA	8:2:298:SER:OG	2.12	0.50
8:2:580:VAL:HG21	8:2:592:GLU:N	2.26	0.50
8:2:674:LEU:HD23	8:2:674:LEU:C	2.32	0.50
8:2:798:ILE:HG13	8:2:805:ILE:HD13	1.92	0.50
9:3:130:THR:HG22	9:3:153:TRP:CB	2.41	0.50
9:3:199:SER:O	9:3:212:ARG:N	2.42	0.50
9:3:347:ILE:O	9:3:350:ILE:HB	2.12	0.50
9:3:569:HIS:CE1	11:5:406:LEU:HD21	2.46	0.50
9:3:570:ARG:HD2	11:5:614:LEU:CD1	2.42	0.50
10:4:249:LEU:HD12	10:4:250:ALA:CB	2.42	0.50
10:4:344:VAL:HG22	10:4:359:GLU:HB2	1.93	0.50
10:4:898:VAL:HG23	10:4:903:ILE:HG13	1.94	0.50
11:5:417:ASP:OD1	11:5:528:GLY:HA2	2.12	0.50
11:5:433:SER:CB	11:5:436:ALA:HB2	2.42	0.50
8:2:622:GLU:HB2	11:5:481:GLU:OE2	2.12	0.50
11:5:634:LEU:HA	11:5:637:GLU:CB	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:84:SER:HA	11:5:87:ILE:HD11	1.94	0.50
12:6:105:ASP:O	12:6:109:GLU:HB2	2.11	0.50
12:6:116:GLU:HA	12:6:119:LEU:CD2	2.42	0.50
12:6:548:LEU:CD1	12:6:548:LEU:H	2.23	0.50
12:6:559:THR:H	12:6:565:LEU:HD23	1.77	0.50
12:6:569:ILE:HD12	12:6:805:ARG:HD2	1.94	0.50
13:7:664:TYR:OH	13:7:668:ARG:NH2	2.25	0.50
1:A:129:GLU:O	1:A:132:LYS:HG2	2.12	0.50
1:A:31:MET:CE	1:A:33:HIS:HA	2.42	0.50
2:B:116:PRO:CB	2:B:119:TRP:HB3	2.41	0.50
2:B:195:ILE:HG22	3:C:109:ILE:HD13	1.94	0.50
3:C:3:TYR:CG	3:C:4:TYR:N	2.76	0.50
4:D:170:SER:HA	4:D:174:LEU:HB3	1.94	0.50
6:F:3:DC:H2'	6:F:4:DG:H8	1.77	0.50
8:2:212:LYS:O	8:2:215:LEU:HB3	2.12	0.50
9:3:254:GLN:NE2	9:3:278:LEU:HD12	2.26	0.50
9:3:42:VAL:HG13	9:3:153:TRP:CZ3	2.47	0.50
10:4:314:MET:HG2	10:4:413:HIS:CD2	2.46	0.50
10:4:564:ILE:HG23	10:4:704:LEU:C	2.32	0.50
11:5:412:VAL:C	11:5:413:LEU:HD12	2.32	0.50
11:5:500:GLN:NE2	11:5:516:ARG:HA	2.26	0.50
12:6:116:GLU:O	12:6:120:GLU:HG3	2.12	0.50
12:6:612:VAL:HG22	12:6:622:THR:O	2.12	0.50
12:6:668:ILE:HD12	12:6:668:ILE:N	2.26	0.50
13:7:414:LEU:O	13:7:417:SER:HB2	2.11	0.50
13:7:66:MET:O	13:7:69:LYS:HB3	2.12	0.50
1:A:100:MET:HE1	1:A:117:GLN:CA	2.42	0.50
2:B:167:HIS:NE2	4:D:267:VAL:HG11	2.27	0.50
2:B:55:THR:OG1	2:B:56:ASP:N	2.45	0.50
2:B:55:THR:OG1	2:B:56:ASP:OD1	2.30	0.50
5:E:287:VAL:HG22	5:E:290:ARG:NH1	2.27	0.50
5:E:511:VAL:HA	5:E:514:LEU:HD12	1.94	0.50
8:2:335:LYS:CB	8:2:382:TYR:HA	2.41	0.49
9:3:108:ARG:HA	9:3:111:TRP:HB3	1.94	0.49
9:3:189:THR:HG23	9:3:256:ILE:HG22	1.92	0.49
9:3:470:VAL:N	9:3:511:SER:O	2.45	0.49
11:5:61:LEU:HD22	11:5:63:VAL:CG2	2.42	0.49
12:6:386:VAL:O	12:6:387:GLU:HB3	2.11	0.49
12:6:528:LYS:HD3	12:6:531:ARG:NE	2.27	0.49
12:6:551:MET:CE	12:6:591:PHE:HE2	2.21	0.49
12:6:684:PRO:HB2	12:6:687:GLY:H	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:656:ARG:HH11	12:6:794:ARG:HD3	1.77	0.49
12:6:798:ARG:O	12:6:801:GLU:HB3	2.12	0.49
13:7:193:PRO:HD2	13:7:196:LEU:CD1	2.40	0.49
13:7:416:LYS:HD3	13:7:426:LEU:HD12	1.94	0.49
13:7:446:ASP:N	13:7:447:GLY:CA	2.72	0.49
13:7:583:ASN:OD1	13:7:584:ILE:N	2.45	0.49
13:7:656:VAL:HG12	13:7:710:ILE:CB	2.40	0.49
1:A:149:ILE:HA	1:A:150:ASP:CB	2.27	0.49
2:B:11:PHE:O	2:B:179:ASN:ND2	2.45	0.49
3:C:181:HIS:NE2	3:C:185:LYS:HD2	2.26	0.49
3:C:82:THR:HA	3:C:85:MET:CE	2.41	0.49
4:D:191:LEU:O	4:D:191:LEU:HD23	2.12	0.49
5:E:376:THR:HG22	5:E:378:LEU:N	2.19	0.49
5:E:38:ALA:HB1	5:E:84:VAL:HG11	1.95	0.49
5:E:581:VAL:O	5:E:629:ILE:HA	2.12	0.49
8:2:260:LEU:HA	8:2:264:PRO:HB3	1.95	0.49
8:2:301:PRO:HA	8:2:302:THR:OG1	2.12	0.49
9:3:179:LEU:HB2	9:3:297:VAL:HG22	1.94	0.49
9:3:303:ALA:HB2	9:3:307:ASN:HB2	1.93	0.49
9:3:367:LEU:CD1	9:3:378:LYS:HB3	2.39	0.49
9:3:434:GLY:O	9:3:478:MET:HG2	2.13	0.49
9:3:446:VAL:HG21	9:3:458:GLU:CG	2.42	0.49
9:3:570:ARG:HA	11:5:613:ARG:CZ	2.42	0.49
9:3:700:ARG:HA	9:3:703:GLU:CD	2.33	0.49
10:4:433:ILE:HG23	10:4:469:VAL:CA	2.42	0.49
10:4:762:ILE:HA	10:4:817:VAL:CG1	2.41	0.49
10:4:856:VAL:HG23	10:4:857:ILE:H	1.77	0.49
11:5:287:ILE:HB	11:5:290:THR:HG21	1.94	0.49
11:5:28:ILE:HG23	11:5:93:ALA:CB	2.40	0.49
12:6:141:GLU:O	12:6:145:ILE:HG12	2.12	0.49
12:6:143:MET:HE2	12:6:150:THR:CG2	2.41	0.49
12:6:175:TYR:HA	12:6:178:LEU:CD1	2.31	0.49
12:6:702:THR:OG1	12:6:704:PRO:HD2	2.11	0.49
13:7:196:LEU:HD23	13:7:197:THR:HG23	1.92	0.49
13:7:251:VAL:HA	13:7:310:PHE:O	2.12	0.49
13:7:317:GLU:CD	13:7:322:VAL:HG22	2.31	0.49
13:7:28:PHE:O	13:7:61:PRO:HB3	2.13	0.49
13:7:668:ARG:NH2	13:7:686:PRO:HD3	2.27	0.49
2:B:80:LYS:N	2:B:85:CYS:SG	2.85	0.49
2:B:87:ILE:HG21	2:B:130:ALA:HB1	1.94	0.49
4:D:141:ARG:HA	4:D:144:ILE:CG1	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:62:ASP:O	4:D:65:LYS:HB3	2.12	0.49
5:E:13:ASN:HA	5:E:16:LEU:CG	2.40	0.49
5:E:162:LEU:HD12	5:E:163:LEU:CD2	2.42	0.49
8:2:310:ARG:N	8:2:313:ASN:OD1	2.43	0.49
8:2:534:ARG:HH11	8:2:815:ARG:HH22	1.61	0.49
8:2:591:LEU:HD22	11:5:270:MET:SD	2.52	0.49
8:2:603:VAL:HG13	8:2:645:SER:CB	2.38	0.49
8:2:839:LYS:HD3	8:2:864:TYR:HA	1.94	0.49
8:2:695:LEU:HD11	14:2:901:ATP:N6	2.26	0.49
9:3:121:PHE:O	9:3:124:PRO:HG2	2.11	0.49
9:3:520:PHE:HE1	11:5:542:PHE:HB2	1.78	0.49
9:3:722:ASN:OD1	9:3:723:LYS:N	2.45	0.49
9:3:38:TYR:HE2	9:3:98:ILE:HG23	1.77	0.49
10:4:348:LYS:N	10:4:383:SER:O	2.44	0.49
10:4:533:LEU:O	10:4:536:VAL:HB	2.12	0.49
10:4:580:TYR:CE2	10:4:584:ILE:HD11	2.47	0.49
10:4:621:LEU:HB3	10:4:654:ILE:HD11	1.94	0.49
10:4:621:LEU:HD21	10:4:645:LEU:CD2	2.42	0.49
10:4:567:CYS:CB	10:4:675:ALA:HB3	2.42	0.49
11:5:172:LEU:HB3	11:5:252:ASP:OD1	2.13	0.49
11:5:355:GLU:HA	11:5:358:LEU:HD12	1.93	0.49
11:5:612:PRO:HG2	11:5:661:GLU:HB3	1.94	0.49
12:6:282:GLU:OE1	12:6:282:GLU:N	2.31	0.49
12:6:810:ILE:HG21	12:6:823:PHE:HB3	1.93	0.49
13:7:310:PHE:CE1	13:7:334:HIS:HB3	2.47	0.49
9:3:196:LEU:N	13:7:372:THR:HG23	2.26	0.49
13:7:696:SER:HB2	13:7:713:VAL:HA	1.93	0.49
2:B:28:PHE:CE1	2:B:68:SER:HB2	2.39	0.49
2:B:25:ILE:HD12	2:B:87:ILE:HD11	1.93	0.49
2:B:90:PRO:HB2	2:B:93:LEU:CB	2.42	0.49
3:C:131:ARG:O	3:C:135:LEU:HG	2.12	0.49
3:C:85:MET:O	3:C:89:LYS:HG3	2.13	0.49
4:D:260:ILE:O	4:D:260:ILE:HG22	2.11	0.49
5:E:228:LYS:O	5:E:232:GLU:N	2.43	0.49
5:E:482:ASP:OD1	5:E:488:LYS:HD2	2.12	0.49
5:E:569:LEU:CG	5:E:584:LEU:HD11	2.42	0.49
8:2:402:LEU:HD11	10:4:660:GLY:HA2	1.94	0.49
8:2:424:VAL:HG21	8:2:456:ILE:CG2	2.42	0.49
8:2:506:TYR:HB2	8:2:698:PHE:CE2	2.47	0.49
9:3:198:ARG:HB3	9:3:249:THR:CG2	2.40	0.49
7:G:5:DA:H5"	9:3:230:ILE:HD12	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:294:VAL:HA	9:3:326:VAL:HG22	1.94	0.49
9:3:447:THR:CB	9:3:448:THR:HA	2.30	0.49
9:3:538:SER:OG	9:3:542:ARG:NH1	2.44	0.49
10:4:208:ILE:HD11	10:4:250:ALA:HB2	1.93	0.49
10:4:428:ARG:HB2	10:4:431:ASP:OD2	2.13	0.49
11:5:202:GLY:N	11:5:203:ASN:HA	2.28	0.49
11:5:416:GLY:N	11:5:525:PRO:HD3	2.28	0.49
11:5:599:MET:O	11:5:603:ILE:HG13	2.12	0.49
11:5:390:CYS:HB2	11:5:662:SER:HB2	1.94	0.49
11:5:87:ILE:HB	11:5:196:ASN:HD21	1.78	0.49
12:6:158:LEU:HD23	12:6:158:LEU:O	2.12	0.49
12:6:550:GLN:HA	12:6:569:ILE:CG2	2.43	0.49
12:6:791:SER:HA	12:6:838:VAL:CG1	2.42	0.49
13:7:127:LEU:CG	13:7:128:PRO:HD3	2.34	0.49
13:7:14:TYR:HD1	13:7:17:LEU:HD22	1.78	0.49
13:7:397:VAL:HG12	13:7:640:GLU:HG2	1.93	0.49
1:A:191:VAL:HG12	1:A:192:ARG:N	2.28	0.49
2:B:53:ILE:H	2:B:53:ILE:HD12	1.77	0.49
1:A:41:LEU:HD22	4:D:201:TYR:CG	2.47	0.49
5:E:31:VAL:N	5:E:59:VAL:O	2.31	0.49
5:E:75:ASP:HA	5:E:78:ILE:HD13	1.94	0.49
9:3:676:ILE:HA	9:3:679:ILE:HD11	1.94	0.49
9:3:687:ARG:HG2	9:3:697:ILE:HG22	1.93	0.49
10:4:603:ALA:HB3	10:4:658:LYS:HZ3	1.77	0.49
11:5:358:LEU:O	11:5:362:ARG:HG3	2.12	0.49
11:5:413:LEU:HD11	11:5:550:PHE:CG	2.48	0.49
12:6:300:VAL:CG2	12:6:357:GLN:HB3	2.42	0.49
10:4:552:PHE:HA	12:6:740:GLU:OE1	2.12	0.49
13:7:220:ILE:N	13:7:220:ILE:HD12	2.28	0.49
13:7:322:VAL:CG1	13:7:323:PRO:HD2	2.42	0.49
10:4:529:SER:OG	13:7:448:MET:SD	2.63	0.49
13:7:470:LEU:HD22	13:7:522:CYS:CB	2.43	0.49
1:A:108:ASP:H	1:A:109:LEU:C	2.16	0.49
4:D:170:SER:CB	4:D:175:LEU:HD22	2.42	0.49
5:E:310:VAL:HG13	5:E:311:LYS:HD2	1.94	0.49
5:E:427:ALA:CB	5:E:492:LEU:HD11	2.42	0.49
5:E:99:ASP:O	5:E:101:GLN:HG3	2.13	0.49
8:2:483:GLU:O	8:2:487:ILE:HD12	2.13	0.49
8:2:484:PHE:CZ	8:2:766:TYR:HD1	2.31	0.49
8:2:523:VAL:HG12	8:2:525:LYS:CB	2.33	0.49
8:2:584:PRO:HD2	8:2:585:ILE:HB	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:603:VAL:CG1	8:2:645:SER:HB2	2.39	0.49
9:3:299:LYS:HG3	9:3:322:LEU:CD1	2.42	0.49
9:3:414:ALA:HB2	14:3:1001:ATP:C8	2.47	0.49
9:3:415:LYS:HG3	9:3:416:SER:N	2.28	0.49
9:3:95:ARG:HB2	9:3:154:LYS:CB	2.37	0.49
10:4:411:THR:OG1	10:4:412:PRO:HD2	2.13	0.49
10:4:631:ILE:HD11	10:4:671:ILE:HG21	1.94	0.49
9:3:314:LEU:CD2	11:5:201:THR:HG23	2.39	0.49
11:5:183:CYS:SG	11:5:240:PRO:HB2	2.52	0.49
12:6:275:ARG:O	12:6:279:ILE:HG13	2.13	0.49
12:6:523:GLU:OE1	12:6:524:HIS:ND1	2.38	0.49
12:6:516:LEU:HD22	12:6:754:TYR:HD1	1.78	0.49
12:6:756:LYS:O	12:6:760:THR:HG23	2.12	0.49
13:7:479:ARG:O	13:7:479:ARG:HG3	2.12	0.49
13:7:458:LEU:HB3	13:7:600:MET:CE	2.42	0.49
13:7:650:PRO:HA	13:7:706:ASP:CA	2.43	0.49
13:7:648:LYS:CE	13:7:704:LEU:HB3	2.38	0.49
13:7:704:LEU:C	13:7:706:ASP:H	2.16	0.49
1:A:108:ASP:HA	1:A:198:ARG:HD3	1.95	0.49
2:B:112:PHE:O	2:B:152:ARG:NH2	2.46	0.49
2:B:148:LEU:CA	2:B:151:ILE:HG12	2.41	0.49
2:B:173:LEU:HD23	2:B:178:ILE:HG12	1.95	0.49
3:C:97:LEU:CD2	3:C:100:ILE:HD13	2.42	0.49
3:C:109:ILE:HD12	3:C:112:ILE:CG2	2.42	0.49
4:D:258:VAL:HA	4:D:259:THR:CB	2.43	0.49
5:E:316:LEU:CD2	5:E:413:LEU:HD12	2.42	0.49
5:E:483:ALA:HA	5:E:491:LEU:HD11	1.95	0.49
8:2:207:ILE:O	8:2:211:LEU:HG	2.13	0.49
8:2:568:GLY:O	8:2:569:GLN:HB2	2.12	0.49
8:2:758:ILE:CG2	8:2:762:LEU:HB2	2.43	0.49
8:2:806:THR:HG22	8:2:808:ARG:N	2.28	0.49
9:3:329:LEU:HD12	9:3:329:LEU:O	2.13	0.49
9:3:353:LEU:HD23	9:3:359:ILE:CD1	2.43	0.49
9:3:680:VAL:CG2	13:7:617:THR:HG21	2.43	0.49
11:5:302:ASN:CB	11:5:324:ARG:NH1	2.75	0.49
11:5:31:PHE:O	11:5:35:ILE:HG13	2.12	0.49
11:5:374:ILE:HD11	11:5:389:VAL:CG2	2.43	0.49
11:5:413:LEU:HB2	11:5:553:ILE:CG2	2.36	0.49
11:5:367:TYR:CD1	11:5:663:LEU:HG	2.48	0.49
12:6:276:ILE:HD13	12:6:375:ARG:CG	2.43	0.49
12:6:355:ASP:HB3	12:6:356:TRP:CB	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:293:THR:CG2	12:6:392:GLY:HA2	2.43	0.49
12:6:560:VAL:CB	12:6:561:GLU:CA	2.84	0.49
13:7:213:ARG:C	13:7:215:TYR:HA	2.33	0.49
4:D:231:HIS:CB	4:D:274:ILE:HG22	2.43	0.49
5:E:268:SER:O	5:E:271:TRP:HB3	2.13	0.49
5:E:315:THR:N	5:E:316:LEU:CB	2.75	0.49
5:E:342:ASN:HD21	5:E:551:TRP:HA	1.77	0.49
5:E:634:ARG:CA	5:E:637:LEU:HG	2.41	0.49
8:2:795:ARG:HG3	8:2:796:GLU:N	2.27	0.49
10:4:226:TYR:OH	10:4:247:ASN:HB2	2.13	0.49
10:4:239:SER:HB2	10:4:299:LYS:NZ	2.28	0.49
10:4:315:ARG:NH1	13:7:250:ASP:HB3	2.27	0.49
10:4:714:GLU:CB	10:4:715:LYS:HB3	2.43	0.49
11:5:137:LEU:HD12	11:5:137:LEU:O	2.13	0.49
11:5:166:ILE:O	11:5:289:GLY:HA2	2.13	0.49
11:5:437:VAL:HG12	11:5:439:THR:CG2	2.43	0.49
9:3:262:PRO:O	11:5:514:ASN:ND2	2.45	0.49
11:5:64:ASN:HB3	11:5:67:HIS:HB3	1.94	0.49
12:6:133:GLU:CB	12:6:134:LYS:HA	2.25	0.49
12:6:183:LYS:HA	12:6:186:ARG:NH1	2.27	0.49
12:6:418:SER:HB2	12:6:420:THR:HG23	1.95	0.49
13:7:116:LEU:HA	13:7:119:ARG:HG2	1.95	0.49
13:7:25:LEU:CD1	13:7:120:ALA:HB3	2.43	0.49
9:3:191:LEU:CD2	13:7:329:ARG:HH12	2.17	0.49
9:3:194:PRO:HD2	13:7:373:GLU:HA	1.95	0.49
13:7:397:VAL:HG22	13:7:400:ARG:NH2	2.27	0.49
13:7:458:LEU:HD13	13:7:600:MET:CE	2.34	0.49
13:7:461:ASP:HA	13:7:462:PRO:O	2.12	0.49
13:7:490:GLY:O	13:7:494:THR:HG22	2.12	0.49
2:B:184:PHE:HB3	2:B:185:ILE:HD12	1.95	0.49
2:B:94:THR:HG21	2:B:96:LYS:HZ2	1.78	0.49
5:E:25:CYS:H	5:E:26:GLN:CA	2.26	0.49
5:E:47:LEU:HD23	5:E:47:LEU:O	2.11	0.49
5:E:564:LEU:HB3	5:E:586:PRO:CB	2.43	0.49
5:E:612:ILE:HA	5:E:615:GLU:HB2	1.94	0.49
5:E:76:ASP:H	5:E:78:ILE:CD1	2.25	0.49
8:2:617:ARG:O	8:2:620:ILE:HB	2.12	0.49
8:2:625:GLU:OE1	8:2:676:ARG:NE	2.44	0.49
9:3:21:PHE:CE1	9:3:124:PRO:HD3	2.48	0.49
10:4:282:SER:O	10:4:285:VAL:HG22	2.13	0.49
10:4:315:ARG:NH2	13:7:251:VAL:HG12	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:326:ILE:HG22	10:4:328:LEU:CG	2.41	0.49
10:4:354:HIS:CG	10:4:373:ARG:HG3	2.47	0.49
10:4:417:LEU:CD1	10:4:419:VAL:HG13	2.42	0.49
10:4:771:VAL:O	10:4:775:VAL:HG23	2.12	0.49
10:4:802:ILE:CD1	12:6:735:HIS:HB3	2.42	0.49
10:4:827:ARG:O	10:4:831:SER:N	2.42	0.49
11:5:96:GLN:O	11:5:100:ARG:HG3	2.13	0.49
11:5:148:LEU:HG	11:5:272:ARG:CD	2.36	0.49
11:5:488:GLU:O	11:5:491:VAL:HB	2.12	0.49
12:6:723:ILE:HA	12:6:726:GLU:HB2	1.95	0.49
12:6:800:LEU:O	12:6:803:MET:HB3	2.13	0.49
12:6:836:ILE:O	12:6:839:ASP:HB2	2.13	0.49
13:7:383:GLN:H	13:7:386:LYS:HE2	1.76	0.49
1:A:188:GLN:HG3	5:E:58:ILE:CD1	2.43	0.49
1:A:162:PHE:HD1	1:A:192:ARG:CA	2.26	0.49
1:A:24:ASN:OD1	1:A:25:GLN:N	2.42	0.49
4:D:232:VAL:CG2	4:D:269:LEU:HD12	2.43	0.49
5:E:120:ILE:CB	5:E:139:ILE:HB	2.39	0.49
5:E:231:HIS:HA	5:E:234:GLU:HB2	1.93	0.49
6:F:4:DG:H2'	6:F:5:DA:C8	2.48	0.49
7:G:12:DG:H2''	7:G:13:DA:C5'	2.43	0.49
8:2:296:ARG:HB3	8:2:455:SER:OG	2.13	0.49
8:2:302:THR:OG1	8:2:319:ARG:HB3	2.13	0.49
8:2:544:ASP:OD1	8:2:545:PRO:HD2	2.13	0.49
8:2:546:GLY:HA2	12:6:798:ARG:NH2	2.26	0.49
8:2:600:ASP:OD2	8:2:601:LYS:HG2	2.13	0.49
8:2:641:GLN:HB3	8:2:643:ARG:HH22	1.78	0.49
8:2:506:TYR:CD2	8:2:695:LEU:HD12	2.47	0.49
8:2:816:ILE:HG21	8:2:837:ALA:HA	1.94	0.49
9:3:103:LEU:HA	9:3:106:PHE:HB3	1.95	0.49
9:3:291:ARG:C	9:3:329:LEU:HG	2.33	0.49
10:4:241:LEU:HD23	10:4:243:LEU:N	2.22	0.49
10:4:355:THR:HG23	10:4:356:MET:CE	2.43	0.49
10:4:347:PHE:N	10:4:357:ALA:HB2	2.26	0.49
10:4:397:ILE:HB	10:4:417:LEU:HD21	1.94	0.49
10:4:829:ILE:O	10:4:833:ILE:HG13	2.13	0.49
11:5:178:TYR:HD1	11:5:193:THR:CG2	2.25	0.49
11:5:196:ASN:OD1	11:5:197:PHE:N	2.43	0.49
11:5:172:LEU:HD23	11:5:254:GLN:HA	1.94	0.49
1:A:15:ARG:HH22	11:5:670:PRO:HD3	1.76	0.49
12:6:112:ARG:NH2	12:6:180:PHE:HA	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:405:PRO:HA	12:6:450:TYR:HA	1.95	0.49
12:6:555:VAL:HG23	12:6:557:LYS:H	1.78	0.49
13:7:470:LEU:HB3	13:7:522:CYS:CB	2.42	0.49
13:7:77:SER:HB3	13:7:338:THR:HB	1.95	0.49
1:A:39:ASN:N	1:A:42:LYS:HZ3	2.10	0.49
2:B:18:PHE:CZ	4:D:135:ARG:HG2	2.48	0.49
2:B:25:ILE:O	2:B:71:VAL:N	2.33	0.49
3:C:177:TYR:CE2	3:C:181:HIS:HB2	2.48	0.49
3:C:16:PHE:O	3:C:45:SER:HA	2.13	0.49
3:C:88:ILE:O	3:C:92:PRO:HD3	2.13	0.49
4:D:189:ILE:O	4:D:193:LEU:N	2.46	0.49
5:E:308:ASN:HB3	5:E:310:VAL:N	2.28	0.49
5:E:326:LEU:HD21	5:E:329:LEU:HA	1.95	0.49
5:E:48:LEU:C	5:E:48:LEU:HD23	2.33	0.49
5:E:641:LEU:O	5:E:645:THR:HG23	2.12	0.49
5:E:641:LEU:O	5:E:645:THR:N	2.32	0.49
8:2:229:ALA:CA	8:2:232:ARG:HG2	2.40	0.48
8:2:323:VAL:HG21	8:2:394:PRO:CD	2.43	0.48
8:2:410:LEU:C	8:2:415:VAL:HG22	2.33	0.48
8:2:653:ASN:HB2	8:2:658:ASN:HD21	1.77	0.48
14:2:901:ATP:O2B	12:6:798:ARG:NH2	2.46	0.48
9:3:122:ILE:N	9:3:123:PRO:HD2	2.28	0.48
9:3:25:VAL:HG13	9:3:128:ALA:HB2	1.95	0.48
9:3:685:ASP:HA	9:3:688:ASN:HB2	1.95	0.48
10:4:351:VAL:C	10:4:353:ASP:HA	2.33	0.48
10:4:336:THR:OG1	10:4:396:VAL:O	2.27	0.48
10:4:635:ASP:OD1	10:4:694:LEU:HD22	2.13	0.48
11:5:177:THR:HG23	11:5:251:ILE:CG2	2.43	0.48
11:5:433:SER:HB3	11:5:436:ALA:HB2	1.95	0.48
11:5:494:HIS:HA	11:5:549:ARG:HD3	1.95	0.48
11:5:577:THR:HA	11:5:579:ASN:N	2.28	0.48
12:6:653:HIS:CB	12:6:705:ILE:HG22	2.38	0.48
12:6:711:LEU:HB3	12:6:713:PHE:HE1	1.75	0.48
12:6:569:ILE:CD1	12:6:805:ARG:HD2	2.43	0.48
13:7:128:PRO:CB	13:7:129:THR:HA	2.43	0.48
13:7:435:LEU:HD11	13:7:562:SER:HB3	1.95	0.48
13:7:459:MET:HB2	13:7:597:LEU:HD11	1.95	0.48
13:7:624:LYS:O	13:7:624:LYS:HG3	2.13	0.48
13:7:81:ASP:HB3	13:7:205:LYS:CG	2.42	0.48
1:A:102:TRP:HB3	4:D:145:ARG:NH2	2.25	0.48
1:A:100:MET:SD	1:A:117:GLN:HG2	2.52	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:29:PRO:HA	2:B:85:CYS:HA	1.94	0.48
2:B:90:PRO:HB3	2:B:92:TRP:CE2	2.48	0.48
3:C:184:TYR:HA	3:C:187:THR:HB	1.95	0.48
3:C:82:THR:HA	3:C:85:MET:SD	2.52	0.48
1:A:141:LEU:HD11	4:D:182:TYR:HB2	1.95	0.48
5:E:264:GLU:N	5:E:264:GLU:OE1	2.41	0.48
5:E:291:LEU:CD2	5:E:294:LEU:HD12	2.43	0.48
5:E:364:ALA:HB1	8:2:283:TYR:CD1	2.48	0.48
8:2:308:GLU:O	8:2:309:LEU:HG	2.13	0.48
8:2:544:ASP:O	8:2:549:LYS:HE2	2.13	0.48
8:2:678:ASP:OD1	8:2:679:ILE:HG13	2.12	0.48
8:2:774:ILE:CG2	8:2:822:LYS:HB3	2.44	0.48
8:2:803:PHE:N	8:2:804:PRO:CA	2.75	0.48
9:3:221:LEU:O	9:3:299:LYS:NZ	2.24	0.48
9:3:32:LEU:CD1	9:3:38:TYR:HB2	2.40	0.48
9:3:407:MET:O	9:3:515:ALA:HA	2.13	0.48
9:3:732:LEU:O	9:3:736:ALA:N	2.46	0.48
9:3:38:TYR:CE2	9:3:98:ILE:HG12	2.47	0.48
10:4:564:ILE:CD1	10:4:703:ASP:HB3	2.43	0.48
10:4:655:SER:CB	10:4:664:THR:HG22	2.43	0.48
11:5:454:GLN:CB	11:5:465:GLU:HB2	2.43	0.48
9:3:416:SER:HB3	11:5:499:GLN:HE21	1.77	0.48
11:5:543:GLN:HG3	11:5:546:ILE:HD12	1.95	0.48
11:5:56:VAL:HG11	11:5:58:ASN:HB2	1.95	0.48
11:5:76:TYR:O	11:5:80:SER:N	2.42	0.48
12:6:304:LEU:N	12:6:304:LEU:HD12	2.28	0.48
12:6:723:ILE:O	12:6:727:LEU:N	2.26	0.48
12:6:796:THR:HB	12:6:799:GLN:CG	2.40	0.48
13:7:144:ASN:O	13:7:148:LEU:N	2.45	0.48
13:7:258:ILE:HD11	13:7:278:PHE:CE1	2.48	0.48
13:7:257:VAL:HG12	13:7:272:GLU:HA	1.94	0.48
13:7:502:VAL:HG12	13:7:503:THR:N	2.28	0.48
1:A:37:ILE:O	1:A:41:LEU:N	2.37	0.48
2:B:175:LEU:CA	2:B:178:ILE:HD12	2.43	0.48
2:B:52:LEU:HD12	2:B:53:ILE:N	2.28	0.48
2:B:72:VAL:HG13	2:B:75:ILE:HG12	1.95	0.48
5:E:125:ALA:HB2	5:E:251:ILE:HG23	1.95	0.48
5:E:308:ASN:CA	5:E:309:SER:HB2	2.34	0.48
5:E:540:ARG:NH2	5:E:574:GLU:HB2	2.27	0.48
5:E:608:ALA:HA	5:E:611:GLN:CG	2.43	0.48
8:2:234:LEU:HD22	8:2:239:SER:OG	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:423:GLU:N	8:2:423:GLU:OE1	2.41	0.48
8:2:543:GLY:N	8:2:652:PRO:HD3	2.27	0.48
9:3:409:GLY:N	9:3:415:LYS:HZ1	2.11	0.48
9:3:533:ILE:HG12	9:3:540:LEU:HD21	1.95	0.48
10:4:183:THR:CG2	10:4:185:VAL:HB	2.41	0.48
11:5:413:LEU:HD11	11:5:550:PHE:CD2	2.48	0.48
11:5:453:VAL:HG21	11:5:506:LYS:CB	2.39	0.48
12:6:359:VAL:HG21	12:6:381:LEU:HD21	1.93	0.48
12:6:574:VAL:HA	12:6:581:LYS:NZ	2.24	0.48
12:6:531:ARG:HG3	12:6:745:PRO:CG	2.43	0.48
13:7:273:VAL:HG22	13:7:278:PHE:CB	2.43	0.48
13:7:81:ASP:HB3	13:7:205:LYS:HG3	1.95	0.48
1:A:175:GLN:CB	1:A:181:PHE:H	2.26	0.48
3:C:24:ILE:CG1	3:C:38:ILE:HB	2.44	0.48
3:C:82:THR:O	3:C:85:MET:HG2	2.13	0.48
3:C:83:LYS:HA	3:C:86:ASN:ND2	2.27	0.48
4:D:159:ARG:HG2	4:D:163:GLU:HG2	1.95	0.48
4:D:172:THR:HA	4:D:175:LEU:O	2.14	0.48
4:D:177:LYS:O	4:D:181:LYS:HG3	2.13	0.48
4:D:258:VAL:HG22	4:D:266:GLU:HG2	1.95	0.48
5:E:271:TRP:NE1	5:E:275:LEU:HD11	2.28	0.48
5:E:366:MET:HB3	5:E:368:ILE:HG13	1.95	0.48
5:E:370:LEU:O	5:E:374:GLN:HG2	2.13	0.48
8:2:424:VAL:HG22	8:2:425:GLU:N	2.27	0.48
8:2:455:SER:C	8:2:456:ILE:HD12	2.33	0.48
8:2:670:THR:O	8:2:673:ILE:HG22	2.12	0.48
3:C:90:THR:HG22	9:3:111:TRP:HZ2	1.79	0.48
9:3:212:ARG:HH21	13:7:5:LEU:HD12	1.78	0.48
10:4:413:HIS:ND1	13:7:250:ASP:OD2	2.46	0.48
10:4:433:ILE:HA	10:4:469:VAL:O	2.13	0.48
10:4:506:LEU:O	10:4:509:ILE:HB	2.14	0.48
10:4:566:LEU:HD13	10:4:574:LYS:HB2	1.96	0.48
10:4:833:ILE:HA	10:4:836:TYR:CD2	2.48	0.48
8:2:631:ILE:HA	11:5:442:LYS:HB3	1.94	0.48
11:5:484:LYS:N	11:5:484:LYS:HD2	2.29	0.48
12:6:184:GLY:O	12:6:188:VAL:HG23	2.13	0.48
12:6:340:ASN:CB	12:6:342:ALA:HB2	2.43	0.48
12:6:360:ARG:HG2	12:6:376:THR:HB	1.94	0.48
12:6:530:VAL:HA	12:6:533:ILE:CG1	2.44	0.48
12:6:559:THR:HG23	12:6:565:LEU:CD2	2.44	0.48
12:6:778:LYS:HG2	12:6:782:LYS:HZ2	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:800:LEU:O	12:6:804:ILE:HG13	2.12	0.48
13:7:499:LYS:NZ	13:7:504:ASP:OD1	2.41	0.48
1:A:102:TRP:NE1	2:B:3:LEU:HG	2.29	0.48
1:A:170:ASP:O	1:A:183:LEU:HB3	2.12	0.48
1:A:5:LEU:HD11	1:A:36:ILE:HD11	1.95	0.48
5:E:158:ALA:HB1	5:E:237:LEU:HD22	1.95	0.48
5:E:27:LEU:HA	5:E:80:SER:O	2.14	0.48
5:E:473:TRP:CZ3	5:E:542:PRO:HD3	2.48	0.48
5:E:622:ILE:O	5:E:622:ILE:HG22	2.14	0.48
5:E:637:LEU:CA	5:E:640:PHE:HB3	2.38	0.48
8:2:512:LYS:O	8:2:515:VAL:HB	2.14	0.48
9:3:191:LEU:HB3	9:3:456:ARG:NE	2.28	0.48
9:3:245:TYR:HE1	13:7:357:PRO:HG2	1.78	0.48
9:3:314:LEU:HA	11:5:201:THR:CA	2.25	0.48
9:3:533:ILE:HG22	9:3:535:LEU:H	1.79	0.48
10:4:341:ASP:OD1	10:4:342:MET:N	2.45	0.48
10:4:342:MET:CB	10:4:360:ILE:HG12	2.33	0.48
10:4:370:ARG:HB3	10:4:379:PRO:HA	1.95	0.48
10:4:433:ILE:HG23	10:4:467:LYS:C	2.34	0.48
11:5:294:ILE:HG13	11:5:333:ILE:HG13	1.95	0.48
8:2:676:ARG:NH2	11:5:418:PRO:HB3	2.28	0.48
11:5:545:THR:O	11:5:548:SER:OG	2.21	0.48
12:6:272:THR:O	12:6:289:SER:HB3	2.13	0.48
12:6:537:VAL:HG21	12:6:584:PHE:CD1	2.48	0.48
12:6:608:LEU:HG	12:6:628:LEU:HB3	1.95	0.48
12:6:531:ARG:CG	12:6:745:PRO:HG3	2.43	0.48
13:7:255:VAL:HB	13:7:307:PHE:CD1	2.48	0.48
9:3:195:LYS:HG3	13:7:371:LEU:H	1.79	0.48
13:7:518:ASN:H	13:7:560:ARG:HB2	1.76	0.48
13:7:580:PRO:O	13:7:581:LEU:HB3	2.13	0.48
13:7:619:VAL:HG21	13:7:625:GLN:CG	2.44	0.48
13:7:82:LEU:O	13:7:207:LEU:HD23	2.14	0.48
13:7:90:ASN:HD21	13:7:214:ARG:HE	1.61	0.48
1:A:191:VAL:HA	5:E:55:GLN:NE2	2.29	0.48
2:B:160:LEU:O	2:B:163:LEU:HG	2.13	0.48
2:B:188:ILE:HG22	2:B:192:LEU:HD13	1.95	0.48
4:D:199:LEU:HD13	4:D:202:MET:HE3	1.96	0.48
5:E:131:LEU:CD2	5:E:237:LEU:HD11	2.43	0.48
5:E:270:LEU:HD23	5:E:302:LEU:HD21	1.95	0.48
5:E:600:PRO:HB2	5:E:602:LEU:CD1	2.43	0.48
6:F:3:DC:H2''	6:F:4:DG:H5'	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:756:SER:N	8:2:757:PRO:HD2	2.28	0.48
8:2:776:PRO:HG3	8:2:822:LYS:HG3	1.94	0.48
9:3:413:THR:CG2	9:3:549:VAL:HG11	2.30	0.48
9:3:702:LEU:HA	9:3:705:LEU:HG	1.95	0.48
10:4:198:LEU:HD12	10:4:226:TYR:HB3	1.95	0.48
10:4:223:GLU:CB	10:4:228:LYS:HE3	2.41	0.48
10:4:343:LYS:NZ	10:4:392:ALA:HB3	2.28	0.48
10:4:523:ALA:HA	10:4:526:ILE:CG1	2.44	0.48
11:5:294:ILE:HG21	11:5:330:ILE:HG23	1.92	0.48
11:5:397:LYS:CG	11:5:399:ILE:HD11	2.44	0.48
9:3:417:GLN:HG3	11:5:404:MET:HE1	1.95	0.48
11:5:550:PHE:HB3	11:5:553:ILE:HD11	1.93	0.48
12:6:281:SER:O	12:6:284:ILE:HG22	2.13	0.48
12:6:292:GLY:C	12:6:394:ARG:HA	2.34	0.48
8:2:404:ARG:NH1	12:6:299:GLU:HA	2.29	0.48
10:4:340:PRO:HD3	12:6:452:ILE:HD11	1.94	0.48
12:6:767:LYS:HE3	12:6:769:ALA:HB3	1.95	0.48
13:7:265:CYS:SG	13:7:289:CYS:N	2.87	0.48
13:7:660:VAL:HG12	13:7:689:LEU:CD1	2.36	0.48
1:A:104:ASN:C	1:A:106:GLY:HA3	2.34	0.48
1:A:168:LEU:HD11	1:A:206:GLN:HG2	1.96	0.48
1:A:173:GLU:H	1:A:173:GLU:CD	2.16	0.48
2:B:157:LEU:O	2:B:157:LEU:HD23	2.13	0.48
3:C:131:ARG:NH1	3:C:173:GLU:OE2	2.46	0.48
3:C:15:GLU:HB3	3:C:45:SER:CB	2.44	0.48
4:D:227:PHE:HB3	4:D:276:VAL:HG12	1.96	0.48
5:E:608:ALA:CB	5:E:649:LEU:HD13	2.43	0.48
8:2:394:PRO:O	8:2:397:VAL:HB	2.13	0.48
8:2:544:ASP:HB2	8:2:683:VAL:CG2	2.37	0.48
9:3:314:LEU:HD23	11:5:201:THR:HA	1.95	0.48
9:3:405:ILE:HD12	9:3:405:ILE:N	2.29	0.48
9:3:428:LEU:O	9:3:469:VAL:N	2.41	0.48
9:3:403:ILE:HA	9:3:544:ASP:OD2	2.14	0.48
9:3:667:VAL:HG11	9:3:719:LYS:NZ	2.28	0.48
10:4:256:ASP:OD2	10:4:260:GLN:NE2	2.46	0.48
10:4:333:LEU:HD21	10:4:400:GLN:HB3	1.96	0.48
10:4:404:ASP:OD1	10:4:405:PHE:N	2.46	0.48
10:4:694:LEU:HG	10:4:698:LEU:HD23	1.95	0.48
10:4:685:ASN:C	10:4:838:THR:HB	2.34	0.48
11:5:444:SER:O	11:5:447:ALA:HB3	2.14	0.48
12:6:570:ASN:C	12:6:571:ILE:HD12	2.34	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:702:THR:HG23	12:6:704:PRO:HG2	1.95	0.48
12:6:711:LEU:HG	12:6:712:PHE:N	2.29	0.48
12:6:723:ILE:HD12	12:6:723:ILE:N	2.28	0.48
13:7:402:MET:CA	13:7:405:ILE:HB	2.27	0.48
13:7:648:LYS:HE2	13:7:704:LEU:HD13	1.96	0.48
13:7:698:ALA:HA	13:7:701:LYS:HD3	1.96	0.48
1:A:96:ILE:O	1:A:99:SER:OG	2.22	0.48
2:B:118:ASN:OD1	2:B:122:LEU:HD11	2.14	0.48
2:B:148:LEU:O	2:B:148:LEU:HD23	2.13	0.48
2:B:152:ARG:O	2:B:156:VAL:HG23	2.14	0.48
2:B:151:ILE:HA	2:B:154:ILE:HG12	1.94	0.48
3:C:33:ASN:HB3	3:C:34:PRO:HD3	1.96	0.48
3:C:16:PHE:C	3:C:45:SER:HA	2.33	0.48
4:D:124:LEU:HD12	4:D:124:LEU:H	1.79	0.48
4:D:190:TRP:O	4:D:193:LEU:HB3	2.14	0.48
4:D:62:ASP:HA	4:D:65:LYS:CB	2.44	0.48
4:D:123:LYS:HE2	5:E:20:SER:HB3	1.95	0.48
6:F:4:DG:H1'	7:G:16:DG:H22	1.79	0.48
8:2:555:TYR:O	8:2:559:THR:OG1	2.22	0.48
8:2:617:ARG:HA	8:2:620:ILE:CG1	2.42	0.48
9:3:132:LEU:HG	9:3:136:MET:HG2	1.96	0.48
9:3:225:ILE:CD1	9:3:225:ILE:H	2.23	0.48
9:3:690:ASP:O	9:3:694:LYS:N	2.37	0.48
10:4:621:LEU:HA	10:4:624:SER:CB	2.38	0.48
10:4:679:GLY:N	10:4:680:SER:HA	2.29	0.48
11:5:137:LEU:HD12	11:5:137:LEU:C	2.34	0.48
11:5:425:LEU:C	11:5:425:LEU:HD23	2.34	0.48
12:6:111:VAL:CG1	12:6:166:LEU:HG	2.43	0.48
12:6:357:GLN:NE2	12:6:387:GLU:H	2.12	0.48
12:6:550:GLN:HG3	12:6:571:ILE:HD13	1.94	0.48
4:D:102:SER:O	4:D:105:PHE:HB3	2.13	0.48
5:E:318:LEU:CB	5:E:411:ARG:HA	2.42	0.48
5:E:536:LEU:HA	5:E:539:TYR:HD2	1.77	0.48
5:E:537:ASP:CA	5:E:540:ARG:HG3	2.40	0.48
5:E:557:ALA:HA	5:E:560:GLU:HB3	1.95	0.48
5:E:75:ASP:CG	5:E:118:ARG:HH12	2.17	0.48
6:F:3:DC:H2'	6:F:4:DG:C8	2.48	0.48
8:2:443:GLY:HA2	8:2:444:PHE:HA	1.70	0.48
8:2:497:ILE:O	8:2:501:MET:HE2	2.14	0.48
8:2:614:ASP:O	8:2:618:THR:HG23	2.13	0.48
8:2:609:PHE:HE2	8:2:677:PHE:CZ	2.30	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:759:PRO:HG2	8:2:762:LEU:CD1	2.44	0.48
8:2:810:LEU:HD23	8:2:810:LEU:C	2.34	0.48
9:3:104:ARG:HG3	9:3:111:TRP:CZ3	2.49	0.48
9:3:374:HIS:HB2	9:3:378:LYS:HZ2	1.78	0.48
9:3:440:VAL:HG12	9:3:441:GLY:N	2.28	0.48
9:3:502:ILE:N	9:3:502:ILE:HD12	2.28	0.48
9:3:676:ILE:HG23	9:3:680:VAL:CG2	2.44	0.48
9:3:684:THR:HG21	13:7:610:GLU:HA	1.95	0.48
9:3:379:LYS:HD2	9:3:732:LEU:HD21	1.96	0.48
10:4:246:ARG:O	10:4:246:ARG:HG3	2.14	0.48
10:4:243:LEU:CD1	10:4:303:VAL:HG11	2.44	0.48
10:4:329:LYS:O	10:4:401:GLU:HB2	2.14	0.48
10:4:453:LEU:HB2	13:7:278:PHE:CE2	2.49	0.48
10:4:501:ILE:HG22	10:4:502:THR:O	2.14	0.48
10:4:520:SER:O	10:4:523:ALA:N	2.46	0.48
10:4:820:GLU:HA	10:4:823:GLN:OE1	2.14	0.48
9:3:270:LEU:CD2	11:5:464:LEU:HD22	2.40	0.48
11:5:544:THR:CB	11:5:547:LEU:HD12	2.43	0.48
5:E:311:LYS:NZ	11:5:71:TYR:O	2.31	0.48
11:5:86:ILE:HA	11:5:89:LEU:CG	2.39	0.48
12:6:548:LEU:HD12	12:6:548:LEU:N	2.29	0.48
12:6:586:LYS:CA	12:6:589:VAL:HG12	2.43	0.48
13:7:464:VAL:O	13:7:464:VAL:HG12	2.14	0.48
13:7:543:GLN:HE21	13:7:560:ARG:HA	1.79	0.48
1:A:149:ILE:HG23	1:A:151:LEU:CB	2.44	0.48
2:B:121:VAL:HG12	2:B:125:ILE:CD1	2.44	0.48
2:B:17:GLN:HA	2:B:20:VAL:CG1	2.41	0.48
5:E:345:ASN:CA	5:E:350:LEU:HG	2.31	0.48
5:E:66:GLU:OE1	5:E:69:ARG:HD3	2.14	0.48
8:2:241:SER:HB3	8:2:296:ARG:NH1	2.29	0.48
8:2:547:THR:HG22	8:2:548:ALA:N	2.29	0.48
8:2:587:LYS:HG3	8:2:588:GLU:N	2.29	0.48
8:2:760:GLN:O	8:2:764:MET:HG2	2.14	0.48
9:3:403:ILE:HD12	9:3:403:ILE:N	2.29	0.48
9:3:428:LEU:C	9:3:469:VAL:H	2.15	0.48
9:3:486:ILE:O	9:3:490:MET:N	2.46	0.48
9:3:666:ARG:HA	9:3:667:VAL:HA	1.58	0.48
9:3:681:LYS:O	9:3:685:ASP:HB2	2.14	0.48
11:5:130:ASN:HA	11:5:131:SER:HA	1.71	0.48
11:5:456:ASP:OD1	11:5:457:PRO:HD2	2.14	0.48
11:5:503:SER:C	11:5:504:ILE:HD12	2.34	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:608:LEU:C	11:5:608:LEU:HD12	2.34	0.48
12:6:126:SER:HB3	12:6:131:GLU:HG2	1.96	0.48
12:6:118:PHE:CE1	12:6:161:ARG:HB3	2.35	0.48
12:6:417:PRO:HG2	12:6:448:LEU:CD2	2.42	0.48
12:6:641:PHE:H	12:6:682:ALA:HB2	1.79	0.48
13:7:73:ARG:NH2	13:7:132:ILE:HA	2.29	0.48
13:7:237:GLN:O	13:7:354:ILE:HA	2.14	0.48
1:A:108:ASP:HB3	1:A:109:LEU:O	2.14	0.48
1:A:177:GLU:OE1	1:A:177:GLU:N	2.41	0.48
1:A:83:LYS:HA	1:A:86:LEU:HD12	1.95	0.48
4:D:123:LYS:HG3	4:D:126:LEU:HD22	1.95	0.48
4:D:174:LEU:HG	4:D:175:LEU:CD1	2.43	0.48
5:E:258:LEU:C	5:E:258:LEU:HD23	2.35	0.48
5:E:492:LEU:HG	5:E:496:ILE:CD1	2.43	0.48
8:2:580:VAL:HG21	8:2:591:LEU:CG	2.44	0.47
9:3:164:HIS:CE1	9:3:178:LYS:HD3	2.48	0.47
9:3:256:ILE:O	9:3:276:VAL:N	2.36	0.47
9:3:294:VAL:HG22	9:3:326:VAL:HG22	1.95	0.47
10:4:618:SER:CB	10:4:622:VAL:HG11	2.44	0.47
10:4:501:ILE:HD11	10:4:749:MET:HB2	1.95	0.47
11:5:50:LEU:CD2	11:5:101:ILE:HD12	2.41	0.47
11:5:207:LEU:HD13	11:5:241:TYR:O	2.14	0.47
11:5:331:LEU:O	11:5:331:LEU:HD12	2.14	0.47
11:5:33:ASN:HB3	11:5:37:GLU:HG3	1.95	0.47
11:5:388:ILE:HG22	11:5:392:LEU:HD21	1.96	0.47
11:5:414:LEU:CD1	11:5:422:LYS:HB2	2.32	0.47
11:5:426:LEU:HA	11:5:429:VAL:HG23	1.95	0.47
11:5:455:ARG:NH1	11:5:460:ARG:HB3	2.29	0.47
9:3:420:ARG:NH1	11:5:499:GLN:HB3	2.26	0.47
11:5:617:GLN:OE1	11:5:617:GLN:N	2.31	0.47
12:6:167:ALA:O	12:6:170:ILE:HB	2.14	0.47
12:6:417:PRO:HG2	12:6:448:LEU:CG	2.43	0.47
12:6:640:GLU:HG2	12:6:683:ASN:H	1.78	0.47
13:7:17:LEU:HA	13:7:20:GLU:HB3	1.95	0.47
13:7:397:VAL:O	13:7:401:VAL:HG23	2.14	0.47
13:7:636:SER:HA	13:7:639:ARG:HE	1.79	0.47
13:7:677:SER:OG	13:7:678:LYS:N	2.47	0.47
13:7:88:TYR:O	13:7:92:LYS:N	2.46	0.47
2:B:149:ARG:HH21	3:C:191:MET:HE1	1.79	0.47
5:E:129:TRP:HB3	5:E:133:ASN:HD22	1.78	0.47
5:E:285:ALA:HB1	5:E:288:TYR:CB	2.37	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:287:VAL:C	5:E:291:LEU:HG	2.34	0.47
5:E:298:GLU:OE1	5:E:301:ARG:HD3	2.15	0.47
3:C:193:LYS:HD3	5:E:487:ARG:NH1	2.29	0.47
5:E:488:LYS:HB3	5:E:491:LEU:HD21	1.95	0.47
5:E:493:ASN:HA	5:E:496:ILE:CG1	2.44	0.47
6:F:18:DT:H1'	6:F:19:DT:C4	2.49	0.47
8:2:253:LYS:HB3	8:2:255:ILE:CG1	2.41	0.47
8:2:522:GLY:HA3	8:2:818:GLU:OE2	2.15	0.47
9:3:386:MET:HE3	9:3:715:VAL:HG22	1.95	0.47
9:3:388:GLY:N	9:3:714:LYS:HZ2	2.12	0.47
10:4:189:GLU:CA	10:4:192:THR:HG23	2.43	0.47
10:4:508:LYS:O	10:4:512:VAL:HG23	2.14	0.47
10:4:722:LYS:HA	10:4:725:THR:OG1	2.14	0.47
10:4:827:ARG:HA	10:4:830:ARG:HG2	1.95	0.47
11:5:302:ASN:OD1	11:5:324:ARG:CD	2.59	0.47
11:5:59:TYR:O	11:5:136:GLN:N	2.40	0.47
12:6:144:LYS:HA	12:6:147:ASP:OD1	2.15	0.47
12:6:377:LEU:CD1	12:6:454:PHE:H	2.27	0.47
12:6:609:THR:HG22	12:6:610:ALA:N	2.29	0.47
12:6:695:LEU:HD21	12:6:699:LEU:HD21	1.96	0.47
12:6:696:ARG:HD2	12:6:706:MET:SD	2.54	0.47
12:6:720:ASN:CG	12:6:723:ILE:HD13	2.35	0.47
1:A:129:GLU:HA	1:A:132:LYS:CE	2.27	0.47
1:A:47:LEU:HD23	1:A:47:LEU:C	2.34	0.47
2:B:161:LYS:HA	3:C:133:GLN:CD	2.34	0.47
2:B:120:LEU:CD1	2:B:176:LEU:HB3	2.38	0.47
1:A:84:ARG:CZ	3:C:3:TYR:HA	2.44	0.47
3:C:77:PRO:HB2	3:C:79:MET:HG2	1.96	0.47
5:E:315:THR:HA	5:E:316:LEU:O	2.15	0.47
5:E:334:LEU:HG	5:E:338:PHE:CE2	2.49	0.47
5:E:433:GLU:CA	5:E:541:ASN:HD22	2.27	0.47
5:E:92:LEU:HD23	5:E:96:LEU:CD1	2.44	0.47
8:2:204:SER:HA	8:2:207:ILE:CD1	2.44	0.47
8:2:433:ASN:HA	8:2:434:TYR:HA	1.67	0.47
8:2:502:ALA:CB	8:2:505:ILE:HD12	2.43	0.47
9:3:262:PRO:HA	9:3:265:ALA:CB	2.44	0.47
10:4:248:LEU:HD22	10:4:254:THR:CB	2.44	0.47
10:4:566:LEU:HD23	10:4:672:LEU:CD2	2.37	0.47
10:4:622:VAL:O	10:4:625:ASP:HB3	2.13	0.47
10:4:642:ARG:HA	10:4:645:LEU:HB2	1.97	0.47
10:4:603:ALA:HB3	10:4:658:LYS:NZ	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:802:ILE:HD13	12:6:735:HIS:CB	2.43	0.47
10:4:819:LEU:HD23	10:4:819:LEU:O	2.14	0.47
10:4:826:VAL:O	10:4:829:ILE:HB	2.14	0.47
11:5:373:SER:HB3	11:5:594:ILE:CD1	2.41	0.47
11:5:440:SER:O	11:5:481:GLU:HB2	2.13	0.47
12:6:452:ILE:H	12:6:452:ILE:HD12	1.79	0.47
12:6:379:VAL:HG23	12:6:454:PHE:O	2.14	0.47
12:6:608:LEU:HG	12:6:628:LEU:H	1.79	0.47
12:6:656:MET:CE	12:6:656:MET:HA	2.44	0.47
12:6:741:ALA:O	12:6:743:GLU:HG3	2.14	0.47
12:6:769:ALA:O	12:6:772:TYR:HB3	2.14	0.47
13:7:68:GLN:HG3	13:7:129:THR:HG21	1.96	0.47
13:7:142:ILE:HG22	13:7:146:ARG:NE	2.30	0.47
13:7:13:ASP:O	13:7:17:LEU:HD13	2.13	0.47
13:7:357:PRO:HB3	13:7:374:THR:HB	1.96	0.47
9:3:235:ASP:HB2	13:7:5:LEU:CD1	2.45	0.47
1:A:157:PRO:HB2	2:B:14:GLU:OE2	2.14	0.47
2:B:13:PRO:HA	2:B:16:ILE:HG12	1.97	0.47
3:C:105:PHE:CZ	3:C:127:LEU:HD22	2.46	0.47
4:D:268:GLU:N	4:D:268:GLU:OE1	2.48	0.47
5:E:127:ARG:N	5:E:246:THR:O	2.37	0.47
8:2:334:LEU:HD21	11:5:322:ALA:HB3	1.95	0.47
8:2:586:THR:HA	8:2:587:LYS:C	2.34	0.47
9:3:185:ILE:O	9:3:258:VAL:HG13	2.14	0.47
9:3:217:ALA:HB1	9:3:301:LEU:HD13	1.97	0.47
9:3:447:THR:HG21	9:3:455:ARG:HE	1.78	0.47
9:3:563:GLU:HA	9:3:566:LEU:HB2	1.95	0.47
10:4:223:GLU:HB3	10:4:228:LYS:NZ	2.29	0.47
10:4:232:GLU:O	10:4:236:LEU:HD13	2.15	0.47
10:4:237:GLY:CA	10:4:299:LYS:HE2	2.44	0.47
10:4:616:LEU:O	12:6:362:GLN:NE2	2.45	0.47
10:4:654:ILE:O	10:4:665:LEU:N	2.35	0.47
10:4:729:LEU:HB3	10:4:730:GLU:CA	2.42	0.47
10:4:761:ILE:O	10:4:816:VAL:HA	2.14	0.47
11:5:166:ILE:HG23	11:5:257:LYS:O	2.14	0.47
11:5:354:GLU:HG2	11:5:605:TYR:CE1	2.29	0.47
11:5:649:THR:H	11:5:652:GLN:HG3	1.79	0.47
12:6:276:ILE:HA	12:6:279:ILE:CD1	2.45	0.47
12:6:722:LYS:O	12:6:726:GLU:HG3	2.13	0.47
13:7:418:ILE:HG21	13:7:432:LEU:HD12	1.96	0.47
13:7:551:ALA:HB3	13:7:553:ILE:HD12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:184:PHE:HD2	2:B:185:ILE:HG13	1.78	0.47
3:C:119:GLU:O	3:C:123:VAL:HG23	2.14	0.47
4:D:157:TYR:HB2	4:D:219:ILE:O	2.14	0.47
5:E:336:ASP:HA	5:E:339:TYR:CB	2.44	0.47
5:E:43:LYS:HB2	5:E:484:LEU:CD2	2.42	0.47
5:E:549:GLY:O	5:E:553:ILE:N	2.36	0.47
8:2:241:SER:OG	8:2:296:ARG:NH2	2.48	0.47
8:2:496:LYS:CA	8:2:499:SER:HB3	2.34	0.47
9:3:42:VAL:HG13	9:3:153:TRP:HZ3	1.80	0.47
9:3:254:GLN:CG	9:3:278:LEU:HD12	2.44	0.47
9:3:563:GLU:HA	9:3:566:LEU:CG	2.44	0.47
10:4:265:PRO:HG2	10:4:438:THR:HG21	1.96	0.47
10:4:423:LEU:HD13	10:4:463:VAL:O	2.14	0.47
11:5:253:GLN:HG2	11:5:255:PHE:CD2	2.49	0.47
11:5:487:ASP:C	11:5:490:ARG:HB3	2.34	0.47
11:5:624:SER:O	11:5:628:THR:HG23	2.14	0.47
12:6:276:ILE:HD12	12:6:277:ARG:N	2.29	0.47
12:6:304:LEU:C	12:6:306:LYS:H	2.17	0.47
12:6:397:PHE:HD1	12:6:459:VAL:HG22	1.79	0.47
12:6:571:ILE:O	12:6:679:LEU:HA	2.14	0.47
6:F:24:DT:H5"	12:6:665:LYS:HB3	1.95	0.47
12:6:736:MET:HB3	12:6:738:ARG:O	2.13	0.47
12:6:695:LEU:CD1	12:6:838:VAL:HG22	2.33	0.47
13:7:28:PHE:HB3	13:7:61:PRO:CB	2.44	0.47
13:7:311:GLN:CB	13:7:340:VAL:HG23	2.44	0.47
13:7:359:PRO:HA	13:7:360:TYR:HA	1.74	0.47
13:7:383:GLN:HB2	13:7:386:LYS:HE2	1.97	0.47
1:A:29:LEU:HD23	1:A:93:ARG:CD	2.45	0.47
3:C:5:ASP:HB3	3:C:8:ASP:OD2	2.15	0.47
3:C:96:ASP:OD1	3:C:98:HIS:HB3	2.14	0.47
4:D:232:VAL:HG21	4:D:269:LEU:HD12	1.97	0.47
5:E:140:ILE:HB	5:E:141:GLN:C	2.35	0.47
5:E:530:LEU:O	5:E:571:SER:HA	2.13	0.47
5:E:605:PHE:CZ	5:E:650:LEU:HD21	2.48	0.47
8:2:242:LEU:CD2	8:2:295:VAL:HG12	2.45	0.47
8:2:325:THR:HB	8:2:389:THR:O	2.14	0.47
8:2:776:PRO:HD3	8:2:822:LYS:CG	2.43	0.47
8:2:778:LEU:HD13	8:2:783:MET:CG	2.40	0.47
8:2:820:PHE:CE2	8:2:836:ARG:HB2	2.49	0.47
9:3:129:LEU:C	9:3:129:LEU:HD23	2.35	0.47
9:3:183:GLU:CB	9:3:293:ASN:HA	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:373:GLY:O	9:3:378:LYS:NZ	2.30	0.47
9:3:382:LEU:HA	9:3:385:LEU:CG	2.44	0.47
9:3:683:TYR:HA	9:3:686:LEU:CG	2.45	0.47
9:3:42:VAL:HG22	9:3:96:ILE:HD13	1.95	0.47
10:4:201:PHE:O	10:4:202:LYS:HB2	2.15	0.47
10:4:564:ILE:HG13	10:4:704:LEU:N	2.29	0.47
10:4:639:ASP:O	12:6:601:LYS:NZ	2.47	0.47
11:5:176:ALA:HB2	11:5:250:PHE:CD1	2.49	0.47
12:6:123:SER:HB2	12:6:136:TYR:CE2	2.50	0.47
12:6:142:PHE:O	12:6:145:ILE:HB	2.15	0.47
12:6:189:VAL:HG21	12:6:263:PHE:HE2	1.75	0.47
12:6:287:LEU:HD21	12:6:398:THR:HG23	1.95	0.47
13:7:76:ASN:O	13:7:200:TYR:HB2	2.14	0.47
13:7:355:PHE:CD1	13:7:376:LEU:HB2	2.49	0.47
13:7:87:GLN:OE1	13:7:214:ARG:NH1	2.47	0.47
13:7:88:TYR:HA	13:7:91:GLU:HB3	1.95	0.47
1:A:25:GLN:HG2	1:A:25:GLN:O	2.15	0.47
1:A:32:TYR:HB3	1:A:124:SER:HB3	1.95	0.47
2:B:121:VAL:HA	3:C:190:TRP:HH2	1.79	0.47
4:D:267:VAL:CB	4:D:268:GLU:CA	2.91	0.47
4:D:97:LEU:HD23	4:D:97:LEU:C	2.35	0.47
5:E:150:ASP:HB3	5:E:152:LEU:CB	2.44	0.47
5:E:387:GLU:O	5:E:391:ILE:HG13	2.14	0.47
8:2:327:ARG:HD2	8:2:386:GLN:NE2	2.30	0.47
8:2:386:GLN:CB	8:2:415:VAL:HG13	2.42	0.47
8:2:546:GLY:HA2	12:6:798:ARG:CZ	2.44	0.47
8:2:680:LEU:N	8:2:680:LEU:HD12	2.29	0.47
8:2:758:ILE:HD12	8:2:758:ILE:H	1.80	0.47
9:3:218:THR:HG21	9:3:277:ILE:HD11	1.95	0.47
9:3:320:LEU:HD12	9:3:320:LEU:C	2.35	0.47
10:4:236:LEU:N	10:4:236:LEU:HD12	2.30	0.47
10:4:241:LEU:O	10:4:304:ARG:N	2.46	0.47
10:4:499:ARG:NH2	10:4:749:MET:HA	2.29	0.47
10:4:686:LEU:HD12	10:4:687:PRO:HD2	1.97	0.47
10:4:696:PRO:HG2	10:4:697:PRO:HD3	1.96	0.47
11:5:253:GLN:HG3	11:5:278:CYS:O	2.14	0.47
11:5:302:ASN:CG	11:5:324:ARG:NH1	2.68	0.47
11:5:356:GLU:O	11:5:360:LEU:HG	2.15	0.47
12:6:185:LEU:C	12:6:185:LEU:HD23	2.34	0.47
8:2:574:VAL:CA	12:6:664:ALA:HB3	2.43	0.47
13:7:404:LEU:HD13	13:7:414:LEU:HD21	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:412:ASN:HA	13:7:415:ALA:HB3	1.96	0.47
13:7:610:GLU:O	13:7:614:GLU:HG3	2.15	0.47
2:B:200:LEU:O	2:B:200:LEU:HD23	2.14	0.47
2:B:80:LYS:CE	2:B:130:ALA:HA	2.45	0.47
2:B:87:ILE:HD12	2:B:88:VAL:H	1.80	0.47
3:C:95:LEU:HD23	3:C:96:ASP:C	2.34	0.47
4:D:249:ASN:HB3	4:D:257:THR:CG2	2.45	0.47
4:D:259:THR:HG22	4:D:269:LEU:HD23	1.96	0.47
2:B:197:THR:HG22	4:D:263:LEU:HD22	1.95	0.47
2:B:169:GLN:HA	4:D:275:TYR:CD1	2.50	0.47
5:E:150:ASP:HB3	5:E:151:THR:C	2.35	0.47
5:E:252:SER:HA	5:E:255:ILE:HD12	1.97	0.47
5:E:553:ILE:HD11	5:E:586:PRO:HA	1.96	0.47
5:E:607:MET:O	5:E:611:GLN:HG2	2.14	0.47
6:F:19:DT:H2"	6:F:20:DT:C5	2.50	0.47
8:2:523:VAL:N	8:2:818:GLU:OE1	2.48	0.47
8:2:540:LEU:HD12	8:2:541:LEU:H	1.80	0.47
8:2:581:ARG:HG2	8:2:633:LYS:C	2.35	0.47
8:2:826:SER:O	8:2:827:GLU:HB3	2.15	0.47
8:2:660:THR:O	8:2:850:LYS:HG3	2.15	0.47
9:3:253:HIS:HA	9:3:279:ASP:OD1	2.15	0.47
9:3:553:ILE:HD12	9:3:553:ILE:C	2.35	0.47
9:3:98:ILE:HD12	9:3:155:LEU:CD1	2.36	0.47
10:4:203:TYR:HD1	10:4:206:ARG:HB2	1.79	0.47
10:4:185:VAL:HG21	10:4:260:GLN:HB3	1.95	0.47
10:4:436:THR:N	10:4:465:HIS:O	2.42	0.47
11:5:181:ILE:HA	11:5:242:ILE:O	2.15	0.47
11:5:148:LEU:CD1	11:5:274:LEU:HD12	2.36	0.47
11:5:63:VAL:HG13	11:5:68:LEU:HD21	1.95	0.47
12:6:116:GLU:O	12:6:119:LEU:HG	2.15	0.47
12:6:568:ASP:O	12:6:569:ILE:HB	2.14	0.47
12:6:603:SER:HB2	12:6:604:SER:O	2.15	0.47
12:6:638:ILE:HD12	12:6:638:ILE:N	2.30	0.47
12:6:752:ARG:HA	12:6:755:ILE:CG1	2.45	0.47
12:6:783:ASP:OD1	12:6:783:ASP:N	2.45	0.47
13:7:127:LEU:HG	13:7:128:PRO:CD	2.34	0.47
13:7:208:SER:CB	13:7:209:GLN:CA	2.89	0.47
1:A:173:GLU:CB	1:A:183:LEU:HD23	2.45	0.47
2:B:26:LYS:HA	2:B:70:GLU:HA	1.97	0.47
3:C:95:LEU:HD23	3:C:96:ASP:N	2.29	0.47
5:E:154:GLU:OE1	5:E:240:TYR:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:315:THR:HB	5:E:317:THR:CG2	2.44	0.47
5:E:366:MET:CB	5:E:368:ILE:HG13	2.45	0.47
5:E:477:PHE:O	5:E:480:SER:HB3	2.14	0.47
5:E:572:ILE:HG12	5:E:577:ASP:HA	1.96	0.47
5:E:60:PRO:HD3	5:E:478:TRP:CZ2	2.42	0.47
8:2:204:SER:O	8:2:207:ILE:HB	2.15	0.47
8:2:231:ILE:HG21	8:2:282:HIS:CB	2.45	0.47
8:2:584:PRO:CB	11:5:457:PRO:HB3	2.45	0.47
8:2:600:ASP:C	8:2:602:GLY:H	2.18	0.47
8:2:611:LYS:CG	12:6:650:VAL:HG22	2.45	0.47
8:2:568:GLY:O	8:2:612:MET:HG2	2.14	0.47
8:2:541:LEU:HB3	8:2:649:ALA:CA	2.45	0.47
8:2:624:MET:CE	8:2:676:ARG:HB2	2.45	0.47
8:2:674:LEU:HA	8:2:677:PHE:CD2	2.49	0.47
9:3:180:VAL:O	9:3:295:VAL:HA	2.14	0.47
9:3:258:VAL:N	9:3:274:ILE:O	2.47	0.47
9:3:430:ILE:HG22	9:3:431:ALA:O	2.15	0.47
9:3:553:ILE:HD12	9:3:553:ILE:O	2.15	0.47
10:4:309:GLY:O	10:4:327:ASN:ND2	2.48	0.47
10:4:344:VAL:HA	10:4:360:ILE:H	1.79	0.47
10:4:806:GLU:HA	10:4:809:ALA:CB	2.44	0.47
10:4:827:ARG:HA	10:4:830:ARG:CB	2.45	0.47
11:5:294:ILE:N	11:5:294:ILE:HD12	2.29	0.47
11:5:525:PRO:CA	11:5:539:ASN:HD21	2.27	0.47
11:5:86:ILE:HG22	11:5:86:ILE:O	2.15	0.47
8:2:446:VAL:HG13	12:6:302:PRO:O	2.15	0.47
12:6:309:PHE:HA	12:6:345:THR:O	2.15	0.47
12:6:776:LYS:O	12:6:780:LEU:HB2	2.14	0.47
13:7:335:VAL:HG13	13:7:339:LEU:HD23	1.96	0.47
13:7:443:ARG:CG	13:7:449:LYS:HE3	2.36	0.47
4:D:174:LEU:C	4:D:175:LEU:HD12	2.35	0.47
4:D:232:VAL:O	4:D:271:ILE:HA	2.14	0.47
2:B:11:PHE:CE1	4:D:71:ARG:HB2	2.50	0.47
5:E:162:LEU:HD13	5:E:162:LEU:O	2.15	0.47
5:E:343:TYR:CZ	5:E:347:LYS:HE3	2.50	0.47
5:E:539:TYR:HD1	5:E:544:THR:HG21	1.79	0.47
5:E:580:LEU:CG	5:E:629:ILE:HD11	2.45	0.47
5:E:619:LYS:HD2	5:E:633:ARG:HG3	1.97	0.47
5:E:577:ASP:HB3	5:E:634:ARG:H	1.79	0.47
5:E:97:GLU:CA	5:E:98:ILE:HB	2.45	0.47
6:F:18:DT:H2"	6:F:19:DT:C7	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:24:DT:H2"	6:F:25:DT:H71	1.96	0.47
8:2:235:GLY:HA2	8:2:283:TYR:CZ	2.50	0.47
8:2:409:ILE:HD11	8:2:450:ILE:CG2	2.37	0.47
8:2:500:SER:HB2	8:2:763:LEU:CD2	2.45	0.47
8:2:572:SER:HA	12:6:662:SER:O	2.15	0.47
9:3:488:GLU:OE2	9:3:492:GLN:HG2	2.15	0.47
9:3:390:GLU:HG2	9:3:509:ARG:HH22	1.79	0.47
9:3:384:MET:SD	9:3:513:ILE:HD11	2.55	0.47
10:4:505:ASP:HB2	10:4:746:PHE:CE1	2.46	0.47
10:4:638:SER:O	10:4:641:THR:HB	2.15	0.47
10:4:695:PRO:HB2	10:4:697:PRO:HG2	1.97	0.47
10:4:748:THR:HA	10:4:751:ILE:CG1	2.45	0.47
10:4:854:LYS:O	10:4:857:ILE:HG12	2.14	0.47
11:5:59:TYR:HA	11:5:135:PHE:CD1	2.50	0.47
11:5:184:ARG:N	11:5:240:PRO:O	2.42	0.47
11:5:267:VAL:HG12	11:5:268:GLY:H	1.80	0.47
11:5:407:ARG:CD	11:5:498:GLU:HA	2.45	0.47
9:3:477:LYS:HG3	11:5:491:VAL:HG13	1.96	0.47
11:5:514:ASN:HB3	11:5:516:ARG:HH12	1.80	0.47
12:6:178:LEU:O	12:6:181:LEU:HD13	2.14	0.47
12:6:265:ILE:HD12	12:6:265:ILE:N	2.30	0.47
12:6:273:VAL:HG13	12:6:290:ILE:HA	1.96	0.47
12:6:403:VAL:CG1	12:6:404:VAL:N	2.78	0.47
12:6:616:GLU:CB	12:6:617:GLU:CA	2.93	0.47
12:6:732:VAL:O	12:6:736:MET:HG2	2.15	0.47
13:7:113:PHE:O	13:7:117:PHE:HB3	2.15	0.47
13:7:128:PRO:CB	13:7:129:THR:CA	2.93	0.47
9:3:194:PRO:HG2	13:7:373:GLU:N	2.30	0.47
13:7:404:LEU:HA	13:7:407:SER:HB2	1.95	0.47
13:7:641:TYR:OH	13:7:702:LEU:O	2.31	0.47
1:A:62:MET:HE2	1:A:62:MET:HA	1.96	0.47
3:C:27:LEU:CD1	3:C:38:ILE:HG12	2.44	0.47
4:D:257:THR:H	4:D:269:LEU:HB2	1.80	0.47
4:D:271:ILE:HD12	4:D:272:GLY:N	2.30	0.47
8:2:242:LEU:CD2	8:2:244:VAL:HG23	2.45	0.47
8:2:632:SER:HB2	11:5:442:LYS:O	2.15	0.47
8:2:541:LEU:HB3	8:2:649:ALA:HB2	1.97	0.47
9:3:33:ASP:HA	9:3:39:ARG:HH11	1.80	0.47
9:3:42:VAL:HG22	9:3:96:ILE:CD1	2.44	0.47
9:3:472:ILE:HG22	9:3:475:PHE:HB2	1.96	0.47
9:3:472:ILE:CG2	9:3:475:PHE:HB2	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:558:ASP:HA	9:3:561:ILE:HB	1.96	0.47
10:4:179:ILE:HD11	10:4:184:ASN:HA	1.97	0.47
10:4:502:THR:O	10:4:506:LEU:HG	2.15	0.47
11:5:243:ILE:HG21	11:5:245:HIS:CE1	2.50	0.47
11:5:148:LEU:CB	11:5:260:GLU:HB3	2.42	0.47
11:5:375:ALA:CB	11:5:385:LYS:HE3	2.45	0.47
11:5:399:ILE:HG22	11:5:399:ILE:O	2.15	0.47
11:5:553:ILE:N	11:5:553:ILE:HD12	2.30	0.47
12:6:530:VAL:HA	12:6:533:ILE:HD11	1.96	0.47
12:6:585:LEU:HD13	12:6:597:TYR:CE1	2.50	0.47
12:6:543:VAL:CG2	12:6:715:ILE:HD11	2.44	0.47
12:6:803:MET:HE2	12:6:831:LEU:HD12	1.96	0.47
13:7:120:ALA:O	13:7:124:ASN:ND2	2.48	0.47
13:7:355:PHE:HD1	13:7:376:LEU:HB2	1.80	0.47
1:A:147:VAL:HG11	1:A:149:ILE:CG1	2.41	0.47
1:A:173:GLU:HB3	1:A:182:ASN:HA	1.97	0.47
1:A:20:TYR:CE1	1:A:25:GLN:HG3	2.50	0.47
1:A:31:MET:HE2	1:A:33:HIS:HA	1.95	0.47
2:B:11:PHE:HB2	2:B:179:ASN:ND2	2.30	0.47
2:B:26:LYS:O	2:B:87:ILE:HD12	2.15	0.47
3:C:187:THR:O	3:C:191:MET:HG2	2.15	0.47
5:E:127:ARG:CG	5:E:248:VAL:HG23	2.45	0.47
5:E:130:ASN:OD1	5:E:131:LEU:N	2.48	0.47
5:E:226:ARG:O	5:E:230:ILE:N	2.45	0.47
5:E:232:GLU:O	5:E:236:VAL:HG23	2.15	0.47
8:2:319:ARG:NE	8:2:427:THR:HG22	2.26	0.46
8:2:502:ALA:CB	8:2:512:LYS:HE2	2.29	0.46
8:2:549:LYS:HG3	8:2:550:SER:N	2.30	0.46
8:2:612:MET:HE2	8:2:620:ILE:HD11	1.95	0.46
8:2:629:ILE:N	8:2:640:LEU:O	2.48	0.46
9:3:164:HIS:HE2	9:3:178:LYS:HB3	1.79	0.46
9:3:351:ASN:O	9:3:355:LYS:HD3	2.16	0.46
9:3:653:ILE:O	9:3:656:LEU:HB3	2.14	0.46
10:4:281:VAL:HG22	10:4:297:GLU:CB	2.45	0.46
11:5:409:ASP:N	11:5:518:SER:HB3	2.28	0.46
11:5:451:ALA:CA	11:5:467:GLY:HA3	2.44	0.46
11:5:564:ARG:O	11:5:567:SER:OG	2.30	0.46
8:2:777:LYS:CB	11:5:577:THR:HG21	2.45	0.46
11:5:625:ASN:ND2	11:5:681:ILE:HG12	2.30	0.46
11:5:625:ASN:HD22	11:5:681:ILE:HG12	1.80	0.46
12:6:115:PHE:CA	12:6:118:PHE:HB3	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:289:SER:C	12:6:290:ILE:HD12	2.36	0.46
12:6:551:MET:HE1	12:6:591:PHE:CE2	2.39	0.46
12:6:565:LEU:O	12:6:565:LEU:HD12	2.15	0.46
13:7:154:LEU:HA	13:7:157:ARG:HB3	1.97	0.46
9:3:195:LYS:NZ	13:7:371:LEU:HB2	2.30	0.46
13:7:619:VAL:HG22	13:7:622:HIS:O	2.15	0.46
1:A:182:ASN:HB3	5:E:74:LEU:CD1	2.19	0.46
1:A:196:VAL:O	1:A:200:ILE:HG22	2.15	0.46
3:C:80:PHE:HE2	3:C:111:TRP:CG	2.33	0.46
3:C:138:HIS:HB3	3:C:177:TYR:HE1	1.80	0.46
3:C:82:THR:CA	3:C:85:MET:HG2	2.43	0.46
3:C:97:LEU:HD12	3:C:173:GLU:OE1	2.15	0.46
4:D:79:TYR:CD1	4:D:176:SER:HB2	2.50	0.46
4:D:236:PRO:HB2	4:D:238:GLY:O	2.15	0.46
4:D:258:VAL:HA	4:D:259:THR:HG1	1.78	0.46
4:D:262:ASP:OD1	4:D:263:LEU:N	2.48	0.46
4:D:69:ASN:OD1	4:D:293:LEU:HD13	2.14	0.46
5:E:289:ASN:HA	5:E:292:TYR:CD2	2.50	0.46
5:E:363:PHE:O	5:E:367:GLY:N	2.48	0.46
5:E:369:PRO:HG3	8:2:289:ILE:CD1	2.44	0.46
5:E:608:ALA:O	5:E:611:GLN:HB2	2.14	0.46
8:2:410:LEU:O	8:2:411:LEU:HD12	2.15	0.46
8:2:636:ILE:O	11:5:447:ALA:HA	2.14	0.46
8:2:843:ASP:HA	8:2:846:VAL:CB	2.41	0.46
8:2:846:VAL:O	8:2:853:VAL:HG21	2.15	0.46
9:3:245:TYR:CE1	13:7:357:PRO:HG2	2.50	0.46
9:3:189:THR:HA	9:3:256:ILE:CG2	2.44	0.46
9:3:495:VAL:HB	9:3:506:LEU:CD1	2.44	0.46
9:3:559:ARG:HH21	11:5:627:VAL:HG21	1.80	0.46
9:3:712:HIS:ND1	9:3:725:ASP:OD1	2.48	0.46
10:4:665:LEU:HD12	10:4:665:LEU:O	2.15	0.46
11:5:32:LYS:CA	11:5:35:ILE:HD12	2.39	0.46
11:5:487:ASP:HA	11:5:490:ARG:CB	2.40	0.46
11:5:50:LEU:HD23	11:5:54:ILE:HD11	1.97	0.46
11:5:46:TYR:HH	11:5:64:ASN:H	1.54	0.46
11:5:91:GLU:HB3	11:5:134:THR:CG2	2.45	0.46
12:6:379:VAL:CG2	12:6:456:ALA:HB2	2.45	0.46
12:6:560:VAL:C	12:6:562:GLY:HA3	2.35	0.46
13:7:142:ILE:CG2	13:7:146:ARG:HE	2.28	0.46
9:3:194:PRO:HG2	13:7:373:GLU:H	1.81	0.46
13:7:415:ALA:HA	13:7:418:ILE:HD12	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:535:THR:O	13:7:538:HIS:HB3	2.15	0.46
9:3:680:VAL:HG21	13:7:617:THR:HG21	1.97	0.46
13:7:697:GLN:O	13:7:701:LYS:HG3	2.15	0.46
9:3:211:TYR:CE1	13:7:8:ILE:HD12	2.50	0.46
13:7:93:PHE:HD2	13:7:94:LEU:HD23	1.80	0.46
2:B:175:LEU:O	2:B:179:ASN:N	2.48	0.46
2:B:187:GLU:CD	3:C:176:ILE:HG22	2.35	0.46
3:C:54:LEU:O	3:C:71:PHE:HB2	2.15	0.46
4:D:250:GLU:CG	4:D:256:TYR:HD2	2.22	0.46
5:E:285:ALA:CB	5:E:286:GLN:CA	2.90	0.46
5:E:359:LEU:O	5:E:362:MET:HB2	2.15	0.46
5:E:397:ASP:HA	5:E:402:GLN:HB2	1.97	0.46
5:E:421:ALA:O	5:E:425:VAL:N	2.44	0.46
5:E:542:PRO:HB3	5:E:629:ILE:HD12	1.95	0.46
5:E:34:LEU:HD12	5:E:543:LEU:HD21	1.97	0.46
5:E:565:LEU:N	5:E:586:PRO:HB3	2.30	0.46
5:E:98:ILE:O	5:E:98:ILE:HG22	2.16	0.46
8:2:272:ASP:OD1	8:2:273:LEU:N	2.49	0.46
8:2:520:PHE:HE2	8:2:822:LYS:CB	2.16	0.46
8:2:619:SER:CA	8:2:622:GLU:HB3	2.39	0.46
8:2:704:VAL:HG13	12:6:766:THR:CG2	2.41	0.46
9:3:41:SER:O	9:3:45:ILE:HG12	2.15	0.46
9:3:461:ALA:O	9:3:465:ALA:N	2.48	0.46
9:3:666:ARG:HB3	9:3:667:VAL:CG2	2.45	0.46
10:4:198:LEU:HD23	10:4:279:CYS:SG	2.56	0.46
10:4:211:GLU:HG3	10:4:212:ARG:N	2.29	0.46
10:4:727:LEU:HD22	13:7:444:VAL:HG12	1.96	0.46
10:4:774:TYR:HA	10:4:777:MET:HB2	1.97	0.46
10:4:830:ARG:O	10:4:834:LYS:N	2.42	0.46
11:5:653:LEU:HA	11:5:656:ILE:HD12	1.96	0.46
12:6:158:LEU:HD22	12:6:170:ILE:HD12	1.96	0.46
12:6:275:ARG:HD2	12:6:367:GLU:CG	2.45	0.46
12:6:533:ILE:CD1	12:6:548:LEU:HD11	2.44	0.46
12:6:551:MET:HE2	12:6:755:ILE:HD13	1.97	0.46
12:6:796:THR:CG2	12:6:798:ARG:HB3	2.45	0.46
13:7:441:ASP:O	13:7:442:LYS:HB2	2.15	0.46
13:7:470:LEU:HD22	13:7:522:CYS:HB3	1.97	0.46
13:7:530:ASP:O	13:7:534:ARG:HG3	2.16	0.46
13:7:595:ASP:OD1	13:7:596:ILE:N	2.48	0.46
13:7:62:LYS:HE3	13:7:66:MET:SD	2.56	0.46
13:7:658:ASP:O	13:7:662:GLN:HG3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:105:PHE:HZ	3:C:127:LEU:CD2	2.26	0.46
4:D:154:PHE:CB	4:D:158:LEU:HG	2.45	0.46
4:D:161:LEU:HD23	4:D:161:LEU:O	2.14	0.46
5:E:269:ASN:HA	5:E:272:LEU:HG	1.97	0.46
5:E:290:ARG:O	5:E:293:PRO:HD2	2.15	0.46
5:E:324:TYR:CD1	5:E:405:ILE:HA	2.50	0.46
5:E:358:ARG:O	5:E:361:LYS:HB3	2.14	0.46
5:E:421:ALA:O	5:E:425:VAL:HG23	2.15	0.46
5:E:530:LEU:CD2	5:E:536:LEU:HD11	2.43	0.46
5:E:5:ILE:HG23	5:E:142:CYS:SG	2.55	0.46
7:G:11:DC:H2"	7:G:12:DG:C8	2.51	0.46
8:2:790:TYR:HA	8:2:793:LEU:HB2	1.97	0.46
8:2:853:VAL:O	8:2:857:LEU:N	2.47	0.46
9:3:183:GLU:HA	9:3:293:ASN:HA	1.97	0.46
9:3:570:ARG:HD2	11:5:614:LEU:O	2.16	0.46
9:3:701:THR:O	9:3:704:THR:OG1	2.26	0.46
10:4:292:ASP:N	10:4:293:LEU:HA	2.30	0.46
10:4:315:ARG:HH22	13:7:251:VAL:N	2.08	0.46
10:4:531:TYR:HB2	10:4:723:HIS:ND1	2.31	0.46
10:4:545:PHE:HE1	10:4:751:ILE:HA	1.80	0.46
10:4:501:ILE:HD13	10:4:749:MET:HE2	1.97	0.46
10:4:909:ARG:HH22	12:6:698:ASN:HA	1.80	0.46
10:4:913:GLU:HA	12:6:697:GLY:HA3	1.98	0.46
11:5:353:GLU:HA	11:5:356:GLU:OE2	2.16	0.46
11:5:353:GLU:O	11:5:356:GLU:HG2	2.15	0.46
11:5:426:LEU:HD13	11:5:478:CYS:HB3	1.97	0.46
11:5:653:LEU:CD2	11:5:657:ILE:HD11	2.45	0.46
12:6:260:GLU:O	12:6:261:ARG:NH1	2.35	0.46
12:6:558:SER:HB2	12:6:559:THR:HG22	1.97	0.46
12:6:663:ILE:HG22	12:6:664:ALA:N	2.29	0.46
12:6:781:ARG:HG2	12:6:795:ILE:CB	2.45	0.46
12:6:713:PHE:HB3	12:6:837:ARG:NH1	2.30	0.46
13:7:426:LEU:HD23	13:7:426:LEU:O	2.16	0.46
13:7:68:GLN:HA	13:7:71:ALA:HB3	1.96	0.46
2:B:147:ASP:O	2:B:151:ILE:HG23	2.15	0.46
2:B:160:LEU:HD23	3:C:133:GLN:HE22	1.81	0.46
5:E:24:SER:HB2	5:E:25:CYS:HA	1.98	0.46
5:E:81:LEU:HD12	5:E:120:ILE:HG13	1.98	0.46
8:2:277:GLU:HA	8:2:280:GLU:CB	2.46	0.46
8:2:793:LEU:CD1	8:2:863:ILE:HG13	2.44	0.46
9:3:198:ARG:HB3	9:3:249:THR:H	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:233:THR:HA	9:3:241:LEU:HB2	1.96	0.46
9:3:281:ASP:O	9:3:285:LYS:HG2	2.16	0.46
9:3:441:GLY:CA	9:3:462:MET:H	2.29	0.46
9:3:340:GLN:HE22	9:3:658:LYS:HD3	1.80	0.46
9:3:695:SER:HB3	9:3:696:PRO:CA	2.41	0.46
10:4:267:GLU:O	10:4:271:ILE:HD12	2.16	0.46
10:4:572:THR:HG22	10:4:572:THR:O	2.15	0.46
10:4:578:LEU:HB3	10:4:630:CYS:SG	2.55	0.46
10:4:676:ASN:HA	10:4:677:PRO:HD2	1.82	0.46
10:4:727:LEU:HA	10:4:729:LEU:N	2.30	0.46
11:5:159:ILE:HA	11:5:296:GLY:O	2.15	0.46
11:5:562:GLU:O	11:5:566:ILE:HG13	2.14	0.46
11:5:572:VAL:O	11:5:575:ILE:HB	2.15	0.46
11:5:675:ARG:HG3	11:5:676:HIS:N	2.31	0.46
12:6:614:ARG:HG3	12:6:615:ASP:HA	1.96	0.46
12:6:777:TYR:O	12:6:780:LEU:HB3	2.14	0.46
13:7:435:LEU:CD1	13:7:454:ILE:HB	2.34	0.46
13:7:491:VAL:CA	13:7:494:THR:HG22	2.45	0.46
1:A:106:GLY:H	1:A:107:LEU:HB2	1.80	0.46
3:C:135:LEU:HD23	3:C:138:HIS:CD2	2.50	0.46
4:D:282:ILE:HD12	4:D:282:ILE:C	2.35	0.46
5:E:158:ALA:CB	5:E:237:LEU:HD13	2.45	0.46
5:E:600:PRO:C	5:E:602:LEU:H	2.18	0.46
5:E:92:LEU:HG	5:E:95:PHE:CD2	2.49	0.46
8:2:232:ARG:HA	8:2:283:TYR:OH	2.16	0.46
8:2:359:ILE:CB	8:2:360:ARG:HA	2.44	0.46
8:2:758:ILE:CG2	8:2:759:PRO:HD2	2.45	0.46
9:3:176:LEU:HD11	9:3:300:SER:HB3	1.96	0.46
9:3:287:LYS:HB2	9:3:288:PRO:HD2	1.96	0.46
9:3:320:LEU:HD11	9:3:322:LEU:CD2	2.46	0.46
10:4:344:VAL:H	10:4:390:SER:HB2	1.81	0.46
10:4:566:LEU:CD1	10:4:574:LYS:HD3	2.46	0.46
10:4:540:ILE:HD11	10:4:577:ILE:HG21	1.98	0.46
11:5:32:LYS:O	11:5:35:ILE:HB	2.15	0.46
11:5:473:ASP:HA	11:5:517:THR:HG23	1.96	0.46
8:2:525:LYS:HZ1	11:5:576:HIS:HB3	1.81	0.46
12:6:288:LEU:HD12	12:6:289:SER:N	2.31	0.46
12:6:516:LEU:HD21	12:6:754:TYR:HA	1.97	0.46
13:7:335:VAL:HG13	13:7:339:LEU:CD2	2.45	0.46
13:7:251:VAL:CG2	13:7:340:VAL:HG21	2.35	0.46
13:7:410:VAL:O	13:7:414:LEU:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:161:VAL:O	1:A:193:GLN:N	2.49	0.46
1:A:46:ASN:O	1:A:49:LYS:HB3	2.15	0.46
3:C:125:SER:O	3:C:128:LEU:HB3	2.16	0.46
3:C:33:ASN:N	3:C:34:PRO:HD2	2.31	0.46
4:D:124:LEU:HB2	4:D:125:PRO:HD3	1.98	0.46
4:D:60:PHE:O	4:D:63:LEU:HB3	2.16	0.46
5:E:348:LEU:HB2	5:E:350:LEU:HD23	1.97	0.46
5:E:362:MET:HE3	5:E:396:LEU:HA	1.97	0.46
5:E:569:LEU:HG	5:E:584:LEU:HD11	1.97	0.46
8:2:343:LYS:H	8:2:371:GLY:HA2	1.79	0.46
8:2:333:GLN:HB3	8:2:383:ARG:CG	2.45	0.46
8:2:387:ARG:HD2	8:2:407:GLU:OE2	2.15	0.46
8:2:522:GLY:HA3	8:2:818:GLU:CD	2.35	0.46
8:2:780:GLN:OE1	11:5:573:ILE:HG22	2.16	0.46
9:3:363:LEU:O	9:3:367:LEU:HG	2.16	0.46
9:3:490:MET:HE1	9:3:542:ARG:HB3	1.96	0.46
9:3:493:GLN:CG	9:3:509:ARG:HA	2.44	0.46
9:3:409:GLY:HA2	9:3:524:ASP:OD2	2.16	0.46
10:4:774:TYR:HB2	10:4:801:MET:HE1	1.97	0.46
11:5:35:ILE:O	11:5:36:LEU:HD23	2.16	0.46
11:5:482:PHE:CE1	11:5:485:MET:HE2	2.51	0.46
11:5:577:THR:HA	11:5:579:ASN:H	1.81	0.46
12:6:576:ASP:HA	12:6:687:GLY:O	2.15	0.46
12:6:639:ASP:HA	12:6:681:ALA:O	2.16	0.46
13:7:138:VAL:HA	13:7:141:VAL:CG2	2.45	0.46
13:7:383:GLN:HB2	13:7:386:LYS:HZ3	1.81	0.46
13:7:581:LEU:C	13:7:581:LEU:HD23	2.36	0.46
1:A:114:THR:O	1:A:115:PHE:HB2	2.15	0.46
1:A:43:GLU:O	1:A:47:LEU:N	2.43	0.46
3:C:174:LYS:HG2	3:C:178:LYS:NZ	2.30	0.46
3:C:183:SER:O	3:C:187:THR:OG1	2.23	0.46
3:C:19:LYS:CE	3:C:73:GLU:HG2	2.45	0.46
4:D:154:PHE:HB2	4:D:158:LEU:HD11	1.97	0.46
4:D:220:ASP:CB	4:D:221:GLU:HA	2.44	0.46
4:D:232:VAL:CA	4:D:291:VAL:HG23	2.44	0.46
5:E:436:ASN:ND2	5:E:472:ARG:HD2	2.23	0.46
5:E:537:ASP:HA	5:E:540:ARG:CG	2.39	0.46
5:E:569:LEU:CD1	5:E:584:LEU:HD11	2.45	0.46
5:E:30:PHE:HD1	5:E:61:ILE:HD11	1.80	0.46
8:2:302:THR:HG1	8:2:319:ARG:HB3	1.81	0.46
8:2:526:ASN:OD1	8:2:527:VAL:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:546:GLY:HA2	12:6:798:ARG:HH22	1.80	0.46
9:3:132:LEU:O	9:3:136:MET:N	2.40	0.46
9:3:682:ASN:HD21	9:3:730:ALA:HB1	1.80	0.46
10:4:191:THR:O	10:4:195:ARG:HG3	2.15	0.46
10:4:243:LEU:CG	10:4:244:ASP:N	2.78	0.46
10:4:545:PHE:CE1	10:4:751:ILE:HA	2.51	0.46
10:4:566:LEU:HD12	10:4:566:LEU:O	2.16	0.46
10:4:605:ILE:O	10:4:605:ILE:HG23	2.15	0.46
10:4:819:LEU:HD23	10:4:819:LEU:C	2.36	0.46
11:5:320:GLY:N	11:5:323:ILE:HB	2.19	0.46
11:5:477:VAL:HG21	11:5:519:VAL:HG22	1.97	0.46
11:5:59:TYR:HD1	11:5:135:PHE:CE1	2.33	0.46
12:6:400:VAL:HG23	12:6:455:LEU:HB3	1.98	0.46
12:6:547:ILE:HG21	12:6:588:VAL:HG21	1.97	0.46
12:6:795:ILE:HG22	12:6:796:THR:N	2.31	0.46
12:6:795:ILE:HG22	12:6:799:GLN:CG	2.36	0.46
13:7:157:ARG:HH22	13:7:267:TYR:HE1	1.62	0.46
13:7:209:GLN:O	13:7:212:ALA:N	2.49	0.46
13:7:235:LEU:HA	13:7:355:PHE:HD2	1.80	0.46
13:7:456:VAL:O	13:7:564:LEU:HA	2.16	0.46
13:7:493:LEU:O	13:7:514:VAL:HG23	2.15	0.46
13:7:661:VAL:O	13:7:664:TYR:HB3	2.16	0.46
1:A:100:MET:HG2	1:A:117:GLN:HE21	1.80	0.46
1:A:52:GLU:HA	1:A:55:LYS:CB	2.42	0.46
2:B:176:LEU:C	2:B:176:LEU:HD23	2.36	0.46
3:C:26:GLY:N	3:C:36:ARG:HG3	2.28	0.46
3:C:96:ASP:O	3:C:99:SER:OG	2.30	0.46
4:D:260:ILE:CG1	4:D:266:GLU:HG3	2.46	0.46
5:E:389:GLY:O	5:E:392:PHE:HB2	2.16	0.46
8:2:444:PHE:O	8:2:446:VAL:HG23	2.16	0.46
8:2:477:THR:HG22	8:2:478:GLU:H	1.80	0.46
8:2:502:ALA:HB1	8:2:505:ILE:CD1	2.46	0.46
8:2:537:ILE:HD12	8:2:537:ILE:N	2.31	0.46
8:2:579:SER:HB2	12:6:666:ALA:HB1	1.97	0.46
9:3:33:ASP:CA	9:3:39:ARG:HH11	2.28	0.46
9:3:389:VAL:CG2	9:3:669:PRO:HD2	2.44	0.46
9:3:731:ASN:O	9:3:734:ARG:HB2	2.15	0.46
10:4:416:SER:OG	10:4:460:TYR:HA	2.15	0.46
10:4:621:LEU:O	10:4:624:SER:HB2	2.15	0.46
10:4:714:GLU:HB3	10:4:715:LYS:HB3	1.96	0.46
11:5:98:ALA:O	11:5:102:SER:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:181:ILE:HG23	11:5:242:ILE:O	2.16	0.46
11:5:331:LEU:HA	11:5:332:GLY:HA2	1.46	0.46
11:5:440:SER:HA	11:5:480:ASP:CB	2.35	0.46
11:5:38:PHE:CE2	11:5:45:ILE:HG12	2.51	0.46
12:6:288:LEU:CG	12:6:290:ILE:HD11	2.45	0.46
12:6:370:THR:HA	12:6:371:GLY:HA2	1.72	0.46
12:6:563:ILE:HD12	12:6:563:ILE:N	2.29	0.46
12:6:625:ALA:CB	12:6:626:GLY:CA	2.87	0.46
12:6:601:LYS:CG	12:6:643:LYS:HB3	2.45	0.46
12:6:736:MET:HA	12:6:736:MET:CE	2.45	0.46
12:6:764:ILE:C	12:6:818:GLU:HA	2.36	0.46
13:7:112:HIS:NE2	13:7:116:LEU:HD13	2.31	0.46
10:4:315:ARG:NH2	13:7:251:VAL:H	2.07	0.46
13:7:520:ILE:N	13:7:520:ILE:HD12	2.30	0.46
13:7:522:CYS:C	13:7:523:ILE:HG13	2.35	0.46
1:A:29:LEU:HD22	1:A:97:LEU:HD21	1.98	0.46
1:A:5:LEU:CG	1:A:36:ILE:HD11	2.46	0.46
2:B:26:LYS:HG2	2:B:70:GLU:N	2.31	0.46
2:B:29:PRO:O	2:B:65:ALA:HA	2.15	0.46
2:B:79:LEU:HD22	2:B:84:LYS:HD3	1.98	0.46
3:C:19:LYS:CG	3:C:73:GLU:HB3	2.45	0.46
3:C:12:ASP:O	3:C:48:LEU:N	2.49	0.46
4:D:127:LEU:HD23	4:D:127:LEU:O	2.14	0.46
2:B:167:HIS:CE1	4:D:275:TYR:HB3	2.51	0.46
4:D:80:PRO:HG2	4:D:84:MET:CE	2.46	0.46
1:A:184:ILE:CD1	5:E:73:GLN:HE22	2.27	0.46
5:E:81:LEU:N	5:E:119:ASP:O	2.49	0.46
6:F:18:DT:H2"	6:F:19:DT:C4	2.50	0.46
8:2:334:LEU:HD11	11:5:323:ILE:HA	1.98	0.46
8:2:328:THR:HG22	8:2:387:ARG:O	2.15	0.46
8:2:477:THR:HG22	8:2:478:GLU:N	2.31	0.46
8:2:509:ARG:O	8:2:513:THR:OG1	2.33	0.46
8:2:624:MET:HE1	8:2:676:ARG:HB2	1.98	0.46
9:3:32:LEU:HD22	9:3:38:TYR:CB	2.46	0.46
9:3:459:ALA:N	13:7:327:ILE:HD11	2.29	0.46
10:4:519:TYR:OH	10:4:538:LYS:HD3	2.16	0.46
10:4:607:ARG:HB2	10:4:614:LEU:CD2	2.38	0.46
11:5:194:ILE:HD12	11:5:197:PHE:CE2	2.51	0.46
11:5:389:VAL:HA	11:5:392:LEU:HD12	1.97	0.46
12:6:357:GLN:CG	12:6:386:VAL:HG23	2.37	0.46
10:4:761:ILE:HD11	12:6:737:LYS:HD2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:791:SER:OG	12:6:835:ILE:O	2.33	0.46
12:6:814:ASN:O	12:6:815:CYS:HB3	2.15	0.46
13:7:225:LEU:HB3	13:7:229:GLN:HB2	1.97	0.46
13:7:696:SER:HA	13:7:699:LEU:HB2	1.98	0.46
1:A:130:TYR:CG	4:D:193:LEU:HD22	2.51	0.46
1:A:149:ILE:HG12	4:D:141:ARG:HE	1.79	0.46
2:B:181:LEU:C	2:B:181:LEU:HD12	2.37	0.46
2:B:56:ASP:O	4:D:57:GLN:NE2	2.46	0.46
2:B:31:ILE:HD11	2:B:63:MET:HB2	1.98	0.46
3:C:137:HIS:HA	11:5:55:LEU:CD1	2.27	0.46
3:C:27:LEU:HD22	3:C:33:ASN:HA	1.98	0.46
4:D:168:LEU:HD11	4:D:171:LEU:CD1	2.46	0.46
4:D:198:ILE:HG13	4:D:199:LEU:N	2.30	0.46
4:D:285:LEU:O	4:D:289:ASP:N	2.49	0.46
4:D:88:LEU:HD23	4:D:88:LEU:O	2.16	0.46
5:E:372:THR:O	5:E:375:GLU:HB3	2.16	0.46
5:E:632:ILE:HD12	5:E:633:ARG:H	1.81	0.46
8:2:208:ALA:O	8:2:212:LYS:HG2	2.16	0.45
8:2:541:LEU:C	8:2:541:LEU:HD23	2.36	0.45
8:2:607:ASP:HA	8:2:649:ALA:O	2.17	0.45
9:3:103:LEU:HD13	9:3:114:ILE:HD12	1.97	0.45
9:3:172:THR:HG22	9:3:176:LEU:CA	2.46	0.45
9:3:486:ILE:HA	9:3:489:VAL:CG2	2.46	0.45
10:4:248:LEU:HD13	10:4:258:TYR:HA	1.98	0.45
10:4:257:LEU:HD21	10:4:272:MET:HE2	1.98	0.45
10:4:315:ARG:HE	10:4:410:GLN:NE2	2.14	0.45
10:4:308:VAL:HG11	10:4:325:LEU:HD13	1.98	0.45
11:5:169:THR:HG21	11:5:256:LEU:HG	1.97	0.45
8:2:641:GLN:NE2	11:5:262:PRO:HB2	2.31	0.45
11:5:643:ARG:NH1	11:5:692:ALA:HA	2.30	0.45
12:6:713:PHE:O	12:6:715:ILE:HD12	2.16	0.45
12:6:732:VAL:O	12:6:736:MET:HE2	2.16	0.45
12:6:800:LEU:HA	12:6:803:MET:HB3	1.98	0.45
13:7:245:ILE:CD1	13:7:343:LEU:HB3	2.43	0.45
13:7:452:GLY:H	13:7:694:ARG:CD	2.28	0.45
13:7:514:VAL:HG22	13:7:557:LEU:HD11	1.97	0.45
13:7:587:PRO:HD2	13:7:590:LEU:HD13	1.97	0.45
13:7:599:LEU:HD12	13:7:599:LEU:O	2.16	0.45
4:D:133:LEU:HD22	4:D:134:GLU:HG3	1.97	0.45
4:D:175:LEU:HB3	4:D:180:ILE:HG23	1.97	0.45
4:D:180:ILE:O	4:D:183:HIS:HB3	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:171:ASP:O	4:D:274:ILE:HG12	2.16	0.45
5:E:13:ASN:HD22	5:E:16:LEU:HD11	1.80	0.45
5:E:27:LEU:C	5:E:27:LEU:HD22	2.37	0.45
5:E:249:ASN:OD1	5:E:287:VAL:HB	2.16	0.45
5:E:318:LEU:HD12	5:E:318:LEU:C	2.37	0.45
5:E:67:LEU:HD11	5:E:83:LEU:HD12	1.97	0.45
8:2:339:PHE:CG	8:2:373:PHE:HB3	2.52	0.45
8:2:409:ILE:HB	8:2:452:GLU:CG	2.45	0.45
8:2:432:ASN:O	8:2:447:PHE:HB3	2.16	0.45
8:2:769:TYR:CZ	8:2:773:LYS:HE2	2.51	0.45
8:2:849:GLN:HB2	8:2:853:VAL:CG2	2.46	0.45
9:3:192:VAL:HG21	9:3:283:VAL:CG1	2.46	0.45
9:3:437:SER:CB	9:3:438:SER:CA	2.80	0.45
9:3:553:ILE:HB	11:5:630:ARG:HH11	1.81	0.45
10:4:601:LEU:CB	10:4:621:LEU:HG	2.46	0.45
10:4:872:VAL:HG11	10:4:881:MET:HB3	1.98	0.45
11:5:161:ARG:N	11:5:295:VAL:HG13	2.31	0.45
11:5:482:PHE:CA	11:5:523:ALA:HB2	2.46	0.45
11:5:498:GLU:OE2	11:5:549:ARG:HB3	2.15	0.45
11:5:570:ASN:HA	11:5:573:ILE:HD13	1.98	0.45
11:5:625:ASN:HD21	11:5:681:ILE:HG23	1.80	0.45
11:5:685:GLN:O	11:5:688:THR:OG1	2.34	0.45
12:6:134:LYS:NZ	12:6:137:ARG:HD2	2.31	0.45
12:6:294:VAL:CB	12:6:391:PRO:HA	2.45	0.45
13:7:451:ARG:HA	13:7:452:GLY:HA3	1.60	0.45
1:A:83:LYS:CG	1:A:87:LEU:HD21	2.47	0.45
2:B:167:HIS:CD2	4:D:267:VAL:HG11	2.52	0.45
2:B:196:HIS:O	2:B:199:SER:HB3	2.16	0.45
4:D:177:LYS:HA	4:D:180:ILE:HG12	1.97	0.45
5:E:616:THR:OG1	5:E:643:LYS:NZ	2.49	0.45
8:2:518:SER:HB2	8:2:537:ILE:HB	1.97	0.45
8:2:667:VAL:CG2	8:2:669:LEU:HB2	2.47	0.45
9:3:172:THR:HG22	9:3:176:LEU:HB2	1.98	0.45
9:3:287:LYS:HB3	13:7:326:HIS:NE2	2.32	0.45
9:3:418:LEU:O	9:3:422:VAL:HG23	2.17	0.45
9:3:470:VAL:CB	9:3:512:VAL:HG13	2.47	0.45
9:3:470:VAL:HB	9:3:512:VAL:CG2	2.44	0.45
10:4:284:ILE:HG21	10:4:297:GLU:OE2	2.16	0.45
10:4:331:LEU:HB2	10:4:430:GLY:C	2.36	0.45
10:4:343:LYS:HB2	10:4:390:SER:CB	2.44	0.45
10:4:501:ILE:HG21	10:4:749:MET:CE	2.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:144:ASN:H	11:5:161:ARG:HH11	1.64	0.45
11:5:205:VAL:HG12	11:5:206:SER:N	2.31	0.45
9:3:477:LYS:CB	11:5:491:VAL:HG11	2.46	0.45
11:5:86:ILE:HG22	11:5:90:PHE:CZ	2.51	0.45
12:6:405:PRO:CA	12:6:450:TYR:HD1	2.30	0.45
12:6:533:ILE:HD13	12:6:544:LYS:HB3	1.97	0.45
12:6:770:ARG:O	12:6:773:LEU:HB3	2.16	0.45
12:6:820:THR:HB	12:6:821:PRO:HD2	1.97	0.45
13:7:21:ILE:HG23	13:7:117:PHE:CD1	2.51	0.45
13:7:209:GLN:H	13:7:212:ALA:CB	2.29	0.45
13:7:28:PHE:N	13:7:61:PRO:HB3	2.30	0.45
13:7:643:ALA:HA	13:7:646:LYS:HD3	1.98	0.45
13:7:648:LYS:HE2	13:7:704:LEU:CB	2.39	0.45
1:A:165:VAL:O	1:A:188:GLN:HA	2.17	0.45
1:A:29:LEU:N	1:A:119:ASP:OD2	2.48	0.45
2:B:185:ILE:N	2:B:185:ILE:HD12	2.30	0.45
2:B:4:PRO:HB2	2:B:8:GLN:CB	2.46	0.45
3:C:101:ASN:N	3:C:102:SER:HA	2.20	0.45
3:C:133:GLN:O	3:C:136:ASN:HB3	2.15	0.45
1:A:130:TYR:CE1	4:D:193:LEU:HB2	2.52	0.45
4:D:212:THR:H	4:D:213:GLU:HA	1.76	0.45
5:E:266:ASN:HB2	5:E:269:ASN:ND2	2.31	0.45
5:E:287:VAL:HA	5:E:290:ARG:NH1	2.31	0.45
5:E:297:ASP:HA	5:E:300:LYS:HE2	1.98	0.45
5:E:32:SER:HA	5:E:33:CYS:HA	1.39	0.45
5:E:520:LYS:HD2	5:E:520:LYS:N	2.32	0.45
5:E:548:LEU:HG	5:E:552:LEU:HD13	1.97	0.45
5:E:66:GLU:OE2	5:E:70:HIS:NE2	2.49	0.45
8:2:211:LEU:HD12	8:2:212:LYS:N	2.31	0.45
8:2:338:LYS:HB3	8:2:380:THR:CG2	2.45	0.45
8:2:384:ASN:N	8:2:384:ASN:OD1	2.47	0.45
8:2:684:ARG:CB	8:2:685:ASP:CA	2.86	0.45
9:3:179:LEU:HD21	9:3:295:VAL:HG12	1.99	0.45
9:3:439:GLY:CA	9:3:442:LEU:HD22	2.45	0.45
9:3:528:ASP:O	9:3:532:ASN:HB2	2.17	0.45
10:4:197:PHE:CE1	10:4:248:LEU:HD23	2.52	0.45
10:4:343:LYS:CE	10:4:392:ALA:HB3	2.46	0.45
10:4:534:GLU:N	10:4:534:GLU:OE1	2.35	0.45
10:4:557:ARG:HH11	10:4:668:ARG:NE	2.14	0.45
10:4:799:GLU:OE2	10:4:803:ARG:HD2	2.16	0.45
11:5:38:PHE:HZ	11:5:40:LEU:HD23	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:349:VAL:HG13	13:7:351:VAL:HG23	1.98	0.45
13:7:401:VAL:HG12	13:7:405:ILE:HG13	1.98	0.45
13:7:459:MET:O	13:7:599:LEU:HA	2.16	0.45
13:7:548:ILE:HG23	13:7:550:LYS:NZ	2.31	0.45
13:7:458:LEU:CD1	13:7:600:MET:HE1	2.34	0.45
13:7:694:ARG:O	13:7:698:ALA:N	2.49	0.45
1:A:30:PRO:O	1:A:31:MET:HB2	2.17	0.45
2:B:11:PHE:HE1	4:D:71:ARG:HB2	1.81	0.45
4:D:202:MET:HG2	4:D:207:GLN:HG2	1.98	0.45
4:D:231:HIS:HB3	4:D:292:ALA:HB3	1.98	0.45
4:D:93:MET:HE2	4:D:93:MET:HA	1.98	0.45
5:E:131:LEU:CD1	5:E:237:LEU:HD11	2.46	0.45
5:E:258:LEU:O	5:E:261:ALA:HB3	2.16	0.45
5:E:308:ASN:HA	5:E:309:SER:CB	2.23	0.45
5:E:44:MET:HG3	5:E:45:LEU:N	2.31	0.45
5:E:527:LEU:HG	5:E:568:VAL:HG11	1.97	0.45
8:2:325:THR:HG22	8:2:326:ARG:N	2.26	0.45
8:2:662:PRO:O	8:2:665:GLN:N	2.43	0.45
8:2:803:PHE:H	8:2:804:PRO:HA	1.80	0.45
9:3:241:LEU:N	9:3:241:LEU:HD23	2.32	0.45
9:3:392:ASN:CG	9:3:398:HIS:HB3	2.37	0.45
9:3:420:ARG:HA	9:3:423:LEU:HB3	1.98	0.45
9:3:445:ALA:HA	9:3:457:LEU:HD23	1.95	0.45
9:3:404:ASN:HD22	9:3:490:MET:CE	2.29	0.45
10:4:532:GLU:HG2	10:4:533:LEU:N	2.29	0.45
10:4:826:VAL:HA	10:4:829:ILE:HD12	1.99	0.45
12:6:359:VAL:CG2	12:6:379:VAL:HG13	2.41	0.45
12:6:407:VAL:O	12:6:407:VAL:HG12	2.16	0.45
12:6:405:PRO:HA	12:6:449:THR:O	2.17	0.45
12:6:684:PRO:HB2	12:6:687:GLY:N	2.31	0.45
12:6:690:ASN:HB3	12:6:693:LEU:HD12	1.97	0.45
12:6:695:LEU:O	12:6:695:LEU:HD23	2.16	0.45
12:6:702:THR:CG2	12:6:705:ILE:HG12	2.45	0.45
1:A:100:MET:HE1	1:A:117:GLN:H	1.82	0.45
3:C:166:LEU:HA	3:C:169:LEU:HD13	1.98	0.45
4:D:56:PRO:O	4:D:59:ASP:HB2	2.17	0.45
5:E:256:TYR:HB2	5:E:273:ASN:HD21	1.81	0.45
5:E:361:LYS:O	5:E:365:ARG:HG2	2.16	0.45
5:E:36:ILE:HA	5:E:39:LEU:CD1	2.47	0.45
5:E:492:LEU:HG	5:E:496:ILE:HG13	1.97	0.45
5:E:640:PHE:O	5:E:644:LEU:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:93:GLU:O	5:E:97:GLU:HB3	2.17	0.45
6:F:24:DT:C6	6:F:25:DT:H73	2.51	0.45
9:3:201:HIS:HB2	9:3:210:HIS:CG	2.51	0.45
9:3:306:MET:HG2	11:5:205:VAL:O	2.16	0.45
9:3:472:ILE:HB	9:3:514:ALA:HB2	1.96	0.45
9:3:685:ASP:HA	9:3:688:ASN:HD22	1.81	0.45
10:4:241:LEU:CD2	10:4:243:LEU:H	2.23	0.45
10:4:257:LEU:HD21	10:4:272:MET:CE	2.47	0.45
10:4:722:LYS:CA	10:4:725:THR:HB	2.47	0.45
10:4:919:LEU:HD22	10:4:925:ARG:HB2	1.99	0.45
11:5:264:LEU:HA	11:5:265:VAL:HA	1.69	0.45
11:5:385:LYS:HA	11:5:388:ILE:CD1	2.47	0.45
11:5:409:ASP:HB3	11:5:518:SER:HB2	1.99	0.45
8:2:585:ILE:CD1	11:5:457:PRO:HA	2.42	0.45
11:5:562:GLU:CD	11:5:562:GLU:H	2.20	0.45
11:5:652:GLN:O	11:5:656:ILE:HG13	2.16	0.45
8:2:611:LYS:HG3	12:6:650:VAL:HG22	1.99	0.45
12:6:732:VAL:O	12:6:736:MET:N	2.49	0.45
13:7:342:SER:O	13:7:383:GLN:NE2	2.50	0.45
13:7:438:GLY:O	13:7:701:LYS:NZ	2.30	0.45
13:7:662:GLN:O	13:7:666:ARG:HG3	2.17	0.45
1:A:98:ASP:O	1:A:101:ALA:HB3	2.17	0.45
2:B:115:LEU:HD21	2:B:152:ARG:CZ	2.46	0.45
2:B:59:ALA:HA	2:B:60:LEU:HA	1.76	0.45
2:B:64:VAL:HB	2:B:67:ARG:HD2	1.99	0.45
4:D:127:LEU:HD23	4:D:131:THR:HG1	1.80	0.45
5:E:516:LYS:HB3	5:E:518:LEU:HD21	1.99	0.45
5:E:535:ASP:OD1	11:5:583:MET:HE2	2.17	0.45
5:E:637:LEU:O	5:E:640:PHE:HB3	2.16	0.45
5:E:83:LEU:HD23	5:E:84:VAL:N	2.31	0.45
5:E:96:LEU:O	5:E:97:GLU:HG2	2.15	0.45
8:2:341:CYS:HA	8:2:374:ARG:H	1.80	0.45
8:2:364:CYS:H	8:2:368:LYS:HA	1.81	0.45
8:2:505:ILE:HD13	8:2:552:ILE:HG13	1.98	0.45
8:2:702:SER:O	12:6:559:THR:HG21	2.16	0.45
8:2:853:VAL:HA	8:2:856:GLN:HB3	1.99	0.45
9:3:535:LEU:HD13	9:3:539:LEU:HD13	1.98	0.45
9:3:564:HIS:O	9:3:568:THR:OG1	2.22	0.45
9:3:676:ILE:HA	9:3:679:ILE:CD1	2.46	0.45
10:4:204:LYS:CG	10:4:251:TYR:HD1	2.28	0.45
10:4:322:ILE:HD11	13:7:307:PHE:CD2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:605:ILE:HG13	10:4:616:LEU:HD12	1.98	0.45
10:4:721:ALA:HA	10:4:724:LEU:HD12	1.98	0.45
10:4:856:VAL:HG23	10:4:857:ILE:N	2.32	0.45
11:5:449:LEU:HD21	11:5:493:ILE:CD1	2.31	0.45
11:5:455:ARG:HG2	11:5:462:PHE:CE1	2.52	0.45
6:F:21:DT:H3'	11:5:506:LYS:CE	2.46	0.45
11:5:595:SER:C	11:5:596:ILE:HD12	2.37	0.45
11:5:94:ILE:HG22	11:5:135:PHE:CD2	2.51	0.45
11:5:92:THR:O	11:5:95:THR:HG22	2.16	0.45
12:6:111:VAL:CA	12:6:114:ALA:HB3	2.43	0.45
12:6:185:LEU:O	12:6:188:VAL:HB	2.16	0.45
12:6:267:PHE:HD2	12:6:287:LEU:CD1	2.30	0.45
12:6:297:THR:CB	12:6:359:VAL:HG12	2.47	0.45
12:6:805:ARG:HA	12:6:808:GLU:CG	2.46	0.45
13:7:246:THR:HG22	13:7:247:ARG:N	2.32	0.45
13:7:397:VAL:HG22	13:7:400:ARG:HH21	1.80	0.45
1:A:37:ILE:O	1:A:40:ILE:HB	2.17	0.45
4:D:181:LYS:O	4:D:185:THR:HG23	2.17	0.45
4:D:216:VAL:H	4:D:217:ASN:CB	2.29	0.45
4:D:154:PHE:CE1	4:D:221:GLU:HB2	2.40	0.45
5:E:381:ASP:O	5:E:385:LYS:N	2.50	0.45
5:E:426:GLU:HA	5:E:429:THR:HG23	1.99	0.45
5:E:559:SER:CA	5:E:560:GLU:HB3	2.35	0.45
5:E:71:TYR:CD2	5:E:96:LEU:HD13	2.51	0.45
8:2:294:HIS:O	8:2:296:ARG:NH1	2.50	0.45
8:2:309:LEU:O	8:2:310:ARG:HD3	2.16	0.45
8:2:497:ILE:HD13	8:2:823:MET:CE	2.47	0.45
8:2:549:LYS:HG3	8:2:550:SER:H	1.81	0.45
8:2:614:ASP:HA	8:2:617:ARG:HH11	1.81	0.45
8:2:633:LYS:HA	8:2:634:ALA:HA	1.58	0.45
8:2:756:SER:HB2	8:2:757:PRO:CD	2.47	0.45
9:3:179:LEU:HA	9:3:297:VAL:CA	2.44	0.45
9:3:199:SER:HA	9:3:248:SER:HB3	1.99	0.45
9:3:257:THR:HG22	9:3:275:ASP:HB3	1.98	0.45
9:3:314:LEU:HD23	11:5:201:THR:CG2	2.44	0.45
9:3:367:LEU:CD1	9:3:382:LEU:HD13	2.46	0.45
9:3:38:TYR:CE2	9:3:98:ILE:HG23	2.51	0.45
10:4:373:ARG:HA	10:4:374:ILE:HA	1.78	0.45
10:4:568:GLY:N	10:4:574:LYS:HZ3	2.15	0.45
10:4:761:ILE:HG12	12:6:737:LYS:HD2	1.97	0.45
11:5:494:HIS:CE1	11:5:546:ILE:HG13	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:61:LEU:HD23	11:5:62:THR:N	2.32	0.45
12:6:134:LYS:N	12:6:135:VAL:CA	2.71	0.45
12:6:326:LYS:N	12:6:327:TYR:HA	2.28	0.45
12:6:629:MET:O	12:6:632:ASP:N	2.50	0.45
12:6:689:TYR:HB3	12:6:691:ARG:N	2.32	0.45
13:7:118:CYS:HB2	13:7:202:LEU:HD13	1.99	0.45
13:7:435:LEU:HD12	13:7:435:LEU:O	2.17	0.45
13:7:650:PRO:CB	13:7:706:ASP:HA	2.46	0.45
1:A:151:LEU:H	1:A:151:LEU:CD1	2.29	0.45
1:A:55:LYS:O	1:A:58:GLN:HG2	2.17	0.45
3:C:25:PRO:HA	3:C:37:PRO:HB3	1.99	0.45
4:D:182:TYR:HA	4:D:185:THR:OG1	2.17	0.45
5:E:122:VAL:O	5:E:143:PHE:CB	2.65	0.45
5:E:34:LEU:HD11	5:E:543:LEU:CG	2.45	0.45
5:E:380:MET:CE	5:E:384:ILE:HG22	2.46	0.45
8:2:334:LEU:HD12	8:2:334:LEU:N	2.32	0.45
8:2:340:ASN:HD21	8:2:374:ARG:HH21	1.64	0.45
8:2:496:LYS:HG2	8:2:758:ILE:CD1	2.47	0.45
9:3:353:LEU:HD23	9:3:359:ILE:HD12	1.98	0.45
10:4:243:LEU:HD21	10:4:245:ALA:CB	2.42	0.45
10:4:419:VAL:HG21	10:4:424:VAL:HA	1.98	0.45
10:4:696:PRO:CD	10:4:697:PRO:HD2	2.47	0.45
10:4:830:ARG:CA	10:4:833:ILE:HD12	2.43	0.45
11:5:178:TYR:HA	11:5:193:THR:HG22	1.99	0.45
11:5:502:ILE:HG22	11:5:504:ILE:CD1	2.47	0.45
11:5:635:ILE:HA	11:5:638:LEU:CG	2.41	0.45
11:5:677:VAL:O	11:5:681:ILE:HD12	2.17	0.45
12:6:137:ARG:HA	12:6:140:ILE:HD13	1.98	0.45
12:6:359:VAL:CG1	12:6:381:LEU:HD11	2.47	0.45
12:6:551:MET:CE	12:6:755:ILE:HD13	2.47	0.45
12:6:819:ILE:CG2	12:6:820:THR:N	2.76	0.45
13:7:248:VAL:HG11	13:7:345:PRO:CD	2.41	0.45
13:7:360:TYR:CE2	13:7:363:PHE:HB2	2.52	0.45
13:7:441:ASP:CA	13:7:452:GLY:HA2	2.46	0.45
13:7:546:ILE:CD1	13:7:559:ALA:HB2	2.46	0.45
13:7:692:ILE:CA	13:7:695:LEU:HG	2.46	0.45
1:A:151:LEU:HD22	1:A:151:LEU:C	2.38	0.45
3:C:22:TYR:OH	3:C:69:VAL:HB	2.16	0.45
3:C:25:PRO:HA	3:C:37:PRO:HA	1.99	0.45
3:C:47:PRO:HG2	3:C:50:LEU:HD21	1.98	0.45
3:C:91:ASP:HB3	3:C:94:ALA:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:248:GLU:N	4:D:250:GLU:OE1	2.49	0.45
4:D:85:LYS:O	4:D:89:ASN:N	2.46	0.45
5:E:120:ILE:HD13	5:E:139:ILE:HG21	1.99	0.45
5:E:163:LEU:HA	5:E:164:GLU:HA	1.64	0.45
5:E:399:TYR:HB2	5:E:401:LEU:HG	1.98	0.45
5:E:318:LEU:HB3	5:E:411:ARG:HA	1.98	0.45
5:E:420:SER:HB2	5:E:423:GLU:HG2	1.98	0.45
5:E:608:ALA:HA	5:E:611:GLN:HG2	1.99	0.45
8:2:242:LEU:HD23	8:2:243:GLU:N	2.31	0.45
8:2:292:GLU:C	8:2:293:ILE:HD12	2.37	0.45
8:2:342:LEU:HD22	8:2:370:LYS:O	2.16	0.45
8:2:543:GLY:H	8:2:652:PRO:HD3	1.81	0.45
8:2:756:SER:HB2	8:2:757:PRO:HD3	1.98	0.45
9:3:152:PRO:HB2	9:3:154:LYS:HG2	1.98	0.45
9:3:320:LEU:HD11	9:3:322:LEU:HD21	1.99	0.45
9:3:661:GLN:HA	9:3:664:LYS:CD	2.43	0.45
10:4:201:PHE:H	10:4:224:LEU:HB3	1.81	0.45
10:4:351:VAL:HG12	10:4:352:CYS:CA	2.43	0.45
10:4:605:ILE:HD13	10:4:659:ALA:CB	2.47	0.45
11:5:378:ILE:HA	14:5:801:ATP:H2	1.82	0.45
11:5:409:ASP:HB3	11:5:518:SER:HB3	1.99	0.45
11:5:488:GLU:HG2	11:5:489:ASP:H	1.80	0.45
11:5:504:ILE:N	11:5:504:ILE:HD12	2.32	0.45
12:6:111:VAL:HG13	12:6:166:LEU:CG	2.46	0.45
12:6:695:LEU:HD13	12:6:838:VAL:CG2	2.33	0.45
12:6:802:SER:O	12:6:805:ARG:HG2	2.17	0.45
13:7:14:TYR:CA	13:7:17:LEU:HB2	2.37	0.45
13:7:469:LEU:O	13:7:473:ILE:HG13	2.16	0.45
13:7:85:ILE:HG22	13:7:89:GLN:CD	2.37	0.45
1:A:100:MET:HG2	1:A:117:GLN:HG2	1.98	0.45
1:A:83:LYS:NZ	4:D:199:LEU:HD23	2.32	0.45
2:B:112:PHE:CE1	2:B:155:LYS:HD2	2.52	0.45
3:C:97:LEU:HD13	3:C:105:PHE:CE2	2.50	0.45
4:D:141:ARG:CA	4:D:144:ILE:HG12	2.45	0.45
5:E:240:TYR:O	5:E:241:TYR:HB3	2.17	0.45
5:E:21:SER:OG	5:E:25:CYS:O	2.24	0.45
5:E:292:TYR:O	5:E:296:GLN:HG3	2.16	0.45
5:E:558:GLU:N	5:E:559:SER:CA	2.80	0.45
8:2:425:GLU:O	8:2:456:ILE:HA	2.17	0.44
8:2:522:GLY:HA2	8:2:822:LYS:HZ1	1.82	0.44
8:2:600:ASP:OD1	8:2:643:ARG:N	2.34	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:107:ASP:CB	9:3:110:PHE:HB3	2.47	0.44
9:3:420:ARG:O	9:3:423:LEU:HB3	2.17	0.44
9:3:733:LEU:HA	9:3:736:ALA:CB	2.47	0.44
10:4:359:GLU:HG2	10:4:361:ASP:HB2	1.98	0.44
10:4:415:ILE:HG23	10:4:461:VAL:HG23	1.99	0.44
10:4:603:ALA:HB2	10:4:656:ILE:HG12	1.99	0.44
10:4:635:ASP:OD1	10:4:694:LEU:HD13	2.17	0.44
11:5:242:ILE:HG22	11:5:243:ILE:N	2.32	0.44
11:5:165:ILE:HD12	11:5:262:PRO:CD	2.47	0.44
11:5:455:ARG:HH12	11:5:460:ARG:CD	2.28	0.44
11:5:468:ALA:HA	11:5:471:LEU:CD1	2.47	0.44
12:6:355:ASP:CB	12:6:356:TRP:CB	2.95	0.44
12:6:515:GLU:O	12:6:519:MET:HG3	2.17	0.44
12:6:528:LYS:HD3	12:6:531:ARG:CD	2.47	0.44
12:6:550:GLN:OE1	12:6:679:LEU:HB2	2.17	0.44
13:7:213:ARG:HA	13:7:215:TYR:HD1	1.82	0.44
13:7:568:ASN:O	13:7:585:ASN:ND2	2.49	0.44
2:B:16:ILE:HA	2:B:19:ILE:HD12	1.99	0.44
3:C:135:LEU:HD21	3:C:165:PHE:HE2	1.82	0.44
4:D:169:ILE:HG22	4:D:170:SER:N	2.33	0.44
5:E:272:LEU:HA	5:E:275:LEU:HB2	1.98	0.44
5:E:399:TYR:HB2	5:E:401:LEU:CD1	2.47	0.44
5:E:413:LEU:CD2	5:E:416:ARG:HB2	2.47	0.44
8:2:204:SER:HA	8:2:207:ILE:CG1	2.46	0.44
8:2:311:GLU:CB	8:2:314:LEU:HD23	2.46	0.44
8:2:300:PHE:HE2	8:2:317:LEU:O	2.00	0.44
8:2:333:GLN:NE2	8:2:334:LEU:H	2.15	0.44
8:2:339:PHE:HA	8:2:374:ARG:O	2.17	0.44
8:2:338:LYS:CB	8:2:380:THR:HG22	2.48	0.44
8:2:549:LYS:HA	8:2:552:ILE:CD1	2.46	0.44
9:3:171:LEU:HD23	9:3:172:THR:OG1	2.18	0.44
10:4:202:LYS:N	10:4:224:LEU:HB3	2.23	0.44
10:4:552:PHE:HE2	10:4:558:TYR:HH	1.63	0.44
11:5:374:ILE:HA	11:5:428:PHE:CE2	2.52	0.44
11:5:588:GLU:HB3	11:5:593:GLU:HB2	1.98	0.44
12:6:304:LEU:CD1	12:6:304:LEU:N	2.81	0.44
12:6:613:VAL:HB	12:6:622:THR:CB	2.26	0.44
8:2:571:ALA:N	12:6:665:LYS:HE3	2.32	0.44
12:6:776:LYS:HA	12:6:779:GLU:OE2	2.17	0.44
13:7:315:ILE:N	13:7:315:ILE:HD12	2.32	0.44
13:7:534:ARG:O	13:7:538:HIS:N	2.45	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:544:GLN:OE1	13:7:560:ARG:HG2	2.18	0.44
13:7:642:ILE:HG22	13:7:646:LYS:HD2	1.99	0.44
13:7:86:LEU:O	13:7:90:ASN:N	2.45	0.44
1:A:97:LEU:CB	1:A:131:LEU:HD12	2.44	0.44
1:A:162:PHE:C	1:A:163:ILE:HD12	2.38	0.44
2:B:117:TRP:H	2:B:119:TRP:HD1	1.65	0.44
2:B:187:GLU:HB2	3:C:179:LYS:HZ2	1.80	0.44
4:D:143:TYR:CE2	4:D:147:ARG:HD2	2.52	0.44
4:D:256:TYR:CD1	4:D:257:THR:CG2	2.97	0.44
5:E:274:ILE:O	5:E:278:THR:OG1	2.28	0.44
5:E:45:LEU:HD11	5:E:49:PHE:CE1	2.52	0.44
5:E:567:MET:C	5:E:584:LEU:HD12	2.37	0.44
6:F:7:DC:H2''	6:F:8:DG:O4'	2.17	0.44
8:2:318:VAL:HG12	8:2:320:VAL:HG23	1.99	0.44
8:2:386:GLN:HB3	8:2:410:LEU:HB2	1.99	0.44
8:2:562:ARG:HD2	8:2:602:GLY:CA	2.47	0.44
8:2:641:GLN:HB3	8:2:643:ARG:NH2	2.33	0.44
8:2:520:PHE:CD1	8:2:767:ILE:HG22	2.52	0.44
5:E:532:ASP:HB2	8:2:781:MET:HE1	1.98	0.44
9:3:317:PHE:O	9:3:319:THR:HG23	2.17	0.44
9:3:32:LEU:CD2	9:3:38:TYR:HB2	2.46	0.44
9:3:360:PHE:HA	9:3:363:LEU:CD1	2.48	0.44
9:3:470:VAL:HG21	9:3:512:VAL:HG22	1.99	0.44
10:4:447:ASN:ND2	10:4:447:ASN:O	2.43	0.44
10:4:682:TYR:CA	10:4:691:ASN:HD21	2.31	0.44
10:4:642:ARG:NH2	10:4:694:LEU:HD11	2.32	0.44
10:4:872:VAL:O	10:4:876:GLN:N	2.48	0.44
11:5:155:HIS:O	11:5:158:LYS:HB2	2.17	0.44
11:5:38:PHE:HE2	11:5:45:ILE:HG12	1.81	0.44
11:5:662:SER:OG	11:5:663:LEU:N	2.51	0.44
12:6:404:VAL:CG1	12:6:405:PRO:HD2	2.41	0.44
10:4:342:MET:CE	12:6:448:LEU:HD22	2.47	0.44
12:6:796:THR:HG21	12:6:798:ARG:HB3	2.00	0.44
13:7:121:ILE:HA	13:7:124:ASN:OD1	2.16	0.44
9:3:195:LYS:CB	13:7:371:LEU:HA	2.47	0.44
13:7:411:TYR:CD2	13:7:430:LYS:HE2	2.52	0.44
13:7:493:LEU:CA	13:7:512:ALA:HB3	2.39	0.44
1:A:21:ALA:N	1:A:23:SER:HB3	2.32	0.44
1:A:75:THR:O	1:A:79:MET:HG2	2.17	0.44
2:B:158:LYS:O	2:B:161:LYS:HG2	2.16	0.44
2:B:52:LEU:HB2	4:D:125:PRO:CB	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:53:ILE:HA	3:C:56:ILE:HG12	1.95	0.44
4:D:133:LEU:C	4:D:133:LEU:HD23	2.38	0.44
2:B:193:ARG:CB	4:D:227:PHE:HE2	2.30	0.44
5:E:131:LEU:HD22	5:E:237:LEU:HD11	1.99	0.44
5:E:126:HIS:HA	5:E:247:VAL:HA	2.00	0.44
5:E:520:LYS:HB2	5:E:527:LEU:CD2	2.48	0.44
6:F:23:DT:OP2	6:F:23:DT:C6	2.70	0.44
8:2:591:LEU:C	8:2:591:LEU:HD23	2.38	0.44
8:2:671:GLU:HA	8:2:674:LEU:HB3	2.00	0.44
9:3:272:ARG:HD3	11:5:171:VAL:HG22	2.00	0.44
9:3:676:ILE:HA	9:3:679:ILE:CG1	2.47	0.44
10:4:204:LYS:HB3	10:4:250:ALA:O	2.17	0.44
10:4:202:LYS:CA	10:4:224:LEU:HA	2.48	0.44
10:4:527:ALA:HB3	10:4:537:LYS:HZ3	1.81	0.44
11:5:155:HIS:C	11:5:298:TYR:HB3	2.38	0.44
11:5:181:ILE:O	11:5:190:THR:OG1	2.25	0.44
11:5:464:LEU:CD2	11:5:466:GLY:HA2	2.46	0.44
11:5:407:ARG:HD2	11:5:498:GLU:HA	1.99	0.44
11:5:65:MET:HA	11:5:68:LEU:CG	2.47	0.44
12:6:298:SER:N	12:6:358:LYS:O	2.50	0.44
13:7:360:TYR:HE2	13:7:364:LYS:H	1.64	0.44
13:7:619:VAL:HG21	13:7:625:GLN:HE21	1.82	0.44
13:7:692:ILE:HA	13:7:695:LEU:CD1	2.47	0.44
1:A:139:THR:CG2	1:A:142:LYS:HZ3	2.29	0.44
1:A:18:GLN:HA	1:A:21:ALA:HB3	1.99	0.44
1:A:162:PHE:HE1	1:A:192:ARG:HB3	1.83	0.44
1:A:77:LEU:HD21	3:C:53:ILE:HD11	2.00	0.44
1:A:78:CYS:O	1:A:81:ARG:HB3	2.17	0.44
2:B:145:ILE:HD12	2:B:146:GLN:N	2.32	0.44
2:B:169:GLN:HA	4:D:275:TYR:HD1	1.83	0.44
4:D:124:LEU:N	4:D:124:LEU:HD12	2.33	0.44
5:E:330:ARG:CZ	5:E:418:SER:HB2	2.46	0.44
5:E:57:GLN:CG	5:E:59:VAL:HG23	2.47	0.44
6:F:9:DA:H2"	6:F:10:DT:C7	2.47	0.44
8:2:227:TYR:OH	8:2:244:VAL:HG13	2.18	0.44
8:2:293:ILE:HG22	8:2:294:HIS:N	2.31	0.44
8:2:340:ASN:HB3	8:2:376:ASN:CB	2.46	0.44
9:3:502:ILE:HD12	9:3:502:ILE:H	1.83	0.44
10:4:211:GLU:HG3	10:4:212:ARG:H	1.83	0.44
10:4:193:ASN:HD21	10:4:253:GLN:HB3	1.83	0.44
10:4:275:THR:O	10:4:279:CYS:N	2.40	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:314:MET:SD	10:4:415:ILE:HG12	2.57	0.44
10:4:641:THR:HG22	10:4:642:ARG:N	2.32	0.44
10:4:686:LEU:O	10:4:838:THR:HG21	2.18	0.44
8:2:625:GLU:OE2	11:5:423:SER:HB2	2.16	0.44
12:6:134:LYS:HZ2	12:6:137:ARG:CD	2.29	0.44
12:6:379:VAL:HG21	12:6:456:ALA:HB2	1.99	0.44
12:6:709:PHE:HB2	12:6:712:PHE:HE1	1.82	0.44
13:7:441:ASP:N	13:7:452:GLY:HA2	2.32	0.44
13:7:497:VAL:HG22	13:7:508:LEU:HD11	1.99	0.44
13:7:479:ARG:CB	13:7:519:GLY:HA3	2.47	0.44
9:3:687:ARG:HB3	13:7:604:PRO:HB3	2.00	0.44
2:B:11:PHE:HB2	2:B:179:ASN:HD21	1.83	0.44
3:C:27:LEU:HD13	3:C:33:ASN:O	2.17	0.44
4:D:124:LEU:HB2	4:D:125:PRO:CD	2.46	0.44
4:D:194:VAL:HG23	4:D:198:ILE:HG12	2.00	0.44
5:E:290:ARG:C	5:E:293:PRO:HD2	2.38	0.44
5:E:478:TRP:HA	5:E:481:TRP:HB3	2.00	0.44
5:E:548:LEU:O	5:E:552:LEU:N	2.50	0.44
6:F:3:DC:H2''	6:F:4:DG:C5'	2.47	0.44
8:2:490:ASP:HB3	8:2:493:ILE:CG2	2.47	0.44
8:2:573:ALA:HA	8:2:574:VAL:HA	1.28	0.44
8:2:676:ARG:NH2	14:5:801:ATP:O3B	2.50	0.44
9:3:169:ARG:HG3	9:3:272:ARG:HH21	1.82	0.44
9:3:172:THR:HA	9:3:175:HIS:N	2.32	0.44
9:3:179:LEU:HD23	9:3:179:LEU:C	2.38	0.44
9:3:359:ILE:O	9:3:362:ILE:HB	2.18	0.44
10:4:338:VAL:HG11	10:4:393:ASP:CG	2.38	0.44
10:4:646:HIS:CE1	10:4:698:LEU:HD13	2.53	0.44
11:5:97:VAL:HG13	11:5:100:ARG:HD2	2.00	0.44
9:3:272:ARG:CD	11:5:171:VAL:HG22	2.48	0.44
11:5:612:PRO:HA	11:5:670:PRO:O	2.18	0.44
11:5:419:GLY:HA2	14:5:801:ATP:H5'2	1.99	0.44
11:5:87:ILE:HB	11:5:88:PRO:HD3	2.00	0.44
12:6:282:GLU:H	12:6:282:GLU:CD	2.18	0.44
12:6:416:LYS:HB3	12:6:448:LEU:O	2.17	0.44
12:6:638:ILE:CG2	12:6:639:ASP:H	2.24	0.44
12:6:749:GLU:HA	12:6:752:ARG:CZ	2.47	0.44
13:7:279:THR:O	13:7:279:THR:HG23	2.18	0.44
13:7:372:THR:O	13:7:373:GLU:HB3	2.18	0.44
1:A:174:ILE:HD12	1:A:174:ILE:O	2.17	0.44
1:A:192:ARG:O	1:A:196:VAL:HG23	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:41:LEU:HD13	4:D:201:TYR:CD2	2.52	0.44
1:A:77:LEU:CD2	3:C:53:ILE:HD11	2.48	0.44
2:B:112:PHE:CD1	2:B:155:LYS:HD2	2.53	0.44
2:B:178:ILE:HA	2:B:181:LEU:HG	1.99	0.44
2:B:183:PRO:HG3	3:C:183:SER:HB3	1.99	0.44
2:B:77:LEU:HD23	2:B:77:LEU:O	2.18	0.44
2:B:94:THR:HG21	2:B:96:LYS:NZ	2.33	0.44
2:B:195:ILE:HD13	3:C:125:SER:HB2	2.00	0.44
4:D:232:VAL:HA	4:D:291:VAL:HA	1.99	0.44
4:D:269:LEU:CD1	4:D:275:TYR:HD2	2.22	0.44
5:E:44:MET:CE	5:E:255:ILE:HG22	2.47	0.44
5:E:369:PRO:HD3	8:2:289:ILE:HD11	2.00	0.44
5:E:296:GLN:HA	5:E:409:PHE:CZ	2.53	0.44
5:E:527:LEU:HG	5:E:568:VAL:CG1	2.48	0.44
5:E:97:GLU:HA	5:E:98:ILE:C	2.37	0.44
6:F:20:DT:H2"	6:F:21:DT:C5	2.53	0.44
8:2:219:THR:HG22	8:2:225:SER:N	2.33	0.44
8:2:296:ARG:HH21	8:2:413:ASP:HB2	1.83	0.44
8:2:310:ARG:O	8:2:313:ASN:N	2.50	0.44
8:2:502:ALA:HB1	8:2:505:ILE:HG13	1.98	0.44
8:2:526:ASN:HA	8:2:532:SER:CB	2.48	0.44
8:2:786:VAL:HA	8:2:789:VAL:HB	1.98	0.44
8:2:843:ASP:CA	8:2:846:VAL:HB	2.43	0.44
9:3:329:LEU:HA	9:3:339:ARG:HH21	1.82	0.44
9:3:330:HIS:NE2	9:3:427:SER:HB2	2.32	0.44
9:3:406:LEU:HA	9:3:514:ALA:O	2.17	0.44
10:4:315:ARG:NH2	13:7:250:ASP:HA	2.32	0.44
11:5:97:VAL:HA	11:5:100:ARG:CD	2.48	0.44
9:3:553:ILE:CD1	11:5:630:ARG:HD2	2.47	0.44
12:6:114:ALA:O	12:6:118:PHE:HB2	2.17	0.44
12:6:182:GLN:CD	12:6:182:GLN:H	2.19	0.44
12:6:587:TYR:HD2	12:6:588:VAL:CG2	2.31	0.44
12:6:653:HIS:CD2	12:6:704:PRO:HB2	2.52	0.44
13:7:73:ARG:HH21	13:7:132:ILE:HA	1.81	0.44
13:7:118:CYS:SG	13:7:202:LEU:HD13	2.58	0.44
13:7:648:LYS:HE2	13:7:704:LEU:HD22	1.98	0.44
1:A:164:ASP:O	1:A:207:LYS:NZ	2.49	0.44
1:A:173:GLU:HB3	1:A:182:ASN:CA	2.48	0.44
1:A:5:LEU:HG	1:A:36:ILE:HD11	1.98	0.44
2:B:87:ILE:HG21	2:B:130:ALA:CB	2.48	0.44
2:B:146:GLN:OE1	2:B:149:ARG:HD3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:135:LEU:HA	3:C:138:HIS:CD2	2.38	0.44
2:B:11:PHE:HD1	4:D:71:ARG:NH1	2.16	0.44
4:D:76:LEU:O	4:D:77:LEU:HD23	2.17	0.44
5:E:285:ALA:CA	5:E:288:TYR:HB3	2.48	0.44
5:E:430:ALA:HA	5:E:433:GLU:OE2	2.17	0.44
5:E:58:ILE:HG22	5:E:478:TRP:HH2	1.83	0.44
5:E:71:TYR:CE2	5:E:96:LEU:HD13	2.52	0.44
8:2:495:ASP:OD1	8:2:509:ARG:NH2	2.47	0.44
8:2:541:LEU:HD21	8:2:543:GLY:HA2	2.00	0.44
8:2:600:ASP:OD2	8:2:601:LYS:NZ	2.40	0.44
8:2:767:ILE:HG13	8:2:768:HIS:N	2.33	0.44
8:2:846:VAL:HG11	8:2:857:LEU:HD23	2.00	0.44
9:3:119:ALA:CA	9:3:221:LEU:HD22	2.48	0.44
9:3:293:ASN:N	9:3:329:LEU:HD23	2.33	0.44
9:3:33:ASP:HB2	9:3:39:ARG:HH11	1.83	0.44
9:3:446:VAL:HG21	9:3:458:GLU:CB	2.46	0.44
10:4:512:VAL:HG13	10:4:515:ARG:NH1	2.33	0.44
10:4:634:PHE:CE2	10:4:702:PHE:HZ	2.36	0.44
10:4:727:LEU:H	10:4:728:TYR:HB3	1.83	0.44
11:5:305:ASN:N	11:5:305:ASN:ND2	2.63	0.44
5:E:415:TYR:CE1	11:5:38:PHE:HD1	2.35	0.44
11:5:525:PRO:HB3	11:5:539:ASN:HD21	1.81	0.44
11:5:412:VAL:HG22	11:5:552:MET:HB2	2.00	0.44
11:5:667:GLU:O	11:5:668:LEU:HB3	2.17	0.44
12:6:365:ALA:O	12:6:368:ILE:HG13	2.18	0.44
9:3:245:TYR:CB	13:7:236:GLY:HA3	2.48	0.44
9:3:466:ASP:HB3	13:7:324:VAL:O	2.18	0.44
13:7:458:LEU:HD23	13:7:598:PHE:HB2	2.00	0.44
13:7:603:ILE:HG23	13:7:604:PRO:HD2	2.00	0.44
2:B:27:ILE:HD12	2:B:85:CYS:HB2	2.00	0.44
3:C:75:LEU:HD23	3:C:76:PRO:N	2.32	0.44
3:C:86:ASN:HA	3:C:89:LYS:CD	2.48	0.44
4:D:144:ILE:HG13	4:D:145:ARG:H	1.80	0.44
5:E:231:HIS:O	5:E:235:GLY:N	2.43	0.44
5:E:324:TYR:CE1	5:E:405:ILE:HG23	2.53	0.44
5:E:381:ASP:O	5:E:385:LYS:HG2	2.18	0.44
5:E:580:LEU:C	5:E:580:LEU:HD23	2.38	0.44
5:E:59:VAL:HG12	5:E:61:ILE:HD12	1.98	0.44
8:2:242:LEU:HD22	8:2:295:VAL:CG1	2.46	0.44
8:2:410:LEU:HB3	8:2:415:VAL:HG22	1.98	0.44
8:2:528:ASN:HA	8:2:529:GLY:HA2	1.59	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:565:PHE:CE2	8:2:567:THR:HB	2.53	0.44
8:2:617:ARG:CG	8:2:620:ILE:HD12	2.32	0.44
9:3:25:VAL:HG22	9:3:124:PRO:O	2.18	0.44
9:3:374:HIS:CB	9:3:377:ILE:HD12	2.44	0.44
9:3:475:PHE:CB	9:3:514:ALA:HB1	2.46	0.44
10:4:519:TYR:CE1	10:4:808:HIS:HD2	2.36	0.44
11:5:530:TYR:CD1	11:5:533:LEU:HD12	2.50	0.44
11:5:546:ILE:HG22	11:5:550:PHE:CZ	2.53	0.44
12:6:122:PHE:N	12:6:134:LYS:HE2	2.33	0.44
12:6:364:ASN:OD1	12:6:394:ARG:NH1	2.51	0.44
13:7:415:ALA:HB1	13:7:430:LYS:HD2	2.00	0.44
1:A:10:VAL:HG21	3:C:9:VAL:CG1	2.48	0.44
1:A:175:GLN:CG	1:A:181:PHE:H	2.29	0.44
2:B:99:ASP:HA	2:B:102:ILE:HG12	2.00	0.44
2:B:89:ALA:HB2	2:B:134:PHE:CD1	2.53	0.44
4:D:202:MET:SD	4:D:207:GLN:HA	2.58	0.44
5:E:348:LEU:HB2	5:E:350:LEU:HD21	2.00	0.44
5:E:362:MET:HE1	5:E:396:LEU:HD13	2.00	0.44
8:2:235:GLY:HA2	8:2:283:TYR:CE2	2.53	0.43
8:2:286:TYR:CD1	8:2:289:ILE:HB	2.53	0.43
8:2:390:LEU:HB3	8:2:408:VAL:CG2	2.48	0.43
8:2:501:MET:HB3	8:2:512:LYS:HD3	1.98	0.43
8:2:540:LEU:HB3	8:2:679:ILE:O	2.18	0.43
8:2:701:ASP:O	8:2:704:VAL:HB	2.18	0.43
9:3:303:ALA:HB1	9:3:307:ASN:HB2	1.96	0.43
9:3:362:ILE:CG2	9:3:651:VAL:HG22	2.48	0.43
9:3:404:ASN:C	9:3:405:ILE:HD12	2.38	0.43
9:3:456:ARG:HB2	9:3:456:ARG:CZ	2.47	0.43
9:3:495:VAL:O	9:3:505:THR:HG23	2.18	0.43
9:3:683:TYR:HA	9:3:686:LEU:HG	2.00	0.43
10:4:347:PHE:HA	10:4:383:SER:O	2.18	0.43
10:4:387:ASN:HB2	12:6:175:TYR:CE2	2.52	0.43
10:4:399:LEU:HD23	10:4:399:LEU:C	2.39	0.43
10:4:546:GLY:HA3	10:4:562:ILE:HD11	1.99	0.43
10:4:604:TYR:O	10:4:605:ILE:HG22	2.18	0.43
11:5:570:ASN:OD1	11:5:574:ASN:ND2	2.50	0.43
11:5:86:ILE:HG12	11:5:89:LEU:HD12	2.00	0.43
12:6:511:ASP:HA	12:6:514:ASN:ND2	2.33	0.43
12:6:550:GLN:HG3	12:6:571:ILE:CD1	2.48	0.43
12:6:738:ARG:NH1	12:6:740:GLU:HB2	2.33	0.43
13:7:227:VAL:HA	13:7:230:ILE:CD1	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:21:ILE:HG22	13:7:25:LEU:HD11	1.99	0.43
13:7:398:GLU:O	13:7:401:VAL:HB	2.18	0.43
1:A:22:ARG:CB	1:A:23:SER:CA	2.93	0.43
1:A:38:ARG:HA	1:A:41:LEU:HD12	1.99	0.43
2:B:72:VAL:HG13	2:B:75:ILE:HG23	2.00	0.43
2:B:79:LEU:O	2:B:84:LYS:N	2.42	0.43
2:B:7:LEU:N	2:B:8:GLN:CA	2.79	0.43
4:D:191:LEU:CA	4:D:194:VAL:HG12	2.36	0.43
4:D:79:TYR:CD1	4:D:80:PRO:HD2	2.52	0.43
5:E:154:GLU:CD	5:E:240:TYR:HB2	2.38	0.43
5:E:325:TYR:CD2	5:E:404:ILE:HA	2.39	0.43
5:E:410:VAL:HG13	5:E:419:ILE:C	2.38	0.43
5:E:426:GLU:HA	5:E:429:THR:CG2	2.48	0.43
5:E:575:ASN:HB2	5:E:578:THR:CG2	2.48	0.43
6:F:22:DT:H2'	6:F:23:DT:C4	2.53	0.43
8:2:212:LYS:HD3	8:2:212:LYS:HA	1.79	0.43
8:2:356:ASN:O	11:5:321:VAL:HG21	2.17	0.43
8:2:477:THR:HB	8:2:480:GLU:HG3	1.99	0.43
8:2:515:VAL:O	8:2:519:LEU:HB3	2.17	0.43
8:2:533:ILE:HG22	8:2:534:ARG:N	2.33	0.43
8:2:576:LEU:HD12	8:2:616:ASP:OD2	2.19	0.43
9:3:164:HIS:CD2	9:3:180:VAL:HG22	2.54	0.43
9:3:195:LYS:HB2	13:7:371:LEU:HD12	2.00	0.43
9:3:223:THR:OG1	11:5:244:ILE:HG23	2.17	0.43
9:3:30:GLU:CD	9:3:30:GLU:H	2.21	0.43
9:3:529:PRO:O	9:3:532:ASN:HB3	2.19	0.43
9:3:683:TYR:O	9:3:686:LEU:HB2	2.18	0.43
10:4:234:ARG:HB2	10:4:291:TYR:CE2	2.49	0.43
10:4:261:LEU:HD21	10:4:325:LEU:HD12	2.00	0.43
10:4:635:ASP:HA	10:4:694:LEU:CD1	2.48	0.43
10:4:804:LEU:O	10:4:807:ALA:HB3	2.18	0.43
10:4:825:ALA:O	10:4:829:ILE:HG13	2.18	0.43
11:5:97:VAL:HA	11:5:100:ARG:HD2	2.01	0.43
11:5:243:ILE:H	11:5:243:ILE:HG13	1.69	0.43
12:6:137:ARG:HA	12:6:140:ILE:HD12	1.99	0.43
12:6:703:ALA:O	12:6:706:MET:HB3	2.18	0.43
13:7:114:THR:HG22	13:7:204:PHE:HE2	1.83	0.43
13:7:118:CYS:O	13:7:121:ILE:HG13	2.18	0.43
13:7:147:ARG:HA	13:7:150:ASN:HB3	2.00	0.43
13:7:402:MET:CG	13:7:405:ILE:HD12	2.48	0.43
10:4:727:LEU:HD22	13:7:444:VAL:HB	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:57:ASP:O	2:B:58:LYS:HB3	2.18	0.43
2:B:5:ALA:N	2:B:8:GLN:OE1	2.51	0.43
3:C:120:LEU:HD12	3:C:120:LEU:C	2.39	0.43
3:C:75:LEU:HD23	3:C:76:PRO:O	2.17	0.43
4:D:123:LYS:HG3	4:D:126:LEU:CD1	2.39	0.43
4:D:259:THR:OG1	4:D:266:GLU:HA	2.18	0.43
5:E:311:LYS:H	5:E:312:THR:HA	1.81	0.43
5:E:31:VAL:HB	5:E:60:PRO:CA	2.26	0.43
8:2:258:LEU:HA	8:2:261:ALA:HB3	1.98	0.43
8:2:479:GLU:HA	8:2:482:ARG:HD2	1.95	0.43
8:2:518:SER:OG	8:2:537:ILE:HB	2.18	0.43
8:2:574:VAL:CB	12:6:664:ALA:HB3	2.48	0.43
8:2:574:VAL:CG2	8:2:575:GLY:H	2.09	0.43
8:2:810:LEU:O	8:2:813:ILE:HG12	2.19	0.43
9:3:114:ILE:O	9:3:118:PRO:HB3	2.18	0.43
9:3:404:ASN:HB2	9:3:490:MET:HE3	1.99	0.43
9:3:420:ARG:HD3	9:3:423:LEU:HD13	2.01	0.43
10:4:180:ILE:HG21	10:4:267:GLU:OE1	2.19	0.43
10:4:372:GLU:O	10:4:372:GLU:HG2	2.18	0.43
10:4:371:CYS:SG	10:4:372:GLU:N	2.91	0.43
10:4:563:ASN:CG	10:4:671:ILE:HB	2.38	0.43
10:4:581:VAL:HA	10:4:584:ILE:CG1	2.45	0.43
10:4:647:GLU:HG2	10:4:653:THR:O	2.17	0.43
10:4:801:MET:HG2	10:4:829:ILE:CD1	2.48	0.43
11:5:179:LEU:HD13	11:5:181:ILE:CD1	2.47	0.43
11:5:320:GLY:HA2	11:5:321:VAL:C	2.37	0.43
11:5:369:ILE:CG2	11:5:594:ILE:HD11	2.40	0.43
11:5:654:GLU:O	11:5:657:ILE:HB	2.18	0.43
12:6:122:PHE:HB3	12:6:134:LYS:HD2	2.01	0.43
12:6:143:MET:CE	12:6:150:THR:HG22	2.46	0.43
12:6:569:ILE:HG13	12:6:570:ASN:N	2.33	0.43
12:6:608:LEU:N	12:6:627:ALA:HB3	2.33	0.43
14:2:901:ATP:O2G	12:6:653:HIS:CE1	2.72	0.43
12:6:710:ASP:HA	12:6:711:LEU:HA	1.70	0.43
12:6:807:SER:HA	12:6:810:ILE:HD12	2.01	0.43
13:7:548:ILE:HD12	13:7:548:ILE:N	2.33	0.43
13:7:557:LEU:C	13:7:557:LEU:HD12	2.39	0.43
1:A:159:SER:HA	1:A:160:ASP:HA	1.68	0.43
2:B:12:SER:O	2:B:15:GLU:HB2	2.19	0.43
2:B:141:LEU:O	2:B:145:ILE:HG23	2.19	0.43
2:B:193:ARG:HG2	2:B:193:ARG:HH11	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:75:ILE:HG13	2:B:76:ALA:N	2.31	0.43
5:E:164:GLU:O	5:E:165:LEU:HG	2.18	0.43
5:E:539:TYR:HA	5:E:544:THR:CG2	2.46	0.43
5:E:528:CYS:HB2	5:E:568:VAL:O	2.18	0.43
5:E:624:ASN:ND2	5:E:630:ILE:HA	2.33	0.43
6:F:5:DA:H2'	6:F:6:DT:H72	2.00	0.43
8:2:327:ARG:CZ	8:2:420:PRO:HD3	2.48	0.43
8:2:522:GLY:HA2	8:2:822:LYS:NZ	2.33	0.43
8:2:855:ARG:CZ	8:2:855:ARG:HB2	2.48	0.43
9:3:194:PRO:HG2	13:7:373:GLU:CA	2.48	0.43
9:3:299:LYS:HG3	9:3:322:LEU:CG	2.47	0.43
10:4:343:LYS:HE2	10:4:392:ALA:CB	2.48	0.43
10:4:750:TYR:HA	10:4:753:TYR:HB3	2.00	0.43
11:5:388:ILE:O	11:5:392:LEU:HG	2.18	0.43
11:5:51:ARG:HA	11:5:54:ILE:HG13	2.00	0.43
11:5:536:PRO:CG	11:5:643:ARG:HD3	2.47	0.43
12:6:182:GLN:O	12:6:186:ARG:HG3	2.17	0.43
12:6:288:LEU:H	12:6:399:GLY:CA	2.13	0.43
12:6:294:VAL:HG11	12:6:391:PRO:HA	1.99	0.43
10:4:661:ILE:HD11	12:6:391:PRO:HB3	2.00	0.43
13:7:643:ALA:HA	13:7:646:LYS:CB	2.45	0.43
1:A:164:ASP:OD1	1:A:190:PHE:HD1	2.01	0.43
1:A:72:TYR:O	1:A:76:LEU:HB3	2.18	0.43
4:D:161:LEU:HD21	4:D:168:LEU:O	2.18	0.43
4:D:259:THR:CG2	4:D:268:GLU:HB3	2.48	0.43
5:E:43:LYS:CA	5:E:46:SER:HB3	2.34	0.43
5:E:432:LEU:HD13	5:E:543:LEU:CD1	2.49	0.43
5:E:567:MET:HB2	5:E:584:LEU:HD13	2.01	0.43
8:2:286:TYR:CE1	8:2:289:ILE:HB	2.54	0.43
8:2:481:GLU:C	8:2:484:PHE:HB3	2.38	0.43
8:2:671:GLU:N	8:2:672:PRO:CD	2.82	0.43
8:2:548:ALA:N	14:2:901:ATP:C8	2.87	0.43
9:3:189:THR:HA	9:3:256:ILE:CB	2.48	0.43
9:3:291:ARG:NH2	9:3:331:ALA:O	2.51	0.43
9:3:536:PRO:HA	9:3:537:ASP:HA	1.67	0.43
10:4:342:MET:HB3	10:4:360:ILE:CD1	2.48	0.43
10:4:315:ARG:HG2	10:4:410:GLN:CD	2.38	0.43
10:4:445:ARG:HG2	10:4:453:LEU:HD23	2.01	0.43
10:4:462:ASP:O	10:4:463:VAL:HG22	2.18	0.43
10:4:594:LYS:HD3	10:4:636:LYS:HG2	2.00	0.43
10:4:696:PRO:HG2	10:4:697:PRO:CD	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:139:LEU:O	11:5:139:LEU:HD12	2.19	0.43
5:E:379:TYR:HE2	11:5:143:ALA:HB3	1.83	0.43
11:5:169:THR:HG22	11:5:256:LEU:HA	2.00	0.43
11:5:148:LEU:CD2	11:5:260:GLU:HB3	2.44	0.43
11:5:400:LEU:HB2	11:5:401:PRO:HD2	2.01	0.43
11:5:596:ILE:HG22	11:5:596:ILE:O	2.18	0.43
11:5:367:TYR:HD1	11:5:666:LEU:CD1	2.30	0.43
11:5:673:GLN:OE1	11:5:676:HIS:HB2	2.19	0.43
12:6:294:VAL:HB	12:6:392:GLY:H	1.83	0.43
8:2:404:ARG:NH2	12:6:299:GLU:HA	2.34	0.43
12:6:326:LYS:CB	12:6:327:TYR:CA	2.97	0.43
12:6:297:THR:HG22	12:6:391:PRO:HG3	2.01	0.43
13:7:260:TYR:HB3	13:7:298:LEU:HB2	1.99	0.43
13:7:411:TYR:O	13:7:415:ALA:HB2	2.18	0.43
13:7:416:LYS:HD2	13:7:426:LEU:HD12	1.99	0.43
13:7:605:SER:O	13:7:609:ASP:N	2.31	0.43
13:7:628:LEU:N	13:7:629:ASP:CA	2.79	0.43
13:7:63:TYR:HD1	13:7:66:MET:CE	2.32	0.43
1:A:202:GLN:HB3	1:A:204:TYR:CD2	2.50	0.43
3:C:115:PHE:CE2	3:C:117:GLU:HB2	2.54	0.43
5:E:5:ILE:N	5:E:142:CYS:O	2.51	0.43
5:E:288:TYR:HA	5:E:291:LEU:CD1	2.47	0.43
5:E:41:ALA:HA	5:E:44:MET:CG	2.49	0.43
5:E:566:PRO:N	5:E:586:PRO:HD3	2.33	0.43
8:2:305:SER:HA	8:2:321:THR:CG2	2.47	0.43
8:2:508:HIS:HB2	8:2:511:ILE:CB	2.48	0.43
8:2:784:ASP:O	8:2:787:SER:OG	2.29	0.43
8:2:816:ILE:CG2	8:2:837:ALA:HA	2.49	0.43
8:2:816:ILE:O	8:2:819:SER:OG	2.30	0.43
8:2:834:LEU:HA	8:2:837:ALA:HB3	2.00	0.43
9:3:360:PHE:HZ	9:3:379:LYS:HB3	1.81	0.43
10:4:261:LEU:HD23	10:4:261:LEU:C	2.39	0.43
10:4:346:PHE:CG	10:4:388:ARG:HB2	2.54	0.43
10:4:503:ASP:HA	10:4:506:LEU:HD12	2.01	0.43
10:4:608:ASP:HB2	10:4:615:VAL:HG21	2.01	0.43
10:4:794:THR:HG21	10:4:796:ARG:HB3	1.99	0.43
10:4:806:GLU:O	10:4:809:ALA:HB3	2.19	0.43
11:5:33:ASN:CB	11:5:37:GLU:HG3	2.48	0.43
12:6:117:GLN:O	12:6:120:GLU:HB2	2.19	0.43
12:6:398:THR:HB	12:6:457:CYS:SG	2.58	0.43
12:6:459:VAL:HG12	12:6:460:ILE:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:755:ILE:O	12:6:759:ARG:N	2.49	0.43
13:7:357:PRO:CB	13:7:374:THR:HA	2.49	0.43
13:7:704:LEU:O	13:7:706:ASP:N	2.50	0.43
13:7:73:ARG:HG2	13:7:199:ARG:NH2	2.34	0.43
1:A:47:LEU:HD21	1:A:75:THR:CB	2.15	0.43
3:C:134:GLU:O	3:C:137:HIS:N	2.50	0.43
4:D:214:GLY:HA2	4:D:215:SER:HA	1.30	0.43
5:E:150:ASP:HB2	5:E:152:LEU:HB2	2.00	0.43
8:2:388:VAL:HG21	8:2:410:LEU:HD11	2.00	0.43
8:2:667:VAL:HG21	8:2:669:LEU:HB2	2.01	0.43
8:2:678:ASP:OD1	8:2:679:ILE:N	2.51	0.43
8:2:776:PRO:CD	8:2:822:LYS:HE2	2.45	0.43
9:3:200:VAL:HG12	9:3:244:GLU:OE1	2.18	0.43
9:3:294:VAL:HG22	9:3:326:VAL:CG2	2.48	0.43
10:4:243:LEU:CD2	10:4:244:ASP:H	2.31	0.43
10:4:359:GLU:N	10:4:359:GLU:OE1	2.39	0.43
10:4:344:VAL:CA	10:4:360:ILE:HD12	2.49	0.43
10:4:348:LYS:CB	10:4:383:SER:HB2	2.44	0.43
10:4:501:ILE:HD13	10:4:749:MET:HE3	1.99	0.43
10:4:605:ILE:HG13	10:4:616:LEU:CD1	2.48	0.43
10:4:629:CYS:N	10:4:670:SER:O	2.51	0.43
11:5:179:LEU:HA	11:5:248:SER:OG	2.19	0.43
11:5:32:LYS:HA	11:5:35:ILE:CD1	2.43	0.43
11:5:459:THR:O	11:5:459:THR:HG22	2.19	0.43
11:5:468:ALA:HA	11:5:471:LEU:HG	2.01	0.43
12:6:155:TYR:CZ	12:6:167:ALA:HB1	2.54	0.43
12:6:552:LEU:HD21	12:6:758:ALA:HB3	1.99	0.43
12:6:656:MET:SD	12:6:709:PHE:HE1	2.41	0.43
12:6:776:LYS:HG2	12:6:828:TYR:CD1	2.54	0.43
13:7:245:ILE:HD11	13:7:343:LEU:HD13	2.00	0.43
10:4:456:LEU:CD1	13:7:254:ALA:HB2	2.38	0.43
13:7:412:ASN:O	13:7:415:ALA:HB3	2.18	0.43
13:7:412:ASN:O	13:7:415:ALA:N	2.52	0.43
13:7:414:LEU:HA	13:7:417:SER:OG	2.18	0.43
1:A:139:THR:O	1:A:142:LYS:HB2	2.19	0.43
1:A:49:LYS:HA	1:A:52:GLU:OE2	2.19	0.43
2:B:115:LEU:HD21	2:B:152:ARG:NH2	2.33	0.43
2:B:7:LEU:N	2:B:7:LEU:HD12	2.34	0.43
3:C:95:LEU:C	3:C:95:LEU:HD23	2.38	0.43
4:D:133:LEU:HD23	4:D:134:GLU:N	2.34	0.43
4:D:172:THR:HG21	4:D:177:LYS:HZ1	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:15:ILE:HD12	5:E:18:ASN:HB2	2.01	0.43
5:E:298:GLU:CD	5:E:301:ARG:HD3	2.39	0.43
5:E:376:THR:CG2	5:E:378:LEU:HG	2.48	0.43
5:E:492:LEU:HG	5:E:496:ILE:CG1	2.48	0.43
8:2:332:PRO:O	11:5:323:ILE:HG23	2.19	0.43
8:2:424:VAL:HG23	8:2:457:LYS:O	2.19	0.43
8:2:657:TYR:HE2	8:2:660:THR:HA	1.83	0.43
8:2:706:SER:O	12:6:762:LYS:NZ	2.39	0.43
8:2:476:TRP:HA	8:2:765:LYS:HD2	1.99	0.43
8:2:520:PHE:HE1	8:2:766:TYR:CE2	2.36	0.43
9:3:276:VAL:HG13	9:3:321:ILE:O	2.18	0.43
9:3:353:LEU:CD2	9:3:359:ILE:HD12	2.49	0.43
10:4:256:ASP:O	10:4:260:GLN:N	2.38	0.43
10:4:354:HIS:HB2	10:4:373:ARG:HB2	2.01	0.43
10:4:527:ALA:O	10:4:537:LYS:NZ	2.51	0.43
10:4:747:LEU:O	10:4:751:ILE:N	2.52	0.43
10:4:830:ARG:CA	10:4:833:ILE:HB	2.45	0.43
11:5:167:ILE:HD11	11:5:273:ASN:CB	2.48	0.43
11:5:426:LEU:O	11:5:429:VAL:HB	2.19	0.43
11:5:501:THR:HG22	11:5:514:ASN:HA	2.00	0.43
11:5:546:ILE:N	11:5:546:ILE:HD12	2.31	0.43
12:6:575:GLY:N	12:6:581:LYS:HZ1	2.16	0.43
8:2:399:PRO:CB	12:6:630:LEU:CB	2.97	0.43
12:6:655:ALA:N	12:6:661:ILE:HD11	2.34	0.43
13:7:149:ARG:HG3	13:7:153:MET:CE	2.48	0.43
13:7:414:LEU:HA	13:7:417:SER:HB2	2.00	0.43
13:7:636:SER:HB3	13:7:639:ARG:HH21	1.84	0.43
13:7:82:LEU:C	13:7:207:LEU:HD23	2.38	0.43
1:A:106:GLY:H	1:A:107:LEU:CD1	2.32	0.43
1:A:109:LEU:HG	1:A:111:SER:CB	2.37	0.43
1:A:131:LEU:HA	1:A:134:TYR:HB3	2.00	0.43
2:B:155:LYS:C	2:B:158:LYS:HG2	2.40	0.43
3:C:181:HIS:O	3:C:185:LYS:HG3	2.19	0.43
4:D:133:LEU:CD2	4:D:137:LYS:HE3	2.49	0.43
5:E:285:ALA:HB3	5:E:286:GLN:O	2.19	0.43
5:E:30:PHE:HB2	5:E:83:LEU:HA	2.01	0.43
5:E:553:ILE:HD13	5:E:585:THR:O	2.19	0.43
8:2:255:ILE:CD1	8:2:256:LEU:HG	2.48	0.43
8:2:427:THR:O	8:2:453:ALA:HA	2.18	0.43
8:2:570:GLY:H	8:2:571:ALA:HB2	1.83	0.43
8:2:630:SER:HB2	11:5:444:SER:CB	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:212:ARG:CB	9:3:232:PRO:HG3	2.48	0.43
9:3:389:VAL:HB	9:3:710:THR:CG2	2.45	0.43
9:3:33:ASP:CB	9:3:39:ARG:HH11	2.32	0.43
9:3:463:VAL:HG22	9:3:506:LEU:HD11	2.00	0.43
10:4:188:GLN:C	10:4:190:CYS:N	2.71	0.43
10:4:436:THR:O	10:4:464:VAL:N	2.52	0.43
10:4:517:ASP:O	10:4:520:SER:N	2.45	0.43
10:4:566:LEU:HD12	10:4:566:LEU:C	2.39	0.43
11:5:295:VAL:HG12	11:5:296:GLY:N	2.34	0.43
11:5:373:SER:N	11:5:593:GLU:OE2	2.52	0.43
12:6:174:TYR:HE1	12:6:267:PHE:CE2	2.35	0.43
12:6:292:GLY:CA	12:6:361:ILE:HD11	2.47	0.43
12:6:383:GLY:O	12:6:386:VAL:HG12	2.19	0.43
12:6:584:PHE:O	12:6:587:TYR:HB3	2.18	0.43
12:6:613:VAL:N	12:6:622:THR:O	2.43	0.43
12:6:635:ILE:HA	12:6:677:SER:O	2.18	0.43
13:7:142:ILE:O	13:7:146:ARG:N	2.44	0.43
13:7:223:LYS:HA	13:7:224:PRO:HD2	1.91	0.43
9:3:245:TYR:HB2	13:7:236:GLY:HA3	2.01	0.43
13:7:333:ILE:HA	13:7:376:LEU:O	2.18	0.43
13:7:418:ILE:O	13:7:429:LYS:HD3	2.18	0.43
13:7:718:ARG:HA	13:7:721:ARG:HH11	1.82	0.43
1:A:157:PRO:HB3	2:B:18:PHE:CD1	2.54	0.43
1:A:37:ILE:HG13	1:A:38:ARG:N	2.33	0.43
2:B:10:THR:HB	2:B:182:ARG:HD2	2.00	0.43
2:B:165:GLU:HB2	2:B:166:SER:HA	2.00	0.43
2:B:78:LEU:HD23	2:B:78:LEU:C	2.39	0.43
3:C:48:LEU:HD21	3:C:110:LYS:CD	2.48	0.43
4:D:177:LYS:HA	4:D:180:ILE:CD1	2.49	0.43
5:E:83:LEU:O	5:E:123:LEU:HG	2.19	0.43
5:E:230:ILE:HG22	5:E:234:GLU:CD	2.39	0.43
5:E:361:LYS:O	5:E:364:ALA:HB3	2.19	0.43
8:2:212:LYS:HD2	8:2:215:LEU:HD22	2.00	0.43
8:2:296:ARG:NH2	8:2:413:ASP:HB2	2.34	0.43
8:2:487:ILE:O	8:2:493:ILE:HG21	2.18	0.43
9:3:196:LEU:CD2	9:3:214:TYR:HD2	2.31	0.43
9:3:439:GLY:O	9:3:442:LEU:HD13	2.19	0.43
10:4:202:LYS:N	10:4:224:LEU:HA	2.34	0.43
10:4:317:LEU:O	13:7:341:ARG:NH2	2.51	0.43
10:4:345:ALA:O	10:4:357:ALA:HB1	2.19	0.43
10:4:512:VAL:HG22	10:4:515:ARG:NH1	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:252:ASP:OD1	11:5:253:GLN:N	2.51	0.43
11:5:261:ILE:CG2	11:5:262:PRO:HD2	2.48	0.43
8:2:332:PRO:HG3	11:5:300:ILE:CG1	2.48	0.43
11:5:540:ILE:HG21	11:5:546:ILE:HG21	2.01	0.43
11:5:372:ASN:HB2	11:5:593:GLU:OE2	2.19	0.43
11:5:407:ARG:CZ	11:5:658:ARG:HH22	2.32	0.43
12:6:133:GLU:O	12:6:135:VAL:HB	2.19	0.43
12:6:183:LYS:HA	12:6:186:ARG:CZ	2.49	0.43
12:6:528:LYS:CD	12:6:531:ARG:HD2	2.49	0.43
12:6:551:MET:C	12:6:552:LEU:HD12	2.39	0.43
12:6:656:MET:HG3	12:6:709:PHE:HE1	1.84	0.43
9:3:195:LYS:HG3	13:7:371:LEU:HA	2.01	0.43
13:7:417:SER:O	13:7:420:PRO:HD3	2.18	0.43
2:B:116:PRO:O	2:B:117:TRP:HB3	2.19	0.43
2:B:153:GLN:O	2:B:156:VAL:HB	2.18	0.43
3:C:47:PRO:HB3	3:C:49:TRP:NE1	2.34	0.43
3:C:7:ASP:O	3:C:11:ALA:N	2.52	0.43
4:D:80:PRO:HD3	4:D:143:TYR:OH	2.19	0.43
5:E:125:ALA:HB2	5:E:251:ILE:CG2	2.49	0.43
5:E:129:TRP:HE3	5:E:133:ASN:HD22	1.66	0.43
5:E:63:GLY:O	5:E:66:GLU:HB3	2.19	0.43
5:E:64:TYR:OH	5:E:90:ILE:HD13	2.18	0.43
8:2:248:HIS:O	8:2:251:GLU:HB3	2.19	0.42
8:2:274:VAL:HG22	8:2:277:GLU:OE2	2.19	0.42
8:2:247:ARG:HH22	8:2:301:PRO:CD	2.31	0.42
8:2:327:ARG:HB2	8:2:388:VAL:HG22	2.01	0.42
8:2:348:LEU:O	8:2:348:LEU:HG	2.19	0.42
8:2:340:ASN:CB	8:2:376:ASN:HB3	2.47	0.42
8:2:569:GLN:CG	8:2:570:GLY:H	2.29	0.42
8:2:537:ILE:HG23	8:2:678:ASP:OD1	2.18	0.42
8:2:758:ILE:HG22	8:2:762:LEU:HB2	2.00	0.42
9:3:21:PHE:O	9:3:25:VAL:HG23	2.18	0.42
9:3:411:PRO:O	9:3:412:SER:OG	2.32	0.42
9:3:43:ARG:HA	9:3:46:GLN:CG	2.49	0.42
9:3:485:ALA:O	9:3:488:GLU:HB3	2.19	0.42
9:3:533:ILE:O	9:3:534:ALA:HB3	2.19	0.42
9:3:408:VAL:O	9:3:548:VAL:HA	2.19	0.42
9:3:727:LYS:O	9:3:731:ASN:HB2	2.19	0.42
10:4:202:LYS:H	10:4:224:LEU:HA	1.83	0.42
10:4:517:ASP:OD2	10:4:521:LEU:HB2	2.18	0.42
10:4:679:GLY:HA3	10:4:681:ARG:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:397:LYS:HG3	11:5:399:ILE:HD11	1.99	0.42
11:5:491:VAL:HA	11:5:494:HIS:CD2	2.33	0.42
11:5:540:ILE:CG2	11:5:546:ILE:HB	2.49	0.42
11:5:373:SER:CB	11:5:594:ILE:HB	2.49	0.42
11:5:668:LEU:O	11:5:668:LEU:HD23	2.19	0.42
11:5:95:THR:HA	11:5:98:ALA:HB3	2.00	0.42
12:6:156:GLN:O	12:6:160:MET:HG2	2.19	0.42
12:6:781:ARG:HG2	12:6:795:ILE:CG1	2.48	0.42
13:7:245:ILE:HD12	13:7:347:ASP:HB2	2.00	0.42
13:7:260:TYR:CG	13:7:298:LEU:HD13	2.54	0.42
7:G:5:DA:O4'	13:7:364:LYS:HD2	2.18	0.42
13:7:652:MET:HA	13:7:708:VAL:HG21	1.99	0.42
1:A:15:ARG:NH2	11:5:670:PRO:HG3	2.33	0.42
2:B:107:THR:HG23	2:B:108:HIS:HD1	1.83	0.42
2:B:184:PHE:CE2	2:B:188:ILE:HD11	2.54	0.42
3:C:115:PHE:CD2	3:C:117:GLU:HB2	2.54	0.42
3:C:3:TYR:HE1	4:D:218:MET:HG3	1.84	0.42
4:D:133:LEU:HD21	4:D:137:LYS:NZ	2.34	0.42
4:D:78:PRO:N	4:D:174:LEU:HD12	2.34	0.42
5:E:140:ILE:HD12	5:E:140:ILE:C	2.39	0.42
5:E:13:ASN:CA	5:E:16:LEU:HG	2.45	0.42
5:E:315:THR:CA	5:E:316:LEU:HB3	2.49	0.42
5:E:639:PRO:O	5:E:643:LYS:HG3	2.19	0.42
8:2:227:TYR:CZ	8:2:244:VAL:HG13	2.54	0.42
8:2:500:SER:HA	8:2:757:PRO:CB	2.46	0.42
9:3:189:THR:O	9:3:189:THR:HG22	2.19	0.42
9:3:253:HIS:HB3	13:7:371:LEU:HD13	2.00	0.42
9:3:42:VAL:O	9:3:45:ILE:HB	2.19	0.42
9:3:435:ARG:HA	9:3:436:GLY:HA3	1.48	0.42
9:3:443:THR:CG2	9:3:459:ALA:HA	2.46	0.42
10:4:396:VAL:HA	10:4:417:LEU:O	2.19	0.42
10:4:526:ILE:CD1	10:4:541:LEU:HB2	2.48	0.42
10:4:629:CYS:O	10:4:671:ILE:HA	2.19	0.42
10:4:594:LYS:HG3	10:4:636:LYS:CD	2.49	0.42
11:5:179:LEU:CD1	11:5:192:ILE:HB	2.44	0.42
11:5:408:GLY:HA2	11:5:409:ASP:HA	1.53	0.42
12:6:137:ARG:O	12:6:140:ILE:HB	2.19	0.42
12:6:276:ILE:HA	12:6:279:ILE:HD12	2.01	0.42
12:6:298:SER:OG	12:6:358:LYS:N	2.42	0.42
12:6:528:LYS:HD3	12:6:531:ARG:HD2	2.01	0.42
12:6:533:ILE:HG22	12:6:534:ALA:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:651:ALA:O	12:6:654:GLU:HB2	2.19	0.42
12:6:657:GLU:OE1	12:6:658:GLN:N	2.51	0.42
12:6:661:ILE:N	12:6:672:LEU:O	2.52	0.42
12:6:819:ILE:HG22	12:6:823:PHE:HB2	2.00	0.42
13:7:227:VAL:HA	13:7:230:ILE:HD12	2.01	0.42
13:7:527:ASP:CG	13:7:585:ASN:HB2	2.40	0.42
13:7:86:LEU:HD21	13:7:214:ARG:CD	2.49	0.42
1:A:149:ILE:HD13	4:D:144:ILE:HD13	1.99	0.42
1:A:149:ILE:HG12	4:D:141:ARG:HG2	2.01	0.42
3:C:101:ASN:HB2	3:C:102:SER:CA	2.48	0.42
3:C:77:PRO:HG2	3:C:80:PHE:CD2	2.54	0.42
4:D:230:ILE:HB	4:D:291:VAL:HG22	2.00	0.42
4:D:93:MET:HA	4:D:93:MET:CE	2.49	0.42
5:E:150:ASP:CB	5:E:152:LEU:CB	2.96	0.42
5:E:297:ASP:O	5:E:301:ARG:N	2.50	0.42
5:E:502:LEU:CD1	5:E:547:ARG:HH22	2.32	0.42
5:E:567:MET:O	5:E:584:LEU:HD12	2.19	0.42
8:2:268:LEU:HD11	8:2:297:ILE:HD11	2.01	0.42
8:2:338:LYS:HD2	8:2:347:ILE:HG21	2.00	0.42
8:2:548:ALA:O	8:2:551:GLN:HB3	2.19	0.42
8:2:551:GLN:O	8:2:554:LYS:HB3	2.19	0.42
9:3:24:ARG:HA	9:3:27:ARG:HB3	2.01	0.42
9:3:390:GLU:OE2	9:3:398:HIS:HB2	2.19	0.42
9:3:476:ASP:N	9:3:476:ASP:OD1	2.52	0.42
10:4:508:LYS:HB3	10:4:746:PHE:CZ	2.54	0.42
10:4:693:ASP:CG	10:4:694:LEU:N	2.71	0.42
10:4:797:GLN:O	10:4:801:MET:HG3	2.20	0.42
11:5:254:GLN:HB3	11:5:256:LEU:CD1	2.48	0.42
11:5:400:LEU:HD12	11:5:400:LEU:C	2.39	0.42
11:5:622:LEU:HD21	11:5:677:VAL:HG12	1.99	0.42
12:6:130:GLY:CA	12:6:131:GLU:CB	2.93	0.42
12:6:166:LEU:O	12:6:170:ILE:HG13	2.19	0.42
12:6:186:ARG:HA	12:6:189:VAL:CB	2.49	0.42
12:6:272:THR:HG22	12:6:273:VAL:N	2.34	0.42
12:6:651:ALA:HA	12:6:654:GLU:CD	2.40	0.42
12:6:721:GLU:O	12:6:725:THR:HG23	2.18	0.42
12:6:802:SER:HA	12:6:805:ARG:CG	2.36	0.42
12:6:805:ARG:HA	12:6:808:GLU:CB	2.47	0.42
12:6:808:GLU:O	12:6:812:ARG:HG2	2.19	0.42
13:7:223:LYS:O	13:7:225:LEU:HG	2.19	0.42
13:7:688:THR:O	13:7:692:ILE:N	2.39	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:35:ASP:N	1:A:35:ASP:OD1	2.52	0.42
2:B:54:THR:HG22	2:B:55:THR:N	2.34	0.42
2:B:77:LEU:HD23	2:B:77:LEU:C	2.38	0.42
2:B:95:THR:HG23	2:B:96:LYS:N	2.34	0.42
1:A:130:TYR:HE1	4:D:189:ILE:HG23	1.82	0.42
4:D:249:ASN:CB	4:D:257:THR:HG22	2.48	0.42
5:E:114:GLN:HG2	5:E:115:SER:H	1.84	0.42
5:E:131:LEU:HD21	5:E:240:TYR:CD2	2.51	0.42
5:E:37:ASP:OD2	5:E:251:ILE:HG12	2.18	0.42
8:2:324:VAL:HB	8:2:422:GLU:H	1.84	0.42
8:2:551:GLN:OE1	8:2:554:LYS:HD2	2.20	0.42
8:2:585:ILE:HG22	8:2:585:ILE:O	2.18	0.42
10:4:253:GLN:O	10:4:254:THR:OG1	2.20	0.42
10:4:243:LEU:CD1	10:4:305:PRO:HB3	2.40	0.42
10:4:261:LEU:HD21	10:4:325:LEU:CD1	2.48	0.42
10:4:515:ARG:HG2	10:4:517:ASP:OD1	2.20	0.42
10:4:804:LEU:HD23	10:4:804:LEU:C	2.40	0.42
11:5:183:CYS:SG	11:5:186:CYS:N	2.69	0.42
11:5:254:GLN:CB	11:5:283:THR:HG22	2.47	0.42
11:5:418:PRO:HA	14:5:801:ATP:O3G	2.19	0.42
8:2:803:PHE:HE1	11:5:560:HIS:HD1	1.64	0.42
11:5:379:PHE:CG	11:5:568:ILE:HB	2.54	0.42
11:5:572:VAL:HG12	11:5:576:HIS:HE1	1.85	0.42
12:6:313:MET:HA	12:6:314:CYS:HA	1.83	0.42
8:2:311:GLU:OE2	12:6:354:LEU:HA	2.19	0.42
12:6:412:LEU:HB3	12:6:416:LYS:HZ1	1.83	0.42
12:6:623:ILE:HD12	12:6:623:ILE:N	2.35	0.42
12:6:830:LEU:C	12:6:830:LEU:HD23	2.39	0.42
13:7:517:ASP:HA	13:7:561:THR:N	2.34	0.42
1:A:145:ASP:HA	1:A:146:LEU:C	2.40	0.42
3:C:11:ALA:HB3	3:C:110:LYS:HE2	2.00	0.42
5:E:344:VAL:HG12	5:E:350:LEU:CD2	2.46	0.42
5:E:510:GLY:O	5:E:513:ILE:HB	2.19	0.42
8:2:498:ILE:HA	8:2:501:MET:HB2	2.01	0.42
8:2:588:GLU:O	8:2:589:TRP:HB3	2.20	0.42
8:2:609:PHE:HA	8:2:612:MET:CG	2.48	0.42
8:2:695:LEU:O	8:2:698:PHE:HB3	2.19	0.42
8:2:763:LEU:O	8:2:766:TYR:HB3	2.19	0.42
8:2:794:ARG:HA	8:2:805:ILE:HG12	2.01	0.42
8:2:805:ILE:N	8:2:805:ILE:HD12	2.34	0.42
10:4:370:ARG:CA	10:4:371:CYS:HB2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:622:LEU:HD11	11:5:677:VAL:CG1	2.50	0.42
12:6:563:ILE:H	12:6:563:ILE:CD1	2.28	0.42
12:6:695:LEU:CD2	12:6:706:MET:HE3	2.50	0.42
12:6:571:ILE:HG12	12:6:713:PHE:CE2	2.55	0.42
13:7:262:CYS:HB3	13:7:266:GLY:O	2.19	0.42
13:7:394:THR:O	13:7:394:THR:HG22	2.20	0.42
13:7:479:ARG:HG3	13:7:519:GLY:HA3	2.00	0.42
1:A:65:ASP:OD2	1:A:67:VAL:HB	2.19	0.42
2:B:182:ARG:HB2	4:D:229:PHE:HE2	1.83	0.42
2:B:75:ILE:O	2:B:78:LEU:HB3	2.20	0.42
3:C:25:PRO:HG3	3:C:37:PRO:HB3	2.02	0.42
4:D:188:LEU:HD23	4:D:188:LEU:C	2.39	0.42
4:D:232:VAL:HB	4:D:270:THR:O	2.19	0.42
4:D:271:ILE:C	4:D:271:ILE:HD12	2.39	0.42
5:E:28:VAL:HG13	5:E:57:GLN:HB3	2.01	0.42
5:E:15:ILE:CD1	5:E:80:SER:CB	2.97	0.42
9:3:214:TYR:OH	9:3:232:PRO:HD3	2.19	0.42
9:3:292:VAL:HG13	9:3:327:TYR:C	2.39	0.42
9:3:375:ASP:HA	9:3:378:LYS:HG2	2.02	0.42
9:3:376:HIS:HB3	9:3:732:LEU:HD22	2.02	0.42
9:3:656:LEU:C	9:3:656:LEU:HD23	2.40	0.42
9:3:679:ILE:HA	9:3:682:ASN:CB	2.49	0.42
10:4:243:LEU:HD12	10:4:303:VAL:HG11	2.02	0.42
10:4:346:PHE:O	10:4:384:LEU:HG	2.20	0.42
10:4:518:LEU:HD23	10:4:518:LEU:C	2.39	0.42
10:4:826:VAL:O	10:4:830:ARG:N	2.46	0.42
11:5:91:GLU:OE2	11:5:137:LEU:HG	2.20	0.42
11:5:482:PHE:CD1	11:5:485:MET:HE2	2.55	0.42
11:5:502:ILE:CG2	11:5:504:ILE:HD11	2.50	0.42
11:5:653:LEU:O	11:5:657:ILE:HG13	2.19	0.42
10:4:388:ARG:CZ	12:6:176:ARG:HD2	2.49	0.42
12:6:401:GLU:C	12:6:402:ILE:HG12	2.40	0.42
13:7:409:ASP:OD1	13:7:412:ASN:HB3	2.19	0.42
1:A:171:ALA:HA	1:A:172:GLY:HA3	1.57	0.42
1:A:202:GLN:HG2	1:A:204:TYR:CE2	2.52	0.42
2:B:110:ASP:O	2:B:155:LYS:HD3	2.19	0.42
2:B:156:VAL:O	2:B:160:LEU:HB2	2.20	0.42
2:B:52:LEU:HD23	4:D:128:CYS:SG	2.59	0.42
4:D:168:LEU:HD11	4:D:171:LEU:HD11	2.01	0.42
4:D:184:ASP:O	4:D:188:LEU:N	2.44	0.42
5:E:278:THR:HA	5:E:281:ASP:CG	2.39	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:549:GLY:O	5:E:553:ILE:HG22	2.20	0.42
5:E:558:GLU:H	5:E:560:GLU:HB3	1.85	0.42
5:E:638:SER:HB3	5:E:639:PRO:CD	2.50	0.42
8:2:212:LYS:CD	8:2:215:LEU:HD22	2.49	0.42
8:2:227:TYR:O	8:2:231:ILE:HG13	2.20	0.42
8:2:606:ILE:HG22	8:2:609:PHE:CE1	2.54	0.42
8:2:759:PRO:HG2	8:2:762:LEU:HD12	2.01	0.42
9:3:95:ARG:CB	9:3:154:LYS:HB2	2.41	0.42
9:3:472:ILE:N	9:3:513:ILE:O	2.53	0.42
10:4:538:LYS:O	10:4:541:LEU:HB3	2.19	0.42
10:4:540:ILE:CD1	10:4:577:ILE:HG21	2.49	0.42
10:4:649:MET:HE3	10:4:701:ARG:HG2	1.97	0.42
10:4:859:ARG:HH22	12:6:693:LEU:HD21	1.85	0.42
11:5:179:LEU:HD13	11:5:181:ILE:CG1	2.46	0.42
11:5:337:VAL:HA	11:5:338:GLU:C	2.39	0.42
11:5:409:ASP:CB	11:5:518:SER:HB3	2.50	0.42
11:5:412:VAL:HB	11:5:520:LEU:CD1	2.50	0.42
11:5:415:LEU:HD12	11:5:415:LEU:O	2.19	0.42
11:5:467:GLY:C	11:5:471:LEU:HG	2.40	0.42
11:5:36:LEU:HA	11:5:47:ARG:HD2	2.02	0.42
11:5:494:HIS:ND1	11:5:549:ARG:HD2	2.34	0.42
12:6:152:TYR:HD1	12:6:266:SER:OG	2.02	0.42
12:6:280:ARG:HB3	12:6:282:GLU:OE1	2.20	0.42
12:6:773:LEU:O	12:6:776:LYS:HB3	2.19	0.42
13:7:364:LYS:O	13:7:366:LEU:N	2.52	0.42
13:7:370:LEU:O	13:7:371:LEU:HB3	2.20	0.42
13:7:500:ASP:HA	13:7:501:PRO:HD2	1.89	0.42
13:7:636:SER:CB	13:7:639:ARG:HH21	2.32	0.42
13:7:67:LEU:HD21	13:7:125:MET:CA	2.49	0.42
1:A:165:VAL:HA	1:A:207:LYS:O	2.19	0.42
1:A:166:ARG:HA	1:A:187:SER:O	2.20	0.42
1:A:5:LEU:CD1	1:A:36:ILE:HD11	2.50	0.42
1:A:5:LEU:HD12	1:A:8:LYS:HG3	2.01	0.42
1:A:32:TYR:CE1	1:A:89:TYR:HE2	2.37	0.42
4:D:76:LEU:HD11	4:D:147:ARG:NE	2.32	0.42
5:E:369:PRO:O	5:E:372:THR:HB	2.20	0.42
5:E:558:GLU:N	5:E:558:GLU:OE1	2.52	0.42
8:2:272:ASP:O	8:2:275:ALA:HB3	2.19	0.42
8:2:604:CYS:O	8:2:647:ILE:HB	2.20	0.42
8:2:671:GLU:N	8:2:672:PRO:HD2	2.35	0.42
8:2:810:LEU:O	8:2:810:LEU:HD23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:129:LEU:HD13	9:3:153:TRP:O	2.19	0.42
9:3:234:GLU:CD	9:3:240:LYS:HA	2.40	0.42
9:3:24:ARG:HD3	9:3:121:PHE:CD1	2.52	0.42
9:3:259:GLN:HG2	9:3:260:GLU:N	2.33	0.42
9:3:261:MET:SD	9:3:262:PRO:HD2	2.59	0.42
9:3:52:ASN:HB3	9:3:56:TYR:CE2	2.54	0.42
9:3:704:THR:O	9:3:707:ARG:N	2.53	0.42
10:4:677:PRO:HG2	10:4:680:SER:O	2.20	0.42
11:5:180:SER:OG	11:5:244:ILE:HB	2.19	0.42
11:5:378:ILE:H	11:5:378:ILE:HD12	1.85	0.42
11:5:416:GLY:H	11:5:525:PRO:HD3	1.84	0.42
11:5:373:SER:CB	11:5:594:ILE:HD13	2.43	0.42
11:5:536:PRO:HD3	11:5:643:ARG:HD3	2.01	0.42
5:E:379:TYR:OH	11:5:66:GLU:HG2	2.20	0.42
12:6:162:GLU:CG	12:6:166:LEU:H	2.33	0.42
12:6:273:VAL:HG22	12:6:289:SER:OG	2.19	0.42
12:6:275:ARG:O	12:6:278:ASP:HB3	2.19	0.42
12:6:616:GLU:CB	12:6:617:GLU:C	2.88	0.42
12:6:751:LEU:O	12:6:751:LEU:HD23	2.20	0.42
13:7:135:LYS:HA	13:7:136:ASP:C	2.39	0.42
13:7:73:ARG:HD2	13:7:199:ARG:NH1	2.34	0.42
13:7:457:CYS:HA	13:7:565:ALA:O	2.20	0.42
13:7:523:ILE:HD12	13:7:565:ALA:HB2	2.02	0.42
13:7:639:ARG:HA	13:7:642:ILE:CD1	2.50	0.42
1:A:27:VAL:HG22	1:A:28:ASN:N	2.35	0.42
1:A:9:LEU:C	1:A:9:LEU:HD23	2.40	0.42
2:B:74:TRP:O	2:B:77:LEU:HB3	2.20	0.42
4:D:230:ILE:HA	4:D:293:LEU:CA	2.24	0.42
5:E:256:TYR:HA	5:E:259:LEU:CB	2.49	0.42
5:E:27:LEU:HD13	5:E:56:SER:HB2	2.01	0.42
5:E:493:ASN:CA	5:E:496:ILE:HB	2.43	0.42
5:E:503:GLN:N	5:E:506:ILE:HD12	2.35	0.42
5:E:525:TYR:CE1	5:E:527:LEU:HD12	2.55	0.42
5:E:542:PRO:O	5:E:546:LEU:HB2	2.20	0.42
8:2:388:VAL:HB	8:2:408:VAL:CG1	2.48	0.42
8:2:508:HIS:O	8:2:511:ILE:HG22	2.19	0.42
8:2:512:LYS:HA	8:2:515:VAL:CG2	2.50	0.42
8:2:769:TYR:OH	8:2:773:LYS:HE2	2.19	0.42
8:2:776:PRO:HD2	8:2:822:LYS:CE	2.47	0.42
3:C:89:LYS:HB2	9:3:104:ARG:HH11	1.83	0.42
9:3:43:ARG:HB2	9:3:136:MET:HE2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:198:ARG:CB	9:3:249:THR:HG23	2.42	0.42
9:3:317:PHE:HB2	11:5:174:SER:OG	2.18	0.42
9:3:348:ARG:HA	9:3:351:ASN:HB2	2.02	0.42
9:3:711:ALA:O	9:3:714:LYS:HB2	2.20	0.42
11:5:28:ILE:HG21	11:5:96:GLN:NE2	2.27	0.42
11:5:393:MET:HB3	11:5:665:LYS:HD3	2.02	0.42
11:5:428:PHE:CE2	11:5:432:VAL:CG2	3.01	0.42
12:6:108:GLY:HA3	12:6:180:PHE:CD2	2.55	0.42
13:7:314:LYS:HD2	13:7:330:SER:HB2	2.02	0.42
13:7:414:LEU:HA	13:7:417:SER:CB	2.49	0.42
13:7:426:LEU:HD23	13:7:426:LEU:C	2.40	0.42
13:7:94:LEU:N	13:7:95:GLN:HB2	2.35	0.42
1:A:84:ARG:NH1	4:D:217:ASN:HD22	2.18	0.42
2:B:115:LEU:HD11	2:B:152:ARG:CZ	2.49	0.42
2:B:12:SER:H	2:B:15:GLU:CD	2.23	0.42
2:B:157:LEU:HA	2:B:160:LEU:HB2	2.02	0.42
2:B:50:TRP:HB2	2:B:51:GLN:HA	2.01	0.42
4:D:132:GLU:HG2	4:D:135:ARG:NH1	2.32	0.42
4:D:170:SER:HB3	4:D:175:LEU:CD2	2.48	0.42
4:D:172:THR:HG21	4:D:177:LYS:HZ3	1.81	0.42
4:D:209:ILE:O	4:D:210:ASN:HB3	2.18	0.42
4:D:252:GLY:HA2	4:D:253:LYS:C	2.40	0.42
5:E:149:ASP:N	5:E:150:ASP:CA	2.67	0.42
5:E:165:LEU:HD12	5:E:165:LEU:C	2.39	0.42
5:E:12:TYR:O	5:E:16:LEU:HG	2.19	0.42
5:E:234:GLU:O	5:E:238:GLU:N	2.53	0.42
5:E:303:THR:HA	5:E:304:PRO:HD2	1.90	0.42
5:E:324:TYR:CD1	5:E:404:ILE:HG22	2.54	0.42
5:E:607:MET:O	5:E:610:GLN:HB2	2.20	0.42
8:2:212:LYS:HD2	8:2:215:LEU:CD2	2.49	0.42
8:2:309:LEU:H	8:2:310:ARG:NH1	2.17	0.42
8:2:760:GLN:HA	8:2:763:LEU:CD2	2.49	0.42
8:2:774:ILE:HG23	8:2:822:LYS:HG2	2.02	0.42
8:2:777:LYS:O	8:2:828:PHE:HB2	2.19	0.42
8:2:778:LEU:HD12	8:2:778:LEU:C	2.40	0.42
8:2:795:ARG:HG3	8:2:796:GLU:H	1.85	0.42
8:2:858:ARG:HA	8:2:861:PHE:CD2	2.55	0.42
9:3:260:GLU:CD	9:3:272:ARG:H	2.24	0.42
9:3:287:LYS:HG3	9:3:290:ASP:OD1	2.20	0.42
9:3:33:ASP:HB2	9:3:39:ARG:NH1	2.35	0.42
9:3:406:LEU:HB3	9:3:546:LEU:CD2	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:333:LEU:HD11	10:4:400:GLN:CB	2.35	0.42
11:5:370:LEU:HD12	11:5:594:ILE:CD1	2.47	0.42
11:5:382:GLU:O	11:5:386:LYS:HG3	2.20	0.42
11:5:385:LYS:HA	11:5:388:ILE:HD12	2.01	0.42
12:6:579:THR:HG22	12:6:579:THR:O	2.20	0.42
12:6:803:MET:HE3	12:6:828:TYR:HA	2.00	0.42
13:7:1:MET:HG2	13:7:2:SER:N	2.34	0.42
1:A:31:MET:O	1:A:93:ARG:NH1	2.53	0.42
1:A:60:LEU:N	1:A:60:LEU:HD12	2.35	0.42
3:C:19:LYS:HB3	3:C:43:LYS:HA	2.01	0.42
5:E:283:ALA:HB2	5:E:587:ARG:HH12	1.85	0.42
5:E:95:PHE:O	5:E:96:LEU:HD23	2.20	0.42
8:2:234:LEU:HD12	8:2:234:LEU:O	2.20	0.41
8:2:343:LYS:H	8:2:371:GLY:CA	2.33	0.41
8:2:435:ASP:HA	8:2:436:GLY:HA3	1.83	0.41
8:2:585:ILE:HG23	8:2:586:THR:HG23	2.02	0.41
9:3:379:LYS:O	9:3:383:LEU:HG	2.19	0.41
9:3:42:VAL:HA	9:3:45:ILE:HG12	2.02	0.41
10:4:565:LEU:HD23	10:4:565:LEU:C	2.40	0.41
10:4:777:MET:HB3	10:4:793:ALA:CB	2.50	0.41
11:5:390:CYS:HB2	11:5:662:SER:CB	2.50	0.41
8:2:639:THR:CA	11:5:445:SER:HB3	2.38	0.41
11:5:540:ILE:HG21	11:5:546:ILE:CB	2.50	0.41
11:5:577:THR:CA	11:5:579:ASN:H	2.33	0.41
12:6:178:LEU:N	12:6:179:PRO:CD	2.83	0.41
12:6:275:ARG:HB2	12:6:278:ASP:HB2	2.02	0.41
12:6:355:ASP:HB3	12:6:356:TRP:HB3	2.02	0.41
12:6:695:LEU:HD23	12:6:706:MET:HE3	2.01	0.41
13:7:383:GLN:N	13:7:386:LYS:HE2	2.34	0.41
13:7:529:MET:HE3	13:7:537:ILE:HD12	1.98	0.41
13:7:612:LEU:HD23	13:7:616:VAL:HG23	2.02	0.41
10:4:714:GLU:CD	13:7:665:ILE:HG21	2.39	0.41
1:A:49:LYS:O	1:A:52:GLU:HG2	2.19	0.41
2:B:141:LEU:HA	2:B:144:LYS:HB2	2.01	0.41
2:B:178:ILE:HA	2:B:181:LEU:CG	2.50	0.41
3:C:135:LEU:CD2	3:C:165:PHE:HE2	2.33	0.41
4:D:219:ILE:HG22	4:D:220:ASP:N	2.35	0.41
5:E:148:VAL:HG13	5:E:150:ASP:CG	2.40	0.41
5:E:34:LEU:HD11	5:E:543:LEU:CD2	2.49	0.41
5:E:47:LEU:C	5:E:47:LEU:HD23	2.41	0.41
5:E:543:LEU:HA	5:E:546:LEU:CB	2.44	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:300:PHE:O	8:2:302:THR:OG1	2.13	0.41
8:2:674:LEU:O	8:2:677:PHE:HB2	2.20	0.41
8:2:760:GLN:CA	8:2:763:LEU:HG	2.43	0.41
8:2:807:VAL:HG23	8:2:808:ARG:N	2.35	0.41
9:3:237:GLU:O	9:3:239:ASN:N	2.52	0.41
9:3:403:ILE:CG2	9:3:405:ILE:HD11	2.46	0.41
9:3:434:GLY:N	9:3:473:ASP:O	2.34	0.41
9:3:477:LYS:HG3	11:5:491:VAL:CG1	2.50	0.41
9:3:718:SER:OG	9:3:720:THR:O	2.25	0.41
10:4:666:ASN:OD1	10:4:666:ASN:N	2.53	0.41
11:5:160:VAL:C	11:5:295:VAL:HG13	2.40	0.41
11:5:320:GLY:HA2	11:5:322:ALA:N	2.34	0.41
11:5:393:MET:HE2	11:5:606:CYS:HB3	2.02	0.41
11:5:456:ASP:HA	11:5:463:TYR:HE2	1.85	0.41
11:5:653:LEU:HD23	11:5:657:ILE:HD11	2.03	0.41
11:5:75:ILE:HA	11:5:78:LYS:CB	2.28	0.41
12:6:596:VAL:HG21	12:6:630:LEU:HD11	2.02	0.41
12:6:806:LEU:HD13	12:6:827:ALA:HB1	2.01	0.41
13:7:474:CYS:O	13:7:480:GLY:HA3	2.21	0.41
13:7:667:LEU:HA	13:7:670:ASP:OD1	2.20	0.41
1:A:105:ASN:CB	1:A:110:MET:SD	3.07	0.41
1:A:147:VAL:HG21	1:A:149:ILE:CD1	2.33	0.41
2:B:138:ILE:HG13	2:B:139:HIS:CD2	2.55	0.41
3:C:170:GLU:HG2	3:C:171:GLU:N	2.35	0.41
5:E:494:ARG:HE	5:E:498:LEU:HD11	1.85	0.41
5:E:624:ASN:HB3	5:E:629:ILE:CG2	2.42	0.41
8:2:314:LEU:C	8:2:314:LEU:HD12	2.40	0.41
8:2:429:ILE:HD12	8:2:431:LYS:CE	2.44	0.41
8:2:314:LEU:HA	8:2:430:TYR:O	2.21	0.41
8:2:476:TRP:HB3	8:2:765:LYS:HD2	2.02	0.41
9:3:541:SER:O	9:3:700:ARG:HD2	2.21	0.41
9:3:388:GLY:C	9:3:710:THR:HG21	2.41	0.41
10:4:523:ALA:HA	10:4:526:ILE:HG13	2.02	0.41
11:5:477:VAL:CG1	11:5:519:VAL:HG13	2.51	0.41
11:5:623:SER:O	11:5:627:VAL:HG22	2.20	0.41
12:6:287:LEU:HD23	12:6:287:LEU:C	2.40	0.41
12:6:334:PRO:HA	12:6:335:ASN:C	2.40	0.41
12:6:529:LEU:HD23	12:6:746:PHE:CE2	2.56	0.41
12:6:548:LEU:O	12:6:551:MET:HB2	2.20	0.41
12:6:594:ARG:O	12:6:594:ARG:HG3	2.20	0.41
12:6:629:MET:O	12:6:632:ASP:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:663:ILE:O	12:6:664:ALA:HB2	2.20	0.41
8:2:704:VAL:CG1	12:6:766:THR:HG23	2.44	0.41
12:6:695:LEU:CB	12:6:838:VAL:HA	2.49	0.41
13:7:287:GLU:HA	13:7:290:SER:HB3	2.02	0.41
2:B:145:ILE:C	2:B:145:ILE:HD12	2.41	0.41
2:B:94:THR:O	2:B:98:LEU:N	2.48	0.41
3:C:20:PHE:CD1	3:C:72:VAL:HG22	2.55	0.41
2:B:84:LYS:HD3	4:D:124:LEU:HD21	2.01	0.41
4:D:184:ASP:HA	4:D:187:SER:OG	2.20	0.41
4:D:200:LYS:H	4:D:201:TYR:HB2	1.85	0.41
5:E:240:TYR:C	5:E:242:SER:H	2.23	0.41
5:E:428:LEU:HA	5:E:431:LEU:HD12	2.01	0.41
5:E:43:LYS:HA	5:E:46:SER:CB	2.38	0.41
5:E:527:LEU:HD23	5:E:527:LEU:C	2.41	0.41
5:E:638:SER:N	5:E:639:PRO:HD2	2.35	0.41
8:2:333:GLN:OE1	11:5:323:ILE:HD11	2.21	0.41
8:2:390:LEU:CB	8:2:408:VAL:HG21	2.50	0.41
8:2:543:GLY:HA3	8:2:549:LYS:HZ2	1.83	0.41
8:2:551:GLN:NE2	12:6:563:ILE:HG21	2.36	0.41
8:2:565:PHE:HD1	8:2:605:LEU:CB	2.33	0.41
8:2:632:SER:HB3	11:5:486:ARG:HH22	1.84	0.41
8:2:541:LEU:CB	8:2:681:CYS:HB2	2.50	0.41
9:3:254:GLN:OE1	9:3:284:ASP:N	2.49	0.41
9:3:118:PRO:HG3	9:3:297:VAL:HG22	2.02	0.41
10:4:202:LYS:HA	10:4:224:LEU:HA	2.02	0.41
10:4:346:PHE:H	10:4:389:CYS:HB3	1.86	0.41
10:4:441:SER:O	10:4:442:ILE:HD12	2.18	0.41
10:4:699:LEU:C	10:4:699:LEU:HD23	2.40	0.41
10:4:728:TYR:O	13:7:442:LYS:NZ	2.37	0.41
8:2:631:ILE:HA	11:5:442:LYS:CB	2.50	0.41
11:5:444:SER:HA	11:5:445:SER:HA	1.59	0.41
12:6:284:ILE:HG13	12:6:401:GLU:OE1	2.20	0.41
12:6:416:LYS:CE	12:6:449:THR:HG21	2.51	0.41
12:6:603:SER:HB2	12:6:604:SER:C	2.40	0.41
12:6:711:LEU:CG	12:6:712:PHE:N	2.83	0.41
12:6:811:ALA:HB1	12:6:816:VAL:O	2.19	0.41
13:7:196:LEU:HD11	13:7:270:PHE:CD1	2.55	0.41
13:7:490:GLY:O	13:7:493:LEU:HG	2.20	0.41
10:4:571:SER:OG	13:7:685:THR:HG21	2.20	0.41
1:A:22:ARG:HH22	11:5:355:GLU:CD	2.24	0.41
3:C:103:HIS:O	3:C:107:LEU:HD13	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:109:ILE:C	3:C:112:ILE:HG22	2.40	0.41
4:D:169:ILE:O	4:D:171:LEU:HG	2.19	0.41
4:D:182:TYR:HA	4:D:185:THR:HG1	1.85	0.41
4:D:256:TYR:HA	4:D:257:THR:HA	1.94	0.41
4:D:259:THR:HG21	4:D:268:GLU:HB3	2.01	0.41
4:D:66:SER:HA	4:D:69:ASN:HB2	2.01	0.41
5:E:131:LEU:HD13	5:E:237:LEU:HD11	2.01	0.41
5:E:139:ILE:HG13	5:E:140:ILE:HG23	2.02	0.41
5:E:22:HIS:HA	5:E:23:SER:C	2.41	0.41
5:E:238:GLU:O	5:E:242:SER:OG	2.39	0.41
5:E:288:TYR:O	5:E:291:LEU:N	2.53	0.41
5:E:293:PRO:CA	5:E:296:GLN:HB2	2.23	0.41
5:E:553:ILE:HG23	5:E:554:GLU:N	2.35	0.41
5:E:558:GLU:N	5:E:560:GLU:HB3	2.36	0.41
8:2:268:LEU:HA	8:2:271:PHE:CB	2.27	0.41
8:2:580:VAL:CG1	8:2:592:GLU:H	2.31	0.41
9:3:118:PRO:O	9:3:122:ILE:HB	2.21	0.41
9:3:122:ILE:HD12	9:3:221:LEU:CD1	2.51	0.41
9:3:123:PRO:HG2	9:3:124:PRO:HD3	2.03	0.41
9:3:179:LEU:HA	9:3:297:VAL:N	2.34	0.41
9:3:443:THR:HG22	9:3:459:ALA:N	2.34	0.41
9:3:470:VAL:HB	9:3:512:VAL:CA	2.49	0.41
9:3:488:GLU:OE2	9:3:496:THR:HG23	2.19	0.41
9:3:495:VAL:N	9:3:506:LEU:O	2.38	0.41
9:3:565:VAL:O	9:3:568:THR:HB	2.20	0.41
10:4:248:LEU:HD12	10:4:258:TYR:HA	2.03	0.41
10:4:313:GLY:HA2	10:4:403:PRO:CB	2.45	0.41
10:4:456:LEU:HD23	10:4:456:LEU:C	2.41	0.41
10:4:794:THR:O	10:4:797:GLN:HB2	2.20	0.41
11:5:364:PRO:HG2	11:5:365:LYS:CD	2.49	0.41
11:5:33:ASN:HA	11:5:37:GLU:HG2	2.02	0.41
11:5:454:GLN:HB3	11:5:465:GLU:HB2	2.02	0.41
11:5:485:MET:HE3	11:5:490:ARG:CG	2.51	0.41
11:5:572:VAL:CG1	11:5:576:HIS:HE1	2.33	0.41
12:6:373:MET:CG	12:6:374:PRO:HD2	2.50	0.41
12:6:414:GLY:CA	12:6:416:LYS:HG3	2.50	0.41
12:6:637:CYS:C	12:6:638:ILE:HD12	2.41	0.41
13:7:214:ARG:HB3	13:7:215:TYR:O	2.21	0.41
13:7:327:ILE:HG22	13:7:328:PRO:O	2.19	0.41
13:7:404:LEU:HD13	13:7:633:VAL:HG21	2.01	0.41
13:7:639:ARG:HA	13:7:642:ILE:HG13	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:211:TYR:CG	13:7:8:ILE:HD12	2.55	0.41
1:A:134:TYR:O	1:A:137:LEU:HB3	2.20	0.41
1:A:137:LEU:HD23	1:A:137:LEU:C	2.41	0.41
1:A:17:LYS:HD3	3:C:6:ILE:HD13	2.01	0.41
4:D:199:LEU:HD22	4:D:202:MET:HG3	2.02	0.41
4:D:203:PRO:HB2	4:D:206:LEU:HB2	2.00	0.41
4:D:230:ILE:HB	4:D:291:VAL:CG2	2.51	0.41
5:E:29:ILE:HD11	5:E:58:ILE:CA	2.44	0.41
5:E:536:LEU:HD22	5:E:539:TYR:HD2	1.86	0.41
5:E:569:LEU:HG	5:E:584:LEU:CD1	2.51	0.41
5:E:626:GLU:CB	5:E:629:ILE:HG22	2.43	0.41
7:G:8:DG:H2'	7:G:9:DA:H8	1.83	0.41
8:2:363:PHE:CB	8:2:368:LYS:CB	2.98	0.41
8:2:392:GLU:OE2	8:2:396:THR:OG1	2.23	0.41
8:2:583:ASP:N	8:2:584:PRO:HD3	2.35	0.41
8:2:612:MET:SD	8:2:620:ILE:HD11	2.59	0.41
8:2:703:HIS:CD2	12:6:565:LEU:HD22	2.55	0.41
8:2:774:ILE:HG23	8:2:822:LYS:CG	2.50	0.41
8:2:550:SER:HB2	14:2:901:ATP:O3A	2.20	0.41
9:3:98:ILE:CG1	9:3:155:LEU:HD22	2.39	0.41
9:3:377:ILE:HA	9:3:547:PHE:CE2	2.54	0.41
9:3:408:VAL:HG23	9:3:516:ALA:O	2.21	0.41
9:3:699:ALA:O	9:3:702:LEU:HB3	2.21	0.41
10:4:546:GLY:HA3	10:4:562:ILE:CD1	2.50	0.41
10:4:601:LEU:HD23	10:4:621:LEU:CD1	2.48	0.41
10:4:726:ASN:O	10:4:727:LEU:HG	2.20	0.41
10:4:859:ARG:NH2	12:6:693:LEU:HD21	2.36	0.41
11:5:167:ILE:HD11	11:5:273:ASN:HB3	2.02	0.41
11:5:27:ILE:HG22	11:5:31:PHE:CE2	2.55	0.41
12:6:403:VAL:HG11	12:6:450:TYR:HB3	2.03	0.41
12:6:528:LYS:HE2	12:6:531:ARG:NH2	2.36	0.41
12:6:767:LYS:O	12:6:770:ARG:HG2	2.20	0.41
13:7:309:ALA:O	13:7:336:ASN:HA	2.21	0.41
13:7:368:ALA:HA	13:7:369:GLY:HA2	1.69	0.41
13:7:580:PRO:HG2	13:7:679:PHE:O	2.21	0.41
2:B:80:LYS:C	2:B:83:SER:H	2.23	0.41
3:C:169:LEU:HD12	3:C:169:LEU:N	2.36	0.41
5:E:81:LEU:CB	5:E:120:ILE:HG13	2.41	0.41
5:E:145:ASP:HA	5:E:146:GLY:HA2	1.66	0.41
1:A:188:GLN:HG2	5:E:478:TRP:CH2	2.55	0.41
1:A:190:PHE:CD2	5:E:55:GLN:HA	2.31	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:605:PHE:HA	5:E:608:ALA:CB	2.44	0.41
8:2:338:LYS:HZ2	8:2:347:ILE:CG2	2.34	0.41
8:2:534:ARG:HB3	8:2:534:ARG:CZ	2.51	0.41
9:3:123:PRO:HA	9:3:126:GLU:OE1	2.20	0.41
9:3:179:LEU:HG	9:3:296:GLY:CA	2.49	0.41
9:3:259:GLN:HG2	9:3:260:GLU:O	2.20	0.41
9:3:169:ARG:HE	9:3:266:PRO:HG3	1.86	0.41
9:3:431:ALA:CB	9:3:471:CYS:HB2	2.51	0.41
9:3:513:ILE:HG22	9:3:514:ALA:N	2.36	0.41
9:3:410:ASP:CB	9:3:551:ASP:HB2	2.39	0.41
10:4:188:GLN:CA	10:4:191:THR:HG22	2.50	0.41
10:4:193:ASN:HD21	10:4:254:THR:H	1.67	0.41
10:4:344:VAL:HA	10:4:359:GLU:CA	2.40	0.41
10:4:631:ILE:HG23	10:4:637:MET:HE2	2.03	0.41
10:4:655:SER:HB3	10:4:664:THR:HG22	2.03	0.41
10:4:686:LEU:CG	10:4:687:PRO:HD2	2.50	0.41
11:5:235:ASN:HA	11:5:236:CYS:HA	1.64	0.41
11:5:153:SER:HA	11:5:298:TYR:HE2	1.86	0.41
11:5:391:LEU:HD12	11:5:410:ILE:HD11	2.03	0.41
11:5:413:LEU:HD21	11:5:550:PHE:CE2	2.55	0.41
12:6:108:GLY:HA3	12:6:180:PHE:HE2	1.81	0.41
12:6:158:LEU:HD22	12:6:170:ILE:HD11	2.01	0.41
12:6:328:THR:HA	12:6:329:GLU:HA	1.83	0.41
12:6:638:ILE:CG2	12:6:639:ASP:N	2.82	0.41
12:6:778:LYS:HG2	12:6:782:LYS:HZ3	1.84	0.41
13:7:82:LEU:HG	13:7:206:PRO:HA	2.03	0.41
13:7:21:ILE:O	13:7:25:LEU:N	2.36	0.41
13:7:231:LYS:HG3	13:7:232:GLY:N	2.36	0.41
13:7:318:LEU:O	13:7:319:SER:OG	2.22	0.41
13:7:354:ILE:C	13:7:354:ILE:HD12	2.41	0.41
13:7:464:VAL:O	13:7:465:ALA:HB3	2.21	0.41
13:7:520:ILE:HD12	13:7:520:ILE:H	1.86	0.41
13:7:694:ARG:O	13:7:697:GLN:HB3	2.21	0.41
13:7:86:LEU:HD23	13:7:90:ASN:ND2	2.35	0.41
1:A:137:LEU:O	1:A:140:ASP:HB2	2.20	0.41
1:A:107:LEU:CD2	1:A:153:GLY:CA	2.97	0.41
1:A:175:GLN:HG3	1:A:181:PHE:HB2	2.03	0.41
1:A:71:GLN:N	1:A:71:GLN:OE1	2.38	0.41
2:B:157:LEU:C	2:B:157:LEU:HD23	2.41	0.41
2:B:197:THR:HG22	4:D:263:LEU:HD23	2.01	0.41
3:C:27:LEU:HG	3:C:38:ILE:CG1	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:64:MET:HA	4:D:67:TRP:HB3	2.03	0.41
5:E:356:LYS:O	5:E:360:HIS:ND1	2.50	0.41
5:E:324:TYR:HE1	5:E:405:ILE:HG13	1.80	0.41
5:E:572:ILE:HD11	5:E:578:THR:H	1.85	0.41
5:E:81:LEU:HD12	5:E:120:ILE:CG2	2.49	0.41
8:2:778:LEU:HB2	8:2:783:MET:CE	2.50	0.41
9:3:171:LEU:HD23	9:3:172:THR:HG23	2.02	0.41
9:3:419:LEU:HD12	9:3:473:ASP:OD1	2.20	0.41
10:4:187:ILE:C	10:4:188:GLN:HG3	2.40	0.41
10:4:291:TYR:CB	10:4:296:ILE:HG12	2.40	0.41
10:4:433:ILE:HG22	10:4:434:GLU:N	2.36	0.41
10:4:465:HIS:CG	10:4:466:VAL:N	2.89	0.41
11:5:25:THR:O	11:5:26:GLU:HB2	2.20	0.41
11:5:440:SER:N	11:5:444:SER:OG	2.51	0.41
11:5:623:SER:O	11:5:627:VAL:HG13	2.21	0.41
12:6:112:ARG:HH12	12:6:183:LYS:HB3	1.86	0.41
12:6:767:LYS:HZ1	12:6:821:PRO:CD	2.34	0.41
12:6:806:LEU:HD11	12:6:831:LEU:HD11	2.02	0.41
13:7:208:SER:CA	13:7:209:GLN:HB2	2.50	0.41
13:7:234:PHE:O	13:7:237:GLN:HB2	2.21	0.41
10:4:453:LEU:HD12	13:7:278:PHE:CZ	2.56	0.41
13:7:312:GLU:HA	13:7:334:HIS:HA	2.03	0.41
13:7:612:LEU:HD23	13:7:612:LEU:C	2.41	0.41
1:A:145:ASP:CA	1:A:146:LEU:CB	2.95	0.41
2:B:107:THR:HG23	2:B:108:HIS:CE1	2.56	0.41
2:B:178:ILE:O	2:B:181:LEU:HG	2.21	0.41
3:C:166:LEU:C	3:C:169:LEU:HD13	2.41	0.41
4:D:227:PHE:HD1	4:D:277:MET:CA	2.25	0.41
5:E:150:ASP:HB3	5:E:151:THR:HA	2.02	0.41
5:E:162:LEU:CD1	5:E:163:LEU:HD22	2.50	0.41
5:E:410:VAL:HG22	5:E:420:SER:HA	2.03	0.41
5:E:469:LEU:HD23	5:E:469:LEU:C	2.41	0.41
5:E:612:ILE:O	5:E:615:GLU:HB3	2.20	0.41
5:E:621:ARG:HB3	5:E:623:ASP:CG	2.41	0.41
5:E:96:LEU:HB2	5:E:98:ILE:HD13	2.00	0.41
5:E:98:ILE:N	5:E:99:ASP:CB	2.76	0.41
8:2:296:ARG:HE	8:2:414:LEU:HD21	1.85	0.41
8:2:388:VAL:HG12	8:2:389:THR:N	2.36	0.41
8:2:582:LYS:HG2	8:2:582:LYS:HZ2	1.71	0.41
8:2:693:GLU:O	8:2:697:THR:OG1	2.18	0.41
8:2:849:GLN:HB2	8:2:853:VAL:CB	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:189:THR:CA	9:3:256:ILE:HG22	2.47	0.41
9:3:179:LEU:HB2	9:3:297:VAL:CG2	2.51	0.41
9:3:470:VAL:HB	9:3:512:VAL:CB	2.50	0.41
9:3:530:HIS:C	9:3:532:ASN:H	2.23	0.41
10:4:365:ILE:HD11	12:6:448:LEU:HD21	2.02	0.41
10:4:444:ILE:HD12	10:4:444:ILE:O	2.21	0.41
10:4:455:SER:HB2	13:7:276:ARG:C	2.41	0.41
10:4:594:LYS:HD3	10:4:636:LYS:O	2.20	0.41
10:4:559:ARG:CZ	10:4:668:ARG:HB2	2.50	0.41
10:4:672:LEU:C	10:4:672:LEU:HD23	2.41	0.41
6:F:21:DT:H5"	11:5:506:LYS:CE	2.50	0.41
12:6:122:PHE:HB2	12:6:134:LYS:O	2.20	0.41
8:2:446:VAL:HG22	12:6:302:PRO:O	2.20	0.41
12:6:360:ARG:HG3	12:6:377:LEU:C	2.41	0.41
12:6:550:GLN:HE21	12:6:570:ASN:HA	1.85	0.41
12:6:537:VAL:HG21	12:6:584:PHE:CE1	2.56	0.41
10:4:909:ARG:NH2	12:6:698:ASN:HA	2.36	0.41
12:6:773:LEU:CD2	12:6:800:LEU:HD11	2.45	0.41
13:7:306:LYS:HG2	13:7:307:PHE:N	2.36	0.41
13:7:362:GLY:HA3	13:7:364:LYS:H	1.84	0.41
13:7:95:GLN:N	13:7:95:GLN:OE1	2.54	0.41
1:A:100:MET:HE1	1:A:117:GLN:N	2.35	0.41
1:A:44:VAL:HG23	1:A:79:MET:CE	2.50	0.41
2:B:108:HIS:CD2	2:B:111:ARG:HH21	2.38	0.41
2:B:64:VAL:HG21	2:B:67:ARG:NH1	2.36	0.41
3:C:11:ALA:CB	3:C:110:LYS:HE2	2.51	0.41
4:D:128:CYS:O	4:D:131:THR:HB	2.21	0.41
5:E:318:LEU:HA	5:E:412:THR:HG23	2.03	0.41
5:E:34:LEU:HD13	5:E:34:LEU:C	2.41	0.41
5:E:429:THR:HA	5:E:432:LEU:CD1	2.51	0.41
5:E:30:PHE:HD1	5:E:61:ILE:CD1	2.33	0.41
6:F:23:DT:OP2	6:F:23:DT:H6	2.04	0.41
8:2:261:ALA:O	8:2:316:SER:HB2	2.20	0.41
8:2:314:LEU:HA	8:2:430:TYR:HD2	1.86	0.41
8:2:606:ILE:CG2	8:2:609:PHE:CE1	3.04	0.41
8:2:608:GLU:HA	8:2:650:ALA:CB	2.51	0.41
8:2:820:PHE:O	8:2:824:ARG:N	2.54	0.41
9:3:177:ASN:ND2	11:5:246:GLU:HA	2.36	0.41
9:3:190:SER:CB	9:3:255:ARG:HG3	2.50	0.41
9:3:279:ASP:H	9:3:282:LEU:HB2	1.86	0.41
9:3:158:LYS:CA	9:3:327:TYR:CE2	2.95	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:191:LEU:CB	9:3:456:ARG:HE	2.34	0.41
9:3:695:SER:CB	9:3:696:PRO:HA	2.42	0.41
10:4:269:ILE:HG22	10:4:273:ASP:OD2	2.20	0.41
11:5:426:LEU:HA	11:5:429:VAL:HB	2.02	0.41
11:5:649:THR:H	11:5:652:GLN:CG	2.34	0.41
11:5:87:ILE:HB	11:5:88:PRO:CD	2.51	0.41
12:6:166:LEU:HD23	12:6:166:LEU:O	2.20	0.41
12:6:537:VAL:HG12	12:6:538:PHE:N	2.35	0.41
12:6:546:GLY:HA2	12:6:549:LEU:CG	2.50	0.41
12:6:586:LYS:HA	12:6:589:VAL:HG11	2.01	0.41
12:6:726:GLU:HA	12:6:729:SER:OG	2.21	0.41
12:6:569:ILE:HD13	12:6:805:ARG:CD	2.51	0.41
13:7:203:TYR:OH	13:7:338:THR:N	2.54	0.41
13:7:245:ILE:HG22	13:7:246:THR:N	2.36	0.41
13:7:260:TYR:CE2	13:7:281:LEU:HG	2.56	0.41
13:7:290:SER:O	13:7:291:GLN:HG2	2.20	0.41
1:A:165:VAL:HG13	1:A:206:GLN:N	2.33	0.41
1:A:164:ASP:HA	1:A:189:PHE:O	2.20	0.41
1:A:16:THR:CA	1:A:19:LEU:HD12	2.46	0.41
1:A:59:GLN:C	1:A:60:LEU:HD12	2.41	0.41
1:A:78:CYS:HA	1:A:81:ARG:CB	2.40	0.41
4:D:143:TYR:OH	4:D:147:ARG:NH1	2.54	0.41
5:E:30:PHE:CE2	5:E:81:LEU:HD21	2.56	0.41
5:E:505:ALA:O	5:E:508:ASN:HB3	2.20	0.41
5:E:525:TYR:CE1	5:E:568:VAL:HG21	2.52	0.41
5:E:71:TYR:CE2	5:E:96:LEU:HB3	2.55	0.41
8:2:229:ALA:O	8:2:233:THR:HG23	2.20	0.41
8:2:663:LEU:O	8:2:667:VAL:N	2.43	0.41
8:2:802:SER:HA	8:2:803:PHE:HA	1.82	0.41
8:2:830:SER:N	8:2:833:ASP:OD2	2.51	0.41
9:3:101:ASP:CG	9:3:104:ARG:HH21	2.23	0.41
9:3:130:THR:O	9:3:133:ALA:HB3	2.21	0.41
9:3:245:TYR:HD1	9:3:250:PHE:CZ	2.37	0.41
9:3:301:LEU:HA	11:5:245:HIS:NE2	2.36	0.41
9:3:390:GLU:CB	9:3:509:ARG:HH22	2.33	0.41
9:3:676:ILE:HG23	9:3:680:VAL:HG23	2.02	0.41
9:3:383:LEU:HA	9:3:711:ALA:HB1	2.03	0.41
9:3:388:GLY:H	9:3:714:LYS:HZ2	1.68	0.41
10:4:400:GLN:HA	10:4:414:SER:HA	2.02	0.41
10:4:456:LEU:HD11	13:7:252:LYS:HB2	2.02	0.41
10:4:560:GLY:O	10:4:562:ILE:HG23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:567:CYS:O	10:4:708:VAL:N	2.34	0.41
10:4:602:THR:HA	10:4:619:GLY:CA	2.47	0.41
10:4:623:LEU:HD13	12:6:370:THR:OG1	2.21	0.41
10:4:713:ASP:HB2	10:4:716:ASN:HB3	2.02	0.41
11:5:319:SER:OG	11:5:323:ILE:O	2.34	0.41
8:2:637:VAL:CG1	11:5:471:LEU:HD11	2.50	0.41
11:5:572:VAL:O	11:5:576:HIS:ND1	2.51	0.41
12:6:115:PHE:CD2	12:6:119:LEU:HD23	2.56	0.41
12:6:274:HIS:O	12:6:290:ILE:HG23	2.20	0.41
13:7:148:LEU:C	13:7:148:LEU:HD23	2.41	0.41
13:7:228:ARG:HD3	13:7:329:ARG:CD	2.51	0.41
13:7:311:GLN:C	13:7:335:VAL:H	2.24	0.41
13:7:372:THR:C	13:7:374:THR:H	2.23	0.41
13:7:517:ASP:HB3	13:7:559:ALA:HA	2.02	0.41
1:A:139:THR:HA	1:A:142:LYS:HZ3	1.86	0.41
1:A:147:VAL:HB	1:A:148:ASP:C	2.41	0.41
1:A:165:VAL:O	1:A:189:PHE:N	2.49	0.41
1:A:89:TYR:O	1:A:93:ARG:HB2	2.20	0.41
2:B:16:ILE:O	2:B:19:ILE:HB	2.21	0.41
3:C:72:VAL:HG12	3:C:74:LEU:N	2.35	0.41
4:D:293:LEU:HD12	4:D:293:LEU:N	2.36	0.41
5:E:83:LEU:N	5:E:121:TYR:O	2.37	0.41
5:E:244:GLY:O	5:E:602:LEU:HD23	2.21	0.41
5:E:333:SER:HB2	5:E:373:ALA:O	2.21	0.41
5:E:366:MET:SD	5:E:368:ILE:HD12	2.61	0.41
5:E:396:LEU:HB3	5:E:401:LEU:HB2	2.03	0.41
5:E:416:ARG:NH2	11:5:40:LEU:HD13	2.36	0.41
5:E:427:ALA:HB3	5:E:492:LEU:HD11	2.03	0.41
5:E:503:GLN:CA	5:E:506:ILE:HB	2.27	0.41
5:E:512:ALA:O	5:E:516:LYS:NZ	2.45	0.41
5:E:30:PHE:CD1	5:E:61:ILE:HD11	2.56	0.41
5:E:78:ILE:N	5:E:78:ILE:HD12	2.34	0.41
6:F:6:DT:H2'	6:F:7:DC:C6	2.56	0.41
8:2:501:MET:HB2	8:2:501:MET:HE2	1.81	0.40
8:2:534:ARG:HE	8:2:815:ARG:NH2	2.19	0.40
8:2:419:LYS:NZ	8:2:598:LEU:HD12	2.36	0.40
8:2:839:LYS:CE	8:2:864:TYR:HD1	2.34	0.40
9:3:115:LEU:O	9:3:164:HIS:NE2	2.45	0.40
9:3:353:LEU:HG	9:3:359:ILE:HG21	2.03	0.40
10:4:187:ILE:HG22	10:4:188:GLN:HG3	2.02	0.40
10:4:236:LEU:H	10:4:236:LEU:CD1	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:352:CYS:H	10:4:354:HIS:N	2.18	0.40
10:4:505:ASP:O	10:4:508:LYS:HB3	2.20	0.40
10:4:695:PRO:HG2	10:4:698:LEU:HB2	2.00	0.40
11:5:236:CYS:SG	11:5:240:PRO:CG	3.09	0.40
11:5:303:SER:HB2	11:5:304:LYS:H	1.73	0.40
11:5:410:ILE:HG13	11:5:411:ASN:N	2.36	0.40
8:2:676:ARG:NH1	11:5:418:PRO:HB2	2.31	0.40
11:5:487:ASP:O	11:5:490:ARG:HB3	2.21	0.40
11:5:514:ASN:CB	11:5:516:ARG:HH12	2.33	0.40
11:5:379:PHE:N	14:5:801:ATP:N1	2.64	0.40
12:6:276:ILE:O	12:6:279:ILE:HB	2.21	0.40
12:6:531:ARG:HG3	12:6:745:PRO:HD3	2.01	0.40
12:6:541:GLU:O	12:6:544:LYS:N	2.48	0.40
12:6:555:VAL:O	12:6:557:LYS:HG3	2.21	0.40
12:6:663:ILE:CG2	12:6:664:ALA:N	2.83	0.40
14:2:901:ATP:PB	12:6:708:ARG:HH12	2.44	0.40
12:6:727:LEU:O	12:6:731:ILE:HB	2.20	0.40
13:7:205:LYS:HA	13:7:206:PRO:HD2	1.96	0.40
9:3:195:LYS:HA	13:7:372:THR:H	1.86	0.40
13:7:463:GLY:O	13:7:464:VAL:HB	2.21	0.40
13:7:648:LYS:CE	13:7:704:LEU:HD22	2.51	0.40
1:A:108:ASP:N	1:A:109:LEU:C	2.74	0.40
1:A:117:GLN:O	1:A:120:THR:HG23	2.20	0.40
1:A:168:LEU:HD21	1:A:206:GLN:N	2.36	0.40
2:B:146:GLN:HG2	11:5:44:PHE:CZ	2.51	0.40
2:B:72:VAL:CG1	2:B:75:ILE:HG23	2.51	0.40
3:C:3:TYR:CE1	4:D:218:MET:HG3	2.56	0.40
4:D:58:GLN:HA	4:D:61:SER:CB	2.49	0.40
5:E:75:ASP:HB3	5:E:118:ARG:HH22	1.86	0.40
5:E:283:ALA:CB	5:E:587:ARG:HH12	2.34	0.40
5:E:62:PHE:CE1	5:E:473:TRP:HE3	2.39	0.40
5:E:525:TYR:HE1	5:E:527:LEU:HD12	1.85	0.40
5:E:64:TYR:CB	5:E:625:PHE:HA	2.37	0.40
8:2:305:SER:O	8:2:320:VAL:HG13	2.21	0.40
8:2:670:THR:HG22	8:2:673:ILE:CG2	2.51	0.40
8:2:794:ARG:O	8:2:797:SER:OG	2.40	0.40
9:3:179:LEU:HA	9:3:296:GLY:O	2.21	0.40
9:3:95:ARG:NH2	9:3:282:LEU:HD11	2.35	0.40
9:3:356:LYS:O	9:3:359:ILE:HG12	2.21	0.40
9:3:382:LEU:HA	9:3:385:LEU:CD1	2.52	0.40
9:3:403:ILE:HG23	9:3:544:ASP:OD2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:520:PHE:CB	9:3:527:ARG:HH22	2.32	0.40
9:3:737:LEU:HB3	9:3:738:LEU:HD12	2.03	0.40
11:5:136:GLN:HG3	11:5:280:ARG:NH2	2.36	0.40
11:5:425:LEU:HD23	11:5:429:VAL:HG23	2.02	0.40
11:5:502:ILE:HB	11:5:513:LEU:HG	2.03	0.40
11:5:52:ASN:O	11:5:56:VAL:HG23	2.21	0.40
12:6:186:ARG:O	12:6:189:VAL:HB	2.20	0.40
12:6:546:GLY:O	12:6:550:GLN:N	2.47	0.40
12:6:596:VAL:HG21	12:6:630:LEU:CD1	2.51	0.40
12:6:731:ILE:O	12:6:734:LEU:HB2	2.21	0.40
13:7:238:LEU:HA	13:7:354:ILE:CA	2.41	0.40
13:7:459:MET:HE3	13:7:584:ILE:HG12	2.01	0.40
13:7:537:ILE:HA	13:7:540:VAL:CG2	2.51	0.40
1:A:156:VAL:HG12	1:A:157:PRO:O	2.21	0.40
1:A:17:LYS:CD	3:C:6:ILE:HD13	2.51	0.40
1:A:83:LYS:HG2	1:A:87:LEU:CD2	2.50	0.40
2:B:82:GLN:O	2:B:83:SER:OG	2.33	0.40
2:B:160:LEU:HD23	3:C:133:GLN:NE2	2.36	0.40
3:C:19:LYS:HG3	3:C:73:GLU:HB3	2.03	0.40
1:A:73:PHE:CE1	3:C:57:VAL:HG21	2.56	0.40
4:D:199:LEU:O	4:D:200:LYS:HD2	2.21	0.40
5:E:135:PHE:CE1	5:E:160:TYR:HE2	2.39	0.40
5:E:157:GLU:HA	5:E:161:LYS:CG	2.51	0.40
5:E:270:LEU:CD2	5:E:298:GLU:HB3	2.50	0.40
5:E:624:ASN:HD22	5:E:630:ILE:HA	1.86	0.40
5:E:634:ARG:HA	5:E:637:LEU:HD21	2.01	0.40
6:F:22:DT:H5''	6:F:22:DT:C6	2.45	0.40
8:2:699:VAL:O	8:2:702:SER:HB3	2.22	0.40
9:3:350:ILE:HD12	9:3:350:ILE:H	1.87	0.40
9:3:496:THR:HG22	9:3:505:THR:HG23	2.03	0.40
9:3:733:LEU:HD23	9:3:733:LEU:C	2.42	0.40
10:4:190:CYS:O	10:4:194:PHE:N	2.52	0.40
10:4:319:PRO:O	10:4:322:ILE:HG12	2.22	0.40
10:4:393:ASP:OD1	12:6:281:SER:OG	2.27	0.40
10:4:455:SER:H	13:7:277:THR:HA	1.86	0.40
10:4:563:ASN:C	10:4:564:ILE:HD12	2.41	0.40
10:4:805:ALA:O	10:4:808:HIS:HB3	2.21	0.40
10:4:923:VAL:O	10:4:924:ARG:NH1	2.50	0.40
11:5:360:LEU:O	11:5:366:LEU:HD13	2.20	0.40
11:5:410:ILE:H	11:5:658:ARG:NH1	2.19	0.40
11:5:417:ASP:O	11:5:420:THR:OG1	2.26	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:485:MET:SD	11:5:490:ARG:HA	2.61	0.40
9:3:562:SER:CB	11:5:623:SER:HB2	2.50	0.40
14:3:1001:ATP:H1'	11:5:650:ILE:HG13	2.04	0.40
12:6:126:SER:O	12:6:132:VAL:HA	2.21	0.40
12:6:158:LEU:HD22	12:6:167:ALA:HB2	2.02	0.40
12:6:306:LYS:HZ3	12:6:321:VAL:HA	1.86	0.40
8:2:573:ALA:CB	12:6:670:ALA:H	2.34	0.40
13:7:340:VAL:HG22	13:7:341:ARG:N	2.36	0.40
13:7:367:LYS:HG3	13:7:368:ALA:O	2.21	0.40
13:7:393:LEU:HB2	13:7:395:SER:CB	2.51	0.40
13:7:429:LYS:HA	13:7:432:LEU:CG	2.52	0.40
13:7:478:PRO:O	13:7:479:ARG:HB3	2.21	0.40
9:3:684:THR:OG1	13:7:610:GLU:OE2	2.27	0.40
1:A:107:LEU:HD23	1:A:201:GLN:HG3	2.02	0.40
1:A:134:TYR:HE1	4:D:186:HIS:ND1	2.20	0.40
2:B:21:GLU:O	2:B:73:LEU:HB3	2.22	0.40
2:B:149:ARG:HH21	3:C:191:MET:CE	2.34	0.40
4:D:133:LEU:HD22	4:D:134:GLU:CG	2.51	0.40
4:D:232:VAL:N	4:D:291:VAL:HG23	2.36	0.40
4:D:233:ASN:N	4:D:291:VAL:HA	2.29	0.40
5:E:138:GLN:HG3	5:E:139:ILE:N	2.36	0.40
5:E:15:ILE:O	5:E:19:SER:N	2.55	0.40
5:E:619:LYS:CD	5:E:633:ARG:HG3	2.51	0.40
5:E:577:ASP:CG	5:E:634:ARG:HG2	2.42	0.40
5:E:637:LEU:HA	5:E:640:PHE:CB	2.44	0.40
5:E:15:ILE:HD11	5:E:80:SER:HB2	2.03	0.40
5:E:71:TYR:CZ	5:E:96:LEU:HD13	2.57	0.40
6:F:9:DA:C2'	6:F:10:DT:H72	2.52	0.40
8:2:216:LEU:HD12	8:2:217:GLU:H	1.86	0.40
8:2:317:LEU:HD23	8:2:317:LEU:C	2.42	0.40
8:2:333:GLN:HB3	8:2:383:ARG:HG3	2.02	0.40
8:2:484:PHE:HE2	8:2:769:TYR:CD2	2.39	0.40
9:3:195:LYS:HB3	9:3:251:ILE:O	2.22	0.40
9:3:415:LYS:NZ	9:3:516:ALA:O	2.54	0.40
9:3:658:LYS:HA	9:3:661:GLN:HG2	2.03	0.40
10:4:542:LEU:O	10:4:546:GLY:N	2.54	0.40
10:4:597:SER:O	10:4:601:LEU:HD13	2.22	0.40
10:4:830:ARG:HA	10:4:833:ILE:CD1	2.46	0.40
8:2:591:LEU:HD13	11:5:270:MET:HE1	2.03	0.40
9:3:421:PHE:HD1	11:5:402:ASP:OD2	2.04	0.40
12:6:159:SER:HA	12:6:164:GLY:HA2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:405:PRO:HA	12:6:450:TYR:HD1	1.86	0.40
12:6:566:ARG:HA	12:6:567:GLY:HA3	1.69	0.40
12:6:659:GLN:CG	12:6:675:ARG:HG2	2.51	0.40
12:6:806:LEU:HD11	12:6:831:LEU:HG	2.03	0.40
13:7:259:ALA:HB3	13:7:304:ALA:HB3	2.03	0.40
13:7:262:CYS:O	13:7:263:ASP:HB3	2.22	0.40
13:7:490:GLY:C	13:7:493:LEU:HG	2.42	0.40
13:7:539:GLU:O	13:7:542:GLU:HB3	2.21	0.40
13:7:540:VAL:O	13:7:543:GLN:HA	2.21	0.40
1:A:105:ASN:HA	1:A:106:GLY:HA3	1.62	0.40
1:A:139:THR:CA	1:A:142:LYS:HZ3	2.35	0.40
1:A:107:LEU:CD2	1:A:153:GLY:HA3	2.48	0.40
1:A:161:VAL:CG1	1:A:192:ARG:HB2	2.49	0.40
1:A:162:PHE:CD1	1:A:192:ARG:HB3	2.56	0.40
2:B:87:ILE:CG2	2:B:130:ALA:HB1	2.51	0.40
3:C:53:ILE:O	3:C:56:ILE:HB	2.22	0.40
4:D:220:ASP:HA	4:D:222:PRO:CD	2.40	0.40
5:E:159:TYR:HA	5:E:163:LEU:HD23	2.04	0.40
5:E:552:LEU:O	5:E:555:CYS:N	2.55	0.40
5:E:612:ILE:HA	5:E:615:GLU:HB3	2.02	0.40
5:E:613:THR:CB	5:E:622:ILE:HD11	2.52	0.40
8:2:530:LYS:HE3	11:5:428:PHE:CD1	2.56	0.40
8:2:626:GLN:HG3	8:2:628:SER:O	2.22	0.40
8:2:656:ARG:HG3	8:2:657:TYR:N	2.36	0.40
9:3:169:ARG:NH2	9:3:269:GLN:HB2	2.36	0.40
9:3:272:ARG:HD2	11:5:171:VAL:CG1	2.52	0.40
9:3:359:ILE:HG13	9:3:360:PHE:N	2.37	0.40
9:3:422:VAL:HG12	9:3:469:VAL:HG11	2.04	0.40
9:3:432:THR:OG1	9:3:472:ILE:HG12	2.21	0.40
9:3:440:VAL:HG12	9:3:441:GLY:H	1.85	0.40
9:3:482:ASP:OD1	9:3:485:ALA:HB3	2.22	0.40
9:3:711:ALA:O	9:3:715:VAL:HG23	2.21	0.40
10:4:292:ASP:C	10:4:293:LEU:HD12	2.42	0.40
10:4:340:PRO:HD3	12:6:452:ILE:HD12	2.02	0.40
10:4:346:PHE:N	10:4:389:CYS:HB3	2.36	0.40
10:4:631:ILE:N	10:4:672:LEU:O	2.52	0.40
10:4:566:LEU:HG	10:4:674:SER:HA	2.03	0.40
10:4:886:LEU:CD2	10:4:907:LEU:HD11	2.51	0.40
11:5:273:ASN:O	11:5:274:LEU:HD23	2.21	0.40
11:5:294:ILE:HG22	11:5:295:VAL:N	2.36	0.40
11:5:382:GLU:C	11:5:385:LYS:HB3	2.41	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:416:GLY:HA3	11:5:556:VAL:HB	2.04	0.40
11:5:659:ILE:HA	11:5:662:SER:HB3	2.02	0.40
12:6:274:HIS:ND1	12:6:288:LEU:HD11	2.35	0.40
12:6:585:LEU:HD21	12:6:679:LEU:HD22	2.03	0.40
12:6:685:VAL:HG22	12:6:700:ASN:HB2	1.98	0.40
12:6:720:ASN:HB3	12:6:723:ILE:HB	2.03	0.40
12:6:750:GLN:HA	12:6:753:ARG:NH1	2.31	0.40
12:6:759:ARG:CA	12:6:812:ARG:HH21	2.35	0.40
13:7:139:LEU:O	13:7:141:VAL:N	2.54	0.40
13:7:383:GLN:H	13:7:386:LYS:CE	2.34	0.40
13:7:470:LEU:HD22	13:7:522:CYS:SG	2.62	0.40
1:A:100:MET:CE	1:A:117:GLN:HG2	2.51	0.40
2:B:146:GLN:HB3	11:5:47:ARG:NH2	2.35	0.40
5:E:227:LYS:HA	5:E:230:ILE:HB	2.03	0.40
5:E:310:VAL:HA	5:E:311:LYS:C	2.42	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	206/208 (99%)	182 (88%)	23 (11%)	1 (0%)	34	77
2	B	177/213 (83%)	160 (90%)	17 (10%)	0	100	100
3	C	151/194 (78%)	142 (94%)	9 (6%)	0	100	100
4	D	215/294 (73%)	193 (90%)	20 (9%)	2 (1%)	21	66
5	E	543/650 (84%)	490 (90%)	51 (9%)	2 (0%)	39	80
8	2	596/868 (69%)	535 (90%)	54 (9%)	7 (1%)	16	61
9	3	579/971 (60%)	528 (91%)	48 (8%)	3 (0%)	34	77
10	4	670/933 (72%)	594 (89%)	69 (10%)	7 (1%)	19	64

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
11	5	583/775 (75%)	549 (94%)	30 (5%)	4 (1%)	26	71
12	6	596/1017 (59%)	528 (89%)	58 (10%)	10 (2%)	11	55
13	7	653/845 (77%)	583 (89%)	60 (9%)	10 (2%)	13	57
All	All	4969/6968 (71%)	4484 (90%)	439 (9%)	46 (1%)	26	66

All (46) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
5	E	601	ILE
10	4	189	GLU
10	4	419	VAL
10	4	609	VAL
11	5	596	ILE
12	6	317	ILE
13	7	544	GLN
8	2	291	SER
10	4	179	ILE
10	4	469	VAL
11	5	304	LYS
11	5	410	ILE
12	6	402	ILE
12	6	560	VAL
12	6	569	ILE
12	6	819	ILE
13	7	464	VAL
8	2	297	ILE
8	2	533	ILE
9	3	230	ILE
11	5	267	VAL
12	6	321	VAL
13	7	26	VAL
13	7	441	ASP
1	A	27	VAL
4	D	210	ASN
4	D	219	ILE
8	2	569	GLN
9	3	440	VAL
10	4	857	ILE
12	6	133	GLU
12	6	305	TYR
12	6	403	VAL

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Mol	Chain	Res	Type
13	7	140	ASP
13	7	502	VAL
12	6	533	ILE
10	4	322	ILE
13	7	138	VAL
8	2	303	ILE
8	2	585	ILE
5	E	98	ILE
9	3	389	VAL
13	7	248	VAL
13	7	642	ILE
13	7	708	VAL
8	2	842	VAL

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	193/193 (100%)	190 (98%)	3 (2%)	70	88
2	B	171/198 (86%)	170 (99%)	1 (1%)	90	95
3	C	144/173 (83%)	144 (100%)	0	100	100
4	D	213/279 (76%)	211 (99%)	2 (1%)	84	93
5	E	499/586 (85%)	496 (99%)	3 (1%)	90	95
8	2	508/770 (66%)	502 (99%)	6 (1%)	78	90
9	3	512/835 (61%)	506 (99%)	6 (1%)	78	90
10	4	610/848 (72%)	606 (99%)	4 (1%)	88	94
11	5	534/688 (78%)	528 (99%)	6 (1%)	80	91
12	6	486/886 (55%)	482 (99%)	4 (1%)	86	94
13	7	585/753 (78%)	581 (99%)	4 (1%)	88	94
All	All	4455/6209 (72%)	4416 (99%)	39 (1%)	85	93

All (39) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	105	ASN
1	A	151	LEU
1	A	168	LEU
2	B	118	ASN
4	D	183	HIS
4	D	216	VAL
5	E	27	LEU
5	E	33	CYS
5	E	601	ILE
8	2	234	LEU
8	2	314	LEU
8	2	437	ASN
8	2	588	GLU
8	2	604	CYS
8	2	695	LEU
9	3	95	ARG
9	3	248	SER
9	3	395	ASN
9	3	450	ARG
9	3	510	CYS
9	3	535	LEU
10	4	188	GLN
10	4	447	ASN
10	4	727	LEU
10	4	821	ASP
11	5	60	SER
11	5	302	ASN
11	5	303	SER
11	5	305	ASN
11	5	331	LEU
11	5	636	ASN
12	6	361	ILE
12	6	449	THR
12	6	548	LEU
12	6	677	SER
13	7	139	LEU
13	7	291	GLN
13	7	396	ASP
13	7	631	THR

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (50) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	39	ASN
1	A	90	GLN
1	A	104	ASN
1	A	117	GLN
2	B	167	HIS
3	C	101	ASN
3	C	133	GLN
3	C	136	ASN
3	C	137	HIS
4	D	217	ASN
5	E	52	GLN
5	E	55	GLN
5	E	133	ASN
5	E	138	GLN
5	E	155	GLN
5	E	286	GLN
5	E	436	ASN
5	E	493	ASN
5	E	624	ASN
8	2	621	HIS
9	3	49	ASN
9	3	177	ASN
9	3	351	ASN
9	3	688	ASN
10	4	184	ASN
10	4	260	GLN
10	4	266	GLN
10	4	354	HIS
10	4	410	GLN
10	4	646	HIS
10	4	691	ASN
11	5	67	HIS
11	5	254	GLN
11	5	305	ASN
11	5	500	GLN
11	5	625	ASN
12	6	357	GLN
12	6	458	HIS
12	6	658	GLN
12	6	669	HIS
13	7	89	GLN
13	7	90	ASN
13	7	145	GLN

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Mol	Chain	Res	Type
13	7	271	GLN
13	7	297	GLN
13	7	326	HIS
13	7	379	GLN
13	7	383	GLN
13	7	543	GLN
13	7	620	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

3 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
14	ATP	2	901	-	26,33,33	0.96	1 (3%)	26,52,52	1.85	2 (7%)
14	ATP	3	1001	-	26,33,33	0.95	1 (3%)	26,52,52	1.79	1 (3%)
14	ATP	5	801	-	26,33,33	0.94	1 (3%)	26,52,52	1.83	2 (7%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical

component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
14	ATP	2	901	-	-	0/18/38/38	0/3/3/3
14	ATP	3	1001	-	-	0/18/38/38	0/3/3/3
14	ATP	5	801	-	-	0/18/38/38	0/3/3/3

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	5	801	ATP	C5-C4	2.97	1.47	1.40
14	3	1001	ATP	C5-C4	2.98	1.47	1.40
14	2	901	ATP	C5-C4	3.10	1.47	1.40

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	5	801	ATP	N3-C2-N1	-7.70	122.82	128.87
14	2	901	ATP	N3-C2-N1	-7.69	122.83	128.87
14	3	1001	ATP	N3-C2-N1	-7.45	123.02	128.87
14	5	801	ATP	C2-N1-C6	2.04	122.41	118.77
14	2	901	ATP	C2-N1-C6	2.31	122.88	118.77

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

3 monomers are involved in 29 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
14	2	901	ATP	12	0
14	3	1001	ATP	5	0
14	5	801	ATP	12	0

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.