



Full wwPDB EM Validation Report ⓘ

Mar 8, 2026 – 04:59 PM UTC

PDB ID : 5U8S / pdb_00005u8s
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 EM Validation Report for a publicly released PDB entry.

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

A user guide is available at

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

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev132
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

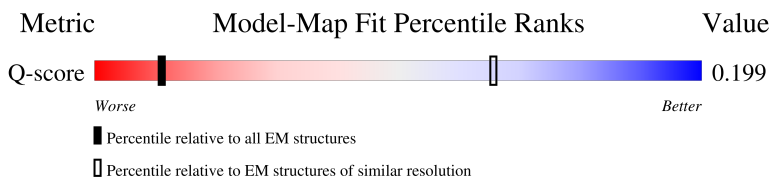
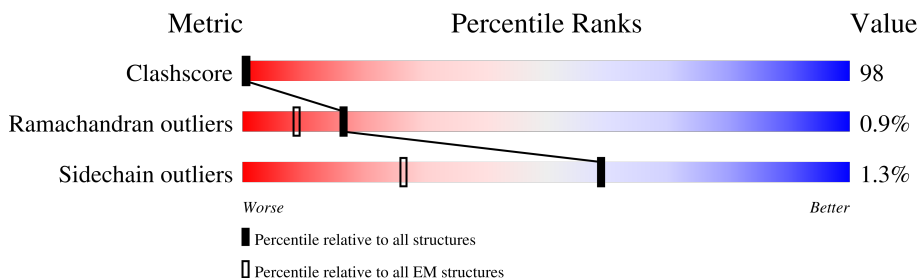
1 Overall quality at a glance

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.



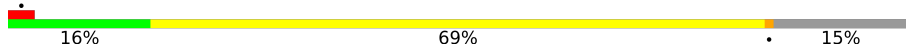
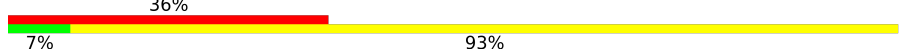
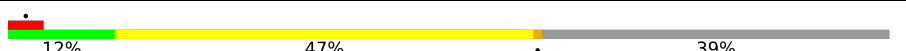
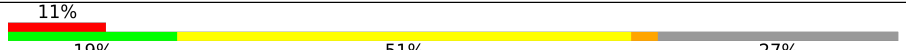
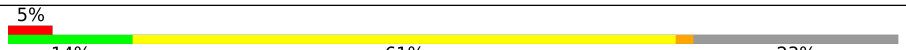
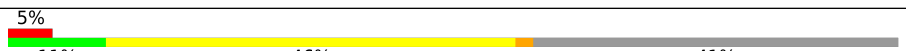
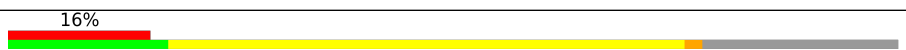
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	531 (5.60 - 6.60)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	208	
2	B	213	
3	C	194	
4	D	294	

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Mol	Chain	Length	Quality of chain
5	E	650	
6	F	26	
7	G	14	
8	2	868	
9	3	971	
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		

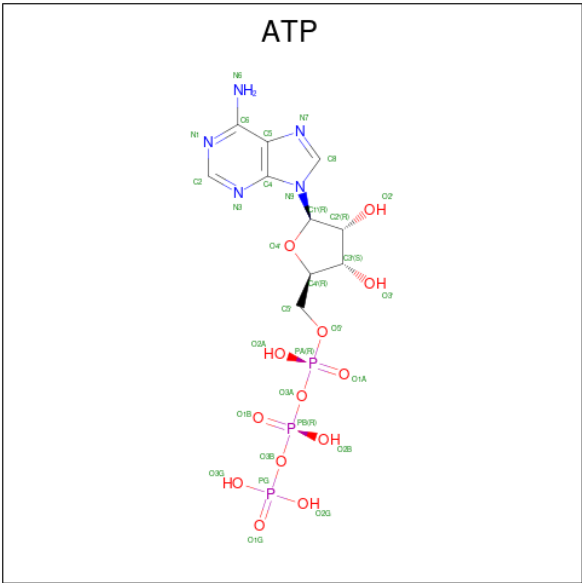
- Molecule 12 is a protein called DNA replication licensing factor MCM6.

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
			Total	C	N	O	S		
13	7	663	5220	3290	904	996	30	0	0

- Molecule 14 is ADENOSINE-5'-TRIPHOSPHATE (CCD ID: ATP) (formula: C₁₀H₁₆N₅O₁₃P₃).

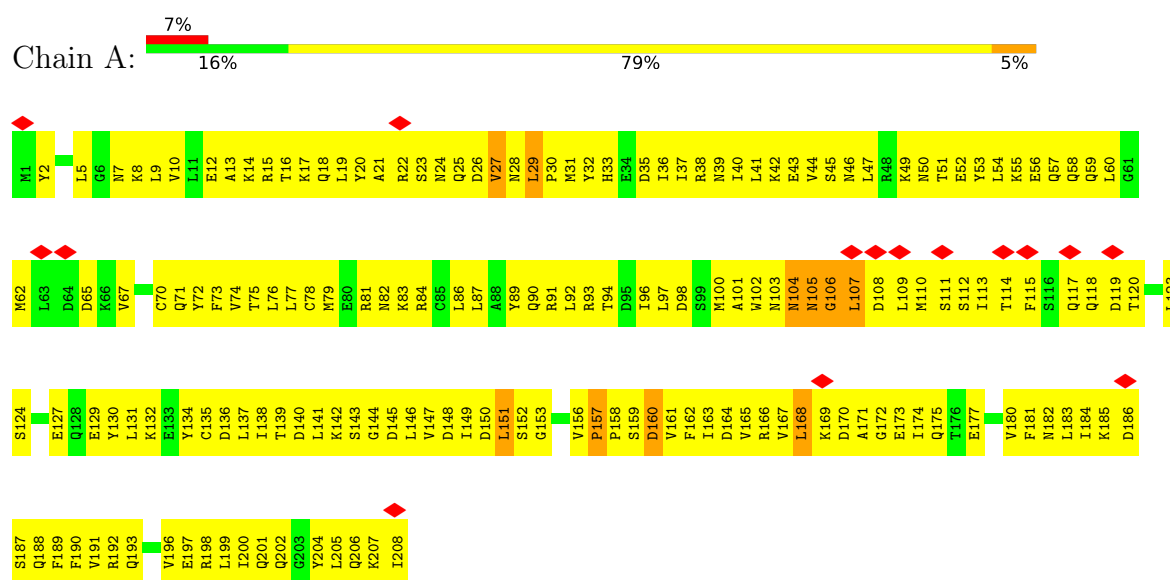


Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
14	2	1	31	10	5	13	3	0
14	3	1	31	10	5	13	3	0
14	5	1	31	10	5	13	3	0

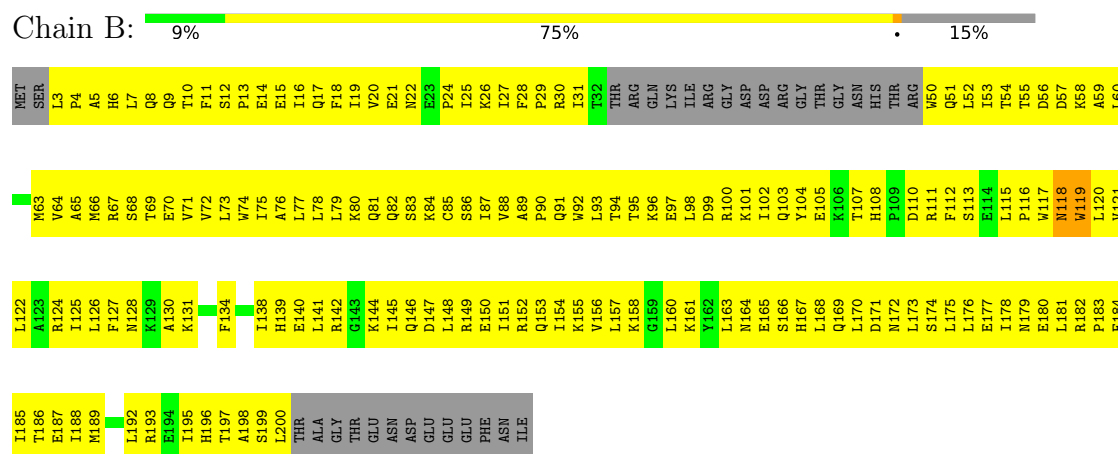
3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

• Molecule 1: DNA replication complex GINS protein PSF1

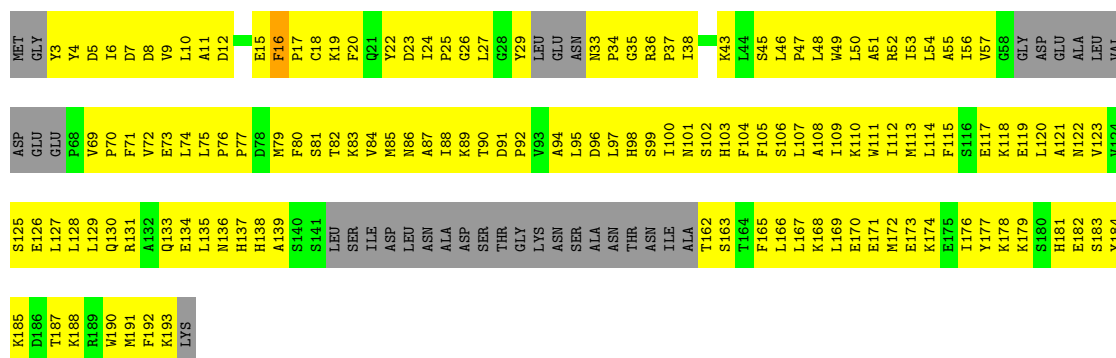


• Molecule 2: DNA replication complex GINS protein PSF2



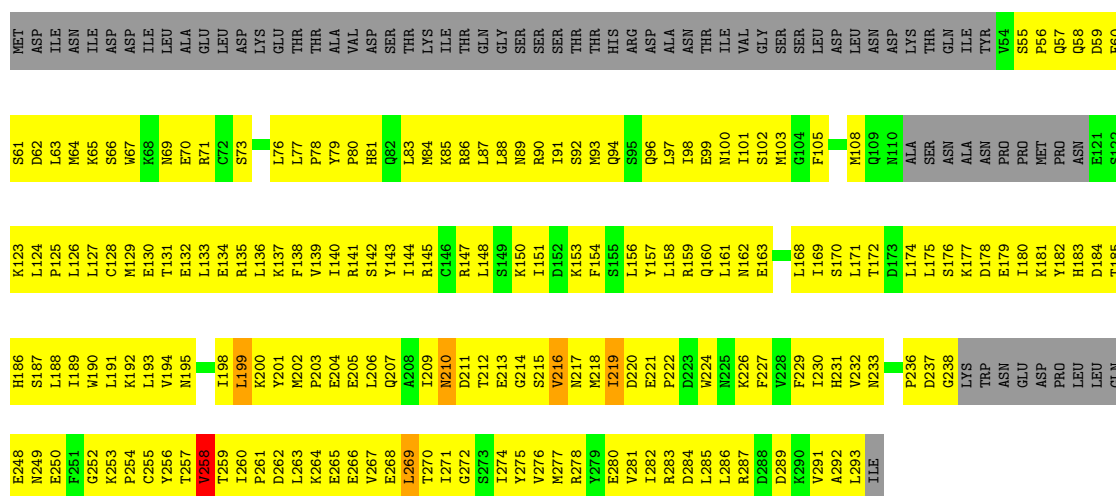
• Molecule 3: DNA replication complex GINS protein PSF3





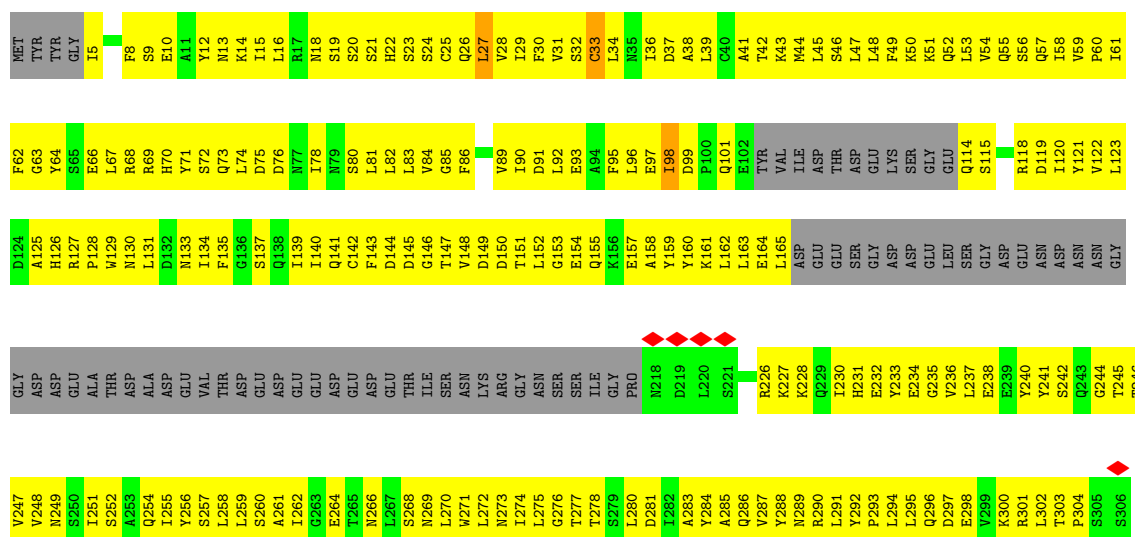
• Molecule 4: DNA replication complex GINS protein SLD5

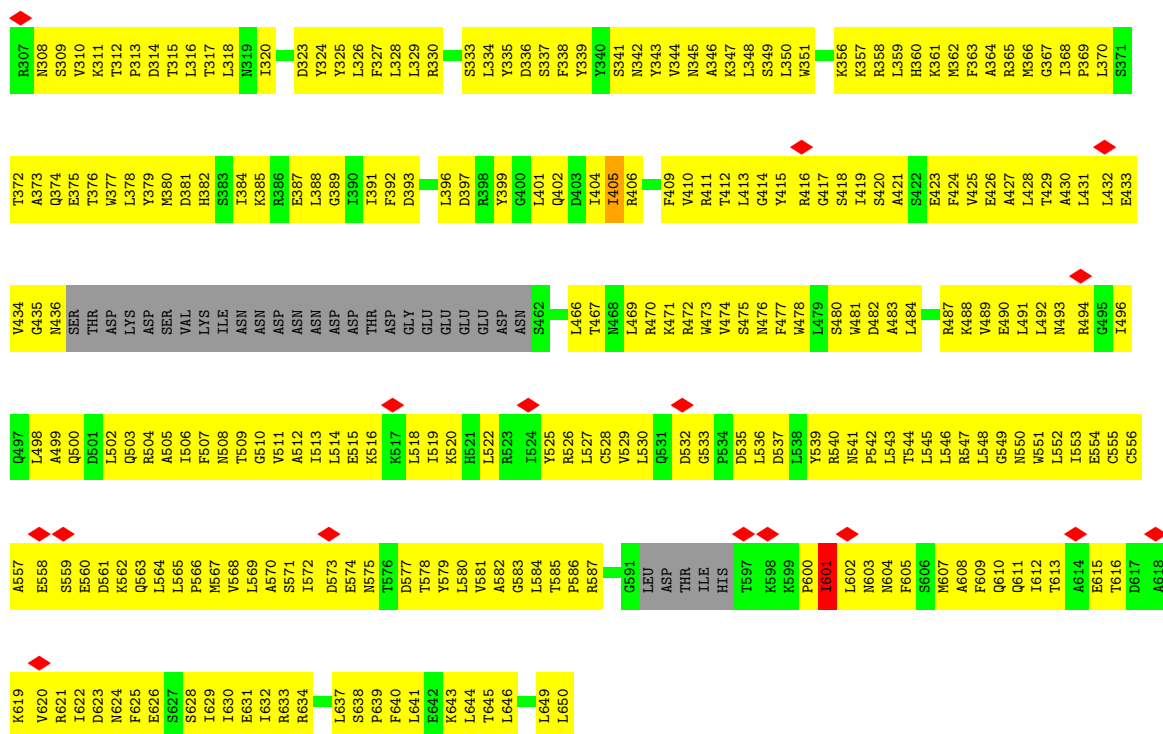
Chain D: 12% 61% 25%



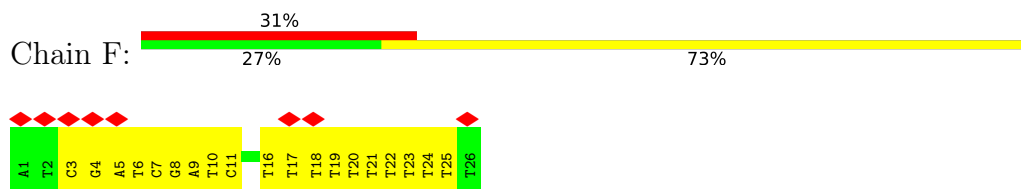
• Molecule 5: Cell division control protein 45

Chain E: 16% 69% 15%

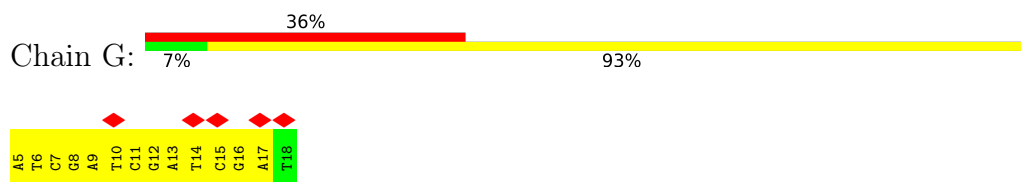




• Molecule 6: DNA (26-MER)

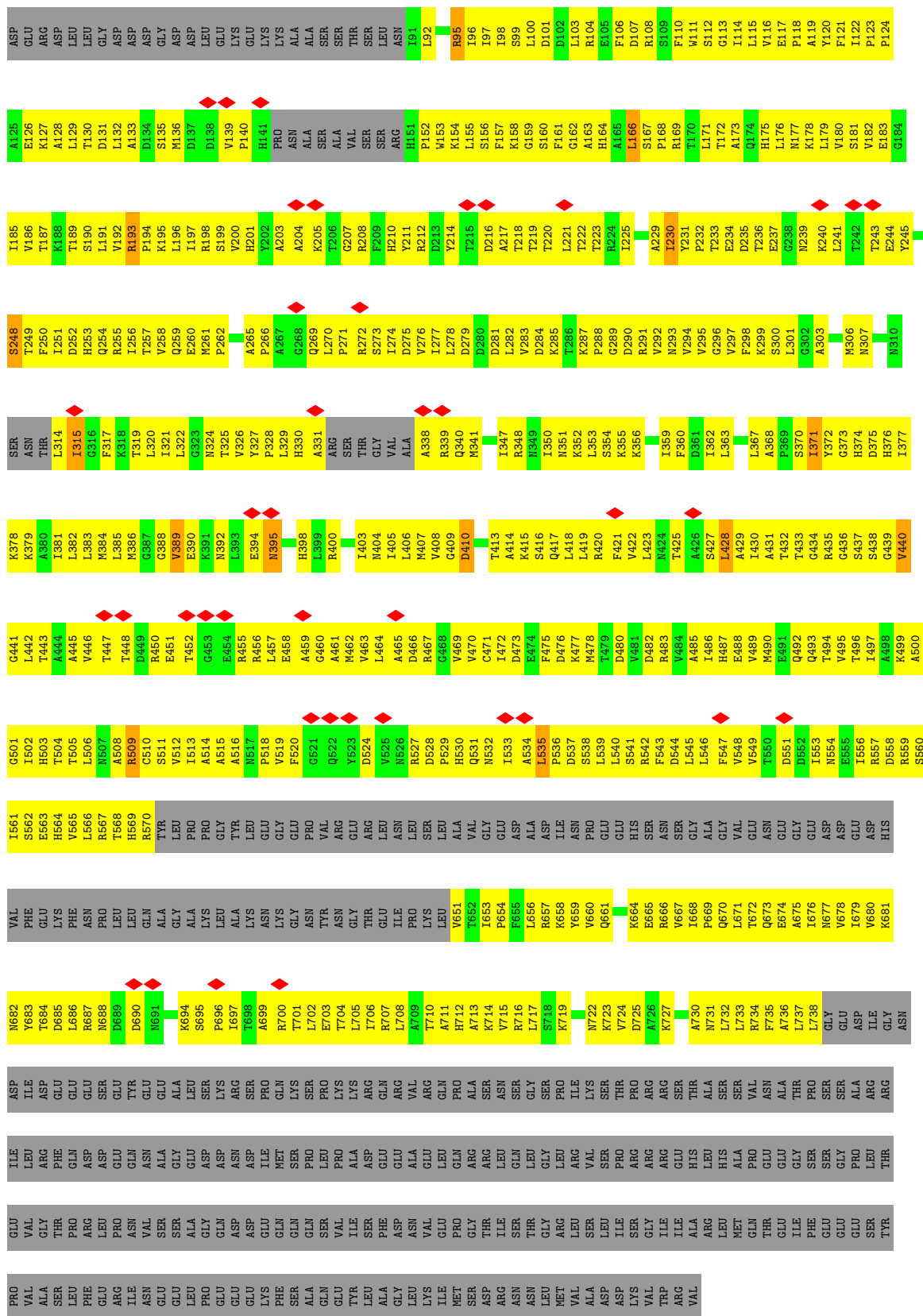


• Molecule 7: DNA (5'-D(P*AP*TP*CP*GP*AP*TP*CP*GP*AP*TP*CP*GP*AP*T)-3')



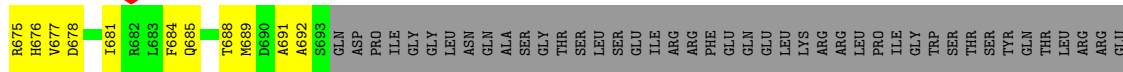
• Molecule 8: DNA replication licensing factor MCM2





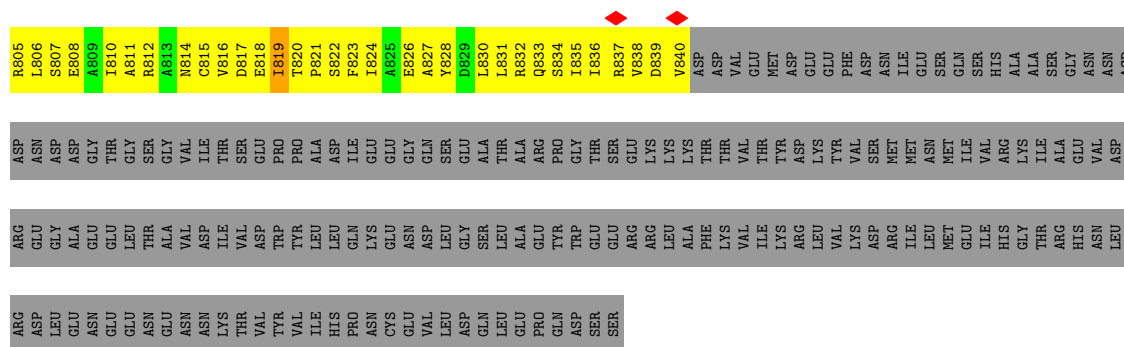
- Molecule 10: DNA replication licensing factor MCM4



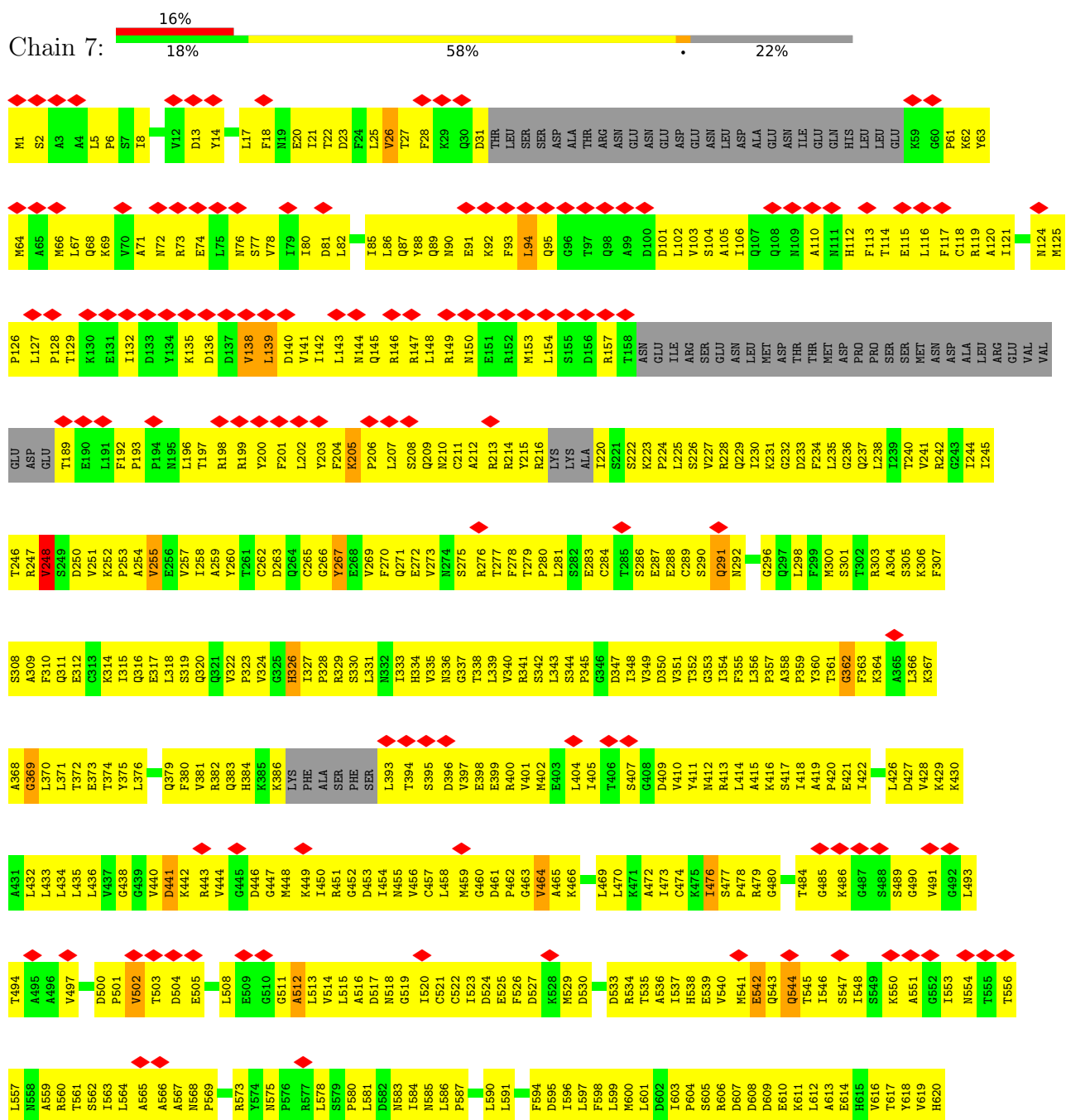


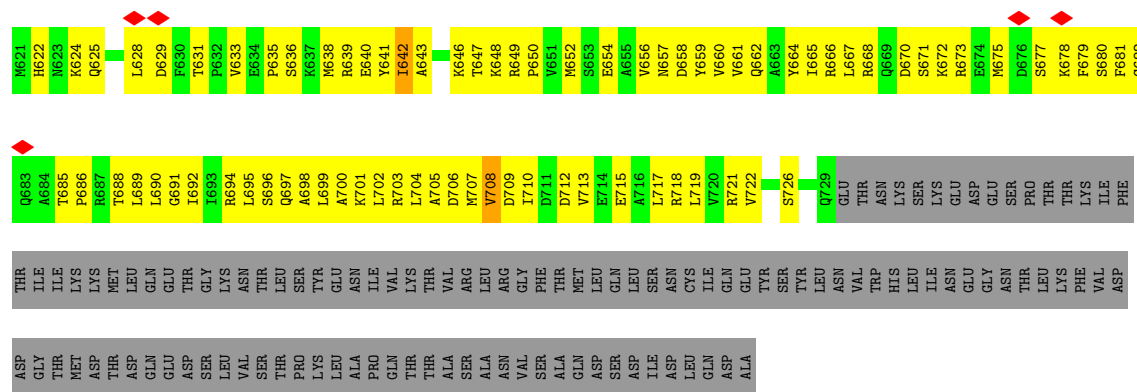
Chain 6:





• Molecule 13: DNA replication licensing factor MCM7





4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	243796	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	10	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.079	Depositor
Minimum map value	-0.033	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.004	Depositor
Recommended contour level	0.02	Depositor
Map size ($\text{\AA}$)	332.8, 332.8, 332.8	wwPDB
Map dimensions	256, 256, 256	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.3, 1.3, 1.3	Depositor

5 Model quality

5.1 Standard geometry

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	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.32	0/1718	0.87	7/2314 (0.3%)
2	B	0.31	0/1545	0.84	1/2092 (0.0%)
3	C	0.29	0/1320	0.77	2/1784 (0.1%)
4	D	0.31	0/1853	0.86	5/2500 (0.2%)
5	E	0.28	0/4563	0.78	0/6173
6	F	0.22	0/585	0.46	0/901
7	G	0.18	0/321	0.34	0/493
8	2	0.32	0/4787	0.95	19/6469 (0.3%)
9	3	0.32	0/4717	0.85	11/6393 (0.2%)
10	4	0.32	0/5480	0.89	19/7395 (0.3%)
11	5	0.31	0/4750	0.86	12/6412 (0.2%)
12	6	0.33	0/4719	0.88	7/6373 (0.1%)
13	7	0.31	0/5299	0.88	11/7160 (0.2%)
All	All	0.31	0/41657	0.86	94/56459 (0.2%)

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
4	D	0	1
9	3	0	1
10	4	0	2
12	6	0	3
13	7	0	1
All	All	0	9

There are no bond length outliers.

All (94) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	2	371	GLY	CA-C-N	14.37	137.81	119.84
8	2	371	GLY	C-N-CA	14.37	137.81	119.84
8	2	366	ASN	CA-C-N	9.02	137.94	121.70
8	2	366	ASN	C-N-CA	9.02	137.94	121.70
13	7	362	GLY	N-CA-C	9.02	121.24	112.04
8	2	583	ASP	CA-C-N	8.73	128.06	118.97
8	2	583	ASP	C-N-CA	8.73	128.06	118.97
8	2	364	CYS	N-CA-C	7.90	119.03	107.88
13	7	94	LEU	N-CA-C	7.57	119.43	111.03
12	6	333	CYS	CA-C-N	7.57	127.73	120.31
12	6	333	CYS	C-N-CA	7.57	127.73	120.31
1	A	157	PRO	CA-C-N	7.01	126.77	119.76
1	A	157	PRO	C-N-CA	7.01	126.77	119.76
10	4	714	GLU	N-CA-C	7.01	119.95	111.40
10	4	759	HIS	CA-C-N	6.99	126.75	119.76
10	4	759	HIS	C-N-CA	6.99	126.75	119.76
13	7	369	GLY	N-CA-C	6.81	133.04	113.30
8	2	358	GLU	N-CA-C	6.73	118.79	110.91
10	4	376	CYS	CA-C-N	6.58	133.54	121.70
10	4	376	CYS	C-N-CA	6.58	133.54	121.70
10	4	178	ARG	CB-CA-C	-6.22	108.39	115.79
1	A	106	GLY	N-CA-C	6.21	131.32	113.30
11	5	419	GLY	N-CA-C	-6.21	106.57	115.64
10	4	402	THR	CA-C-N	6.18	125.87	119.82
10	4	402	THR	C-N-CA	6.18	125.87	119.82
10	4	264	TYR	CA-C-N	6.17	125.90	119.05
10	4	264	TYR	C-N-CA	6.17	125.90	119.05
10	4	856	VAL	N-CA-C	6.17	116.22	110.42
4	D	255	CYS	N-CA-C	6.07	116.44	107.88
13	7	675	MET	CB-CA-C	-6.05	109.01	117.23
10	4	442	ILE	CA-C-N	6.01	125.98	120.03
10	4	442	ILE	C-N-CA	6.01	125.98	120.03
12	6	645	ASP	CB-CA-C	-5.99	108.67	115.79
4	D	55	SER	CA-C-N	5.89	126.04	119.32
4	D	55	SER	C-N-CA	5.89	126.04	119.32
1	A	104	ASN	CA-C-N	-5.83	114.15	122.77
1	A	104	ASN	C-N-CA	-5.83	114.15	122.77
11	5	239	ASP	CA-C-N	5.76	125.43	119.56
11	5	239	ASP	C-N-CA	5.76	125.43	119.56
9	3	670	GLN	CB-CA-C	-5.75	109.96	116.63
8	2	584	PRO	CA-C-N	5.69	131.94	121.70
8	2	584	PRO	C-N-CA	5.69	131.94	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	29	LEU	CA-C-N	5.68	125.80	119.32
1	A	29	LEU	C-N-CA	5.68	125.80	119.32
8	2	263	CYS	CA-C-N	5.60	125.28	119.56
8	2	263	CYS	C-N-CA	5.60	125.28	119.56
10	4	685	ASN	CB-CA-C	-5.54	110.17	116.54
9	3	166	LEU	N-CA-C	5.52	117.66	110.43
8	2	661	LEU	CA-C-N	5.51	125.52	119.90
8	2	661	LEU	C-N-CA	5.51	125.52	119.90
9	3	371	ILE	N-CA-C	5.49	115.85	108.17
12	6	342	ALA	CB-CA-C	-5.48	110.27	116.63
11	5	593	GLU	N-CA-C	5.48	117.96	110.24
10	4	763	THR	CB-CA-C	-5.45	108.72	116.34
8	2	412	ALA	CB-CA-C	-5.42	110.34	116.63
4	D	258	VAL	CA-C-N	5.42	131.46	121.70
4	D	258	VAL	C-N-CA	5.42	131.46	121.70
13	7	542	GLU	N-CA-C	-5.40	105.95	112.54
10	4	659	ALA	CB-CA-C	-5.40	110.37	116.63
13	7	267	TYR	CB-CA-C	-5.34	108.86	116.34
9	3	497	ILE	N-CA-C	5.33	115.72	107.78
10	4	714	GLU	CA-C-N	5.33	131.28	121.70
10	4	714	GLU	C-N-CA	5.33	131.28	121.70
3	C	16	PHE	CA-C-N	5.31	126.47	119.84
3	C	16	PHE	C-N-CA	5.31	126.47	119.84
8	2	298	SER	N-CA-C	5.30	115.13	108.45
9	3	208	ARG	CB-CA-C	-5.23	108.99	115.89
8	2	502	ALA	CA-C-N	5.22	125.28	119.32
8	2	502	ALA	C-N-CA	5.22	125.28	119.32
8	2	584	PRO	CA-C-O	-5.21	112.48	120.03
9	3	193	ARG	CA-C-N	5.19	124.95	119.76
9	3	193	ARG	C-N-CA	5.19	124.95	119.76
11	5	524	ASN	CA-C-N	5.18	125.08	119.85
11	5	524	ASN	C-N-CA	5.18	125.08	119.85
11	5	82	GLU	CA-C-N	5.17	125.22	119.32
11	5	82	GLU	C-N-CA	5.17	125.22	119.32
10	4	559	ARG	CB-CA-C	-5.17	109.06	115.89
13	7	326	HIS	CB-CA-C	-5.17	109.10	116.34
9	3	668	ILE	CA-C-N	5.16	125.23	119.87
9	3	668	ILE	C-N-CA	5.16	125.23	119.87
11	5	87	ILE	CB-CA-C	-5.14	108.82	113.70
13	7	275	SER	CB-CA-C	-5.13	109.15	116.34
11	5	280	ARG	CB-CA-C	-5.12	110.27	117.23
13	7	205	LYS	CA-C-N	5.12	125.09	120.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	7	205	LYS	C-N-CA	5.12	125.09	120.03
2	B	119	TRP	N-CA-C	5.10	117.58	111.71
12	6	411	GLY	N-CA-C	-5.09	107.96	115.30
12	6	579	THR	N-CA-C	-5.09	107.02	113.18
12	6	766	THR	N-CA-C	-5.08	106.77	113.17
11	5	400	LEU	CA-C-N	5.07	125.07	119.90
11	5	400	LEU	C-N-CA	5.07	125.07	119.90
13	7	512	ALA	CB-CA-C	-5.03	110.39	117.23
9	3	410	ASP	CA-C-N	5.01	125.00	119.89
9	3	410	ASP	C-N-CA	5.01	125.00	119.89

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 [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1696	0	1698	442	0
2	B	1513	0	1558	370	0
3	C	1288	0	1298	293	0
4	D	1820	0	1824	466	0
5	E	4482	0	4499	929	0
6	F	527	0	303	50	0
7	G	287	0	159	16	0
8	2	4707	0	4721	1043	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
9	3	4638	0	4701	935	0
10	4	5410	0	5491	1010	0
11	5	4688	0	4748	1017	0
12	6	4649	0	4589	1076	0
13	7	5220	0	5296	926	0
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	7987	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 98.

All (7987) 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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
9:3:314:LEU:HA	11:5:201:THR:HA	1.34	1.09
9:3:486:ILE:HA	9:3:489:VAL:HB	1.32	1.09
8:2:322:GLY:HA3	8:2:390:LEU:HD21	1.28	1.08
1:A:67:VAL:HG11	3:C:25:PRO:HD2	1.34	1.08
1:A:108:ASP:HB3	1:A:109:LEU:HB3	1.12	1.08
12:6:560:VAL:HB	12:6:561:GLU:HA	1.33	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
10:4:233:MET:HE3	10:4:239:SER:HA	1.32	1.08
5:E:346:ALA:HB2	5:E:555:CYS:HA	1.33	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
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
12:6:656:MET:HB3	12:6:708:ARG:HG2	1.34	1.07
3:C:12:ASP:HA	3:C:48:LEU:HB3	1.32	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
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
4:D:76:LEU:HD22	4:D:151:ILE:HD11	1.31	1.06
8:2:777:LYS:H	8:2:828:PHE:HA	1.17	1.06
13:7:311:GLN:HB3	13:7:335:VAL:HB	1.36	1.06
4:D:230:ILE:HA	4:D:293:LEU:HA	1.32	1.06
8:2:266:GLU:HA	8:2:269:LYS:HB3	1.34	1.06
9:3:386:MET:HB3	9:3:714:LYS:HD2	1.27	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
10:4:592:SER:HA	10:4:632:ASP:HB2	1.36	1.05
12:6:810:ILE:HD11	12:6:827:ALA:HB2	1.37	1.05
3:C:137:HIS:HA	11:5:55:LEU:HD13	1.38	1.05
12:6:151:ILE:HD11	12:6:265:ILE:HG23	1.32	1.05
5:E:25:CYS:HB3	5:E:26:GLN:HA	1.37	1.04
8:2:813:ILE:HD12	8:2:841:VAL:HG21	1.37	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
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
1:A:129:GLU:HA	1:A:132:LYS:HE3	1.39	1.04
8:2:268:LEU:HA	8:2:271:PHE:HB3	1.37	1.04
10:4:762:ILE:HD11	12:6:736:MET:HE1	1.36	1.04
11:5:264:LEU:HB2	11:5:265:VAL:HG22	1.40	1.04
8:2:423:GLU:HB2	8:2:459:ARG:HB2	1.36	1.04
11:5:302:ASN:CG	11:5:324:ARG:HG2	1.83	1.04
5:E:513:ILE:HG23	5:E:518:LEU:HD12	1.34	1.03
11:5:75:ILE:HA	11:5:78:LYS:HB3	1.39	1.03
1:A:7:ASN:HA	1:A:10:VAL:HG12	1.40	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
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
10:4:777:MET:HE1	10:4:833:ILE:HD11	1.38	1.02
4:D:145:ARG:HA	4:D:148:LEU:HD12	1.41	1.02
11:5:302:ASN:OD1	11:5:324:ARG:NE	1.93	1.02
4:D:220:ASP:HB3	4:D:221:GLU:HG2	1.38	1.02
9:3:441:GLY:HA3	9:3:462:MET:HB3	1.40	1.02
1:A:58:GLN:HA	1:A:62:MET:HB2	1.40	1.02
5:E:34:LEU:HD11	5:E:543:LEU:HD11	1.36	1.01
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:501:ILE:HD13	10:4:749:MET:HE3	1.43	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
5:E:316:LEU:HD11	5:E:414:GLY:HA3	1.42	1.01
11:5:86:ILE:HG23	11:5:89:LEU:HD12	1.42	1.01
10:4:758:ILE:HD11	10:4:813:LEU:HD23	1.41	1.00
11:5:415:LEU:HD11	11:5:555:ILE:HG12	1.42	1.00
9:3:339:ARG:H	9:3:340:GLN:HB2	1.25	1.00
13:7:529:MET:HE1	13:7:537:ILE:HD12	1.42	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
9:3:413:THR:HG23	9:3:549:VAL:HG11	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
8:2:630:SER:HB2	11:5:444:SER:HA	1.39	1.00
9:3:368:ALA:HB1	9:3:371:ILE:HB	1.38	1.00
1:A:29:LEU:HD21	1:A:96:ILE:HG21	1.44	1.00
10:4:303:VAL:HG12	10:4:305:PRO:HD3	1.43	1.00
3:C:18:CYS:HB3	3:C:74:LEU:HA	1.44	0.99
12:6:143:MET:HE1	12:6:148:LEU:HB2	1.40	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
8:2:525:LYS:HZ1	11:5:577:THR:H	1.03	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
5:E:345:ASN:HA	5:E:350:LEU:HG	1.43	0.97
8:2:231:ILE:HG23	8:2:279:THR:HG23	1.43	0.97
1:A:123:LEU:HD21	1:A:127:GLU:HB2	1.44	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
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
1:A:108:ASP:HB3	1:A:109:LEU:CB	1.93	0.97
13:7:513:LEU:HD13	13:7:540:VAL:HG21	1.45	0.97
5:E:577:ASP:HB2	5:E:633:ARG:HE	1.30	0.96
11:5:276:MET:HB3	11:5:330:ILE:HD11	1.46	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
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
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
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
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
10:4:377:ASN:CB	10:4:378:GLU:HA	1.96	0.95
13:7:94:LEU:CB	13:7:95:GLN:HB2	1.96	0.95
13:7:543:GLN:HG3	13:7:544:GLN:H	1.29	0.95
2:B:12:SER:HB3	2:B:15:GLU:HG3	1.49	0.95
11:5:414:LEU:HD13	11:5:422:LYS:HB2	1.46	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
4:D:200:LYS:HB2	4:D:201:TYR:HB2	1.48	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
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
2:B:170:LEU:HD11	4:D:276:VAL:HG23	1.49	0.93
8:2:794:ARG:HG2	8:2:798:ILE:HD11	1.45	0.93
9:3:371:ILE:HD11	11:5:404:MET:HE1	1.49	0.93
5:E:292:TYR:HB2	5:E:293:PRO:HD3	1.50	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
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
1:A:168:LEU:HD11	1:A:206:GLN:HB2	1.50	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
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
13:7:459:MET:HE3	13:7:584:ILE:HG12	1.47	0.93
12:6:175:TYR:HA	12:6:178:LEU:HD13	1.49	0.93
1:A:149:ILE:HA	1:A:150:ASP:HB2	1.49	0.92
8:2:207:ILE:HG22	8:2:211:LEU:HD23	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
5:E:308:ASN:HA	5:E:309:SER:HB2	1.50	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
1:A:46:ASN:HA	1:A:49:LYS:HE3	1.48	0.92
10:4:342:MET:HB3	10:4:360:ILE:HG12	1.51	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:31:MET:HE3	1:A:33:HIS:HA	1.52	0.92
1:A:108:ASP:CB	1:A:109:LEU:HB3	1.99	0.92
9:3:194:PRO:HG3	13:7:374:THR:HG22	1.52	0.92
10:4:714:GLU:N	10:4:715:LYS:HB3	1.83	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
5:E:64:TYR:HB2	5:E:625:PHE:HA	1.52	0.91
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:381:ASP:HB2	5:E:384:ILE:HG13	1.50	0.91
9:3:673:GLN:HA	9:3:676:ILE:HD13	1.52	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
8:2:705:ARG:HB2	12:6:559:THR:HB	1.49	0.91
10:4:530:ILE:HG21	10:4:533:LEU:HD11	1.49	0.91
4:D:195:ASN:HA	4:D:199:LEU:HD12	1.51	0.91
9:3:100:LEU:HG	9:3:157:PHE:HB3	1.52	0.91
12:6:143:MET:HE2	12:6:150:THR:H	1.35	0.91
10:4:342:MET:HE3	12:6:448:LEU:HD22	1.53	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
5:E:149:ASP:N	5:E:150:ASP:HA	1.83	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
8:2:523:VAL:HG12	8:2:525:LYS:HB3	1.52	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
10:4:512:VAL:HG22	10:4:515:ARG:HH12	1.33	0.90
10:4:234:ARG:HB3	10:4:280:MET:HE1	1.53	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
11:5:485:MET:HE3	11:5:490:ARG:HG3	1.51	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
8:2:562: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
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
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
4:D:256:TYR:HB2	4:D:257:THR:CG2	2.03	0.89
9:3:404:ASN:HD22	9:3:490:MET:HE3	1.36	0.89
13:7:581:LEU:HB2	13:7:681:PHE:CE1	2.07	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
8:2:541:LEU:HD22	8:2:649:ALA:HB1	1.55	0.89
8:2:639:THR:HA	11:5:445:SER:HB3	1.55	0.89
12:6:803:MET:HE1	12:6:828:TYR:HA	1.55	0.89
4:D:191:LEU:HA	4:D:194:VAL:HG12	1.53	0.89
12:6:561:GLU:N	12:6:562:GLY:HA3	1.87	0.89
11:5:349:PHE:HB3	11:5:601:ARG:HH21	1.37	0.88
5:E:380:MET:HB2	5:E:385:LYS:HE2	1.54	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
10:4:794:THR:HG22	10:4:797:GLN:HG2	1.55	0.88
2:B:28:PHE:HB2	2:B:86:SER:HB2	1.55	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:17:LEU:HD23	13:7:102:LEU:HD23	1.56	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
2:B:51:GLN:H	2:B:52:LEU:HA	1.35	0.87
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
11:5:69:ILE:HD11	11:5:73:GLU:HG2	1.54	0.87
11:5:440:SER:HA	11:5:480:ASP:HB2	1.55	0.87
13:7:193:PRO:HG2	13:7:196:LEU:HB2	1.55	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
8:2:498:ILE:HG21	8:2:509:ARG:HG3	1.53	0.87
9:3:410:ASP:HB2	9:3:551:ASP:HB2	1.57	0.87
9:3:463:VAL:HG22	9:3:495:VAL:HG21	1.55	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
5:E:150:ASP:H	5:E:152:LEU:HB3	1.37	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
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
8:2:501:MET:HE1	8:2:516:ALA:HB2	1.56	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
6:F:21:DT:H5"	11:5:506:LYS:HD3	1.57	0.86
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
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
8:2:631:ILE:N	11:5:445:SER:O	2.06	0.86
11:5:320:GLY:H	11:5:323:ILE:HB	1.38	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
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
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
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
10:4:774:TYR:HB2	10:4:801:MET:HE1	1.57	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
8:2:635:GLY:HA3	11:5:465:GLU:HG2	1.55	0.86
10:4:683:ASN:HD21	10:4:686:LEU:HD22	1.40	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:29:LEU:HD11	1:A:96:ILE:HG12	1.59	0.85
1:A:147:VAL:H	1:A:148:ASP:HA	1.39	0.85
13:7:149:ARG:HG3	13:7:153:MET:HE3	1.58	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
13:7:458:LEU:HD13	13:7:600:MET:HE1	1.58	0.84
1:A:145:ASP:HA	1:A:146:LEU: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
5:E:30:PHE:HE2	5:E:81:LEU:HD11	1.41	0.84
5:E:244:GLY:HA3	5:E:602: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
4:D:98:ILE:HG21	4:D:129:MET:HG2	1.58	0.84
5:E:85:GLY:N	5:E:123:LEU:O	2.11	0.84
5:E:413:LEU:HG	5:E:416:ARG:HB2	1.60	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
1:A:100:MET:HG3	1:A:104:ASN:ND2	1.93	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:173:GLU:HA	1:A:183:LEU:HD23	1.60	0.84
5:E:36:ILE:HA	5:E:39:LEU:HG	1.59	0.84
5:E:344:VAL:HG13	5:E:348:LEU:HD12	1.60	0.84
5:E:561:ASP:HB3	5:E:562:LYS:HG2	1.59	0.84
9:3:158:LYS:HA	9:3:327:TYR:CE2	2.13	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
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
10:4:626: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
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
1:A:78:CYS:HA	1:A:81:ARG:HB3	1.61	0.83
8:2:624:MET:HG2	8:2:646:ILE:HD12	1.60	0.83
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
4:D:216:VAL:CG2	4:D:219:ILE:HG13	2.08	0.83
8:2:459:ARG:CA	8:2:460:GLU:HB2	2.04	0.83
8:2:543:GLY:HA3	8:2:549:LYS:HZ3	1.41	0.83
11:5:148:LEU:HG	11:5:272:ARG:HD2	1.58	0.83
4:D:200:LYS:CB	4:D:201:TYR:HB2	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
1:A:173:GLU:HB3	1:A:183:LEU:H	1.42	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: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
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:110:MET:N	1:A:111:SER:HA	1.92	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:170:LEU:HB2	4:D:274:ILE:CG1	2.06	0.83
9:3:367:LEU:HD12	9:3:378:LYS:HB3	1.61	0.83
9:3:408:VAL:HA	9:3:415:LYS:HZ3	1.42	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
3:C:18:CYS:CB	3:C:74:LEU:HA	2.09	0.83
3:C:55:ALA:HB1	3:C:70:PRO:HB2	1.61	0.83
4:D:216:VAL:HG13	4:D:217:ASN:CA	2.03	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
12:6:640:GLU:HB3	12:6:643:LYS:HG2	1.60	0.82
2:B:113:SER:O	2:B:172:ASN:ND2	2.12	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
12:6:532:SER:HA	12:6:744:PRO:HB2	1.60	0.82
12:6:640:GLU:HA	12:6:682:ALA:HA	1.61	0.82
4:D:286:LEU:HD21	4:D:293:LEU:HD21	1.60	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
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
12:6:794:ARG:HB2	12:6:795:ILE:C	2.03	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
1:A:97:LEU:HD13	1:A:123:LEU:HD11	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: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
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: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
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
4:D:250:GLU:HG3	4:D:256:TYR:HD2	1.44	0.82
8:2:573:ALA:HB1	12:6:669:HIS:HA	1.60	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:703:ALA:O	12:6:707:SER:N	2.12	0.82
2:B:71:VAL:HB	2:B:75:ILE:HD11	1.61	0.82
9:3:530:HIS:HA	9:3:533:ILE:HD12	1.62	0.82
4:D:220:ASP:HA	4:D:222:PRO:HD2	1.62	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
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
12:6:115:PHE:HA	12:6:118:PHE:HB3	1.62	0.81
12:6:118:PHE:CZ	12:6:158:LEU:HA	2.15	0.81
1:A:117:GLN:HE22	1:A:131:LEU:HD21	1.45	0.81
2:B:140:GLU:O	2:B:144:LYS:HG2	1.80	0.81
4:D:232:VAL:HG12	4:D:271:ILE:HG22	1.62	0.81
4:D:259:THR:HG21	4:D:268:GLU:HA	1.63	0.81
8:2:382:TYR:HB2	11:5:153:SER:HB2	1.63	0.81
10:4:204:LYS:HA	10:4:207:LYS:HD3	1.60	0.81
10:4:712:VAL:HG22	13:7:672:LYS:HZ2	1.45	0.81
11:5:45:ILE:HG13	11:5:46:TYR:H	1.45	0.81
11:5:361:SER:HA	11:5:366:LEU:HD22	1.62	0.81
12:6:706:MET:HA	12:6:712:PHE:CZ	2.15	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
13:7:541:MET:HE3	13:7:594:PHE:HE1	1.45	0.81
2:B:187:GLU:HB2	3:C:179:LYS:HZ3	1.45	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
8:2:667: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:80:PRO:HG2	4:D:84:MET:HE3	1.62	0.81
5:E:624:ASN:HB3	5:E:629:ILE:HG23	1.63	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:226:SER:HB3	13:7:229:GLN:HG2	1.62	0.81
2:B:25:ILE:N	2:B:71:VAL:O	2.14	0.81
5:E:362:MET:HE1	5:E:396:LEU:HD13	1.61	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
4:D:176:SER:HB3	4:D:179:GLU:HG3	1.62	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
1:A:168:LEU:HD11	1:A:206:GLN:CB	2.11	0.81
1:A:169:LYS:N	1:A:185:LYS:HD3	1.95	0.81
3:C:135:LEU:HA	3:C:138:HIS:HD2	1.46	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: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
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
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
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
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
12:6:399:GLY:HA2	12:6:454:PHE:CZ	2.16	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
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
5:E:572:ILE:HD13	5:E:579:TYR:H	1.47	0.80
1:A:199:LEU:HB2	1:A:205:LEU:HD11	1.63	0.80
5:E:81:LEU:HB3	5:E:120:ILE:HG13	1.63	0.80
5:E:436:ASN:HD22	5:E:472:ARG:HD2	1.44	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:94:LEU:HB2	13:7:95:GLN:CB	2.08	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
5:E:557:ALA:HA	5:E:560:GLU:HG2	1.62	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:431:LEU:HD13	5:E:480:SER:HA	1.63	0.80
5:E:434:VAL:HG22	5:E:435:GLY:H	1.45	0.80
8:2:315:SER:N	8:2:430:TYR:O	2.14	0.80
8:2:409:ILE:HD11	8:2:450:ILE:HG22	1.62	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
4:D:214:GLY:CA	4:D:216:VAL:HA	2.11	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
8:2:335:LYS:HD2	8:2:383:ARG:NH1	1.96	0.80
8:2:437:ASN:HA	8:2:438:LEU:C	2.07	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:HZ3	1.46	0.80
13:7:61:PRO:HG2	13:7:64:MET:HG3	1.62	0.80
5:E:579:TYR:HB2	5:E:632:ILE:O	1.81	0.80
13:7:343:LEU:HD23	13:7:383:GLN:HE21	1.47	0.80
8:2:798:ILE:CD1	11:5:560:HIS:HB2	2.11	0.79
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
11:5:677:VAL:HG12	11:5:681:ILE:HD11	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
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
8:2:704:VAL:HG13	12:6:766:THR:HG23	1.64	0.79
11:5:320:GLY:HA2	11:5:323:ILE:H	1.45	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:7:ASN:HA	1:A:10:VAL:CG1	2.12	0.79
10:4:543:GLN:HG3	10:4:562:ILE:HG13	1.64	0.79
10:4:661:ILE:CG2	12:6:392:GLY:HA3	2.09	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
8:2:264:PRO:HG3	8:2:317:LEU:CB	2.12	0.79
8:2:309:LEU:O	8:2:310:ARG:NH1	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
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
8:2:501:MET:CE	8:2:516:ALA:HB2	2.12	0.79
8:2:541:LEU:HA	8:2:681:CYS:HB2	1.63	0.79
8:2:589:TRP:CG	8:2:590:THR:H	2.00	0.79
10:4:655:SER:HA	10:4:664:THR:HA	1.65	0.79
11:5:86:ILE:HA	11:5:89:LEU:HG	1.63	0.79
11:5:481:GLU:HB3	11:5:484:LYS:HB2	1.63	0.79
12:6:174:TYR:CE2	12:6:178:LEU:HD11	2.18	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
13:7:546:ILE:HD12	13:7:557:LEU:HD11	1.64	0.79
3:C:46:LEU:HB3	3:C:50:LEU:HD11	1.65	0.79
8:2:684:ARG:HB3	8:2:685:ASP:CA	2.12	0.79
4:D:266:GLU:HB3	4:D:268:GLU:HG3	1.64	0.79
5:E:75:ASP:HB3	5:E:118:ARG:HH12	1.45	0.79
5:E:348:LEU:HD21	5:E:401:LEU:HD21	1.65	0.79
8:2:638:THR:O	11:5:445:SER:N	2.15	0.79
8:2:778:LEU:HB2	8:2:783:MET:HE3	1.65	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
5:E:98:ILE:N	5:E:99:ASP:HB3	1.98	0.78
9:3:225:ILE:HD12	9:3:225:ILE:H	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
2:B:155:LYS:HA	2:B:158:LYS:HG2	1.64	0.78
5:E:266:ASN:HB2	5:E:269:ASN:CG	2.09	0.78
9:3:445:ALA:CB	9:3:499:LYS:HD2	2.13	0.78
9:3:486:ILE:HA	9:3:489:VAL:CB	2.13	0.78
10:4:623:LEU:HD22	12:6:370:THR:HB	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:150:GLU:HG3	2:B:154:ILE:HG23	1.64	0.78
11:5:393:MET:HE1	11:5:606:CYS:HB2	1.64	0.78
13:7:453:ASP:OD2	13:7:562:SER:HA	1.83	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
12:6:371:GLY:HA3	13:7:554:ASN:HD21	1.47	0.78
12:6:638:ILE:HG22	12:6:639:ASP:H	1.48	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
4:D:267:VAL:HB	4:D:268:GLU:HA	1.66	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
13:7:504:ASP:HB3	13:7:505:GLU:CB	2.11	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
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
11:5:50:LEU:HD22	11:5:101:ILE:HD12	1.66	0.78
11:5:294:ILE:CG2	11:5:330:ILE:HG23	2.13	0.78
11:5:420:THR:HG23	11:5:556:VAL:HG21	1.65	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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
8:2:325: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
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
5:E:310:VAL:HG13	5:E:311:LYS:HA	1.64	0.77
5:E:311:LYS:HB2	5:E:312:THR:C	2.10	0.77
8:2:705:ARG:HB2	12:6:559:THR:CB	2.14	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
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
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
12:6:528:LYS:HA	12:6:531:ARG:HG2	1.66	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
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
11:5:69:ILE:CD1	11:5:73:GLU:HA	2.15	0.77
11:5:348:MET:HA	11:5:348:MET:HE2	1.63	0.77
13:7:587:PRO:HG2	13:7:590:LEU:CB	2.15	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
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
10:4:245:ALA:HB3	10:4:306:TYR:O	1.85	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:248:LEU:HB2	10:4:258:TYR:CD1	2.19	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
5:E:626:GLU:HB3	5:E:629:ILE:HG22	1.66	0.77
8:2:604:CYS:N	8:2:645:SER:O	2.15	0.77
9:3:31:PHE:CD1	9:3:32:LEU:HA	2.20	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
12:6:572:CYS:H	12:6:712:PHE:HA	1.48	0.77
13:7:428:VAL:HG13	13:7:598:PHE:HD2	1.50	0.77
13:7:444:VAL:HG23	13:7:446:ASP:H	1.49	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
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
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
8:2:813: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
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
8:2:484:PHE:CZ	8:2:766:TYR:HA	2.20	0.76
8:2:518:SER:HA	8:2:537:ILE:HD13	1.66	0.76
9:3:678:VAL:HG23	9:3:723:LYS:HD2	1.66	0.76
14:3:1001:ATP:C8	11:5:650:ILE:HD11	2.20	0.76
10:4:419:VAL:HG12	10:4:463:VAL:HG11	1.66	0.76
4:D:212:THR:N	4:D:213:GLU:HA	2.00	0.76
9:3:30:GLU:O	9:3:34:THR:N	2.18	0.76
9:3:194:PRO:HA	9:3:252:ASP:HA	1.67	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
5:E:380:MET:HE2	5:E:384:ILE:HG22	1.68	0.76
5:E:493:ASN:HA	5:E:496:ILE:HD12	1.68	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
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
8:2:322: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
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
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
4:D:96:GLN:O	4:D:100:ASN:ND2	2.19	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
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
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
4:D:229:PHE:HA	4:D:276:VAL:HG22	1.68	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:244:ILE:O	11:5:248:SER:OG	2.03	0.76
5:E:579:TYR:CE2	5:E:634:ARG:HB3	2.21	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
4:D:154:PHE:HE1	4:D:221:GLU:HB2	1.51	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
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
8:2:843: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
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
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
4:D:78:PRO:HA	4:D:174:LEU:HD12	1.67	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:93:MET:HA	4:D:93:MET:HE2	1.68	0.75
4:D:227:PHE:HD1	4:D:277:MET:HA	1.50	0.75
8:2:299:ASP:HA	8:2:319:ARG:CZ	2.17	0.75
8:2:574:VAL:HG12	12:6:664:ALA:CB	2.15	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
8:2:429: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
12:6:554:GLY:HA3	12:6:808:GLU:OE1	1.87	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
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: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
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
12:6:655:ALA:HB2	12:6:661:ILE:HD11	1.69	0.75
1:A:51:THR:O	1:A:55:LYS:N	2.20	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
11:5:485:MET:HE3	11:5:490:ARG:CG	2.16	0.75
2:B:30:ARG:HH11	2:B:66:MET:HE1	1.51	0.75
5:E:536:LEU:HD12	5:E:571:SER:HB2	1.68	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:605:PHE:HA	5:E:608:ALA:HB3	1.67	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
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
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
9:3:172: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:706:MET:HE2	12:6:793:TYR:CE1	2.21	0.74
2:B:30:ARG:HD3	2:B:66:MET:HE1	1.68	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
9:3:564: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
5:E:29:ILE:HD11	5:E:58:ILE:HA	1.68	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
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
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
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
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
8:2:562:ARG:CG	8:2:599:ALA:HB1	2.18	0.74
10:4:712:VAL:HG22	13:7:672:LYS:NZ	2.03	0.74
11:5:279:ASP:H	11:5:282:LEU:HD12	1.50	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
8:2:319:ARG:HE	8:2:427:THR:HG22	1.53	0.74
8:2:404:ARG:CZ	12:6:299:GLU:HA	2.17	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
4:D:141:ARG:HA	4:D:144:ILE:HG12	1.70	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
8:2:659:SER:HA	10:4:928:ARG:NE	2.03	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
8:2:276:MET:HE2	8:2:291:SER:HA	1.68	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:30:PHE:CE2	5:E:81:LEU:HD11	2.22	0.73
5:E:559:SER:HB2	5:E:560:GLU:C	2.13	0.73
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: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
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
10:4:397: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: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
8:2:798:ILE:HG21	11:5:560:HIS:CD2	2.24	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
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
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
8:2:388:VAL:O	8:2:408:VAL:N	2.20	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:45:LEU:HD11	5:E:49:PHE:CZ	2.23	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:634:ARG:HA	5:E:637:LEU:HG	1.69	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: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
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
2:B:28:PHE:N	2:B:86:SER:O	2.20	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
4:D:137:LYS:HD3	4:D:141:ARG:HH22	1.52	0.73
8:2:388:VAL:HB	8:2:408:VAL:CB	2.17	0.73
10:4:509:ILE:HD11	10:4:749:MET:HE2	1.68	0.73
11:5:254:GLN:HB2	11:5:283:THR:HG22	1.70	0.73
4:D:233:ASN:H	4:D:291:VAL:HA	1.52	0.73
4:D:282:ILE:HD13	4:D:286:LEU:HD13	1.71	0.73
5:E:60:PRO:HD3	5:E:478:TRP:HZ2	1.54	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
13:7:251:VAL:HG23	13:7:310:PHE:C	2.14	0.73
13:7:470:LEU:HB3	13:7:522:CYS:HB3	1.71	0.73
3:C:101:ASN:HB2	3:C:102:SER:C	2.14	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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: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:43:LYS:HB2	5:E:484:LEU:HD21	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
11:5:49:GLN:HG2	11:5:53:ASN:HD21	1.54	0.72
11:5:426:LEU:HD23	11:5:429:VAL:HG21	1.70	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
8:2:335: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
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
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
13:7:128:PRO:HB2	13:7:129:THR:C	2.15	0.72
13:7:228:ARG:NH2	13:7:327:ILE:O	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:650:PRO:HA	13:7:706:ASP:HB3	1.69	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
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
1:A:87:LEU:HD13	3:C:4:TYR:HE1	1.55	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
9:3:314:LEU:CA	11:5:201:THR:HA	2.17	0.72
10:4:721:ALA:O	10:4:725:THR:N	2.22	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
1:A:41:LEU:HA	1:A:44:VAL:CG1	2.20	0.72
2:B:79:LEU:HD21	4:D:124:LEU:HD23	1.71	0.72
2:B:148:LEU:HA	2:B:151:ILE:HG12	1.72	0.72
5:E:539:TYR:HB3	5:E:545:LEU:HD11	1.69	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
3:C:82:THR:HA	3:C:85:MET:HG2	1.72	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
2:B:168:LEU:HB3	2:B:170:LEU:HD21	1.71	0.72
8:2:700:VAL:HG12	12:6:770:ARG:HH11	1.55	0.72
10:4:762:ILE:HA	10:4:817:VAL:HG12	1.70	0.72
12:6:563:ILE:H	12:6:563:ILE:HD12	1.55	0.72
1:A:186:ASP:O	5:E:478:TRP:NE1	2.23	0.71
3:C:53:ILE:HA	3:C:56:ILE:CG1	2.20	0.71
3:C:126:GLU:OE2	3:C:130:GLN:NE2	2.22	0.71
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:806:LEU:HB3	12:6:827:ALA:CB	2.18	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
8:2:226:VAL:O	8:2:230:ARG:N	2.23	0.71
4:D:64:MET:SD	4:D:139:VAL:HG11	2.30	0.71
8:2:676:ARG:HH12	11:5:418:PRO:HB2	1.54	0.71
9:3:38:TYR:CZ	9:3:98:ILE:HA	2.26	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
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
10:4:395: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: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
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
5:E:92:LEU:O	5:E:96:LEU:N	2.23	0.71
5:E:151:THR:HB	5:E:152:LEU:C	2.15	0.71
5:E:421:ALA:HA	5:E:424:PHE:HB3	1.71	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
11:5:182:MET:HE2	11:5:189:THR:HG22	1.72	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
1:A:149:ILE:HG12	4:D:141:ARG:NE	2.05	0.71
5:E:561:ASP:HB3	5:E:562:LYS:CG	2.21	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
10:4:342:MET:HE3	12:6:448:LEU:CD2	2.19	0.71
10:4:688:VAL:HG11	10:4:836:TYR:CD1	2.26	0.71
11:5:422:LYS:NZ	14:5:801:ATP:O3G	2.23	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: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
8:2:431:LYS:HB2	8:2:433:ASN:OD1	1.91	0.71
8:2:445:PRO:HG3	12:6:325:PHE:HA	1.72	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
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:H	5:E:61:ILE:HD12	1.56	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
2:B:94:THR:O	2:B:98:LEU:HG	1.91	0.70
2:B:175:LEU:HA	2:B:178:ILE:HD12	1.72	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
8:2:585:ILE:HD12	11:5:457:PRO:HA	1.72	0.70
9:3:417:GLN:HG3	11:5:404:MET:HE2	1.72	0.70
10:4:347:PHE:H	10:4:357:ALA:HB2	1.56	0.70
10:4:762:ILE:CD1	12:6:736:MET:HE1	2.17	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
3:C:77:PRO:HB3	3:C:79:MET:HE3	1.73	0.70
3:C:106:SER:O	3:C:110:LYS:NZ	2.24	0.70
4:D:268:GLU:O	4:D:269:LEU:HD22	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:392:PHE:CA	5:E:396:LEU:HD23	2.16	0.70
13:7:459:MET:HE1	13:7:584:ILE:HG23	1.72	0.70
13:7:460:GLY:HA3	13:7:600:MET:HB2	1.73	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
2:B:51:GLN:HB2	2:B:52:LEU:C	2.17	0.70
5:E:583:GLY:N	5:E:628:SER:O	2.25	0.70
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: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
8:2:426:VAL:HG12	8:2:456:ILE:HG13	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
12:6:371:GLY:HA3	13:7:554:ASN:ND2	2.06	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
2:B:121:VAL:HG13	3:C:190:TRP:HZ2	1.57	0.70
10:4:499:ARG:NH1	10:4:749:MET:HB3	2.05	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
4:D:216:VAL:HG22	4:D:219:ILE:HG13	1.71	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
8:2:338:LYS:HE2	8:2:379:LYS:CB	2.16	0.70
9:3:32:LEU:HD13	9:3:38:TYR:HB2	1.73	0.70
9:3:189:THR:HG23	9:3:256:ILE:CG2	2.21	0.70
10:4:547:GLY:HA3	10:4:560:GLY:CA	2.20	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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
8:2:383: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
11:5:63:VAL:HG11	11:5:68:LEU:HD11	1.74	0.70
11:5:435:ILE:CD1	11:5:475:GLY:HA3	2.22	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: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
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
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
9:3:183:GLU:OE1	9:3:183:GLU:N	2.24	0.70
11:5:49:GLN:HG2	11:5:53:ASN:ND2	2.06	0.70
11:5:414:LEU:HB2	11:5:522:ALA:HA	1.74	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
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
10:4:183: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
5:E:43:LYS:HG2	5:E:484:LEU:HD21	1.74	0.69
5:E:162:LEU:HD22	5:E:165:LEU:HD23	1.74	0.69
5:E:509:THR:HG1	5:E:539:TYR:HH	1.40	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:569:HIS:CE1	11:5:657:ILE:HG21	2.27	0.69
10:4:407:PRO:HG2	10:4:410:GLN:CB	2.23	0.69
11:5:498:GLU:OE1	11:5:498:GLU:N	2.25	0.69
13:7:68:GLN:O	13:7:72:ASN:N	2.25	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
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: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
8:2:567: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
12:6:780: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
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
9:3:21: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
12:6:551:MET:HE1	12:6:591:PHE:HE2	1.56	0.69
5:E:13:ASN:HA	5:E:16:LEU:HG	1.74	0.69
5:E:81:LEU:HD12	5:E:120:ILE:HG23	1.74	0.69
8:2:419:LYS:HG3	11:5:269:GLU:HG2	1.73	0.69
9:3:730:ALA:O	9:3:734:ARG:N	2.25	0.69
10:4:351:VAL:CG1	10:4:352:CYS:HA	2.22	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
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
8:2:386:GLN:HB2	8:2:415:VAL:HG13	1.73	0.69
8:2:630:SER:CB	11:5:445:SER:HA	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:354:SER:HB3	9:3:717:LEU:HD22	1.72	0.69
10:4:456:LEU:HG	13:7:253:PRO:O	1.93	0.69
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
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
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
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:271:TRP:O	5:E:275:LEU:N	2.26	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
8:2:253:LYS:HB3	8:2:255:ILE:HG13	1.73	0.69
8:2:388:VAL:CB	8:2:408:VAL:HB	2.19	0.69
9:3:201:HIS:CB	9:3:210:HIS:HB2	2.17	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
10:4:243: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
10:4:451:ARG:NE	12:6:445:VAL:HG21	2.08	0.69
10:4:719:GLU:HA	10:4:722:LYS:HB2	1.74	0.69
10:4:727:LEU:HA	10:4:728:TYR:C	2.17	0.69
10:4:795:THR:O	10:4:799:GLU:N	2.26	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
12:6:294:VAL:CG1	12:6:391:PRO:HA	2.22	0.69
12:6:522:ASP:HB2	12:6:525:ILE:CG2	2.23	0.69
12:6:720:ASN:O	12:6:724:ASP:N	2.23	0.69
12:6:736:MET:HE2	12:6:736:MET:HA	1.74	0.69
13:7:220:ILE:HA	13:7:223:LYS:HZ3	1.57	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
3:C:20:PHE:CE1	3:C:46:LEU:HD11	2.18	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:402:MET:HA	13:7:405:ILE:CB	2.21	0.69
1:A:182:ASN:CB	5:E:74:LEU:HD13	2.16	0.69
2:B:116:PRO:HB2	2:B:119:TRP:HB3	1.75	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
12:6:310:THR:C	12:6:345:THR:H	2.00	0.69
12:6:532:SER:HA	12:6:744:PRO:CB	2.22	0.69
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:44:MET:HE2	5:E:255:ILE:HG22	1.75	0.68
5:E:320:ILE:HG22	5:E:409:PHE:CD1	2.27	0.68
8:2:635:GLY:HA3	11:5:465:GLU:CG	2.23	0.68
8:2:803:PHE:N	8:2:804:PRO:HA	2.08	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:91:ARG:HA	4:D:190:TRP:HH2	1.57	0.68
2:B:187:GLU:HB2	3:C:179:LYS:NZ	2.08	0.68
6:F:9:DA:N6	7:G:10:DT:O4	2.17	0.68
6:F:23:DT:P	8:2:581:ARG:HE	2.15	0.68
8:2:394:PRO:HB2	12:6:672:LEU:CD2	2.24	0.68
10:4:517:ASP:O	10:4:521:LEU:N	2.25	0.68
11:5:77:LYS:HA	11:5:80:SER:HB2	1.75	0.68
11:5:540:ILE:HD12	11:5:547:LEU:CD2	2.22	0.68
12:6:820:THR:O	12:6:824:ILE:HG12	1.93	0.68
1:A:138:ILE:HA	1:A:141:LEU:HD23	1.75	0.68
4:D:200:LYS:H	4:D:201:TYR:C	2.01	0.68
5:E:91:ASP:OD2	5:E:93:GLU:HB3	1.93	0.68
5:E:289:ASN:HA	5:E:292:TYR:HE2	1.58	0.68
5:E:433:GLU:OE1	5:E:433:GLU:N	2.24	0.68
5:E:619:LYS:HB3	5:E:633:ARG:HG2	1.74	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:16:PHE:HE2	3:C:48:LEU:HB2	1.57	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
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
2:B:30:ARG:HD3	2:B:66:MET:CE	2.23	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
8:2:794: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
13:7:349: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
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
8:2:266: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
11:5:393:MET:HE1	11:5:606:CYS:CB	2.23	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: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:620:VAL:CG2	5:E:632:ILE:HD13	2.24	0.68
8:2:302:THR:HG21	8:2:319:ARG:N	2.07	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
2:B:30:ARG:NH1	2:B:66:MET:HE1	2.09	0.68
5:E:43:LYS:CG	5:E:484:LEU:HD21	2.23	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
1:A:32:TYR:HA	1:A:93:ARG:HH12	1.58	0.68
1:A:83:LYS:HE3	4:D:206:LEU:HB3	1.76	0.68
4:D:224:TRP:O	4:D:280:GLU:N	2.27	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
9:3:211:TYR:CD1	13:7:8:ILE:HD12	2.29	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
1:A:26:ASP:O	1:A:27:VAL:HG12	1.93	0.68
1:A:182:ASN:CG	5:E:74:LEU:HB3	2.19	0.68
1:A:184:ILE:HD11	5:E:73:GLN:HE22	1.59	0.68
3:C:12:ASP:HB3	3:C:49:TRP:H	1.59	0.68
3:C:82:THR:HA	3:C:85:MET:HE3	1.75	0.68
4:D:73:SER:OG	4:D:150:LYS:NZ	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
10:4:441:SER:C	10:4:442:ILE:HD12	2.19	0.68
10:4:559:ARG:CZ	10:4:668:ARG:HD3	2.23	0.68
11:5:65:MET:HE2	11:5:141:SER:HB2	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:62:MET:HE2	1:A:62:MET:HA	1.76	0.67
2:B:184:PHE:O	2:B:188:ILE:HG13	1.94	0.67
6:F:18:DT:H2"	6:F:19:DT:C5	2.29	0.67
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
1:A:5:LEU:HA	1:A:8:LYS:HG2	1.74	0.67
1:A:159:SER:O	1:A:163:ILE:HD11	1.93	0.67
8:2:212:LYS:CE	8:2:274:VAL:HB	2.15	0.67
8:2:554:LYS:HE2	12:6:658:GLN:NE2	2.10	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
10:4:693:ASP:CG	10:4:694:LEU:H	2.01	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
13:7:258:ILE:HD12	13:7:271:GLN:HE21	1.59	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
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
2:B:11:PHE:HA	4:D:71:ARG:NH1	2.07	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
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
8:2:229:ALA:HA	8:2:232:ARG:CG	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
10:4:718:ARG:HG3	13:7:661:VAL:HG11	1.75	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
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
8:2:574: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
5:E:268:SER:O	5:E:272:LEU:HG	1.94	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
11:5:50:LEU:HD11	11:5:98:ALA:HB2	1.77	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
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
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
11:5:61:LEU:O	11:5:138:ILE:N	2.23	0.67
11:5:170:SER:O	11:5:254:GLN:NE2	2.27	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
1:A:47:LEU:CD2	1:A:75:THR:HB	2.13	0.67
1:A:100:MET:CG	1:A:104:ASN:HD21	1.99	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
8:2:257: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
11:5:349:PHE:HB3	11:5:601:ARG:NH2	2.08	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
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
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
3:C:187:THR:HG22	3:C:191:MET:HE2	1.76	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
8:2:243: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
10:4:458:LYS:HA	13:7:252:LYS:NZ	2.10	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
13:7:357:PRO:HA	13:7:374:THR:CA	2.20	0.67
2:B:184:PHE:CZ	3:C:136:ASN:HB2	2.29	0.67
3:C:112:ILE:HD12	3:C:120:LEU:HD11	1.76	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
8:2:419: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
11:5:44:PHE:CE1	11:5:47:ARG:HB3	2.30	0.67
11:5:162:LEU:N	11:5:294:ILE:O	2.26	0.67
11:5:175:ARG:HB2	11:5:251:ILE:CG1	2.25	0.67
11:5:181:ILE:HD13	11:5:207:LEU:CD2	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
11:5:75:ILE:O	11:5:79:LEU:N	2.27	0.66
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
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
1:A:107:LEU:HD21	1:A:153:GLY:CA	2.25	0.66
1:A:148:ASP:O	4:D:141:ARG:NH2	2.28	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
8:2:246: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
8:2:540:LEU:O	8:2:681:CYS:N	2.28	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
9:3:386:MET:HB3	9:3:714:LYS:CD	2.15	0.66
10:4:229:GLN:HA	10:4:232:GLU:CD	2.20	0.66
10:4:625:ASP:CG	10:4:667:ALA:HA	2.20	0.66
10:4:798:LEU:HA	10:4:801:MET:CE	2.25	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: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
4:D:212:THR:HB	4:D:213:GLU:C	2.21	0.66
5:E:272:LEU:O	5:E:276:GLY:N	2.19	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
8:2:584:PRO:HB2	8:2:585:ILE:CG1	2.26	0.66
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
12:6:143:MET:HE2	12:6:150:THR:N	2.10	0.66
12:6:182:GLN:HA	12:6:185:LEU:HB3	1.78	0.66
12:6:611:ALA:HB3	12:6:612:VAL:C	2.19	0.66
13:7:78:VAL:O	13:7:203:TYR:N	2.23	0.66
13:7:240:THR:CG2	13:7:352:THR:HG22	2.25	0.66
1:A:161:VAL:HG21	4:D:127:LEU:HD21	1.76	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
5:E:92:LEU:HA	5:E:95:PHE:CB	2.16	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
13:7:529:MET:HE3	13:7:533:ASP:HB3	1.78	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
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
10:4:188:GLN:C	10:4:190:CYS:H	2.03	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:451:ARG:HE	12:6:445:VAL:HG21	1.60	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
13:7:335:VAL:CG1	13:7:340:VAL:HA	2.26	0.66
13:7:670:ASP:CA	13:7:673:ARG:HG2	2.22	0.66
1:A:16:THR:HA	1:A:19:LEU:CB	2.23	0.66
1:A:149:ILE:CA	1:A:150:ASP:HB2	2.24	0.66
2:B:148:LEU:HA	2:B:151:ILE:HD11	1.77	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
5:E:137:SER:HA	5:E:140:ILE:HD12	1.76	0.66
9:3:123:PRO:HA	9:3:126:GLU:CD	2.21	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
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: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
8:2:246: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:149:ILE:HD13	4:D:144:ILE:CD1	2.25	0.66
3:C:105:PHE:HB2	3:C:172:MET:SD	2.35	0.66
4:D:86:ARG:O	4:D:90:ARG:N	2.27	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)
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
8:2:777: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
11:5:421:ALA:N	14:5:801:ATP:O2B	2.29	0.66
11:5:685:GLN:O	11:5:689:MET:HG2	1.95	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:145:ASP:CA	1:A:146:LEU:HB3	2.25	0.66
2:B:5:ALA:O	2:B:8:GLN:HB3	1.95	0.66
2:B:122:LEU:C	2:B:126:LEU:HG	2.21	0.66
2:B:148:LEU:HA	2:B:151:ILE:CG1	2.25	0.66
5:E:120:ILE:HD13	5:E:139:ILE:CG2	2.26	0.66
8:2:330:VAL:HG21	8:2:416:ASP:HB2	1.78	0.66
8:2:574:VAL:HA	12:6:664:ALA:HB3	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
9:3:570:ARG:HA	11:5:613:ARG:NH2	2.11	0.66
10:4:308:VAL:HG21	10:4:325:LEU:CB	2.25	0.66
10:4:661:ILE:HG12	12:6:391:PRO:HB2	1.77	0.66
11:5:467:GLY:O	11:5:471:LEU:HG	1.96	0.66
12:6:659:GLN:HG3	12:6:674:ALA:O	1.96	0.66
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
8:2:274: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
9:3:680:VAL:HG12	13:7:610:GLU:OE1	1.96	0.65
12:6:802:SER:CA	12:6:805:ARG:HG2	2.23	0.65
13:7:689:LEU:HD12	13:7:692:ILE:CG2	2.25	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
8:2:562:ARG:HG2	8:2:599:ALA:HB1	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
10:4:563:ASN:OD1	10:4:671:ILE:N	2.29	0.65
2:B:95:THR:HB	2:B:141:LEU:HG	1.78	0.65
5:E:67:LEU:O	5:E:71:TYR:N	2.28	0.65
5:E:134:ILE:HD11	5:E:144:ASP:OD2	1.96	0.65
10:4:197:PHE:CZ	10:4:248:LEU:HD23	2.31	0.65
10:4:203:TYR:O	10:4:207:LYS:NZ	2.19	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
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
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
8:2:335:LYS:HB2	8:2:382:TYR:HA	1.78	0.65
8:2:394:PRO:HB2	12:6:672:LEU:HD21	1.78	0.65
8:2:632:SER:O	11:5:448:GLY:HA2	1.96	0.65
8:2:659:SER:HA	10:4:928:ARG:CZ	2.26	0.65
9:3:441:GLY:HA2	9:3:460:GLY:C	2.22	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
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
13:7:374:THR:OG1	13:7:375:TYR:N	2.24	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:16:THR:CA	1:A:19:LEU:HB2	2.26	0.65
3:C:86:ASN:HB2	9:3:104:ARG:NH2	2.12	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
8:2:562:ARG:NH1	8:2:599:ALA:HA	2.09	0.65
9:3:156:SER:CB	9:3:325:THR:HG22	2.19	0.65
9:3:231:TYR:HE2	9:3:243:THR:HG22	1.61	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:689:LEU:HA	13:7:692:ILE:CG2	2.27	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
8:2:548:ALA:HB2	14:2:901:ATP:C5	2.32	0.65
8:2:580:VAL:HG21	8:2:591:LEU:HG	1.77	0.65
8:2:621:HIS:CD2	8:2:673:ILE:HA	2.29	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
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
13:7:228:ARG:HH22	13:7:327:ILE:H	1.44	0.65
13:7:287:GLU:HA	13:7:290:SER:HB2	1.77	0.65
13:7:659:TYR:CD2	13:7:710:ILE:HD11	2.31	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:232:VAL:HA	4:D:291:VAL:HG23	1.79	0.65
4:D:278:ARG:HB2	4:D:281:VAL:HG12	1.78	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
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
1:A:9:LEU:O	1:A:13:ALA:N	2.27	0.65
4:D:204:GLU:HA	4:D:207:GLN:CD	2.22	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:798:LEU:HA	10:4:801:MET:HE2	1.78	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
12:6:120:GLU:O	12:6:134:LYS:NZ	2.29	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
13:7:429:LYS:HA	13:7:432:LEU:HD12	1.78	0.65
2:B:50:TRP:N	2:B:51:GLN:OE1	2.30	0.65
2:B:125:ILE:HA	2:B:128:ASN:OD1	1.97	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:75:ASP:CB	5:E:118:ARG:HH12	2.09	0.65
5:E:529:VAL:HG23	5:E:570:ALA:HB3	1.79	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
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
13:7:77:SER:HB3	13:7:338:THR:CB	2.26	0.65
13:7:138:VAL:HA	13:7:141:VAL:HG22	1.79	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
8:2:242: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
10:4:712:VAL:HG13	13:7:668:ARG:HG3	1.78	0.65
10:4:830:ARG:HD3	10:4:833:ILE:CD1	2.26	0.65
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
8:2:208: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:HD12	13:7:601:LEU:O	1.97	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:HI'	6:F:24:DT:N3	2.12	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
8:2:776:PRO:HA	8:2:827:GLU:C	2.22	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
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
3:C:7:ASP:HA	3:C:10:LEU:HB3	1.78	0.64
3:C:104:PHE:O	3:C:108:ALA:N	2.26	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
8:2:230: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
8:2:569:GLN:C	8:2:571:ALA:HA	2.23	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:OE1	10:4:401:GLU:N	2.23	0.64
10:4:420:TYR:C	10:4:424:VAL:HG23	2.22	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:195:ASN:CA	4:D:199:LEU:HD12	2.25	0.64
4:D:258:VAL:HG13	4:D:259:THR:C	2.23	0.64
4:D:267:VAL:HB	4:D:268:GLU:CA	2.27	0.64
4:D:267:VAL:CB	4:D:268:GLU:HA	2.26	0.64
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
5:E:149:ASP:H	5:E:150:ASP:HA	1.62	0.64
8:2:219:THR:HB	8:2:223:GLY:CA	2.27	0.64
8:2:520:PHE:CE2	8:2:822:LYS:HB2	2.24	0.64
8:2:581:ARG:HG2	8:2:634:ALA:N	2.12	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
1:A:9:LEU:HD21	1:A:89:TYR:CD1	2.32	0.64
1:A:22:ARG:CB	1:A:23:SER:HA	2.18	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
8:2:488: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
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
8:2:271: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:601:LEU:HA	10:4:620:ALA:HB3	1.80	0.64
10:4:767:LYS:HD3	12:6:736:MET:SD	2.36	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
12:6:796:THR:HG22	12:6:798:ARG:N	2.13	0.64
5:E:41:ALA:HB1	5:E:255:ILE:HD13	1.80	0.64
5:E:298:GLU:OE1	5:E:301:ARG:NH1	2.30	0.64
8:2:242:LEU:HD22	8:2:295:VAL:HG12	1.80	0.64
8:2:546:GLY:HA2	12:6:798:ARG:HH12	1.61	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
10:4:184:ASN:HB3	13:7:145:GLN:HE22	1.61	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
11:5:90:PHE:C	11:5:94:ILE:HD12	2.23	0.64
11:5:411:ASN:CB	11:5:550:PHE:HA	2.27	0.64
12:6:164:GLY:O	12:6:168:MET:N	2.29	0.64
12:6:292:GLY:HA3	12:6:361:ILE:HD11	1.80	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
13:7:518:ASN:HB2	13:7:560:ARG:NE	2.11	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
10:4:601:LEU:HD23	10:4:621:LEU:HD11	1.79	0.64
10:4:608:ASP:HB2	10:4:615:VAL:CG2	2.28	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
12:6:696:ARG:HA	12:6:706:MET:HE1	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
1:A:22:ARG:HB3	1:A:23:SER:CA	2.26	0.64
2:B:91:GLN:OE1	2:B:91:GLN:N	2.31	0.64
4:D:76:LEU:HD11	4:D:147:ARG:HE	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:60:PRO:HG3	5:E:478:TRP:NE1	2.13	0.64
5:E:83:LEU:HD21	5:E:86:PHE:HB2	1.80	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:626:GLU:HB3	5:E:629:ILE:CG2	2.28	0.64
8:2:212:LYS:NZ	8:2:271:PHE:O	2.31	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
9:3:562:SER:C	9:3:566:LEU:HG	2.23	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
11:5:303:SER:C	11:5:304:LYS:HG3	2.21	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
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
8:2:496:LYS:HA	8:2:499:SER:CB	2.27	0.64
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
1:A:67:VAL:HG11	3:C:25:PRO:CD	2.22	0.63
5:E:44:MET:HE3	5:E:259:LEU:HD13	1.80	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
8:2:335: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
8:2:759: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:102:TRP:HH2	4:D:148:LEU:HD13	1.63	0.63
2:B:163:LEU:HB3	2:B:189:MET:CE	2.28	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
5:E:287:VAL:O	5:E:291:LEU:HG	1.99	0.63
5:E:431:LEU:O	5:E:476:ASN:ND2	2.30	0.63
8:2:230:ARG:NH1	8:2:243:GLU:HB3	2.13	0.63
8:2:399:PRO:HB3	12:6:630:LEU:HA	1.80	0.63
8:2:705:ARG:HB2	12:6:559:THR:CG2	2.27	0.63
9:3:196:LEU:H	13:7:372:THR:HG23	1.63	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
13:7:348:ILE:HG22	13:7:384:HIS:CD2	2.33	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
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:41:ALA:HB1	5:E:255:ILE:CD1	2.29	0.63
5:E:78:ILE:HB	5:E:118:ARG:CZ	2.27	0.63
5:E:380:MET:HB2	5:E:385:LYS:CE	2.25	0.63
5:E:571:SER:O	5:E:579:TYR:HA	1.98	0.63
9:3:95:ARG:NH1	9:3:282:LEU:HD21	2.13	0.63
9:3:130:THR:HG22	9:3:153:TRP:CD1	2.33	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
10:4:802: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
1:A:130:TYR:CD1	4:D:189:ILE:HG13	2.34	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:139:ALA:HB1	3:C:184:TYR:CE2	2.33	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
8:2:572:SER:HA	12:6:663:ILE:HA	1.81	0.63
9:3:96:ILE:O	9:3:155:LEU:HA	1.98	0.63
9:3:377:ILE:HG12	9:3:547:PHE:CD2	2.33	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
12:6:143:MET:CE	12:6:148:LEU:HB2	2.21	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
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
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
8:2:323:VAL:HG23	8:2:393:ALA:CA	2.29	0.63
9:3:191:LEU:HD21	13:7:329:ARG:NH1	2.13	0.63
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
11:5:357:PHE:HE1	11:5:598:LYS:HE2	1.62	0.63
11:5:526:ILE:HB	11:5:527:TYR:CD2	2.33	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:107:LEU:HD21	1:A:153:GLY:N	2.14	0.63
1:A:110:MET:HE3	1:A:112:SER:HA	1.80	0.63
1:A:173:GLU:CA	1:A:183:LEU:HD23	2.29	0.63
2:B:25:ILE:HD12	2:B:87:ILE:CD1	2.29	0.63
2:B:119:TRP:HA	2:B:122:LEU:HG	1.78	0.63
3:C:51:ALA:HA	3:C:54:LEU:CG	2.29	0.63
5:E:33:CYS:SG	5:E:34:LEU:N	2.72	0.63
5:E:131:LEU:HD21	5:E:240:TYR:HD2	1.64	0.63
5:E:346:ALA:CB	5:E:555:CYS:HA	2.21	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
1:A:105:ASN:HB3	1:A:110:MET:SD	2.39	0.63
1:A:166:ARG:HG3	1:A:187:SER:C	2.24	0.63
1:A:184:ILE:HD11	5:E:73:GLN:NE2	2.12	0.63
2:B:99:ASP:O	2:B:102:ILE:HG12	1.98	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
3:C:50:LEU:C	3:C:54:LEU:HG	2.24	0.63
4:D:170:SER:HB3	4:D:175:LEU:HD22	1.80	0.63
5:E:78:ILE:HB	5:E:118:ARG:NH2	2.14	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
8:2:331:PHE:O	8:2:385:TYR:N	2.31	0.63
8:2:543:GLY:HA3	8:2:549:LYS:NZ	2.13	0.63
8:2:622:GLU:OE2	8:2:626:GLN:NE2	2.31	0.63
8:2:637:VAL:HG11	11:5:471:LEU:HD11	1.81	0.63
10:4:594:LYS:CG	10:4:636:LYS:HG2	2.29	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
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
8:2:790: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
10:4:233:MET:CE	10:4:239:SER:HA	2.18	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
10:4:505: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
13:7:234:PHE:HA	13:7:237:GLN:CD	2.24	0.63
2:B:122:LEU:O	2:B:126:LEU:HG	1.99	0.63
4:D:172:THR:HG21	4:D:177:LYS:HZ3	1.64	0.63
8:2:328:THR:O	8:2:386:GLN:NE2	2.25	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
11:5:379:PHE:HB2	11:5:568:ILE:HD13	1.81	0.63
11:5:441:GLY:HA3	11:5:442:LYS:C	2.23	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
1:A:84:ARG:HA	1:A:87:LEU:HD12	1.81	0.62
8:2:431:LYS:HB2	8:2:433:ASN:CG	2.24	0.62
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
9:3:194:PRO:CG	13:7:374:THR:HG22	2.28	0.62
9:3:480:ASP:HA	9:3:483:ARG:CD	2.28	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:9:SER:O	5:E:13:ASN:N	2.29	0.62
5:E:96:LEU:CB	5:E:98:ILE:HD13	2.29	0.62
5:E:271:TRP:CE2	5:E:275:LEU:HD21	2.33	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
11:5:86:ILE:CG2	11:5:89:LEU:HD12	2.25	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
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:93:ARG:O	1:A:97:LEU:HG	1.99	0.62
1:A:165:VAL:HG13	1:A:206:GLN:H	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:83:LYS:HA	3:C:86:ASN:HD21	1.64	0.62
3:C:170:GLU:HB3	3:C:173:GLU:HB3	1.81	0.62
4:D:87:LEU:HA	4:D:90:ARG:HB3	1.81	0.62
4:D:188:LEU:O	4:D:192:LYS:HG2	1.99	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
8:2:806: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: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
8:2:554: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
11:5:438: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
12:6:570:ASN:ND2	12:6:678:ILE:HB	2.14	0.62
12:6:656:MET:HA	12:6:656:MET:HE3	1.81	0.62
13:7:94:LEU:CA	13:7:95:GLN:HB2	2.30	0.62
13:7:154:LEU:CD1	13:7:189:THR:HG23	2.28	0.62
13:7:397:VAL:CG1	13:7:640:GLU:HG2	2.28	0.62
13:7:458:LEU:HD22	13:7:600:MET:HE3	1.81	0.62
13:7:485:GLY:H	13:7:525:GLU:HB2	1.64	0.62
1:A:158:PRO:HG3	4:D:135:ARG:HA	1.82	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
5:E:31:VAL:HG11	5:E:477:PHE:CZ	2.34	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: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
8:2:617:ARG:HA	8:2:620:ILE:HG13	1.80	0.62
9:3:164:HIS:C	9:3:180:VAL:HG13	2.25	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:182:VAL:N	9:3:294:VAL:O	2.22	0.62
9:3:737:LEU:C	9:3:738:LEU:HD12	2.24	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
12:6:598:THR:CG2	12:6:638:ILE:HG23	2.30	0.62
12:6:616:GLU:H	12:6:617:GLU:HA	1.64	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
13:7:529:MET:CE	13:7:537:ILE:HD12	2.25	0.62
13:7:650:PRO:HA	13:7:706:ASP:CB	2.29	0.62
1:A:115:PHE:O	1:A:118:GLN:NE2	2.33	0.62
2:B:26:LYS:HA	2:B:69:THR:O	2.00	0.62
2:B:115:LEU:HD22	2:B:119:TRP:CE2	2.34	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
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
12:6:112:ARG:NH2	12:6:183:LYS:HB2	2.05	0.62
12:6:167:ALA:HA	12:6:170:ILE:HD12	1.82	0.62
12:6:185:LEU:O	12:6:189:VAL:N	2.29	0.62
12:6:695:LEU:CD2	12:6:706:MET:HE3	2.30	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: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
8:2:339: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:621:HIS:HA	8:2:624:MET:CE	2.30	0.62
8:2:626:GLN:HA	11:5:427:LYS:HZ3	1.64	0.62
9:3:171:LEU:CD2	9:3:172:THR:HG23	2.30	0.62
10:4:234:ARG:HB2	10:4:291:TYR:HE2	1.63	0.62
10:4:243:LEU:HG	10:4:244:ASP:H	1.64	0.62
10:4:618:SER:HB3	10:4:622:VAL:CG1	2.29	0.62
11:5:87:ILE:HB	11:5:196:ASN:ND2	2.14	0.62
11:5:97:VAL:HA	11:5:100:ARG:HG3	1.80	0.62
11:5:176:ALA:HB2	11:5:250:PHE:CE1	2.35	0.62
11:5:181:ILE:HG23	11:5:242:ILE:N	2.14	0.62
11:5:338:GLU:HB3	11:5:346:VAL:HB	1.82	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
12:6:732:VAL:HG12	12:6:736:MET:HE3	1.82	0.62
1:A:7:ASN:CA	1:A:10:VAL:HG12	2.21	0.62
3:C:105:PHE:HZ	3:C:127:LEU:HD22	1.64	0.62
4:D:58:GLN:HA	4:D:61:SER:HB2	1.82	0.62
4:D:126:LEU:HD23	4:D:127:LEU:N	2.14	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
8:2:330:VAL:CG2	8:2:416:ASP:HB2	2.29	0.62
8:2:340:ASN:HB3	8:2:376:ASN:HB3	1.82	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:HD12	11:5:546:ILE:H	1.65	0.62
11:5:594:ILE:HD12	11:5:594:ILE:H	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
5:E:32:SER:HB2	5:E:86:PHE:CE2	2.35	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
6:F:21:DT:OP2	9:3:438:SER:OG	2.14	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:207:LEU:HD12	13:7:207:LEU:O	2.00	0.62
13:7:248:VAL:O	13:7:248:VAL:HG13	2.00	0.62
1:A:78:CYS:O	1:A:82:ASN:N	2.24	0.62
1:A:107:LEU:HD21	1:A:153:GLY:HA3	1.81	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
8:2:701: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
9:3:314:LEU:HD11	11:5:303:SER:HB3	1.81	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
10:4:696: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
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
5:E:577:ASP:HB2	5:E:633:ARG:NE	2.09	0.61
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
9:3:394:GLU:C	9:3:395:ASN:HD22	2.04	0.61
9:3:400:ARG:O	9:3:707:ARG:NH2	2.33	0.61
10:4:456:LEU:HB2	13:7:254:ALA:HB2	1.80	0.61
11:5:75:ILE:CA	11:5:78:LYS:HB3	2.22	0.61
11:5:302:ASN:HB2	11:5:324:ARG:NH1	2.15	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
13:7:466:LYS:HD3	13:7:566:ALA:HB1	1.82	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:5:ILE:HD13	5:E:134:ILE:HG23	1.81	0.61
5:E:134:ILE:HA	5:E:142:CYS:SG	2.40	0.61
8:2:219:THR:HB	8:2:223:GLY:C	2.25	0.61
9:3:260:GLU:OE1	9:3:260:GLU:N	2.23	0.61
9:3:389:VAL:O	9:3:389:VAL:HG12	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:HD23	11:5:663:LEU:O	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
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
8:2:458: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
11:5:83:PRO:O	11:5:87:ILE:HG13	1.99	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
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:71:GLN:O	1:A:75:THR:N	2.27	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
3:C:188:LYS:HA	3:C:191:MET:CG	2.30	0.61
5:E:8:PHE:HE2	5:E:254:GLN:HB3	1.65	0.61
5:E:131:LEU:O	5:E:155:GLN:NE2	2.33	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
8:2:506:TYR:HB2	8:2:698:PHE:CZ	2.35	0.61
8:2:849:GLN:HB2	8:2:853:VAL:HB	1.83	0.61
9:3:553:ILE:CB	11:5:630:ARG:HD2	2.30	0.61
9:3:566:LEU:HD11	11:5:623:SER:HB3	1.81	0.61
10:4:178:ARG:NH1	10:4:187:ILE:HD12	2.15	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
13:7:409:ASP:CG	13:7:412:ASN:HB3	2.25	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
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
10:4:340:PRO:HD3	12:6:452:ILE:CD1	2.31	0.61
10:4:710:ASP:OD2	13:7:672:LYS:NZ	2.31	0.61
11:5:382:GLU:OE1	11:5:382:GLU:N	2.30	0.61
11:5:384:ILE:HG23	11:5:554:PHE:HD2	1.65	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
13:7:421:GLU:HA	13:7:625:GLN:OE1	2.00	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
8:2:319: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
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
1:A:79:MET:CB	4:D:206:LEU:HD11	2.31	0.61
4:D:84:MET:HE1	4:D:143:TYR:CE2	2.36	0.61
4:D:199:LEU:HB3	4:D:202:MET:HE3	1.81	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
8:2:266: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:347:ILE:HD13	8:2:379:LYS:HG3	1.82	0.61
8:2:445:PRO:HD3	12:6:325:PHE:CB	2.31	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
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:165:GLU:OE1	2:B:165:GLU:N	2.27	0.61
3:C:165:PHE:O	3:C:168:LYS:HG2	2.00	0.61
4:D:83:LEU:O	4:D:86:ARG:HG2	2.01	0.61
4:D:224:TRP:HB3	4:D:280:GLU:HB2	1.81	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
9:3:459:ALA:H	13:7:327:ILE:HD11	1.65	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
10:4:234:ARG:HG3	10:4:291:TYR:OH	2.01	0.61
10:4:245:ALA:O	10:4:307:ASN:HB3	2.00	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
13:7:671:SER:OG	13:7:682:GLY:HA2	2.00	0.61
3:C:137:HIS:CB	11:5:55:LEU:HB3	2.27	0.61
3:C:138:HIS:HB3	3:C:177:TYR:CE1	2.35	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
8:2:459:ARG:HG3	8:2:460:GLU:C	2.26	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
8:2:793:LEU:HD11	8:2:863:ILE:HG13	1.83	0.61
8:2:815:ARG:HG3	8:2:818:GLU:OE2	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:356:LYS:HB2	9:3:359:ILE:CG2	2.26	0.61
9:3:706:ILE:HD13	13:7:620:HIS:CD2	2.36	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
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
1:A:20:TYR:C	1:A:23:SER:HB3	2.26	0.61
5:E:78:ILE:H	5:E:78:ILE:HD12	1.65	0.61
5:E:151:THR:HA	5:E:152:LEU:CB	2.28	0.61
8:2:305:SER:HA	8:2:321:THR:HG22	1.83	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
1:A:139:THR:HG22	1:A:142:LYS:HZ3	1.66	0.60
2:B:27:ILE:HG22	2:B:87:ILE:HA	1.83	0.60
2:B:157:LEU:HA	2:B:160:LEU:CB	2.31	0.60
5:E:119:ASP:C	5:E:120:ILE:HD12	2.26	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
8:2:481: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
9:3:221:LEU:O	9:3:299:LYS:NZ	2.24	0.60
10:4:559:ARG:NE	10:4:668:ARG:HB2	2.16	0.60
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
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
12:6:109:GLU:CD	12:6:112:ARG:HD3	2.25	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
13:7:635:PRO:HA	13:7:638:MET:HE2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:14:LYS:HB2	3:C:6:ILE:HD12	1.83	0.60
1:A:145:ASP:CB	1:A:147:VAL:HG23	2.30	0.60
1:A:192:ARG:NH1	4:D:130:GLU:HG3	2.16	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
3:C:111:TRP:HA	3:C:114:LEU:HB3	1.83	0.60
5:E:556:CYS:O	5:E:560:GLU:HG2	2.01	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
9:3:240:LYS:C	9:3:241:LEU:HD23	2.25	0.60
9:3:372:TYR:CZ	9:3:564:HIS:HB3	2.36	0.60
9:3:519:VAL:HG22	9:3:534:ALA:CB	2.27	0.60
10:4:334:ARG:NH1	10:4:398:LYS:HD3	2.15	0.60
11:5:136:GLN:NE2	11:5:282:LEU:HG	2.16	0.60
11:5:432:VAL:O	11:5:600:LYS:HE2	2.00	0.60
11:5:502:ILE:HB	11:5:513:LEU:CD1	2.31	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
13:7:238:LEU:CB	13:7:354:ILE:HG22	2.31	0.60
13:7:283:GLU:O	13:7:298:LEU:HG	2.01	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:90:GLN:HA	1:A:93:ARG:HB3	1.82	0.60
1:A:100:MET:HE2	1:A:117:GLN:CG	2.31	0.60
1:A:169:LYS:H	1:A:185:LYS:CD	2.08	0.60
2:B:8:GLN:O	4:D:71:ARG:NH2	2.34	0.60
3:C:50:LEU:HD12	3:C:51:ALA:N	2.15	0.60
8:2:458:ARG:NH2	8:2:562:ARG:HA	2.15	0.60
9:3:658:LYS:HA	9:3:661:GLN:CD	2.26	0.60
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
11:5:260:GLU:CD	11:5:272:ARG:HG2	2.26	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
12:6:293:THR:HG23	12:6:392:GLY:C	2.26	0.60
12:6:632:ASP:HA	12:6:676:THR:CG2	2.26	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:461:ASP:HB3	13:7:569:PRO:HD2	1.82	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
8:2:585: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
12:6:818:GLU:C	12:6:819:ILE:HD12	2.26	0.60
13:7:353:GLY:HA2	13:7:379:GLN:HG2	1.83	0.60
1:A:130:TYR:HB2	4:D:193:LEU:HD13	1.84	0.60
2:B:146:GLN:HG2	11:5:44:PHE:HZ	1.66	0.60
4:D:76:LEU:HD22	4:D:151:ILE:CD1	2.18	0.60
4:D:216:VAL:HG21	4:D:219:ILE:HG13	1.83	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
9:3:179:LEU:HA	9:3:296:GLY:C	2.26	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
11:5:50:LEU:O	11:5:54:ILE:HG13	2.00	0.60
11:5:384:ILE:HG23	11:5:554:PHE:CD2	2.36	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
13:7:461:ASP:OD2	13:7:573:ARG:HA	2.01	0.60
13:7:493:LEU:CB	13:7:513:LEU:HG	2.31	0.60
13:7:516:ALA:C	13:7:561:THR:HG22	2.26	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
5:E:545:LEU:CA	5:E:548:LEU:HB3	2.30	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:372:TYR:CE2	9:3:561:ILE:HA	2.36	0.60
9:3:500:ALA:HB3	9:3:501:GLY:HA2	1.82	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
11:5:349:PHE:CB	11:5:601:ARG:HH21	2.12	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
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
13:7:461:ASP:CG	13:7:569:PRO:HD2	2.27	0.60
1:A:23:SER:N	1:A:24:ASN:CA	2.65	0.60
2:B:55:THR:HG22	4:D:94:GLN:HE22	1.65	0.60
4:D:151:ILE:HG23	4:D:158:LEU:CD1	2.32	0.60
5:E:582:ALA:HA	5:E:629:ILE:HA	1.82	0.60
5:E:603:ASN:OD1	5:E:604:ASN:N	2.35	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
10:4:344:VAL:C	10:4:360:ILE:HD12	2.27	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
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
8:2:259: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
10:4:233:MET:HE3	10:4:239:SER:CA	2.20	0.60
10:4:235:GLU:HG3	10:4:291:TYR:OH	2.02	0.60
10:4:458:LYS:CE	12:6:413:PRO:HD3	2.30	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)
12:6:292:GLY:O	12:6:394:ARG:HA	2.00	0.60
12:6:344:TRP:CB	12:6:345:THR:CA	2.80	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
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
8:2:338: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
10:4:762:ILE:HD11	12:6:736:MET:CE	2.24	0.60
11:5:165:ILE:HD11	11:5:291:ARG:NH1	2.17	0.60
11:5:393:MET:SD	11:5:603:ILE:HG23	2.41	0.60
11:5:588:GLU:HB3	11:5:593:GLU:CB	2.31	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: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
8:2:219: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
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
10:4:517:ASP:CG	10:4:521:LEU:HB2	2.27	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: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
5:E:15:ILE:O	5:E:19:SER:OG	2.20	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:315:THR:HA	5:E:316:LEU:C	2.27	0.59
7:G:8:DG:H2'	7:G:9:DA:C8	2.37	0.59
8:2:548:ALA:O	8:2:552:ILE:HD12	2.01	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
11:5:631:LYS:O	11:5:635:ILE:HG13	2.02	0.59
11:5:633:LEU:HB2	11:5:648:ILE:CD1	2.29	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: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
8:2:301:PRO:HA	8:2:302:THR:C	2.27	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
9:3:48:TYR:CD2	9:3:92:LEU:HG	2.37	0.59
9:3:446:VAL:HB	9:3:456:ARG:O	2.02	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
10:4:458:LYS:HA	13:7:252:LYS:HZ3	1.67	0.59
10:4:602:THR:CA	10:4:619:GLY:HA3	2.31	0.59
10:4:912:GLN:NE2	12:6:700:ASN:OD1	2.34	0.59
11:5:172:LEU:HD21	11:5:283:THR:HB	1.83	0.59
11:5:378:ILE:HA	14:5:801:ATP:N1	2.17	0.59
11:5:667:GLU:OE2	11:5:673:GLN:NE2	2.35	0.59
12:6:185:LEU:O	12:6:189:VAL:HG23	2.02	0.59
12:6:292:GLY:C	12:6:394:ARG:HG2	2.26	0.59
12:6:355:ASP:CB	12:6:356:TRP:HB3	2.32	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:168:LEU:HD22	1:A:168:LEU:N	2.17	0.59
1:A:192:ARG:HH12	4:D:130:GLU:HG3	1.64	0.59
5:E:46:SER:O	5:E:50:LYS:HG3	2.02	0.59
5:E:150:ASP:N	5:E:152:LEU:HB3	2.15	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
8:2:341:CYS:SG	8:2:348:LEU:HD22	2.42	0.59
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
12:6:695:LEU:CB	12:6:838:VAL:HG13	2.23	0.59
12:6:776:LYS:CA	12:6:779:GLU:HG2	2.32	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
2:B:17:GLN:CB	2:B:121:VAL:HG11	2.32	0.59
3:C:127:LEU:HD23	3:C:127:LEU:C	2.28	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
5:E:558:GLU:HB2	5:E:559:SER:C	2.27	0.59
6:F:10:DT:H2'	6:F:11:DC:H6	1.66	0.59
6:F:23:DT:H1'	6:F:24:DT:C4	2.37	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
9:3:475:PHE:O	9:3:483:ARG:NH1	2.35	0.59
9:3:500:ALA:HB3	9:3:501:GLY:CA	2.32	0.59
9:3:500:ALA:H	9:3:501:GLY:HA3	1.67	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
12:6:805:ARG:HA	12:6:808:GLU:CD	2.28	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:163:LEU:HB3	2:B:189:MET:HE1	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:144:ILE:HG13	4:D:145:ARG:N	2.17	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
8:2:337: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
9:3:315:ILE:HG22	11:5:255:PHE:CZ	2.36	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
11:5:97:VAL:HA	11:5:100:ARG:CG	2.32	0.59
11:5:151:LEU:HD11	11:5:274:LEU:HD11	1.84	0.59
11:5:673:GLN:O	11:5:677:VAL:HG23	2.02	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
1:A:27:VAL:HG11	1:A:100:MET:SD	2.43	0.59
1:A:106:GLY:H	1:A:107:LEU:HD13	1.67	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
5:E:349:SER:HA	5:E:351:TRP:CZ3	2.38	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
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
11:5:50:LEU:HD22	11:5:101:ILE:CD1	2.32	0.59
11:5:156:VAL:HA	11:5:298:TYR:O	2.02	0.59
11:5:182:MET:SD	11:5:187:ARG:HD3	2.43	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
12:6:606:ALA:HA	12:6:607:GLY:C	2.27	0.59
13:7:88:TYR:HA	13:7:91:GLU:CB	2.32	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
10:4:613:GLN:HB2	12:6:360:ARG:HH12	1.68	0.59
10:4:818:GLU:HG3	10:4:820:GLU:H	1.66	0.59
11:5:31:PHE:O	11:5:35:ILE:N	2.35	0.59
11:5:65:MET:HE2	11:5:141:SER:CB	2.32	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
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:67:VAL:CG1	3:C:25:PRO:HD2	2.21	0.59
1:A:159:SER:CB	1:A:160:ASP:HB2	2.32	0.59
4:D:199:LEU:CB	4:D:202:MET:HE3	2.32	0.59
5:E:324:TYR:CE1	5:E:405:ILE:HG13	2.38	0.59
5:E:357:LYS:O	8:2:236:GLU:HG2	2.02	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
9:3:47:VAL:O	9:3:51:ASN:N	2.34	0.59
9:3:214:TYR:OH	9:3:231:TYR:HA	2.02	0.59
9:3:675:ALA:HA	9:3:723:LYS:HA	1.85	0.59
10:4:342:MET:HG3	12:6:417:PRO:CG	2.32	0.59
10:4:601:LEU:C	10:4:619:GLY:HA3	2.27	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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
12:6:713:PHE:C	12:6:837:ARG:HH11	2.09	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
2:B:52:LEU:HB2	4:D:125:PRO:HB2	1.84	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
5:E:425:VAL:HA	5:E:428:LEU:HD12	1.83	0.59
9:3:18:ASP:OD2	9:3:20:VAL:HB	2.03	0.59
9:3:48:TYR:HA	9:3:51:ASN:ND2	2.18	0.59
9:3:212:ARG:CZ	9:3:232:PRO:HB3	2.33	0.59
9:3:275:ASP:CG	9:3:320:LEU:HB3	2.27	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
10:4:557:ARG:NH1	10:4:668:ARG:HB3	2.18	0.59
10:4:656:ILE:O	10:4:663:THR:N	2.20	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:157:LEU:HD11	3:C:137:HIS:CD2	2.38	0.58
3:C:5:ASP:HB3	3:C:8:ASP:CG	2.28	0.58
3:C:79:MET:O	3:C:84:VAL:HG11	2.03	0.58
3:C:101:ASN:HD21	3:C:104:PHE:HD1	1.51	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
8:2:660:THR:C	8:2:850:LYS:HG3	2.28	0.58
9:3:519:VAL:HG21	9:3:531:GLN:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:545:PHE:HB3	10:4:810:LYS:HD2	1.85	0.58
10:4:564:ILE:HD11	10:4:703:ASP:OD2	2.03	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
12:6:823:PHE:HA	12:6:826:GLU:CD	2.27	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
13:7:583:ASN:OD1	13:7:584:ILE:HG13	2.03	0.58
2:B:80:LYS:HE3	2:B:130:ALA:HA	1.85	0.58
2:B:167:HIS:C	2:B:168:LEU:HD12	2.27	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
8:2:609:PHE:HE2	8:2:677:PHE:HZ	1.51	0.58
8:2:663:LEU:HA	8:2:666:ASN:HB2	1.85	0.58
9:3:254:GLN:CD	9:3:278:LEU:HD12	2.28	0.58
9:3:702:LEU:HD23	9:3:702:LEU:C	2.28	0.58
10:4:568:GLY:HA3	10:4:708:VAL:CB	2.19	0.58
10:4:632:ASP:O	10:4:637:MET:HE2	2.03	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
13:7:262:CYS:SG	13:7:296:GLY:HA3	2.44	0.58
13:7:395:SER:C	13:7:397:VAL:H	2.11	0.58
1:A:144:GLY:O	1:A:146:LEU:HB3	2.04	0.58
4:D:69:ASN:O	4:D:73:SER:N	2.36	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
5:E:164:GLU:N	5:E:164:GLU:OE1	2.36	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
13:7:453:ASP:O	13:7:694:ARG:NH2	2.35	0.58
1:A:84:ARG:HD2	3:C:3:TYR:C	2.28	0.58
3:C:23:ASP:OD1	3:C:37:PRO:HB2	2.03	0.58
5:E:60:PRO:HB3	5:E:477:PHE:CE2	2.38	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
8:2:582:LYS:CA	8:2:583:ASP:HB2	2.13	0.58
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
12:6:611:ALA:HB3	12:6:613:VAL:N	2.17	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: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
5:E:418:SER:C	5:E:419:ILE:HD12	2.28	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
9:3:553:ILE:HD13	11:5:630:ARG:HD2	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
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
2:B:164:ASN:N	2:B:189:MET:HE1	2.18	0.58
5:E:29:ILE:CD1	5:E:58:ILE:HG23	2.27	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:362:MET:HE2	5:E:366:MET:HE3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:19:DT:H5'	9:3:448:THR:HG22	1.86	0.58
8:2:501:MET:HG2	8:2:512:LYS:CB	2.26	0.58
8:2:808:ARG:HG2	14:5:801:ATP:H4'	1.86	0.58
9:3:103:LEU:CD1	9:3:114:ILE:HD12	2.34	0.58
10:4:376:CYS:CB	10:4:377:ASN:C	2.76	0.58
10:4:524:ARG:HG3	10:4:742:LEU:HD23	1.85	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
13:7:78:VAL:N	13:7:201:PHE:O	2.37	0.58
13:7:135:LYS:HA	13:7:136:ASP:CB	2.30	0.58
13:7:361:THR:O	13:7:364:LYS:HG3	2.04	0.58
13:7:526:PHE:HB3	13:7:567:ALA:HB2	1.83	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
8:2:514:ALA:HB1	8:2:679:ILE:HG21	1.84	0.58
8:2:670:THR:OG1	8:2:672:PRO:HD2	2.03	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
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:89:VAL:HG12	5:E:90:ILE:HD12	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
8:2:266:GLU:OE1	8:2:266:GLU:N	2.30	0.58
9:3:179:LEU:HG	9:3:296:GLY:HA2	1.85	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
9:3:459: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:32:TYR:HA	1:A:93:ARG:NH1	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:6:HIS:HA	2:B:7:LEU:C	2.28	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:98:ILE:H	5:E:99:ASP:HB3	1.69	0.58
5:E:158:ALA:HB2	5:E:237:LEU:HD13	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
9:3:38:TYR:OH	9:3:99:SER:N	2.25	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
9:3:520:PHE:HB3	9:3:527:ARG:NH2	2.19	0.58
10:4:239:SER:OG	10:4:240:ASN:N	2.28	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
13:7:89:GLN:O	13:7:93:PHE:HB2	2.02	0.58
13:7:414:LEU:O	13:7:418:ILE:HD12	2.03	0.58
2:B:90:PRO:HB3	2:B:92:TRP:NE1	2.18	0.58
4:D:218:MET:HA	4:D:219:ILE:C	2.27	0.58
5:E:28:VAL:CG2	5:E:57:GLN:HB3	2.28	0.58
5:E:342:ASN:ND2	5:E:551:TRP:HA	2.19	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
10:4:649:MET:HE2	10:4:701:ARG:HG2	1.85	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:546:ILE:HD11	13:7:559:ALA:HB2	1.86	0.58
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
8:2:286: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
10:4:603:ALA:CB	10:4:658:LYS:HE2	2.32	0.57
10:4:642:ARG:HD3	10:4:698:LEU:CD2	2.34	0.57
10:4:645:LEU:O	10:4:649:MET:N	2.34	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
1:A:102:TRP:CH2	4:D:148:LEU:HD13	2.39	0.57
2:B:10:THR:CB	2:B:182:ARG:HD2	2.35	0.57
2:B:155:LYS:HA	2:B:158:LYS:CD	2.33	0.57
4:D:260:ILE:HG13	4:D:266:GLU:HG3	1.85	0.57
5:E:337:SER:O	5:E:341:SER:OG	2.19	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
8:2:327:ARG:HH12	8:2:420:PRO:CD	2.17	0.57
9:3:440:VAL:HA	11:5:505:ALA:HB1	1.85	0.57
9:3:485:ALA:O	9:3:489:VAL:N	2.37	0.57
9:3:695:SER:HB3	13:7:573:ARG:HH12	1.67	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
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
13:7:214:ARG:HB3	13:7:215:TYR:C	2.29	0.57
13:7:314:LYS:C	13:7:315:ILE:HD12	2.29	0.57
13:7:353:GLY:HA2	13:7:379:GLN:CB	2.34	0.57
1:A:127:GLU:CD	4:D:193:LEU:HD11	2.29	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
8:2:307: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
9:3:31:PHE:CG	9:3:32:LEU:HA	2.40	0.57
9:3:100:LEU:HB2	9:3:160:SER:HB2	1.87	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
11:5:65:MET:HA	11:5:68:LEU:HG	1.87	0.57
11:5:411:ASN:HB2	11:5:550:PHE:HA	1.84	0.57
12:6:130:GLY:HA3	12:6:131:GLU:C	2.29	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
2:B:56:ASP:OD1	2:B:56:ASP:N	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:25:CYS:H	5:E:26:GLN:CB	2.16	0.57
5:E:226:ARG:O	5:E:230:ILE:HG13	2.03	0.57
5:E:345:ASN:O	5:E:349:SER:N	2.37	0.57
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
8:2:311:GLU:CD	12:6:354:LEU:HA	2.30	0.57
8:2:766:TYR:OH	8:2:823:MET:O	2.23	0.57
9:3:42:VAL:O	9:3:46:GLN:HG2	2.04	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
9:3:370:SER:OG	11:5:404:MET:SD	2.63	0.57
9:3:570:ARG:HD2	11:5:614:LEU:HD12	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
11:5:422:LYS:O	11:5:425:LEU:HB3	2.03	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
13:7:541:MET:HE3	13:7:594:PHE:CE1	2.32	0.57
13:7:581:LEU:CB	13:7:681:PHE:HE1	2.12	0.57
13:7:607:ASP:O	13:7:611:LYS:HG3	2.05	0.57
1:A:79:MET:C	4:D:206:LEU:HD11	2.29	0.57
2:B:30:ARG:NH1	2:B:86:SER:OG	2.35	0.57
5:E:38:ALA:HA	5:E:251:ILE:HD11	1.86	0.57
5:E:271:TRP:CZ2	5:E:275:LEU:HD21	2.40	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
8:2:307: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
10:4:726:ASN:C	10:4:727:LEU:HG	2.29	0.57
11:5:93:ALA:HA	11:5:96:GLN:CD	2.29	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: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
8:2:281:LEU:HD12	8:2:282:HIS:N	2.20	0.57
8:2:327:ARG:NH1	8:2:420:PRO:HD3	2.20	0.57
8:2:369:SER:HA	8:2:371:GLY:N	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:211:TYR:HB3	13:7:6:PRO:O	2.04	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
12:6:173:GLN:OE1	12:6:173:GLN:N	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
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:95:LEU:O	3:C:168:LYS:HD3	2.05	0.57
3:C:118:LYS:HZ2	3:C:122:ASN:HB2	1.67	0.57
5:E:86:PHE:CZ	5:E:625:PHE:HB2	2.39	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
10:4:331:LEU:HA	10:4:431:ASP:C	2.30	0.57
10:4:419:VAL:HG12	10:4:463:VAL:CG2	2.32	0.57
10:4:458:LYS:NZ	12:6:413:PRO:HD3	2.20	0.57
10:4:524:ARG:HG3	10:4:742:LEU:CD2	2.34	0.57
10:4:720:LEU:O	10:4:724:LEU:HG	2.04	0.57
10:4:802:ILE:HD13	12:6:735:HIS:HB3	1.85	0.57
11:5:90:PHE:O	11:5:94:ILE:HD12	2.05	0.57
11:5:482:PHE:CZ	11:5:550:PHE:HZ	2.22	0.57
1:A:17:LYS:O	1:A:21:ALA:N	2.38	0.57
1:A:29:LEU:HD21	1:A:96:ILE:CG2	2.26	0.57
1:A:193:GLN:O	1:A:197:GLU:HG3	2.05	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:98:ILE:HD12	4:D:99:GLU:N	2.20	0.57
4:D:258:VAL:HA	4:D:259:THR:CG2	2.35	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
8:2:216: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
9:3:477:LYS:HB3	11:5:491:VAL:HG11	1.87	0.57
9:3:562:SER:HB2	11:5:623:SER:HB2	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
11:5:50:LEU:CD2	11:5:54:ILE:HD11	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:301:TYR:CD2	11:5:327:TYR:HB3	2.39	0.57
12:6:364:ASN:CG	12:6:394:ARG:HD3	2.29	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
13:7:26: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
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
1:A:130:TYR:CE1	4:D:189:ILE:HG23	2.39	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: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
2:B:116:PRO:HD2	2:B:119:TRP:CD1	2.40	0.57
2:B:149:ARG:HH21	3:C:191:MET:HE3	1.69	0.57
5:E:68:ARG:O	5:E:72:SER:HB3	2.04	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
8:2:364:CYS:N	8:2:368:LYS:HA	2.19	0.57
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:HD12	12:6:452:ILE:N	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
13:7:349:VAL:HG23	13:7:382:ARG:C	2.30	0.57
13:7:366:LEU:C	13:7:367:LYS:HD2	2.29	0.57
13:7:461:ASP:CB	13:7:569:PRO:HD2	2.35	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
3:C:129:LEU:HD23	3:C:129:LEU:C	2.30	0.57
4:D:154:PHE:C	4:D:158:LEU:HG	2.30	0.57
5:E:129:TRP:HE3	5:E:133:ASN:ND2	2.03	0.57
5:E:244:GLY:HA3	5:E:603:ASN:H	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
8:2:327: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
9:3:434:GLY:C	9:3:478:MET:HG2	2.30	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
13:7:87:GLN:O	13:7:91:GLU:N	2.38	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
1:A:5:LEU:HA	1:A:8:LYS:CG	2.33	0.56
1:A:33:HIS:HB3	1:A:35:ASP:OD1	2.05	0.56
1:A:84:ARG:HH22	4:D:217:ASN:HB3	1.68	0.56
3:C:12:ASP:HB3	3:C:49:TRP:CD1	2.39	0.56
3:C:12:ASP:HB3	3:C:49:TRP:N	2.20	0.56
4:D:62:ASP:HA	4:D:65:LYS:HB3	1.87	0.56
5:E:34:LEU:HD11	5:E:543:LEU:HD21	1.86	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
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
13:7:470:LEU:HD21	13:7:564:LEU:CD2	2.35	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:285:ALA:HB3	5:E:286:GLN:C	2.29	0.56
5:E:489:VAL:O	5:E:492:LEU:HB3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:324:VAL:HG11	8:2:419:LYS:O	2.05	0.56
8:2:410:LEU:C	8:2:411:LEU:HD12	2.30	0.56
8:2:497:ILE:O	8:2:501:MET:HE2	2.05	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
11:5:180:SER:OG	11:5:247:SER:OG	2.16	0.56
12:6:656:MET:HG3	12:6:709:PHE:CE1	2.40	0.56
13:7:88:TYR:CE2	13:7:92:LYS:HD3	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
1:A:94:THR:HG21	4:D:190:TRP:HZ3	1.70	0.56
2:B:52:LEU:HD12	2:B:53:ILE:H	1.70	0.56
3:C:69:VAL:HG13	3:C:70:PRO:HD2	1.87	0.56
4:D:60:PHE:CE1	4:D:136:LEU:HG	2.40	0.56
4:D:253:LYS:HB3	4:D:254:PRO:HD3	1.87	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:HD12	5:E:29:ILE:O	2.05	0.56
5:E:310:VAL:CG1	5:E:311:LYS:HD2	2.34	0.56
8:2:361:ILE:CB	8:2:373:PHE:HB2	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
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
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
10:4:243:LEU:HB3	10:4:305:PRO:HA	1.86	0.56
10:4:319:PRO:CB	13:7:253:PRO:HB3	2.22	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
10:4:770:LEU:CD1	10:4:801:MET:HB3	2.33	0.56
11:5:298:TYR:HA	11:5:328:ILE:HG12	1.86	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
12:6:597:TYR:OH	12:6:639:ASP:OD2	2.22	0.56
12:6:606:ALA:HB1	12:6:609:THR:O	2.05	0.56
13:7:260:TYR:CD2	13:7:281:LEU:HD11	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:318:LEU:HD22	13:7:320:GLN:CG	2.28	0.56
1:A:108:ASP:HB3	1:A:109:LEU:CA	2.35	0.56
4:D:259:THR:OG1	4:D:260:ILE:N	2.34	0.56
8:2:603:VAL:CG2	8:2:645:SER:HB2	2.34	0.56
8:2:624:MET:O	8:2:627:GLN:NE2	2.38	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
10:4:728:TYR:HD1	13:7:652:MET:HE3	1.69	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
12:6:544:LYS:HE2	12:6:584:PHE:HE1	1.70	0.56
12:6:560:VAL:CB	12:6:561:GLU:HA	2.23	0.56
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: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:59:ASP:HA	4:D:83:LEU:HD11	1.88	0.56
4:D:211:ASP:OD2	4:D:213:GLU:HB3	2.06	0.56
5:E:577:ASP:O	5:E:633:ARG:HA	2.06	0.56
8:2:589:TRP:CD1	8:2:590:THR:H	2.23	0.56
10:4:181:TRP:CH2	13:7:149:ARG:HB2	2.40	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
10:4:601:LEU:HG	10:4:621:LEU:HG	1.87	0.56
11:5:91:GLU:HB3	11:5:134:THR:HG22	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
12:6:149:ASN:HB3	12:6:262:VAL:O	2.06	0.56
12:6:193:ALA:HB1	12:6:194:PRO:HD2	1.87	0.56
12:6:781:ARG:HD2	12:6:795:ILE:HB	1.88	0.56
12:6:801:GLU:CD	12:6:805:ARG:HH21	2.13	0.56
12:6:803:MET:CE	12:6:828:TYR:HA	2.34	0.56
13:7:211:CYS:O	13:7:214:ARG:HB2	2.06	0.56
13:7:518:ASN:H	13:7:560:ARG:C	2.13	0.56
1:A:151:LEU:HA	4:D:141:ARG:HD3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:27:ILE:O	2:B:68:SER:HA	2.06	0.56
2:B:193:ARG:HD3	4:D:227:PHE:CZ	2.40	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
8:2:562:ARG:CD	8:2:599:ALA:HB1	2.36	0.56
8:2:591:LEU:HD22	11:5:270:MET:CE	2.35	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:HD12	13:7:298:LEU:O	2.05	0.56
13:7:383:GLN:HB2	13:7:386:LYS:CE	2.36	0.56
4:D:79:TYR:HE2	4:D:81:HIS:HB3	1.71	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
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
8:2:327:ARG:HH12	8:2:420:PRO:N	2.04	0.56
8:2:543:GLY:CA	8:2:549:LYS:HZ3	2.14	0.56
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
12:6:276:ILE:HD13	12:6:375:ARG:HG3	1.88	0.56
12:6:356:TRP:CE3	12:6:380:ILE:HG23	2.40	0.56
12:6:660:THR:CG2	12:6:673:ASN:HA	2.35	0.56
13:7:318:LEU:O	13:7:319:SER:OG	2.22	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
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
8:2:307:ARG:CZ	8:2:398:PRO:HG3	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:231:TYR:CG	9:3:232:PRO:HD2	2.40	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
10:4:729:LEU:HB3	10:4:730:GLU:CD	2.31	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
13:7:438:GLY:O	13:7:701:LYS:NZ	2.30	0.56
1:A:15:ARG:HH22	11:5:670:PRO:CD	2.19	0.56
1:A:78:CYS:CA	1:A:81:ARG:HB3	2.36	0.56
1:A:109:LEU:HD23	1:A:109:LEU:O	2.06	0.56
1:A:162:PHE:CE1	1:A:192:ARG:HB3	2.41	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
8:2:319: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
10:4:375:ASP:HA	10:4:376:CYS:C	2.31	0.56
10:4:443:PRO:HG3	13:7:300:MET:HE1	1.86	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
11:5:53:ASN:HB3	11:5:58:ASN:HB3	1.88	0.56
11:5:172:LEU:HB3	11:5:252:ASP:CG	2.30	0.56
11:5:588:GLU:HB3	11:5:593:GLU:HB3	1.88	0.56
12:6:702:THR:CG2	12:6:704:PRO:HG2	2.36	0.56
13:7:22:THR:HG22	13:7:25:LEU:HD12	1.87	0.56
13:7:88:TYR:HA	13:7:91:GLU:HB2	1.88	0.56
13:7:196:LEU:CD2	13:7:197:THR:HG23	2.36	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
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:98:ILE:CA	5:E:99:ASP:HB3	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
10:4:620:ALA:O	10:4:624:SER:OG	2.22	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
12:6:568:ASP:CG	12:6:569:ILE:H	2.13	0.56
12:6:588:VAL:CA	12:6:591:PHE:HB3	2.28	0.56
13:7:88:TYR:O	13:7:92:LYS:HG2	2.06	0.56
13:7:459:MET:CE	13:7:584:ILE:HG23	2.36	0.56
13:7:520:ILE:HA	13:7:562:SER:CB	2.29	0.56
1:A:71:GLN:CA	1:A:74:VAL:HB	2.30	0.55
1:A:101:ALA:O	1:A:105:ASN:ND2	2.39	0.55
3:C:53:ILE:HA	3:C:56:ILE:HG13	1.86	0.55
3:C:112:ILE:HD12	3:C:120:LEU:CD1	2.36	0.55
4:D:199:LEU:HD13	4:D:202:MET:HE3	1.86	0.55
5:E:13:ASN:HA	5:E:16:LEU:CD1	2.37	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
5:E:293:PRO:HA	5:E:296:GLN:CB	2.21	0.55
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
9:3:250: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
10:4:243:LEU:HD22	10:4:305:PRO:CB	2.35	0.55
10:4:272:MET:O	10:4:276:ILE:HG13	2.06	0.55
10:4:364:VAL:HB	12:6:420:THR:O	2.06	0.55
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
11:5:62:THR:HA	11:5:138:ILE:O	2.06	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
12:6:288:LEU:HG	12:6:290:ILE:CD1	2.36	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:374:THR:O	13:7:375:TYR:HB3	2.06	0.55
1:A:173:GLU:OE1	1:A:173:GLU:N	2.39	0.55
3:C:27:LEU:HB2	3:C:36:ARG:O	2.05	0.55
3:C:109:ILE:O	3:C:112:ILE:HG22	2.07	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
8:2:264: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
8:2:554:LYS:HA	8:2:557:GLU:CD	2.31	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
11:5:182:MET:CE	11:5:189:THR:HG22	2.34	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
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
13:7:490:GLY:CA	13:7:493:LEU:HG	2.31	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
4:D:258:VAL:HA	4:D:259:THR:HG1	1.72	0.55
5:E:425:VAL:O	5:E:429:THR:HG23	2.06	0.55
8:2:271:PHE:CE2	8:2:295:VAL:HG21	2.42	0.55
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
10:4:348: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
10:4:356:MET:N	10:4:356:MET:HE2	2.22	0.55
10:4:718:ARG:HG3	13:7:661:VAL:CG1	2.35	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
1:A:149:ILE:HG22	1:A:151:LEU:HD12	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
8:2:204: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
9:3:45:ILE:HG22	9:3:49:ASN:ND2	2.21	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
9:3:673: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
11:5:412:VAL:C	11:5:413:LEU:HD12	2.32	0.55
11:5:502:ILE:O	11:5:513:LEU:N	2.40	0.55
13:7:28:PHE:HE2	13:7:31:ASP:HB2	1.72	0.55
13:7:110:ALA:HA	13:7:113:PHE:CD2	2.38	0.55
13:7:458:LEU:CD2	13:7:598:PHE:HB2	2.36	0.55
13:7:543:GLN:NE2	13:7:559:ALA:O	2.39	0.55
13:7:670:ASP:OD1	13:7:671:SER:N	2.39	0.55
2:B:127:PHE:O	2:B:131:LYS:HD3	2.07	0.55
8:2:268:LEU:O	8:2:272:ASP:N	2.32	0.55
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
10:4:616:LEU:HB2	12:6:362:GLN:OE1	2.06	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
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
13:7:228:ARG:HD3	13:7:329:ARG:HD2	1.88	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
8:2:346: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:24:ARG:HD3	9:3:121:PHE:HD1	1.70	0.55
9:3:236:THR:HA	9:3:237:GLU:C	2.31	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
10:4:602: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
12:6:702: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:O	13:7:318:LEU:HD23	2.06	0.55
13:7:333:ILE:HG12	13:7:376:LEU:HB3	1.89	0.55
1:A:32:TYR:CD2	1:A:124:SER:HB3	2.42	0.55
1:A:100:MET:HE2	1:A:117:GLN:HG2	1.88	0.55
1:A:139:THR:HA	1:A:142:LYS:HD2	1.88	0.55
2:B:82:GLN:CD	2:B:84:LYS:HD2	2.31	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
8:2:661: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
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
12:6:819:ILE:HG22	12:6:820:THR:N	2.08	0.55
13:7:80:ILE:O	13:7:205:LYS:N	2.27	0.55
13:7:370:LEU:O	13:7:370:LEU:HD13	2.06	0.55
2:B:55:THR:HG22	4:D:94:GLN:NE2	2.21	0.55
4:D:178:ASP:HA	4:D:181:LYS:HE2	1.88	0.55
5:E:349:SER:HA	5:E:351:TRP:CH2	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:H	5:E:519:ILE:HD12	1.71	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
9:3:95:ARG:CZ	9:3:282:LEU:HD21	2.36	0.55
9:3:200:VAL:O	9:3:244:GLU:HB2	2.06	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
10:4:319:PRO:HG2	13:7:309:ALA:HB2	1.87	0.55
10:4:445:ARG:HD2	10:4:450:GLN:O	2.05	0.55
10:4:529:SER:OG	13:7:448:MET:SD	2.63	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
12:6:572:CYS:O	12:6:712:PHE:HB3	2.07	0.55
12:6:706:MET:HE2	12:6:793:TYR:HE1	1.72	0.55
13:7:362:GLY:HA3	13:7:364:LYS:N	2.21	0.55
1:A:90:GLN:O	1:A:94:THR:N	2.33	0.55
1:A:105:ASN:O	1:A:152:SER:OG	2.25	0.55
1:A:110:MET:HE3	1:A:112:SER:CA	2.36	0.55
2:B:19:ILE:O	2:B:22:ASN:ND2	2.30	0.55
2:B:184:PHE:CE1	3:C:136:ASN:HB2	2.42	0.55
4:D:257:THR:O	4:D:259:THR:HG23	2.07	0.55
5:E:75:ASP:HB3	5:E:118:ARG:NH1	2.20	0.55
5:E:505:ALA:HA	5:E:508:ASN:HB3	1.88	0.55
8:2:574:VAL:CG1	12:6:664:ALA:HB3	2.34	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:559:THR:HG23	12:6:565:LEU:HD21	1.89	0.55
12:6:773:LEU:C	12:6:773:LEU:HD23	2.31	0.55
13:7:339:LEU:HD23	13:7:339:LEU:O	2.07	0.55
13:7:352:THR:OG1	13:7:380:PHE:HB3	2.06	0.55
2:B:197:THR:HG22	4:D:263:LEU:CD2	2.37	0.55
3:C:50:LEU:CD1	3:C:54:LEU:HD11	2.37	0.55
4:D:292:ALA:C	4:D:293:LEU:HD12	2.32	0.55
5:E:41:ALA:HA	5:E:44:MET:SD	2.47	0.55
5:E:271:TRP:HA	5:E:274:ILE:HD12	1.88	0.55
5:E:323:ASP:O	5:E:405:ILE:HA	2.07	0.55
5:E:348:LEU:HB2	5:E:350:LEU:CD2	2.37	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
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
11:5:87:ILE:N	11:5:88:PRO:HD2	2.22	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
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
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:17:GLN:HB2	2:B:121:VAL:HG11	1.89	0.54
2:B:160:LEU:HD13	3:C:136:ASN:ND2	2.22	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
8:2:227: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
8:2:674:LEU:HD23	8:2:674:LEU:C	2.32	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
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
1:A:31:MET:HG2	1:A:32:TYR:N	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:A:135:CYS:O	1:A:138:ILE:HG22	2.07	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:382:HIS:N	11:5:77:LYS:HZ3	2.04	0.54
5:E:492:LEU:HG	5:E:496:ILE:HD11	1.89	0.54
8:2:317:LEU:HG	8:2:428:GLY:O	2.08	0.54
8:2:327:ARG:NH2	8:2:420:PRO:HD3	2.22	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
10:4:564:ILE:HG23	10:4:704:LEU:C	2.32	0.54
10:4:650:GLU:HB3	12:6:586:LYS:HE2	1.88	0.54
10:4:678:ILE:CD1	10:4:693:ASP:HB2	2.37	0.54
10:4:777:MET:HE1	10:4:833:ILE:CD1	2.25	0.54
11:5:36:LEU:CD2	11:5:47:ARG:HD2	2.37	0.54
11:5:365:LYS:HD2	11:5:365:LYS:N	2.22	0.54
11:5:625:ASN:HD21	11:5:681:ILE:CG2	2.20	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
13:7:317:GLU:CD	13:7:322:VAL:HG22	2.31	0.54
13:7:415:ALA:CB	13:7:430:LYS:HD2	2.37	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
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
10:4:211:GLU:HG3	10:4:212:ARG:HG2	1.89	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
12:6:764:ILE:O	12:6:818:GLU:HG2	2.07	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
13:7:67:LEU:CD2	13:7:125:MET:HA	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:196:LEU:HD11	13:7:270:PHE:CE1	2.42	0.54
13:7:427:ASP:OD2	13:7:722:VAL:HG11	2.07	0.54
13:7:452:GLY:H	13:7:694:ARG:HD3	1.72	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
8:2:257: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
9:3:558:ASP:OD2	11:5:627:VAL:HA	2.08	0.54
9:3:700:ARG:HA	9:3:703:GLU:CD	2.33	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
11:5:64:ASN:O	11:5:68:LEU:HG	2.07	0.54
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
13:7:361:THR:OG1	13:7:362:GLY:N	2.36	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
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:377:TRP:O	5:E:385:LYS:NZ	2.24	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
8:2:383: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
8:2:634:ALA:O	11:5:448:GLY:N	2.40	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
1:A:136:ASP:O	1:A:139:THR:OG1	2.21	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
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
8:2:283: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
9:3:245:TYR:CD2	13:7:356:LEU:HD22	2.42	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
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
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:108:ASP:H	1:A:109:LEU:C	2.16	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
8:2:241:SER:HA	8:2:293:ILE:HG23	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:247:ARG:HH22	8:2:301:PRO:HG2	1.73	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
8:2:812: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
9:3:38:TYR:CD2	9:3:98:ILE:HG12	2.43	0.54
9:3:195:LYS:HE2	9:3:216:ASP:OD2	2.07	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
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
13:7:353:GLY:HA2	13:7:379:GLN:HB2	1.89	0.54
1:A:91:ARG:HA	4:D:190:TRP:CH2	2.42	0.54
1:A:123:LEU:HD21	1:A:127:GLU:CB	2.28	0.54
3:C:82:THR:O	3:C:86:ASN:ND2	2.41	0.54
4:D:282:ILE:CD1	4:D:286:LEU:HD13	2.36	0.54
5:E:34:LEU:CD1	5:E:543:LEU:HD11	2.25	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
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
8:2:501:MET:HE1	8:2:516:ALA:CB	2.34	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
10:4:356:MET:HE2	10:4:356:MET:HA	1.90	0.54
10:4:610:ASP:OD1	10:4:611:THR:N	2.40	0.54
11:5:568:ILE:HA	11:5:571:HIS:CB	2.36	0.54
12:6:300:VAL:HG22	12:6:357:GLN:HB3	1.88	0.54
12:6:308:SER:HA	12:6:319:ASP:CA	2.37	0.54
13:7:26:VAL:HG13	13:7:64:MET:HG2	1.90	0.54
13:7:612:LEU:O	13:7:616:VAL:HG23	2.06	0.54
4:D:154:PHE:O	4:D:158:LEU:HG	2.08	0.54
5:E:499:ALA:HA	5:E:502:LEU:CD1	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
9:3:428:LEU:C	9:3:469:VAL:H	2.15	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
11:5:545:THR:O	11:5:548:SER:OG	2.21	0.54
12:6:112:ARG:HH21	12:6:180:PHE:HA	1.72	0.54
12:6:118:PHE:HD1	12:6:161:ARG:HH11	1.55	0.54
12:6:822:SER:O	12:6:826:GLU:HG3	2.06	0.54
13:7:213:ARG:C	13:7:215:TYR:HA	2.33	0.54
13:7:260:TYR:HB2	13:7:269:VAL:HB	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
8:2:334:LEU:HD11	11:5:322:ALA:O	2.07	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
10:4:454:LYS:HA	13:7:277:THR:HG22	1.90	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
11:5:630:ARG:HE	11:5:648:ILE:CG2	2.21	0.54
13:7:242:ARG:HB3	13:7:350:ASP:OD1	2.07	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
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:41:ALA:HA	5:E:44:MET:HG2	1.90	0.53
5:E:96:LEU:HB3	5:E:98:ILE:HD13	1.91	0.53
5:E:308:ASN:CB	5:E:310:VAL:HG23	2.35	0.53
5:E:382:HIS:HB2	11:5:77:LYS:HZ2	1.72	0.53
5:E:493:ASN:HA	5:E:496:ILE:CB	2.37	0.53
8:2:696:ALA:O	8:2:700:VAL:HG23	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:95:ARG:HH22	9:3:282:LEU:HD11	1.73	0.53
9:3:504:THR:HG22	13:7:316:GLN:NE2	2.23	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
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:37:ILE:HA	1:A:40:ILE:CD1	2.37	0.53
5:E:48:LEU:C	5:E:48:LEU:HD23	2.33	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
8:2:297: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
8:2:571:ALA:HB3	12:6:665:LYS:HE3	1.89	0.53
8:2:600:ASP:OD2	8:2:601:LYS:NZ	2.40	0.53
8:2:759:PRO:HG2	8:2:762:LEU:CG	2.38	0.53
9:3:291:ARG:C	9:3:329:LEU:HG	2.33	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
10:4:447: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:N	11:5:378:ILE:HD12	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
12:6:551:MET:CE	12:6:591:PHE:HE2	2.21	0.53
12:6:574:VAL:CA	12:6:581:LYS:HZ3	2.20	0.53
13:7:17:LEU:O	13:7:21:ILE:HG13	2.08	0.53
13:7:101:ASP:OD2	13:7:104:SER:N	2.38	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
4:D:91:ILE:HD12	4:D:92:SER:N	2.24	0.53
5:E:39:LEU:O	5:E:42:THR:OG1	2.23	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:509:THR:OG1	5:E:539:TYR:OH	2.15	0.53
8:2:203:VAL:O	8:2:206:THR:OG1	2.26	0.53
8:2:410:LEU:C	8:2:415:VAL:HG22	2.33	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
8:2:776:PRO:HA	8:2:827:GLU:O	2.07	0.53
9:3:48:TYR:CE2	9:3:92:LEU:HG	2.43	0.53
9:3:198:ARG:O	9:3:248:SER:HB2	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
13:7:228:ARG:HH22	13:7:326:HIS:CB	2.20	0.53
13:7:259:ALA:H	13:7:305:SER:HB3	1.74	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
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:94:GLN:HA	4:D:97:LEU:HB3	1.91	0.53
4:D:257:THR:O	4:D:269:LEU:HB2	2.09	0.53
5:E:24:SER:OG	5:E:55:GLN:HB2	2.09	0.53
5:E:66:GLU:HG3	5:E:70:HIS:CD2	2.43	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
6:F:10:DT:H2'	6:F:11:DC:C6	2.44	0.53
8:2:523:VAL:CG1	8:2:525:LYS:HB3	2.30	0.53
8:2:523:VAL:N	8:2:822:LYS:HZ1	2.06	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
10:4:351:VAL:C	10:4:353:ASP:HA	2.33	0.53
10:4:682:TYR:HB2	10:4:691:ASN:HD21	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:693:ASP:OD1	10:4:694:LEU:N	2.41	0.53
11:5:45:ILE:O	11:5:48:ASP:HB2	2.08	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
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
11:5:451:ALA:HA	11:5:467:GLY:HA3	1.89	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
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
8:2:239:SER:O	8:2:240:GLU:HG2	2.08	0.53
8:2:256:LEU:O	8:2:267:MET:HE2	2.09	0.53
8:2:455:SER:C	8:2:456:ILE:HD12	2.33	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
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
10:4:592:SER:CA	10:4:632:ASP:HB2	2.25	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
10:4:656: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:OE1	12:6:721:GLU:N	2.36	0.53
13:7:446:ASP:CB	13:7:448:MET:HE3	2.39	0.53
13:7:610:GLU:O	13:7:614:GLU:N	2.30	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:700:ALA:O	13:7:704:LEU:N	2.42	0.53
1:A:97:LEU:HB3	1:A:131:LEU:CD1	2.39	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
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
5:E:389:GLY:O	5:E:393:ASP:N	2.39	0.53
8:2:631:ILE:HA	11:5:443:GLY:H	1.72	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
12:6:173:GLN:HB3	12:6:177:PHE:CE2	2.43	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:173:GLU:H	1:A:173:GLU:CD	2.16	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
8:2:235: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
9:3:195:LYS:HZ3	13:7:371:LEU:HB2	1.73	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
10:4:433:ILE:HG23	10:4:467:LYS:C	2.34	0.53
10:4:463:VAL:HG23	10:4:463:VAL:O	2.08	0.53
10:4:630:CYS:HA	10:4:672:LEU:O	2.09	0.53
11:5:277:THR:OG1	11:5:329:LYS:HD2	2.09	0.53
11:5:302:ASN:ND2	11:5:324:ARG:HG2	2.24	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:A:84:ARG:HD2	3:C:3:TYR:CA	2.39	0.53
1:A:100:MET:HE3	1:A:104:ASN:ND2	2.23	0.53
1:A:104:ASN:C	1:A:106:GLY:HA3	2.34	0.53
1:A:175:GLN:HG2	1:A:183:LEU:CD2	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:21:SER:OG	5:E:25:CYS:O	2.24	0.53
5:E:356:LYS:HG2	5:E:360:HIS:CE1	2.42	0.53
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
8:2:208: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
10:4:727:LEU:HD22	13:7:444:VAL:CB	2.39	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
12:6:372:SER:O	12:6:373:MET:HB3	2.08	0.53
13:7:456:VAL:O	13:7:564:LEU:HG	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
1:A:103:ASN:OD1	1:A:104:ASN:N	2.41	0.53
1:A:165:VAL:HG22	1:A:207:LYS:O	2.09	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: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
8:2:500:SER:HB2	8:2:763:LEU:HD22	1.90	0.53
8:2:684:ARG:HB3	8:2:685:ASP:HB3	1.91	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
10:4:685:ASN:C	10:4:838:THR:HB	2.34	0.53
11:5:503:SER:C	11:5:504:ILE:HD12	2.34	0.53
12:6:570:ASN:C	12:6:571:ILE:HD12	2.34	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
3:C:16:PHE:C	3:C:45:SER:HA	2.33	0.53
3:C:82:THR:HA	3:C:85:MET:CG	2.39	0.53
5:E:98:ILE:N	5:E:98:ILE:HD12	2.24	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
10:4:499:ARG:CZ	10:4:749:MET:HB3	2.39	0.53
10:4:686:LEU:HG	10:4:687:PRO:HD2	1.91	0.53
11:5:97:VAL:HG22	11:5:100:ARG:HD2	1.91	0.53
11:5:137:LEU:C	11:5:137:LEU:HD12	2.34	0.53
11:5:425:LEU:HD23	11:5:425:LEU:C	2.34	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
1:A:52:GLU:O	1:A:56:GLU:N	2.42	0.52
1:A:113:ILE:HD12	1:A:113:ILE:N	2.24	0.52
2:B:54:THR:HG22	2:B:55:THR:H	1.74	0.52
2:B:142:ARG:NH1	5:E:314:ASP:OD2	2.42	0.52
4:D:103:MET:HE2	4:D:103:MET:HA	1.91	0.52
4:D:284:ASP:O	4:D:287:ARG:HB3	2.09	0.52
5:E:31:VAL:O	5:E:61:ILE:N	2.41	0.52
5:E:75:ASP:CG	5:E:118:ARG:HH12	2.17	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
8:2:810:LEU:C	8:2:810:LEU:HD23	2.34	0.52
9:3:340:GLN:HG2	9:3:341:MET:N	2.24	0.52
10:4:435:VAL:HG22	10:4:466:VAL:HG13	1.91	0.52
10:4:501:ILE:CD1	10:4:749:MET:HB2	2.39	0.52
10:4:530:ILE:HD12	10:4:530:ILE:N	2.24	0.52
11:5:77:LYS:HA	11:5:80:SER:CB	2.39	0.52
11:5:275:THR:C	11:5:276:MET:HE2	2.33	0.52
11:5:451:ALA:HB2	11:5:467:GLY:HA3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:481:GLU:O	11:5:484:LYS:N	2.43	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:157:PRO:HG3	4:D:138:PHE:CZ	2.43	0.52
3:C:75:LEU:CG	3:C:76:PRO:HD2	2.37	0.52
3:C:162:THR:OG1	3:C:163:SER:HA	2.09	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:258:LEU:HD23	5:E:258:LEU:C	2.35	0.52
5:E:344:VAL:CG1	5:E:350:LEU:HD11	2.38	0.52
5:E:345:ASN:HA	5:E:350:LEU:CD1	2.39	0.52
5:E:428:LEU:HA	5:E:431:LEU:CD1	2.39	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
9:3:413:THR:CG2	9:3:549:VAL:HG21	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
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
11:5:608:LEU:C	11:5:608:LEU:HD12	2.34	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
1:A:16:THR:HA	1:A:19:LEU:CD1	2.40	0.52
1:A:124:SER:OG	1:A:127:GLU:HG2	2.10	0.52
2:B:82:GLN:NE2	2:B:84:LYS:HD2	2.24	0.52
2:B:192:LEU:O	2:B:195:ILE:HG13	2.09	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
8:2:323: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
11:5:45: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
11:5:414:LEU:O	11:5:422:LYS:HD3	2.09	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:47:LEU:HD23	1:A:47:LEU:C	2.34	0.52
1:A:130:TYR:O	1:A:134:TYR:N	2.42	0.52
2:B:56:ASP:HB2	4:D:57:GLN:HG3	1.92	0.52
2:B:161:LYS:HA	3:C:133:GLN:CD	2.34	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
5:E:25:CYS:H	5:E:26:GLN:HB2	1.74	0.52
5:E:89:VAL:CG1	5:E:90:ILE:HD12	2.40	0.52
5:E:150:ASP:HB3	5:E:151:THR:CA	2.39	0.52
5:E:413:LEU:HD21	5:E:416:ARG:HD2	1.91	0.52
8:2:241:SER:OG	8:2:413:ASP:OD2	2.16	0.52
8:2:247:ARG:HH22	8:2:301:PRO:CG	2.23	0.52
8:2:419:LYS:CG	11:5:269:GLU:HG2	2.37	0.52
8:2:687:VAL:HG22	12:6:781:ARG:NH1	2.25	0.52
8:2:809:HIS:O	8:2:812:SER:OG	2.26	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
11:5:632:GLN:O	11:5:635:ILE:HB	2.08	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
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
13:7:451:ARG:NH2	13:7:694:ARG:HH22	2.07	0.52
13:7:458:LEU:HD13	13:7:600:MET:CE	2.34	0.52
2:B:58:LYS:HG2	2:B:58:LYS:O	2.09	0.52
2:B:66:MET:HE2	2:B:66:MET:H	1.74	0.52
2:B:95:THR:HA	2:B:98:LEU:HD12	1.91	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:351:TRP:HB3	5:E:511:VAL:HG22	1.91	0.52
5:E:498:LEU:O	5:E:502:LEU:HG	2.09	0.52
5:E:515:GLU:OE1	8:2:827:GLU:HB3	2.09	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:CB	10:4:258:TYR:HB2	2.39	0.52
10:4:248:LEU:CD1	10:4:258:TYR:HA	2.40	0.52
10:4:572:THR:HG21	10:4:708:VAL:CG1	2.39	0.52
10:4:603:ALA:HB3	10:4:658:LYS:HZ1	1.74	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
12:6:679:LEU:HD23	12:6:680:ALA:N	2.24	0.52
12:6:720:ASN:CG	12:6:723:ILE:HD13	2.35	0.52
13:7:335:VAL:HG12	13:7:340:VAL:HA	1.92	0.52
1:A:46:ASN:OD1	1:A:50:ASN:ND2	2.33	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
2:B:168:LEU:CB	2:B:170:LEU:HD21	2.39	0.52
3:C:166:LEU:O	3:C:166:LEU:HD23	2.10	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
8:2:574:VAL:CG1	12:6:669:HIS:HA	2.39	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
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:N	10:4:656:ILE:HD12	2.25	0.52
11:5:169:THR:HB	11:5:254:GLN:HG3	1.90	0.52
11:5:174:SER:HA	11:5:251:ILE:O	2.10	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
12:6:304:LEU:C	12:6:306:LYS:H	2.17	0.52
12:6:655:ALA:CB	12:6:661:ILE:HD11	2.36	0.52
12:6:690:ASN:O	12:6:693:LEU:HB2	2.10	0.52
12:6:732:VAL:CG1	12:6:736:MET:HE3	2.38	0.52
12:6:781:ARG:CG	12:6:795:ILE:HB	2.39	0.52
12:6:793:TYR:O	12:6:794:ARG:HD3	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:B:196:HIS:ND1	4:D:263:LEU:HD21	2.25	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
5:E:64:TYR:OH	5:E:90:ILE:HB	2.09	0.52
5:E:140:ILE:HB	5:E:141:GLN:C	2.35	0.52
5:E:287:VAL:C	5:E:291:LEU:HG	2.34	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
8:2:235:GLY:HA2	8:2:283:TYR:OH	2.09	0.52
8:2:586:THR:HA	8:2:587:LYS:C	2.34	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
9:3:129:LEU:HD23	9:3:129:LEU:C	2.35	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
11:5:86:ILE:HG23	11:5:89:LEU:CD1	2.29	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
12:6:103:VAL:O	12:6:107:THR:N	2.42	0.52
12:6:574:VAL:HG12	12:6:575:GLY:N	2.25	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
1:A:83:LYS:HE3	4:D:206:LEU:O	2.09	0.52
2:B:94:THR:HG22	2:B:96:LYS:CG	2.39	0.52
2:B:157:LEU:HD11	3:C:137:HIS:HD2	1.74	0.52
4:D:97:LEU:HD23	4:D:97:LEU:C	2.35	0.52
5:E:612:ILE:HA	5:E:615:GLU:CB	2.40	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
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
11:5:86: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
11:5:487:ASP:C	11:5:490:ARG:HB3	2.34	0.52
11:5:499:GLN:OE1	11:5:499:GLN:N	2.33	0.52
12:6:115:PHE:CE2	12:6:119:LEU:HD23	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:292:GLY:C	12:6:394:ARG:HA	2.34	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
12:6:632:ASP:CA	12:6:676:THR:HG22	2.32	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
12:6:821: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
3:C:95:LEU:HD23	3:C:96:ASP:C	2.34	0.52
5:E:57:GLN:OE1	5:E:58:ILE:N	2.41	0.52
5:E:140:ILE:HD12	5:E:140:ILE:O	2.10	0.52
5:E:150:ASP:HB3	5:E:151:THR:C	2.35	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
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
11:5:302:ASN:CG	11:5:324:ARG:NH1	2.68	0.52
11:5:352:GLU:OE1	11:5:352:GLU:N	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
12:6:185:LEU:HD23	12:6:185:LEU:C	2.34	0.52
13:7:143:LEU:HA	13:7:146:ARG:HD2	1.91	0.52
2:B:187:GLU:CD	3:C:176:ILE:HG22	2.35	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:OP1	6:F:16:DT:H6	1.93	0.52
8:2:338:LYS:NZ	8:2:376:ASN:OD1	2.42	0.52
8:2:581:ARG:HG2	8:2:633:LYS:C	2.35	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)
9:3:320:LEU:C	9:3:320:LEU:HD12	2.35	0.52
9:3:417:GLN:HG3	11:5:404:MET:CE	2.38	0.52
10:4:281:VAL:HG22	10:4:297:GLU:HB3	1.91	0.52
10:4:682:TYR:HB2	10:4:691:ASN:ND2	2.25	0.52
10:4:688:VAL:HG22	10:4:838:THR:HG23	1.92	0.52
11:5:148:LEU:O	11:5:272:ARG:NH1	2.43	0.52
11:5:490:ARG:HH21	11:5:540:ILE:HG23	1.74	0.52
11:5:536:PRO:HG3	11:5:643:ARG:CD	2.40	0.52
12:6:266:SER:HB2	12:6:458:HIS:HD2	1.75	0.52
12:6:377:LEU:HD22	12:6:452:ILE:HG22	1.92	0.52
12:6:655:ALA:HB2	12:6:661:ILE:CD1	2.38	0.52
12:6:803:MET:HE2	12:6:831:LEU:CD1	2.40	0.52
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
2:B:173:LEU:HD12	2:B:174:SER:H	1.75	0.51
4:D:123:LYS:CG	4:D:126:LEU:HD22	2.40	0.51
4:D:174:LEU:C	4:D:175:LEU:HD12	2.35	0.51
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:324:TYR:HB3	5:E:404:ILE:CG2	2.40	0.51
5:E:327:PHE:CZ	5:E:328:LEU:HG	2.45	0.51
7:G:5:DA:H5"	9:3:230:ILE:HD11	1.92	0.51
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
8:2:494:ILE:O	8:2:497:ILE:HB	2.10	0.51
8:2:497:ILE:HD13	8:2:823:MET:HE3	1.93	0.51
9:3:166:LEU:HD12	9:3:182:VAL:HG22	1.90	0.51
9:3:535:LEU:HB2	9:3:539:LEU:HD12	1.91	0.51
10:4:186:SER:OG	10:4:189:GLU:OE2	2.26	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
11:5:194:ILE:O	11:5:194:ILE:HG13	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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
4:D:123:LYS:O	4:D:126:LEU:HB3	2.11	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
12:6:552:LEU:CD1	12:6:755:ILE:HG23	2.31	0.51
12:6:655:ALA:CA	12:6:661:ILE:HD11	2.40	0.51
13:7:61:PRO:HG3	13:7:64:MET:HE3	1.93	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:39:ASN:N	1:A:42:LYS:HZ3	2.08	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
4:D:282:ILE:C	4:D:282:ILE:HD12	2.35	0.51
5:E:48:LEU:HD22	5:E:49:PHE:CD1	2.46	0.51
5:E:366:MET:HG2	5:E:391:ILE:HG22	1.91	0.51
5:E:533:GLY:O	5:E:536:LEU:HD23	2.10	0.51
5:E:600:PRO:C	5:E:602:LEU:H	2.18	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
11:5:88:PRO:HD3	11:5:196:ASN:ND2	2.17	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:585:ASN:O	11:5:589:GLU:HG2	2.09	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
12:6:695:LEU:HD22	12:6:706:MET:HE3	1.93	0.51
13:7:23:ASP:O	13:7:27:THR:OG1	2.28	0.51
13:7:145:GLN:HA	13:7:148:LEU:CB	2.40	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: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
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:OD1	9:3:275:ASP:N	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
11:5:378:ILE:HG23	14:5:801:ATP:N1	2.24	0.51
11:5:649:THR:O	11:5:652:GLN:HB2	2.10	0.51
12:6:118:PHE:CE1	12:6:161:ARG:HD3	2.45	0.51
12:6:289:SER:C	12:6:290:ILE:HD12	2.36	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
13:7:67:LEU:HD21	13:7:125:MET:CB	2.40	0.51
13:7:210:ASN:HA	13:7:213:ARG:HG2	1.92	0.51
1:A:16:THR:HA	1:A:19:LEU:CG	2.39	0.51
1:A:22:ARG:HH22	11:5:355:GLU:HB2	1.75	0.51
1:A:26:ASP:O	1:A:27:VAL:CG1	2.59	0.51
1:A:106:GLY:N	1:A:107:LEU:HD13	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:192:ARG:NH2	4:D:127:LEU:HD12	2.25	0.51
2:B:7:LEU:HD23	2:B:10:THR:CG2	2.37	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
3:C:19:LYS:O	3:C:73:GLU:N	2.39	0.51
3:C:98:HIS:O	3:C:102:SER:HB3	2.10	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
10:4:527:ALA:CB	10:4:530:ILE:HD13	2.26	0.51
10:4:545:PHE:CB	10:4:810:LYS:HD2	2.40	0.51
10:4:752:SER:HA	10:4:755:LYS:CD	2.36	0.51
11:5:151:LEU:CD1	11:5:274:LEU:HD11	2.39	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
12:6:560:VAL:C	12:6:562:GLY:HA3	2.35	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:O	13:7:205:LYS:HG3	2.11	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: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
8:2:325:THR:HB	8:2:389:THR:OG1	2.11	0.51
8:2:347:ILE:O	8:2:348:LEU:HB3	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
9:3:553:ILE:C	9:3:553:ILE:HD12	2.35	0.51
9:3:733:LEU:O	9:3:736:ALA:HB3	2.11	0.51
10:4:557:ARG:NH2	10:4:652:GLN:HB3	2.18	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:585:LEU:HD21	12:6:679:LEU:CD2	2.41	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
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:102:TRP:CE2	2:B:3:LEU:HG	2.46	0.51
2:B:105:GLU:OE2	2:B:112:PHE:HA	2.10	0.51
4:D:127:LEU:HD23	4:D:131:THR:OG1	2.10	0.51
5:E:97:GLU:HA	5:E:98:ILE:HB	1.93	0.51
5:E:357:LYS:O	5:E:361:LYS:N	2.42	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
8:2:600:ASP:C	8:2:602:GLY:H	2.18	0.51
8:2:601:LYS:N	8:2:643:ARG:O	2.28	0.51
9:3:314:LEU:O	11:5:175:ARG:NH2	2.44	0.51
9:3:405:ILE:HG22	9:3:406:LEU:N	2.26	0.51
9:3:702:LEU:HD22	13:7:616:VAL:HG11	1.93	0.51
10:4:344:VAL:HG22	10:4:359:GLU:HB3	1.92	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
11:5:63:VAL:CG1	11:5:68:LEU:HD21	2.41	0.51
11:5:148:LEU:HD23	11:5:260:GLU:CB	2.38	0.51
11:5:412:VAL:CB	11:5:520:LEU:HG	2.24	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
11:5:543:GLN:HG3	11:5:546:ILE:CD1	2.40	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
12:6:736:MET:HE2	12:6:736:MET:CA	2.39	0.51
1:A:169:LYS:HA	1:A:185:LYS:HD3	1.93	0.51
2:B:163:LEU:C	2:B:189:MET:HE1	2.35	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
8:2:502: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
10:4:331:LEU:HB2	10:4:430:GLY:C	2.36	0.51
11:5:608:LEU:CD1	11:5:609:LYS:HZ2	2.21	0.51
11:5:657:ILE:O	11:5:660:THR:OG1	2.18	0.51
12:6:303:GLU:HB2	12:6:356:TRP:HD1	1.72	0.51
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
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
8:2:242:LEU:HB3	8:2:295:VAL:HG12	1.92	0.51
8:2:394:PRO:HB2	12:6:672:LEU:HD23	1.93	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
9:3:372:TYR:CZ	9:3:561:ILE:HA	2.45	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
10:4:530:ILE:HB	10:4:537:LYS:HZ1	1.75	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
13:7:404:LEU:HD23	13:7:404:LEU:O	2.11	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
7:G:14:DT:H2"	7:G:15:DC:C5	2.46	0.51
8:2:499:SER:O	8:2:503:PRO:HG3	2.11	0.51
8:2:522:GLY:HA3	8:2:818:GLU:CD	2.35	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:581:LEU:HD23	13:7:581:LEU:C	2.36	0.51
13:7:587:PRO:HG2	13:7:590:LEU:HB3	1.91	0.51
13:7:704:LEU:C	13:7:706:ASP:H	2.16	0.51
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: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
8:2:323: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
10:4:545:PHE:CA	10:4:810:LYS:HD2	2.40	0.50
10:4:564:ILE:HD12	10:4:564:ILE:N	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
10:4:819:LEU:HD23	10:4:819:LEU:C	2.36	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: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
2:B:79:LEU:CD2	4:D:124:LEU:HD23	2.41	0.50
2:B:181:LEU:C	2:B:181:LEU:HD12	2.37	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
4:D:156:LEU:HD12	4:D:218:MET:HE2	1.93	0.50
5:E:433:GLU:HA	5:E:541:ASN:HD22	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
8:2:488:SER:CB	8:2:825:LEU:HD22	2.41	0.50
8:2:629:ILE:O	11:5:445:SER:HB2	2.11	0.50
8:2:798:ILE:HD13	11:5:560:HIS:CB	2.31	0.50
9:3:43:ARG:O	9:3:47:VAL:HG23	2.11	0.50
9:3:254:GLN:N	9:3:278:LEU:O	2.45	0.50
9:3:258:VAL:O	9:3:273:SER:HA	2.12	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
10:4:572:THR:O	10:4:573:SER:OG	2.22	0.50
11:5:374:ILE:HG23	11:5:428:PHE:HE2	1.74	0.50
11:5:540:ILE:HG21	11:5:546:ILE:CG2	2.41	0.50
11:5:540:ILE:HG21	11:5:546:ILE:HB	1.93	0.50
12:6:764:ILE:C	12:6:818:GLU:HA	2.36	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: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:9:GLN:OE1	2:B:9:GLN:N	2.40	0.50
2:B:124:ARG:HD3	3:C:190:TRP:CH2	2.47	0.50
3:C:113:MET:HE2	3:C:113:MET:HA	1.93	0.50
4:D:87:LEU:O	4:D:91:ILE:HG23	2.11	0.50
4:D:156:LEU:O	4:D:160:GLN:HG2	2.11	0.50
5:E:43:LYS:HB2	5:E:481:TRP:CH2	2.46	0.50
5:E:97:GLU:HA	5:E:98:ILE:O	2.10	0.50
5:E:545:LEU:HA	5:E:548:LEU:CB	2.37	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
9:3:158:LYS:HB2	9:3:327:TYR:CZ	2.46	0.50
9:3:190:SER:HB2	9:3:255:ARG:HG3	1.92	0.50
9:3:235:ASP:H	9:3:241:LEU:HD11	1.76	0.50
9:3:447:THR:HG22	9:3:455:ARG:HE	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:570:ARG:HH12	11:5:616:PRO:HB3	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
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
13:7:363:PHE:O	13:7:364:LYS:HB2	2.10	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: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:27:LEU:C	5:E:27:LEU:HD22	2.37	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
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
8:2:335:LYS:CD	8:2:383:ARG:HD3	2.42	0.50
8:2:541:LEU:HD23	8:2:541:LEU:C	2.36	0.50
8:2:637:VAL:HB	11:5:447:ALA:HB2	1.92	0.50
9:3:191:LEU:HB3	9:3:456:ARG:HE	1.75	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
9:3:408:VAL:CA	9:3:415:LYS:HZ3	2.20	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
10:4:569:ASP:O	10:4:572:THR:OG1	2.26	0.50
11:5:368:GLU:HA	11:5:371:THR:CG2	2.42	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
12:6:714:VAL:O	12:6:837:ARG:HD3	2.11	0.50
12:6:733:ASP:O	12:6:736:MET:HB2	2.10	0.50
13:7:322:VAL:HG12	13:7:323:PRO:O	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:22:ARG:NH2	11:5:355:GLU:HB2	2.27	0.50
1:A:39:ASN:HA	1:A:42:LYS:HE2	1.92	0.50
1:A:62:MET:HE2	1:A:62:MET:CA	2.42	0.50
3:C:92:PRO:O	3:C:131:ARG:NE	2.44	0.50
3:C:111:TRP:CE3	3:C:114:LEU:HD23	2.46	0.50
4:D:258:VAL:HG13	4:D:260:ILE:N	2.27	0.50
5:E:26:GLN:HB3	5:E:78:ILE:HA	1.93	0.50
5:E:31:VAL:HG11	5:E:477:PHE:HZ	1.77	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:288:TYR:HA	5:E:291:LEU:HD12	1.92	0.50
5:E:554:GLU:OE1	5:E:587:ARG:HB2	2.11	0.50
8:2:611:LYS:HB3	12:6:650:VAL:HG11	1.92	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
11:5:31:PHE:CZ	11:5:90:PHE:HE1	2.30	0.50
11:5:192:ILE:HG22	11:5:193:THR:N	2.27	0.50
12:6:556:HIS:HA	12:6:567:GLY:CA	2.42	0.50
13:7:77:SER:HB3	13:7:338:THR:OG1	2.12	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
13:7:685:THR:HB	13:7:686:PRO:HD2	1.93	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
5:E:318:LEU:C	5:E:318:LEU:HD12	2.37	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
8:2:301: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:231:ASN:OD1	10:4:283:LEU:HD21	2.11	0.50
10:4:337:PRO:HA	12:6:375:ARG:HD3	1.93	0.50
10:4:728:TYR:HA	13:7:652:MET:CE	2.41	0.50
11:5:40:LEU:HD12	11:5:40:LEU:O	2.11	0.50
11:5:61:LEU:HD22	11:5:63:VAL:HG23	1.93	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
11:5:599:MET:O	11:5:602:TYR:HB3	2.12	0.50
12:6:373:MET:HG3	12:6:374:PRO:HD2	1.93	0.50
12:6:531:ARG:HG3	12:6:745:PRO:HG3	1.94	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
13:7:415:ALA:HA	13:7:418:ILE:CD1	2.42	0.50
13:7:522:CYS:C	13:7:523:ILE:HG13	2.35	0.50
13:7:587:PRO:O	13:7:590:LEU:HB3	2.11	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
5:E:535:ASP:OD1	11:5:583:MET:HE2	2.12	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
8:2:562:ARG:HD2	8:2:602:GLY:N	2.27	0.50
8:2:566:ALA:O	8:2:567:THR:HG22	2.12	0.50
8:2:672:PRO:O	8:2:675:SER:HB3	2.12	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
9:3:197: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
9:3:416:SER:N	14:3:1001:ATP:O2B	2.43	0.50
9:3:467:ARG:HG3	13:7:324:VAL:HG11	1.92	0.50
9:3:535:LEU:O	9:3:535:LEU:HD12	2.11	0.50
9:3:570:ARG:HA	11:5:613:ARG:HH21	1.76	0.50
11:5:451:ALA:CB	11:5:467:GLY:HA3	2.41	0.50
13:7:61:PRO:HG2	13:7:64:MET:CG	2.37	0.50
13:7:259:ALA:N	13:7:305:SER:HB3	2.26	0.50
1:A:129:GLU:O	1:A:132:LYS:HG2	2.12	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:245:ASN:HA	8:2:298:SER:OG	2.12	0.50
8:2:292:GLU:C	8:2:293:ILE:HD12	2.37	0.50
8:2:580:VAL:HG21	8:2:592:GLU:N	2.26	0.50
8:2:622:GLU:HB2	11:5:481:GLU:OE2	2.12	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
9:3:392:ASN:CG	9:3:398:HIS:HB3	2.37	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
11:5:84:SER:HA	11:5:87:ILE:HD11	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
11:5:634:LEU:HA	11:5:637:GLU:CB	2.42	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
12:6:282:GLU:H	12:6:282:GLU:CD	2.18	0.50
12:6:548:LEU:H	12:6:548:LEU:CD1	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
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
2:B:167:HIS:NE2	4:D:267:VAL:HG11	2.27	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
8:2:212:LYS:O	8:2:215:LEU:HB3	2.12	0.50
9:3:42:VAL:HG13	9:3:153:TRP:CZ3	2.47	0.50
9:3:254:GLN:NE2	9:3:278:LEU:HD12	2.26	0.50
10:4:314:MET:HG2	10:4:413:HIS:CD2	2.46	0.50
10:4:356:MET:HE2	10:4:356:MET:CA	2.42	0.50
11:5:500:GLN:NE2	11:5:516:ARG:HA	2.26	0.50
11:5:562:GLU:H	11:5:562:GLU:CD	2.20	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:N	12:6:668:ILE:HD12	2.26	0.50
13:7:66:MET:O	13:7:69:LYS:HB3	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:414:LEU:O	13:7:417:SER:HB2	2.11	0.50
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
4:D:93:MET:HE2	4:D:93:MET:CA	2.39	0.49
4:D:191:LEU:HD23	4:D:191:LEU:O	2.12	0.49
5:E:38:ALA:HB1	5:E:84:VAL:HG11	1.95	0.49
5:E:376:THR:HG22	5:E:378:LEU:N	2.19	0.49
5:E:581:VAL:O	5:E:629:ILE:HA	2.12	0.49
8:2:335:LYS:CB	8:2:382:TYR:HA	2.41	0.49
8:2:656:ARG:HH11	12:6:794:ARG:HD3	1.77	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
11:5:595:SER:C	11:5:596:ILE:HD12	2.37	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
12:6:684:PRO:HB2	12:6:687:GLY:H	1.76	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
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:62:ASP:O	4:D:65:LYS:HB3	2.12	0.49
4:D:141:ARG:HA	4:D:144:ILE:CG1	2.41	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
5:E:567:MET:C	5:E:584:LEU:HD12	2.37	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
10:4:433:ILE:HG23	10:4:469:VAL:CA	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
11:5:28:ILE:HG23	11:5:93:ALA:CB	2.40	0.49
11:5:287:ILE:HB	11:5:290:THR:HG21	1.94	0.49
11:5:485:MET:HE3	11:5:490:ARG:CB	2.42	0.49
11:5:564:ARG:O	11:5:567:SER:OG	2.30	0.49
12:6:141:GLU:O	12:6:145:ILE:HG12	2.12	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
13:7:28:PHE:O	13:7:61:PRO:HB3	2.13	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
13:7:668:ARG:NH2	13:7:686:PRO:HD3	2.27	0.49
1:A:151:LEU:C	1:A:151:LEU:HD22	2.38	0.49
2:B:25:ILE:HD12	2:B:87:ILE:HD11	1.93	0.49
2:B:28:PHE:CE1	2:B:68:SER:HB2	2.39	0.49
2:B:90:PRO:HB2	2:B:93:LEU:CB	2.42	0.49
3:C:85:MET:O	3:C:89:LYS:HG3	2.13	0.49
3:C:131:ARG:O	3:C:135:LEU:HG	2.12	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
8:2:310: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
8:2:695:LEU:HD11	14:2:901:ATP:N6	2.26	0.49
8:2:839:LYS:HD3	8:2:864:TYR:HA	1.94	0.49
9:3:38:TYR:HE2	9:3:98:ILE:HG23	1.77	0.49
9:3:121:PHE:O	9:3:124:PRO:HG2	2.11	0.49
9:3:196:LEU:N	13:7:372:THR:HG23	2.26	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
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
10:4:567:CYS:CB	10:4:675:ALA:HB3	2.42	0.49
10:4:580:TYR:CE2	10:4:584:ILE:HD11	2.47	0.49
10:4:621:LEU:HD21	10:4:645:LEU:CD2	2.42	0.49
10:4:621:LEU:HB3	10:4:654:ILE:HD11	1.94	0.49
11:5:172:LEU:HB3	11:5:252:ASP:OD1	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
13:7:696:SER:HB2	13:7:713:VAL:HA	1.93	0.49
1:A:41:LEU:HD22	4:D:201:TYR:CG	2.47	0.49
2:B:53:ILE:H	2:B:53:ILE:HD12	1.77	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
7:G:5:DA:H5"	9:3:230:ILE:HD12	1.94	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
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
10:4:505:ASP:CG	10:4:749:MET:HE1	2.37	0.49
11:5:87:ILE:HB	11:5:196:ASN:HD21	1.78	0.49
11:5:202:GLY:N	11:5:203:ASN:HA	2.28	0.49
11:5:390:CYS:HB2	11:5:662:SER:HB2	1.94	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
12:6:158:LEU:O	12:6:158:LEU:HD23	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
13:7:14:TYR:HD1	13:7:17:LEU:HD22	1.78	0.49
13:7:127:LEU:CG	13:7:128:PRO:HD3	2.34	0.49
13:7:397:VAL:HG12	13:7:640:GLU:HG2	1.93	0.49
4:D:170:SER:CB	4:D:175:LEU:HD22	2.42	0.49
5:E:99:ASP:O	5:E:101:GLN:HG3	2.13	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
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
10:4:552:PHE:HA	12:6:740:GLU:OE1	2.12	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:300:VAL:CG2	12:6:357:GLN:HB3	2.42	0.49
13:7:85:ILE:HG22	13:7:89:GLN:CD	2.37	0.49
13:7:220:ILE:HD12	13:7:220:ILE:N	2.28	0.49
13:7:322:VAL:CG1	13:7:323:PRO:HD2	2.42	0.49
13:7:470:LEU:HD22	13:7:522:CYS:CB	2.43	0.49
13:7:705:ALA:O	13:7:707:MET:HE3	2.13	0.49
1:A:108:ASP:HA	1:A:198:ARG:HD3	1.95	0.49
1:A:162:PHE:C	1:A:163:ILE:HD12	2.38	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
2:B:176:LEU:C	2:B:176:LEU:HD23	2.36	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
8:2:483: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
8:2:603:VAL:CG1	8:2:645:SER:HB2	2.39	0.49
9:3:95:ARG:HB2	9:3:154:LYS:CB	2.37	0.49
9:3:299:LYS:HG3	9:3:322:LEU:CD1	2.42	0.49
9:3:314:LEU:CD2	11:5:201:THR:HG23	2.39	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
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
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
12:6:516:LEU:HD22	12:6:754:TYR:HD1	1.78	0.49
12:6:523:GLU:OE1	12:6:524:HIS:ND1	2.38	0.49
12:6:756:LYS:O	12:6:760:THR:HG23	2.12	0.49
13:7:458:LEU:HB3	13:7:600:MET:CE	2.42	0.49
13:7:479:ARG:HG3	13:7:479:ARG:O	2.12	0.49
13:7:648:LYS:CE	13:7:704:LEU:HB3	2.38	0.49
13:7:650:PRO:HA	13:7:706:ASP:CA	2.43	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
8:2:207: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
9:3:404:ASN:ND2	9:3:490:MET:HE3	2.17	0.49
9:3:680:VAL:CG2	13:7:617:THR:HG21	2.43	0.49
11:5:31:PHE:O	11:5:35:ILE:HG13	2.12	0.49
11:5:302:ASN:CB	11:5:324:ARG:NH1	2.75	0.49
11:5:367:TYR:CD1	11:5:663:LEU:HG	2.48	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
12:6:276:ILE:HD13	12:6:375:ARG:CG	2.43	0.49
12:6:293:THR:CG2	12:6:392:GLY:HA2	2.43	0.49
12:6:355:ASP:HB3	12:6:356:TRP:CB	2.42	0.49
12:6:560:VAL:CB	12:6:561:GLU:CA	2.84	0.49
2:B:184:PHE:HB3	2:B:185:ILE:HD12	1.95	0.49
5:E:25:CYS:H	5:E:26:GLN:CA	2.26	0.49
5:E:47:LEU:O	5:E:47:LEU:HD23	2.11	0.49
5:E:76:ASP:H	5:E:78:ILE:CD1	2.25	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
8:2:591:LEU:HD23	8:2:591:LEU:C	2.38	0.49
8:2:795:ARG:HG3	8:2:796:GLU:N	2.27	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
9:3:262:PRO:O	11:5:514:ASN:ND2	2.45	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
11:5:64:ASN:HB3	11:5:67:HIS:HB3	1.94	0.49
11:5:137:LEU:HD12	11:5:137:LEU:O	2.13	0.49
11:5:155:HIS:C	11:5:298:TYR:HB3	2.38	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:418:SER:HB2	12:6:420:THR:HG23	1.95	0.49
13:7:25:LEU:CD1	13:7:120:ALA:HB3	2.43	0.49
13:7:116:LEU:HA	13:7:119:ARG:HG2	1.95	0.49
13:7:397:VAL:HG22	13:7:400:ARG:NH2	2.27	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
1:A:24:ASN:OD1	1:A:25:GLN:N	2.42	0.49
1:A:139:THR:CG2	1:A:142:LYS:HZ3	2.24	0.49
1:A:162:PHE:HD1	1:A:192:ARG:CA	2.26	0.49
1:A:188:GLN:HG3	5:E:58:ILE:CD1	2.43	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
8:2:617: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
10:4:326:ILE:HG22	10:4:328:LEU:CG	2.41	0.49
10:4:338:VAL:HG11	10:4:393:ASP:CG	2.38	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
10:4:527:ALA:HB3	10:4:537:LYS:HZ2	1.78	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:15:ARG:HH22	11:5:670:PRO:HD3	1.76	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
2:B:66:MET:HE2	2:B:66:MET:N	2.28	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:177:TYR:CE2	3:C:181:HIS:HB2	2.48	0.49
4:D:133:LEU:HD23	4:D:133:LEU:C	2.38	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:641:LEU:O	5:E:645:THR:N	2.32	0.49
5:E:641:LEU:O	5:E:645:THR:HG23	2.12	0.49
8:2:266:GLU:H	8:2:266:GLU:CD	2.20	0.49
8:2:296:ARG:HB3	8:2:455:SER:OG	2.13	0.49
8:2:302:THR:OG1	8:2:303:ILE:N	2.40	0.49
8:2:302:THR:OG1	8:2:319:ARG:HB3	2.13	0.49
8:2:506:TYR:CD2	8:2:695:LEU:HD12	2.47	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
8:2:816: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
10:4:241:LEU:HD23	10:4:243:LEU:N	2.22	0.49
10:4:347:PHE:N	10:4:357:ALA:HB2	2.26	0.49
10:4:355:THR:HG23	10:4:356:MET:CE	2.43	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
11:5:172:LEU:HD23	11:5:254:GLN:HA	1.94	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
12:6:112:ARG:NH2	12:6:180:PHE:HA	2.27	0.49
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
13:7:77:SER:HB3	13:7:338:THR:HB	1.95	0.49
13:7:470:LEU:HB3	13:7:522:CYS:CB	2.42	0.49
1:A:100:MET:SD	1:A:117:GLN:HG2	2.52	0.48
1:A:102:TRP:HB3	4:D:145:ARG:NH2	2.25	0.48
1:A:141:LEU:HD11	4:D:182:TYR:HB2	1.95	0.48
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:82:THR:HA	3:C:85:MET:SD	2.52	0.48
3:C:184:TYR:HA	3:C:187:THR:HB	1.95	0.48
5:E:264:GLU:OE1	5:E:264:GLU:N	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
8:2:653: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
9:3:25:VAL:HG13	9:3:128:ALA:HB2	1.95	0.48
9:3:122:ILE:N	9:3:123:PRO:HD2	2.28	0.48
9:3:685:ASP:HA	9:3:688:ASN:HB2	1.95	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
12:6:182:GLN:H	12:6:182:GLN:CD	2.19	0.48
12:6:569:ILE:CD1	12:6:805:ARG:HD2	2.43	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
13:7:81:ASP:HB3	13:7:205:LYS:CG	2.42	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:HG3	13:7:624:LYS:O	2.13	0.48
1:A:37:ILE:O	1:A:41:LEU:N	2.37	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
2:B:175:LEU:CA	2:B:178:ILE:HD12	2.43	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:580:LEU:HD23	5:E:580:LEU:C	2.38	0.48
5:E:608:ALA:HA	5:E:611:GLN:CG	2.43	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
9:3:32:LEU:CD1	9:3:38:TYR:HB2	2.40	0.48
9:3:38:TYR:CE2	9:3:98:ILE:HG12	2.47	0.48
9:3:407:MET:O	9:3:515:ALA:HA	2.13	0.48
9:3:416:SER:HB3	11:5:499:GLN:HE21	1.77	0.48
9:3:732:LEU:O	9:3:736:ALA:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
11:5:56: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
11:5:454:GLN:CB	11:5:465:GLU:HB2	2.43	0.48
11:5:543:GLN:HG3	11:5:546:ILE:HD12	1.95	0.48
12:6:304:LEU:HD12	12:6:304:LEU:N	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
13:7:257:VAL:HG12	13:7:272:GLU:HA	1.94	0.48
13:7:258:ILE:HD11	13:7:278:PHE:CE1	2.48	0.48
13:7:502:VAL:HG12	13:7:503:THR:N	2.28	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:97:GLU:HA	5:E:98:ILE:C	2.37	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
8:2:234:LEU:HD22	8:2:239:SER:OG	2.13	0.48
8:2:423:GLU:OE1	8:2:423:GLU:N	2.41	0.48
8:2:543:GLY:N	8:2:652:PRO:HD3	2.27	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
10:4:693:ASP:CG	10:4:694:LEU:N	2.71	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
12:6:531:ARG:HG3	12:6:745:PRO:CG	2.43	0.48
12:6:574:VAL:HA	12:6:581:LYS:NZ	2.24	0.48
13:7:81:ASP:HB3	13:7:205:LYS:HG3	1.95	0.48
13:7:273:VAL:HG22	13:7:278:PHE:CB	2.43	0.48
1:A:5:LEU:HD11	1:A:36:ILE:HD11	1.95	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:90:THR:HG22	9:3:111:TRP:HZ2	1.79	0.48
5:E:27:LEU:HA	5:E:80:SER:O	2.14	0.48
5:E:154:GLU:CD	5:E:240:TYR:HB2	2.38	0.48
5:E:158:ALA:HB1	5:E:237:LEU:HD22	1.95	0.48
5:E:410:VAL:HG13	5:E:419:ILE:C	2.38	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
8:2:424:VAL:HG22	8:2:425:GLU:N	2.27	0.48
8:2:631:ILE:HA	11:5:442:LYS:HB3	1.94	0.48
8:2:670:THR:O	8:2:673:ILE:HG22	2.12	0.48
9:3:212:ARG:HH21	13:7:5:LEU:HD12	1.78	0.48
9:3:404:ASN:C	9:3:405:ILE:HD12	2.38	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
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
12:6:800:LEU:O	12:6:804:ILE:HG13	2.12	0.48
1:A:112:SER:OG	1:A:114:THR:OG1	2.27	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
3:C:120:LEU:C	3:C:120:LEU:HD12	2.39	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:290:ARG:C	5:E:293:PRO:HD2	2.38	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
8:2:512:LYS:O	8:2:515:VAL:HB	2.14	0.48
8:2:676:ARG:NH2	11:5:418:PRO:HB3	2.28	0.48
9:3:30:GLU:H	9:3:30:GLU:CD	2.21	0.48
9:3:191:LEU:HB3	9:3:456:ARG:NE	2.28	0.48
9:3:195:LYS:HG3	13:7:371:LEU:H	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
11:5:294:ILE:HG13	11:5:333:ILE:HG13	1.95	0.48
12:6:272:THR:O	12:6:289:SER:HB3	2.13	0.48
12:6:531:ARG:CG	12:6:745:PRO:HG3	2.43	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
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
13:7:255:VAL:HB	13:7:307:PHE:CD1	2.48	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
1:A:168:LEU:HD11	1:A:206:GLN:HG2	1.96	0.48
1:A:191:VAL:HG12	1:A:192:ARG:N	2.28	0.48
2:B:157:LEU:HD23	2:B:157:LEU:O	2.13	0.48
3:C:15:GLU:HB3	3:C:45:SER:CB	2.44	0.48
3:C:131:ARG:NH1	3:C:173:GLU:OE2	2.46	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
8:2:404:ARG:NH1	12:6:299:GLU:HA	2.29	0.48
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
9:3:179:LEU:HD23	9:3:179:LEU:C	2.38	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
10:4:340:PRO:HD3	12:6:452:ILE:HD11	1.94	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
10:4:631:ILE:HG23	10:4:637:MET:HE3	1.95	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
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
12:6:767:LYS:HE3	12:6:769:ALA:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:B:118:ASN:OD1	2:B:122:LEU:HD11	2.14	0.48
2:B:148:LEU:HD23	2:B:148:LEU:O	2.13	0.48
2:B:151:ILE:HA	2:B:154:ILE:HG12	1.94	0.48
2:B:152:ARG:O	2:B:156:VAL:HG23	2.14	0.48
3:C:33:ASN:HB3	3:C:34:PRO:HD3	1.96	0.48
3:C:82:THR:HA	3:C:85:MET:CE	2.41	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
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
6:F:4:DG:H1'	7:G:16:DG:H22	1.79	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
9:3:403:ILE:HA	9:3:544:ASP:OD2	2.14	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
9:3:667: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
11:5:320:GLY:HA2	11:5:321:VAL:C	2.37	0.48
11:5:444:SER:O	11:5:447:ALA:HB3	2.14	0.48
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:N	12:6:723:ILE:HD12	2.28	0.48
13:7:402:MET:CA	13:7:405:ILE:HB	2.27	0.48
13:7:557:LEU:C	13:7:557:LEU:HD12	2.39	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
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
6:F:3:DC:H2'	6:F:4:DG:C8	2.48	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:225:ILE:H	9:3:225:ILE:CD1	2.23	0.48
9:3:690:ASP:O	9:3:694:LYS:N	2.37	0.48
10:4:315:ARG:HG2	10:4:410:GLN:CD	2.38	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
10:4:798:LEU:HA	10:4:801:MET:HE3	1.96	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
13:7:135:LYS:HA	13:7:136:ASP:C	2.39	0.48
1:A:149:ILE:HG23	1:A:151:LEU:CB	2.44	0.48
2:B:17:GLN:HA	2:B:20:VAL:CG1	2.41	0.48
2:B:121:VAL:HG12	2:B:125:ILE:CD1	2.44	0.48
5:E:66:GLU:OE1	5:E:69:ARG:HD3	2.14	0.48
5:E:311:LYS:NZ	11:5:71:TYR:O	2.31	0.48
5:E:345:ASN:CA	5:E:350:LEU:HG	2.31	0.48
8:2:443:GLY:HA2	8:2:444:PHE:HA	1.70	0.48
8:2:481:GLU:C	8:2:484:PHE:HB3	2.38	0.48
8:2:609:PHE:HE2	8:2:677:PHE:CZ	2.30	0.48
8:2:614:ASP:O	8:2:618:THR:HG23	2.13	0.48
8:2:759:PRO:HG2	8:2:762:LEU:CD1	2.44	0.48
9:3:104:ARG:HG3	9:3:111:TRP:CZ3	2.49	0.48
9:3:270:LEU:CD2	11:5:464:LEU:HD22	2.40	0.48
9:3:374:HIS:HB2	9:3:378:LYS:HZ2	1.78	0.48
9:3:379:LYS:HD2	9:3:732:LEU:HD21	1.96	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
10:4:243:LEU:CD1	10:4:303:VAL:HG11	2.44	0.48
10:4:246:ARG:HG3	10:4:246:ARG:O	2.14	0.48
10:4:261:LEU:C	10:4:261:LEU:HD23	2.39	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
11:5:86:ILE:HA	11:5:89:LEU:CG	2.39	0.48
11:5:544:THR:CB	11:5:547:LEU:HD12	2.43	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:543:GLN:HE21	13:7:560:ARG:HA	1.79	0.48
1:A:83:LYS:HA	1:A:86:LEU:HD12	1.95	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
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:298:GLU:CD	5:E:301:ARG:HD3	2.39	0.48
5:E:492:LEU:HG	5:E:496:ILE:CD1	2.43	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
9:3:486: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
10:4:563:ASN:CG	10:4:671:ILE:HB	2.38	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
12:6:118:PHE:CE1	12:6:161:ARG:HB3	2.35	0.48
12:6:126:SER:HB3	12:6:131:GLU:HG2	1.96	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
3:C:95:LEU:HD23	3:C:95:LEU:C	2.38	0.47
3:C:193:LYS:HD3	5:E:487:ARG:NH1	2.29	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
5:E:298:GLU:OE1	5:E:301:ARG:HD3	2.15	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
8:2:580: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
9:3:388:GLY:N	9:3:714:LYS:HZ2	2.12	0.47
9:3:420:ARG:NH1	11:5:499:GLN:HB3	2.26	0.47
10:4:399:LEU:C	10:4:399:LEU:HD23	2.39	0.47
10:4:501:ILE:HD11	10:4:749:MET:HB2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:618:SER:CB	10:4:622:VAL:HG11	2.44	0.47
11:5:33:ASN:HB3	11:5:37:GLU:HG3	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:HD12	11:5:331:LEU:O	2.14	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
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
13:7:88:TYR:O	13:7:92:LYS:N	2.46	0.47
13:7:153:MET:HE2	13:7:267:TYR:HA	1.96	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
1:A:84:ARG:CZ	3:C:3:TYR:HA	2.44	0.47
1:A:129:GLU:HA	1:A:132:LYS:CE	2.27	0.47
2:B:78:LEU:HD23	2:B:78:LEU:C	2.39	0.47
2:B:120:LEU:CD1	2:B:176:LEU:HB3	2.38	0.47
2:B:163:LEU:HB3	2:B:189:MET:HE2	1.95	0.47
3:C:77:PRO:HB2	3:C:79:MET:HG2	1.96	0.47
3:C:82:THR:CA	3:C:85:MET:HE3	2.42	0.47
5:E:92:LEU:HD23	5:E:96:LEU:CD1	2.44	0.47
5:E:230:ILE:HG22	5:E:234:GLU:CD	2.39	0.47
5:E:274:ILE:O	5:E:278:THR:OG1	2.28	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
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
8:2:621:HIS:HA	8:2:624:MET:HE3	1.96	0.47
10:4:188:GLN:C	10:4:190:CYS:N	2.71	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
10:4:566:LEU:C	10:4:566:LEU:HD12	2.39	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:59:TYR:O	11:5:136:GLN:N	2.40	0.47
11:5:302:ASN:OD1	11:5:324:ARG:CD	2.59	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
13:7:82:LEU:C	13:7:207:LEU:HD23	2.38	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:OE1	4:D:268:GLU:N	2.48	0.47
5:E:127:ARG:N	5:E:246:THR:O	2.37	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
9:3:235:ASP:HB2	13:7:5:LEU:CD1	2.45	0.47
9:3:262:PRO:HA	9:3:265:ALA:CB	2.44	0.47
9:3:384:MET:HE1	9:3:513:ILE:CD1	2.45	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
10:4:603:ALA:HB3	10:4:658:LYS:NZ	2.28	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
10:4:802: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
12:6:379:VAL:HG23	12:6:454:PHE:O	2.14	0.47
12:6:452:ILE:HD12	12:6:452:ILE:H	1.79	0.47
12:6:608:LEU:HG	12:6:628:LEU:H	1.79	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
13:7:13:ASP:O	13:7:17:LEU:HD13	2.13	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
13:7:357:PRO:HB3	13:7:374:THR:HB	1.96	0.47
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:103:MET:HE2	4:D:103:MET:CA	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:157:TYR:HB2	4:D:219:ILE:O	2.14	0.47
5:E:43:LYS:HB2	5:E:484:LEU:CD2	2.42	0.47
5:E:140:ILE:HD12	5:E:140:ILE:C	2.39	0.47
5:E:336:ASP:HA	5:E:339:TYR:CB	2.44	0.47
5:E:549:GLY:O	5:E:553:ILE:N	2.36	0.47
8:2:334:LEU:HD21	11:5:322:ALA:HB3	1.95	0.47
8:2:591:LEU:HD13	11:5:270:MET:HE1	1.95	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
10:4:501:ILE:HG21	10:4:749:MET:CE	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
11:5:275:THR:O	11:5:276:MET:HE2	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
1:A:29:LEU:HD23	1:A:93:ARG:CD	2.45	0.47
2:B:77:LEU:HD23	2:B:77:LEU:C	2.38	0.47
2:B:155:LYS:C	2:B:158:LYS:HG2	2.40	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: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
6:F:24:DT:H5"	12:6:665:LYS:HB3	1.95	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
11:5:624: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
12:6:397: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
12:6:695:LEU:CD1	12:6:838:VAL:HG22	2.33	0.47
12:6:736:MET:HB3	12:6:738:ARG:O	2.13	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
13:7:527:ASP:CG	13:7:585:ASN:HB2	2.40	0.47
1:A:25:GLN:O	1:A:25:GLN:HG2	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
5:E:150:ASP:HB3	5:E:152:LEU:CB	2.44	0.47
5:E:278:THR:HA	5:E:281:ASP:CG	2.39	0.47
5:E:387:GLU:O	5:E:391:ILE:HG13	2.14	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
9:3:42:VAL:HG22	9:3:96:ILE:HD13	1.95	0.47
9:3:183:GLU:CB	9:3:293:ASN:HA	2.44	0.47
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
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
11:5:400:LEU:HD12	11:5:400:LEU:C	2.39	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
12:6:651:ALA:HA	12:6:654:GLU:CD	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:76:ASN:O	13:7:200:TYR:HB2	2.14	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
13:7:355:PHE:CD1	13:7:376:LEU:HB2	2.49	0.47
1:A:145:ASP:HA	1:A:146:LEU:C	2.40	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
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
2:B:169:GLN:HA	4:D:275:TYR:CD1	2.50	0.47
2:B:197:THR:HG22	4:D:263:LEU:HD22	1.95	0.47
2:B:200:LEU:O	2:B:200:LEU:HD23	2.14	0.47
3:C:95:LEU:HD23	3:C:96:ASP:N	2.29	0.47
3:C:109:ILE:C	3:C:112:ILE:HG22	2.40	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
4:D:271:ILE:C	4:D:271:ILE:HD12	2.39	0.47
5:E:60:PRO:HD3	5:E:478:TRP:CZ2	2.42	0.47
5:E:154:GLU:OE1	5:E:240:TYR:HB2	2.14	0.47
5:E:252:SER:HA	5:E:255:ILE:HD12	1.97	0.47
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:553:ILE:HD11	5:E:586:PRO:HA	1.96	0.47
5:E:572:ILE:HG12	5:E:577:ASP: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
8:2:326:ARG:O	8:2:389:THR:OG1	2.23	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
8:2:523:VAL:N	8:2:818:GLU:OE1	2.48	0.47
8:2:525:LYS:NZ	11:5:577:THR:H	1.91	0.47
8:2:540:LEU:HD12	8:2:541:LEU:H	1.80	0.47
8:2:546:GLY:HA2	12:6:798:ARG:CZ	2.44	0.47
8:2:574:VAL:CA	12:6:664:ALA:HB3	2.43	0.47
8:2:660:THR:O	8:2:850:LYS:HG3	2.15	0.47
8:2:680:LEU:HD12	8:2:680:LEU:N	2.29	0.47
8:2:758:ILE:HD12	8:2:758:ILE:H	1.80	0.47
9:3:98:ILE:HD12	9:3:155:LEU:CD1	2.36	0.47
9:3:218:THR:HG21	9:3:277:ILE:HD11	1.95	0.47
9:3:253:HIS:HA	9:3:279:ASP:OD1	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:185:VAL:HG21	10:4:260:GLN:HB3	1.95	0.47
10:4:203:TYR:HD1	10:4:206:ARG:HB2	1.79	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
10:4:436:THR:N	10:4:465:HIS:O	2.42	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
10:4:804:LEU:HD23	10:4:804:LEU:C	2.40	0.47
11:5:63:VAL:HG13	11:5:68:LEU:HD21	1.95	0.47
11:5:148:LEU:CD1	11:5:274:LEU:HD12	2.36	0.47
11:5:181:ILE:HA	11:5:242:ILE:O	2.15	0.47
11:5:253:GLN:HG3	11:5:278:CYS:O	2.14	0.47
11:5:356:GLU:O	11:5:360:LEU:HG	2.15	0.47
12:6:116:GLU:O	12:6:119:LEU:HG	2.15	0.47
12:6:603:SER:HB2	12:6:604:SER:O	2.15	0.47
12:6:638:ILE:N	12:6:638:ILE:HD12	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
12:6:830:LEU:HD23	12:6:830:LEU:C	2.39	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
13:7:404:LEU:HD13	13:7:414:LEU:HD21	1.95	0.47
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:11:PHE:CE1	4:D:71:ARG:HB2	2.50	0.47
4:D:232:VAL:O	4:D:271:ILE:HA	2.14	0.47
5:E:97:GLU:CA	5:E:98:ILE:HB	2.45	0.47
5:E:162:LEU:O	5:E:162:LEU:HD13	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:577:ASP:HB3	5:E:634:ARG:H	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
6:F:18:DT:H2"	6:F:19:DT:C7	2.44	0.47
6:F:24:DT:H2"	6:F:25:DT:H71	1.96	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
8:2:446:VAL:HG13	12:6:302:PRO:O	2.15	0.47
8:2:541:LEU:HB3	8:2:649:ALA:CA	2.45	0.47
8:2:568:GLY:O	8:2:612:MET:HG2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:584:PRO:CB	11:5:457:PRO:HB3	2.45	0.47
8:2:611:LYS:CG	12:6:650:VAL:HG22	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
9:3:292:VAL:HG13	9:3:327:TYR:C	2.39	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
10:4:518:LEU:HD23	10:4:518:LEU:C	2.39	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
11:5:86:ILE:HG22	11:5:86:ILE:O	2.15	0.47
11:5:294:ILE:HD12	11:5:294:ILE:N	2.29	0.47
11:5:525:PRO:CA	11:5:539:ASN:HD21	2.27	0.47
12:6:309:PHE:HA	12:6:345:THR:O	2.15	0.47
12:6:401:GLU:C	12:6:402:ILE:HG12	2.40	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
1:A:9:LEU:HD23	1:A:9:LEU:C	2.40	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
8:2:235: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
9:3:194:PRO:HG2	13:7:373:GLU:N	2.30	0.47
9:3:384:MET:SD	9:3:513:ILE:HD11	2.55	0.47
9:3:390:GLU:HG2	9:3:509:ARG:HH22	1.79	0.47
9:3:477:LYS:HG3	11:5:491:VAL:HG13	1.96	0.47
9:3:488:GLU:OE2	9:3:492:GLN:HG2	2.15	0.47
10:4:505:ASP:HB2	10:4:746:PHE:CE1	2.46	0.47
10:4:615:VAL:HG11	12:6:373:MET:HE2	1.96	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
11:5:467:GLY:C	11:5:471:LEU:HG	2.40	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
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:20:TYR:CE1	1:A:25:GLN:HG3	2.50	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
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
4:D:188:LEU:HD23	4:D:188:LEU:C	2.39	0.47
4:D:252:GLY:HA2	4:D:253:LYS:C	2.40	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
8:2:242:LEU:CD2	8:2:244:VAL:HG23	2.45	0.47
8:2:541:LEU:HB3	8:2:649:ALA:HB2	1.97	0.47
8:2:632:SER:HB2	11:5:442:LYS:O	2.15	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
9:3:234:GLU:CD	9:3:240:LYS:HA	2.40	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
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
11:5:148:LEU:CB	11:5:260:GLU:HB3	2.42	0.47
11:5:243:ILE:HG21	11:5:245:HIS:CE1	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:337:VAL:HA	11:5:338:GLU:C	2.39	0.47
11:5:375:ALA:CB	11:5:385:LYS:HE3	2.45	0.47
11:5:399:ILE:O	11:5:399:ILE:HG22	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
12:6:543:VAL:CG2	12:6:715:ILE:HD11	2.44	0.47
12:6:585:LEU:HD13	12:6:597:TYR:CE1	2.50	0.47
12:6:616:GLU:CB	12:6:617:GLU:C	2.88	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
13:7:366:LEU:C	13:7:368:ALA:HB3	2.40	0.47
13:7:464:VAL:HG12	13:7:464:VAL:O	2.14	0.47
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
2:B:12:SER:H	2:B:15:GLU:CD	2.23	0.46
3:C:80:PHE:HE2	3:C:111:TRP:CG	2.33	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
3:C:138:HIS:HB3	3:C:177:TYR:HE1	1.80	0.46
4:D:69:ASN:OD1	4:D:293:LEU:HD13	2.14	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:262:ASP:OD1	4:D:263:LEU:N	2.48	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
8:2:319: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
8:2:629:ILE:N	8:2:640:LEU:O	2.48	0.46
8:2:777:LYS:CB	11:5:577:THR:HG21	2.45	0.46
9:3:164:HIS:HE2	9:3:178:LYS:HB3	1.79	0.46
9:3:195:LYS:NZ	13:7:371:LEU:HB2	2.30	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
11:5:625: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:115:PHE:CA	12:6:118:PHE:HB3	2.40	0.46
12:6:551:MET:C	12:6:552:LEU:HD12	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
13:7:426:LEU:HD23	13:7:426:LEU:C	2.40	0.46
13:7:619:VAL:HG22	13:7:622:HIS:O	2.15	0.46
2:B:175:LEU:O	2:B:179:ASN:N	2.48	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:34:LEU:HD12	5:E:543:LEU:HD21	1.97	0.46
5:E:98:ILE:O	5:E:98:ILE:HG22	2.16	0.46
5:E:165:LEU:C	5:E:165:LEU:HD12	2.39	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:565:LEU:N	5:E:586:PRO:HB3	2.30	0.46
8:2:410:LEU:O	8:2:411:LEU:HD12	2.15	0.46
8:2:485:ARG:O	8:2:488:SER:OG	2.24	0.46
8:2:636:ILE:O	11:5:447:ALA:HA	2.14	0.46
8:2:778:LEU:C	8:2:778:LEU:HD12	2.40	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
9:3:189:THR:HA	9:3:256:ILE:CG2	2.44	0.46
9:3:194:PRO:HG2	13:7:373:GLU:H	1.81	0.46
9:3:211:TYR:CE1	13:7:8:ILE:HD12	2.50	0.46
9:3:245:TYR:CE1	13:7:357:PRO:HG2	2.50	0.46
9:3:260:GLU:CD	9:3:272:ARG:H	2.24	0.46
9:3:371:ILE:CD1	11:5:404:MET:HE1	2.33	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
9:3:680:VAL:HG21	13:7:617:THR:HG21	1.97	0.46
9:3:712:HIS:ND1	9:3:725:ASP:OD1	2.48	0.46
10:4:665:LEU:O	10:4:665:LEU:HD12	2.15	0.46
10:4:714:GLU:CD	13:7:665:ILE:HG21	2.39	0.46
11:5:32:LYS:CA	11:5:35:ILE:HD12	2.39	0.46
11:5:50:LEU:HD23	11:5:54:ILE:HD11	1.97	0.46
11:5:91:GLU:HB3	11:5:134:THR:CG2	2.45	0.46
11:5:487:ASP:HA	11:5:490:ARG:CB	2.40	0.46
12:6:379:VAL:CG2	12:6:456:ALA:HB2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:93:PHE:HD2	13:7:94:LEU:HD23	1.80	0.46
13:7:142:ILE:CG2	13:7:146:ARG:HE	2.28	0.46
13:7:415:ALA:HA	13:7:418:ILE:HD12	1.96	0.46
13:7:535:THR:O	13:7:538:HIS:HB3	2.15	0.46
13:7:697:GLN:O	13:7:701:LYS:HG3	2.15	0.46
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:O	4:D:161:LEU:HD23	2.14	0.46
5:E:5:ILE:HG23	5:E:142:CYS:SG	2.55	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
7:G:11:DC:H2"	7:G:12:DG:C8	2.51	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
8:2:826:SER:O	8:2:827:GLU:HB3	2.15	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
9:3:656:LEU:HD23	9:3:656:LEU:C	2.40	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
10:4:565:LEU:C	10:4:565:LEU:HD23	2.40	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
12:6:334:PRO:HA	12:6:335:ASN:C	2.40	0.46
12:6:533:ILE:CD1	12:6:548:LEU:HD11	2.44	0.46
12:6:796:THR:CG2	12:6:798:ARG:HB3	2.45	0.46
13:7:62:LYS:HE3	13:7:66:MET:SD	2.56	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:595:ASP:OD1	13:7:596:ILE:N	2.48	0.46
13:7:658:ASP:O	13:7:662:GLN:HG3	2.15	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
5:E:148:VAL:HG13	5:E:150:ASP:CG	2.40	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
9:3:388:GLY:C	9:3:710:THR:HG21	2.41	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
10:4:909: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
11:5:160:VAL:C	11:5:295:VAL:HG13	2.40	0.46
11:5:353:GLU:O	11:5:356:GLU:HG2	2.15	0.46
11:5:353:GLU:HA	11:5:356:GLU:OE2	2.16	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
12:6:568:ASP:O	12:6:569:ILE:HB	2.14	0.46
12:6:663:ILE:HG22	12:6:664:ALA:N	2.29	0.46
12:6:713:PHE:HB3	12:6:837:ARG:NH1	2.30	0.46
12:6:781:ARG:HG2	12:6:795:ILE:CB	2.45	0.46
13:7:68:GLN:HA	13:7:71:ALA:HB3	1.96	0.46
13:7:426:LEU:O	13:7:426:LEU:HD23	2.16	0.46
1:A:22:ARG:HH22	11:5:355:GLU:CD	2.24	0.46
1:A:106:GLY:H	1:A:107:LEU:HB2	1.80	0.46
2:B:11:PHE:C	2:B:179:ASN:HD21	2.22	0.46
3:C:135:LEU:HD23	3:C:138:HIS:CD2	2.50	0.46
5:E:92:LEU:HG	5:E:95:PHE:CD2	2.49	0.46
5:E:158:ALA:CB	5:E:237:LEU:HD13	2.45	0.46
5:E:240:TYR:C	5:E:242:SER:H	2.23	0.46
5:E:527:LEU:HD23	5:E:527:LEU:C	2.41	0.46
8:2:277:GLU:HA	8:2:280:GLU:CB	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:314:LEU:HD12	8:2:314:LEU:C	2.40	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
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
9:3:340:GLN:HE22	9:3:658:LYS:HD3	1.80	0.46
9:3:441:GLY:CA	9:3:462:MET:H	2.29	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
10:4:509:ILE:CD1	10:4:749:MET:HE2	2.43	0.46
10:4:572:THR:O	10:4:572:THR:HG22	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
10:4:699:LEU:C	10:4:699:LEU:HD23	2.40	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
13:7:458:LEU:HB3	13:7:600:MET:HE3	1.97	0.46
13:7:491:VAL:CA	13:7:494:THR:HG22	2.45	0.46
1:A:46:ASN:O	1:A:49:LYS:HB3	2.15	0.46
1:A:161:VAL:O	1:A:193:GLN:N	2.49	0.46
3:C:33:ASN:N	3:C:34:PRO:HD2	2.31	0.46
3:C:125:SER:O	3:C:128:LEU:HB3	2.16	0.46
4:D:60:PHE:O	4:D:63:LEU:HB3	2.16	0.46
4:D:124:LEU:HB2	4:D:125:PRO:HD3	1.98	0.46
5:E:348:LEU:HB2	5:E:350:LEU:HD23	1.97	0.46
5:E:569:LEU:HG	5:E:584:LEU:HD11	1.97	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
10:4:354:HIS:NE2	10:4:356:MET:HE3	2.30	0.46
10:4:540:ILE:HD11	10:4:577:ILE:HG21	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:566:LEU:CD1	10:4:574:LYS:HD3	2.46	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
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
12:6:603:SER:HB2	12:6:604:SER:C	2.40	0.46
13:7:251:VAL:CG2	13:7:340:VAL:HG21	2.35	0.46
13:7:335:VAL:HG13	13:7:339:LEU:CD2	2.45	0.46
13:7:367:LYS:HA	13:7:368:ALA:C	2.39	0.46
13:7:410:VAL:O	13:7:414:LEU:HB2	2.15	0.46
1:A:43:GLU:O	1:A:47:LEU:N	2.43	0.46
1:A:114:THR:O	1:A:115:PHE:HB2	2.15	0.46
1:A:137:LEU:HD23	1:A:137:LEU:C	2.41	0.46
3:C:19:LYS:CE	3:C:73:GLU:HG2	2.45	0.46
3:C:174:LYS:HG2	3:C:178:LYS:NZ	2.30	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:22:HIS:HA	5:E:23:SER:C	2.41	0.46
5:E:30:PHE:HD1	5:E:61:ILE:HD11	1.80	0.46
5:E:47:LEU:HD23	5:E:47:LEU:C	2.41	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
8:2:333:GLN:HB3	8:2:383:ARG:CG	2.45	0.46
8:2:343:LYS:H	8:2:371:GLY:HA2	1.79	0.46
8:2:387:ARG:HD2	8:2:407:GLU:OE2	2.15	0.46
8:2:780:GLN:OE1	11:5:573:ILE:HG22	2.16	0.46
9:3:38:TYR:HH	9:3:99:SER:H	1.58	0.46
9:3:363:LEU:O	9:3:367:LEU:HG	2.16	0.46
9:3:409:GLY:HA2	9:3:524:ASP:OD2	2.16	0.46
9:3:493:GLN:CG	9:3:509:ARG:HA	2.44	0.46
10:4:456:LEU:HD23	10:4:456:LEU:C	2.41	0.46
11:5:35:ILE:O	11:5:36:LEU:HD23	2.16	0.46
11:5:577:THR:HA	11:5:579:ASN:H	1.81	0.46
12:6:287:LEU:HD23	12:6:287:LEU:C	2.40	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
1:A:52:GLU:HA	1:A:55:LYS:CB	2.42	0.46
1:A:100:MET:HG2	1:A:117:GLN:HE21	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:80:LYS:C	2:B:83:SER:H	2.23	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
8:2:526:ASN:OD1	8:2:527:VAL:N	2.49	0.46
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
11:5:59:TYR:HD1	11:5:135:PHE:CE1	2.33	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
12:6:134:LYS:NZ	12:6:137:ARG:HD2	2.31	0.46
12:6:143:MET:CE	12:6:150:THR:HG22	2.46	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
12:6:637:CYS:C	12:6:638:ILE:HD12	2.41	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:5:LEU:CG	1:A:36:ILE:HD11	2.46	0.46
1:A:29:LEU:HD22	1:A:97:LEU:HD21	1.98	0.46
1:A:184:ILE:CD1	5:E:73:GLN:HE22	2.27	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
2:B:157:LEU:HD23	2:B:157:LEU:C	2.41	0.46
2:B:167:HIS:CE1	4:D:275:TYR:HB3	2.51	0.46
3:C:12:ASP:O	3:C:48:LEU:N	2.49	0.46
3:C:19:LYS:CG	3:C:73:GLU:HB3	2.45	0.46
3:C:166:LEU:C	3:C:169:LEU:HD13	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:127:LEU:O	4:D:127:LEU:HD23	2.14	0.46
4:D:199:LEU:HD22	4:D:202:MET:HE2	1.98	0.46
5:E:34:LEU:C	5:E:34:LEU:HD13	2.41	0.46
5:E:81:LEU:N	5:E:119:ASP:O	2.49	0.46
5:E:469:LEU:C	5:E:469:LEU:HD23	2.41	0.46
6:F:18:DT:H2''	6:F:19:DT:C4	2.50	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
10:4:315:ARG:NH2	13:7:251:VAL:H	2.07	0.46
10:4:416:SER:OG	10:4:460:TYR:HA	2.15	0.46
10:4:455:SER:HB2	13:7:276:ARG:C	2.41	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
11:5:38:PHE:CE2	11:5:45:ILE:HG12	2.51	0.46
11:5:98:ALA:O	11:5:102:SER:N	2.48	0.46
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
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
12:6:601:LYS:CG	12:6:643:LYS:HB3	2.45	0.46
12:6:625:ALA:CB	12:6:626:GLY:CA	2.87	0.46
13:7:112:HIS:NE2	13:7:116:LEU:HD13	2.31	0.46
13:7:354:ILE:C	13:7:354:ILE:HD12	2.41	0.46
13:7:520:ILE:HD12	13:7:520:ILE:N	2.30	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:31:ILE:HD11	2:B:63:MET:HB2	1.98	0.46
2:B:56:ASP:O	4:D:57:GLN:NE2	2.46	0.46
2:B:145:ILE:C	2:B:145:ILE:HD12	2.41	0.46
3:C:27:LEU:HD22	3:C:33:ASN:HA	1.98	0.46
3:C:137:HIS:HA	11:5:55:LEU:CD1	2.27	0.46
4:D:88:LEU:O	4:D:88:LEU:HD23	2.16	0.46
4:D:168:LEU:HD11	4:D:171:LEU:CD1	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
5:E:372:THR:O	5:E:375:GLU:HB3	2.16	0.46
5:E:621:ARG:HB3	5:E:623:ASP:CG	2.41	0.46
5:E:632:ILE:HD12	5:E:633:ARG:H	1.81	0.46
8:2:328:THR:HG22	8:2:387:ARG:O	2.15	0.46
8:2:334:LEU:HD11	11:5:323:ILE:HA	1.98	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
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
10:4:761:ILE:HD11	12:6:737:LYS:HD2	1.97	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
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
13:7:148:LEU:HD23	13:7:148:LEU:C	2.41	0.46
13:7:225:LEU:HB3	13:7:229:GLN:HB2	1.97	0.46
13:7:612:LEU:HD23	13:7:612:LEU:C	2.41	0.46
13:7:696:SER:HA	13:7:699:LEU:HB2	1.98	0.46
2:B:171:ASP:O	4:D:274:ILE:HG12	2.16	0.45
4:D:103:MET:HE2	4:D:103:MET:N	2.30	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
5:E:13:ASN:HD22	5:E:16:LEU:HD11	1.80	0.45
5:E:67:LEU:HD11	5:E:83:LEU:HD12	1.97	0.45
5:E:249:ASN:OD1	5:E:287:VAL:HB	2.16	0.45
8:2:208:ALA:O	8:2:212:LYS:HG2	2.16	0.45
8:2:607:ASP:HA	8:2:649:ALA:O	2.17	0.45
8:2:641:GLN:NE2	11:5:262:PRO:HB2	2.31	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
10:4:308:VAL:HG11	10:4:325:LEU:HD13	1.98	0.45
10:4:315:ARG:HE	10:4:410:GLN:NE2	2.14	0.45
10:4:672:LEU:HD23	10:4:672:LEU:C	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:169:THR:HG21	11:5:256:LEU:HG	1.97	0.45
11:5:643:ARG:NH1	11:5:692:ALA:HA	2.30	0.45
12:6:360:ARG:HG3	12:6:377:LEU:C	2.41	0.45
12:6:713:PHE:O	12:6:715:ILE:HD12	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
1:A:59:GLN:C	1:A:60:LEU:HD12	2.41	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
8:2:339: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
9:3:530:HIS:C	9:3:532:ASN:H	2.23	0.45
9:3:553:ILE:HB	11:5:630:ARG:HH11	1.81	0.45
10:4:187:ILE:C	10:4:188:GLN:HG3	2.40	0.45
10:4:501:ILE:HG21	10:4:749:MET:HE3	1.99	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
12:6:294: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:29:LEU:N	1:A:119:ASP:OD2	2.48	0.45
1:A:130:TYR:CE1	4:D:193:LEU:HB2	2.52	0.45
1:A:165:VAL:O	1:A:188:GLN:HA	2.17	0.45
2:B:4:PRO:HB2	2:B:8:GLN:CB	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:185:ILE:HD12	2:B:185:ILE:N	2.30	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
4:D:212:THR:H	4:D:213:GLU:HA	1.76	0.45
5:E:32:SER:HA	5:E:33:CYS:HA	1.39	0.45
5:E:66:GLU:OE2	5:E:70:HIS:NE2	2.49	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:520:LYS:N	5:E:520:LYS:HD2	2.32	0.45
5:E:548:LEU:HG	5:E:552:LEU:HD13	1.97	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
9:3:101:ASP:CG	9:3:104:ARG:HH21	2.23	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:HB	9:3:512:VAL:CG2	2.44	0.45
9:3:470:VAL:CB	9:3:512:VAL:HG13	2.47	0.45
9:3:477:LYS:CB	11:5:491:VAL:HG11	2.46	0.45
10:4:284:ILE:HG21	10:4:297:GLU:OE2	2.16	0.45
10:4:343:LYS:HB2	10:4:390:SER:CB	2.44	0.45
11:5:86:ILE:HG22	11:5:90:PHE:CZ	2.51	0.45
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
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
13:7:28:PHE:N	13:7:61:PRO:HB3	2.30	0.45
13:7:209:GLN:H	13:7:212:ALA:CB	2.29	0.45
13:7:311:GLN:C	13:7:335:VAL:H	2.24	0.45
13:7:362:GLY:CA	13:7:363:PHE:CB	2.81	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:30:PRO:O	1:A:31:MET:HB2	2.17	0.45
1:A:108:ASP:N	1:A:109:LEU:C	2.74	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:44:MET:HG3	5:E:45:LEU:N	2.31	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:527:LEU:HG	5:E:568:VAL:HG11	1.97	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:OE1	10:4:534:GLU:N	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
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
13:7:694:ARG:O	13:7:698:ALA:N	2.49	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:36:ILE:HA	5:E:39:LEU:CD1	2.47	0.45
5:E:93:GLU:O	5:E:97:GLU:HB3	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: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
6:F:24:DT:C6	6:F:25:DT:H73	2.51	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:HD23	9:3:241:LEU:N	2.32	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:405:PRO:HA	12:6:449:THR:O	2.17	0.45
12:6:407:VAL:O	12:6:407:VAL:HG12	2.16	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
13:7:372:THR:C	13:7:374:THR:H	2.23	0.45
1:A:98:ASP:O	1:A:101:ALA:HB3	2.17	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
2:B:115:LEU:HD21	2:B:152:ARG:CZ	2.46	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
5:E:516:LYS:HB3	5:E:518:LEU:HD21	1.99	0.45
5:E:577:ASP:CG	5:E:634:ARG:HG2	2.42	0.45
5:E:637:LEU:O	5:E:640:PHE:HB3	2.16	0.45
8:2:585:ILE:CD1	11:5:457:PRO:HA	2.42	0.45
8:2:611:LYS:HG3	12:6:650:VAL:HG22	1.99	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
11:5:652:GLN:O	11:5:656:ILE:HG13	2.16	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
13:7:662:GLN:O	13:7:666:ARG:HG3	2.17	0.45
1:A:37:ILE:O	1:A:40:ILE:HB	2.17	0.45
4:D:154:PHE:CE1	4:D:221:GLU:HB2	2.40	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
5:E:71:TYR:CD2	5:E:96:LEU:HD13	2.51	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:21:DT:H3'	11:5:506:LYS:CE	2.46	0.45
8:2:317:LEU:HD23	8:2:317:LEU:C	2.42	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
10:4:563:ASN:C	10:4:564:ILE:HD12	2.41	0.45
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
11:5:92:THR:O	11:5:95:THR:HG22	2.16	0.45
11:5:94:ILE:HG22	11:5:135:PHE:CD2	2.51	0.45
11:5:382:GLU:C	11:5:385:LYS:HB3	2.41	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
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
13:7:490:GLY:C	13:7:493:LEU:HG	2.42	0.45
1:A:55:LYS:O	1:A:58:GLN:HG2	2.17	0.45
1:A:147:VAL:HB	1:A:148:ASP:C	2.41	0.45
1:A:151:LEU:CD1	1:A:151:LEU:H	2.29	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:34:LEU:HD11	5:E:543:LEU:CG	2.45	0.45
5:E:122:VAL:O	5:E:143:PHE:CB	2.65	0.45
5:E:310:VAL:HA	5:E:311:LYS:C	2.42	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
9:3:38:TYR:CE2	9:3:98:ILE:HG23	2.51	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
9:3:301:LEU:C	9:3:301:LEU:HD12	2.42	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
10:4:373:ARG:HA	10:4:374:ILE:HA	1.78	0.45
10:4:761:ILE:HG12	12:6:737:LYS:HD2	1.97	0.45
11:5:61:LEU:HD23	11:5:62:THR:N	2.32	0.45
11:5:393:MET:HE2	11:5:665:LYS:HG2	1.98	0.45
11:5:494:HIS:CE1	11:5:546:ILE:HG13	2.48	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
12:6:656:MET:HE2	12:6:709:PHE:HE1	1.80	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
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
3:C:107:LEU:HD23	3:C:107:LEU:C	2.42	0.45
4:D:85:LYS:O	4:D:89:ASN:N	2.46	0.45
4:D:248:GLU:N	4:D:250:GLU:OE1	2.49	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:318:LEU:HB3	5:E:411:ARG:HA	1.98	0.45
5:E:399:TYR:HB2	5:E:401:LEU:HG	1.98	0.45
5:E:420:SER:HB2	5:E:423:GLU:HG2	1.98	0.45
5:E:530:LEU:HD23	5:E:530:LEU:C	2.42	0.45
5:E:608:ALA:HA	5:E:611:GLN:HG2	1.99	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:83:LYS:NZ	4:D:199:LEU:HD23	2.32	0.45
1:A:100:MET:HG2	1:A:117:GLN:HG2	1.98	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: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
8:2:242:LEU:HD23	8:2:243:GLU:N	2.31	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
9:3:235:ASP:CG	13:7:5:LEU:HD22	2.41	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
10:4:330:GLY:C	10:4:432:ARG:HA	2.42	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
11:5:432:VAL:C	11:5:600:LYS:HE2	2.41	0.45
11:5:488:GLU:HG2	11:5:489:ASP:H	1.80	0.45
11:5:504:ILE:HD12	11:5:504:ILE:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
12:6:803:MET:HE2	12:6:831:LEU:HD12	1.98	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
2:B:16:ILE:HA	2:B:19:ILE:HD12	1.99	0.44
2:B:149:ARG:NH2	3:C:191:MET:HE3	2.32	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
8:2:425: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
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
10:4:292:ASP:C	10:4:293:LEU:HD12	2.42	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
11:5:165:ILE:HD12	11:5:262:PRO:CD	2.47	0.44
11:5:242:ILE:HG22	11:5:243:ILE:N	2.32	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
12:6:714:VAL:C	12:6:715:ILE:HD12	2.42	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
1:A:97:LEU:CB	1:A:131:LEU:HD12	2.44	0.44
2:B:117:TRP:H	2:B:119:TRP:HD1	1.65	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:45:LEU:HD11	5:E:49:PHE:CE1	2.52	0.44
6:F:7:DC:H2''	6:F:8:DG:O4'	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:204:SER:HA	8:2:207:ILE:CG1	2.46	0.44
8:2:300:PHE:HE2	8:2:317:LEU:O	2.00	0.44
8:2:311:GLU:CB	8:2:314:LEU:HD23	2.46	0.44
8:2:333:GLN:NE2	8:2:334:LEU:H	2.15	0.44
8:2:338:LYS:CB	8:2:380:THR:HG22	2.48	0.44
8:2:339:PHE:HA	8:2:374:ARG:O	2.17	0.44
8:2:549:LYS:HA	8:2:552:ILE:CD1	2.46	0.44
8:2:571:ALA:N	12:6:665:LYS:HE3	2.32	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
11:5:338:GLU:HB2	11:5:339:THR:C	2.41	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:N	12:6:304:LEU:CD1	2.81	0.44
12:6:613:VAL:HB	12:6:622:THR:CB	2.26	0.44
12:6:775:GLU:H	12:6:775:GLU:CD	2.26	0.44
12:6:776:LYS:HA	12:6:779:GLU:OE2	2.17	0.44
13:7:86:LEU:O	13:7:90:ASN:N	2.45	0.44
13:7:196:LEU:HD23	13:7:196:LEU:C	2.43	0.44
13:7:399:GLU:C	13:7:402:MET:H	2.25	0.44
13:7:534:ARG:O	13:7:538:HIS:N	2.45	0.44
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
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:52:LEU:HB2	4:D:125:PRO:CB	2.46	0.44
2:B:158:LYS:O	2:B:161:LYS:HG2	2.16	0.44
2:B:193:ARG:CB	4:D:227:PHE:HE2	2.30	0.44
3:C:53:ILE:HA	3:C:56:ILE:HG12	1.95	0.44
3:C:176:ILE:C	3:C:176:ILE:HD12	2.42	0.44
5:E:126:HIS:HA	5:E:247:VAL:HA	2.00	0.44
5:E:131:LEU:HD22	5:E:237:LEU:HD11	1.99	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
8:2:318: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
8:2:520:PHE:CD1	8:2:767:ILE:HG22	2.52	0.44
8:2:562:ARG:HD2	8:2:602:GLY:CA	2.47	0.44
8:2:612:MET:HE1	8:2:620:ILE:HD11	1.97	0.44
8:2:641:GLN:HB3	8:2:643:ARG:NH2	2.33	0.44
9:3:32:LEU:CD2	9:3:38:TYR:HB2	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:195:LYS:CB	13:7:371:LEU:HA	2.47	0.44
9:3:317:PHE:O	9:3:319:THR:HG23	2.17	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
9:3:685:ASP:CG	13:7:606:ARG:HH22	2.20	0.44
10:4:447:ASN:O	10:4:447:ASN:ND2	2.43	0.44
10:4:642:ARG:NH2	10:4:694:LEU:HD11	2.32	0.44
10:4:682:TYR:CA	10:4:691:ASN:HD21	2.31	0.44
10:4:872:VAL:O	10:4:876:GLN:N	2.48	0.44
11:5:38:PHE:HE2	11:5:45:ILE:HG12	1.81	0.44
11:5:155:HIS:O	11:5:158:LYS:HB2	2.17	0.44
11:5:348:MET:HE2	11:5:348:MET:CA	2.39	0.44
11:5:662:SER:OG	11:5:663:LEU:N	2.51	0.44
12:6:112:ARG:HH12	12:6:183:LYS:C	2.25	0.44
12:6:177:PHE:C	12:6:179:PRO:HD2	2.42	0.44
12:6:404:VAL:CG1	12:6:405:PRO:HD2	2.41	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
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:18:GLN:HA	1:A:21:ALA:HB3	1.99	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
1:A:162:PHE:HE1	1:A:192:ARG:HB3	1.83	0.44
2:B:119:TRP:CD1	2:B:119:TRP:H	2.35	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
3:C:183:SER:O	3:C:187:THR:OG1	2.23	0.44
4:D:124:LEU:HD12	4:D:124:LEU:N	2.33	0.44
5:E:57:GLN:CG	5:E:59:VAL:HG23	2.47	0.44
5:E:330:ARG:CZ	5:E:418:SER:HB2	2.46	0.44
6:F:9:DA:H2"	6:F:10:DT:C7	2.47	0.44
8:2:392:GLU:OE2	8:2:396:THR:OG1	2.23	0.44
8:2:555:TYR:O	8:2:559:THR:OG1	2.22	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
9:3:733:LEU:HD23	9:3:733:LEU:C	2.42	0.44
10:4:202:LYS:CA	10:4:224:LEU:HA	2.48	0.44
10:4:204:LYS:HB3	10:4:250:ALA:O	2.17	0.44
11:5:65:MET:HA	11:5:68:LEU:CG	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:181:ILE:O	11:5:190:THR:OG1	2.25	0.44
11:5:407:ARG:HD2	11:5:498:GLU:HA	1.99	0.44
11:5:464:LEU:CD2	11:5:466:GLY:HA2	2.46	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
13:7:601:LEU:HD12	13:7:601:LEU:C	2.42	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
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: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
8:2:227: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
8:2:625:GLU:OE2	11:5:423:SER:HB2	2.16	0.44
9:3:502:ILE:HD12	9:3:502:ILE:H	1.83	0.44
9:3:687:ARG:HB3	13:7:604:PRO:HB3	2.00	0.44
10:4:193:ASN:HD21	10:4:253:GLN:HB3	1.83	0.44
10:4:211:GLU:HG3	10:4:212:ARG:H	1.83	0.44
10:4:275:THR:O	10:4:279:CYS:N	2.40	0.44
10:4:314:MET:SD	10:4:415:ILE:HG12	2.57	0.44
10:4:621:LEU:C	10:4:624:SER:HB2	2.43	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
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
13:7:479:ARG:CB	13:7:519:GLY:HA3	2.47	0.44
13:7:497:VAL:HG22	13:7:508:LEU:HD11	1.99	0.44
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
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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:183:PRO:HG3	3:C:183:SER:HB3	1.99	0.44
2:B:195:ILE:HD13	3:C:125:SER:HB2	2.00	0.44
4:D:231:HIS:C	4:D:291:VAL:HG23	2.43	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:296:GLN:HA	5:E:409:PHE:CZ	2.53	0.44
5:E:369:PRO:HD3	8:2:289:ILE:HD11	2.00	0.44
5:E:527:LEU:HG	5:E:568:VAL:CG1	2.48	0.44
6:F:20:DT:H2''	6:F:21:DT:C5	2.53	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
9:3:256:ILE:HD12	9:3:256:ILE:C	2.42	0.44
9:3:272:ARG:CD	11:5:171:VAL:HG22	2.48	0.44
9:3:359:ILE:O	9:3:362:ILE:HB	2.18	0.44
10:4:646:HIS:CE1	10:4:698:LEU:HD13	2.53	0.44
11:5:87:ILE:HB	11:5:88:PRO:HD3	2.00	0.44
11:5:97:VAL:HG13	11:5:100:ARG:HD2	2.00	0.44
11:5:419:GLY:HA2	14:5:801:ATP:H5'2	1.99	0.44
11:5:612:PRO:HA	11:5:670:PRO:O	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
13:7:703:ARG:HH22	13:7:712:ASP:CG	2.25	0.44
1:A:5:LEU:HG	1:A:36:ILE:HD11	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
2:B:11:PHE:HD1	4:D:71:ARG:NH1	2.16	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
3:C:135:LEU:HA	3:C:138:HIS:CD2	2.38	0.44
4:D:70:GLU:O	4:D:73:SER:OG	2.19	0.44
4:D:76:LEU:O	4:D:77:LEU:HD23	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
8:2:314:LEU:O	8:2:315:SER:OG	2.27	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
9:3:553:ILE:CD1	11:5:630:ARG:HD2	2.47	0.44
10:4:315:ARG:NH2	13:7:250:ASP:HA	2.32	0.44
10:4:384:LEU:HD23	10:4:384:LEU:C	2.43	0.44
11:5:97:VAL:HA	11:5:100:ARG:CD	2.48	0.44
12:6:114:ALA:O	12:6:118:PHE:HB2	2.17	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
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:59:VAL:HG12	5:E:61:ILE:HD12	1.98	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:415:TYR:CE1	11:5:38:PHE:HD1	2.35	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
8:2:767: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
9:3:33:ASP:HB2	9:3:39:ARG:HH11	1.83	0.44
9:3:119:ALA:CA	9:3:221:LEU:HD22	2.48	0.44
9:3:245:TYR:CB	13:7:236:GLY:HA3	2.48	0.44
9:3:293:ASN:N	9:3:329:LEU:HD23	2.33	0.44
9:3:446:VAL:HG21	9:3:458:GLU:CB	2.46	0.44
9:3:466:ASP:HB3	13:7:324:VAL:O	2.18	0.44
10:4:512:VAL:HG13	10:4:515:ARG:NH1	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
11:5:412:VAL:HG22	11:5:552:MET:HB2	2.00	0.44
11:5:525:PRO:HB3	11:5:539:ASN:HD21	1.81	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
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
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:89:ALA:HB2	2:B:134:PHE:CD1	2.53	0.44
2:B:99:ASP:HA	2:B:102:ILE:HG12	2.00	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
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
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
8:2:621:HIS:HA	8:2:624:MET:HE2	1.99	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
10:4:641:THR:C	10:4:642:ARG:HG3	2.42	0.44
11:5:50:LEU:HD23	11:5:50:LEU:C	2.43	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
12:6:340:ASN:CB	12:6:341:ARG:C	2.90	0.44
12:6:364:ASN:OD1	12:6:394:ARG:NH1	2.51	0.44
13:7:315:ILE:HD12	13:7:315:ILE:N	2.32	0.44
13:7:415:ALA:HB1	13:7:430:LYS:HD2	2.00	0.44
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:7:LEU:N	2:B:8:GLN:CA	2.79	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
4:D:79:TYR:CD1	4:D:80:PRO:HD2	2.52	0.43
4:D:191:LEU:CA	4:D:194:VAL:HG12	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:96:LEU:C	5:E:97:GLU:HG2	2.43	0.43
5:E:320:ILE:C	5:E:320:ILE:HD12	2.43	0.43
5:E:325:TYR:CD2	5:E:404:ILE:HA	2.39	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
8:2:235: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
9:3:456:ARG:CZ	9:3:456:ARG:HB2	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
10:4:458:LYS:HA	13:7:252:LYS:HZ1	1.82	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
11:5:86:ILE:HG12	11:5:89:LEU:HD12	2.00	0.43
11:5:409:ASP:C	11:5:410:ILE:HG12	2.43	0.43
11:5:570:ASN:OD1	11:5:574:ASN:ND2	2.50	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
12:6:736:MET:HB3	12:6:738:ARG:C	2.43	0.43
12:6:738:ARG:NH1	12:6:740:GLU:HB2	2.33	0.43
13:7:21:ILE:HG22	13:7:25:LEU:HD11	1.99	0.43
13:7:227:VAL:HA	13:7:230:ILE:CD1	2.47	0.43
13:7:290:SER:C	13:7:292:ASN:H	2.26	0.43
13:7:398:GLU:O	13:7:401:VAL:HB	2.18	0.43
2:B:5:ALA:N	2:B:8:GLN:OE1	2.51	0.43
2:B:57:ASP:O	2:B:58:LYS:HB3	2.18	0.43
3:C:75:LEU:HD23	3:C:76:PRO:O	2.17	0.43
4:D:91:ILE:HD12	4:D:91:ILE:C	2.43	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:31:VAL:HB	5:E:60:PRO:CA	2.26	0.43
5:E:311:LYS:H	5:E:312:THR:HA	1.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:532:ASP:CG	8:2:781:MET:HE2	2.43	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
9:3:529: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
10:4:257:LEU:HD21	10:4:272:MET:HE2	2.00	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
10:4:665:LEU:HD12	10:4:665:LEU:C	2.43	0.43
10:4:727:LEU:HD22	13:7:444:VAL:HB	1.99	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
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:75:ILE:HG13	2:B:76:ALA:N	2.31	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
3:C:166:LEU:HD23	3:C:166:LEU:C	2.44	0.43
3:C:167:LEU:HD23	3:C:167:LEU:C	2.43	0.43
5:E:164:GLU:O	5:E:165:LEU:HG	2.18	0.43
5:E:512:ALA:O	5:E:516:LYS:NZ	2.45	0.43
5:E:528:CYS:HB2	5:E:568:VAL:O	2.18	0.43
5:E:539:TYR:HA	5:E:544:THR:CG2	2.46	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:249:LEU:HD23	8:2:249:LEU:C	2.43	0.43
8:2:258:LEU:HA	8:2:261:ALA:HB3	1.98	0.43
8:2:339:PHE:HD1	8:2:374:ARG:C	2.26	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:CG2	8:2:575:GLY:H	2.09	0.43
8:2:574:VAL:CB	12:6:664:ALA:HB3	2.48	0.43
8:2:810:LEU:O	8:2:813:ILE:HG12	2.19	0.43
14:2:901:ATP:O2G	12:6:653:HIS:CE1	2.72	0.43
9:3:114:ILE:O	9:3:118:PRO:HB3	2.18	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
10:4:581: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
11:5:369: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
12:6:569: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
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
13:7:238:LEU:HD23	13:7:238:LEU:C	2.44	0.43
13:7:548:ILE:HD12	13:7:548:ILE:N	2.33	0.43
1:A:72:TYR:O	1:A:76:LEU:HB3	2.18	0.43
1:A:164:ASP:OD1	1:A:190:PHE:HD1	2.01	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
5:E:650:LEU:HD12	5:E:650:LEU:C	2.43	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
10:4:371:CYS:SG	10:4:372:GLU:N	2.91	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:661:ILE:HD11	12:6:391:PRO:HB3	2.00	0.43
10:4:750:TYR:HA	10:4:753:TYR:HB3	2.00	0.43
11:5:51:ARG:HA	11:5:54:ILE:HG13	2.00	0.43
11:5:388:ILE:O	11:5:392:LEU:HG	2.18	0.43
11:5:536:PRO:CG	11:5:643:ARG:HD3	2.47	0.43
12:6:143:MET:HE1	12:6:150:THR:HG22	2.00	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
13:7:643:ALA:HA	13:7:646:LYS:CB	2.45	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:41:ALA:HA	5:E:44:MET:CG	2.49	0.43
5:E:81:LEU:HD13	5:E:81:LEU:C	2.43	0.43
5:E:288:TYR:HA	5:E:291:LEU:CD1	2.47	0.43
5:E:379:TYR:HE2	11:5:143:ALA:HB3	1.83	0.43
5:E:566:PRO:N	5:E:586:PRO:HD3	2.33	0.43
8:2:286:TYR:CE1	8:2:289:ILE:HB	2.54	0.43
8:2:404:ARG:NH2	12:6:299:GLU:HA	2.34	0.43
8:2:548:ALA:N	14:2:901:ATP:C8	2.87	0.43
8:2:671:GLU:N	8:2:672:PRO:CD	2.82	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
10:4:445: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
10:4:568:GLY:N	10:4:574:LYS:HZ3	2.15	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
11:5:139:LEU:O	11:5:139:LEU:HD12	2.19	0.43
11:5:148:LEU:CD2	11:5:260:GLU:HB3	2.44	0.43
11:5:169:THR:HG22	11:5:256:LEU:HA	2.00	0.43
11:5:367:TYR:HD1	11:5:666:LEU:CD1	2.30	0.43
11:5:400:LEU:HB2	11:5:401:PRO:HD2	2.01	0.43
11:5:596:ILE:O	11:5:596:ILE:HG22	2.18	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
12:6:297:THR:HG22	12:6:391:PRO:HG3	2.01	0.43
12:6:306:LYS:HZ3	12:6:321:VAL:HA	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:326:LYS:CB	12:6:327:TYR:CA	2.97	0.43
13:7:63:TYR:HD1	13:7:66:MET:CE	2.32	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
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:67:LEU:HD23	5:E:67:LEU:C	2.43	0.43
5:E:150:ASP:HB2	5:E:152:LEU:HB2	2.00	0.43
8:2:305:SER:HA	8:2:321:THR:CG2	2.47	0.43
8:2:459:ARG:CG	8:2:460:GLU:C	2.92	0.43
8:2:501:MET:HE3	8:2:516:ALA:HB2	1.98	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
8:2:834:LEU:HA	8:2:837:ALA:HB3	2.00	0.43
9:3:166:LEU:HD12	9:3:166:LEU:C	2.44	0.43
9:3:360:PHE:HZ	9:3:379:LYS:HB3	1.81	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
12:6:695:LEU:HD23	12:6:695:LEU:C	2.42	0.43
12:6:755:ILE:O	12:6:759:ARG:N	2.49	0.43
13:7:73:ARG:HG2	13:7:199:ARG:NH2	2.34	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
1:A:49:LYS:HA	1:A:52:GLU:OE2	2.19	0.43
1:A:139:THR:O	1:A:142:LYS:HB2	2.19	0.43
2:B:7:LEU:N	2:B:7:LEU:HD12	2.34	0.43
2:B:115:LEU:HD21	2:B:152:ARG:NH2	2.33	0.43
4:D:133:LEU:HD23	4:D:134:GLU:N	2.34	0.43
5:E:15:ILE:HD12	5:E:18:ASN:HB2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
8:2:388: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
10:4:331:LEU:C	10:4:331:LEU:HD12	2.44	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
10:4:359:GLU:OE1	10:4:359:GLU:N	2.39	0.43
10:4:456:LEU:CD1	13:7:254:ALA:HB2	2.38	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
11:5:32:LYS:HA	11:5:35:ILE:CD1	2.43	0.43
11:5:179:LEU:HA	11:5:248:SER:OG	2.19	0.43
11:5:401:PRO:HA	11:5:402:ASP:C	2.42	0.43
11:5:459:THR:HG22	11:5:459:THR:O	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
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: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:30:ARG:HA	2:B:66:MET:HE3	2.00	0.43
2:B:188:ILE:C	2:B:192:LEU:HD13	2.44	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:30:PHE:HB2	5:E:83:LEU:HA	2.01	0.43
5:E:285:ALA:HB3	5:E:286:GLN:O	2.19	0.43
5:E:553:ILE:HD13	5:E:585:THR:O	2.19	0.43
8:2:332:PRO:O	11:5:323:ILE:HG23	2.19	0.43
8:2:399:PRO:CB	12:6:630:LEU:CB	2.97	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:424:VAL:HG23	8:2:457:LYS:O	2.19	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
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
8:2:790:TYR:C	8:2:793:LEU:H	2.26	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:HD12	11:5:546:ILE:N	2.31	0.43
12:6:575:GLY:N	12:6:581:LYS:HZ3	2.16	0.43
12:6:625:ALA:CB	12:6:629:MET:HE2	2.48	0.43
12:6:655:ALA:N	12:6:661:ILE:HD11	2.34	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
1:A:37:ILE:HG13	1:A:38:ARG:N	2.33	0.43
1:A:157:PRO:HB3	2:B:18:PHE:CD1	2.54	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
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:342:ASN:CG	5:E:551:TRP:HA	2.43	0.43
5:E:361:LYS:O	5:E:364:ALA:HB3	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
9:3:33:ASP:CB	9:3:39:ARG:HH11	2.32	0.43
9:3:212:ARG:CB	9:3:232:PRO:HG3	2.48	0.43
9:3:245:TYR:HB2	13:7:236:GLY:HA3	2.01	0.43
9:3:389:VAL:HB	9:3:710:THR:CG2	2.45	0.43
9:3:463:VAL:HG22	9:3:506:LEU:HD11	2.00	0.43
10:4:436:THR:O	10:4:464:VAL:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:517:ASP:O	10:4:520:SER:N	2.45	0.43
10:4:720:LEU:C	10:4:720:LEU:HD23	2.43	0.43
11:5:182:MET:C	11:5:241:TYR:HA	2.44	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
12:6:561:GLU:H	12:6:561:GLU:CD	2.26	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
12:6:625:ALA:HB2	12:6:629:MET:HE2	2.01	0.43
12:6:635:ILE:HA	12:6:677:SER:O	2.18	0.43
12:6:780:LEU:HD23	12:6:780:LEU:C	2.43	0.43
12:6:803:MET:HE1	12:6:828:TYR:CA	2.38	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
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
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:7:ASP:O	3:C:11:ALA:N	2.52	0.43
3:C:47:PRO:HB3	3:C:49:TRP:NE1	2.34	0.43
4:D:80:PRO:HD3	4:D:143:TYR:OH	2.19	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
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
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
8:2:332:PRO:HG3	11:5:300:ILE:CG1	2.48	0.43
8:2:487:ILE:O	8:2:493:ILE:HG21	2.18	0.43
9:3:195:LYS:HG3	13:7:371:LEU:HA	2.01	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
10:4:532:GLU:C	10:4:533:LEU:HG	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:140:ASN:HB2	11:5:334:GLN:CD	2.43	0.43
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
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
11:5:540:ILE:HG21	11:5:546:ILE:HG21	2.01	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
12:6:656:MET:HG3	12:6:709:PHE:HE1	1.84	0.43
13:7:417:SER:O	13:7:420:PRO:HD3	2.18	0.43
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:3:TYR:HE1	4:D:218:MET:HG3	1.84	0.42
3:C:115:PHE:CD2	3:C:117:GLU:HB2	2.54	0.42
4:D:78:PRO:N	4:D:174:LEU:HD12	2.34	0.42
4:D:133:LEU:HD21	4:D:137:LYS:NZ	2.34	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
7:G:5:DA:O4'	13:7:364:LYS:HD2	2.18	0.42
8:2:247:ARG:HH22	8:2:301:PRO:CD	2.31	0.42
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
8:2:327:ARG:HB2	8:2:388:VAL:HG22	2.01	0.42
8:2:340:ASN:CB	8:2:376:ASN:HB3	2.47	0.42
8:2:348:LEU:O	8:2:348:LEU:HG	2.19	0.42
8:2:537:ILE:HG23	8:2:678:ASP:OD1	2.18	0.42
8:2:569:GLN:CG	8:2:570:GLY:H	2.29	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
9:3:43:ARG:HA	9:3:46:GLN:CG	2.49	0.42
9:3:408:VAL:O	9:3:548:VAL:HA	2.19	0.42
9:3:485:ALA:O	9:3:488:GLU:HB3	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
10:4:728:TYR:O	13:7:442:LYS:NZ	2.37	0.42
11:5:95:THR:HA	11:5:98:ALA:HB3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:373:SER:CB	11:5:594:ILE:HB	2.49	0.42
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
11:5:668:LEU:O	11:5:668:LEU:HD23	2.19	0.42
12:6:143:MET:HE3	12:6:148:LEU:N	2.34	0.42
12:6:156:GLN:O	12:6:160:MET:HG2	2.19	0.42
12:6:586:LYS:C	12:6:589:VAL:HG12	2.43	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
13:7:652:MET:HA	13:7:708:VAL:HG21	1.99	0.42
13:7:689:LEU:C	13:7:692:ILE:HG22	2.44	0.42
1:A:149:ILE:HG12	4:D:141:ARG:HG2	2.01	0.42
1:A:149:ILE:HD13	4:D:144:ILE:HD13	1.99	0.42
3:C:77:PRO:HG2	3:C:80:PHE:CD2	2.54	0.42
3:C:101:ASN:HB2	3:C:102:SER:CA	2.48	0.42
4:D:230:ILE:HB	4:D:291:VAL:HG22	2.00	0.42
5:E:70:HIS:C	5:E:73:GLN:H	2.23	0.42
5:E:150:ASP:CB	5:E:152:LEU:CB	2.96	0.42
5:E:162:LEU:HD13	5:E:162:LEU:C	2.44	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
8:2:227: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
8:2:777:LYS:C	8:2:829:VAL:H	2.27	0.42
9:3:42:VAL:O	9:3:45:ILE:HB	2.19	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
9:3:435: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
10:4:594:LYS:HG3	10:4:636:LYS:CD	2.49	0.42
10:4:629:CYS:O	10:4:671:ILE:HA	2.19	0.42
11:5:179:LEU:CD1	11:5:192:ILE:HB	2.44	0.42
11:5:337:VAL:C	11:5:339:THR:HA	2.44	0.42
11:5:408:GLY:HA2	11:5:409:ASP:HA	1.53	0.42
11:5:482:PHE:CE1	11:5:485:MET:HE1	2.54	0.42
12:6:137:ARG:O	12:6:140:ILE:HB	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
13:7:61:PRO:CG	13:7:64:MET:HE3	2.48	0.42
13:7:86:LEU:HD21	13:7:214:ARG:CD	2.49	0.42
13:7:227:VAL:HA	13:7:230:ILE:HD12	2.01	0.42
13:7:383:GLN:HB2	13:7:386:LYS:HZ3	1.84	0.42
1:A:35:ASP:OD1	1:A:35:ASP:N	2.52	0.42
1:A:130:TYR:HE1	4:D:189:ILE:HG23	1.82	0.42
1:A:144:GLY:C	1:A:146:LEU:HB3	2.43	0.42
2:B:54:THR:HG22	2:B:55:THR:N	2.34	0.42
2:B:95:THR:HG23	2:B:96:LYS:N	2.34	0.42
2:B:148:LEU:HD23	2:B:148:LEU:C	2.45	0.42
4:D:249:ASN:CB	4:D:257:THR:HG22	2.48	0.42
5:E:37:ASP:OD2	5:E:251:ILE:HG12	2.18	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:280:LEU:C	5:E:280:LEU:HD12	2.44	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
9:3:178:LYS:C	9:3:297:VAL:HA	2.44	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
10:4:797: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
11:5:622:LEU:HD21	11:5:677:VAL:HG12	1.99	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
12:6:448:LEU:HD12	12:6:448:LEU:C	2.45	0.42
12:6:620:ASP:C	12:6:621:TYR:CG	2.98	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
13:7:331:LEU:C	13:7:331:LEU:HD23	2.44	0.42
13:7:688:THR:O	13:7:692:ILE:N	2.39	0.42
3:C:11:ALA:HB3	3:C:110:LYS:HE2	2.00	0.42
5:E:316:LEU:HD11	5:E:413:LEU:C	2.44	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
8:2:311:GLU:OE2	12:6:354:LEU:HA	2.19	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
8:2:778:LEU:CB	8:2:783:MET:HE3	2.43	0.42
8:2:803:PHE:HE1	11:5:560:HIS:HD1	1.64	0.42
10:4:223:GLU:CD	10:4:228:LYS:HE3	2.45	0.42
10:4:243:LEU:CD1	10:4:305:PRO:HB3	2.40	0.42
10:4:253:GLN:O	10:4:254:THR:OG1	2.20	0.42
10:4:261:LEU:HD21	10:4:325:LEU:CD1	2.48	0.42
10:4:362:ARG:C	10:4:364:VAL:H	2.27	0.42
10:4:393:ASP:OD1	12:6:281:SER:OG	2.27	0.42
10:4:515:ARG:HG2	10:4:517:ASP:OD1	2.20	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
11:5:379:PHE:CG	11:5:568:ILE:HB	2.54	0.42
11:5:418:PRO:HA	14:5:801:ATP:O3G	2.19	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
12:6:398:THR:HG1	12:6:458:HIS:HB3	1.84	0.42
12:6:623:ILE:N	12:6:623:ILE:HD12	2.35	0.42
12:6:781:ARG:HE	12:6:795:ILE:C	2.19	0.42
13:7:517:ASP:HA	13:7:561:THR:N	2.34	0.42
1:A:65:ASP:OD2	1:A:67:VAL:HB	2.19	0.42
2:B:75:ILE:O	2:B:78:LEU:HB3	2.20	0.42
2:B:182:ARG:HB2	4:D:229:PHE:HE2	1.83	0.42
2:B:200:LEU:HD23	2:B:200:LEU:C	2.45	0.42
3:C:25:PRO:HG3	3:C:37:PRO:HB3	2.02	0.42
4:D:232:VAL:HB	4:D:270:THR:O	2.19	0.42
5:E:15:ILE:CD1	5:E:80:SER:CB	2.97	0.42
5:E:28:VAL:HG13	5:E:57:GLN:HB3	2.01	0.42
8:2:498:ILE:HA	8:2:501:MET:HB2	2.01	0.42
8:2:585:ILE:O	8:2:585:ILE:HG22	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
9:3:533:ILE:O	9:3:534:ALA:HB3	2.19	0.42
10:4:370:ARG:CA	10:4:371:CYS:HB2	2.49	0.42
10:4:656:ILE:HG23	10:4:658:LYS:HZ3	1.84	0.42
10:4:798:LEU:HD12	10:4:801:MET:HE3	2.00	0.42
11:5:622:LEU:HD11	11:5:677:VAL:CG1	2.50	0.42
12:6:551:MET:HE2	12:6:755:ILE:HD13	2.00	0.42
12:6:563:ILE:H	12:6:563:ILE:CD1	2.28	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: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:52:LEU:HD23	4:D:128:CYS:SG	2.59	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
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: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
8:2:429:ILE:C	8:2:451:ILE:HG23	2.43	0.42
9:3:214:TYR:OH	9:3:232:PRO:HD3	2.19	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
9:3:679: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
10:4:388:ARG:CZ	12:6:176:ARG:HD2	2.49	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
11:5:502:ILE:CG2	11:5:504:ILE:HD11	2.50	0.42
11:5:552:MET:HE2	11:5:554:PHE:CZ	2.55	0.42
11:5:653:LEU:O	11:5:657:ILE:HG13	2.19	0.42
11:5:653:LEU:HD23	11:5:653:LEU:C	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:357:GLN:CD	12:6:387:GLU:H	2.28	0.42
13:7:409:ASP:OD1	13:7:412:ASN:HB3	2.19	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
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
3:C:113:MET:HE2	3:C:113:MET:CA	2.49	0.42
3:C:170:GLU:CD	3:C:172:MET:HG2	2.45	0.42
4:D:76:LEU:HD11	4:D:147:ARG:NE	2.32	0.42
4:D:88:LEU:HD23	4:D:88:LEU:C	2.45	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
8:2:212: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
10:4:859:ARG:HH22	12:6:693:LEU:HD21	1.85	0.42
11:5:36:LEU:HA	11:5:47:ARG:HD2	2.02	0.42
11:5:179:LEU:HD13	11:5:181:ILE:CG1	2.46	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
11:5:494: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
13:7:67:LEU:HD21	13:7:125:MET:CA	2.49	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
1:A:27:VAL:HG22	1:A:28:ASN:N	2.35	0.42
2:B:74:TRP:O	2:B:77:LEU:HB3	2.20	0.42
4:D:98:ILE:HD12	4:D:98:ILE:C	2.44	0.42
4:D:230:ILE:HA	4:D:293:LEU:CA	2.24	0.42
5:E:27:LEU:HD13	5:E:56:SER:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:127:ARG:HA	5:E:128:PRO:C	2.45	0.42
5:E:256:TYR:HA	5:E:259:LEU:CB	2.49	0.42
5:E:379:TYR:OH	11:5:66:GLU:HG2	2.20	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
8:2:272:ASP:O	8:2:275:ALA:HB3	2.19	0.42
8:2:603:VAL:HG13	8:2:645:SER:C	2.44	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
8:2:797:SER:C	8:2:805:ILE:HD11	2.44	0.42
8:2:810:LEU:HD23	8:2:810:LEU:O	2.20	0.42
9:3:24:ARG:HD3	9:3:121:PHE:CD1	2.52	0.42
9:3:52:ASN:HB3	9:3:56:TYR:CE2	2.54	0.42
9:3:129:LEU:HD13	9:3:153:TRP:O	2.19	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
9:3:704: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
11:5:301:TYR:C	11:5:324:ARG:HB3	2.45	0.42
11:5:373:SER:CB	11:5:594:ILE:HD13	2.43	0.42
11:5:378:ILE:HD12	11:5:378:ILE:H	1.85	0.42
11:5:416:GLY:H	11:5:525:PRO:HD3	1.84	0.42
11:5:536:PRO:HD3	11:5:643:ARG:HD3	2.01	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
12:6:525:ILE:HD12	12:6:525:ILE:C	2.45	0.42
12:6:751:LEU:O	12:6:751:LEU:HD23	2.20	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
13:7:690:LEU:HD23	13:7:690:LEU:C	2.44	0.42
1:A:84:ARG:NH1	4:D:217:ASN:HD22	2.18	0.42
2:B:50:TRP:HB2	2:B:51:GLN:HA	2.01	0.42
2:B:115:LEU:HD11	2:B:152:ARG:CZ	2.49	0.42
2:B:157:LEU:HA	2:B:160:LEU:HB2	2.02	0.42
3:C:89:LYS:HB2	9:3:104:ARG:HH11	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:209:ILE:O	4:D:210:ASN:HB3	2.18	0.42
5:E:12:TYR:O	5:E:16:LEU:HG	2.19	0.42
5:E:149:ASP:N	5:E:150:ASP:CA	2.67	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
8:2:388: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
9:3:43:ARG:HB2	9:3:136:MET:HE2	2.01	0.42
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
12:6:406:ASP:CG	12:6:451:LYS:HD3	2.45	0.42
13:7:94:LEU:N	13:7:95:GLN:HB2	2.35	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
1:A:31:MET:O	1:A:93:ARG:NH1	2.53	0.42
1:A:60:LEU:HD12	1:A:60:LEU:N	2.35	0.42
1:A:83:LYS:C	1:A:87:LEU:HG	2.44	0.42
3:C:19:LYS:HB3	3:C:43:LYS:HA	2.01	0.42
4:D:176:SER:H	4:D:179:GLU:CD	2.27	0.42
5:E:29:ILE:HD12	5:E:29:ILE:C	2.44	0.42
5:E:95:PHE:O	5:E:96:LEU:HD23	2.20	0.42
5:E:283:ALA:HB2	5:E:587:ARG:HH12	1.85	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
8:2:323:VAL:C	8:2:390:LEU:HG	2.45	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
9:3:33:ASP:HB2	9:3:39:ARG:NH1	2.35	0.42
9:3:287:LYS:HG3	9:3:290:ASP:OD1	2.20	0.42
9:3:406:LEU:HB3	9:3:546:LEU:CD2	2.50	0.42
9:3:735:PHE:HA	9:3:738:LEU:C	2.45	0.42
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
13:7:1:MET:HG2	13:7:2:SER:N	2.34	0.42
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
4:D:231:HIS:H	4:D:292:ALA:C	2.19	0.41
5:E:34:LEU:HD11	5:E:543:LEU:CD2	2.49	0.41
5:E:543:LEU:HA	5:E:546:LEU:CB	2.44	0.41
8:2:234:LEU:HD12	8:2:234:LEU:O	2.20	0.41
8:2:340:ASN:CG	8:2:376:ASN:HB3	2.45	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
8:2:639:THR:CA	11:5:445:SER:HB3	2.38	0.41
9:3:42:VAL:HA	9:3:45:ILE:HG12	2.02	0.41
9:3:379:LYS:O	9:3:383:LEU:HG	2.19	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
11:5:393:MET:HE1	11:5:606:CYS:HB3	2.02	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
12:6:166:LEU:HD23	12:6:166:LEU:C	2.45	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
13:7:67:LEU:HD23	13:7:67:LEU:C	2.45	0.41
13:7:383:GLN:N	13:7:386:LYS:HE2	2.34	0.41
13:7:612:LEU:HD23	13:7:616:VAL:HG23	2.02	0.41
1:A:105:ASN:CB	1:A:110:MET:SD	3.07	0.41
1:A:131:LEU:HD23	1:A:131:LEU:C	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:145:ASP:CG	1:A:147:VAL:HG23	2.45	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
8:2:674: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
9:3:30:GLU:C	9:3:33:ASP:HB3	2.45	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
10:4:666:ASN:OD1	10:4:666:ASN:N	2.53	0.41
11:5:75:ILE:HA	11:5:78:LYS:CB	2.28	0.41
11:5:320:GLY:HA2	11:5:322:ALA:N	2.34	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
12:6:412:LEU:HB3	12:6:416:LYS:HZ1	1.84	0.41
12:6:596:VAL:HG21	12:6:630:LEU:HD11	2.02	0.41
12:6:751:LEU:HD23	12:6:751:LEU:C	2.45	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
2:B:84:LYS:HD3	4:D:124:LEU:HD21	2.01	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
4:D:153:LYS:O	4:D:218:MET:HE3	2.20	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:43:LYS:HA	5:E:46:SER:CB	2.38	0.41
5:E:428:LEU:HA	5:E:431:LEU:HD12	2.01	0.41
5:E:638:SER:N	5:E:639:PRO:HD2	2.35	0.41
8:2:314:LEU:HA	8:2:430:TYR:O	2.21	0.41
8:2:429:ILE:HD12	8:2:431:LYS:CE	2.44	0.41
8:2:476:TRP:HB3	8:2:765:LYS:HD2	2.02	0.41
8:2:704:VAL:CG1	12:6:766:THR:HG23	2.44	0.41
9:3:541:SER:O	9:3:700:ARG:HD2	2.21	0.41
10:4:523:ALA:HA	10:4:526:ILE:HG13	2.02	0.41
11:5:40:LEU:HD12	11:5:40:LEU:C	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:477:VAL:CG1	11:5:519:VAL:HG13	2.51	0.41
11:5:497:MET:HE3	11:5:549:ARG:HB3	2.02	0.41
11:5:623:SER:O	11:5:627:VAL:HG22	2.20	0.41
11:5:625:ASN:O	11:5:628:THR:OG1	2.18	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
12:6:579:THR:O	12:6:579:THR:HG22	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
12:6:663:ILE:O	12:6:664:ALA:HB2	2.20	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
1:A:44:VAL:HG23	1:A:79:MET:HE1	2.01	0.41
3:C:103:HIS:O	3:C:107:LEU:HD13	2.20	0.41
4:D:66:SER:HA	4:D:69:ASN:HB2	2.01	0.41
4:D:169:ILE:O	4:D:171:LEU:HG	2.19	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
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: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
8:2:333: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
8:2:541:LEU:CB	8:2:681:CYS:HB2	2.50	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
8:2:631:ILE:HA	11:5:442:LYS:CB	2.50	0.41
8:2:632:SER:HB3	11:5:486:ARG:HH22	1.84	0.41
9:3:118:PRO:HG3	9:3:297:VAL:HG22	2.02	0.41
9:3:254:GLN:OE1	9:3:284:ASP:N	2.49	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
10:4:571:SER:OG	13:7:685:THR:HG21	2.20	0.41
10:4:649:MET:HE3	10:4:701:ARG:HG2	1.98	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:512:GLU:H	12:6:512:GLU:CD	2.28	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
1:A:17:LYS:HD3	3:C:6:ILE:HD13	2.01	0.41
1:A:134:TYR:O	1:A:137:LEU:HB3	2.20	0.41
3:C:16:PHE:C	3:C:46:LEU:H	2.28	0.41
4:D:191:LEU:HD23	4:D:191:LEU:C	2.45	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:312:THR:OG1	5:E:314:ASP:O	2.39	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
8:2:230:ARG:HA	8:2:233:THR:HG1	1.84	0.41
8:2:233:THR:C	8:2:235:GLY:HA3	2.46	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
9:3:211:TYR:CG	13:7:8:ILE:HD12	2.55	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
10:4:794:THR:O	10:4:797:GLN:HB2	2.20	0.41
11:5:33:ASN:HA	11:5:37:GLU:HG2	2.02	0.41
11:5:364:PRO:HG2	11:5:365:LYS:CD	2.49	0.41
11:5:454:GLN:HB3	11:5:465:GLU:HB2	2.02	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
1:A:199:LEU:C	1:A:205:LEU:HG	2.44	0.41
2:B:182:ARG:O	2:B:186:THR:OG1	2.19	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
5:E:491:LEU:HD12	5:E:491:LEU:C	2.46	0.41
5:E:605:PHE:HA	5:E:608:ALA:CB	2.44	0.41
8:2:363:PHE:CB	8:2:368:LYS:CB	2.98	0.41
8:2:550:SER:HB2	14:2:901:ATP:O3A	2.20	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
9:3:98:ILE:CG1	9:3:155:LEU:HD22	2.39	0.41
9:3:196:LEU:HD23	9:3:196:LEU:C	2.46	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
10:4:366:GLN:H	10:4:366:GLN:CD	2.28	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
10:4:859:ARG:NH2	12:6:693:LEU:HD21	2.36	0.41
11:5:27:ILE:HG22	11:5:31:PHE:CE2	2.55	0.41
11:5:167:ILE:HD11	11:5:273:ASN:HB3	2.02	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
13:7:564:LEU:C	13:7:564:LEU:HD23	2.45	0.41
13:7:580:PRO:HG2	13:7:679:PHE:O	2.21	0.41
1:A:71:GLN:OE1	1:A:71:GLN:N	2.38	0.41
1:A:107:LEU:CD2	1:A:153:GLY:CA	2.97	0.41
1:A:137:LEU:O	1:A:140:ASP:HB2	2.20	0.41
1:A:175:GLN:HG3	1:A:181:PHE:HB2	2.03	0.41
2:B:197:THR:HG22	4:D:263:LEU:HD23	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:27:LEU:HG	3:C:38:ILE:CG1	2.51	0.41
4:D:64:MET:HA	4:D:67:TRP:HB3	2.03	0.41
5:E:81:LEU:HD12	5:E:120:ILE:CG2	2.49	0.41
5:E:324:TYR:HE1	5:E:405:ILE:HG13	1.80	0.41
5:E:356:LYS:O	5:E:360:HIS:ND1	2.50	0.41
5:E:490:GLU:C	5:E:493:ASN:HD22	2.28	0.41
5:E:572:ILE:HD11	5:E:578:THR:H	1.85	0.41
8:2:534:ARG:CZ	8:2:534:ARG:HB3	2.51	0.41
8:2:553:LEU:HD12	8:2:553:LEU:C	2.45	0.41
9:3:123:PRO:HA	9:3:126:GLU:OE1	2.20	0.41
9:3:169:ARG:HE	9:3:266:PRO:HG3	1.86	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
9:3:410:ASP:CB	9:3:551:ASP:HB2	2.39	0.41
9:3:431:ALA:CB	9:3:471:CYS:HB2	2.51	0.41
9:3:490:MET:HE2	9:3:490:MET:HB3	1.96	0.41
9:3:513:ILE:HG22	9:3:514:ALA:N	2.36	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
10:4:655: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
11:5:153:SER:HA	11:5:298:TYR:HE2	1.86	0.41
11:5:235:ASN:HA	11:5:236:CYS:HA	1.64	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
13:7:21:ILE:O	13:7:25:LEU:N	2.36	0.41
13:7:82:LEU:HG	13:7:206:PRO:HA	2.03	0.41
13:7:86:LEU:HD23	13:7:90:ASN:ND2	2.35	0.41
13:7:231:LYS:HG3	13:7:232:GLY:N	2.36	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
1:A:145:ASP:CA	1:A:146:LEU:CB	2.95	0.41
2:B:66:MET:HE2	2:B:66:MET:CA	2.50	0.41
2:B:107:THR:HG23	2:B:108:HIS:CE1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:178:ILE:O	2:B:181:LEU:HG	2.21	0.41
4:D:140:ILE:HD12	4:D:140:ILE:C	2.46	0.41
4:D:227:PHE:HD1	4:D:277:MET:CA	2.25	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
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:612:ILE:O	5:E:615:GLU:HB3	2.20	0.41
8:2:632:SER:HB2	11:5:442:LYS:C	2.46	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
9:3:671:LEU:HD23	9:3:671:LEU:C	2.46	0.41
10:4:291:TYR:CB	10:4:296:ILE:HG12	2.40	0.41
10:4:453:LEU:HD12	13:7:278:PHE:CZ	2.56	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
12:6:119:LEU:HD12	12:6:119:LEU:C	2.45	0.41
12:6:759:ARG:C	12:6:812:ARG:HH21	2.29	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
13:7:312:GLU:HA	13:7:334:HIS:HA	2.03	0.41
1:A:16:THR:CA	1:A:19:LEU:HD12	2.46	0.41
1:A:44:VAL:HG23	1:A:79:MET:CE	2.50	0.41
1:A:78:CYS:HA	1:A:81:ARG:CB	2.40	0.41
1:A:164:ASP:HA	1:A:189:PHE:O	2.20	0.41
1:A:165:VAL:HG13	1:A:206:GLN:N	2.33	0.41
2:B:57:ASP:C	2:B:59:ALA:H	2.29	0.41
2:B:64:VAL:HG21	2:B:67:ARG:NH1	2.36	0.41
2:B:108:HIS:CD2	2:B:111:ARG:HH21	2.38	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
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:30:PHE:HD1	5:E:61:ILE:CD1	2.33	0.41
5:E:71:TYR:CE2	5:E:96:LEU:HB3	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:318:LEU:HA	5:E:412:THR:HG23	2.03	0.41
5:E:429:THR:HA	5:E:432:LEU:CD1	2.51	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
6:F:21:DT:H5"	11:5:506:LYS:CE	2.50	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
8:2:296:ARG:HE	8:2:414:LEU:HD21	1.85	0.41
8:2:314:LEU:HA	8:2:430:TYR:HD2	1.86	0.41
8:2:446:VAL:HG22	12:6:302:PRO:O	2.20	0.41
8:2:582:LYS:HZ2	8:2:582:LYS:HG2	1.71	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
8:2:693:GLU:O	8:2:697:THR:OG1	2.18	0.41
8:2:820:PHE:O	8:2:824:ARG:N	2.54	0.41
8:2:849:GLN:HB2	8:2:853:VAL:CB	2.49	0.41
9:3:158:LYS:CA	9:3:327:TYR:CE2	2.95	0.41
9:3:177:ASN:ND2	11:5:246:GLU:HA	2.36	0.41
9:3:179:LEU:HB2	9:3:297:VAL:CG2	2.51	0.41
9:3:189:THR:CA	9:3:256:ILE:HG22	2.47	0.41
9:3:190:SER:CB	9:3:255:ARG:HG3	2.50	0.41
9:3:191:LEU:CB	9:3:456:ARG:HE	2.34	0.41
9:3:279:ASP:H	9:3:282:LEU:HB2	1.86	0.41
9:3:470:VAL:HB	9:3:512:VAL:CB	2.50	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
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
10:4:557:ARG:C	10:4:559:ARG:H	2.26	0.41
10:4:559:ARG:CZ	10:4:668:ARG:HB2	2.50	0.41
10:4:594:LYS:HD3	10:4:636:LYS:O	2.20	0.41
10:4:909:ARG:NH2	12:6:698:ASN:HA	2.36	0.41
11:5:87:ILE:HB	11:5:88:PRO:CD	2.51	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
12:6:122:PHE:HB2	12:6:134:LYS:O	2.20	0.41
12:6:166:LEU:O	12:6:166:LEU:HD23	2.20	0.41
12:6:537:VAL:HG21	12:6:584:PHE:CE1	2.56	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
12:6:550:GLN:HE21	12:6:570:ASN:HA	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:569:ILE:HD13	12:6:805:ARG:CD	2.51	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
12:6:773:LEU:CD2	12:6:800:LEU:HD11	2.45	0.41
13:7:95:GLN:OE1	13:7:95:GLN:N	2.54	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
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
13:7:547:SER:C	13:7:548:ILE:HD12	2.46	0.41
1:A:89:TYR:O	1:A:93:ARG:HB2	2.20	0.41
1:A:165:VAL:O	1:A:189:PHE:N	2.49	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:30:PHE:CD1	5:E:61:ILE:HD11	2.56	0.41
5:E:78:ILE:HD12	5:E:78:ILE:N	2.34	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
6:F:6:DT:H2'	6:F:7:DC:C6	2.56	0.41
8:2:229:ALA:O	8:2:233:THR:HG23	2.20	0.41
8:2:637:VAL:CG1	11:5:471:LEU:HD11	2.50	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
9:3:130: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
9:3:383:LEU:HA	9:3:711:ALA:HB1	2.03	0.41
9:3:390:GLU:CB	9:3:509:ARG:HH22	2.33	0.41
9:3:506:LEU:C	9:3:506:LEU:HD12	2.46	0.41
9:3:676:ILE:HG23	9:3:680:VAL:HG23	2.02	0.41
10:4:355:THR:HG23	10:4:356:MET:HE2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:400:GLN:HA	10:4:414:SER:HA	2.02	0.41
10:4:433:ILE:HG22	10:4:434:GLU:N	2.36	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
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
11:5:374:ILE:C	11:5:385:LYS:HE3	2.44	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
12:6:130:GLY:CA	12:6:131:GLU:CB	2.93	0.41
12:6:274:HIS:O	12:6:290:ILE:HG23	2.20	0.41
13:7:228:ARG:HD3	13:7:329:ARG:CD	2.51	0.41
13:7:354:ILE:HG23	13:7:379:GLN:CD	2.46	0.41
13:7:517:ASP:HB3	13:7:559:ALA:HA	2.02	0.41
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:72:VAL:CG1	2:B:75:ILE:HG23	2.51	0.40
2:B:146:GLN:HG2	11:5:44:PHE:CZ	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:62:PHE:CE1	5:E:473:TRP:HE3	2.39	0.40
5:E:64:TYR:CB	5:E:625:PHE:HA	2.37	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:525:TYR:HE1	5:E:527:LEU:HD12	1.85	0.40
8:2:419:LYS:NZ	8:2:598:LEU:HD12	2.36	0.40
8:2:478:GLU:CD	8:2:482:ARG:HD2	2.46	0.40
8:2:534:ARG:HE	8:2:815:ARG:NH2	2.19	0.40
8:2:676:ARG:NH1	11:5:418:PRO:HB2	2.31	0.40
8:2:839:LYS:CE	8:2:864:TYR:HD1	2.34	0.40
14:2:901:ATP:PB	12:6:708:ARG:HH12	2.44	0.40
9:3:115:LEU:O	9:3:164:HIS:NE2	2.45	0.40
9:3:195:LYS:HA	13:7:372:THR:H	1.86	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:CD1	10:4:236:LEU:H	2.35	0.40
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
11:5:379:PHE:N	14:5:801:ATP:N1	2.64	0.40
11:5:410:ILE:HG13	11:5:411:ASN:N	2.36	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
12:6:272:THR:HG22	12:6:273:VAL:N	2.34	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
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
13:7:463:GLY:O	13:7:464:VAL:HB	2.21	0.40
13:7:597:LEU:C	13:7:597:LEU:HD23	2.46	0.40
13:7:648:LYS:CE	13:7:704:LEU:HD22	2.51	0.40
1:A:17:LYS:CD	3:C:6:ILE:HD13	2.51	0.40
1:A:73:PHE:CE1	3:C:57:VAL:HG21	2.56	0.40
1:A:83:LYS:HG2	1:A:87:LEU:CD2	2.50	0.40
1:A:156:VAL:HG12	1:A:157:PRO:O	2.21	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
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
8:2:305: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
9:3:95:ARG:NH2	9:3:282:LEU:HD11	2.35	0.40
9:3:179:LEU:HA	9:3:296:GLY:O	2.21	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:253:GLN:C	10:4:254:THR:HG23	2.46	0.40
11:5:52:ASN:O	11:5:56:VAL:HG23	2.21	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
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
12:6:656:MET:HA	12:6:656:MET:CE	2.44	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
13:7:537:ILE:HA	13:7:540:VAL:CG2	2.51	0.40
13:7:543:GLN:CG	13:7:544:GLN:N	2.70	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
4:D:126:LEU:HD23	4:D:126:LEU:C	2.46	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
4:D:267:VAL:HB	4:D:268:GLU:C	2.46	0.40
5:E:15:ILE:O	5:E:19:SER:N	2.55	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
5:E:82:LEU:HD23	5:E:82:LEU:C	2.46	0.40
5:E:619:LYS:CD	5:E:633:ARG:HG3	2.51	0.40
5:E:637:LEU:HA	5:E:640:PHE:CB	2.44	0.40
6:F:9:DA:C2'	6:F:10:DT:H72	2.52	0.40
8:2:442:ASN:O	8:2:444:PHE:C	2.64	0.40
8:2:573:ALA:CB	12:6:670:ALA:H	2.34	0.40
8:2:699:VAL:O	8:2:702:SER:HB3	2.22	0.40
9:3:350:ILE:H	9:3:350:ILE:HD12	1.87	0.40
9:3:496:THR:HG22	9:3:505:THR:HG23	2.03	0.40
9:3:562:SER:CB	11:5:623:SER:HB2	2.50	0.40
9:3:684:THR:OG1	13:7:610:GLU:OE2	2.27	0.40
14:3:1001:ATP:H1'	11:5:650:ILE:HG13	2.04	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
10:4:417:LEU:C	10:4:417:LEU:HD12	2.47	0.40
10:4:455:SER:H	13:7:277:THR:HA	1.86	0.40
10:4:805:ALA:O	10:4:808:HIS:HB3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
11:5:485:MET:SD	11:5:490:ARG:HA	2.61	0.40
11:5:513:LEU:HD12	11:5:513:LEU:C	2.46	0.40
12:6:126:SER:O	12:6:132:VAL:HA	2.21	0.40
12:6:153:ILE:HD12	12:6:153:ILE:C	2.47	0.40
12:6:158:LEU:HD22	12:6:167:ALA:HB2	2.02	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
13:7:463:GLY:C	13:7:465:ALA:N	2.80	0.40
13:7:478:PRO:O	13:7:479:ARG:HB3	2.21	0.40
1:A:100:MET:HE2	1:A:117:GLN:HG3	2.04	0.40
1:A:105:ASN:HA	1:A:106:GLY:HA3	1.62	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
2:B:163:LEU:CB	2:B:189:MET:HE1	2.50	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:288:TYR:C	5:E:291:LEU:H	2.29	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
8:2:216:LEU:HD12	8:2:217:GLU:H	1.86	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
9:3:421:PHE:HD1	11:5:402:ASP:OD2	2.04	0.40
9:3:658:LYS:HA	9:3:661:GLN:HG2	2.03	0.40
9:3:694:LYS:O	9:3:695:SER:OG	2.38	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
10:4:682:TYR:C	10:4:691:ASN:HD21	2.29	0.40
10:4:830:ARG:HA	10:4:833:ILE:CD1	2.46	0.40
11:5:258:LEU:C	11:5:258:LEU:HD23	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:159:SER:HA	12:6:164:GLY:HA2	2.04	0.40
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
13:7:539: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:100:MET:CE	1:A:117:GLN:HG2	2.51	0.40
1:A:174:ILE:HD12	1:A:174:ILE:C	2.46	0.40
2:B:146:GLN:HB3	11:5:47:ARG:NH2	2.35	0.40
2:B:178:ILE:C	2:B:181:LEU:HG	2.47	0.40
5:E:227:LYS:HA	5:E:230:ILE:HB	2.03	0.40
5:E:637:LEU:HD12	5:E:637:LEU:C	2.46	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
9:3:386:MET:HE3	9:3:715:VAL:N	2.36	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
9:3:557:ARG:O	9:3:560:SER:OG	2.35	0.40
9:3:711:ALA:O	9:3:715:VAL:HG23	2.21	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
10:4:566:LEU:HG	10:4:674:SER:HA	2.03	0.40
10:4:631:ILE:N	10:4:672:LEU:O	2.52	0.40
10:4:726:ASN:O	10:4:727:LEU:HG	2.20	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
11:5:415:LEU:HD12	11:5:415:LEU:C	2.46	0.40
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
12:6:371:GLY:HA3	13:7:554:ASN:CG	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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

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%)	24	63
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%)	14	50
5	E	543/650 (84%)	490 (90%)	51 (9%)	2 (0%)	30	67
8	2	596/868 (69%)	535 (90%)	54 (9%)	7 (1%)	10	43
9	3	579/971 (60%)	528 (91%)	48 (8%)	3 (0%)	24	63
10	4	670/933 (72%)	594 (89%)	69 (10%)	7 (1%)	12	48
11	5	583/775 (75%)	549 (94%)	30 (5%)	4 (1%)	18	56
12	6	596/1017 (59%)	528 (89%)	58 (10%)	10 (2%)	7	36
13	7	653/845 (77%)	583 (89%)	60 (9%)	10 (2%)	8	39
All	All	4969/6968 (71%)	4484 (90%)	439 (9%)	46 (1%)	16	50

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
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

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Mol	Chain	Res	Type
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%)	189 (98%)	4 (2%)	47	65
2	B	171/198 (86%)	170 (99%)	1 (1%)	78	83
3	C	144/173 (83%)	144 (100%)	0	100	100
4	D	213/279 (76%)	210 (99%)	3 (1%)	59	72
5	E	499/586 (85%)	495 (99%)	4 (1%)	73	80
8	2	508/770 (66%)	500 (98%)	8 (2%)	55	70
9	3	512/835 (61%)	505 (99%)	7 (1%)	59	72
10	4	610/848 (72%)	601 (98%)	9 (2%)	57	72
11	5	534/688 (78%)	525 (98%)	9 (2%)	53	69
12	6	486/886 (55%)	478 (98%)	8 (2%)	55	70
13	7	585/753 (78%)	579 (99%)	6 (1%)	68	78
All	All	4455/6209 (72%)	4396 (99%)	59 (1%)	59	74

All (59) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	105	ASN
1	A	107	LEU
1	A	151	LEU
1	A	168	LEU
2	B	118	ASN
4	D	199	LEU
4	D	216	VAL
4	D	269	LEU

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Mol	Chain	Res	Type
5	E	27	LEU
5	E	33	CYS
5	E	405	ILE
5	E	601	ILE
8	2	216	LEU
8	2	234	LEU
8	2	314	LEU
8	2	437	ASN
8	2	588	GLU
8	2	604	CYS
8	2	674	LEU
8	2	814	LEU
9	3	95	ARG
9	3	248	SER
9	3	315	ILE
9	3	395	ASN
9	3	509	ARG
9	3	510	CYS
9	3	535	LEU
10	4	188	GLN
10	4	284	ILE
10	4	351	VAL
10	4	416	SER
10	4	456	LEU
10	4	502	THR
10	4	509	ILE
10	4	727	LEU
10	4	821	ASP
11	5	60	SER
11	5	94	ILE
11	5	294	ILE
11	5	302	ASN
11	5	303	SER
11	5	305	ASN
11	5	331	LEU
11	5	435	ILE
11	5	509	ILE
12	6	304	LEU
12	6	361	ILE
12	6	403	VAL
12	6	449	THR
12	6	452	ILE

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Mol	Chain	Res	Type
12	6	548	LEU
12	6	628	LEU
12	6	677	SER
13	7	139	LEU
13	7	248	VAL
13	7	255	VAL
13	7	291	GLN
13	7	476	ILE
13	7	631	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (72) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	28	ASN
1	A	104	ASN
1	A	117	GLN
1	A	118	GLN
1	A	201	GLN
2	B	82	GLN
2	B	167	HIS
3	C	101	ASN
3	C	133	GLN
3	C	136	ASN
3	C	137	HIS
4	D	94	GLN
4	D	217	ASN
5	E	13	ASN
5	E	26	GLN
5	E	52	GLN
5	E	55	GLN
5	E	133	ASN
5	E	138	GLN
5	E	155	GLN
5	E	225	GLN
5	E	286	GLN
5	E	308	ASN
5	E	436	ASN
5	E	493	ASN
5	E	563	GLN
8	2	202	ASN
8	2	333	GLN
8	2	621	HIS

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Mol	Chain	Res	Type
8	2	779	HIS
9	3	49	ASN
9	3	177	ASN
9	3	351	ASN
9	3	492	GLN
9	3	688	ASN
10	4	260	GLN
10	4	266	GLN
10	4	307	ASN
10	4	354	HIS
10	4	410	GLN
10	4	447	ASN
10	4	579	GLN
10	4	646	HIS
10	4	652	GLN
10	4	691	ASN
10	4	862	GLN
11	5	67	HIS
11	5	254	GLN
11	5	305	ASN
11	5	500	GLN
11	5	514	ASN
11	5	543	GLN
11	5	590	ASN
11	5	625	ASN
12	6	357	GLN
12	6	458	HIS
12	6	550	GLN
12	6	658	GLN
12	6	669	HIS
12	6	673	ASN
12	6	750	GLN
12	6	799	GLN
12	6	814	ASN
13	7	89	GLN
13	7	90	ASN
13	7	108	GLN
13	7	145	GLN
13	7	271	GLN
13	7	326	HIS
13	7	383	GLN
13	7	543	GLN

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Mol	Chain	Res	Type
13	7	620	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

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	5	801	-	32,33,33	1.42	6 (18%)	48,52,52	1.76	10 (20%)
14	ATP	2	901	-	32,33,33	1.45	5 (15%)	48,52,52	1.76	10 (20%)
14	ATP	3	1001	-	32,33,33	1.38	5 (15%)	48,52,52	1.77	10 (20%)

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	5	801	-	-	3/22/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
14	ATP	2	901	-	-	3/22/38/38	0/3/3/3
14	ATP	3	1001	-	-	2/22/38/38	0/3/3/3

All (16) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	2	901	ATP	C5-C4	4.71	1.47	1.39
14	3	1001	ATP	C5-C4	4.56	1.47	1.39
14	5	801	ATP	C5-C4	4.55	1.47	1.39
14	3	1001	ATP	C5-C6	2.68	1.48	1.41
14	5	801	ATP	C5-C6	2.65	1.48	1.41
14	2	901	ATP	C5-C6	2.63	1.48	1.41
14	2	901	ATP	C5-N7	-2.48	1.34	1.39
14	5	801	ATP	C8-N7	2.41	1.36	1.31
14	3	1001	ATP	C8-N7	2.39	1.36	1.31
14	2	901	ATP	C8-N7	2.39	1.36	1.31
14	3	1001	ATP	C5-N7	-2.27	1.34	1.39
14	5	801	ATP	C5-N7	-2.18	1.35	1.39
14	2	901	ATP	PB-O3A	2.15	1.61	1.59
14	5	801	ATP	PB-O3A	2.15	1.61	1.59
14	5	801	ATP	PA-O3A	2.12	1.61	1.59
14	3	1001	ATP	PB-O3B	2.04	1.61	1.59

All (30) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	3	1001	ATP	C5-C4-N3	-5.71	118.85	126.72
14	2	901	ATP	C5-C4-N3	-5.61	119.00	126.72
14	5	801	ATP	C5-C4-N3	-5.50	119.14	126.72
14	3	1001	ATP	N3-C4-N9	4.55	134.91	127.17
14	2	901	ATP	N3-C4-N9	4.40	134.64	127.17
14	5	801	ATP	N3-C4-N9	4.34	134.55	127.17
14	3	1001	ATP	C2-N3-C4	3.83	121.18	111.83
14	5	801	ATP	N3-C2-N1	-3.80	122.82	128.58
14	2	901	ATP	N3-C2-N1	-3.80	122.83	128.58
14	5	801	ATP	C2-N3-C4	3.79	121.10	111.83
14	2	901	ATP	C2-N3-C4	3.77	121.04	111.83
14	3	1001	ATP	N3-C2-N1	-3.67	123.02	128.58
14	5	801	ATP	C4-C5-N7	-3.52	106.55	110.58
14	3	1001	ATP	C4-C5-N7	-3.42	106.67	110.58
14	2	901	ATP	C4-C5-N7	-3.38	106.72	110.58
14	5	801	ATP	C4-N9-C8	2.98	108.87	105.74

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	3	1001	ATP	C4-N9-C8	2.89	108.77	105.74
14	3	1001	ATP	C5-N7-C8	2.68	107.66	103.45
14	5	801	ATP	C5-N7-C8	2.65	107.62	103.45
14	2	901	ATP	C3'-C2'-C1'	2.61	106.41	101.46
14	2	901	ATP	C2-N1-C6	2.53	122.88	118.73
14	2	901	ATP	C4-N9-C8	2.47	108.33	105.74
14	2	901	ATP	C5-N7-C8	2.38	107.19	103.45
14	5	801	ATP	C6-C5-N7	2.32	136.57	132.09
14	5	801	ATP	N9-C8-N7	-2.31	110.65	113.94
14	3	1001	ATP	N9-C8-N7	-2.31	110.66	113.94
14	5	801	ATP	C2-N1-C6	2.24	122.41	118.73
14	3	1001	ATP	C6-C5-N7	2.12	136.18	132.09
14	2	901	ATP	C6-C5-N7	2.06	136.06	132.09
14	3	1001	ATP	C2-N1-C6	2.03	122.06	118.73

There are no chirality outliers.

All (8) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
14	2	901	ATP	C5'-O5'-PA-O1A
14	2	901	ATP	C5'-O5'-PA-O2A
14	2	901	ATP	C5'-O5'-PA-O3A
14	3	1001	ATP	PG-O3B-PB-O1B
14	5	801	ATP	PA-O3A-PB-O1B
14	3	1001	ATP	PG-O3B-PB-O2B
14	5	801	ATP	PA-O3A-PB-O2B
14	5	801	ATP	O4'-C4'-C5'-O5'

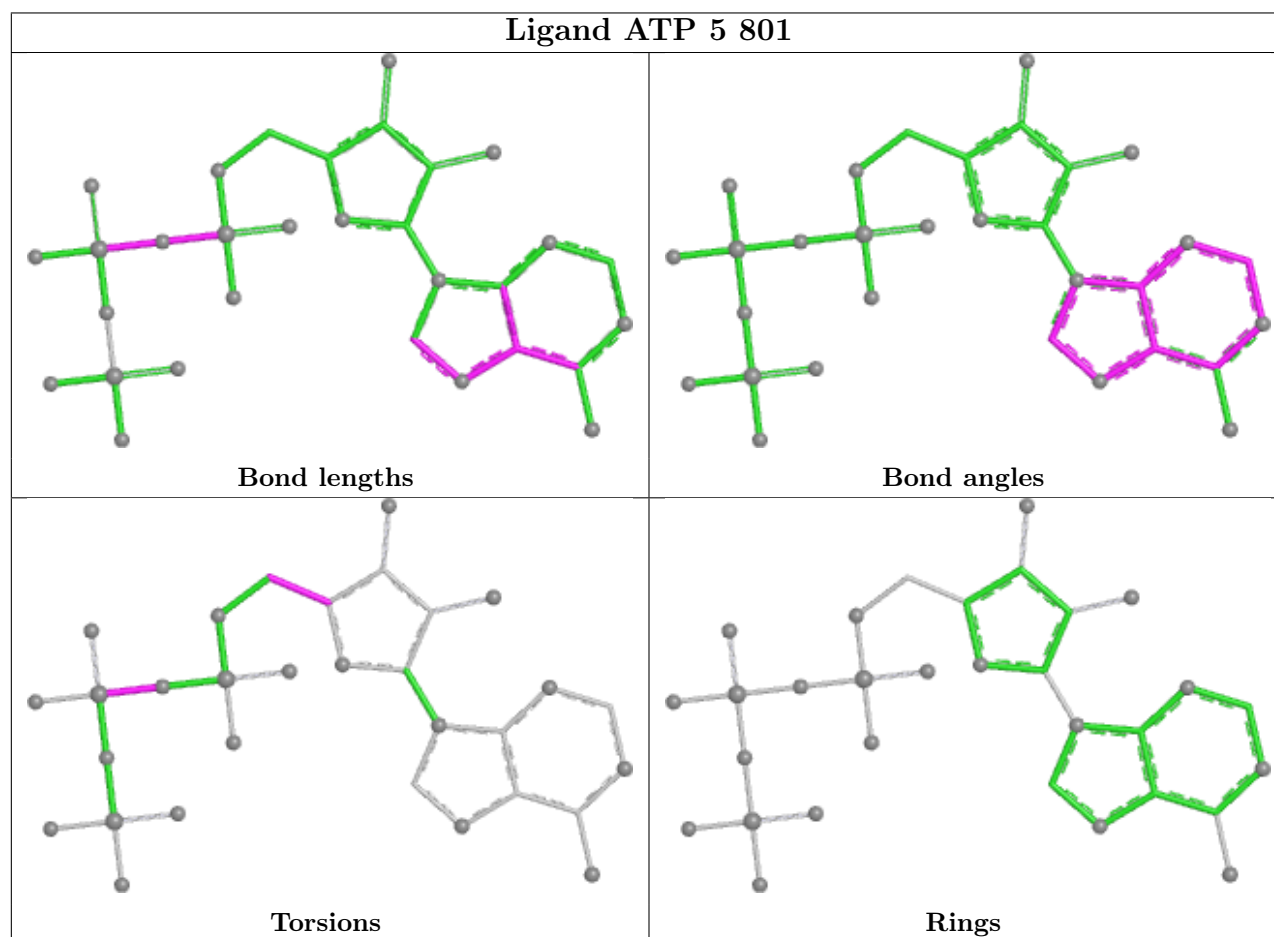
There are no ring outliers.

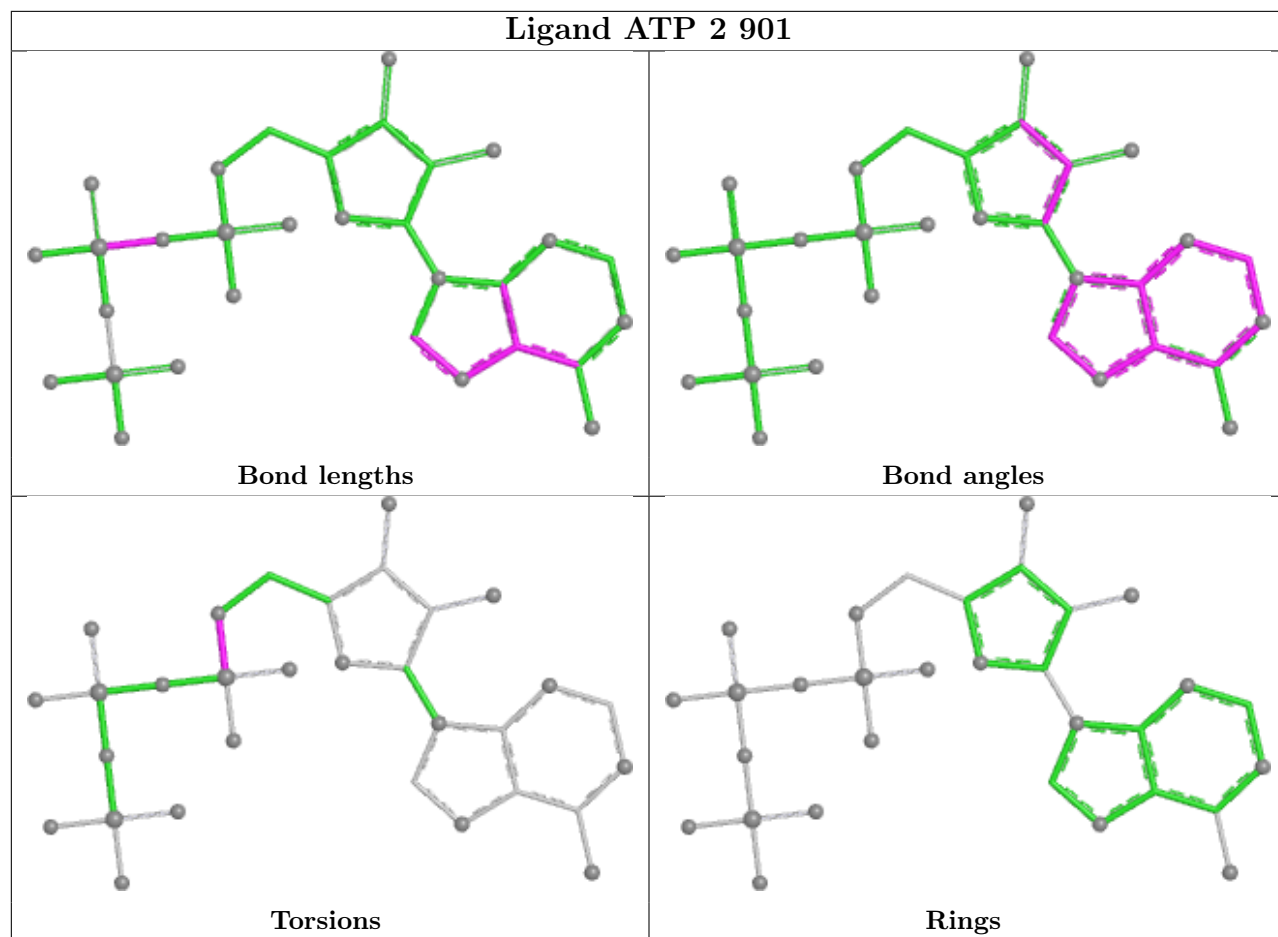
3 monomers are involved in 29 short contacts:

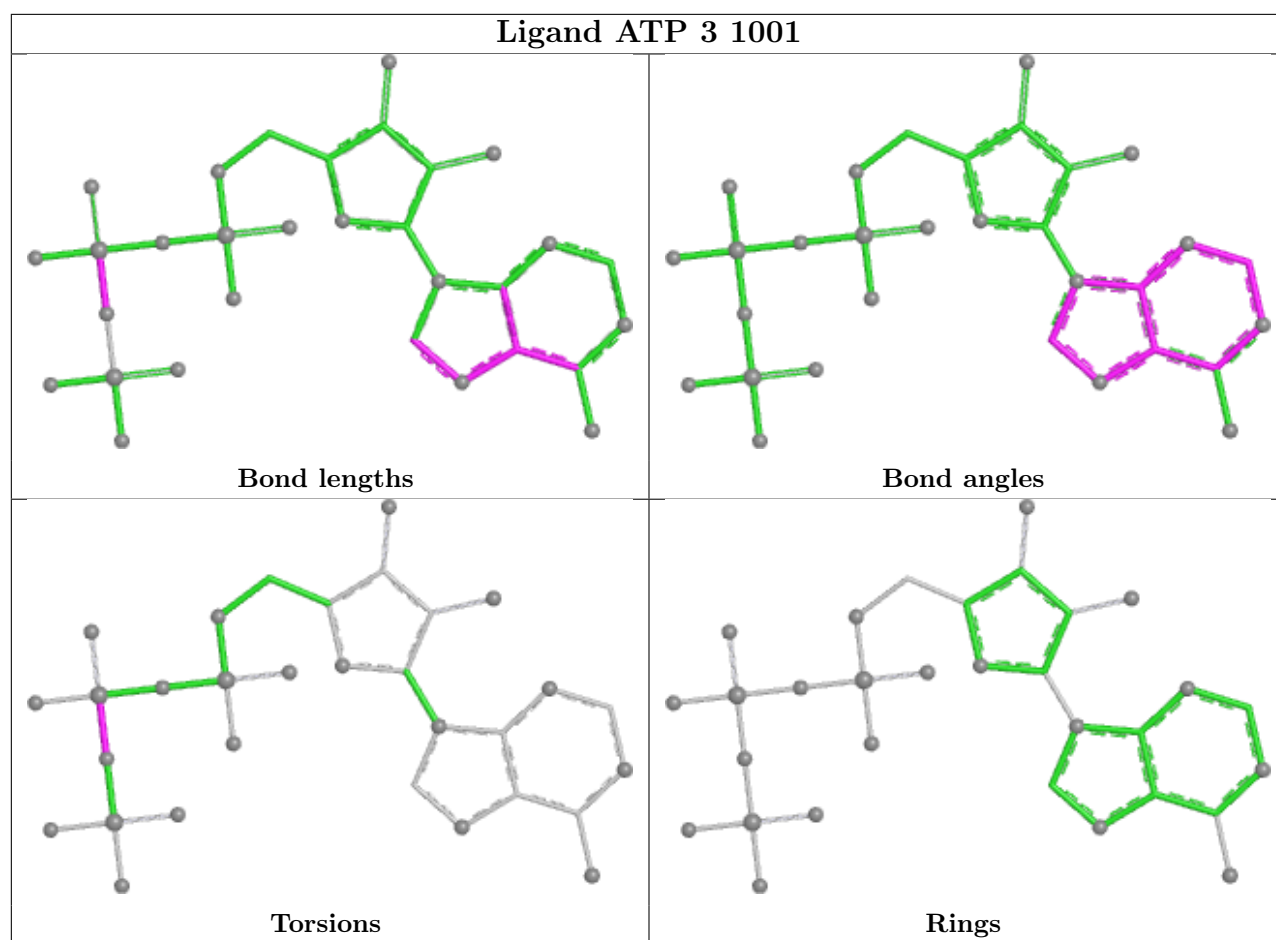
Mol	Chain	Res	Type	Clashes	Symm-Clashes
14	5	801	ATP	12	0
14	2	901	ATP	12	0
14	3	1001	ATP	5	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be

highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.







5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

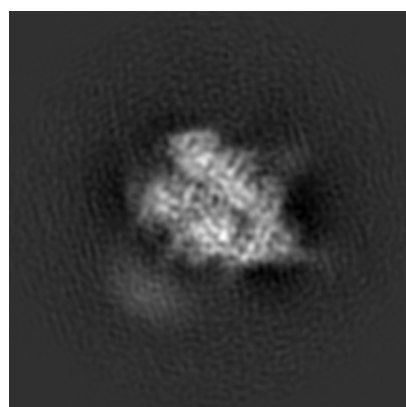
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-8518. These allow visual inspection of the internal detail of the map and identification of artifacts.

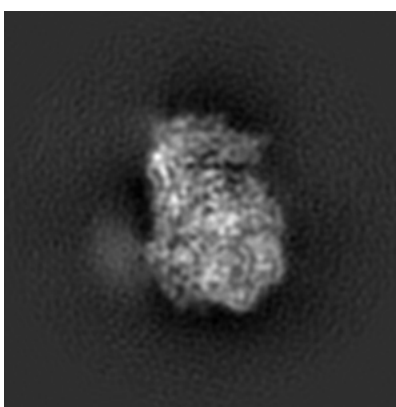
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

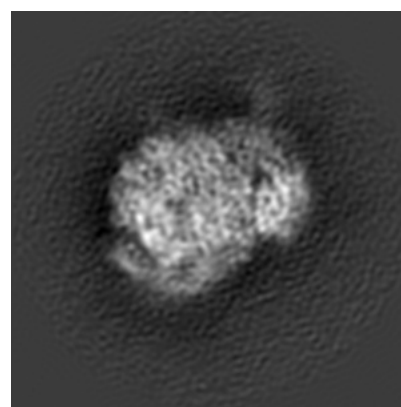
6.1.1 Primary map



X



Y

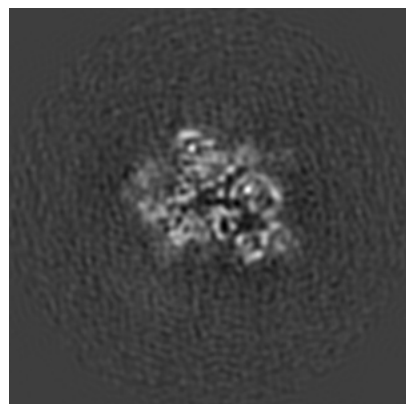


Z

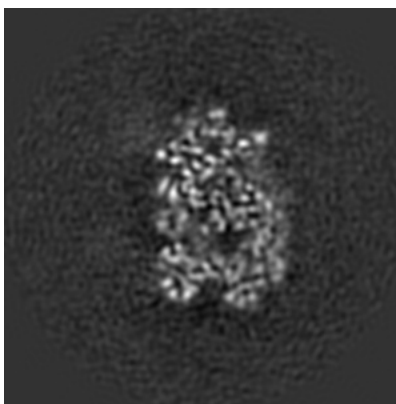
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

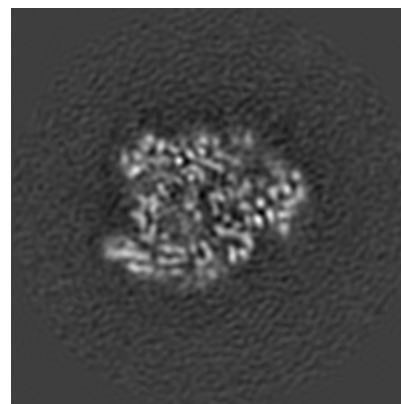
6.2.1 Primary map



X Index: 128



Y Index: 128

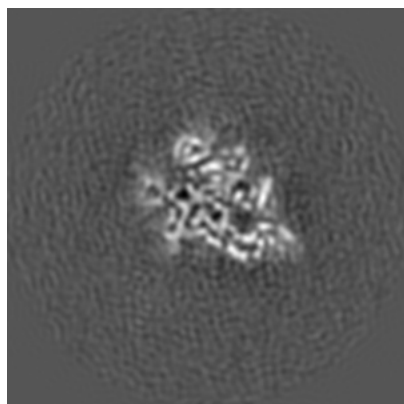


Z Index: 128

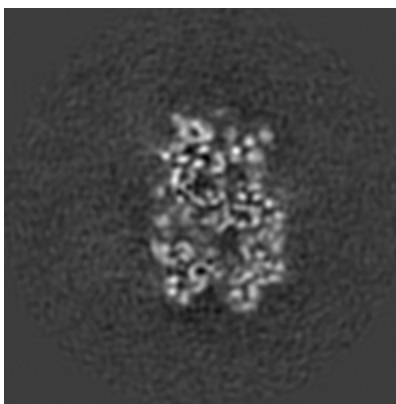
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

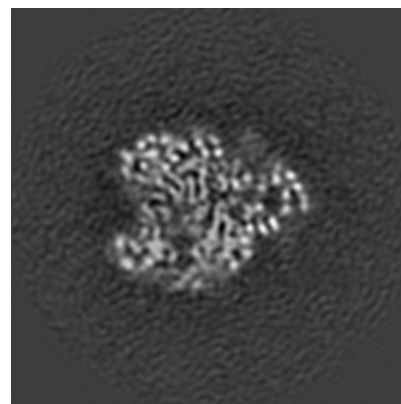
6.3.1 Primary map



X Index: 133



Y Index: 124

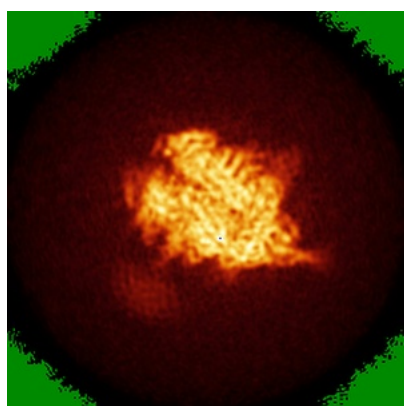


Z Index: 133

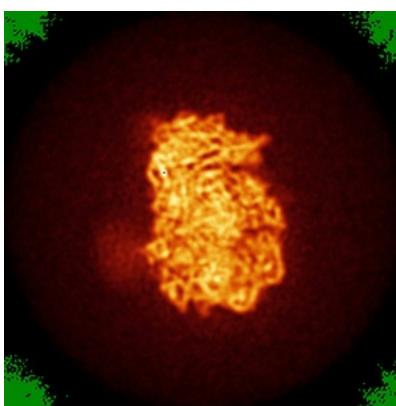
The images above show the largest variance slices of the map in three orthogonal directions.

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

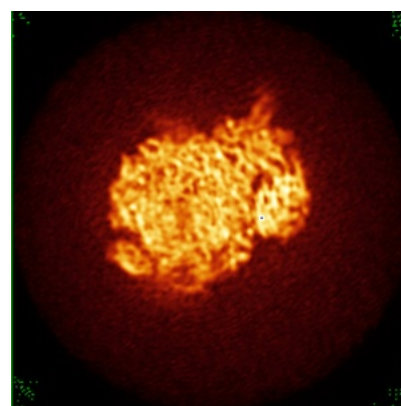
6.4.1 Primary map



X



Y



Z

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

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.02. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

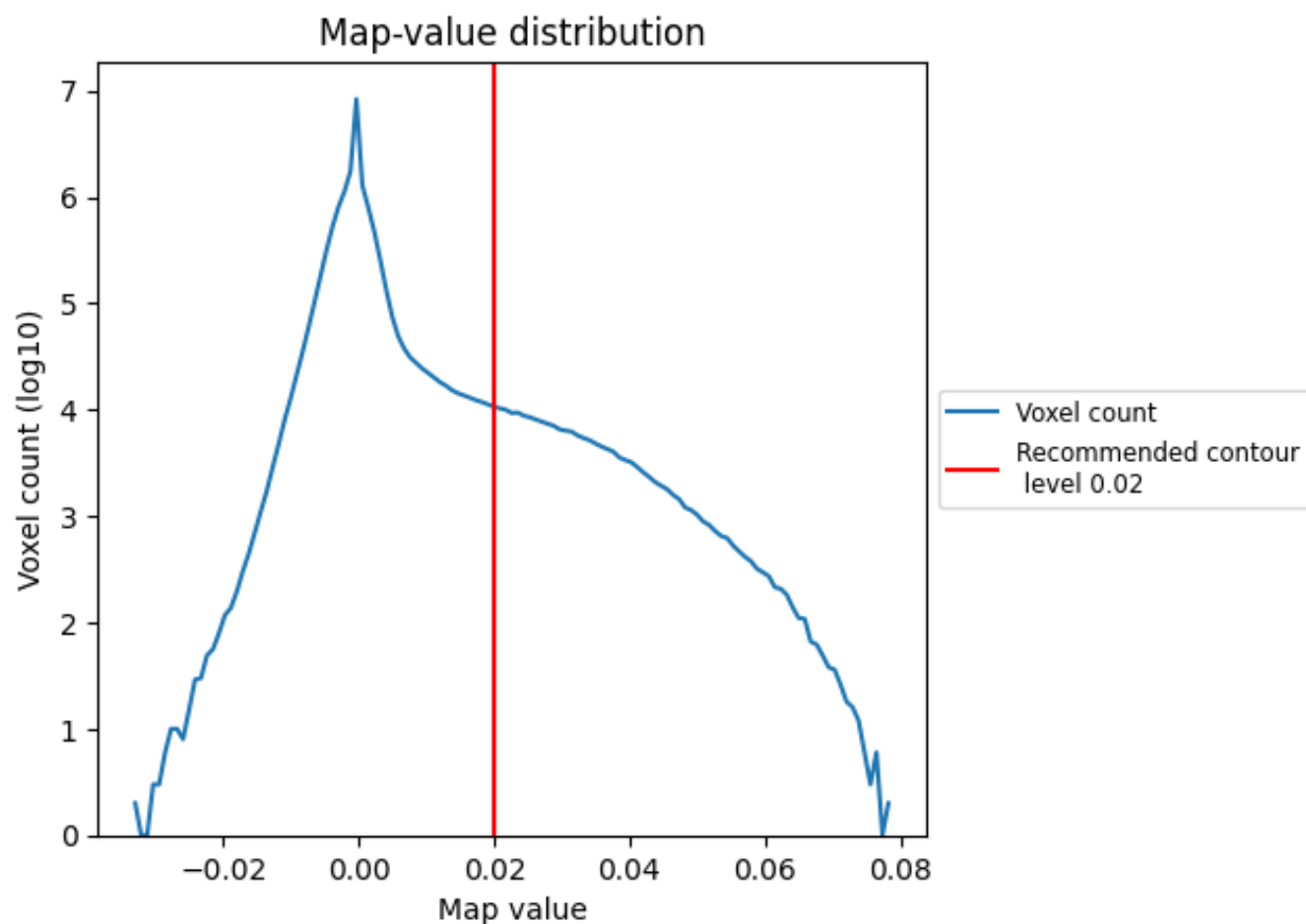
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

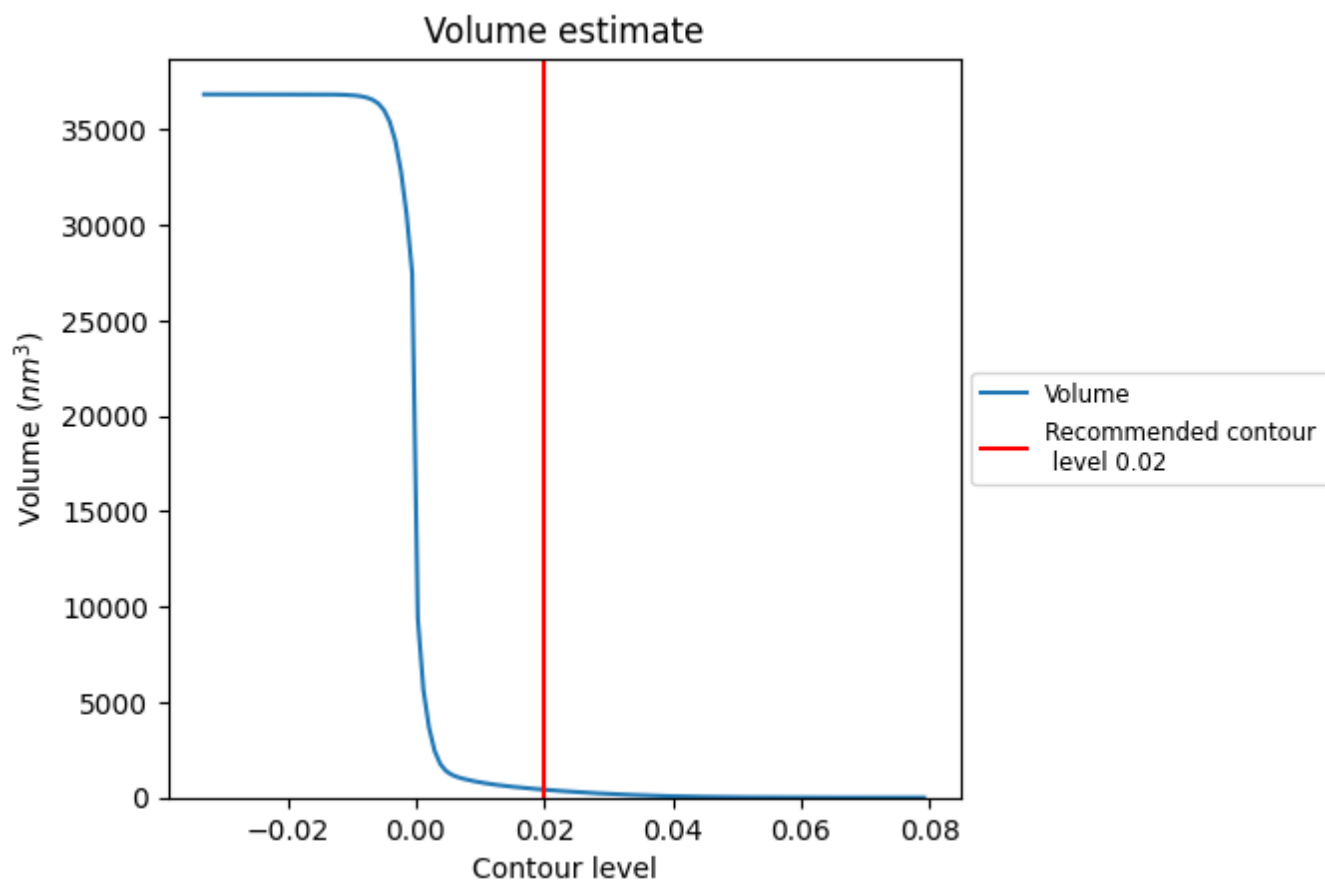
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

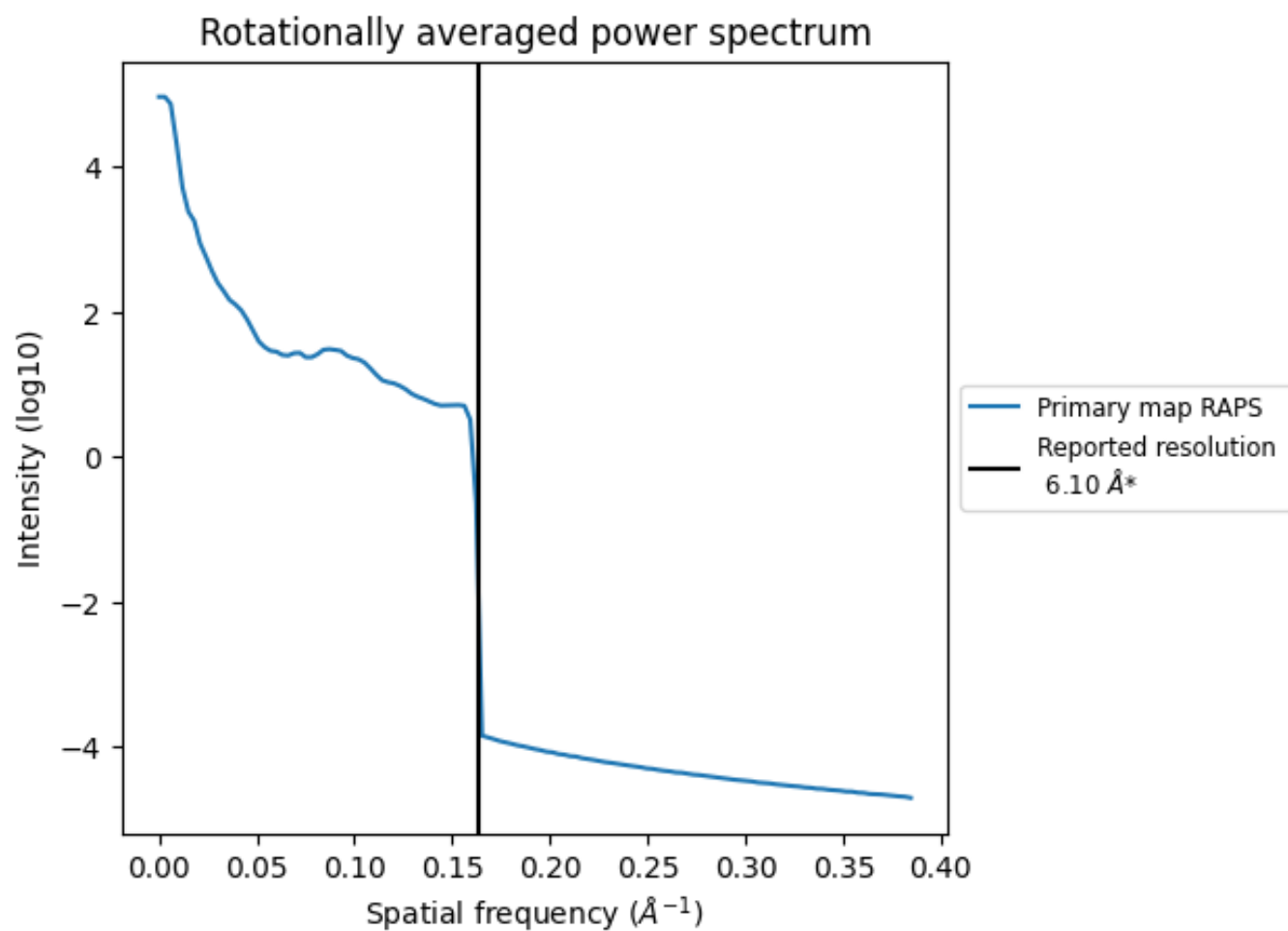
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 413 nm^3 ; this corresponds to an approximate mass of 373 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.164 Å⁻¹

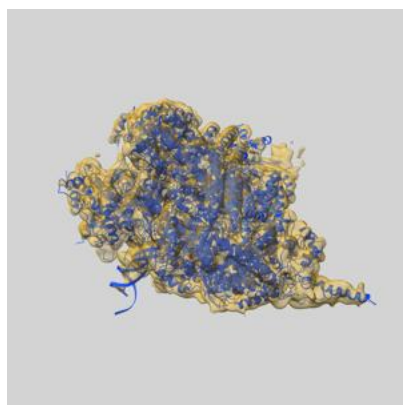
8 Fourier-Shell correlation ⓘ

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

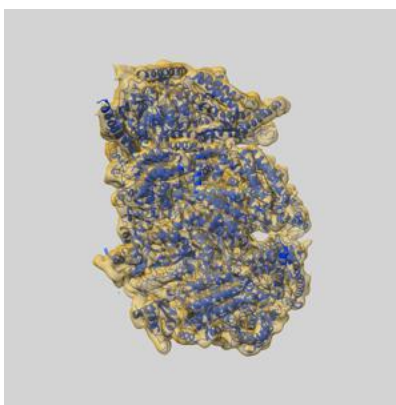
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-8518 and PDB model 5U8S. Per-residue inclusion information can be found in section [3](#) on page [7](#).

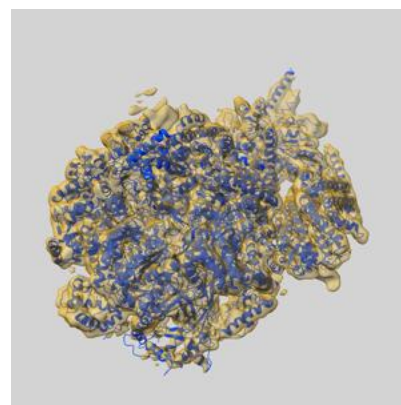
9.1 Map-model overlay [i](#)



X



Y



Z

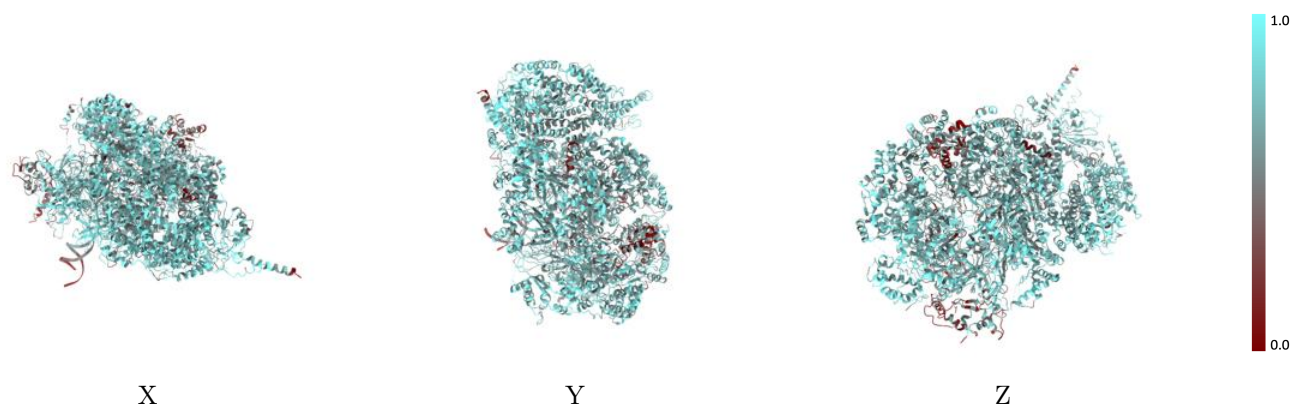
The images above show the 3D surface view of the map at the recommended contour level 0.02 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



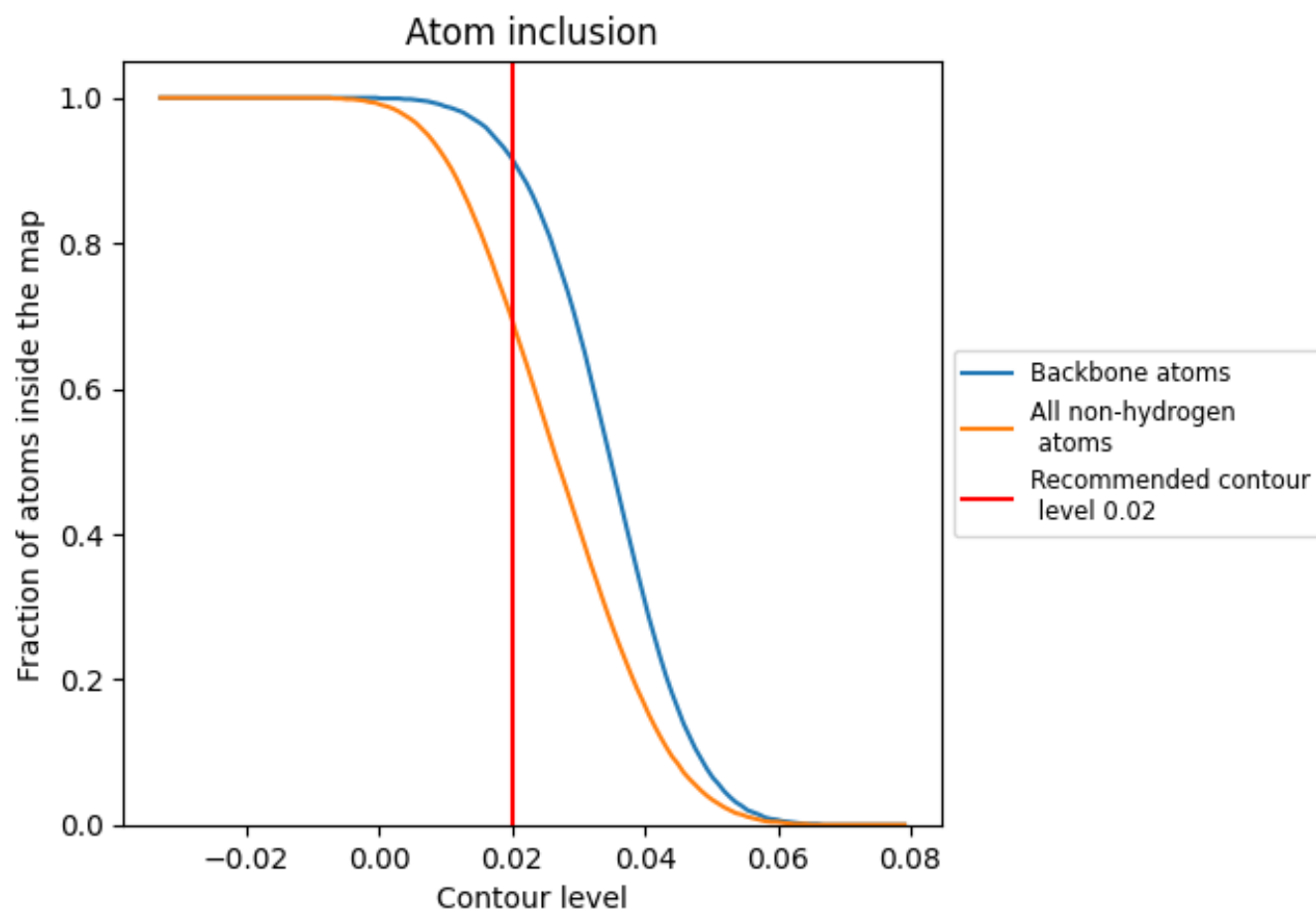
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.02).

9.4 Atom inclusion ⓘ



At the recommended contour level, 92% of all backbone atoms, 70% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.02) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.6950	0.1990
2	0.7040	0.1990
3	0.7180	0.2070
4	0.6650	0.1880
5	0.6780	0.2030
6	0.7040	0.2020
7	0.6110	0.1920
A	0.6950	0.1880
B	0.7560	0.2070
C	0.7590	0.2000
D	0.7850	0.1990
E	0.7560	0.2010
F	0.5390	0.2370
G	0.4840	0.2260

1.0

0.0

<0.0