



Full wwPDB EM Validation Report ⓘ

Mar 27, 2026 – 05:55 PM UTC

PDB ID : 6R7N / pdb_00006r7n
EMDB ID : EMD-4744
Title : Structural basis of Cullin-2 RING E3 ligase regulation by the COP9 signalosome
Authors : Faull, S.V.; Lau, A.M.C.; Martens, C.; Ahdash, Z.; Yebenes, H.; Schmidt, C.; Beuron, F.; Cronin, N.B.; Morris, E.P.; Politis, A.
Deposited on : 2019-03-29
Resolution : 6.50 Å(reported)

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

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

A user guide is available at

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

The types of validation reports are described at

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

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

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

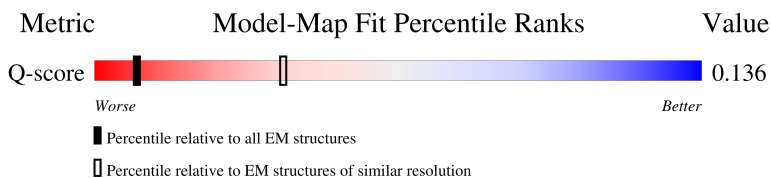
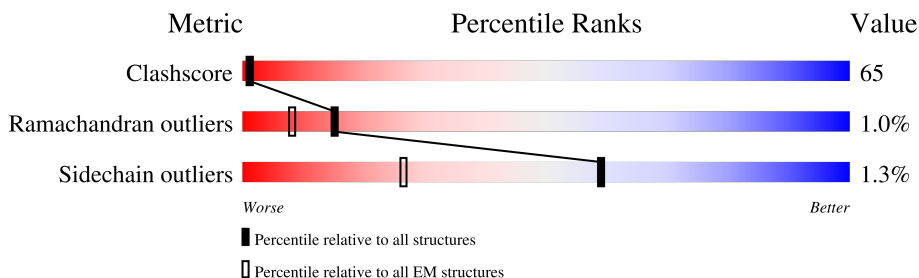
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 6.50 Å.

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



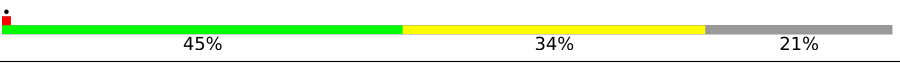
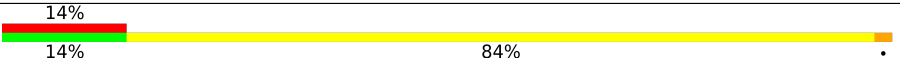
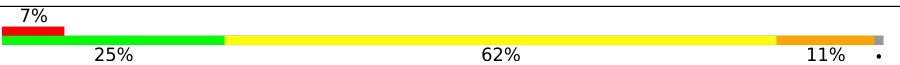
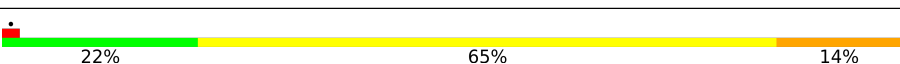
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	556 (6.00 - 7.00)

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	491	
2	D	406	
3	H	199	
4	P	104	

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Mol	Chain	Length	Quality of chain
5	Q	112	
6	R	86	
7	C	401	
8	G	215	
9	O	745	
10	B	443	

2 Entry composition

There are 11 unique types of molecules in this entry. The entry contains 24672 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 COP9 signalosome complex subunit 1.

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

- Molecule 2 is a protein called COP9 signalosome complex subunit 4.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	D	406	Total	C	N	O	S	0	0
			3251	2047	566	622	16		

- Molecule 3 is a protein called COP9 signalosome complex subunit 8.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	H	169	Total	C	N	O	S	0	0
			1347	866	233	244	4		

- Molecule 4 is a protein called Elongin-B.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	P	104	Total	C	N	O	S	0	0
			822	520	138	159	5		

- Molecule 5 is a protein called Elongin-C.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	Q	88	Total	C	N	O	S	0	0
			698	450	112	130	6		

- Molecule 6 is a protein called RBX1 E3 ubiquitin-protein ligase.

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

- Molecule 7 is a protein called COP9 signalosome complex subunit 3.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	C	401	Total	C	N	O	S	0	0
			3191	2032	535	598	26		

- Molecule 8 is a protein called CSN7B_HUMAN.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	G	215	Total	C	N	O	S	0	0
			1678	1060	283	328	7		

- Molecule 9 is a protein called Cullin-2.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	O	734	Total	C	N	O	S	0	0
			6020	3824	1021	1129	46		

- Molecule 10 is a protein called COP9 signalosome complex subunit 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	B	443	Total	C	N	O	S	0	0
			3624	2287	610	708	19		

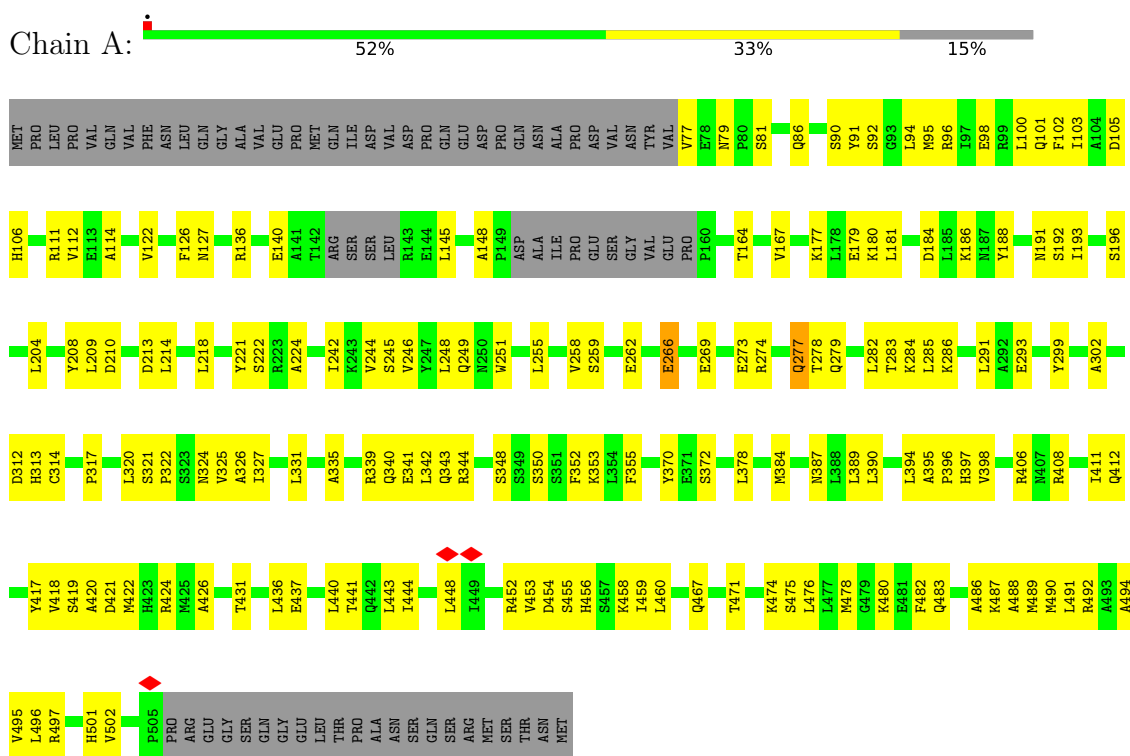
- Molecule 11 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		AltConf
11	R	3	Total	Zn	0
			3	3	

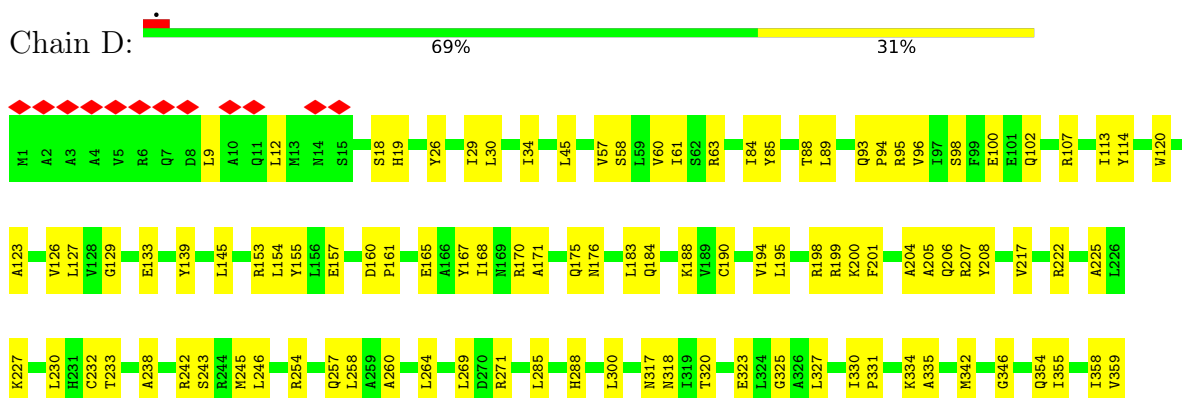
3 Residue-property plots

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.

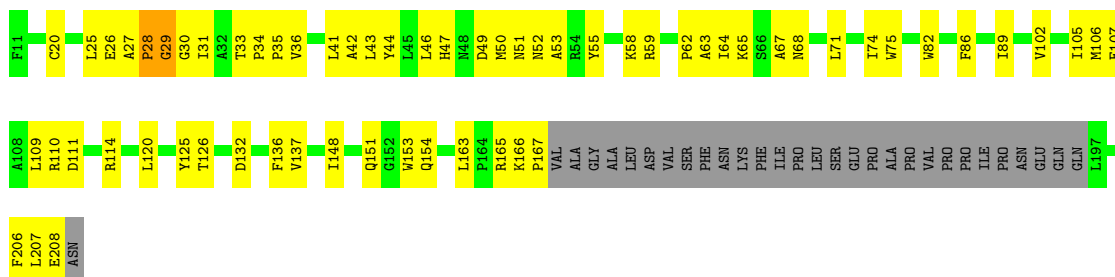
• Molecule 1: COP9 signalosome complex subunit 1



• Molecule 2: COP9 signalosome complex subunit 4



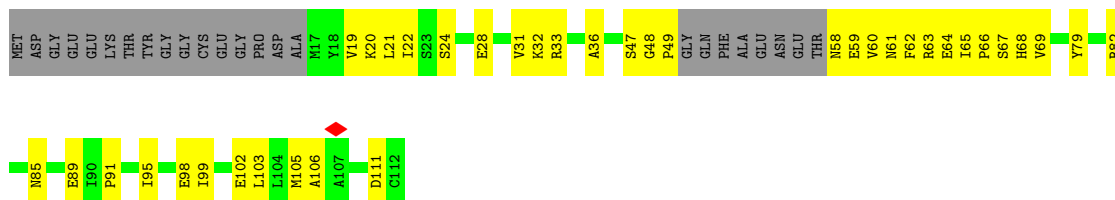
- Molecule 3: COP9 signalosome complex subunit 8



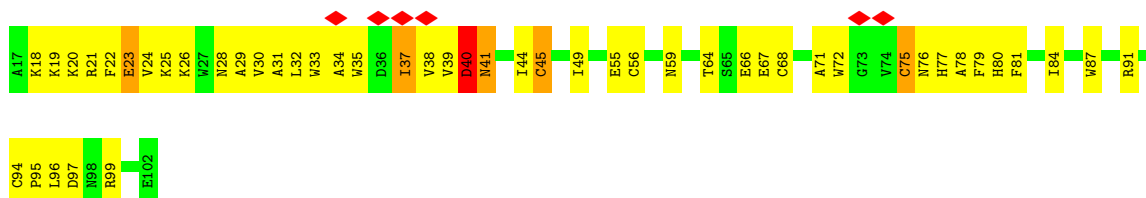
- Molecule 4: Elongin-B



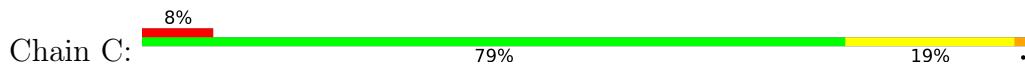
- Molecule 5: Elongin-C

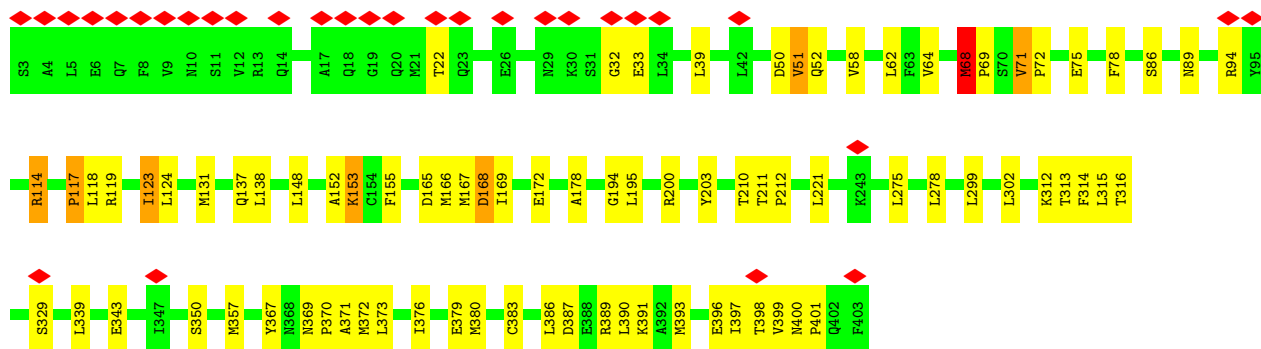


- Molecule 6: RBX1 E3 ubiquitin-protein ligase

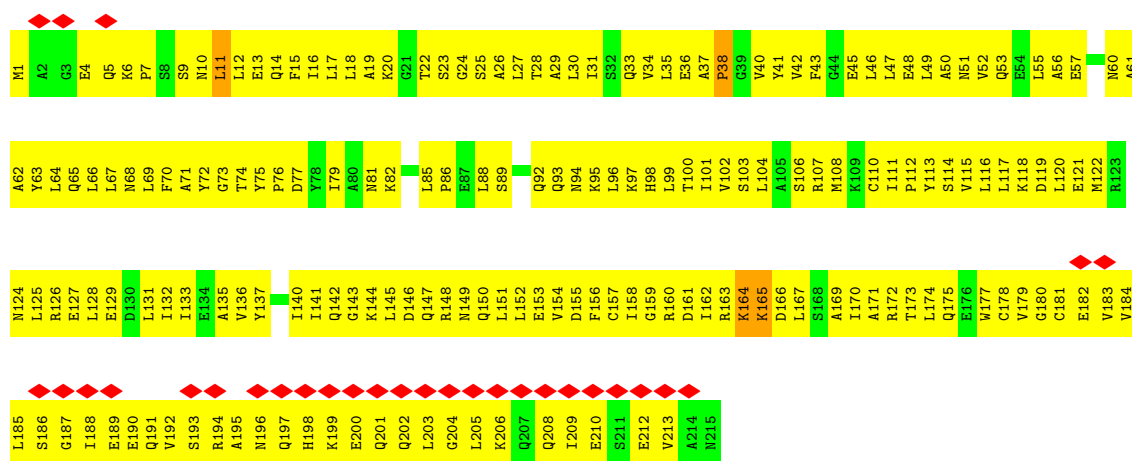


- Molecule 7: COP9 signalosome complex subunit 3

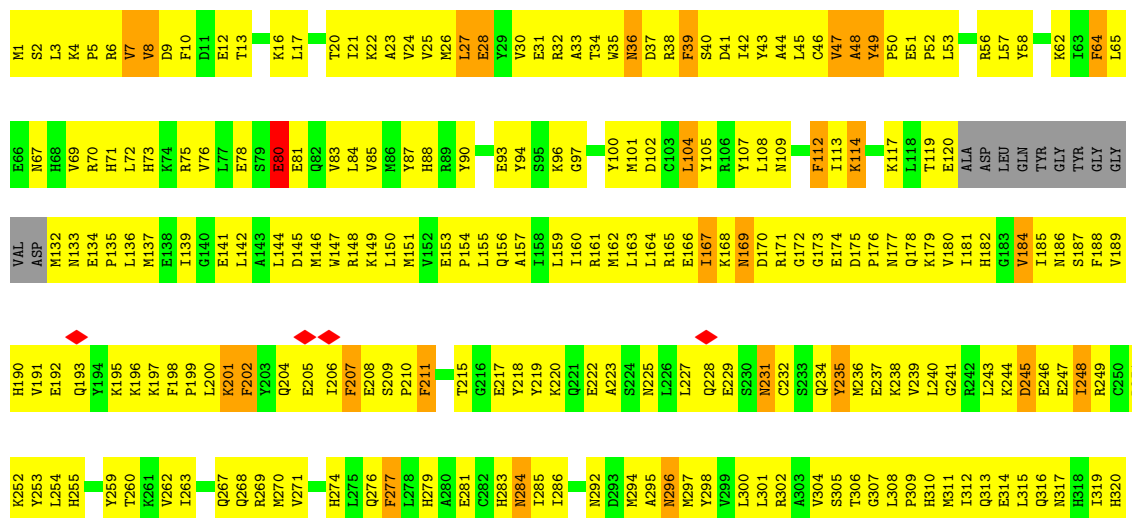


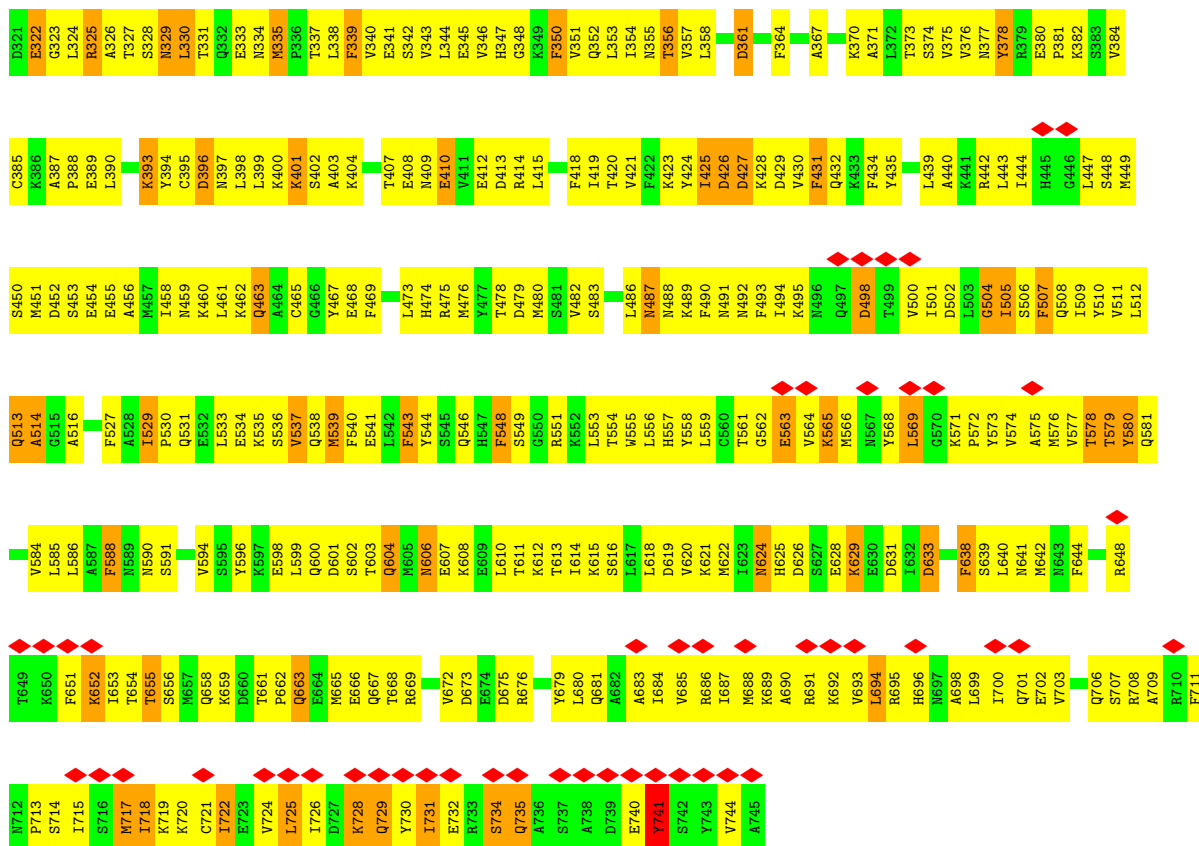


• Molecule 8: CSN7B_HUMAN

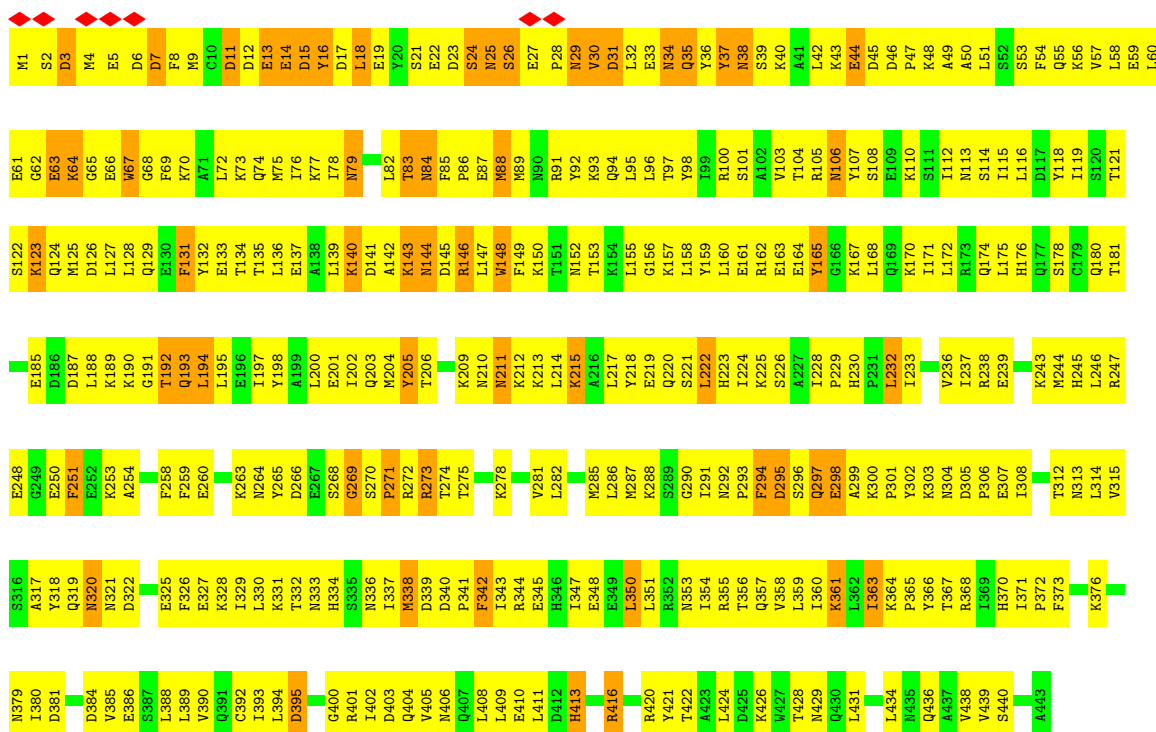


• Molecule 9: Cullin-2





• Molecule 10: COP9 signalosome complex subunit 2



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	22471	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 ($e^-/\text{\AA}^2$)	45	Depositor
Minimum defocus (nm)	1800	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	19.607	Depositor
Minimum map value	-7.097	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	3.65	Depositor
Map size (Å)	317.99997, 317.99997, 317.99997	wwPDB
Map dimensions	300, 300, 300	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.06, 1.06, 1.06	Depositor

5 Model quality

5.1 Standard geometry

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

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.29	0/3404	0.74	0/4588
2	D	0.29	0/3302	0.68	0/4457
3	H	0.29	0/1380	0.76	0/1877
4	P	0.27	0/838	0.75	2/1132 (0.2%)
5	Q	0.31	0/713	0.79	0/962
6	R	1.73	1/706 (0.1%)	1.13	5/955 (0.5%)
7	C	0.65	1/3249 (0.0%)	0.87	8/4387 (0.2%)
8	G	0.28	0/1697	0.65	0/2293
9	O	1.28	1/6135 (0.0%)	1.74	135/8258 (1.6%)
10	B	1.29	1/3685 (0.0%)	1.75	81/4958 (1.6%)
All	All	0.90	4/25109 (0.0%)	1.25	231/33867 (0.7%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	2
2	D	0	2
3	H	0	1
4	P	0	1
6	R	0	4
7	C	0	2
8	G	0	2
10	B	0	2
All	All	0	16

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	R	40	ASP	C-N	45.01	1.96	1.33
7	C	387	ASP	C-N	12.01	1.49	1.33
10	B	413	HIS	C-N	10.74	1.51	1.33
9	O	661	THR	N-CA	-5.62	1.42	1.46

All (231) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	B	67	TRP	CA-CB-CG	-15.54	84.08	113.60
6	R	40	ASP	CA-C-N	14.22	148.71	121.54
6	R	40	ASP	C-N-CA	14.22	148.71	121.54
9	O	8	VAL	N-CA-C	11.37	121.33	110.30
10	B	413	HIS	CA-C-N	-10.56	109.12	122.84
10	B	413	HIS	C-N-CA	-10.56	109.12	122.84
10	B	294	PHE	CA-CB-CG	-10.49	103.31	113.80
9	O	543	PHE	CA-CB-CG	-10.26	103.54	113.80
10	B	251	PHE	CA-CB-CG	-10.22	103.58	113.80
9	O	655	THR	CA-C-N	10.09	139.86	121.70
9	O	655	THR	C-N-CA	10.09	139.86	121.70
10	B	84	ASN	CA-C-N	9.99	146.17	121.80
10	B	84	ASN	C-N-CA	9.99	146.17	121.80
9	O	537	VAL	N-CA-C	9.46	119.35	110.74
9	O	427	ASP	CA-CB-CG	-8.79	103.81	112.60
10	B	342	PHE	CA-CB-CG	-8.72	105.08	113.80
9	O	569	LEU	CB-CA-C	-8.56	99.27	111.85
10	B	84	ASN	N-CA-C	8.46	121.24	110.33
9	O	277	PHE	CA-CB-CG	-8.33	105.47	113.80
9	O	410	GLU	N-CA-C	-8.30	102.19	111.82
9	O	493	PHE	CA-CB-CG	-8.13	105.67	113.80
10	B	131	PHE	CA-CB-CG	-8.10	105.70	113.80
9	O	350	PHE	CA-CB-CG	-8.09	105.71	113.80
10	B	26	SER	N-CA-C	-8.03	102.53	111.28
9	O	39	PHE	CA-CB-CG	-8.01	105.79	113.80
9	O	427	ASP	N-CA-C	7.99	121.88	112.93
10	B	232	LEU	CA-C-N	7.94	133.81	121.19
10	B	232	LEU	C-N-CA	7.94	133.81	121.19
7	C	68	MET	CA-C-N	7.92	129.74	119.84
7	C	68	MET	C-N-CA	7.92	129.74	119.84
9	O	202	PHE	CA-CB-CG	-7.85	105.95	113.80
9	O	654	THR	N-CA-C	7.70	120.24	109.15
9	O	590	ASN	CA-CB-CG	-7.66	104.94	112.60
9	O	690	ALA	N-CA-C	7.63	119.24	111.07
9	O	48	ALA	N-CA-C	7.59	120.62	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	O	425	ILE	CA-C-N	7.58	136.11	122.38
9	O	425	ILE	C-N-CA	7.58	136.11	122.38
10	B	13	GLU	CA-C-N	-7.55	108.83	120.31
10	B	13	GLU	C-N-CA	-7.55	108.83	120.31
10	B	24	SER	CA-C-N	-7.55	110.76	122.08
10	B	24	SER	C-N-CA	-7.55	110.76	122.08
10	B	79	ASN	CA-CB-CG	-7.52	105.08	112.60
9	O	516	ALA	N-CA-C	7.50	121.68	112.23
9	O	505	ILE	N-CA-C	-7.46	98.69	109.29
9	O	201	LYS	N-CA-C	7.38	119.33	111.28
9	O	644	PHE	CA-CB-CG	-7.16	106.64	113.80
9	O	248	ILE	CB-CA-C	-7.12	102.85	111.97
10	B	211	ASN	CA-CB-CG	-7.08	105.52	112.60
9	O	588	PHE	CA-CB-CG	-7.03	106.77	113.80
9	O	317	ASN	CA-CB-CG	-7.02	105.58	112.60
9	O	652	LYS	CA-C-N	6.96	132.26	120.29
9	O	652	LYS	C-N-CA	6.96	132.26	120.29
10	B	298	GLU	N-CA-C	6.93	120.22	111.69
4	P	98	GLU	CA-C-N	6.92	138.67	121.80
4	P	98	GLU	C-N-CA	6.92	138.67	121.80
7	C	387	ASP	CA-C-N	-6.86	111.09	120.28
7	C	387	ASP	C-N-CA	-6.86	111.09	120.28
10	B	295	ASP	CA-CB-CG	-6.75	105.85	112.60
9	O	104	LEU	CA-C-N	6.75	131.99	120.72
9	O	104	LEU	C-N-CA	6.75	131.99	120.72
10	B	192	THR	CA-C-N	6.71	132.77	122.24
10	B	192	THR	C-N-CA	6.71	132.77	122.24
9	O	690	ALA	CA-C-N	-6.69	113.56	122.99
9	O	690	ALA	C-N-CA	-6.69	113.56	122.99
9	O	624	ASN	CA-CB-CG	-6.67	105.93	112.60
10	B	11	ASP	CA-CB-CG	-6.66	105.94	112.60
10	B	14	GLU	CB-CA-C	6.65	123.43	110.67
9	O	694	LEU	CB-CA-C	-6.64	96.01	111.09
9	O	718	ILE	CB-CA-C	-6.60	103.56	111.81
9	O	741	TYR	CA-CB-CG	-6.59	102.05	113.90
9	O	112	PHE	N-CA-C	6.57	121.42	113.41
10	B	44	GLU	N-CA-C	-6.56	105.23	113.23
10	B	165	TYR	CA-CB-CG	-6.49	102.22	113.90
9	O	638	PHE	CA-CB-CG	-6.48	107.32	113.80
9	O	334	ASN	CA-CB-CG	-6.42	106.18	112.60
9	O	339	PHE	CA-CB-CG	-6.40	107.40	113.80
10	B	258	PHE	CA-CB-CG	-6.38	107.42	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	B	83	THR	CA-C-N	6.34	132.25	120.95
10	B	83	THR	C-N-CA	6.34	132.25	120.95
10	B	17	ASP	CA-CB-CG	-6.33	106.27	112.60
9	O	715	ILE	N-CA-C	6.32	117.89	111.00
10	B	38	ASN	CA-CB-CG	-6.32	106.28	112.60
10	B	193	GLN	CA-C-N	6.30	133.57	121.54
10	B	193	GLN	C-N-CA	6.30	133.57	121.54
9	O	631	ASP	CA-CB-CG	-6.30	106.30	112.60
10	B	297	GLN	CA-C-N	6.27	131.30	120.58
10	B	297	GLN	C-N-CA	6.27	131.30	120.58
9	O	292	ASN	CA-CB-CG	-6.26	106.34	112.60
10	B	29	ASN	CA-C-N	6.26	133.23	121.97
10	B	29	ASN	C-N-CA	6.26	133.23	121.97
10	B	34	ASN	CA-CB-CG	-6.25	106.35	112.60
6	R	38	VAL	CA-C-N	6.23	132.92	121.70
6	R	38	VAL	C-N-CA	6.23	132.92	121.70
10	B	429	ASN	CA-CB-CG	-6.23	106.37	112.60
9	O	580	TYR	N-CA-C	6.21	118.13	111.36
9	O	198	PHE	CA-CB-CG	-6.20	107.61	113.80
10	B	45	ASP	CA-C-N	-6.13	114.88	122.42
10	B	45	ASP	C-N-CA	-6.13	114.88	122.42
9	O	563	GLU	CA-C-N	-6.10	115.62	123.19
9	O	563	GLU	C-N-CA	-6.10	115.62	123.19
9	O	426	ASP	N-CA-C	6.07	120.69	113.16
9	O	47	VAL	CA-C-N	6.07	129.54	120.31
9	O	47	VAL	C-N-CA	6.07	129.54	120.31
10	B	307	GLU	CA-C-N	6.06	130.58	120.64
10	B	307	GLU	C-N-CA	6.06	130.58	120.64
9	O	626	ASP	CA-CB-CG	-6.03	106.58	112.60
9	O	426	ASP	CB-CA-C	-5.98	99.24	110.01
9	O	741	TYR	N-CA-CB	5.98	120.59	110.49
9	O	396	ASP	CA-CB-CG	-5.97	106.63	112.60
9	O	578	THR	CA-C-N	5.94	130.77	120.68
9	O	578	THR	C-N-CA	5.94	130.77	120.68
9	O	603	THR	N-CA-C	5.93	117.55	111.14
9	O	652	LYS	N-CA-C	-5.92	104.66	112.24
9	O	504	GLY	CA-C-N	5.92	129.17	122.48
9	O	504	GLY	C-N-CA	5.92	129.17	122.48
10	B	7	ASP	CA-CB-CG	-5.92	106.68	112.60
10	B	287	MET	N-CA-C	-5.91	105.34	112.54
9	O	284	ASN	CA-CB-CG	-5.89	106.71	112.60
9	O	465	CYS	CA-C-N	5.87	125.92	120.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	O	465	CYS	C-N-CA	5.87	125.92	120.34
9	O	305	SER	N-CA-C	5.86	117.47	111.14
9	O	539	MET	N-CA-C	-5.84	104.91	111.28
9	O	507	PHE	CA-CB-CG	-5.83	107.97	113.80
9	O	514	ALA	CA-C-N	5.79	126.37	120.00
9	O	514	ALA	C-N-CA	5.79	126.37	120.00
7	C	69	PRO	N-CA-C	5.79	124.39	112.47
10	B	304	ASN	CA-CB-CG	-5.77	106.83	112.60
9	O	548	PHE	CA-CB-CG	-5.77	108.03	113.80
9	O	333	GLU	N-CA-C	-5.76	105.08	111.71
9	O	167	ILE	N-CA-C	-5.75	104.75	110.62
10	B	269	GLY	CA-C-N	-5.75	115.93	123.34
10	B	269	GLY	C-N-CA	-5.75	115.93	123.34
9	O	718	ILE	N-CA-C	5.74	115.87	110.30
9	O	463	GLN	CA-C-N	5.72	131.16	121.14
9	O	463	GLN	C-N-CA	5.72	131.16	121.14
10	B	35	GLN	CB-CG-CD	-5.71	102.89	112.60
10	B	363	ILE	N-CA-C	5.70	116.47	110.72
10	B	271	PRO	CA-C-N	5.68	132.62	122.06
10	B	271	PRO	C-N-CA	5.68	132.62	122.06
10	B	421	TYR	CA-CB-CG	-5.68	103.68	113.90
9	O	431	PHE	CA-CB-CG	-5.68	108.12	113.80
9	O	317	ASN	N-CA-C	5.67	117.16	110.97
10	B	222	LEU	N-CA-C	-5.67	105.25	111.82
10	B	63	GLU	CA-C-N	5.66	128.33	120.63
10	B	63	GLU	C-N-CA	5.66	128.33	120.63
9	O	28	GLU	N-CA-CB	5.64	119.10	110.70
9	O	64	PHE	CA-CB-CG	-5.64	108.16	113.80
9	O	579	THR	N-CA-C	5.64	119.33	112.23
9	O	378	TYR	CA-CB-CG	-5.63	103.77	113.90
9	O	296	ASN	CA-CB-CG	-5.61	106.99	112.60
9	O	49	TYR	CA-C-N	5.60	126.83	119.84
9	O	49	TYR	C-N-CA	5.60	126.83	119.84
6	R	38	VAL	N-CA-C	5.59	115.79	110.53
9	O	207	PHE	N-CA-C	5.57	118.54	111.69
10	B	16	TYR	N-CA-CB	-5.55	101.96	110.01
10	B	148	TRP	CB-CA-C	-5.55	101.57	110.79
9	O	601	ASP	CA-CB-CG	-5.51	107.09	112.60
9	O	169	ASN	CA-CB-CG	-5.48	107.12	112.60
9	O	661	THR	N-CA-C	5.47	119.61	112.17
9	O	7	VAL	N-CA-C	5.47	116.96	111.00
10	B	264	ASN	CA-CB-CG	-5.46	107.14	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	O	329	ASN	CA-CB-CG	-5.46	107.14	112.60
9	O	211	PHE	CA-CB-CG	-5.45	108.35	113.80
10	B	395	ASP	CA-CB-CG	-5.45	107.15	112.60
10	B	379	ASN	CA-CB-CG	-5.44	107.16	112.60
10	B	205	TYR	CA-CB-CG	-5.44	104.11	113.90
9	O	330	LEU	CA-C-N	-5.43	114.87	123.24
9	O	330	LEU	C-N-CA	-5.43	114.87	123.24
9	O	403	ALA	N-CA-C	5.42	116.99	111.14
10	B	15	ASP	CA-C-N	5.41	127.47	120.44
10	B	15	ASP	C-N-CA	5.41	127.47	120.44
9	O	513	GLN	CA-C-N	5.41	128.53	120.31
9	O	513	GLN	C-N-CA	5.41	128.53	120.31
9	O	80	GLU	CA-C-N	5.40	129.32	120.63
9	O	80	GLU	C-N-CA	5.40	129.32	120.63
10	B	37	TYR	CA-CB-CG	-5.40	104.19	113.90
10	B	106	ASN	CA-CB-CG	-5.40	107.20	112.60
10	B	3	ASP	CA-CB-CG	-5.39	107.21	112.60
9	O	177	ASN	CA-CB-CG	-5.37	107.23	112.60
10	B	25	ASN	CA-CB-CG	-5.36	107.24	112.60
9	O	655	THR	O-C-N	-5.33	117.91	123.56
9	O	663	GLN	CB-CG-CD	-5.32	103.56	112.60
9	O	491	ASN	CA-CB-CG	-5.29	107.31	112.60
10	B	273	ARG	CB-CA-C	-5.29	102.34	110.81
9	O	235	TYR	CA-CB-CG	-5.29	104.38	113.90
10	B	294	PHE	CA-C-N	5.28	131.63	121.54
10	B	294	PHE	C-N-CA	5.28	131.63	121.54
9	O	229	GLU	CA-C-N	-5.28	115.35	122.95
9	O	229	GLU	C-N-CA	-5.28	115.35	122.95
10	B	313	ASN	CA-CB-CG	-5.27	107.33	112.60
10	B	16	TYR	N-CA-C	-5.24	105.46	111.07
9	O	655	THR	CA-C-O	-5.24	114.88	120.75
9	O	307	GLY	N-CA-C	5.23	119.46	112.77
9	O	606	ASN	CA-CB-CG	-5.23	107.37	112.60
9	O	734	SER	N-CA-C	-5.22	105.67	111.36
10	B	64	LYS	N-CA-CB	-5.21	102.43	109.98
9	O	492	ASN	CA-CB-CG	-5.20	107.40	112.60
9	O	306	THR	N-CA-C	5.20	119.25	113.01
10	B	31	ASP	CB-CA-C	-5.19	101.78	110.56
9	O	36	ASN	CA-CB-CG	-5.19	107.41	112.60
9	O	424	TYR	CA-CB-CG	-5.19	104.56	113.90
9	O	335	MET	N-CA-C	-5.18	103.12	109.65
9	O	619	ASP	CA-CB-CG	-5.17	107.43	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	O	731	ILE	CA-C-N	-5.17	115.43	122.93
9	O	731	ILE	C-N-CA	-5.17	115.43	122.93
9	O	184	VAL	N-CA-CB	5.17	118.33	110.58
9	O	393	LYS	CB-CA-C	-5.14	102.25	110.79
9	O	487	ASN	CA-CB-CG	-5.14	107.46	112.60
9	O	322	GLU	N-CA-C	-5.13	105.86	111.82
10	B	88	MET	N-CA-C	-5.13	105.58	111.07
9	O	245	ASP	CA-CB-CG	-5.12	107.48	112.60
9	O	633	ASP	CA-CB-CG	-5.12	107.48	112.60
9	O	722	ILE	CB-CA-C	-5.11	105.43	111.81
10	B	49	ALA	CA-C-N	5.11	131.53	121.58
10	B	49	ALA	C-N-CA	5.11	131.53	121.58
9	O	488	ASN	CA-CB-CG	-5.09	107.51	112.60
7	C	369	ASN	CA-C-N	-5.08	113.80	119.19
7	C	369	ASN	C-N-CA	-5.08	113.80	119.19
10	B	339	ASP	CA-CB-CG	-5.06	107.54	112.60
10	B	67	TRP	CB-CG-CD2	-5.05	119.73	126.80
9	O	498	ASP	CA-CB-CG	-5.03	107.57	112.60
7	C	68	MET	N-CA-C	5.03	120.92	109.81
9	O	177	ASN	CA-C-N	5.03	127.95	120.31
9	O	177	ASN	C-N-CA	5.03	127.95	120.31
9	O	565	LYS	CA-C-N	-5.02	115.41	122.94
9	O	565	LYS	C-N-CA	-5.02	115.41	122.94
9	O	459	ASN	CA-CB-CG	-5.01	107.59	112.60
9	O	325	ARG	CA-C-N	5.00	126.99	120.28
9	O	325	ARG	C-N-CA	5.00	126.99	120.28
9	O	725	LEU	CA-C-N	5.00	128.95	120.64
9	O	725	LEU	C-N-CA	5.00	128.95	120.64

There are no chirality outliers.

All (16) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	266	GLU	Peptide
1	A	277	GLN	Peptide
10	B	123	LYS	Peptide
10	B	191	GLY	Peptide
7	C	68	MET	Mainchain,Peptide
2	D	133	GLU	Peptide
2	D	58	SER	Peptide
8	G	164	LYS	Peptide
8	G	165	LYS	Peptide

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Mol	Chain	Res	Type	Group
3	H	28	PRO	Peptide
4	P	79	PHE	Peptide
6	R	23	GLU	Peptide
6	R	37	ILE	Peptide
6	R	45	CYS	Peptide
6	R	75	CYS	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	3348	0	3384	300	0
2	D	3251	0	3246	230	0
3	H	1347	0	1337	177	0
4	P	822	0	824	21	0
5	Q	698	0	697	211	0
6	R	690	0	655	178	0
7	C	3191	0	3206	296	0
8	G	1678	0	1709	536	0
9	O	6020	0	6008	1401	0
10	B	3624	0	3599	808	0
11	R	3	0	0	0	0
All	All	24672	0	24665	3200	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 65.

All (3200) 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)
6:R:35:TRP:CE3	9:O:514:ALA:HB1	1.16	1.66
9:O:163:LEU:HD13	9:O:185:ILE:CD1	1.20	1.63
9:O:155:LEU:CD1	9:O:187:SER:HB3	1.25	1.60
1:A:495:VAL:HG12	7:C:169:ILE:CD1	1.18	1.60
9:O:456:ALA:CB	10:B:188:LEU:HD12	1.18	1.59
9:O:565:LYS:CE	10:B:13:GLU:HG3	1.17	1.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:64:GLU:HG3	9:O:49:TYR:CA	1.31	1.59
5:Q:47:SER:CB	9:O:39:PHE:HE2	1.16	1.58
9:O:456:ALA:HB2	10:B:188:LEU:CD1	1.30	1.58
9:O:155:LEU:HD11	9:O:187:SER:CB	1.23	1.58
1:A:495:VAL:CG1	7:C:169:ILE:HD11	1.19	1.58
6:R:22:PHE:HD1	9:O:577:VAL:CG2	1.11	1.57
3:H:55:TYR:HD1	7:C:153:LYS:CD	1.04	1.56
9:O:84:LEU:CA	9:O:180:VAL:HG13	1.33	1.56
5:Q:69:VAL:CG2	9:O:1:MET:HG2	1.30	1.55
3:H:25:LEU:HD21	7:C:118:LEU:CG	1.26	1.55
6:R:35:TRP:CD2	9:O:514:ALA:HB1	1.44	1.53
3:H:25:LEU:CD2	7:C:118:LEU:CG	1.78	1.53
3:H:208:GLU:C	10:B:422:THR:HB	1.11	1.53
9:O:565:LYS:HE2	10:B:13:GLU:CG	1.04	1.50
1:A:478:MET:CE	10:B:426:LYS:CE	1.87	1.49
6:R:33:TRP:CH2	6:R:34:ALA:N	1.81	1.49
5:Q:65:ILE:CG1	9:O:49:TYR:HE1	1.25	1.48
2:D:271:ARG:NH2	8:G:137:TYR:CE2	1.80	1.46
3:H:25:LEU:HD21	7:C:118:LEU:CD2	1.00	1.46
5:Q:47:SER:HB3	9:O:39:PHE:CE2	1.50	1.46
3:H:25:LEU:HD22	7:C:118:LEU:CB	1.44	1.46
6:R:33:TRP:CZ3	6:R:34:ALA:N	1.83	1.45
6:R:35:TRP:CD2	9:O:514:ALA:CB	2.00	1.45
9:O:407:THR:HG23	10:B:100:ARG:NH1	1.24	1.45
6:R:22:PHE:CD1	9:O:577:VAL:CG2	2.00	1.44
6:R:35:TRP:CE3	9:O:514:ALA:CB	2.00	1.44
9:O:85:VAL:N	9:O:180:VAL:HG22	1.30	1.43
5:Q:47:SER:CB	9:O:39:PHE:CE2	1.98	1.43
5:Q:66:PRO:CG	9:O:3:LEU:N	1.82	1.43
5:Q:66:PRO:CD	9:O:3:LEU:H	1.30	1.43
5:Q:61:ASN:O	9:O:46:CYS:SG	1.03	1.42
9:O:144:LEU:CD1	9:O:196:LYS:NZ	1.80	1.42
9:O:170:ASP:CA	9:O:249:ARG:HE	1.33	1.42
9:O:155:LEU:CD1	9:O:187:SER:CB	1.80	1.42
1:A:424:ARG:NH1	10:B:405:VAL:HA	1.12	1.41
2:D:61:ILE:CG1	9:O:598:GLU:OE2	1.68	1.41
2:D:392:ALA:CB	8:G:162:ILE:HG13	1.50	1.41
9:O:170:ASP:N	9:O:249:ARG:CD	1.82	1.41
3:H:55:TYR:CD1	7:C:153:LYS:HD2	0.89	1.41
5:Q:65:ILE:CG1	9:O:49:TYR:CE1	2.02	1.41
6:R:22:PHE:CD2	9:O:581:GLN:HG3	1.55	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:66:PRO:HG3	9:O:3:LEU:CA	1.50	1.40
9:O:565:LYS:HE2	10:B:13:GLU:CB	1.51	1.40
1:A:424:ARG:HH12	10:B:405:VAL:CA	1.33	1.40
2:D:394:GLU:CG	8:G:48:GLU:H	1.34	1.40
9:O:564:VAL:CG2	10:B:16:TYR:OH	1.68	1.40
1:A:478:MET:CE	10:B:426:LYS:HE3	0.91	1.39
9:O:84:LEU:CG	9:O:180:VAL:CG1	1.97	1.39
1:A:478:MET:HE1	10:B:426:LYS:CE	1.45	1.38
9:O:144:LEU:HD13	9:O:196:LYS:NZ	1.09	1.38
3:H:25:LEU:CD2	7:C:118:LEU:HD23	1.53	1.38
1:A:494:ALA:HB1	7:C:168:ASP:N	1.37	1.37
5:Q:61:ASN:CB	9:O:43:TYR:HA	1.53	1.37
6:R:21:ARG:NH1	9:O:585:LEU:CD2	1.87	1.37
5:Q:64:GLU:HG2	9:O:49:TYR:CD1	1.58	1.37
5:Q:69:VAL:HG23	9:O:1:MET:CG	1.53	1.37
3:H:55:TYR:CD1	7:C:153:LYS:CD	1.83	1.36
5:Q:69:VAL:N	9:O:1:MET:SD	1.98	1.36
9:O:163:LEU:CD1	9:O:185:ILE:CD1	2.01	1.36
5:Q:62:PHE:HE1	9:O:107:TYR:CD1	1.43	1.36
5:Q:61:ASN:HD22	9:O:43:TYR:N	1.21	1.36
9:O:163:LEU:CD1	9:O:185:ILE:HD13	1.54	1.35
9:O:166:GLU:CD	9:O:181:ILE:CD1	1.99	1.35
9:O:170:ASP:CA	9:O:249:ARG:NE	1.88	1.35
6:R:21:ARG:HH12	9:O:585:LEU:CD2	1.38	1.35
9:O:144:LEU:CD1	9:O:196:LYS:HZ1	1.33	1.34
9:O:407:THR:CG2	10:B:100:ARG:NH1	1.91	1.33
9:O:170:ASP:HA	9:O:249:ARG:NE	1.36	1.33
5:Q:61:ASN:ND2	9:O:43:TYR:CA	1.91	1.33
1:A:419:SER:HB3	10:B:403:ASP:CG	1.49	1.33
3:H:25:LEU:CD1	7:C:118:LEU:HG	1.59	1.32
2:D:377:LEU:HD21	8:G:177:TRP:CH2	1.64	1.32
3:H:206:PHE:CB	7:C:380:MET:HE2	1.57	1.32
2:D:392:ALA:N	8:G:162:ILE:HG13	1.41	1.32
3:H:59:ARG:NH1	7:C:152:ALA:HB1	1.41	1.32
3:H:208:GLU:C	10:B:422:THR:CB	2.03	1.31
9:O:85:VAL:HG23	9:O:180:VAL:CG2	1.60	1.31
5:Q:65:ILE:HG13	9:O:49:TYR:CE1	1.64	1.31
2:D:386:GLU:HA	8:G:4:GLU:OE1	1.21	1.31
2:D:380:GLN:CG	8:G:156:PHE:HE1	1.42	1.30
9:O:85:VAL:CG2	9:O:180:VAL:CG2	2.08	1.30
2:D:377:LEU:CD2	8:G:177:TRP:HH2	1.44	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:61:ASN:ND2	9:O:43:TYR:HB2	1.45	1.29
2:D:392:ALA:CA	8:G:162:ILE:HG13	1.63	1.29
5:Q:61:ASN:ND2	9:O:43:TYR:CB	1.94	1.29
9:O:452:ASP:O	10:B:188:LEU:HD21	1.27	1.29
2:D:394:GLU:N	8:G:46:LEU:N	1.78	1.28
2:D:394:GLU:H	8:G:46:LEU:N	1.29	1.28
5:Q:68:HIS:CE1	9:O:1:MET:HB3	1.67	1.28
6:R:22:PHE:HA	9:O:577:VAL:CG1	1.60	1.28
9:O:169:ASN:C	9:O:249:ARG:NE	1.91	1.28
2:D:271:ARG:NH2	8:G:137:TYR:CD2	1.90	1.27
7:C:399:VAL:HG12	7:C:400:ASN:OD1	1.29	1.27
9:O:169:ASN:O	9:O:249:ARG:CZ	1.80	1.27
9:O:565:LYS:CD	10:B:13:GLU:HG3	1.63	1.27
6:R:19:LYS:HD3	9:O:569:LEU:CD1	1.60	1.27
9:O:170:ASP:N	9:O:249:ARG:NE	1.79	1.27
9:O:565:LYS:CE	10:B:9:MET:O	1.82	1.26
5:Q:62:PHE:HE1	9:O:107:TYR:CE1	1.53	1.26
2:D:323:GLU:OE2	8:G:125:LEU:CG	1.82	1.25
3:H:25:LEU:CD2	7:C:118:LEU:CB	2.07	1.25
2:D:394:GLU:OE1	8:G:43:PHE:O	1.53	1.25
2:D:269:LEU:HB3	8:G:137:TYR:OH	1.26	1.25
5:Q:69:VAL:CG2	9:O:1:MET:CG	2.12	1.25
5:Q:61:ASN:C	9:O:46:CYS:SG	2.17	1.25
1:A:489:MET:CE	7:C:390:LEU:HD21	1.66	1.25
3:H:59:ARG:HH11	7:C:152:ALA:CB	1.50	1.25
5:Q:62:PHE:CE1	9:O:107:TYR:CE1	2.24	1.25
3:H:52:ASN:OD1	7:C:155:PHE:CD2	1.89	1.24
3:H:206:PHE:HB2	7:C:380:MET:CE	1.66	1.24
2:D:392:ALA:HB2	8:G:42:VAL:O	1.26	1.23
9:O:163:LEU:HD21	9:O:181:ILE:O	1.28	1.23
9:O:166:GLU:O	9:O:249:ARG:HD3	1.39	1.23
9:O:408:GLU:CG	10:B:105:ARG:CZ	2.16	1.23
9:O:84:LEU:CG	9:O:180:VAL:HG12	1.65	1.23
2:D:392:ALA:N	8:G:162:ILE:CG1	2.02	1.23
3:H:25:LEU:CD2	7:C:118:LEU:HB3	1.69	1.23
6:R:40:ASP:C	6:R:41:ASN:N	1.96	1.22
6:R:22:PHE:CA	9:O:577:VAL:HG11	1.70	1.22
6:R:33:TRP:CZ2	6:R:34:ALA:N	2.06	1.22
5:Q:61:ASN:CG	9:O:43:TYR:HA	1.63	1.22
3:H:206:PHE:CG	7:C:380:MET:HE2	1.75	1.21
6:R:29:ALA:C	9:O:558:TYR:CZ	2.18	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:323:GLU:OE2	8:G:125:LEU:HG	1.05	1.21
9:O:85:VAL:CA	9:O:180:VAL:HG22	1.68	1.21
9:O:452:ASP:O	10:B:188:LEU:CD2	1.87	1.21
1:A:497:ARG:NH1	7:C:393:MET:HB3	1.53	1.21
5:Q:64:GLU:HB2	9:O:49:TYR:CD2	1.65	1.20
9:O:166:GLU:CD	9:O:181:ILE:HD13	1.64	1.20
2:D:380:GLN:HG2	8:G:156:PHE:CE1	1.61	1.20
2:D:387:LYS:CD	8:G:159:GLY:HA3	1.70	1.20
9:O:452:ASP:C	10:B:188:LEU:HD21	1.65	1.20
2:D:392:ALA:CB	8:G:42:VAL:O	1.90	1.19
9:O:84:LEU:CD2	9:O:180:VAL:HG12	1.72	1.19
6:R:33:TRP:CE3	6:R:34:ALA:N	2.09	1.19
1:A:494:ALA:CB	7:C:168:ASP:H	1.54	1.18
5:Q:64:GLU:CG	9:O:49:TYR:CG	2.26	1.18
9:O:452:ASP:O	10:B:188:LEU:HD11	1.44	1.18
1:A:456:HIS:CD2	7:C:357:MET:HG3	1.77	1.18
9:O:724:VAL:HG23	9:O:725:LEU:HD12	1.23	1.18
2:D:377:LEU:CD2	8:G:177:TRP:CH2	2.22	1.18
5:Q:61:ASN:C	9:O:46:CYS:CB	2.17	1.17
6:R:19:LYS:CD	9:O:569:LEU:HD12	1.73	1.17
5:Q:47:SER:OG	9:O:39:PHE:CE2	1.91	1.17
5:Q:65:ILE:HG22	9:O:1:MET:HG3	1.20	1.17
9:O:399:LEU:HD12	9:O:454:GLU:HG2	1.26	1.17
6:R:23:GLU:CG	9:O:564:VAL:HG11	1.74	1.17
1:A:454:ASP:CG	7:C:316:THR:OG1	1.88	1.16
6:R:22:PHE:CD1	9:O:577:VAL:HG21	1.69	1.16
5:Q:66:PRO:HG3	9:O:3:LEU:HA	1.26	1.16
1:A:417:TYR:CB	10:B:402:ILE:O	1.93	1.16
3:H:25:LEU:HB3	7:C:119:ARG:CA	1.74	1.16
5:Q:66:PRO:HD2	9:O:1:MET:CB	1.74	1.16
6:R:20:LYS:O	9:O:641:ASN:ND2	1.78	1.16
6:R:21:ARG:NH1	9:O:585:LEU:HD21	1.46	1.16
1:A:437:GLU:OE2	7:C:314:PHE:CD1	1.97	1.15
9:O:166:GLU:OE2	9:O:181:ILE:HD13	1.30	1.15
9:O:565:LYS:HE3	10:B:9:MET:O	0.99	1.15
3:H:52:ASN:OD1	7:C:155:PHE:HD2	1.22	1.15
7:C:399:VAL:C	7:C:400:ASN:OD1	1.88	1.15
9:O:574:VAL:HG21	10:B:13:GLU:CA	1.74	1.15
2:D:394:GLU:HG2	8:G:48:GLU:N	1.60	1.15
5:Q:64:GLU:CG	9:O:49:TYR:HA	1.77	1.15
5:Q:66:PRO:HD2	9:O:1:MET:HB2	1.24	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:O:574:VAL:CG2	10:B:13:GLU:HA	1.77	1.15
10:B:123:LYS:HG2	10:B:127:LEU:HG	1.28	1.14
1:A:478:MET:HE3	10:B:426:LYS:CE	1.62	1.14
6:R:22:PHE:CD1	9:O:577:VAL:HG22	1.75	1.14
6:R:66:GLU:O	10:B:297:GLN:OE1	1.63	1.14
9:O:84:LEU:CB	9:O:180:VAL:CB	2.26	1.14
9:O:512:LEU:HD22	9:O:556:LEU:HB3	1.26	1.14
1:A:417:TYR:HB3	10:B:402:ILE:O	1.45	1.14
3:H:55:TYR:CE2	7:C:155:PHE:CE2	2.35	1.14
6:R:22:PHE:HD2	9:O:581:GLN:CG	1.59	1.14
1:A:454:ASP:CB	7:C:315:LEU:HD23	1.77	1.13
2:D:394:GLU:N	8:G:45:GLU:C	1.77	1.13
1:A:454:ASP:HB2	7:C:315:LEU:HD23	1.27	1.13
5:Q:61:ASN:HD22	9:O:43:TYR:CA	1.57	1.13
1:A:437:GLU:OE2	7:C:314:PHE:CE1	2.02	1.13
2:D:317:ASN:ND2	8:G:144:LYS:HD3	1.61	1.13
5:Q:64:GLU:CG	9:O:49:TYR:CA	2.27	1.13
5:Q:69:VAL:HG21	9:O:1:MET:HG2	1.25	1.13
1:A:455:SER:OG	7:C:316:THR:C	1.90	1.13
2:D:392:ALA:N	8:G:162:ILE:CD1	2.10	1.13
5:Q:66:PRO:CD	9:O:3:LEU:N	2.03	1.12
6:R:28:ASN:HA	9:O:558:TYR:CD1	1.74	1.13
1:A:452:ARG:HB3	7:C:315:LEU:CD1	1.77	1.12
1:A:497:ARG:HH12	7:C:393:MET:CB	1.59	1.12
6:R:35:TRP:CG	9:O:514:ALA:CB	2.32	1.12
9:O:462:LYS:HE3	10:B:228:ILE:HD12	1.30	1.12
2:D:392:ALA:CB	8:G:162:ILE:CG1	2.25	1.12
5:Q:62:PHE:CE1	9:O:107:TYR:CD1	2.35	1.12
6:R:35:TRP:CG	9:O:514:ALA:HB2	1.84	1.12
9:O:452:ASP:C	10:B:188:LEU:CD2	2.22	1.12
2:D:387:LYS:HD2	8:G:159:GLY:HA3	1.31	1.12
6:R:29:ALA:O	9:O:558:TYR:CZ	2.02	1.12
9:O:163:LEU:HD11	9:O:184:VAL:HG23	1.17	1.12
9:O:170:ASP:CA	9:O:249:ARG:CD	2.26	1.12
3:H:208:GLU:HG2	10:B:422:THR:HG22	1.18	1.12
5:Q:62:PHE:CA	9:O:46:CYS:HB3	1.79	1.12
5:Q:64:GLU:HG3	9:O:49:TYR:N	1.64	1.12
6:R:33:TRP:CE3	6:R:34:ALA:CB	2.33	1.12
2:D:365:GLU:OE2	8:G:153:GLU:OE2	1.68	1.11
9:O:170:ASP:N	9:O:249:ARG:HD2	1.50	1.11
7:C:399:VAL:C	7:C:400:ASN:HA	1.75	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:269:LEU:CB	8:G:137:TYR:OH	1.77	1.11
9:O:408:GLU:HG2	10:B:105:ARG:CZ	1.80	1.11
9:O:574:VAL:HG21	10:B:13:GLU:HA	1.18	1.11
1:A:419:SER:O	10:B:403:ASP:OD1	1.69	1.11
9:O:85:VAL:HG22	9:O:180:VAL:HG23	1.20	1.11
9:O:163:LEU:HD12	9:O:188:PHE:HE2	1.14	1.11
9:O:165:ARG:HH21	9:O:176:PRO:HG2	1.00	1.11
5:Q:64:GLU:CB	9:O:49:TYR:CD2	2.27	1.10
3:H:208:GLU:CG	10:B:422:THR:HG22	1.81	1.10
9:O:148:ARG:HA	9:O:191:VAL:HG13	1.11	1.10
1:A:424:ARG:NH1	10:B:405:VAL:CA	1.99	1.10
2:D:394:GLU:CG	8:G:48:GLU:N	2.13	1.10
3:H:25:LEU:CD2	7:C:118:LEU:HG	1.57	1.10
3:H:52:ASN:HD21	7:C:195:LEU:HD21	1.06	1.10
5:Q:61:ASN:O	9:O:46:CYS:CB	1.98	1.10
6:R:22:PHE:HB2	9:O:581:GLN:HB2	1.21	1.10
9:O:165:ARG:HH21	9:O:176:PRO:CG	1.64	1.10
9:O:474:HIS:CE1	10:B:230:HIS:CD2	2.40	1.10
9:O:166:GLU:OE1	9:O:181:ILE:CB	1.99	1.10
10:B:265:TYR:HB3	10:B:273:ARG:HG2	1.17	1.10
2:D:355:ILE:HG13	10:B:370:HIS:CE1	1.86	1.10
9:O:155:LEU:CD1	9:O:187:SER:HB2	1.68	1.10
1:A:502:VAL:HG23	7:C:211:THR:HG22	1.34	1.09
3:H:25:LEU:CG	7:C:118:LEU:HG	1.82	1.09
8:G:185:LEU:HA	8:G:188:ILE:HD12	1.32	1.09
9:O:85:VAL:N	9:O:180:VAL:CG2	2.13	1.09
1:A:497:ARG:HD2	7:C:397:ILE:HD11	1.13	1.09
1:A:491:LEU:HD21	7:C:165:ASP:C	1.78	1.09
2:D:61:ILE:HG12	9:O:598:GLU:OE2	1.35	1.09
6:R:23:GLU:N	9:O:577:VAL:HG11	1.65	1.09
9:O:474:HIS:CE1	10:B:230:HIS:HD2	1.69	1.09
3:H:25:LEU:CB	7:C:119:ARG:HA	1.77	1.09
5:Q:66:PRO:HD2	9:O:1:MET:C	1.77	1.09
9:O:452:ASP:O	10:B:188:LEU:CD1	2.00	1.09
1:A:454:ASP:OD1	7:C:316:THR:CB	2.00	1.08
1:A:497:ARG:CD	7:C:397:ILE:HD11	1.81	1.08
3:H:55:TYR:CE1	7:C:153:LYS:HD2	1.88	1.08
6:R:23:GLU:HG3	9:O:564:VAL:CG1	1.82	1.08
9:O:691:ARG:HB3	9:O:694:LEU:HD21	1.31	1.08
9:O:722:ILE:HA	9:O:726:ILE:HD12	1.30	1.08
9:O:572:PRO:HB2	10:B:12:ASP:OD2	1.53	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:418:VAL:HG13	10:B:401:ARG:NH2	1.50	1.08
3:H:25:LEU:HD22	7:C:118:LEU:HB3	1.16	1.08
5:Q:66:PRO:CD	9:O:1:MET:HB2	1.81	1.08
6:R:20:LYS:HG3	9:O:641:ASN:HD21	1.14	1.08
1:A:424:ARG:CZ	10:B:405:VAL:HA	1.83	1.08
9:O:163:LEU:HD21	9:O:184:VAL:HG22	1.12	1.08
9:O:439:LEU:HD23	9:O:473:LEU:HD11	1.29	1.08
10:B:139:LEU:HD13	10:B:148:TRP:HA	1.10	1.08
5:Q:64:GLU:CG	9:O:49:TYR:CD1	2.36	1.07
10:B:34:ASN:HA	10:B:37:TYR:HD2	1.16	1.07
5:Q:47:SER:HB3	9:O:39:PHE:CZ	1.89	1.07
6:R:28:ASN:CA	9:O:558:TYR:HD1	1.65	1.07
9:O:574:VAL:CG2	10:B:12:ASP:O	2.02	1.07
10:B:18:LEU:HD11	10:B:35:GLN:HB3	1.35	1.07
9:O:374:SER:HA	9:O:378:TYR:HD2	1.12	1.07
3:H:206:PHE:HB2	7:C:380:MET:HE2	1.20	1.07
5:Q:48:GLY:HA2	9:O:32:ARG:NH1	1.68	1.07
9:O:85:VAL:HG23	9:O:180:VAL:HG21	1.16	1.07
9:O:85:VAL:CG2	9:O:180:VAL:HG23	1.74	1.07
9:O:166:GLU:OE2	9:O:181:ILE:CD1	1.77	1.06
10:B:136:LEU:HD23	10:B:139:LEU:HD12	1.31	1.06
1:A:497:ARG:HH12	7:C:393:MET:HB3	1.06	1.06
1:A:497:ARG:HD2	7:C:397:ILE:CD1	1.86	1.06
1:A:502:VAL:HG23	7:C:211:THR:CG2	1.84	1.06
9:O:148:ARG:CA	9:O:191:VAL:HG13	1.83	1.06
6:R:21:ARG:HH12	9:O:585:LEU:HD23	0.93	1.06
9:O:169:ASN:O	9:O:249:ARG:NH2	1.86	1.06
10:B:338:MET:HE2	10:B:338:MET:HA	1.38	1.06
5:Q:66:PRO:HD2	9:O:1:MET:CA	1.84	1.06
5:Q:69:VAL:HG23	9:O:1:MET:SD	1.96	1.06
8:G:117:LEU:HA	8:G:122:MET:HB2	1.30	1.06
9:O:81:GLU:HA	9:O:84:LEU:HD13	1.29	1.06
1:A:419:SER:HB3	10:B:403:ASP:OD2	1.53	1.06
1:A:489:MET:HE1	7:C:390:LEU:CD2	1.85	1.06
5:Q:65:ILE:HG12	9:O:49:TYR:HE1	1.12	1.06
6:R:23:GLU:N	9:O:577:VAL:CG1	2.18	1.05
5:Q:62:PHE:HA	9:O:46:CYS:HB3	1.36	1.05
9:O:155:LEU:HD12	9:O:187:SER:CB	1.80	1.05
9:O:166:GLU:O	9:O:249:ARG:CD	2.03	1.05
2:D:373:GLN:NE2	8:G:155:ASP:O	1.89	1.05
3:H:52:ASN:HD21	7:C:195:LEU:CD2	1.70	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:58:ASN:N	9:O:39:PHE:CD2	2.25	1.05
5:Q:66:PRO:HD3	9:O:3:LEU:N	1.67	1.05
6:R:39:VAL:HG11	6:R:66:GLU:CD	1.81	1.05
9:O:456:ALA:CB	10:B:188:LEU:CD1	2.05	1.05
1:A:418:VAL:CG1	10:B:401:ARG:NH2	2.02	1.05
9:O:175:ASP:C	9:O:176:PRO:O	2.00	1.05
9:O:692:LYS:HE3	9:O:730:TYR:HA	1.06	1.05
1:A:489:MET:HE1	7:C:390:LEU:HD21	1.33	1.04
3:H:26:GLU:O	7:C:78:PHE:HE2	1.39	1.04
5:Q:65:ILE:CG2	9:O:1:MET:HG3	1.86	1.04
5:Q:68:HIS:CG	9:O:1:MET:SD	2.51	1.04
6:R:22:PHE:CA	9:O:577:VAL:CG1	2.31	1.04
9:O:163:LEU:HG	9:O:184:VAL:HG21	1.36	1.04
6:R:22:PHE:CD2	9:O:581:GLN:CG	2.37	1.04
9:O:84:LEU:HB3	9:O:180:VAL:CB	1.87	1.04
9:O:163:LEU:CD2	9:O:181:ILE:O	2.05	1.04
1:A:452:ARG:CB	7:C:315:LEU:HD13	1.86	1.04
1:A:486:ALA:HB1	7:C:386:LEU:HD13	1.39	1.04
9:O:401:LYS:HE2	9:O:401:LYS:HA	1.39	1.04
1:A:452:ARG:HB3	7:C:315:LEU:HD13	1.08	1.03
5:Q:68:HIS:ND1	9:O:1:MET:SD	2.31	1.03
3:H:25:LEU:CD2	7:C:118:LEU:CD2	1.96	1.03
3:H:28:PRO:C	7:C:119:ARG:NH1	2.17	1.03
9:O:388:PRO:HG2	9:O:427:ASP:HB2	1.41	1.03
9:O:453:SER:HA	10:B:188:LEU:HD13	1.40	1.03
6:R:33:TRP:CE2	6:R:34:ALA:N	2.25	1.03
9:O:408:GLU:HG3	10:B:105:ARG:CZ	1.86	1.03
3:H:52:ASN:ND2	7:C:195:LEU:HD21	1.73	1.03
9:O:169:ASN:C	9:O:249:ARG:CZ	2.27	1.03
2:D:60:VAL:HG11	9:O:604:GLN:OE1	1.59	1.02
9:O:78:GLU:HB2	9:O:83:VAL:HG12	1.37	1.02
9:O:84:LEU:C	9:O:180:VAL:HG13	1.83	1.02
9:O:408:GLU:HG2	10:B:105:ARG:NH1	1.75	1.02
1:A:417:TYR:HA	10:B:402:ILE:H	1.20	1.02
1:A:494:ALA:CB	7:C:167:MET:HA	1.89	1.02
2:D:386:GLU:CA	8:G:4:GLU:OE1	2.08	1.02
9:O:84:LEU:HB2	9:O:180:VAL:CB	1.84	1.02
2:D:61:ILE:HG13	9:O:598:GLU:OE2	1.58	1.02
2:D:271:ARG:CZ	8:G:137:TYR:CE2	2.41	1.02
5:Q:66:PRO:HD3	9:O:3:LEU:H	0.87	1.02
6:R:22:PHE:HD1	9:O:577:VAL:HG21	0.85	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:B:237:ILE:HD12	10:B:238:ARG:HH21	1.21	1.02
8:G:69:LEU:HD12	8:G:73:GLY:HA3	1.41	1.01
2:D:271:ARG:HH21	8:G:137:TYR:HE2	1.09	1.01
2:D:387:LYS:HD2	8:G:159:GLY:CA	1.90	1.01
2:D:392:ALA:HB2	8:G:162:ILE:CG1	1.88	1.01
6:R:29:ALA:O	9:O:558:TYR:CE1	2.11	1.01
1:A:455:SER:N	7:C:316:THR:H	1.57	1.01
1:A:455:SER:H	7:C:316:THR:N	1.59	1.01
6:R:33:TRP:CE3	6:R:34:ALA:HB3	1.95	1.01
8:G:92:GLN:HA	8:G:95:LYS:HD3	1.40	1.01
9:O:163:LEU:CD1	9:O:184:VAL:HG23	1.90	1.01
9:O:163:LEU:CD2	9:O:184:VAL:HG22	1.90	1.01
5:Q:64:GLU:CG	9:O:49:TYR:N	2.24	1.00
6:R:33:TRP:CD2	6:R:34:ALA:N	2.29	1.00
6:R:24:VAL:HG21	9:O:505:ILE:HD11	1.01	1.00
7:C:399:VAL:O	7:C:401:PRO:HD2	1.62	1.00
5:Q:24:SER:CB	9:O:3:LEU:HD22	1.92	1.00
9:O:163:LEU:CG	9:O:184:VAL:CG2	2.39	1.00
3:H:206:PHE:CD1	7:C:380:MET:HG3	1.96	1.00
10:B:78:ILE:HG23	10:B:82:LEU:HB2	1.44	1.00
2:D:377:LEU:HD22	8:G:177:TRP:HH2	1.22	0.99
5:Q:59:GLU:H	9:O:39:PHE:HB3	1.23	0.99
6:R:22:PHE:C	9:O:577:VAL:HG11	1.87	0.99
10:B:195:LEU:HG	10:B:229:PRO:HD2	1.43	0.99
3:H:55:TYR:CE2	7:C:155:PHE:HE2	1.72	0.99
9:O:166:GLU:OE1	9:O:181:ILE:HB	1.21	0.99
10:B:136:LEU:HB3	10:B:148:TRP:CZ2	1.98	0.99
10:B:18:LEU:HD13	10:B:67:TRP:HB2	1.45	0.99
2:D:380:GLN:CG	8:G:156:PHE:CE1	2.14	0.98
5:Q:61:ASN:CG	9:O:43:TYR:CA	2.30	0.98
9:O:45:LEU:HD23	9:O:108:LEU:HD21	1.40	0.98
2:D:394:GLU:OE1	8:G:43:PHE:C	2.05	0.98
6:R:23:GLU:HG3	9:O:564:VAL:HG11	0.98	0.98
9:O:16:LYS:HE2	9:O:44:ALA:HB2	1.43	0.98
9:O:553:LEU:HD21	9:O:555:TRP:CE3	1.98	0.98
9:O:163:LEU:HD13	9:O:185:ILE:HD11	1.01	0.98
9:O:169:ASN:O	9:O:249:ARG:NE	1.93	0.98
9:O:565:LYS:CE	10:B:13:GLU:CG	1.93	0.98
3:H:25:LEU:HB3	7:C:119:ARG:HA	0.99	0.98
5:Q:65:ILE:HG12	9:O:49:TYR:CE1	1.85	0.98
9:O:165:ARG:NH2	9:O:176:PRO:HG2	1.79	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:24:SER:HB2	9:O:3:LEU:CD2	1.92	0.97
2:D:271:ARG:NE	8:G:137:TYR:CZ	2.32	0.97
3:H:208:GLU:HG2	10:B:422:THR:CG2	1.94	0.97
7:C:399:VAL:CG1	7:C:400:ASN:OD1	2.12	0.97
9:O:451:MET:HE2	9:O:451:MET:HA	1.45	0.97
9:O:311:MET:HG2	9:O:364:PHE:HE1	1.28	0.97
1:A:418:VAL:CG1	10:B:401:ARG:HH21	1.71	0.97
9:O:169:ASN:HB3	9:O:249:ARG:NH1	1.77	0.97
5:Q:69:VAL:HG23	9:O:1:MET:HG2	0.97	0.97
9:O:665:MET:HE2	9:O:665:MET:HA	1.45	0.97
2:D:317:ASN:HD21	8:G:144:LYS:HD3	1.15	0.97
5:Q:68:HIS:CE1	9:O:1:MET:CB	2.47	0.97
2:D:380:GLN:HG2	8:G:156:PHE:HE1	0.80	0.96
9:O:170:ASP:CA	9:O:249:ARG:HD2	1.90	0.96
9:O:374:SER:HA	9:O:378:TYR:CD2	2.00	0.96
1:A:497:ARG:HH12	7:C:393:MET:CA	1.78	0.96
6:R:28:ASN:HA	9:O:558:TYR:HD1	0.81	0.96
9:O:144:LEU:CD1	9:O:196:LYS:HZ2	1.72	0.96
9:O:564:VAL:HG23	10:B:16:TYR:OH	0.79	0.96
9:O:452:ASP:CA	10:B:188:LEU:HD21	1.92	0.96
9:O:574:VAL:HG23	10:B:12:ASP:O	1.66	0.96
9:O:294:MET:HA	9:O:294:MET:HE3	1.44	0.96
10:B:27:GLU:HB3	10:B:28:PRO:HD3	1.47	0.96
3:H:125:TYR:OH	7:C:339:LEU:CD1	2.13	0.96
5:Q:68:HIS:HE1	9:O:1:MET:HB3	1.21	0.96
9:O:572:PRO:HB2	10:B:12:ASP:CG	1.90	0.96
6:R:25:LYS:HG3	9:O:576:MET:SD	2.06	0.96
8:G:23:SER:HA	8:G:27:LEU:HB2	1.46	0.96
1:A:454:ASP:CA	7:C:315:LEU:HD23	1.96	0.96
10:B:219:GLU:HA	10:B:222:LEU:HD13	1.46	0.95
1:A:454:ASP:HA	7:C:315:LEU:HB3	1.46	0.95
6:R:39:VAL:HG11	6:R:66:GLU:OE1	1.65	0.95
1:A:418:VAL:HG13	10:B:401:ARG:HH21	1.22	0.95
10:B:165:TYR:CE1	10:B:204:MET:HG3	2.02	0.95
9:O:159:LEU:HD21	9:O:184:VAL:O	1.66	0.95
10:B:34:ASN:HA	10:B:37:TYR:CD2	2.01	0.95
1:A:478:MET:HE3	10:B:426:LYS:HE3	0.97	0.95
9:O:530:PRO:HD2	9:O:533:LEU:HD12	1.44	0.95
8:G:140:ILE:HG23	8:G:141:ILE:HG13	1.49	0.95
9:O:24:VAL:HG11	9:O:100:TYR:HB2	1.47	0.95
1:A:424:ARG:HH12	10:B:405:VAL:CB	1.80	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:25:LEU:HD11	7:C:118:LEU:HG	1.49	0.95
5:Q:66:PRO:CG	9:O:3:LEU:CA	2.33	0.95
1:A:454:ASP:CA	7:C:315:LEU:HB3	1.85	0.94
8:G:31:ILE:HD11	8:G:55:LEU:HG	1.48	0.94
9:O:620:VAL:HG12	9:O:622:MET:H	1.28	0.94
5:Q:61:ASN:HB2	9:O:43:TYR:HA	1.47	0.94
9:O:163:LEU:HD13	9:O:185:ILE:CG1	1.97	0.94
5:Q:64:GLU:HG2	9:O:49:TYR:CG	1.96	0.94
2:D:323:GLU:OE2	8:G:125:LEU:CD1	2.15	0.94
2:D:391:THR:C	8:G:162:ILE:CG1	2.36	0.94
9:O:170:ASP:OD2	9:O:246:GLU:HA	1.67	0.94
9:O:170:ASP:H	9:O:249:ARG:HD2	1.24	0.94
3:H:206:PHE:CE1	7:C:380:MET:HG3	2.01	0.94
9:O:159:LEU:HD21	9:O:184:VAL:C	1.53	0.94
9:O:163:LEU:HD11	9:O:184:VAL:CG2	1.97	0.94
9:O:414:ARG:HG3	9:O:418:PHE:CE2	2.02	0.94
2:D:394:GLU:HG3	8:G:48:GLU:H	1.29	0.94
9:O:449:MET:C	10:B:106:ASN:HD21	1.76	0.94
10:B:15:ASP:HA	10:B:67:TRP:CD1	2.03	0.94
9:O:448:SER:O	10:B:106:ASN:ND2	2.00	0.93
5:Q:64:GLU:HG2	9:O:49:TYR:CE1	2.02	0.93
8:G:199:LYS:HE2	8:G:203:LEU:HD12	1.49	0.93
9:O:163:LEU:HD21	9:O:184:VAL:CG2	1.98	0.93
1:A:502:VAL:CG2	7:C:211:THR:CG2	2.47	0.93
2:D:392:ALA:HB1	8:G:43:PHE:HA	1.48	0.93
9:O:510:TYR:CD2	9:O:559:LEU:HD21	2.02	0.93
5:Q:61:ASN:ND2	9:O:43:TYR:N	2.04	0.93
6:R:33:TRP:CZ2	9:O:514:ALA:O	2.22	0.93
10:B:373:PHE:HA	10:B:376:LYS:HE2	1.51	0.93
6:R:24:VAL:HG21	9:O:505:ILE:CD1	1.95	0.93
9:O:565:LYS:CE	10:B:13:GLU:CB	2.34	0.93
1:A:489:MET:HE3	7:C:390:LEU:HD21	1.49	0.93
9:O:192:GLU:HA	9:O:202:PHE:HE2	1.29	0.93
9:O:452:ASP:O	10:B:188:LEU:CG	2.17	0.93
6:R:23:GLU:H	9:O:577:VAL:HG11	1.31	0.92
4:P:7:ILE:O	4:P:13:THR:HA	1.67	0.92
9:O:553:LEU:HD21	9:O:555:TRP:HE3	1.32	0.92
9:O:84:LEU:CA	9:O:180:VAL:CG1	2.13	0.92
1:A:417:TYR:CA	10:B:402:ILE:O	2.17	0.92
6:R:31:ALA:HB2	9:O:558:TYR:HE2	1.34	0.92
3:H:125:TYR:CZ	7:C:339:LEU:CD1	2.52	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:O:407:THR:HG23	10:B:100:ARG:HH12	1.23	0.92
3:H:206:PHE:CB	7:C:380:MET:CE	2.36	0.92
10:B:292:ASN:HB3	10:B:295:ASP:HB2	1.51	0.92
9:O:192:GLU:HA	9:O:202:PHE:CE2	2.04	0.92
9:O:407:THR:CG2	10:B:100:ARG:HH12	1.66	0.92
8:G:98:HIS:HA	8:G:101:ILE:HG22	1.52	0.92
9:O:166:GLU:CD	9:O:181:ILE:HD12	1.92	0.92
9:O:462:LYS:CE	10:B:228:ILE:HD12	1.99	0.92
1:A:419:SER:CB	10:B:403:ASP:CG	2.41	0.91
2:D:269:LEU:HB3	8:G:137:TYR:CZ	2.04	0.91
2:D:394:GLU:CD	8:G:43:PHE:O	2.11	0.91
9:O:456:ALA:H	10:B:188:LEU:HD11	1.35	0.91
10:B:21:SER:HB3	10:B:64:LYS:CD	2.01	0.91
10:B:314:LEU:HD23	10:B:329:ILE:CD1	2.00	0.91
6:R:24:VAL:CG2	9:O:505:ILE:HD11	1.97	0.91
9:O:155:LEU:HD12	9:O:187:SER:HB2	1.39	0.91
9:O:173:GLY:O	9:O:249:ARG:NH2	2.02	0.91
10:B:139:LEU:HD13	10:B:148:TRP:CA	2.00	0.91
2:D:392:ALA:HB3	8:G:162:ILE:HG21	1.50	0.91
9:O:243:LEU:HD13	9:O:263:ILE:HG23	1.53	0.91
8:G:1:MET:HE3	8:G:12:LEU:HD11	1.52	0.91
9:O:565:LYS:HD3	10:B:12:ASP:HB3	1.53	0.91
6:R:18:LYS:O	9:O:568:TYR:CB	2.19	0.91
9:O:409:ASN:ND2	10:B:143:LYS:O	2.04	0.91
1:A:475:SER:OG	10:B:426:LYS:HG2	1.69	0.91
6:R:23:GLU:OE2	9:O:566:MET:HE3	1.71	0.91
9:O:24:VAL:HG22	9:O:30:VAL:HG11	1.53	0.91
2:D:395:TRP:N	8:G:45:GLU:HG2	1.80	0.91
9:O:170:ASP:CB	9:O:249:ARG:HD2	2.00	0.91
9:O:399:LEU:HD12	9:O:454:GLU:CG	2.00	0.91
9:O:564:VAL:HG23	10:B:16:TYR:HH	1.30	0.91
6:R:20:LYS:C	9:O:641:ASN:HD22	1.77	0.91
9:O:577:VAL:HG22	9:O:578:THR:H	1.35	0.91
5:Q:61:ASN:CB	9:O:43:TYR:CA	2.46	0.90
5:Q:66:PRO:HG3	9:O:3:LEU:N	1.59	0.90
9:O:574:VAL:HG21	10:B:12:ASP:O	1.70	0.90
5:Q:61:ASN:HD21	9:O:43:TYR:HB2	1.25	0.90
6:R:35:TRP:HE3	9:O:514:ALA:HB1	1.14	0.90
9:O:153:GLU:HB3	9:O:154:PRO:HD3	1.50	0.90
9:O:163:LEU:HD12	9:O:188:PHE:CE2	2.06	0.90
5:Q:66:PRO:HG2	9:O:3:LEU:N	1.86	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:R:33:TRP:NE1	9:O:514:ALA:O	2.04	0.90
10:B:15:ASP:HA	10:B:67:TRP:CG	2.05	0.90
10:B:265:TYR:HB3	10:B:273:ARG:CG	2.00	0.90
2:D:271:ARG:NE	8:G:137:TYR:CE2	2.38	0.90
5:Q:64:GLU:HG3	9:O:49:TYR:HA	0.90	0.90
9:O:163:LEU:HG	9:O:184:VAL:CG2	2.00	0.90
10:B:95:LEU:HA	10:B:98:TYR:HD2	1.35	0.90
5:Q:58:ASN:N	9:O:39:PHE:CG	2.39	0.90
3:H:125:TYR:CZ	7:C:339:LEU:HD11	2.06	0.90
10:B:144:ASN:HB3	10:B:147:LEU:HB2	1.52	0.90
9:O:453:SER:HA	10:B:188:LEU:CD1	2.01	0.90
6:R:21:ARG:HH11	9:O:585:LEU:HD21	1.37	0.90
9:O:163:LEU:CD1	9:O:188:PHE:HE2	1.84	0.90
9:O:327:THR:HG23	9:O:346:VAL:CG2	2.01	0.90
10:B:21:SER:HB3	10:B:64:LYS:HD2	1.54	0.90
6:R:22:PHE:HA	9:O:577:VAL:CG2	2.03	0.89
1:A:502:VAL:CG2	7:C:211:THR:HG22	2.02	0.89
10:B:245:HIS:HD2	10:B:250:GLU:HB2	1.35	0.89
3:H:25:LEU:HD21	7:C:118:LEU:HD23	0.90	0.89
5:Q:62:PHE:N	9:O:46:CYS:HB3	1.87	0.89
5:Q:65:ILE:HG13	9:O:49:TYR:CD1	2.06	0.89
6:R:29:ALA:C	9:O:558:TYR:OH	2.14	0.89
3:H:55:TYR:CE2	7:C:155:PHE:CZ	2.60	0.89
8:G:56:ALA:HB1	8:G:64:LEU:HD22	1.54	0.89
9:O:564:VAL:HG23	10:B:16:TYR:CZ	2.07	0.89
9:O:387:ALA:HB3	9:O:388:PRO:HD3	1.55	0.89
1:A:437:GLU:CD	7:C:314:PHE:CE1	2.50	0.89
5:Q:21:LEU:O	5:Q:28:GLU:HA	1.73	0.89
5:Q:68:HIS:N	9:O:1:MET:HE1	1.88	0.89
10:B:79:ASN:HB2	10:B:88:MET:HB2	1.55	0.89
5:Q:65:ILE:CB	9:O:49:TYR:HE1	1.76	0.89
9:O:235:TYR:CE1	9:O:238:LYS:HD2	2.08	0.88
2:D:394:GLU:H	8:G:46:LEU:H	0.90	0.88
10:B:18:LEU:HG	10:B:65:GLY:HA2	1.55	0.88
9:O:117:LYS:HG3	9:O:120:GLU:HG3	1.54	0.88
10:B:215:LYS:HD3	10:B:247:ARG:HD2	1.53	0.88
3:H:29:GLY:N	7:C:119:ARG:HH22	1.71	0.88
9:O:732:GLU:HB3	9:O:741:TYR:CD2	2.08	0.88
6:R:33:TRP:CE2	9:O:514:ALA:O	2.26	0.88
10:B:14:GLU:CD	10:B:70:LYS:HE3	1.98	0.88
1:A:454:ASP:HB2	7:C:315:LEU:CD2	2.04	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:64:GLU:CG	9:O:49:TYR:H	1.86	0.88
9:O:159:LEU:CD2	9:O:184:VAL:C	2.42	0.88
9:O:692:LYS:HE3	9:O:730:TYR:CA	2.00	0.88
10:B:318:TYR:CD1	10:B:350:LEU:HD11	2.09	0.88
10:B:364:LYS:HB2	10:B:365:PRO:HD3	1.56	0.88
5:Q:64:GLU:CB	9:O:49:TYR:CG	2.53	0.88
9:O:17:LEU:HG	9:O:57:LEU:HD21	1.53	0.88
10:B:112:ILE:HD13	10:B:115:ILE:HD12	1.56	0.88
3:H:29:GLY:N	7:C:119:ARG:NH2	2.21	0.87
6:R:35:TRP:CB	9:O:514:ALA:HB2	2.03	0.87
3:H:25:LEU:CD1	7:C:118:LEU:CG	2.51	0.87
10:B:40:LYS:HD3	10:B:44:GLU:HG3	1.53	0.87
10:B:270:SER:HB3	10:B:273:ARG:HE	1.39	0.87
8:G:97:LYS:HG2	8:G:120:LEU:HD22	1.55	0.87
10:B:72:LEU:HB2	10:B:95:LEU:HD21	1.56	0.87
2:D:355:ILE:HG13	10:B:370:HIS:HE1	1.36	0.87
9:O:407:THR:HG23	10:B:100:ARG:HH11	1.06	0.87
9:O:163:LEU:CD1	9:O:184:VAL:CG2	2.53	0.87
7:C:399:VAL:C	7:C:400:ASN:CA	2.47	0.86
5:Q:61:ASN:H	9:O:42:ILE:CG2	1.88	0.86
5:Q:64:GLU:HB2	9:O:49:TYR:CG	2.10	0.86
2:D:323:GLU:CD	8:G:125:LEU:HG	2.00	0.86
5:Q:59:GLU:H	9:O:39:PHE:CB	1.89	0.86
5:Q:62:PHE:HA	9:O:46:CYS:CB	2.04	0.86
10:B:265:TYR:CB	10:B:273:ARG:HG2	2.03	0.86
1:A:495:VAL:CB	7:C:169:ILE:HD11	2.05	0.86
6:R:19:LYS:HD3	9:O:569:LEU:HD12	0.88	0.86
1:A:98:GLU:O	1:A:101:GLN:HB3	1.74	0.86
9:O:439:LEU:CD2	9:O:473:LEU:HD11	2.05	0.86
10:B:136:LEU:HD22	10:B:148:TRP:NE1	1.91	0.86
9:O:164:LEU:HA	9:O:207:PHE:HZ	1.39	0.86
2:D:317:ASN:ND2	8:G:153:GLU:OE1	2.09	0.86
3:H:120:LEU:HD11	7:C:343:GLU:HG3	1.57	0.86
7:C:399:VAL:C	7:C:400:ASN:CG	2.43	0.86
10:B:11:ASP:HB2	10:B:42:LEU:HD23	1.57	0.86
9:O:565:LYS:HE2	10:B:13:GLU:CA	2.01	0.86
3:H:26:GLU:O	7:C:119:ARG:HD2	1.76	0.86
6:R:24:VAL:HG22	9:O:562:GLY:HA3	1.57	0.86
9:O:78:GLU:HB2	9:O:83:VAL:CG1	2.05	0.86
1:A:489:MET:CE	7:C:390:LEU:CD2	2.49	0.86
9:O:691:ARG:HB2	9:O:694:LEU:HD11	1.55	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:B:60:LEU:HD13	10:B:61:GLU:N	1.90	0.85
2:D:60:VAL:CG2	9:O:602:SER:O	2.24	0.85
3:H:26:GLU:O	7:C:78:PHE:CE2	2.29	0.85
9:O:23:ALA:HA	9:O:28:GLU:HB2	1.58	0.85
1:A:417:TYR:HA	10:B:402:ILE:N	1.90	0.85
9:O:117:LYS:HD2	9:O:119:THR:HB	1.57	0.85
9:O:165:ARG:NH2	9:O:176:PRO:CG	2.36	0.85
2:D:390:GLN:OE1	8:G:6:LYS:HD2	1.74	0.85
2:D:392:ALA:HA	8:G:40:VAL:HG13	1.58	0.85
5:Q:64:GLU:CB	9:O:49:TYR:N	2.38	0.85
6:R:22:PHE:C	9:O:577:VAL:CG1	2.47	0.85
9:O:692:LYS:HE2	9:O:731:ILE:CD1	2.07	0.85
10:B:21:SER:C	10:B:64:LYS:HB3	2.01	0.85
1:A:444:ILE:HG21	7:C:312:LYS:O	1.77	0.85
2:D:392:ALA:HA	8:G:40:VAL:CG1	2.07	0.85
5:Q:62:PHE:CD1	9:O:107:TYR:CE1	2.65	0.85
6:R:20:LYS:CG	9:O:641:ASN:HD21	1.90	0.85
9:O:209:SER:HB2	9:O:210:PRO:HD3	1.58	0.85
9:O:248:ILE:HD13	9:O:251:ARG:HH21	1.40	0.85
9:O:295:ALA:HA	9:O:357:VAL:HG11	1.59	0.85
10:B:18:LEU:HD23	10:B:19:GLU:N	1.92	0.85
9:O:648:ARG:HG3	9:O:652:LYS:HD2	1.58	0.84
10:B:136:LEU:HD22	10:B:148:TRP:CD1	2.12	0.84
5:Q:64:GLU:OE2	9:O:50:PRO:HD2	1.77	0.84
3:H:29:GLY:CA	7:C:119:ARG:HH22	1.90	0.84
6:R:33:TRP:CD2	6:R:34:ALA:HB3	2.12	0.84
2:D:377:LEU:HD21	8:G:177:TRP:CZ3	2.12	0.84
9:O:167:ILE:HG22	9:O:171:ARG:HH12	1.43	0.84
9:O:170:ASP:HB2	9:O:249:ARG:HD2	1.55	0.84
2:D:392:ALA:HB2	8:G:162:ILE:HG13	1.47	0.84
9:O:151:MET:HA	9:O:155:LEU:HD23	1.58	0.84
10:B:77:LYS:HE2	10:B:118:TYR:CE1	2.13	0.84
5:Q:66:PRO:CD	9:O:1:MET:C	2.50	0.84
9:O:17:LEU:HD23	9:O:45:LEU:HD11	1.60	0.84
10:B:123:LYS:HG3	10:B:126:ASP:OD1	1.78	0.84
5:Q:24:SER:HB2	9:O:3:LEU:HD22	1.52	0.84
6:R:19:LYS:CD	9:O:569:LEU:CD1	2.45	0.84
9:O:693:VAL:O	9:O:694:LEU:HD23	1.78	0.83
9:O:724:VAL:CG2	9:O:725:LEU:HD12	2.06	0.83
10:B:123:LYS:HG2	10:B:127:LEU:CG	2.07	0.83
10:B:123:LYS:HB3	10:B:127:LEU:HB2	1.57	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:494:ALA:HB1	7:C:168:ASP:H	0.70	0.83
5:Q:65:ILE:HG22	9:O:1:MET:CG	2.03	0.83
7:C:399:VAL:C	7:C:401:PRO:HD2	2.02	0.83
5:Q:68:HIS:N	9:O:1:MET:SD	2.51	0.83
10:B:14:GLU:HB2	10:B:67:TRP:HZ2	1.42	0.83
10:B:18:LEU:CD1	10:B:35:GLN:HB3	2.06	0.83
2:D:392:ALA:HB3	8:G:162:ILE:HG13	1.60	0.83
6:R:22:PHE:HA	9:O:577:VAL:CB	2.09	0.83
9:O:159:LEU:CD2	9:O:184:VAL:O	2.25	0.83
10:B:302:TYR:O	10:B:308:ILE:HD11	1.79	0.83
5:Q:61:ASN:HD22	9:O:43:TYR:H	1.23	0.83
9:O:144:LEU:HD12	9:O:196:LYS:HZ2	1.42	0.83
9:O:175:ASP:HB2	9:O:252:LYS:HD3	1.60	0.83
9:O:181:ILE:O	9:O:184:VAL:HG22	1.78	0.83
10:B:3:ASP:HB2	10:B:47:PRO:HG3	1.60	0.83
5:Q:59:GLU:N	9:O:39:PHE:HB3	1.92	0.83
9:O:85:VAL:CA	9:O:180:VAL:CG2	2.55	0.83
9:O:239:VAL:HG21	9:O:270:MET:HE1	1.60	0.83
10:B:146:ARG:HG2	10:B:150:LYS:HZ3	1.44	0.83
2:D:61:ILE:CD1	9:O:598:GLU:OE2	2.27	0.83
9:O:170:ASP:HA	9:O:249:ARG:HE	0.67	0.83
10:B:176:HIS:CD2	10:B:181:THR:HG21	2.13	0.83
7:C:399:VAL:O	7:C:400:ASN:CG	2.21	0.82
9:O:163:LEU:CD2	9:O:184:VAL:CG2	2.54	0.82
9:O:155:LEU:HD13	9:O:159:LEU:HD22	1.60	0.82
10:B:371:ILE:HB	10:B:372:PRO:HD3	1.60	0.82
2:D:317:ASN:CG	8:G:144:LYS:HD3	2.03	0.82
10:B:78:ILE:CG2	10:B:82:LEU:HB2	2.09	0.82
10:B:53:SER:HA	10:B:56:LYS:HD2	1.60	0.82
3:H:55:TYR:CD2	7:C:155:PHE:CE2	2.67	0.82
1:A:418:VAL:CG2	10:B:401:ARG:HH21	1.91	0.82
8:G:165:LYS:HE2	8:G:167:LEU:HD13	1.62	0.82
9:O:39:PHE:HA	9:O:42:ILE:HD13	1.60	0.82
9:O:160:ILE:HD11	9:O:206:ILE:HG21	1.62	0.82
10:B:66:GLU:OE1	10:B:103:VAL:HG13	1.78	0.82
9:O:23:ALA:CA	9:O:28:GLU:HB2	2.10	0.82
10:B:18:LEU:CD1	10:B:67:TRP:HB2	2.09	0.82
10:B:72:LEU:HD22	10:B:91:ARG:HD3	1.61	0.82
3:H:55:TYR:HE2	7:C:155:PHE:HE2	1.28	0.82
9:O:23:ALA:C	9:O:28:GLU:HB2	2.04	0.81
10:B:95:LEU:HA	10:B:98:TYR:CD2	2.15	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:55:TYR:CD1	7:C:153:LYS:CG	2.62	0.81
5:Q:61:ASN:HB3	9:O:43:TYR:HA	1.60	0.81
9:O:294:MET:SD	9:O:358:LEU:HD21	2.20	0.81
9:O:720:LYS:O	9:O:724:VAL:HG22	1.81	0.81
10:B:51:LEU:HA	10:B:54:PHE:CD2	2.15	0.81
9:O:439:LEU:HD23	9:O:473:LEU:CD1	2.10	0.81
10:B:136:LEU:CD2	10:B:139:LEU:HD12	2.09	0.81
6:R:40:ASP:CA	6:R:41:ASN:N	2.44	0.81
8:G:116:LEU:HD12	8:G:120:LEU:HD12	1.62	0.81
9:O:315:LEU:O	9:O:319:ILE:HD12	1.80	0.81
1:A:455:SER:OG	7:C:316:THR:O	1.72	0.81
3:H:25:LEU:HD22	7:C:118:LEU:CG	1.76	0.81
3:H:206:PHE:HB2	7:C:380:MET:HE1	1.61	0.81
10:B:142:ALA:HB3	10:B:143:LYS:NZ	1.95	0.81
1:A:490:MET:SD	7:C:167:MET:SD	2.78	0.81
10:B:373:PHE:HA	10:B:376:LYS:CE	2.10	0.81
1:A:502:VAL:HB	7:C:212:PRO:O	1.80	0.81
6:R:35:TRP:HB3	9:O:514:ALA:CB	2.10	0.81
9:O:565:LYS:CD	10:B:12:ASP:HB3	2.10	0.81
6:R:72:TRP:H	10:B:300:LYS:HZ2	1.29	0.81
9:O:174:GLU:CD	9:O:252:LYS:HE2	2.05	0.81
9:O:510:TYR:N	9:O:559:LEU:HD22	1.96	0.81
9:O:85:VAL:HA	9:O:180:VAL:HG22	1.63	0.81
9:O:722:ILE:HD13	9:O:726:ILE:CD1	2.10	0.81
5:Q:58:ASN:ND2	9:O:36:ASN:HD21	1.78	0.80
8:G:15:PHE:HE1	8:G:33:GLN:HG3	1.46	0.80
10:B:30:VAL:CG1	10:B:60:LEU:HB3	2.11	0.80
1:A:417:TYR:CD1	10:B:402:ILE:HB	2.16	0.80
3:H:29:GLY:N	7:C:119:ARG:NH1	2.29	0.80
5:Q:64:GLU:HG3	9:O:49:TYR:CB	2.11	0.80
9:O:117:LYS:CG	9:O:120:GLU:HG3	2.11	0.80
9:O:565:LYS:HG2	9:O:574:VAL:HG22	1.62	0.80
9:O:616:SER:O	9:O:620:VAL:HG23	1.81	0.80
10:B:270:SER:HB3	10:B:273:ARG:NE	1.96	0.80
3:H:125:TYR:OH	7:C:339:LEU:HD11	1.80	0.80
9:O:248:ILE:HD13	9:O:251:ARG:NH2	1.96	0.80
9:O:624:ASN:HB3	9:O:639:SER:HB2	1.62	0.80
3:H:125:TYR:CE2	7:C:339:LEU:HD11	2.16	0.80
8:G:99:LEU:HA	8:G:160:ARG:HD2	1.63	0.80
9:O:16:LYS:HE2	9:O:44:ALA:CB	2.11	0.80
9:O:361:ASP:HB3	9:O:364:PHE:CD2	2.16	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:B:338:MET:HA	10:B:338:MET:CE	2.10	0.80
1:A:502:VAL:HG22	7:C:178:ALA:HB1	1.63	0.80
2:D:387:LYS:CE	8:G:159:GLY:HA3	2.12	0.80
5:Q:66:PRO:HG3	9:O:3:LEU:CB	2.11	0.80
9:O:84:LEU:HD23	9:O:180:VAL:HG12	1.62	0.80
9:O:84:LEU:C	9:O:180:VAL:HG22	2.07	0.80
9:O:388:PRO:HG2	9:O:427:ASP:CB	2.11	0.80
10:B:88:MET:CE	10:B:119:ILE:HG12	2.11	0.80
10:B:118:TYR:O	10:B:121:THR:HG22	1.81	0.80
2:D:392:ALA:HB3	8:G:162:ILE:CG2	2.12	0.80
5:Q:48:GLY:CA	9:O:32:ARG:HH12	1.94	0.80
5:Q:68:HIS:CE1	9:O:1:MET:SD	2.75	0.80
8:G:71:ALA:HA	8:G:163:ARG:HA	1.63	0.80
3:H:208:GLU:O	10:B:422:THR:HB	1.78	0.80
7:C:398:THR:O	7:C:401:PRO:HD3	1.82	0.80
2:D:61:ILE:HD11	9:O:598:GLU:HG2	1.62	0.80
9:O:45:LEU:CD2	9:O:108:LEU:HD21	2.11	0.80
3:H:126:THR:OG1	7:C:350:SER:OG	1.67	0.79
5:Q:65:ILE:CG2	9:O:1:MET:CG	2.58	0.79
6:R:22:PHE:HB2	9:O:581:GLN:CB	2.08	0.79
6:R:23:GLU:H	9:O:577:VAL:CG1	1.89	0.79
6:R:23:GLU:O	9:O:577:VAL:HG12	1.81	0.79
9:O:376:VAL:HG12	9:O:384:VAL:HG13	1.62	0.79
9:O:691:ARG:CB	9:O:694:LEU:HD21	2.10	0.79
9:O:729:GLN:CA	9:O:744:VAL:HG12	2.12	0.79
10:B:18:LEU:HB3	10:B:67:TRP:HD1	1.47	0.79
10:B:30:VAL:HG11	10:B:60:LEU:HD12	1.63	0.79
1:A:494:ALA:CB	7:C:167:MET:CA	2.60	0.79
10:B:18:LEU:HD21	10:B:35:GLN:NE2	1.97	0.79
5:Q:63:ARG:HB2	9:O:47:VAL:HA	1.63	0.79
9:O:167:ILE:CA	9:O:253:TYR:OH	2.27	0.79
9:O:694:LEU:HD12	9:O:699:LEU:HD11	1.63	0.79
10:B:144:ASN:HA	10:B:147:LEU:HD13	1.65	0.79
9:O:692:LYS:HE2	9:O:731:ILE:HD13	1.64	0.79
10:B:146:ARG:NH1	10:B:189:LYS:HD3	1.97	0.79
6:R:23:GLU:CD	9:O:566:MET:HE3	2.07	0.79
6:R:35:TRP:HB2	9:O:554:THR:HG21	1.64	0.79
10:B:305:ASP:HB3	10:B:308:ILE:HG12	1.63	0.79
8:G:110:CYS:HB2	8:G:151:LEU:HD13	1.64	0.79
9:O:533:LEU:O	9:O:537:VAL:HG22	1.82	0.79
1:A:419:SER:CB	10:B:403:ASP:OD2	2.30	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:386:GLU:HB3	8:G:4:GLU:HB3	1.63	0.79
3:H:25:LEU:HD13	7:C:118:LEU:HG	1.62	0.79
5:Q:66:PRO:HG2	9:O:2:SER:C	2.08	0.79
9:O:687:ILE:HG12	9:O:706:GLN:HE21	1.49	0.79
10:B:359:LEU:HG	10:B:363:ILE:HD11	1.65	0.79
6:R:21:ARG:NH1	9:O:585:LEU:HD23	1.74	0.78
6:R:35:TRP:CD2	9:O:514:ALA:HB3	2.18	0.78
8:G:42:VAL:HG23	8:G:161:ASP:HB3	1.66	0.78
10:B:317:ALA:HA	10:B:320:ASN:HD21	1.46	0.78
10:B:318:TYR:HD1	10:B:350:LEU:HD11	1.44	0.78
6:R:40:ASP:HA	6:R:41:ASN:N	1.99	0.78
10:B:53:SER:O	10:B:57:VAL:HG23	1.84	0.78
10:B:195:LEU:CG	10:B:229:PRO:HD2	2.12	0.78
10:B:420:ARG:HB3	10:B:424:LEU:CD1	2.14	0.78
9:O:109:ASN:O	9:O:113:ILE:HG13	1.83	0.78
5:Q:48:GLY:HA2	9:O:32:ARG:HH11	1.49	0.78
5:Q:48:GLY:HA2	9:O:32:ARG:HH12	1.42	0.78
8:G:22:THR:HB	8:G:26:ALA:HB1	1.65	0.78
8:G:98:HIS:HE1	8:G:131:LEU:HD12	1.48	0.78
9:O:311:MET:HG2	9:O:364:PHE:CE1	2.17	0.78
9:O:611:THR:O	9:O:614:ILE:HG22	1.82	0.78
5:Q:61:ASN:C	9:O:46:CYS:HB3	2.06	0.78
8:G:144:LYS:H	8:G:153:GLU:HB2	1.48	0.78
3:H:25:LEU:HD22	7:C:118:LEU:CA	2.14	0.78
1:A:494:ALA:HB1	7:C:167:MET:C	2.09	0.78
5:Q:61:ASN:CG	9:O:43:TYR:CB	2.55	0.78
10:B:25:ASN:HB3	10:B:28:PRO:CG	2.14	0.78
10:B:51:LEU:HA	10:B:54:PHE:HD2	1.46	0.78
3:H:29:GLY:CA	7:C:119:ARG:NH2	2.46	0.77
2:D:392:ALA:HB3	8:G:162:ILE:CB	2.15	0.77
10:B:219:GLU:HA	10:B:222:LEU:CD1	2.14	0.77
6:R:22:PHE:HA	9:O:577:VAL:HG13	1.61	0.77
1:A:417:TYR:HA	10:B:402:ILE:O	1.84	0.77
1:A:502:VAL:CG2	7:C:211:THR:HG21	2.12	0.77
10:B:94:GLN:O	10:B:97:THR:HG22	1.85	0.77
2:D:392:ALA:H	8:G:162:ILE:CD1	1.97	0.77
9:O:578:THR:HG22	9:O:579:THR:H	1.49	0.77
10:B:18:LEU:HB3	10:B:67:TRP:CD1	2.19	0.77
8:G:43:PHE:O	8:G:47:LEU:N	2.17	0.77
8:G:140:ILE:HA	8:G:158:ILE:HG12	1.65	0.77
10:B:67:TRP:CZ2	10:B:70:LYS:HD2	2.20	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:B:136:LEU:HD23	10:B:139:LEU:CD1	2.14	0.77
10:B:314:LEU:HD23	10:B:329:ILE:HD12	1.63	0.77
1:A:475:SER:CB	10:B:426:LYS:HG2	2.14	0.77
3:H:125:TYR:CZ	7:C:339:LEU:HD13	2.18	0.77
5:Q:24:SER:HB2	9:O:3:LEU:HD21	1.64	0.77
9:O:426:ASP:O	9:O:711:PHE:HA	1.85	0.77
9:O:692:LYS:CE	9:O:730:TYR:HA	2.02	0.77
10:B:137:GLU:C	10:B:140:LYS:HE3	2.10	0.77
9:O:113:ILE:HD12	9:O:114:LYS:N	1.99	0.77
9:O:170:ASP:CG	9:O:249:ARG:HB3	2.09	0.77
9:O:326:ALA:HA	9:O:330:LEU:HD13	1.65	0.77
10:B:155:LEU:HG	10:B:159:TYR:CE2	2.20	0.77
9:O:428:LYS:HE3	9:O:679:TYR:OH	1.84	0.77
9:O:337:THR:O	9:O:340:VAL:HG12	1.85	0.76
10:B:129:GLN:HG3	10:B:155:LEU:HD11	1.67	0.76
5:Q:61:ASN:CG	9:O:43:TYR:HB2	2.11	0.76
6:R:33:TRP:CE3	6:R:34:ALA:CA	2.68	0.76
9:O:84:LEU:CB	9:O:180:VAL:CG1	0.77	0.76
9:O:629:LYS:HZ3	9:O:633:ASP:HA	1.50	0.76
9:O:669:ARG:HD2	9:O:672:VAL:HG11	1.66	0.76
9:O:688:MET:HG3	9:O:721:CYS:SG	2.26	0.76
10:B:30:VAL:CG1	10:B:60:LEU:HD12	2.15	0.76
8:G:28:THR:HG22	8:G:60:ASN:HD21	1.50	0.76
9:O:73:HIS:O	9:O:76:VAL:HG22	1.85	0.76
9:O:370:LYS:HZ1	9:O:378:TYR:HE2	1.30	0.76
10:B:25:ASN:HB3	10:B:28:PRO:HG2	1.65	0.76
10:B:146:ARG:HG2	10:B:150:LYS:NZ	1.99	0.76
9:O:300:LEU:O	9:O:304:VAL:HG22	1.84	0.76
9:O:495:LYS:HB3	9:O:500:VAL:HG13	1.67	0.76
2:D:387:LYS:CG	8:G:159:GLY:HA3	2.14	0.76
5:Q:65:ILE:CG1	9:O:49:TYR:CD1	2.65	0.76
8:G:145:LEU:HA	8:G:152:LEU:HD12	1.67	0.76
10:B:18:LEU:HD23	10:B:19:GLU:CA	2.15	0.76
9:O:81:GLU:HG3	9:O:165:ARG:NH2	2.00	0.76
9:O:511:VAL:HG22	9:O:544:TYR:OH	1.86	0.76
9:O:17:LEU:CD1	9:O:21:ILE:HD12	2.15	0.76
9:O:84:LEU:CG	9:O:180:VAL:HG11	1.83	0.76
8:G:30:LEU:HA	8:G:33:GLN:HE21	1.51	0.76
9:O:163:LEU:CD1	9:O:185:ILE:HD11	1.90	0.76
9:O:498:ASP:HA	10:B:4:MET:HE1	1.66	0.76
10:B:18:LEU:HA	10:B:64:LYS:O	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:B:294:PHE:O	10:B:299:ALA:HB3	1.85	0.76
3:H:52:ASN:ND2	7:C:195:LEU:CD2	2.37	0.76
3:H:55:TYR:HD1	7:C:153:LYS:CG	1.92	0.76
1:A:419:SER:HB3	10:B:403:ASP:OD1	1.85	0.76
8:G:191:GLN:OE1	8:G:194:ARG:NH1	2.19	0.76
10:B:7:ASP:OD1	10:B:77:LYS:HE3	1.86	0.76
9:O:530:PRO:HD2	9:O:533:LEU:CD1	2.15	0.75
1:A:478:MET:HE3	10:B:426:LYS:HE2	1.66	0.75
1:A:491:LEU:CD2	7:C:166:MET:O	2.34	0.75
3:H:25:LEU:HD22	7:C:118:LEU:C	2.12	0.75
5:Q:68:HIS:C	9:O:1:MET:SD	2.68	0.75
8:G:160:ARG:HB3	8:G:163:ARG:HH22	1.51	0.75
9:O:101:MET:HE2	9:O:139:ILE:HD11	1.68	0.75
10:B:123:LYS:CB	10:B:127:LEU:HB2	2.15	0.75
1:A:478:MET:HE1	10:B:426:LYS:HE3	0.76	0.75
8:G:146:ASP:O	8:G:151:LEU:N	2.19	0.75
9:O:17:LEU:HD11	9:O:21:ILE:HD12	1.67	0.75
9:O:163:LEU:HD23	9:O:181:ILE:HB	1.69	0.75
9:O:475:ARG:HA	9:O:478:THR:HG22	1.68	0.75
5:Q:66:PRO:CG	9:O:2:SER:C	2.60	0.75
9:O:12:GLU:HG2	9:O:16:LYS:NZ	2.01	0.75
10:B:67:TRP:HZ2	10:B:70:LYS:HD2	1.49	0.75
3:H:25:LEU:HD11	7:C:118:LEU:CG	2.14	0.75
6:R:20:LYS:HG3	9:O:641:ASN:ND2	1.99	0.75
8:G:66:LEU:HD21	8:G:88:LEU:HD21	1.67	0.75
2:D:271:ARG:NH2	8:G:137:TYR:HE2	1.67	0.75
3:H:120:LEU:HD21	7:C:343:GLU:HG3	1.67	0.75
9:O:167:ILE:HG22	9:O:171:ARG:NH1	2.02	0.75
9:O:327:THR:HG23	9:O:346:VAL:HG21	1.69	0.75
10:B:269:GLY:O	10:B:273:ARG:HG3	1.85	0.75
5:Q:68:HIS:N	9:O:1:MET:CE	2.50	0.75
6:R:35:TRP:CB	9:O:514:ALA:CB	2.62	0.75
8:G:35:LEU:O	8:G:95:LYS:NZ	2.20	0.75
10:B:164:GLU:HG2	10:B:167:LYS:HD2	1.68	0.75
8:G:68:ASN:O	8:G:72:TYR:N	2.18	0.75
6:R:30:VAL:N	9:O:558:TYR:OH	2.19	0.75
9:O:629:LYS:NZ	9:O:633:ASP:HA	2.01	0.74
3:H:25:LEU:HD23	7:C:118:LEU:HD23	1.63	0.74
3:H:29:GLY:N	7:C:119:ARG:CZ	2.51	0.74
5:Q:47:SER:HB2	9:O:39:PHE:HE2	1.48	0.74
8:G:124:ASN:N	8:G:127:GLU:OE2	2.19	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:B:298:GLU:HB2	10:B:302:TYR:CE2	2.22	0.74
6:R:22:PHE:HD2	9:O:581:GLN:HG2	1.51	0.74
9:O:669:ARG:HD2	9:O:672:VAL:CG1	2.18	0.74
10:B:14:GLU:HB2	10:B:67:TRP:CZ2	2.23	0.74
10:B:108:SER:O	10:B:112:ILE:HG12	1.88	0.74
10:B:123:LYS:HG3	10:B:126:ASP:CG	2.13	0.74
5:Q:64:GLU:HG3	9:O:49:TYR:CG	2.08	0.74
8:G:117:LEU:HD21	8:G:128:LEU:HD22	1.68	0.74
9:O:163:LEU:HD12	9:O:185:ILE:HD13	1.65	0.74
9:O:169:ASN:CB	9:O:249:ARG:NH1	2.50	0.74
5:Q:61:ASN:C	9:O:46:CYS:HB2	2.12	0.74
5:Q:66:PRO:N	9:O:3:LEU:HB2	2.03	0.74
9:O:729:GLN:HA	9:O:744:VAL:HG12	1.69	0.74
1:A:418:VAL:HG22	10:B:401:ARG:HH21	1.50	0.74
5:Q:61:ASN:N	9:O:42:ILE:HG22	2.03	0.74
8:G:1:MET:HB3	8:G:12:LEU:HD21	1.70	0.74
10:B:137:GLU:HA	10:B:140:LYS:HZ2	1.52	0.74
9:O:20:THR:HG21	9:O:41:ASP:CG	2.11	0.74
9:O:163:LEU:HD21	9:O:181:ILE:C	2.10	0.74
9:O:167:ILE:HA	9:O:253:TYR:OH	1.85	0.74
9:O:308:LEU:HB2	9:O:309:PRO:HD3	1.70	0.74
9:O:408:GLU:H	10:B:105:ARG:NH1	1.85	0.74
10:B:314:LEU:HD11	10:B:337:ILE:HD12	1.68	0.74
10:B:388:LEU:O	10:B:388:LEU:HD13	1.86	0.74
5:Q:68:HIS:H	9:O:1:MET:HE1	1.51	0.74
6:R:31:ALA:HB2	9:O:558:TYR:CE2	2.22	0.74
8:G:136:VAL:HG12	8:G:141:ILE:HB	1.70	0.74
9:O:327:THR:HG22	9:O:343:VAL:HA	1.68	0.74
6:R:21:ARG:HH11	9:O:585:LEU:CD2	1.91	0.74
3:H:26:GLU:C	7:C:119:ARG:HD2	2.12	0.73
5:Q:61:ASN:H	9:O:42:ILE:HG22	1.53	0.73
8:G:133:ILE:O	8:G:137:TYR:HB2	1.87	0.73
9:O:80:GLU:O	9:O:83:VAL:HG22	1.88	0.73
10:B:359:LEU:O	10:B:363:ILE:HG13	1.87	0.73
6:R:33:TRP:CE3	6:R:34:ALA:HB2	2.24	0.73
9:O:45:LEU:HD23	9:O:108:LEU:CD2	2.17	0.73
9:O:151:MET:SD	9:O:187:SER:O	2.47	0.73
9:O:178:GLN:HA	9:O:181:ILE:HG12	1.70	0.73
9:O:487:ASN:HD21	9:O:509:ILE:HG22	1.52	0.73
9:O:512:LEU:CD2	9:O:556:LEU:HB3	2.13	0.73
10:B:198:TYR:O	10:B:202:ILE:HG12	1.87	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:495:VAL:CB	7:C:169:ILE:CD1	2.64	0.73
5:Q:66:PRO:HD2	9:O:2:SER:N	2.03	0.73
9:O:494:ILE:HG13	9:O:495:LYS:HG3	1.69	0.73
9:O:530:PRO:CD	9:O:533:LEU:HD12	2.18	0.73
10:B:160:LEU:HD13	10:B:203:GLN:HG2	1.71	0.73
10:B:298:GLU:HB2	10:B:302:TYR:HE2	1.54	0.73
1:A:494:ALA:HB2	7:C:167:MET:HA	1.66	0.73
2:D:392:ALA:CB	8:G:162:ILE:CB	2.67	0.73
6:R:35:TRP:CE3	9:O:514:ALA:HB3	2.19	0.73
6:R:72:TRP:O	10:B:300:LYS:HD2	1.89	0.73
10:B:7:ASP:CG	10:B:77:LYS:HE3	2.13	0.73
10:B:221:SER:O	10:B:224:ILE:HG12	1.89	0.73
6:R:25:LYS:HE3	9:O:577:VAL:O	1.89	0.73
9:O:455:GLU:HA	9:O:458:ILE:HD12	1.71	0.73
1:A:495:VAL:HA	7:C:169:ILE:HD12	1.68	0.73
1:A:497:ARG:HD2	7:C:397:ILE:CG1	2.19	0.73
2:D:161:PRO:O	2:D:165:GLU:HB2	1.88	0.73
2:D:377:LEU:HD22	8:G:177:TRP:CH2	2.05	0.73
2:D:386:GLU:CB	8:G:4:GLU:HB3	2.17	0.73
8:G:201:GLN:HE21	8:G:205:LEU:HD11	1.53	0.73
9:O:419:ILE:HG13	9:O:460:LYS:HB3	1.71	0.73
10:B:290:GLY:HA3	10:B:319:GLN:OE1	1.88	0.73
9:O:648:ARG:HB2	9:O:651:PHE:O	1.88	0.72
7:C:399:VAL:HG12	7:C:400:ASN:CG	2.13	0.72
9:O:170:ASP:CG	9:O:249:ARG:CB	2.62	0.72
3:H:207:LEU:HD12	7:C:376:ILE:CD1	2.19	0.72
7:C:399:VAL:O	7:C:400:ASN:CB	2.37	0.72
9:O:24:VAL:CG1	9:O:100:TYR:HB2	2.20	0.72
9:O:87:TYR:HA	9:O:90:TYR:HD2	1.53	0.72
9:O:185:ILE:HA	9:O:188:PHE:CD2	2.24	0.72
10:B:139:LEU:CD1	10:B:148:TRP:HA	2.05	0.72
2:D:354:GLN:HB2	10:B:366:TYR:HE1	1.55	0.72
6:R:35:TRP:CG	9:O:514:ALA:HB1	2.07	0.72
9:O:327:THR:HG22	9:O:342:SER:O	1.90	0.72
9:O:407:THR:HG22	10:B:100:ARG:HH12	1.55	0.72
9:O:415:LEU:HA	9:O:418:PHE:HD2	1.54	0.72
10:B:143:LYS:N	10:B:143:LYS:HE3	2.05	0.72
9:O:38:ARG:NH1	9:O:100:TYR:HB3	2.05	0.72
9:O:148:ARG:HH22	9:O:196:LYS:HE3	1.53	0.72
3:H:125:TYR:OH	7:C:339:LEU:HD13	1.89	0.72
9:O:548:PHE:HB3	9:O:551:ARG:HB2	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:B:146:ARG:HH11	10:B:189:LYS:HD3	1.50	0.72
3:H:59:ARG:HD3	7:C:152:ALA:HA	1.72	0.72
10:B:175:LEU:O	10:B:178:SER:HB3	1.90	0.72
9:O:243:LEU:HD13	9:O:263:ILE:CG2	2.20	0.72
9:O:687:ILE:HG23	9:O:706:GLN:NE2	2.04	0.72
9:O:691:ARG:CZ	9:O:694:LEU:HD22	2.19	0.72
9:O:490:PHE:HD1	9:O:543:PHE:HB2	1.54	0.72
9:O:722:ILE:HD13	9:O:726:ILE:HD12	1.70	0.72
10:B:8:PHE:CE2	10:B:43:LYS:HG2	2.25	0.72
10:B:18:LEU:HD12	10:B:65:GLY:O	1.90	0.72
6:R:25:LYS:HG3	9:O:576:MET:CG	2.19	0.71
9:O:38:ARG:HB3	9:O:104:LEU:HD21	1.71	0.71
9:O:84:LEU:HG	9:O:159:LEU:HD12	1.72	0.71
1:A:417:TYR:CD1	10:B:402:ILE:O	2.43	0.71
5:Q:48:GLY:CA	9:O:32:ARG:NH1	2.48	0.71
10:B:135:THR:O	10:B:139:LEU:HG	1.90	0.71
10:B:315:VAL:O	10:B:319:GLN:HG2	1.90	0.71
8:G:97:LYS:NZ	8:G:120:LEU:O	2.24	0.71
9:O:529:ILE:HA	9:O:533:LEU:HD12	1.72	0.71
10:B:176:HIS:NE2	10:B:181:THR:HG21	2.05	0.71
1:A:491:LEU:HD12	7:C:203:TYR:OH	1.91	0.71
8:G:94:ASN:O	8:G:98:HIS:ND1	2.24	0.71
8:G:194:ARG:O	8:G:198:HIS:N	2.22	0.71
9:O:335:MET:HB3	9:O:338:LEU:HG	1.73	0.71
10:B:327:GLU:O	10:B:331:LYS:HG2	1.90	0.71
8:G:47:LEU:HD13	8:G:52:VAL:HG12	1.71	0.71
9:O:24:VAL:HG22	9:O:30:VAL:CG1	2.20	0.71
9:O:395:CYS:O	9:O:399:LEU:HD23	1.90	0.71
9:O:81:GLU:HA	9:O:84:LEU:CD1	2.16	0.71
9:O:327:THR:CG2	9:O:343:VAL:HA	2.20	0.71
9:O:409:ASN:HA	9:O:412:GLU:HG3	1.73	0.71
2:D:61:ILE:HD11	9:O:598:GLU:CG	2.21	0.71
2:D:271:ARG:NH2	8:G:137:TYR:HD2	1.84	0.71
8:G:172:ARG:HH21	8:G:175:GLN:HB2	1.56	0.71
9:O:563:GLU:HG3	9:O:574:VAL:HG13	1.72	0.71
10:B:18:LEU:CB	10:B:67:TRP:HD1	2.04	0.71
10:B:137:GLU:HA	10:B:140:LYS:NZ	2.05	0.71
9:O:73:HIS:HA	9:O:150:LEU:HD11	1.72	0.71
9:O:408:GLU:HG3	10:B:105:ARG:NH2	2.06	0.71
9:O:494:ILE:HG13	9:O:495:LYS:N	2.06	0.71
10:B:211:ASN:HD22	10:B:247:ARG:HE	1.36	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:B:78:ILE:HG23	10:B:82:LEU:CB	2.20	0.71
2:D:396:THR:H	8:G:45:GLU:HG2	1.55	0.70
10:B:136:LEU:HA	10:B:139:LEU:HD12	1.73	0.70
10:B:403:ASP:OD1	10:B:405:VAL:HG12	1.91	0.70
1:A:495:VAL:HG12	7:C:169:ILE:HD12	1.58	0.70
9:O:163:LEU:HD11	9:O:185:ILE:HD13	1.69	0.70
9:O:169:ASN:C	9:O:249:ARG:CD	2.48	0.70
1:A:478:MET:CE	10:B:426:LYS:CD	2.69	0.70
6:R:18:LYS:O	9:O:568:TYR:HB3	1.90	0.70
9:O:163:LEU:CD1	9:O:188:PHE:CE2	2.71	0.70
9:O:490:PHE:CE1	9:O:540:PHE:HA	2.26	0.70
9:O:537:VAL:O	9:O:540:PHE:HB3	1.91	0.70
9:O:574:VAL:CG2	10:B:12:ASP:C	2.63	0.70
9:O:703:VAL:O	9:O:706:GLN:HG2	1.92	0.70
10:B:275:THR:HA	10:B:278:LYS:HD2	1.73	0.70
9:O:195:LYS:HE3	9:O:197:LYS:HB2	1.73	0.70
9:O:408:GLU:CG	10:B:105:ARG:NH1	2.45	0.70
1:A:486:ALA:HB1	7:C:386:LEU:CD1	2.18	0.70
8:G:70:PHE:O	8:G:160:ARG:NH2	2.24	0.70
10:B:84:ASN:HD21	10:B:85:PHE:HD1	1.36	0.70
10:B:381:ASP:O	10:B:385:VAL:HG23	1.91	0.70
1:A:478:MET:HE1	10:B:426:LYS:CD	2.20	0.70
8:G:27:LEU:HD21	8:G:55:LEU:HG	1.73	0.70
5:Q:60:VAL:HA	9:O:42:ILE:HG21	1.73	0.70
9:O:192:GLU:HG3	9:O:199:PRO:O	1.91	0.70
9:O:399:LEU:CD1	9:O:454:GLU:HG2	2.15	0.70
10:B:79:ASN:HA	10:B:83:THR:O	1.92	0.70
3:H:28:PRO:CA	7:C:119:ARG:NH1	2.39	0.70
7:C:399:VAL:C	7:C:400:ASN:CB	2.64	0.70
9:O:164:LEU:CA	9:O:207:PHE:HZ	2.01	0.70
9:O:509:ILE:HD11	9:O:512:LEU:HD11	1.74	0.70
2:D:387:LYS:CD	8:G:159:GLY:CA	2.53	0.70
3:H:55:TYR:O	7:C:153:LYS:HB2	1.69	0.70
10:B:334:HIS:HA	10:B:338:MET:HB2	1.74	0.70
6:R:18:LYS:O	9:O:568:TYR:HB2	1.91	0.69
8:G:142:GLN:HG2	8:G:143:GLY:H	1.57	0.69
9:O:610:LEU:HD12	9:O:613:THR:OG1	1.92	0.69
6:R:25:LYS:CG	9:O:576:MET:SD	2.80	0.69
9:O:348:GLY:O	9:O:351:VAL:HG12	1.92	0.69
2:D:355:ILE:CG1	10:B:370:HIS:CE1	2.71	0.69
5:Q:69:VAL:CB	9:O:1:MET:CG	2.69	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:O:281:GLU:HB3	9:O:297:MET:HE1	1.73	0.69
9:O:408:GLU:H	10:B:105:ARG:HH12	1.39	0.69
10:B:187:ASP:OD2	10:B:192:THR:HG23	1.92	0.69
10:B:215:LYS:NZ	10:B:244:MET:HE3	2.07	0.69
10:B:317:ALA:HA	10:B:320:ASN:ND2	2.07	0.69
1:A:495:VAL:HG12	7:C:169:ILE:CG1	2.17	0.69
9:O:64:PHE:HA	9:O:67:ASN:OD1	1.92	0.69
9:O:325:ARG:HA	9:O:329:ASN:HB2	1.74	0.69
9:O:456:ALA:N	10:B:188:LEU:HD11	2.07	0.69
9:O:732:GLU:O	9:O:741:TYR:HB2	1.92	0.69
10:B:77:LYS:HE2	10:B:118:TYR:CD1	2.26	0.69
10:B:95:LEU:O	10:B:98:TYR:HB2	1.92	0.69
10:B:328:LYS:HA	10:B:331:LYS:CE	2.22	0.69
2:D:317:ASN:HD21	8:G:144:LYS:CD	2.00	0.69
5:Q:61:ASN:HB2	9:O:43:TYR:CA	2.16	0.69
9:O:555:TRP:HE1	9:O:557:HIS:CE1	2.11	0.69
1:A:456:HIS:CD2	7:C:357:MET:CG	2.69	0.69
9:O:13:THR:HG21	9:O:48:ALA:HB2	1.74	0.69
9:O:165:ARG:O	9:O:168:LYS:HB3	1.92	0.69
10:B:66:GLU:OE2	10:B:69:PHE:HB2	1.92	0.69
1:A:340:GLN:O	1:A:344:ARG:HB2	1.91	0.69
3:H:125:TYR:OH	7:C:339:LEU:CD2	2.41	0.69
8:G:98:HIS:HD2	8:G:135:ALA:HB2	1.58	0.69
9:O:166:GLU:OE1	9:O:181:ILE:HD12	1.92	0.69
10:B:147:LEU:H	10:B:147:LEU:HD12	1.57	0.69
10:B:420:ARG:C	10:B:424:LEU:HD13	2.16	0.69
8:G:7:PRO:HD3	8:G:40:VAL:N	2.08	0.69
10:B:195:LEU:HD21	10:B:224:ILE:HG23	1.75	0.69
1:A:126:PHE:HB2	1:A:210:ASP:HB3	1.74	0.69
2:D:396:THR:H	8:G:45:GLU:CG	2.04	0.69
9:O:157:ALA:O	9:O:161:ARG:HG2	1.93	0.69
9:O:166:GLU:OE1	9:O:181:ILE:CD1	2.40	0.69
9:O:267:GLN:HB3	9:O:304:VAL:CG1	2.23	0.69
9:O:420:THR:HA	9:O:423:LYS:HE3	1.74	0.69
10:B:104:THR:OG1	10:B:107:TYR:HB3	1.92	0.69
10:B:171:ILE:O	10:B:175:LEU:HD23	1.92	0.69
1:A:417:TYR:CA	10:B:402:ILE:H	2.00	0.68
9:O:574:VAL:HG21	10:B:13:GLU:C	2.17	0.68
9:O:574:VAL:HG21	10:B:12:ASP:C	2.17	0.68
10:B:87:GLU:HG3	10:B:91:ARG:HG3	1.75	0.68
1:A:455:SER:N	7:C:316:THR:N	2.29	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:392:ALA:HB1	8:G:43:PHE:CA	2.24	0.68
2:D:396:THR:N	8:G:45:GLU:HG2	2.08	0.68
8:G:41:TYR:HB3	8:G:70:PHE:CG	2.28	0.68
10:B:159:TYR:HE1	10:B:162:ARG:HH11	1.39	0.68
8:G:116:LEU:HA	8:G:119:ASP:OD1	1.93	0.68
9:O:452:ASP:C	10:B:188:LEU:HD22	2.13	0.68
2:D:317:ASN:ND2	8:G:144:LYS:HB2	2.08	0.68
2:D:394:GLU:CD	8:G:48:GLU:H	1.97	0.68
8:G:18:LEU:O	8:G:22:THR:N	2.20	0.68
8:G:71:ALA:HB2	8:G:164:LYS:HZ2	1.59	0.68
8:G:99:LEU:HD23	8:G:160:ARG:HD2	1.75	0.68
9:O:486:LEU:HA	9:O:489:LYS:HD2	1.73	0.68
9:O:511:VAL:HG13	9:O:513:GLN:HG2	1.75	0.68
10:B:18:LEU:HD13	10:B:67:TRP:CB	2.22	0.68
3:H:25:LEU:HB3	7:C:119:ARG:N	2.09	0.68
9:O:160:ILE:HD11	9:O:206:ILE:CG2	2.23	0.68
8:G:7:PRO:HG3	8:G:37:ALA:HB1	1.74	0.68
8:G:36:GLU:HA	8:G:95:LYS:NZ	2.08	0.68
9:O:401:LYS:HA	9:O:401:LYS:CE	2.19	0.68
9:O:658:GLN:O	9:O:662:PRO:HD2	1.93	0.68
10:B:12:ASP:HA	10:B:43:LYS:HE2	1.76	0.68
10:B:25:ASN:CA	10:B:28:PRO:HD2	2.23	0.68
10:B:328:LYS:HA	10:B:331:LYS:HE2	1.74	0.68
1:A:454:ASP:OD1	7:C:316:THR:OG1	0.68	0.68
1:A:482:PHE:CD2	7:C:383:CYS:SG	2.87	0.68
2:D:380:GLN:HG3	8:G:156:PHE:CE1	2.27	0.68
5:Q:62:PHE:N	9:O:46:CYS:CB	2.53	0.68
8:G:41:TYR:HB2	8:G:161:ASP:CG	2.19	0.68
9:O:326:ALA:HB3	9:O:346:VAL:HG22	1.76	0.68
8:G:110:CYS:HB3	8:G:151:LEU:HB3	1.76	0.67
9:O:353:LEU:O	9:O:356:THR:HG22	1.94	0.67
9:O:648:ARG:CG	9:O:652:LYS:HD2	2.25	0.67
10:B:218:TYR:O	10:B:222:LEU:HD12	1.93	0.67
9:O:622:MET:HE2	9:O:655:THR:OG1	1.94	0.67
1:A:454:ASP:HA	7:C:315:LEU:CB	2.21	0.67
10:B:95:LEU:CA	10:B:98:TYR:HD2	2.08	0.67
10:B:159:TYR:CD1	10:B:162:ARG:HD3	2.29	0.67
8:G:75:TYR:HB2	8:G:96:LEU:C	2.19	0.67
10:B:180:GLN:HG2	10:B:185:GLU:HG3	1.76	0.67
10:B:330:LEU:HD11	10:B:347:ILE:HD11	1.75	0.67
6:R:35:TRP:CB	9:O:554:THR:HG21	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:66:LEU:HD13	8:G:85:LEU:HD13	1.76	0.67
9:O:65:LEU:HD21	9:O:94:TYR:OH	1.95	0.67
9:O:614:ILE:O	9:O:618:LEU:HD13	1.94	0.67
10:B:12:ASP:HA	10:B:15:ASP:OD2	1.94	0.67
8:G:104:LEU:HD12	8:G:116:LEU:HD11	1.77	0.67
9:O:227:LEU:HD12	9:O:235:TYR:HB3	1.75	0.67
10:B:11:ASP:HA	10:B:67:TRP:HH2	1.59	0.67
8:G:71:ALA:HB1	8:G:164:LYS:H	1.58	0.67
8:G:129:GLU:HA	8:G:132:ILE:HD12	1.76	0.67
1:A:489:MET:HE1	7:C:390:LEU:HD23	1.72	0.67
10:B:78:ILE:HG23	10:B:82:LEU:HD12	1.77	0.67
1:A:343:GLN:OE1	10:B:394:LEU:HD21	1.95	0.67
5:Q:64:GLU:OE2	9:O:50:PRO:CD	2.42	0.67
9:O:688:MET:HE1	9:O:718:ILE:HG23	1.77	0.67
10:B:11:ASP:HA	10:B:67:TRP:CH2	2.30	0.67
1:A:494:ALA:HB2	7:C:167:MET:CA	2.25	0.67
9:O:170:ASP:HB2	9:O:249:ARG:CD	2.24	0.67
9:O:663:GLN:HG2	9:O:667:GLN:HE21	1.60	0.67
10:B:63:GLU:HB2	10:B:104:THR:CG2	2.25	0.67
10:B:146:ARG:NH2	10:B:192:THR:HG22	2.10	0.67
10:B:232:LEU:HD11	10:B:268:SER:HA	1.75	0.67
1:A:454:ASP:CA	7:C:315:LEU:CD2	2.70	0.66
9:O:163:LEU:CD2	9:O:181:ILE:C	2.67	0.66
10:B:51:LEU:H	10:B:51:LEU:HD12	1.60	0.66
10:B:420:ARG:HB3	10:B:424:LEU:HD11	1.77	0.66
2:D:392:ALA:HB1	8:G:42:VAL:O	1.92	0.66
9:O:85:VAL:H	9:O:180:VAL:CG2	2.07	0.66
9:O:319:ILE:HG12	9:O:350:PHE:CD1	2.30	0.66
9:O:388:PRO:CG	9:O:427:ASP:HB2	2.23	0.66
9:O:475:ARG:HA	9:O:478:THR:CG2	2.25	0.66
9:O:728:LYS:HB2	9:O:728:LYS:NZ	2.10	0.66
10:B:25:ASN:C	10:B:28:PRO:HD2	2.19	0.66
2:D:365:GLU:OE1	8:G:153:GLU:CD	2.39	0.66
6:R:28:ASN:CA	9:O:558:TYR:CD1	2.51	0.66
9:O:51:GLU:HB2	9:O:52:PRO:HD3	1.77	0.66
9:O:283:HIS:HA	9:O:286:ILE:HD12	1.76	0.66
10:B:76:ILE:HD11	10:B:115:ILE:HG12	1.76	0.66
10:B:140:LYS:HE2	10:B:140:LYS:N	2.10	0.66
10:B:172:LEU:HD13	10:B:201:GLU:HG2	1.78	0.66
2:D:392:ALA:HB2	8:G:42:VAL:C	2.19	0.66
3:H:208:GLU:HG3	10:B:422:THR:HG22	1.74	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:62:PHE:CE1	9:O:107:TYR:HE1	2.09	0.66
8:G:17:LEU:HD13	8:G:20:LYS:HD2	1.78	0.66
8:G:160:ARG:HB3	8:G:163:ARG:NH2	2.10	0.66
2:D:318:ASN:ND2	8:G:148:ARG:HB2	2.10	0.66
9:O:430:VAL:O	9:O:434:PHE:HB3	1.96	0.66
10:B:420:ARG:HB3	10:B:424:LEU:HD13	1.76	0.66
5:Q:24:SER:CB	9:O:3:LEU:CD2	2.62	0.66
9:O:439:LEU:HA	9:O:442:ARG:HG2	1.78	0.66
9:O:669:ARG:O	9:O:672:VAL:HG12	1.95	0.66
10:B:31:ASP:OD2	10:B:62:GLY:HA3	1.95	0.66
1:A:273:GLU:HB3	1:A:279:GLN:HB2	1.77	0.66
1:A:417:TYR:OH	10:B:386:GLU:OE2	2.13	0.66
8:G:49:LEU:HG	8:G:51:ASN:H	1.59	0.66
10:B:47:PRO:HB2	10:B:82:LEU:HD11	1.77	0.66
10:B:195:LEU:CD1	10:B:229:PRO:HD2	2.26	0.66
10:B:300:LYS:O	10:B:303:LYS:HG2	1.95	0.66
1:A:339:ARG:HE	10:B:394:LEU:HD13	1.59	0.66
1:A:491:LEU:HD21	7:C:166:MET:N	2.11	0.66
6:R:35:TRP:HB2	9:O:554:THR:CG2	2.25	0.66
8:G:108:MET:SD	8:G:111:ILE:HD13	2.36	0.66
5:Q:66:PRO:CD	9:O:3:LEU:CB	2.74	0.66
7:C:399:VAL:C	7:C:401:PRO:CD	2.68	0.66
9:O:170:ASP:CB	9:O:249:ARG:HB3	2.26	0.66
1:A:483:GLN:OE1	7:C:379:GLU:OE2	2.13	0.66
5:Q:61:ASN:HB2	9:O:42:ILE:O	1.96	0.66
5:Q:61:ASN:N	9:O:42:ILE:CG2	2.59	0.66
10:B:292:ASN:CB	10:B:295:ASP:HB2	2.26	0.66
10:B:355:ARG:NH2	10:B:380:ILE:HB	2.11	0.66
8:G:66:LEU:HD11	8:G:96:LEU:HD21	1.78	0.65
9:O:574:VAL:CG2	10:B:16:TYR:CD1	2.48	0.65
10:B:133:GLU:O	10:B:137:GLU:HG3	1.96	0.65
1:A:480:LYS:HZ2	7:C:379:GLU:CD	2.04	0.65
2:D:60:VAL:HG21	9:O:602:SER:O	1.95	0.65
2:D:392:ALA:CA	8:G:40:VAL:HG13	2.26	0.65
8:G:191:GLN:HA	8:G:194:ARG:HD3	1.77	0.65
1:A:501:HIS:CB	7:C:212:PRO:HG2	2.27	0.65
8:G:96:LEU:O	8:G:99:LEU:HB2	1.95	0.65
9:O:548:PHE:CD1	9:O:551:ARG:HD3	2.31	0.65
1:A:418:VAL:HG22	10:B:401:ARG:NH2	2.08	0.65
1:A:419:SER:CB	10:B:403:ASP:OD1	2.43	0.65
8:G:116:LEU:HD12	8:G:120:LEU:CD1	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:B:219:GLU:CA	10:B:222:LEU:HD13	2.22	0.65
8:G:1:MET:N	8:G:9:SER:OG	2.23	0.65
9:O:84:LEU:HB3	9:O:180:VAL:CA	2.27	0.65
9:O:84:LEU:HD23	9:O:181:ILE:HA	1.78	0.65
9:O:480:MET:HA	9:O:510:TYR:CE1	2.32	0.65
9:O:669:ARG:HA	9:O:672:VAL:HG12	1.77	0.65
10:B:84:ASN:ND2	10:B:85:PHE:H	1.94	0.65
8:G:67:LEU:HA	8:G:70:PHE:HD2	1.62	0.65
9:O:382:LYS:HD2	9:O:382:LYS:N	2.10	0.65
2:D:271:ARG:CZ	8:G:137:TYR:CD2	2.74	0.65
2:D:386:GLU:HG2	8:G:4:GLU:CD	2.22	0.65
8:G:110:CYS:SG	8:G:153:GLU:HA	2.36	0.65
9:O:164:LEU:HD21	9:O:207:PHE:CD2	1.94	0.65
9:O:456:ALA:HB3	10:B:188:LEU:HD12	1.60	0.65
9:O:559:LEU:O	9:O:561:THR:HG23	1.97	0.65
10:B:312:THR:O	10:B:315:VAL:HG12	1.97	0.65
1:A:480:LYS:HD3	7:C:379:GLU:OE1	1.97	0.65
3:H:206:PHE:CD1	7:C:380:MET:CG	2.78	0.65
9:O:311:MET:O	9:O:315:LEU:HD23	1.97	0.65
9:O:327:THR:HA	9:O:342:SER:HB3	1.79	0.65
5:Q:68:HIS:CA	9:O:1:MET:SD	2.85	0.65
9:O:325:ARG:HD3	9:O:325:ARG:H	1.62	0.65
9:O:474:HIS:ND1	10:B:230:HIS:CD2	2.64	0.65
1:A:495:VAL:CG1	7:C:169:ILE:CD1	2.08	0.65
2:D:387:LYS:CE	8:G:159:GLY:CA	2.74	0.65
9:O:84:LEU:HB3	9:O:180:VAL:CG1	0.80	0.65
9:O:565:LYS:HB3	10:B:12:ASP:OD2	1.96	0.65
10:B:76:ILE:HD11	10:B:115:ILE:CD1	2.27	0.65
8:G:24:GLY:O	8:G:28:THR:HG23	1.97	0.64
9:O:84:LEU:HB3	9:O:180:VAL:HG12	0.95	0.64
9:O:174:GLU:HA	9:O:249:ARG:HH12	1.60	0.64
10:B:76:ILE:HD11	10:B:115:ILE:CG1	2.26	0.64
9:O:170:ASP:CB	9:O:249:ARG:CB	2.75	0.64
10:B:149:PHE:HD1	10:B:175:LEU:CD1	2.10	0.64
10:B:392:CYS:O	10:B:395:ASP:HB2	1.97	0.64
5:Q:61:ASN:HB2	9:O:42:ILE:C	2.21	0.64
5:Q:63:ARG:N	9:O:46:CYS:O	2.30	0.64
9:O:170:ASP:HB2	9:O:249:ARG:HB3	1.79	0.64
9:O:202:PHE:HA	9:O:205:GLU:HG2	1.78	0.64
10:B:76:ILE:HD12	10:B:115:ILE:CG2	2.27	0.64
2:D:232:CYS:O	2:D:242:ARG:NH2	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:66:PRO:CD	9:O:3:LEU:HB2	2.28	0.64
5:Q:68:HIS:H	9:O:1:MET:CE	2.10	0.64
9:O:44:ALA:O	9:O:47:VAL:HG12	1.96	0.64
9:O:84:LEU:CB	9:O:180:VAL:HG13	0.75	0.64
9:O:148:ARG:NH2	9:O:196:LYS:HE3	2.11	0.64
9:O:688:MET:SD	9:O:717:MET:HE2	2.37	0.64
5:Q:99:ILE:HB	5:Q:102:GLU:HB2	1.78	0.64
1:A:339:ARG:HA	1:A:342:LEU:HB2	1.79	0.64
8:G:209:ILE:O	8:G:213:VAL:HG23	1.97	0.64
9:O:431:PHE:HE2	9:O:461:LEU:HD11	1.60	0.64
10:B:30:VAL:HG11	10:B:60:LEU:CD1	2.28	0.64
10:B:48:LYS:HD3	10:B:48:LYS:H	1.62	0.64
1:A:501:HIS:HB3	7:C:212:PRO:HG2	1.79	0.64
8:G:18:LEU:HB2	8:G:30:LEU:HD13	1.79	0.64
9:O:537:VAL:HG23	9:O:538:GLN:N	2.13	0.64
9:O:681:GLN:O	9:O:685:VAL:HG23	1.97	0.64
1:A:495:VAL:HA	7:C:169:ILE:CD1	2.28	0.64
3:H:55:TYR:CZ	7:C:155:PHE:HZ	2.16	0.64
8:G:69:LEU:HD22	8:G:85:LEU:CD1	2.28	0.64
9:O:50:PRO:HA	9:O:53:LEU:HB2	1.79	0.64
1:A:417:TYR:CG	10:B:402:ILE:O	2.51	0.64
2:D:60:VAL:HB	9:O:602:SER:HA	1.80	0.64
8:G:72:TYR:CE2	8:G:164:LYS:HB2	2.33	0.64
8:G:112:PRO:HD2	8:G:115:VAL:HG21	1.80	0.64
9:O:494:ILE:HD12	9:O:501:ILE:CG2	2.28	0.64
9:O:571:LYS:HD2	9:O:573:TYR:OH	1.97	0.64
9:O:578:THR:HG22	9:O:579:THR:N	2.12	0.64
9:O:724:VAL:HG23	9:O:725:LEU:N	2.13	0.64
1:A:299:TYR:HH	1:A:397:HIS:HD1	1.45	0.64
8:G:133:ILE:HA	8:G:136:VAL:HG22	1.80	0.64
9:O:41:ASP:O	9:O:45:LEU:HD13	1.98	0.64
9:O:502:ASP:OD1	9:O:535:LYS:HG2	1.97	0.64
10:B:42:LEU:HD22	10:B:74:GLN:HG3	1.79	0.64
9:O:475:ARG:CA	9:O:478:THR:HG22	2.28	0.63
10:B:314:LEU:HD23	10:B:329:ILE:HD11	1.81	0.63
2:D:95:ARG:NH2	9:O:529:ILE:O	2.29	0.63
3:H:208:GLU:HG2	10:B:422:THR:CB	2.28	0.63
8:G:142:GLN:HB2	8:G:156:PHE:HB3	1.79	0.63
9:O:170:ASP:CB	9:O:249:ARG:CD	2.68	0.63
9:O:175:ASP:CB	9:O:252:LYS:HD3	2.29	0.63
10:B:292:ASN:HA	10:B:295:ASP:OD2	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:491:LEU:CD2	7:C:165:ASP:C	2.66	0.63
2:D:394:GLU:HG3	8:G:48:GLU:CB	2.29	0.63
3:H:28:PRO:C	7:C:119:ARG:CZ	2.71	0.63
3:H:114:ARG:HG3	3:H:137:VAL:HB	1.80	0.63
3:H:207:LEU:HD12	7:C:376:ILE:HD11	1.79	0.63
8:G:38:PRO:HA	8:G:41:TYR:CE1	2.33	0.63
9:O:78:GLU:CB	9:O:83:VAL:HG12	2.22	0.63
9:O:276:GLN:HA	9:O:279:HIS:CE1	2.33	0.63
9:O:428:LYS:HD2	9:O:469:PHE:CZ	2.33	0.63
9:O:692:LYS:HE2	9:O:731:ILE:HD12	1.79	0.63
10:B:37:TYR:CD1	10:B:56:LYS:HD3	2.33	0.63
8:G:69:LEU:HD22	8:G:85:LEU:HD11	1.80	0.63
9:O:70:ARG:NH2	9:O:149:LYS:HB2	2.14	0.63
9:O:462:LYS:HE3	10:B:228:ILE:CD1	2.19	0.63
10:B:39:SER:O	10:B:43:LYS:HB2	1.98	0.63
10:B:205:TYR:CE1	10:B:213:LYS:HG3	2.34	0.63
10:B:298:GLU:CD	10:B:298:GLU:H	2.05	0.63
1:A:480:LYS:NZ	7:C:379:GLU:OE1	2.27	0.63
3:H:25:LEU:CB	7:C:119:ARG:CA	2.48	0.63
3:H:207:LEU:CD1	7:C:376:ILE:CD1	2.76	0.63
6:R:24:VAL:HG11	9:O:505:ILE:HG13	1.80	0.63
8:G:66:LEU:HG	8:G:70:PHE:CE2	2.33	0.63
8:G:67:LEU:HG	8:G:164:LYS:NZ	2.13	0.63
9:O:84:LEU:CB	9:O:180:VAL:HG12	1.27	0.63
10:B:79:ASN:CB	10:B:88:MET:HB2	2.28	0.63
10:B:333:ASN:HB3	10:B:336:ASN:HB2	1.81	0.63
3:H:29:GLY:HA2	7:C:119:ARG:HH22	1.63	0.63
8:G:7:PRO:HB3	8:G:38:PRO:HD2	1.81	0.63
9:O:339:PHE:HB2	9:O:390:LEU:CD1	2.29	0.63
9:O:408:GLU:CG	10:B:105:ARG:NE	2.61	0.63
9:O:451:MET:HE2	9:O:451:MET:CA	2.25	0.63
10:B:112:ILE:HA	10:B:115:ILE:HD12	1.79	0.63
6:R:23:GLU:CD	9:O:564:VAL:HG11	2.23	0.63
8:G:146:ASP:HB2	8:G:153:GLU:HG3	1.81	0.63
9:O:81:GLU:OE1	9:O:84:LEU:HD22	1.98	0.63
10:B:165:TYR:CD1	10:B:204:MET:HG3	2.34	0.63
1:A:478:MET:HE1	10:B:426:LYS:NZ	2.13	0.63
3:H:50:MET:HA	3:H:53:ALA:HB3	1.80	0.63
8:G:36:GLU:HA	8:G:95:LYS:HZ2	1.63	0.63
10:B:11:ASP:HB2	10:B:42:LEU:CD2	2.28	0.63
8:G:98:HIS:HA	8:G:101:ILE:CG2	2.26	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:O:84:LEU:CD2	9:O:180:VAL:CG1	2.50	0.63
9:O:145:ASP:O	9:O:148:ARG:HG2	1.99	0.63
9:O:326:ALA:HB3	9:O:346:VAL:CG2	2.28	0.63
9:O:399:LEU:CB	9:O:442:ARG:HH22	2.11	0.63
10:B:180:GLN:HG2	10:B:185:GLU:HA	1.81	0.63
10:B:205:TYR:HD2	10:B:217:LEU:HD11	1.64	0.63
3:H:120:LEU:CD1	7:C:343:GLU:HG3	2.29	0.62
3:H:207:LEU:CD1	7:C:376:ILE:HD11	2.28	0.62
5:Q:61:ASN:CB	9:O:46:CYS:HB2	2.29	0.62
6:R:33:TRP:CD2	6:R:34:ALA:CB	2.78	0.62
6:R:35:TRP:HB3	9:O:514:ALA:HB2	1.73	0.62
9:O:399:LEU:HB3	9:O:442:ARG:HH22	1.63	0.62
9:O:584:VAL:HG21	9:O:638:PHE:HB2	1.80	0.62
10:B:206:THR:O	10:B:209:LYS:HG3	1.98	0.62
3:H:206:PHE:CG	7:C:380:MET:CE	2.69	0.62
3:H:206:PHE:CD2	7:C:376:ILE:HG23	2.33	0.62
6:R:22:PHE:HA	9:O:577:VAL:HG11	1.34	0.62
6:R:33:TRP:HZ2	9:O:514:ALA:O	1.80	0.62
1:A:482:PHE:HD2	7:C:383:CYS:SG	2.22	0.62
1:A:491:LEU:HD21	7:C:165:ASP:CA	2.29	0.62
5:Q:66:PRO:CD	9:O:2:SER:N	2.62	0.62
8:G:136:VAL:HG12	8:G:141:ILE:CB	2.29	0.62
10:B:139:LEU:HB2	10:B:148:TRP:CE3	2.35	0.62
1:A:246:VAL:O	1:A:249:GLN:NE2	2.32	0.62
1:A:494:ALA:HB1	7:C:167:MET:HA	1.81	0.62
3:H:59:ARG:HH11	7:C:152:ALA:HB1	0.59	0.62
9:O:23:ALA:O	9:O:28:GLU:HB2	1.99	0.62
10:B:106:ASN:O	10:B:110:LYS:HG2	1.99	0.62
1:A:454:ASP:CG	7:C:316:THR:HG1	1.92	0.62
10:B:245:HIS:NE2	10:B:253:LYS:HB2	2.14	0.62
8:G:196:ASN:O	8:G:200:GLU:HG3	1.98	0.62
9:O:65:LEU:O	9:O:65:LEU:HD23	1.99	0.62
9:O:178:GLN:HA	9:O:181:ILE:CG1	2.30	0.62
9:O:510:TYR:CG	9:O:559:LEU:HD21	2.34	0.62
2:D:167:TYR:O	2:D:170:ARG:NH2	2.33	0.62
8:G:140:ILE:HG13	8:G:158:ILE:HG12	1.80	0.62
9:O:167:ILE:HD12	9:O:211:PHE:CE1	2.34	0.62
9:O:449:MET:O	10:B:106:ASN:ND2	2.33	0.62
8:G:102:VAL:HG11	8:G:140:ILE:HD13	1.81	0.62
8:G:112:PRO:HA	8:G:151:LEU:HD23	1.80	0.62
9:O:408:GLU:CG	10:B:105:ARG:NH2	2.61	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:O:414:ARG:HG3	9:O:418:PHE:HE2	1.63	0.62
10:B:291:ILE:HG13	10:B:292:ASN:N	2.14	0.62
2:D:318:ASN:HD21	8:G:148:ARG:HB2	1.65	0.62
5:Q:67:SER:C	9:O:1:MET:HE1	2.07	0.62
8:G:70:PHE:HD1	8:G:99:LEU:HD21	1.64	0.62
10:B:76:ILE:HG22	10:B:88:MET:O	2.00	0.62
1:A:103:ILE:HG22	1:A:111:ARG:HE	1.62	0.62
9:O:164:LEU:CA	9:O:207:PHE:CZ	2.77	0.62
10:B:29:ASN:ND2	10:B:30:VAL:H	1.97	0.62
10:B:33:GLU:OE1	10:B:36:TYR:HB2	2.00	0.62
1:A:494:ALA:CB	7:C:168:ASP:N	2.30	0.61
8:G:119:ASP:OD1	8:G:120:LEU:N	2.32	0.61
8:G:142:GLN:HB3	8:G:156:PHE:N	2.15	0.61
9:O:151:MET:HA	9:O:155:LEU:CD2	2.29	0.61
9:O:236:MET:HE3	9:O:300:LEU:CD2	2.30	0.61
9:O:339:PHE:HB2	9:O:390:LEU:HD13	1.81	0.61
10:B:205:TYR:CD2	10:B:217:LEU:HD11	2.34	0.61
1:A:454:ASP:HA	7:C:315:LEU:HD23	1.82	0.61
3:H:30:GLY:HA3	7:C:114:ARG:HH22	1.65	0.61
8:G:18:LEU:CB	8:G:30:LEU:HD13	2.30	0.61
8:G:42:VAL:HG13	8:G:164:LYS:HZ1	1.65	0.61
8:G:57:GLU:HA	8:G:61:ALA:HB2	1.82	0.61
9:O:618:LEU:O	9:O:621:LYS:HD3	2.00	0.61
10:B:146:ARG:HG3	10:B:149:PHE:HD2	1.63	0.61
5:Q:64:GLU:CB	9:O:49:TYR:H	2.06	0.61
8:G:92:GLN:HG2	8:G:95:LYS:NZ	2.16	0.61
9:O:401:LYS:HE3	9:O:449:MET:HA	1.81	0.61
9:O:490:PHE:HE1	9:O:543:PHE:HD2	1.49	0.61
9:O:572:PRO:HG2	10:B:43:LYS:HZ3	1.64	0.61
9:O:700:ILE:HG22	9:O:701:GLN:HG2	1.82	0.61
1:A:100:LEU:O	1:A:103:ILE:HB	2.00	0.61
1:A:454:ASP:N	7:C:315:LEU:CD2	2.63	0.61
1:A:491:LEU:HD22	7:C:166:MET:O	2.00	0.61
8:G:1:MET:CB	8:G:12:LEU:HD21	2.30	0.61
8:G:117:LEU:O	8:G:122:MET:N	2.34	0.61
8:G:204:GLY:O	8:G:208:GLN:HG3	2.01	0.61
9:O:586:LEU:O	9:O:586:LEU:HD23	1.99	0.61
10:B:11:ASP:CG	10:B:42:LEU:HD22	2.24	0.61
10:B:328:LYS:O	10:B:332:THR:HG23	2.01	0.61
8:G:67:LEU:HG	8:G:164:LYS:HZ3	1.64	0.61
8:G:69:LEU:HA	8:G:73:GLY:H	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:98:HIS:CD2	8:G:135:ALA:HB2	2.35	0.61
9:O:155:LEU:CD1	9:O:159:LEU:HD22	2.31	0.61
9:O:326:ALA:O	9:O:342:SER:HB3	2.00	0.61
9:O:684:ILE:HG13	9:O:685:VAL:N	2.16	0.61
10:B:140:LYS:HE2	10:B:148:TRP:HZ3	1.66	0.61
10:B:159:TYR:HA	10:B:162:ARG:HG2	1.82	0.61
2:D:269:LEU:HB3	8:G:137:TYR:CE2	2.35	0.61
5:Q:32:LYS:HB2	5:Q:36:ALA:HB2	1.83	0.61
7:C:370:PRO:O	7:C:373:LEU:N	2.32	0.61
8:G:69:LEU:HD11	8:G:77:ASP:HB2	1.83	0.61
9:O:509:ILE:HD12	9:O:537:VAL:HG12	1.82	0.61
9:O:596:TYR:CE2	9:O:600:GLN:HB2	2.36	0.61
10:B:251:PHE:CE2	10:B:286:LEU:HD13	2.36	0.61
5:Q:66:PRO:CG	9:O:3:LEU:HB2	2.30	0.61
9:O:148:ARG:CB	9:O:191:VAL:HG13	2.31	0.61
9:O:155:LEU:O	9:O:159:LEU:HB3	2.00	0.61
9:O:452:ASP:HA	10:B:188:LEU:HD21	1.81	0.61
9:O:511:VAL:CG1	9:O:513:GLN:HG2	2.31	0.61
10:B:439:VAL:HG13	10:B:440:SER:N	2.16	0.61
4:P:34:ILE:HG22	4:P:35:LEU:HG	1.82	0.61
9:O:456:ALA:HB2	10:B:188:LEU:CG	2.24	0.61
9:O:729:GLN:CB	9:O:744:VAL:HG12	2.30	0.61
10:B:243:LYS:O	10:B:246:LEU:HB2	2.00	0.61
1:A:274:ARG:HH22	1:A:278:THR:HB	1.65	0.61
5:Q:58:ASN:N	9:O:39:PHE:CB	2.64	0.61
5:Q:58:ASN:ND2	9:O:36:ASN:ND2	2.49	0.61
8:G:11:LEU:HB2	8:G:15:PHE:CE2	2.35	0.61
8:G:42:VAL:HG21	8:G:163:ARG:H	1.66	0.61
9:O:4:LYS:HB2	9:O:5:PRO:HD2	1.82	0.61
9:O:181:ILE:HG13	9:O:182:HIS:N	2.14	0.61
1:A:245:SER:HA	1:A:248:LEU:HB2	1.83	0.61
9:O:117:LYS:NZ	9:O:120:GLU:HG2	2.16	0.61
9:O:453:SER:CA	10:B:188:LEU:CD1	2.77	0.61
10:B:37:TYR:CD1	10:B:56:LYS:HB3	2.36	0.61
10:B:73:LYS:HG3	10:B:115:ILE:HG12	1.83	0.61
5:Q:19:VAL:HG23	5:Q:31:VAL:HB	1.82	0.60
9:O:408:GLU:HG3	10:B:105:ARG:NE	2.14	0.60
9:O:574:VAL:CG2	10:B:13:GLU:CA	2.56	0.60
10:B:136:LEU:HB3	10:B:148:TRP:CE2	2.34	0.60
1:A:502:VAL:HG21	7:C:211:THR:HG21	1.82	0.60
8:G:29:ALA:O	8:G:33:GLN:HG2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:O:17:LEU:HD13	9:O:17:LEU:C	2.26	0.60
9:O:167:ILE:CG2	9:O:171:ARG:HH12	2.12	0.60
9:O:510:TYR:H	9:O:559:LEU:HD22	1.66	0.60
9:O:574:VAL:HG22	10:B:13:GLU:HA	1.81	0.60
10:B:5:GLU:HG3	10:B:6:ASP:N	2.15	0.60
10:B:140:LYS:HE2	10:B:140:LYS:CA	2.30	0.60
10:B:189:LYS:CB	10:B:193:GLN:HA	2.31	0.60
3:H:28:PRO:HB2	3:H:31:ILE:HB	1.83	0.60
6:R:33:TRP:CD2	6:R:34:ALA:CA	2.83	0.60
8:G:66:LEU:CD1	8:G:85:LEU:HD13	2.31	0.60
10:B:260:GLU:HA	10:B:263:LYS:HD3	1.82	0.60
10:B:350:LEU:O	10:B:350:LEU:HD13	2.01	0.60
2:D:199:ARG:NH2	2:D:288:HIS:O	2.34	0.60
8:G:74:THR:HB	8:G:100:THR:HB	1.83	0.60
8:G:98:HIS:CE1	8:G:131:LEU:HD12	2.33	0.60
8:G:140:ILE:O	8:G:157:CYS:HA	2.01	0.60
9:O:456:ALA:CA	10:B:188:LEU:CD1	2.78	0.60
10:B:142:ALA:HB3	10:B:143:LYS:HZ2	1.66	0.60
10:B:220:GLN:O	10:B:223:HIS:HB2	2.01	0.60
6:R:39:VAL:CG1	6:R:66:GLU:CD	2.68	0.60
8:G:146:ASP:HB3	8:G:151:LEU:C	2.26	0.60
9:O:105:TYR:HA	9:O:108:LEU:HD23	1.82	0.60
9:O:340:VAL:O	9:O:344:LEU:HG	2.02	0.60
9:O:565:LYS:CD	10:B:13:GLU:CG	2.59	0.60
10:B:18:LEU:HD21	10:B:35:GLN:CD	2.24	0.60
10:B:152:ASN:ND2	10:B:171:ILE:HG23	2.17	0.60
10:B:274:THR:O	10:B:278:LYS:HG3	2.01	0.60
2:D:392:ALA:HA	8:G:40:VAL:HG11	1.83	0.60
8:G:185:LEU:O	8:G:189:GLU:HG3	2.01	0.60
9:O:577:VAL:HG22	9:O:578:THR:N	2.13	0.60
10:B:89:MET:HG2	10:B:93:LYS:HE3	1.82	0.60
10:B:159:TYR:HD1	10:B:164:GLU:HB3	1.67	0.60
2:D:107:ARG:NH1	2:D:126:VAL:O	2.35	0.60
3:H:120:LEU:HD21	7:C:343:GLU:CD	2.27	0.60
9:O:88:HIS:CD2	9:O:179:LYS:HG3	2.36	0.60
9:O:452:ASP:OD1	10:B:189:LYS:HE3	2.02	0.60
9:O:663:GLN:CG	9:O:667:GLN:HE21	2.15	0.60
3:H:43:LEU:O	3:H:47:HIS:ND1	2.33	0.60
5:Q:64:GLU:OE1	9:O:46:CYS:O	2.19	0.60
8:G:97:LYS:HB3	8:G:120:LEU:HD13	1.81	0.60
9:O:382:LYS:HD2	9:O:382:LYS:H	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:B:73:LYS:HE3	10:B:114:SER:OG	2.01	0.60
3:H:52:ASN:OD1	7:C:155:PHE:CE2	2.51	0.60
9:O:170:ASP:OD2	9:O:246:GLU:CA	2.47	0.60
9:O:193:GLN:HG3	9:O:195:LYS:H	1.65	0.60
10:B:215:LYS:HZ3	10:B:244:MET:HE3	1.66	0.60
1:A:494:ALA:HB1	7:C:167:MET:CA	2.29	0.60
3:H:120:LEU:HD21	7:C:343:GLU:CG	2.30	0.60
8:G:129:GLU:HA	8:G:132:ILE:HB	1.84	0.60
8:G:196:ASN:HA	8:G:199:LYS:CB	2.32	0.60
9:O:648:ARG:HG3	9:O:652:LYS:CD	2.31	0.60
10:B:84:ASN:ND2	10:B:85:PHE:HD1	2.00	0.60
10:B:144:ASN:CA	10:B:147:LEU:HD13	2.32	0.60
2:D:201:PHE:O	2:D:205:ALA:HB2	2.01	0.59
3:H:26:GLU:HG2	7:C:123:ILE:CD1	2.32	0.59
5:Q:66:PRO:N	9:O:1:MET:HB2	2.15	0.59
8:G:27:LEU:HD21	8:G:55:LEU:CG	2.32	0.59
9:O:62:LYS:HG3	9:O:142:LEU:HD21	1.84	0.59
9:O:231:ASN:ND2	9:O:234:GLN:HB2	2.16	0.59
9:O:361:ASP:HB3	9:O:364:PHE:CE2	2.36	0.59
6:R:49:ILE:HA	6:R:68:CYS:HB2	1.82	0.59
9:O:78:GLU:OE1	9:O:83:VAL:HG12	2.01	0.59
9:O:147:TRP:CD1	9:O:190:HIS:HD2	2.20	0.59
9:O:564:VAL:CG2	10:B:16:TYR:HH	1.95	0.59
9:O:586:LEU:HD23	9:O:586:LEU:C	2.27	0.59
1:A:483:GLN:HE22	7:C:379:GLU:HA	1.67	0.59
2:D:153:ARG:NH1	2:D:190:CYS:SG	2.75	0.59
3:H:208:GLU:C	10:B:422:THR:CG2	2.74	0.59
8:G:1:MET:N	8:G:9:SER:O	2.35	0.59
8:G:75:TYR:HB3	8:G:120:LEU:HD21	1.84	0.59
8:G:166:ASP:O	8:G:170:ILE:N	2.25	0.59
9:O:511:VAL:HG23	9:O:548:PHE:HE2	1.67	0.59
10:B:76:ILE:HD11	10:B:115:ILE:HD13	1.83	0.59
10:B:159:TYR:HD1	10:B:162:ARG:HD3	1.67	0.59
10:B:245:HIS:HB2	10:B:254:ALA:HB2	1.84	0.59
2:D:60:VAL:HA	2:D:63:ARG:HB3	1.84	0.59
8:G:38:PRO:HA	8:G:41:TYR:CZ	2.37	0.59
8:G:76:PRO:HA	8:G:79:ILE:HD12	1.84	0.59
10:B:63:GLU:CB	10:B:104:THR:HG23	2.32	0.59
10:B:236:VAL:O	10:B:239:GLU:HB3	2.01	0.59
7:C:367:TYR:CE1	7:C:372:MET:HE3	2.38	0.59
9:O:3:LEU:HB3	9:O:49:TYR:OH	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:O:84:LEU:CB	9:O:180:VAL:HG11	1.04	0.59
9:O:163:LEU:CD1	9:O:185:ILE:CG1	2.69	0.59
9:O:163:LEU:CG	9:O:184:VAL:HG21	2.09	0.59
10:B:123:LYS:HE3	10:B:126:ASP:OD2	2.01	0.59
10:B:305:ASP:HB3	10:B:308:ILE:CG1	2.30	0.59
5:Q:47:SER:O	9:O:32:ARG:NH1	2.36	0.59
8:G:30:LEU:O	8:G:34:VAL:HG23	2.03	0.59
8:G:31:ILE:O	8:G:35:LEU:HG	2.02	0.59
9:O:85:VAL:HA	9:O:179:LYS:HE3	1.83	0.59
9:O:240:LEU:HG	9:O:244:LYS:HE3	1.83	0.59
9:O:565:LYS:HD2	10:B:13:GLU:HG3	1.78	0.59
9:O:729:GLN:HB3	9:O:744:VAL:CG1	2.33	0.59
10:B:30:VAL:HG11	10:B:60:LEU:CG	2.32	0.59
10:B:328:LYS:HA	10:B:331:LYS:NZ	2.17	0.59
10:B:400:GLY:HA3	10:B:410:GLU:O	2.02	0.59
9:O:186:ASN:HA	9:O:189:VAL:HG22	1.84	0.59
9:O:57:LEU:C	9:O:57:LEU:HD23	2.27	0.59
9:O:408:GLU:HB2	10:B:105:ARG:NH2	2.18	0.59
9:O:599:LEU:HD13	9:O:599:LEU:C	2.27	0.59
9:O:625:HIS:CD2	9:O:628:GLU:HG3	2.38	0.59
10:B:21:SER:CB	10:B:64:LYS:HB3	2.33	0.59
10:B:79:ASN:O	10:B:84:ASN:HA	2.01	0.59
2:D:9:LEU:O	2:D:26:TYR:OH	2.19	0.59
9:O:8:VAL:HG23	9:O:9:ASP:N	2.18	0.59
9:O:456:ALA:HB3	10:B:188:LEU:CD1	2.24	0.59
9:O:556:LEU:CD1	9:O:558:TYR:HD2	2.15	0.59
9:O:684:ILE:O	9:O:688:MET:HG2	2.01	0.59
10:B:147:LEU:HD12	10:B:147:LEU:N	2.17	0.59
1:A:419:SER:H	10:B:403:ASP:HA	1.68	0.59
2:D:60:VAL:HG13	2:D:63:ARG:HD2	1.85	0.59
9:O:322:GLU:HA	9:O:325:ARG:HE	1.68	0.59
9:O:681:GLN:O	9:O:684:ILE:HG12	2.01	0.59
9:O:726:ILE:HG22	9:O:730:TYR:CD2	2.38	0.59
1:A:417:TYR:CD1	10:B:402:ILE:CB	2.86	0.58
7:C:167:MET:SD	7:C:393:MET:SD	3.00	0.58
8:G:142:GLN:CG	8:G:155:ASP:HB2	2.33	0.58
8:G:144:LYS:O	8:G:153:GLU:N	2.36	0.58
9:O:20:THR:HG21	9:O:41:ASP:CB	2.33	0.58
9:O:361:ASP:HB3	9:O:364:PHE:HD2	1.66	0.58
9:O:394:TYR:HA	9:O:397:ASN:HD22	1.67	0.58
10:B:402:ILE:HG12	10:B:409:LEU:HD13	1.83	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:101:GLN:O	1:A:105:ASP:N	2.36	0.58
2:D:373:GLN:NE2	8:G:155:ASP:HB3	2.17	0.58
2:D:393:PRO:C	8:G:45:GLU:C	2.62	0.58
9:O:165:ARG:NH2	9:O:176:PRO:HG3	2.15	0.58
9:O:169:ASN:HA	9:O:172:GLY:O	2.03	0.58
9:O:624:ASN:OD1	9:O:642:MET:HB2	2.02	0.58
10:B:281:VAL:HG12	10:B:285:MET:HE2	1.83	0.58
1:A:491:LEU:HD23	7:C:166:MET:O	2.03	0.58
8:G:62:ALA:O	8:G:86:PRO:HD3	2.03	0.58
8:G:140:ILE:CA	8:G:158:ILE:HG12	2.33	0.58
8:G:185:LEU:HD23	8:G:188:ILE:HD12	1.85	0.58
9:O:169:ASN:HB2	9:O:249:ARG:HD3	1.85	0.58
9:O:254:LEU:C	9:O:254:LEU:HD12	2.28	0.58
9:O:565:LYS:CG	10:B:13:GLU:HG3	2.29	0.58
9:O:696:HIS:HE1	9:O:718:ILE:HG21	1.68	0.58
10:B:70:LYS:HG2	10:B:73:LYS:HD3	1.86	0.58
10:B:228:ILE:HG13	10:B:228:ILE:O	2.02	0.58
3:H:29:GLY:HA2	7:C:75:GLU:OE1	2.03	0.58
6:R:24:VAL:HG22	9:O:562:GLY:CA	2.32	0.58
8:G:74:THR:N	8:G:77:ASP:OD2	2.33	0.58
9:O:51:GLU:CB	9:O:52:PRO:HD3	2.33	0.58
9:O:699:LEU:HA	9:O:702:GLU:OE1	2.02	0.58
10:B:189:LYS:HB2	10:B:193:GLN:HA	1.84	0.58
2:D:61:ILE:HD11	9:O:598:GLU:OE2	2.01	0.58
3:H:55:TYR:HD1	7:C:153:LYS:CE	2.04	0.58
6:R:19:LYS:CG	9:O:569:LEU:HD12	2.34	0.58
6:R:22:PHE:HA	9:O:577:VAL:HG21	1.83	0.58
9:O:81:GLU:OE2	9:O:162:MET:HB3	2.03	0.58
9:O:575:ALA:O	10:B:16:TYR:HE2	1.85	0.58
10:B:119:ILE:HB	10:B:128:LEU:HD13	1.85	0.58
10:B:145:ASP:OD2	10:B:188:LEU:HB2	2.03	0.58
10:B:265:TYR:CE1	10:B:272:ARG:HB2	2.38	0.58
2:D:387:LYS:NZ	8:G:161:ASP:O	2.25	0.58
3:H:51:ASN:HB3	7:C:194:GLY:O	2.04	0.58
8:G:177:TRP:NE1	8:G:181:CYS:SG	2.77	0.58
9:O:185:ILE:HA	9:O:188:PHE:HD2	1.69	0.58
9:O:490:PHE:CD1	9:O:543:PHE:HB2	2.38	0.58
10:B:21:SER:HB2	10:B:64:LYS:CA	2.34	0.58
10:B:67:TRP:CH2	10:B:70:LYS:HB2	2.38	0.58
2:D:394:GLU:N	8:G:46:LEU:H	1.67	0.58
8:G:101:ILE:CD1	8:G:116:LEU:HG	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:O:20:THR:OG1	9:O:38:ARG:HG2	2.03	0.58
2:D:323:GLU:O	2:D:327:LEU:HB2	2.03	0.58
8:G:10:ASN:O	8:G:14:GLN:HB2	2.04	0.58
8:G:122:MET:HE3	8:G:127:GLU:HG2	1.85	0.58
9:O:148:ARG:HA	9:O:191:VAL:CG1	2.07	0.58
9:O:347:HIS:ND1	9:O:421:VAL:HG12	2.18	0.58
10:B:57:VAL:HG13	10:B:68:GLY:HA3	1.86	0.58
10:B:202:ILE:O	10:B:206:THR:HG23	2.03	0.58
6:R:87:TRP:HE1	6:R:95:PRO:HD2	1.69	0.58
9:O:166:GLU:O	9:O:249:ARG:HD2	2.01	0.58
1:A:320:LEU:HD12	1:A:325:VAL:HG21	1.86	0.58
1:A:495:VAL:HG23	1:A:496:LEU:HG	1.86	0.58
8:G:19:ALA:HB2	8:G:30:LEU:HD21	1.86	0.58
8:G:101:ILE:HG13	8:G:116:LEU:HG	1.85	0.58
9:O:25:VAL:HG23	9:O:25:VAL:O	2.04	0.58
10:B:88:MET:HE1	10:B:119:ILE:HG12	1.83	0.58
10:B:288:LYS:HE2	10:B:353:ASN:CG	2.29	0.58
3:H:25:LEU:HD22	7:C:118:LEU:HG	1.58	0.57
8:G:113:TYR:HB3	8:G:128:LEU:HD21	1.85	0.57
9:O:346:VAL:HG13	9:O:350:PHE:CE2	2.38	0.57
2:D:63:ARG:HG3	2:D:102:GLN:HE22	1.70	0.57
6:R:71:ALA:H	6:R:78:ALA:HB3	1.68	0.57
9:O:731:ILE:HD12	9:O:731:ILE:N	2.18	0.57
10:B:275:THR:HA	10:B:278:LYS:CD	2.34	0.57
2:D:94:PRO:O	9:O:534:GLU:OE2	2.23	0.57
7:C:399:VAL:CB	7:C:400:ASN:OD1	2.52	0.57
8:G:136:VAL:HG12	8:G:141:ILE:CG2	2.34	0.57
9:O:22:LYS:O	9:O:25:VAL:HG22	2.04	0.57
9:O:24:VAL:CG2	9:O:30:VAL:HG11	2.29	0.57
9:O:102:ASP:HA	9:O:105:TYR:HB3	1.85	0.57
2:D:194:VAL:O	2:D:198:ARG:N	2.36	0.57
8:G:99:LEU:HA	8:G:160:ARG:CD	2.34	0.57
9:O:71:HIS:CE1	9:O:75:ARG:HH11	2.22	0.57
9:O:192:GLU:OE1	9:O:201:LYS:HG2	2.04	0.57
9:O:512:LEU:HD22	9:O:556:LEU:CB	2.18	0.57
9:O:537:VAL:HG23	9:O:538:GLN:H	1.70	0.57
9:O:673:ASP:HA	9:O:676:ARG:HG3	1.86	0.57
10:B:78:ILE:CG2	10:B:82:LEU:HD12	2.34	0.57
10:B:360:ILE:HG22	10:B:364:LYS:HE3	1.87	0.57
2:D:386:GLU:HB3	8:G:5:GLN:H	1.68	0.57
3:H:55:TYR:CZ	7:C:155:PHE:CZ	2.91	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:R:22:PHE:CA	9:O:577:VAL:CG2	2.82	0.57
8:G:6:LYS:HG2	8:G:7:PRO:O	2.04	0.57
8:G:13:GLU:HA	8:G:16:ILE:HD12	1.86	0.57
8:G:42:VAL:CG2	8:G:161:ASP:HB3	2.35	0.57
9:O:81:GLU:HG3	9:O:176:PRO:HG2	1.86	0.57
10:B:147:LEU:H	10:B:147:LEU:CD1	2.17	0.57
10:B:159:TYR:HE1	10:B:162:ARG:NH1	2.02	0.57
5:Q:24:SER:HB3	9:O:3:LEU:HD22	1.84	0.57
5:Q:61:ASN:HB3	9:O:46:CYS:HB2	1.85	0.57
5:Q:69:VAL:CG2	9:O:1:MET:SD	2.80	0.57
5:Q:69:VAL:HB	9:O:1:MET:CG	2.34	0.57
6:R:79:PHE:HB2	6:R:84:ILE:HB	1.86	0.57
8:G:15:PHE:CE1	8:G:33:GLN:HG3	2.33	0.57
8:G:89:SER:O	8:G:93:GLN:N	2.28	0.57
2:D:30:LEU:O	2:D:34:ILE:HB	2.04	0.57
2:D:320:THR:HA	2:D:358:ILE:HA	1.85	0.57
3:H:25:LEU:HD22	7:C:119:ARG:N	2.19	0.57
3:H:29:GLY:H	7:C:119:ARG:HH22	1.50	0.57
5:Q:47:SER:CB	9:O:39:PHE:CZ	2.63	0.57
6:R:22:PHE:CB	9:O:581:GLN:HB2	2.14	0.57
8:G:42:VAL:HG13	8:G:164:LYS:NZ	2.20	0.57
8:G:112:PRO:HB2	8:G:115:VAL:HG23	1.85	0.57
9:O:20:THR:HG21	9:O:41:ASP:HB2	1.87	0.57
9:O:146:MET:HE2	9:O:146:MET:HA	1.86	0.57
9:O:456:ALA:CA	10:B:188:LEU:HD12	2.22	0.57
10:B:364:LYS:CB	10:B:365:PRO:HD3	2.32	0.57
10:B:420:ARG:O	10:B:424:LEU:HD13	2.04	0.57
1:A:100:LEU:HD21	1:A:114:ALA:HB3	1.87	0.57
2:D:171:ALA:O	2:D:175:GLN:N	2.37	0.57
2:D:390:GLN:O	8:G:40:VAL:HG21	2.05	0.57
5:Q:69:VAL:HB	9:O:1:MET:HG3	1.87	0.57
9:O:146:MET:CE	9:O:149:LYS:HZ3	2.18	0.57
9:O:614:ILE:HG13	9:O:618:LEU:HD13	1.86	0.57
10:B:88:MET:HE2	10:B:119:ILE:HG12	1.84	0.57
10:B:408:LEU:C	10:B:408:LEU:HD12	2.29	0.57
9:O:237:GLU:HG2	9:O:296:ASN:CB	2.35	0.57
9:O:274:HIS:HD1	9:O:277:PHE:HD2	1.53	0.57
9:O:501:ILE:HG23	9:O:501:ILE:O	2.05	0.57
9:O:549:SER:O	10:B:302:TYR:CE1	2.58	0.57
9:O:665:MET:HA	9:O:665:MET:CE	2.29	0.57
1:A:497:ARG:HD3	7:C:397:ILE:HD11	1.83	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:O:23:ALA:HA	9:O:28:GLU:CB	2.31	0.57
9:O:170:ASP:CG	9:O:249:ARG:HB2	2.30	0.57
9:O:319:ILE:HG23	9:O:350:PHE:CD2	2.40	0.57
10:B:14:GLU:CB	10:B:67:TRP:CZ2	2.88	0.57
10:B:21:SER:HB3	10:B:64:LYS:HD3	1.86	0.57
7:C:71:VAL:HB	7:C:72:PRO:CD	2.35	0.56
8:G:27:LEU:O	8:G:30:LEU:HB3	2.05	0.56
8:G:77:ASP:O	8:G:81:ASN:N	2.18	0.56
8:G:146:ASP:HB3	8:G:151:LEU:HB2	1.87	0.56
8:G:165:LYS:CE	8:G:167:LEU:HD13	2.33	0.56
8:G:196:ASN:HA	8:G:199:LYS:HB3	1.86	0.56
9:O:24:VAL:HG12	9:O:97:GLY:O	2.05	0.56
9:O:443:LEU:HD22	9:O:476:MET:SD	2.45	0.56
10:B:14:GLU:CB	10:B:67:TRP:HZ2	2.16	0.56
10:B:134:THR:O	10:B:137:GLU:HB2	2.05	0.56
3:H:208:GLU:HG2	10:B:422:THR:HA	1.87	0.56
5:Q:47:SER:HB2	9:O:35:TRP:HB3	1.87	0.56
10:B:237:ILE:CD1	10:B:238:ARG:HH21	2.05	0.56
1:A:497:ARG:NH1	7:C:393:MET:CB	2.33	0.56
5:Q:22:ILE:HG23	5:Q:28:GLU:HG2	1.87	0.56
8:G:27:LEU:HG	8:G:30:LEU:HD23	1.88	0.56
8:G:52:VAL:HA	8:G:55:LEU:HB3	1.87	0.56
9:O:170:ASP:HB2	9:O:249:ARG:CB	2.33	0.56
9:O:316:GLN:HA	9:O:371:ALA:HB2	1.88	0.56
9:O:553:LEU:HD21	9:O:555:TRP:CZ3	2.40	0.56
10:B:149:PHE:CD1	10:B:175:LEU:HD12	2.40	0.56
10:B:405:VAL:HG13	10:B:406:ASN:N	2.21	0.56
1:A:417:TYR:HD1	10:B:402:ILE:O	1.86	0.56
1:A:454:ASP:O	1:A:458:LYS:N	2.39	0.56
8:G:140:ILE:CB	8:G:158:ILE:HG12	2.35	0.56
8:G:170:ILE:O	8:G:174:LEU:HG	2.06	0.56
9:O:73:HIS:HA	9:O:150:LEU:CD1	2.36	0.56
9:O:227:LEU:HD21	9:O:274:HIS:CD2	2.40	0.56
9:O:418:PHE:O	9:O:421:VAL:HG22	2.04	0.56
1:A:497:ARG:NH1	7:C:393:MET:CA	2.60	0.56
5:Q:66:PRO:CG	9:O:3:LEU:CB	2.76	0.56
6:R:19:LYS:CG	9:O:569:LEU:CD1	2.84	0.56
8:G:25:SER:O	8:G:28:THR:OG1	2.14	0.56
8:G:112:PRO:HA	8:G:150:GLN:O	2.06	0.56
9:O:84:LEU:HB3	9:O:180:VAL:C	2.30	0.56
9:O:90:TYR:O	9:O:94:TYR:HB2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:O:400:LYS:HD3	9:O:402:SER:HB2	1.87	0.56
9:O:505:ILE:HG22	9:O:507:PHE:CE1	2.41	0.56
9:O:531:GLN:HG3	9:O:535:LYS:HD3	1.86	0.56
9:O:580:TYR:HB3	9:O:638:PHE:CE2	2.40	0.56
2:D:45:LEU:HD13	2:D:84:ILE:HD11	1.87	0.56
3:H:120:LEU:CD2	7:C:343:GLU:HG3	2.36	0.56
6:R:22:PHE:CA	9:O:577:VAL:HG21	2.35	0.56
6:R:32:LEU:HD22	9:O:554:THR:HB	1.87	0.56
8:G:165:LYS:HD3	8:G:167:LEU:HD22	1.88	0.56
8:G:195:ALA:O	8:G:199:LYS:N	2.38	0.56
9:O:156:GLN:O	9:O:160:ILE:HG12	2.06	0.56
9:O:325:ARG:C	9:O:330:LEU:HD13	2.30	0.56
9:O:565:LYS:CE	10:B:13:GLU:CA	2.42	0.56
1:A:502:VAL:HG21	7:C:211:THR:CG2	2.31	0.56
3:H:111:ASP:OD1	3:H:114:ARG:NH1	2.38	0.56
8:G:27:LEU:HD11	8:G:55:LEU:HB2	1.86	0.56
8:G:101:ILE:HD12	8:G:116:LEU:HG	1.88	0.56
9:O:572:PRO:HG3	10:B:43:LYS:HD2	1.88	0.56
9:O:691:ARG:CB	9:O:694:LEU:HD11	2.33	0.56
9:O:708:ARG:NH2	9:O:713:PRO:HG3	2.20	0.56
1:A:136:ARG:NH1	1:A:140:GLU:OE2	2.39	0.56
1:A:424:ARG:NH2	10:B:405:VAL:HA	2.19	0.56
3:H:59:ARG:CZ	7:C:118:LEU:HB2	2.35	0.56
9:O:12:GLU:HG2	9:O:16:LYS:HZ2	1.70	0.56
9:O:144:LEU:HD12	9:O:196:LYS:NZ	1.95	0.56
9:O:490:PHE:CE1	9:O:543:PHE:HD2	2.24	0.56
10:B:139:LEU:CB	10:B:148:TRP:CE3	2.89	0.56
10:B:211:ASN:O	10:B:215:LYS:HG2	2.06	0.56
1:A:86:GLN:HE21	1:A:90:SER:HB3	1.70	0.56
1:A:417:TYR:HD1	10:B:402:ILE:CB	2.19	0.56
1:A:455:SER:H	7:C:316:THR:H	0.77	0.56
1:A:497:ARG:HH12	7:C:393:MET:HA	1.67	0.56
2:D:198:ARG:O	2:D:200:LYS:NZ	2.38	0.56
3:H:107:GLU:HG2	3:H:110:ARG:HH12	1.71	0.56
9:O:452:ASP:C	10:B:188:LEU:CD1	2.78	0.56
10:B:305:ASP:OD1	10:B:306:PRO:HD2	2.05	0.56
1:A:209:LEU:HD21	1:A:244:VAL:HG22	1.88	0.56
1:A:424:ARG:HH12	10:B:405:VAL:CG2	2.18	0.56
5:Q:65:ILE:HG12	9:O:49:TYR:CD1	2.37	0.56
9:O:132:MET:O	9:O:133:ASN:HB2	2.06	0.56
10:B:76:ILE:HD12	10:B:115:ILE:HG21	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:B:434:LEU:O	10:B:438:VAL:HG23	2.06	0.56
1:A:343:GLN:CD	10:B:394:LEU:HD21	2.31	0.55
3:H:20:CYS:HB3	3:H:36:VAL:HG22	1.87	0.55
8:G:180:GLY:O	8:G:184:VAL:HG23	2.06	0.55
9:O:163:LEU:CD2	9:O:181:ILE:HB	2.35	0.55
9:O:171:ARG:HH21	9:O:215:THR:HA	1.69	0.55
9:O:574:VAL:HG21	10:B:13:GLU:N	2.21	0.55
9:O:665:MET:HE2	9:O:668:THR:HB	1.87	0.55
3:H:207:LEU:HD12	7:C:376:ILE:HD13	1.87	0.55
8:G:96:LEU:HA	8:G:99:LEU:HD12	1.88	0.55
9:O:38:ARG:O	9:O:41:ASP:HB3	2.06	0.55
9:O:389:GLU:O	9:O:393:LYS:HG2	2.07	0.55
9:O:620:VAL:HG12	9:O:622:MET:N	2.11	0.55
10:B:139:LEU:O	10:B:148:TRP:HE3	1.88	0.55
1:A:259:SER:HA	1:A:262:GLU:HB2	1.88	0.55
5:Q:66:PRO:CA	9:O:3:LEU:HB2	2.35	0.55
8:G:47:LEU:CD1	8:G:52:VAL:HG12	2.36	0.55
8:G:92:GLN:HA	8:G:95:LYS:CD	2.25	0.55
9:O:132:MET:HE3	9:O:134:GLU:OE1	2.06	0.55
9:O:387:ALA:CB	9:O:388:PRO:HD3	2.35	0.55
9:O:507:PHE:CD1	9:O:536:SER:HA	2.42	0.55
8:G:62:ALA:O	8:G:65:GLN:HB2	2.07	0.55
9:O:25:VAL:HG11	9:O:64:PHE:CE2	2.40	0.55
9:O:93:GLU:HA	9:O:96:LYS:HE3	1.87	0.55
9:O:331:THR:HB	9:O:339:PHE:HD2	1.70	0.55
9:O:540:PHE:CE2	9:O:544:TYR:HD1	2.25	0.55
3:H:25:LEU:CG	7:C:118:LEU:CD2	2.81	0.55
8:G:7:PRO:CG	8:G:37:ALA:HB1	2.36	0.55
8:G:100:THR:HG21	8:G:120:LEU:HD21	1.88	0.55
8:G:103:SER:O	8:G:106:SER:HB3	2.07	0.55
8:G:185:LEU:HD23	8:G:188:ILE:CD1	2.37	0.55
9:O:85:VAL:CA	9:O:179:LYS:HE3	2.36	0.55
9:O:170:ASP:H	9:O:249:ARG:CD	1.86	0.55
9:O:408:GLU:CB	10:B:105:ARG:CZ	2.85	0.55
10:B:244:MET:HA	10:B:247:ARG:HH11	1.71	0.55
2:D:198:ARG:HB3	2:D:200:LYS:HG2	1.88	0.55
7:C:386:LEU:O	7:C:390:LEU:N	2.35	0.55
8:G:55:LEU:HD21	8:G:63:TYR:HD2	1.72	0.55
9:O:309:PRO:HA	9:O:312:ILE:HD12	1.88	0.55
10:B:22:GLU:N	10:B:64:LYS:HB3	2.21	0.55
10:B:136:LEU:HD22	10:B:148:TRP:CE2	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:B:205:TYR:HB2	10:B:214:LEU:HD23	1.89	0.55
10:B:355:ARG:HH21	10:B:380:ILE:HB	1.70	0.55
3:H:59:ARG:HD3	7:C:152:ALA:CA	2.35	0.55
8:G:100:THR:O	8:G:104:LEU:HG	2.07	0.55
9:O:17:LEU:CG	9:O:57:LEU:HD21	2.33	0.55
9:O:215:THR:HG23	9:O:219:TYR:CE2	2.41	0.55
10:B:73:LYS:O	10:B:76:ILE:HG12	2.06	0.55
1:A:454:ASP:CA	7:C:315:LEU:CB	2.75	0.55
2:D:390:GLN:O	8:G:40:VAL:CG2	2.54	0.55
6:R:55:GLU:HB3	6:R:81:PHE:HD2	1.72	0.55
6:R:64:THR:H	6:R:67:GLU:HB3	1.71	0.55
8:G:18:LEU:HD13	8:G:33:GLN:NE2	2.21	0.55
9:O:20:THR:HG21	9:O:41:ASP:OD2	2.06	0.55
9:O:376:VAL:HG12	9:O:384:VAL:CG1	2.35	0.55
9:O:456:ALA:N	10:B:188:LEU:CD1	2.70	0.55
10:B:25:ASN:HB3	10:B:28:PRO:CD	2.37	0.55
9:O:58:TYR:CD1	9:O:105:TYR:CE1	2.95	0.55
9:O:175:ASP:C	9:O:176:PRO:C	2.75	0.55
9:O:401:LYS:HE3	9:O:449:MET:HG3	1.89	0.55
2:D:383:ASN:ND2	8:G:156:PHE:CZ	2.75	0.55
3:H:154:GLN:HB3	3:H:163:LEU:HB2	1.89	0.55
8:G:112:PRO:CA	8:G:151:LEU:HD23	2.37	0.55
9:O:740:GLU:O	9:O:741:TYR:HD1	1.90	0.55
10:B:204:MET:HE3	10:B:205:TYR:CE2	2.42	0.55
1:A:94:LEU:O	1:A:98:GLU:N	2.40	0.54
1:A:455:SER:N	7:C:316:THR:HB	2.16	0.54
6:R:22:PHE:C	9:O:577:VAL:HG13	2.31	0.54
6:R:22:PHE:N	9:O:577:VAL:HG11	2.20	0.54
9:O:81:GLU:HG3	9:O:165:ARG:HH22	1.72	0.54
9:O:156:GLN:HA	9:O:160:ILE:HG12	1.88	0.54
9:O:295:ALA:CA	9:O:357:VAL:HG11	2.34	0.54
10:B:100:ARG:NH2	10:B:143:LYS:HB2	2.22	0.54
10:B:149:PHE:HD1	10:B:175:LEU:HD12	1.73	0.54
10:B:245:HIS:CD2	10:B:250:GLU:HB2	2.28	0.54
1:A:188:TYR:HD1	1:A:191:ASN:HD22	1.53	0.54
1:A:293:GLU:HB2	1:A:302:ALA:HB2	1.89	0.54
8:G:102:VAL:CG2	8:G:160:ARG:HD3	2.37	0.54
9:O:310:HIS:O	9:O:313:GLN:HB2	2.07	0.54
9:O:486:LEU:HD23	9:O:489:LYS:HD2	1.89	0.54
10:B:233:ILE:HG22	10:B:233:ILE:O	2.07	0.54
1:A:179:GLU:OE1	5:Q:82:ARG:NH2	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:282:LEU:HD23	1:A:285:LEU:HD12	1.89	0.54
2:D:365:GLU:CD	8:G:153:GLU:OE2	2.48	0.54
2:D:392:ALA:H	8:G:162:ILE:HD12	1.71	0.54
3:H:120:LEU:HD11	7:C:343:GLU:CG	2.34	0.54
4:P:34:ILE:HG23	5:Q:32:LYS:HG2	1.90	0.54
8:G:136:VAL:HA	8:G:141:ILE:HB	1.89	0.54
8:G:152:LEU:O	8:G:154:VAL:HG23	2.06	0.54
1:A:277:GLN:NE2	1:A:279:GLN:O	2.40	0.54
4:P:24:VAL:HG13	4:P:44:LEU:HD12	1.90	0.54
8:G:11:LEU:HB2	8:G:15:PHE:HE2	1.72	0.54
8:G:79:ILE:O	8:G:82:LYS:HE3	2.08	0.54
8:G:97:LYS:O	8:G:120:LEU:HD11	2.08	0.54
8:G:199:LYS:HE2	8:G:203:LEU:CD1	2.32	0.54
9:O:31:GLU:H	9:O:34:THR:HB	1.73	0.54
9:O:137:MET:HG3	9:O:141:GLU:OE1	2.07	0.54
9:O:456:ALA:CB	10:B:188:LEU:HD11	2.29	0.54
10:B:8:PHE:CD2	10:B:43:LYS:HG2	2.43	0.54
10:B:355:ARG:HA	10:B:358:VAL:HG22	1.89	0.54
1:A:494:ALA:O	7:C:168:ASP:HA	2.08	0.54
3:H:102:VAL:O	3:H:106:MET:N	2.37	0.54
6:R:25:LYS:HB2	9:O:577:VAL:O	2.06	0.54
6:R:68:CYS:SG	6:R:80:HIS:NE2	2.68	0.54
7:C:275:LEU:HD23	7:C:299:LEU:HD12	1.90	0.54
9:O:695:ARG:HG2	9:O:698:ALA:HB2	1.89	0.54
6:R:33:TRP:CG	6:R:34:ALA:HB3	2.42	0.54
10:B:402:ILE:CG1	10:B:409:LEU:HD13	2.37	0.54
1:A:81:SER:O	1:A:387:ASN:ND2	2.41	0.54
1:A:453:VAL:N	7:C:315:LEU:HB2	2.21	0.54
2:D:238:ALA:HB1	2:D:243:SER:HB3	1.90	0.54
8:G:15:PHE:HA	8:G:18:LEU:HB2	1.89	0.54
8:G:75:TYR:HB3	8:G:120:LEU:CD2	2.38	0.54
8:G:92:GLN:CA	8:G:95:LYS:HD3	2.25	0.54
9:O:673:ASP:O	9:O:676:ARG:HB2	2.07	0.54
10:B:290:GLY:HA3	10:B:319:GLN:CD	2.32	0.54
3:H:59:ARG:NH1	7:C:152:ALA:CB	2.32	0.54
5:Q:68:HIS:CE1	9:O:1:MET:CG	2.90	0.54
8:G:52:VAL:O	8:G:55:LEU:HB3	2.07	0.54
9:O:267:GLN:O	9:O:271:VAL:HG13	2.08	0.54
9:O:594:VAL:HG23	9:O:594:VAL:O	2.06	0.54
2:D:320:THR:HG22	2:D:358:ILE:HG12	1.90	0.54
7:C:399:VAL:O	7:C:400:ASN:HB3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:88:LEU:HD13	8:G:96:LEU:HD13	1.90	0.54
8:G:103:SER:O	8:G:107:ARG:HG2	2.08	0.54
9:O:294:MET:HE3	9:O:294:MET:CA	2.29	0.54
9:O:326:ALA:HB1	9:O:345:GLU:OE2	2.07	0.54
9:O:388:PRO:HG3	9:O:425:ILE:HG21	1.88	0.54
10:B:156:GLY:HA2	10:B:159:TYR:HD2	1.73	0.54
10:B:211:ASN:HB3	10:B:247:ARG:HE	1.72	0.54
2:D:397:ALA:CB	8:G:45:GLU:OE1	2.27	0.54
9:O:160:ILE:N	9:O:188:PHE:HZ	1.94	0.54
10:B:237:ILE:HD12	10:B:238:ARG:NH2	2.05	0.54
1:A:419:SER:C	10:B:403:ASP:OD1	2.47	0.53
6:R:77:HIS:NE2	6:R:94:CYS:SG	2.73	0.53
7:C:391:LYS:HE2	8:G:202:GLN:OE1	2.08	0.53
8:G:70:PHE:CD1	8:G:99:LEU:HD11	2.42	0.53
8:G:71:ALA:HB1	8:G:164:LYS:N	2.23	0.53
8:G:113:TYR:N	8:G:150:GLN:O	2.37	0.53
9:O:174:GLU:CA	9:O:249:ARG:HH12	2.21	0.53
9:O:399:LEU:HD11	9:O:454:GLU:HA	1.89	0.53
9:O:556:LEU:HD12	9:O:558:TYR:HD2	1.73	0.53
9:O:728:LYS:O	9:O:730:TYR:HB3	2.08	0.53
9:O:735:GLN:HA	9:O:735:GLN:HE21	1.73	0.53
10:B:424:LEU:O	10:B:428:THR:HG23	2.08	0.53
1:A:417:TYR:HD1	10:B:402:ILE:C	2.15	0.53
8:G:41:TYR:HB3	8:G:70:PHE:HB3	1.89	0.53
9:O:326:ALA:CA	9:O:330:LEU:HD13	2.38	0.53
9:O:693:VAL:C	9:O:694:LEU:HD23	2.32	0.53
10:B:351:LEU:HG	10:B:355:ARG:HD2	1.91	0.53
1:A:456:HIS:NE2	7:C:357:MET:HG3	2.22	0.53
1:A:482:PHE:CE2	7:C:383:CYS:SG	2.99	0.53
2:D:387:LYS:HE2	8:G:159:GLY:HA3	1.88	0.53
6:R:44:ILE:HD12	6:R:84:ILE:HG13	1.91	0.53
8:G:117:LEU:C	8:G:118:LYS:HE2	2.33	0.53
8:G:146:ASP:CG	8:G:149:ASN:HB2	2.33	0.53
9:O:17:LEU:HD11	9:O:21:ILE:CD1	2.38	0.53
10:B:88:MET:O	10:B:92:TYR:HB2	2.07	0.53
3:H:86:PHE:HA	3:H:89:ILE:HD12	1.90	0.53
5:Q:67:SER:C	9:O:1:MET:CE	2.81	0.53
8:G:7:PRO:HG2	8:G:11:LEU:HD22	1.89	0.53
8:G:23:SER:H	8:G:26:ALA:HB3	1.72	0.53
3:H:165:ARG:NH1	3:H:166:LYS:O	2.42	0.53
4:P:6:MET:HE2	4:P:71:ALA:HA	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:66:PRO:HG2	9:O:2:SER:N	2.24	0.53
6:R:20:LYS:C	9:O:641:ASN:ND2	2.51	0.53
8:G:7:PRO:HG2	8:G:11:LEU:HD13	1.90	0.53
8:G:16:ILE:HG22	8:G:17:LEU:HD22	1.90	0.53
8:G:31:ILE:HD12	8:G:60:ASN:ND2	2.23	0.53
9:O:84:LEU:HB2	9:O:180:VAL:CG1	0.82	0.53
9:O:119:THR:HG22	9:O:119:THR:O	2.07	0.53
10:B:76:ILE:HA	10:B:88:MET:HG3	1.91	0.53
10:B:101:SER:O	10:B:103:VAL:HG23	2.08	0.53
10:B:245:HIS:CD2	10:B:253:LYS:HB2	2.43	0.53
3:H:27:ALA:O	7:C:75:GLU:OE2	2.25	0.53
3:H:206:PHE:HD2	7:C:376:ILE:HG23	1.73	0.53
8:G:7:PRO:HD3	8:G:40:VAL:H	1.73	0.53
9:O:163:LEU:HD23	9:O:181:ILE:CB	2.38	0.53
9:O:669:ARG:CA	9:O:672:VAL:HG12	2.38	0.53
10:B:317:ALA:HB3	10:B:326:PHE:HD1	1.74	0.53
1:A:478:MET:HE2	10:B:426:LYS:HG3	1.89	0.53
3:H:29:GLY:N	7:C:75:GLU:OE1	2.41	0.53
8:G:56:ALA:CB	8:G:64:LEU:HD22	2.31	0.53
9:O:17:LEU:HD13	9:O:21:ILE:HD12	1.90	0.53
9:O:117:LYS:HG2	9:O:120:GLU:HG3	1.90	0.53
9:O:169:ASN:HB2	9:O:175:ASP:OD1	2.08	0.53
9:O:449:MET:C	10:B:106:ASN:ND2	2.56	0.53
1:A:475:SER:HB3	10:B:426:LYS:HE2	1.91	0.53
8:G:97:LYS:HA	8:G:120:LEU:CD2	2.39	0.53
8:G:101:ILE:CG1	8:G:116:LEU:HG	2.37	0.53
8:G:142:GLN:HG2	8:G:155:ASP:HB2	1.90	0.53
9:O:197:LYS:C	9:O:199:PRO:HD3	2.34	0.53
9:O:352:GLN:HA	9:O:355:ASN:ND2	2.23	0.53
9:O:688:MET:HE2	9:O:721:CYS:HB3	1.90	0.53
10:B:142:ALA:HB3	10:B:143:LYS:HZ1	1.73	0.53
1:A:372:SER:OG	1:A:412:GLN:NE2	2.42	0.53
1:A:417:TYR:HA	10:B:402:ILE:CA	2.39	0.53
1:A:444:ILE:HD13	7:C:313:THR:HA	1.91	0.53
8:G:7:PRO:CB	8:G:38:PRO:HD2	2.39	0.53
8:G:97:LYS:HA	8:G:120:LEU:HD21	1.91	0.53
9:O:175:ASP:HB3	9:O:181:ILE:CD1	2.39	0.53
9:O:551:ARG:HD2	10:B:266:ASP:OD1	2.08	0.53
9:O:578:THR:CG2	9:O:579:THR:H	2.21	0.53
9:O:694:LEU:CD1	9:O:699:LEU:HD11	2.36	0.53
10:B:76:ILE:CD1	10:B:115:ILE:HD13	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:B:89:MET:CG	10:B:93:LYS:HE3	2.39	0.53
1:A:437:GLU:CD	7:C:314:PHE:HE1	2.13	0.53
6:R:29:ALA:O	9:O:558:TYR:CE2	2.60	0.53
8:G:74:THR:HB	8:G:76:PRO:HD2	1.91	0.53
9:O:24:VAL:HG12	9:O:24:VAL:O	2.08	0.53
9:O:724:VAL:HG23	9:O:725:LEU:CD1	2.17	0.53
1:A:422:MET:HG3	1:A:460:LEU:H	1.75	0.52
2:D:373:GLN:NE2	8:G:155:ASP:C	2.67	0.52
8:G:171:ALA:HA	8:G:174:LEU:HD12	1.89	0.52
9:O:186:ASN:HA	9:O:189:VAL:CG2	2.39	0.52
9:O:371:ALA:O	9:O:375:VAL:HG23	2.09	0.52
9:O:564:VAL:CG2	10:B:16:TYR:CZ	2.82	0.52
9:O:572:PRO:HB2	10:B:12:ASP:OD1	2.09	0.52
10:B:51:LEU:HD12	10:B:51:LEU:N	2.23	0.52
10:B:125:MET:HG2	10:B:158:LEU:HD22	1.91	0.52
8:G:179:VAL:O	8:G:183:VAL:HG13	2.08	0.52
9:O:164:LEU:O	9:O:167:ILE:HB	2.09	0.52
9:O:426:ASP:HA	9:O:709:ALA:O	2.10	0.52
9:O:475:ARG:O	9:O:479:ASP:HB2	2.08	0.52
9:O:574:VAL:HG23	10:B:16:TYR:CD1	2.41	0.52
9:O:607:GLU:OE2	9:O:610:LEU:HD22	2.10	0.52
10:B:63:GLU:HB2	10:B:104:THR:HG23	1.88	0.52
10:B:67:TRP:CZ2	10:B:70:LYS:HB2	2.44	0.52
10:B:297:GLN:NE2	10:B:297:GLN:HA	2.25	0.52
4:P:34:ILE:HG12	5:Q:32:LYS:HE3	1.91	0.52
5:Q:61:ASN:H	9:O:42:ILE:HG21	1.72	0.52
6:R:66:GLU:C	10:B:297:GLN:OE1	2.48	0.52
6:R:75:CYS:O	6:R:99:ARG:NE	2.34	0.52
8:G:62:ALA:HA	8:G:65:GLN:CD	2.34	0.52
8:G:96:LEU:HG	8:G:99:LEU:CD1	2.39	0.52
8:G:98:HIS:CA	8:G:101:ILE:HG22	2.33	0.52
8:G:114:SER:O	8:G:118:LYS:HG2	2.09	0.52
8:G:127:GLU:OE1	8:G:127:GLU:N	2.36	0.52
9:O:311:MET:CG	9:O:364:PHE:HE1	2.12	0.52
9:O:407:THR:HG22	9:O:408:GLU:N	2.24	0.52
9:O:691:ARG:HB2	9:O:694:LEU:CD1	2.33	0.52
10:B:198:TYR:HE1	10:B:220:GLN:HB3	1.74	0.52
10:B:350:LEU:CD1	10:B:354:ILE:HD11	2.40	0.52
10:B:367:THR:HA	10:B:413:HIS:HB2	1.91	0.52
1:A:145:LEU:HD23	1:A:148:ALA:HB3	1.92	0.52
2:D:63:ARG:NH2	2:D:98:SER:O	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:392:ALA:HB2	8:G:162:ILE:HG12	1.82	0.52
6:R:66:GLU:HB2	10:B:297:GLN:HG3	1.91	0.52
8:G:27:LEU:HD21	8:G:55:LEU:HA	1.91	0.52
9:O:132:MET:HE3	9:O:134:GLU:HB2	1.90	0.52
9:O:155:LEU:HD11	9:O:187:SER:OG	1.98	0.52
10:B:153:THR:HG22	10:B:157:LYS:HE3	1.91	0.52
10:B:213:LYS:O	10:B:213:LYS:HD3	2.10	0.52
1:A:92:SER:N	1:A:317:PRO:O	2.42	0.52
8:G:74:THR:O	8:G:77:ASP:HB2	2.09	0.52
9:O:85:VAL:CB	9:O:180:VAL:HG22	2.38	0.52
9:O:117:LYS:HZ1	9:O:120:GLU:HG2	1.73	0.52
9:O:271:VAL:HG11	9:O:304:VAL:HG11	1.91	0.52
9:O:281:GLU:HA	9:O:284:ASN:HD22	1.75	0.52
9:O:564:VAL:HG22	9:O:575:ALA:O	2.08	0.52
9:O:696:HIS:CE1	9:O:718:ILE:HG21	2.44	0.52
1:A:79:ASN:ND2	1:A:81:SER:OG	2.43	0.52
3:H:63:ALA:O	3:H:67:ALA:N	2.43	0.52
8:G:104:LEU:O	8:G:111:ILE:HD11	2.09	0.52
8:G:140:ILE:CG1	8:G:158:ILE:HG12	2.39	0.52
9:O:80:GLU:CG	9:O:81:GLU:H	2.22	0.52
9:O:163:LEU:CD1	9:O:185:ILE:HG12	2.40	0.52
10:B:119:ILE:HG21	10:B:128:LEU:HA	1.91	0.52
10:B:187:ASP:OD2	10:B:192:THR:HA	2.09	0.52
1:A:495:VAL:CA	7:C:169:ILE:CD1	2.88	0.52
5:Q:64:GLU:HB3	9:O:49:TYR:H	1.74	0.52
9:O:80:GLU:HG3	9:O:81:GLU:H	1.74	0.52
9:O:402:SER:OG	9:O:447:LEU:HD13	2.09	0.52
9:O:581:GLN:O	9:O:585:LEU:HG	2.10	0.52
10:B:57:VAL:HG13	10:B:68:GLY:CA	2.40	0.52
2:D:60:VAL:HG23	9:O:602:SER:O	2.08	0.52
5:Q:68:HIS:CD2	9:O:1:MET:SD	3.02	0.52
9:O:65:LEU:HD23	9:O:65:LEU:C	2.35	0.52
9:O:167:ILE:HD12	9:O:211:PHE:HE1	1.75	0.52
9:O:254:LEU:HD12	9:O:254:LEU:O	2.10	0.52
9:O:475:ARG:C	9:O:478:THR:HG22	2.34	0.52
10:B:33:GLU:OE1	10:B:33:GLU:HA	2.06	0.52
10:B:119:ILE:HA	10:B:122:SER:OG	2.09	0.52
1:A:244:VAL:HG12	1:A:248:LEU:HG	1.92	0.52
2:D:207:ARG:HA	6:R:91:ARG:HH21	1.75	0.52
8:G:41:TYR:HB3	8:G:70:PHE:CD1	2.45	0.52
9:O:439:LEU:HD13	9:O:442:ARG:HH21	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:B:43:LYS:O	10:B:44:GLU:HB2	2.09	0.52
2:D:387:LYS:HD2	8:G:159:GLY:HA2	1.85	0.52
5:Q:20:LYS:HD3	5:Q:28:GLU:HB3	1.92	0.52
9:O:480:MET:HG3	9:O:510:TYR:HE1	1.75	0.52
9:O:622:MET:HG3	9:O:655:THR:OG1	2.10	0.52
9:O:696:HIS:HE1	9:O:718:ILE:CG2	2.23	0.52
9:O:728:LYS:HB2	9:O:728:LYS:HZ2	1.73	0.52
10:B:1:MET:HG2	10:B:2:SER:N	2.24	0.52
10:B:290:GLY:O	10:B:293:PRO:HD3	2.10	0.52
1:A:242:ILE:HD11	1:A:258:VAL:HA	1.91	0.51
1:A:322:PRO:O	1:A:326:ALA:HB2	2.10	0.51
2:D:365:GLU:CD	8:G:153:GLU:CD	2.78	0.51
8:G:129:GLU:O	8:G:133:ILE:HG12	2.10	0.51
8:G:208:GLN:O	8:G:212:GLU:HG2	2.10	0.51
9:O:85:VAL:CB	9:O:180:VAL:CG2	2.84	0.51
9:O:159:LEU:O	9:O:184:VAL:HG21	2.09	0.51
9:O:648:ARG:CD	9:O:652:LYS:HD2	2.40	0.51
10:B:76:ILE:HD12	10:B:115:ILE:HG23	1.91	0.51
10:B:137:GLU:O	10:B:140:LYS:HE3	2.10	0.51
10:B:297:GLN:O	10:B:300:LYS:HE3	2.09	0.51
10:B:411:LEU:HD12	10:B:411:LEU:N	2.25	0.51
1:A:454:ASP:C	7:C:316:THR:HB	2.36	0.51
1:A:490:MET:O	7:C:167:MET:HG2	2.09	0.51
3:H:41:LEU:HB3	3:H:71:LEU:HD11	1.91	0.51
3:H:125:TYR:OH	7:C:339:LEU:HD21	2.10	0.51
5:Q:33:ARG:HE	5:Q:49:PRO:HB2	1.75	0.51
8:G:110:CYS:O	8:G:151:LEU:HD22	2.10	0.51
9:O:25:VAL:C	9:O:27:LEU:H	2.18	0.51
9:O:187:SER:O	9:O:191:VAL:HG23	2.11	0.51
9:O:325:ARG:HD3	9:O:325:ARG:N	2.25	0.51
10:B:29:ASN:HA	10:B:32:LEU:HD21	1.91	0.51
10:B:110:LYS:HA	10:B:113:ASN:HD22	1.75	0.51
1:A:455:SER:N	7:C:316:THR:CB	2.73	0.51
6:R:21:ARG:HG2	9:O:641:ASN:HB2	1.91	0.51
8:G:15:PHE:HD1	8:G:30:LEU:HD12	1.73	0.51
8:G:114:SER:HA	8:G:117:LEU:HD12	1.91	0.51
9:O:57:LEU:HD23	9:O:57:LEU:O	2.10	0.51
9:O:84:LEU:HG	9:O:184:VAL:CG1	2.38	0.51
9:O:297:MET:O	9:O:301:LEU:HG	2.10	0.51
9:O:440:ALA:O	9:O:444:ILE:HG12	2.09	0.51
9:O:490:PHE:CE1	9:O:543:PHE:CD2	2.99	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:B:14:GLU:C	10:B:67:TRP:CE2	2.89	0.51
10:B:85:PHE:N	10:B:86:PRO:HD2	2.26	0.51
1:A:339:ARG:HH12	1:A:370:TYR:HA	1.76	0.51
1:A:494:ALA:HB2	7:C:167:MET:CB	2.41	0.51
2:D:201:PHE:O	2:D:205:ALA:CB	2.59	0.51
2:D:331:PRO:HD2	2:D:334:LYS:HD2	1.91	0.51
5:Q:66:PRO:HD3	9:O:3:LEU:CB	2.39	0.51
9:O:166:GLU:HA	9:O:169:ASN:ND2	2.26	0.51
9:O:174:GLU:OE2	9:O:252:LYS:HE2	2.09	0.51
10:B:18:LEU:HD23	10:B:19:GLU:HA	1.92	0.51
10:B:98:TYR:CD1	10:B:103:VAL:HG21	2.45	0.51
10:B:116:LEU:HD13	10:B:132:TYR:CE1	2.46	0.51
10:B:193:GLN:NE2	10:B:197:ILE:HG12	2.25	0.51
10:B:211:ASN:HB3	10:B:247:ARG:NE	2.26	0.51
2:D:227:LYS:HD3	2:D:258:LEU:HD22	1.93	0.51
2:D:317:ASN:OD1	8:G:144:LYS:HD3	2.11	0.51
2:D:392:ALA:CB	8:G:42:VAL:C	2.77	0.51
5:Q:64:GLU:HG2	5:Q:65:ILE:HG13	1.92	0.51
8:G:172:ARG:NE	8:G:172:ARG:HA	2.25	0.51
9:O:144:LEU:HD13	9:O:196:LYS:CE	2.24	0.51
9:O:409:ASN:HD21	10:B:143:LYS:C	2.16	0.51
10:B:15:ASP:HA	10:B:67:TRP:CD2	2.44	0.51
1:A:340:GLN:O	1:A:344:ARG:CB	2.58	0.51
1:A:455:SER:N	7:C:316:THR:CA	2.74	0.51
1:A:490:MET:CE	7:C:386:LEU:HD12	2.40	0.51
2:D:175:GLN:NE2	2:D:176:ASN:OD1	2.44	0.51
2:D:285:LEU:HD11	2:D:300:LEU:HD22	1.91	0.51
5:Q:62:PHE:HA	9:O:46:CYS:SG	2.50	0.51
8:G:66:LEU:N	8:G:85:LEU:HD22	2.26	0.51
8:G:124:ASN:HB3	8:G:126:ARG:NH1	2.25	0.51
9:O:80:GLU:HG3	9:O:81:GLU:N	2.25	0.51
9:O:174:GLU:OE2	9:O:252:LYS:CE	2.58	0.51
9:O:180:VAL:O	9:O:184:VAL:HG13	2.10	0.51
9:O:640:LEU:HD12	9:O:640:LEU:N	2.26	0.51
10:B:60:LEU:HD13	10:B:60:LEU:C	2.36	0.51
10:B:359:LEU:HG	10:B:363:ILE:CD1	2.36	0.51
2:D:89:LEU:HD21	2:D:107:ARG:HE	1.76	0.51
8:G:5:GLN:OE1	8:G:158:ILE:HD12	2.10	0.51
8:G:116:LEU:O	8:G:120:LEU:HB2	2.11	0.51
9:O:84:LEU:CD1	9:O:180:VAL:HG11	2.41	0.51
10:B:314:LEU:CD1	10:B:337:ILE:HD12	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:B:416:ARG:HG2	10:B:416:ARG:O	2.11	0.51
1:A:417:TYR:HA	10:B:402:ILE:C	2.36	0.51
8:G:100:THR:CG2	8:G:120:LEU:HD21	2.40	0.51
9:O:540:PHE:CE2	9:O:544:TYR:CD1	2.99	0.51
9:O:680:LEU:HD11	9:O:714:SER:OG	2.11	0.51
10:B:18:LEU:HG	10:B:65:GLY:CA	2.33	0.51
10:B:351:LEU:HD11	10:B:355:ARG:HH11	1.74	0.51
10:B:368:ARG:HG2	10:B:410:GLU:HG3	1.93	0.51
1:A:335:ALA:O	1:A:408:ARG:NH2	2.42	0.51
1:A:417:TYR:CD1	10:B:402:ILE:CG2	2.94	0.51
2:D:60:VAL:CB	9:O:602:SER:O	2.59	0.51
3:H:29:GLY:CA	7:C:75:GLU:OE1	2.59	0.51
5:Q:79:TYR:OH	5:Q:91:PRO:O	2.24	0.51
8:G:72:TYR:CZ	8:G:164:LYS:HB2	2.46	0.51
10:B:25:ASN:HB3	10:B:28:PRO:HD2	1.92	0.51
10:B:270:SER:CB	10:B:273:ARG:HE	2.18	0.51
10:B:372:PRO:O	10:B:376:LYS:HG3	2.11	0.51
10:B:388:LEU:HD13	10:B:388:LEU:C	2.35	0.51
10:B:389:LEU:O	10:B:393:ILE:HD12	2.11	0.51
10:B:400:GLY:HA3	10:B:411:LEU:HA	1.92	0.51
5:Q:58:ASN:HD21	9:O:32:ARG:NH2	2.08	0.51
7:C:370:PRO:O	7:C:371:ALA:C	2.54	0.51
9:O:58:TYR:OH	9:O:139:ILE:HA	2.10	0.51
9:O:486:LEU:HD23	9:O:489:LYS:HE3	1.93	0.51
10:B:15:ASP:O	10:B:18:LEU:HD22	2.10	0.51
1:A:193:ILE:HG22	1:A:196:SER:H	1.76	0.50
1:A:417:TYR:HD1	10:B:402:ILE:HG22	1.75	0.50
1:A:501:HIS:HB2	7:C:212:PRO:CG	2.42	0.50
2:D:60:VAL:HB	9:O:602:SER:O	2.11	0.50
5:Q:47:SER:OG	5:Q:58:ASN:OD1	2.29	0.50
6:R:22:PHE:CD1	9:O:577:VAL:HG23	2.32	0.50
9:O:167:ILE:N	9:O:253:TYR:OH	2.43	0.50
10:B:128:LEU:HG	10:B:132:TYR:CE2	2.47	0.50
10:B:300:LYS:HB2	10:B:301:PRO:CD	2.41	0.50
10:B:356:THR:O	10:B:360:ILE:HG13	2.11	0.50
10:B:357:GLN:HA	10:B:360:ILE:HD12	1.93	0.50
4:P:5:LEU:HA	4:P:72:PRO:HG3	1.92	0.50
8:G:135:ALA:O	8:G:140:ILE:HG22	2.11	0.50
9:O:6:ARG:H	9:O:6:ARG:HD3	1.76	0.50
9:O:53:LEU:HD12	9:O:53:LEU:N	2.26	0.50
9:O:315:LEU:HB2	9:O:367:ALA:CB	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:44:TYR:HB3	3:H:53:ALA:HB2	1.92	0.50
7:C:117:PRO:HD2	7:C:152:ALA:HB2	1.93	0.50
9:O:73:HIS:ND1	9:O:150:LEU:HD12	2.27	0.50
9:O:85:VAL:HG22	9:O:180:VAL:CG2	1.94	0.50
9:O:241:GLY:HA2	9:O:244:LYS:HD2	1.94	0.50
9:O:267:GLN:HB3	9:O:304:VAL:HG12	1.92	0.50
9:O:572:PRO:CB	10:B:12:ASP:OD2	2.44	0.50
9:O:658:GLN:HG3	9:O:659:LYS:N	2.25	0.50
9:O:687:ILE:HG23	9:O:706:GLN:HE22	1.77	0.50
10:B:8:PHE:CE2	10:B:43:LYS:CG	2.95	0.50
1:A:186:LYS:HG2	5:Q:85:ASN:HD22	1.76	0.50
2:D:394:GLU:HG3	8:G:48:GLU:N	2.07	0.50
3:H:34:PRO:HB3	3:H:68:ASN:HB2	1.93	0.50
8:G:129:GLU:N	8:G:129:GLU:OE1	2.45	0.50
9:O:148:ARG:HA	9:O:151:MET:HE2	1.94	0.50
9:O:174:GLU:HA	9:O:174:GLU:OE1	2.11	0.50
9:O:683:ALA:HA	9:O:686:ARG:NH1	2.26	0.50
5:Q:66:PRO:O	9:O:1:MET:CG	2.52	0.50
10:B:119:ILE:HD13	10:B:131:PHE:CG	2.47	0.50
1:A:420:ALA:HB3	1:A:460:LEU:HD23	1.93	0.50
3:H:42:ALA:HB2	3:H:102:VAL:HG22	1.94	0.50
8:G:55:LEU:HD21	8:G:63:TYR:CD2	2.46	0.50
8:G:169:ALA:O	8:G:173:THR:HG23	2.11	0.50
9:O:30:VAL:HG23	9:O:30:VAL:O	2.10	0.50
9:O:415:LEU:HA	9:O:418:PHE:CD2	2.42	0.50
8:G:149:ASN:O	8:G:151:LEU:HG	2.11	0.50
9:O:175:ASP:OD2	9:O:252:LYS:HB2	2.11	0.50
9:O:463:GLN:HB3	10:B:190:LYS:NZ	2.27	0.50
4:P:25:PHE:HB2	4:P:53:ASP:HB3	1.94	0.50
8:G:113:TYR:CE2	8:G:147:GLN:HA	2.47	0.50
8:G:113:TYR:CE2	8:G:150:GLN:HA	2.47	0.50
9:O:73:HIS:HB2	9:O:150:LEU:HD12	1.94	0.50
10:B:8:PHE:CE2	10:B:43:LYS:CB	2.95	0.50
10:B:37:TYR:CD1	10:B:56:LYS:CB	2.95	0.50
10:B:63:GLU:CA	10:B:104:THR:HG23	2.42	0.50
10:B:259:PHE:CE2	10:B:263:LYS:HD2	2.46	0.50
1:A:95:MET:HA	1:A:98:GLU:HB2	1.94	0.50
2:D:155:TYR:HB3	2:D:160:ASP:HB3	1.94	0.50
2:D:386:GLU:HG2	8:G:4:GLU:CG	2.42	0.50
2:D:392:ALA:O	2:D:396:THR:N	2.44	0.50
9:O:113:ILE:HD12	9:O:113:ILE:C	2.36	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:O:148:ARG:NE	9:O:192:GLU:O	2.45	0.50
9:O:193:GLN:HG3	9:O:195:LYS:N	2.27	0.50
9:O:346:VAL:HG13	9:O:350:PHE:HE2	1.77	0.50
9:O:505:ILE:HG12	9:O:506:SER:N	2.27	0.50
10:B:285:MET:HB3	10:B:350:LEU:HD21	1.92	0.50
10:B:321:ASN:HD22	10:B:354:ILE:HG23	1.77	0.50
1:A:218:LEU:O	1:A:222:SER:CB	2.60	0.49
9:O:279:HIS:HB3	9:O:310:HIS:HB3	1.94	0.49
9:O:505:ILE:CG2	9:O:507:PHE:CE1	2.95	0.49
10:B:30:VAL:O	10:B:30:VAL:HG12	2.12	0.49
10:B:67:TRP:CH2	10:B:70:LYS:CB	2.95	0.49
1:A:242:ILE:HA	1:A:245:SER:HB2	1.94	0.49
1:A:339:ARG:NE	10:B:394:LEU:HD13	2.27	0.49
8:G:117:LEU:HD23	8:G:122:MET:CB	2.43	0.49
9:O:400:LYS:HA	9:O:448:SER:HA	1.95	0.49
10:B:30:VAL:HG12	10:B:60:LEU:HB3	1.92	0.49
8:G:129:GLU:O	8:G:133:ILE:HG23	2.12	0.49
8:G:187:GLY:O	8:G:191:GLN:HG2	2.12	0.49
8:G:188:ILE:O	8:G:192:VAL:HG23	2.12	0.49
9:O:146:MET:HE1	9:O:149:LYS:HZ3	1.77	0.49
9:O:164:LEU:HA	9:O:207:PHE:CZ	2.26	0.49
9:O:185:ILE:HD13	9:O:188:PHE:CE2	2.47	0.49
9:O:327:THR:HG23	9:O:346:VAL:HG23	1.88	0.49
9:O:556:LEU:CD1	9:O:558:TYR:CD2	2.95	0.49
9:O:703:VAL:HG12	9:O:707:SER:OG	2.12	0.49
10:B:37:TYR:CE1	10:B:56:LYS:HD3	2.48	0.49
10:B:146:ARG:HH21	10:B:192:THR:HG22	1.76	0.49
1:A:214:LEU:HD22	1:A:244:VAL:HG13	1.94	0.49
1:A:467:GLN:NE2	1:A:471:THR:OG1	2.43	0.49
8:G:50:ALA:HA	8:G:53:GLN:HB2	1.95	0.49
8:G:98:HIS:O	8:G:102:VAL:HG22	2.12	0.49
9:O:148:ARG:CB	9:O:151:MET:HE2	2.41	0.49
9:O:294:MET:HA	9:O:294:MET:CE	2.30	0.49
9:O:729:GLN:HB3	9:O:744:VAL:HG12	1.95	0.49
10:B:146:ARG:CZ	10:B:193:GLN:HB3	2.42	0.49
5:Q:66:PRO:CD	9:O:3:LEU:CA	2.78	0.49
6:R:20:LYS:CG	9:O:641:ASN:ND2	2.68	0.49
9:O:146:MET:HE2	9:O:146:MET:CA	2.43	0.49
9:O:166:GLU:OE1	9:O:181:ILE:CG1	2.56	0.49
2:D:93:GLN:HA	2:D:96:VAL:HB	1.95	0.49
4:P:101:ASP:HA	4:P:104:LYS:HE3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:42:VAL:HG21	8:G:71:ALA:HA	1.94	0.49
8:G:66:LEU:CA	8:G:85:LEU:HD22	2.43	0.49
9:O:166:GLU:CB	9:O:253:TYR:CE1	2.96	0.49
8:G:13:GLU:HA	8:G:16:ILE:HB	1.93	0.49
8:G:14:GLN:OE1	8:G:18:LEU:HD11	2.13	0.49
8:G:27:LEU:HD21	8:G:55:LEU:CB	2.43	0.49
8:G:98:HIS:O	8:G:102:VAL:HG13	2.13	0.49
8:G:190:GLU:O	8:G:194:ARG:HG3	2.12	0.49
9:O:431:PHE:CE2	9:O:461:LEU:HD11	2.44	0.49
9:O:732:GLU:HB3	9:O:741:TYR:CG	2.48	0.49
10:B:76:ILE:HG22	10:B:88:MET:HA	1.93	0.49
10:B:153:THR:CG2	10:B:157:LYS:HE3	2.42	0.49
10:B:232:LEU:HD11	10:B:268:SER:CA	2.41	0.49
10:B:245:HIS:CB	10:B:254:ALA:HB2	2.43	0.49
2:D:393:PRO:HD2	8:G:43:PHE:CD1	2.48	0.49
8:G:23:SER:CA	8:G:27:LEU:HB2	2.31	0.49
9:O:301:LEU:HD13	9:O:311:MET:SD	2.52	0.49
9:O:350:PHE:O	9:O:353:LEU:HB3	2.13	0.49
9:O:511:VAL:HG13	9:O:513:GLN:N	2.28	0.49
9:O:580:TYR:HB3	9:O:638:PHE:HE2	1.78	0.49
10:B:21:SER:CB	10:B:64:LYS:CB	2.90	0.49
10:B:132:TYR:HB2	10:B:155:LEU:HD13	1.95	0.49
10:B:205:TYR:CB	10:B:214:LEU:HD23	2.42	0.49
1:A:321:SER:OG	1:A:324:ASN:OD1	2.30	0.49
2:D:145:LEU:HB3	2:D:183:LEU:HD21	1.93	0.49
5:Q:61:ASN:HB2	9:O:43:TYR:N	2.27	0.49
8:G:79:ILE:HD13	8:G:121:GLU:HB2	1.95	0.49
9:O:151:MET:CA	9:O:155:LEU:HD23	2.37	0.49
9:O:663:GLN:HA	9:O:666:GLU:CD	2.38	0.49
9:O:685:VAL:O	9:O:689:LYS:HG2	2.13	0.49
9:O:734:SER:HB2	9:O:741:TYR:CE1	2.48	0.49
10:B:190:LYS:HG2	10:B:226:SER:O	2.13	0.49
2:D:95:ARG:NH2	9:O:530:PRO:HA	2.28	0.49
8:G:43:PHE:HB3	8:G:46:LEU:HB2	1.94	0.49
9:O:45:LEU:HD12	9:O:45:LEU:N	2.28	0.49
1:A:278:THR:O	1:A:313:HIS:ND1	2.46	0.48
1:A:417:TYR:CD1	10:B:402:ILE:HG22	2.48	0.48
3:H:208:GLU:CG	10:B:422:THR:CG2	2.68	0.48
10:B:25:ASN:CB	10:B:28:PRO:HD2	2.42	0.48
10:B:51:LEU:H	10:B:51:LEU:CD1	2.26	0.48
10:B:128:LEU:HD23	10:B:158:LEU:HD11	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:B:248:GLU:OE1	10:B:248:GLU:HA	2.13	0.48
5:Q:66:PRO:HD3	9:O:3:LEU:CA	2.41	0.48
8:G:15:PHE:CD1	8:G:30:LEU:HD12	2.48	0.48
8:G:15:PHE:HB3	8:G:30:LEU:HD11	1.94	0.48
8:G:49:LEU:CD2	8:G:51:ASN:HB2	2.43	0.48
9:O:209:SER:CB	9:O:210:PRO:HD3	2.35	0.48
9:O:735:GLN:HE21	9:O:735:GLN:CA	2.26	0.48
10:B:270:SER:HA	10:B:273:ARG:HG3	1.95	0.48
1:A:122:VAL:HG13	1:A:127:ASN:HB3	1.95	0.48
1:A:419:SER:O	10:B:404:GLN:N	2.46	0.48
1:A:424:ARG:HH12	10:B:405:VAL:HA	0.67	0.48
2:D:394:GLU:HG3	8:G:48:GLU:HB2	1.94	0.48
3:H:29:GLY:H	7:C:119:ARG:NH1	2.09	0.48
3:H:33:THR:HG22	3:H:35:PRO:HD2	1.94	0.48
4:P:70:GLN:HB3	5:Q:79:TYR:HB2	1.95	0.48
8:G:136:VAL:HG12	8:G:141:ILE:HG21	1.95	0.48
8:G:147:GLN:HE21	8:G:150:GLN:HE22	1.61	0.48
9:O:159:LEU:HD22	9:O:187:SER:HB2	1.95	0.48
9:O:691:ARG:HE	9:O:694:LEU:CD1	2.26	0.48
10:B:3:ASP:CB	10:B:47:PRO:HG3	2.39	0.48
10:B:11:ASP:CB	10:B:42:LEU:HD23	2.36	0.48
10:B:125:MET:SD	10:B:161:GLU:HB2	2.53	0.48
10:B:146:ARG:HD3	10:B:149:PHE:CD2	2.47	0.48
1:A:476:LEU:HD12	3:H:207:LEU:HD11	1.96	0.48
7:C:399:VAL:O	7:C:400:ASN:OD1	2.19	0.48
8:G:19:ALA:HB1	8:G:51:ASN:HB3	1.95	0.48
8:G:195:ALA:O	8:G:198:HIS:HB3	2.13	0.48
9:O:6:ARG:HD3	9:O:6:ARG:N	2.29	0.48
10:B:14:GLU:OE2	10:B:70:LYS:HE3	2.12	0.48
10:B:75:MET:CE	10:B:87:GLU:HG2	2.44	0.48
1:A:181:LEU:HB3	1:A:204:LEU:HD11	1.95	0.48
1:A:262:GLU:HG3	1:A:285:LEU:HD22	1.95	0.48
1:A:417:TYR:HD1	10:B:402:ILE:CG2	2.25	0.48
2:D:392:ALA:HB3	8:G:162:ILE:CG1	2.19	0.48
6:R:23:GLU:N	9:O:577:VAL:HG12	2.22	0.48
8:G:36:GLU:O	8:G:38:PRO:HD3	2.13	0.48
9:O:73:HIS:CB	9:O:150:LEU:HD12	2.43	0.48
9:O:166:GLU:CG	9:O:181:ILE:HD13	2.37	0.48
9:O:244:LYS:O	9:O:248:ILE:HG12	2.14	0.48
9:O:451:MET:HA	9:O:451:MET:CE	2.30	0.48
9:O:608:LYS:N	9:O:608:LYS:HD2	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:O:718:ILE:O	9:O:722:ILE:HG12	2.12	0.48
9:O:724:VAL:HG23	9:O:725:LEU:H	1.77	0.48
1:A:79:ASN:HB3	1:A:390:LEU:HD11	1.94	0.48
1:A:112:VAL:HG11	1:A:145:LEU:HD11	1.96	0.48
6:R:72:TRP:NE1	6:R:97:ASP:OD2	2.47	0.48
8:G:41:TYR:HB2	8:G:161:ASP:OD1	2.13	0.48
8:G:42:VAL:CG1	8:G:164:LYS:HG3	2.44	0.48
8:G:89:SER:O	8:G:93:GLN:HG3	2.12	0.48
8:G:111:ILE:O	8:G:151:LEU:HA	2.13	0.48
8:G:113:TYR:HE2	8:G:147:GLN:HA	1.78	0.48
8:G:128:LEU:O	8:G:132:ILE:HG13	2.13	0.48
9:O:160:ILE:CD1	9:O:206:ILE:CG2	2.92	0.48
9:O:215:THR:CG2	9:O:219:TYR:CE2	2.96	0.48
9:O:348:GLY:O	9:O:352:GLN:HG3	2.12	0.48
10:B:246:LEU:HB3	10:B:342:PHE:CE1	2.48	0.48
10:B:341:PRO:HA	10:B:344:ARG:NH1	2.28	0.48
5:Q:102:GLU:HA	5:Q:105:MET:HB2	1.94	0.48
10:B:67:TRP:CZ2	10:B:70:LYS:CD	2.94	0.48
10:B:76:ILE:HB	10:B:88:MET:HG3	1.95	0.48
3:H:59:ARG:NH1	7:C:118:LEU:CB	2.77	0.48
8:G:42:VAL:HG13	8:G:71:ALA:HB2	1.95	0.48
8:G:140:ILE:HA	8:G:158:ILE:HG23	1.96	0.48
9:O:354:ILE:HA	9:O:358:LEU:HD12	1.95	0.48
9:O:387:ALA:HB3	9:O:388:PRO:CD	2.38	0.48
9:O:453:SER:CA	10:B:188:LEU:HD11	2.42	0.48
9:O:504:GLY:HA2	9:O:507:PHE:CE2	2.48	0.48
10:B:76:ILE:CB	10:B:88:MET:HG3	2.44	0.48
10:B:78:ILE:HG23	10:B:82:LEU:CG	2.44	0.48
10:B:112:ILE:HD13	10:B:115:ILE:CD1	2.34	0.48
10:B:157:LYS:CE	10:B:200:LEU:HD21	2.44	0.48
2:D:387:LYS:HE2	8:G:159:GLY:CA	2.42	0.48
5:Q:64:GLU:HB3	9:O:49:TYR:N	2.23	0.48
8:G:66:LEU:O	8:G:69:LEU:HB3	2.13	0.48
9:O:4:LYS:HB2	9:O:5:PRO:CD	2.43	0.48
9:O:174:GLU:CD	9:O:252:LYS:CE	2.83	0.48
9:O:384:VAL:HG12	9:O:427:ASP:OD2	2.13	0.48
10:B:76:ILE:CA	10:B:88:MET:HG3	2.43	0.48
2:D:114:TYR:HB2	2:D:123:ALA:HB2	1.96	0.48
2:D:195:LEU:HD13	2:D:204:ALA:HA	1.95	0.48
4:P:32:GLU:HA	4:P:37:ARG:H	1.78	0.48
5:Q:64:GLU:HB3	9:O:47:VAL:C	2.39	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:52:VAL:HA	8:G:55:LEU:CB	2.43	0.48
9:O:75:ARG:HB3	9:O:90:TYR:OH	2.13	0.48
9:O:170:ASP:CG	9:O:246:GLU:HA	2.38	0.48
9:O:320:HIS:ND1	9:O:374:SER:HB3	2.28	0.48
9:O:339:PHE:CB	9:O:390:LEU:HD12	2.44	0.48
9:O:401:LYS:NZ	9:O:449:MET:HG3	2.28	0.48
10:B:159:TYR:CD1	10:B:164:GLU:HB3	2.48	0.48
10:B:187:ASP:HB2	10:B:192:THR:O	2.14	0.48
10:B:403:ASP:HB3	10:B:406:ASN:HB2	1.96	0.48
1:A:487:LYS:HD3	7:C:200:ARG:HH12	1.79	0.47
1:A:490:MET:HE1	7:C:389:ARG:HB2	1.96	0.47
5:Q:66:PRO:HG2	9:O:2:SER:CA	2.44	0.47
8:G:7:PRO:CG	8:G:11:LEU:HD13	2.44	0.47
8:G:201:GLN:O	8:G:205:LEU:HG	2.14	0.47
9:O:26:MET:O	9:O:27:LEU:HB2	2.14	0.47
9:O:385:CYS:O	9:O:389:GLU:HG3	2.13	0.47
9:O:467:TYR:N	9:O:467:TYR:CD1	2.81	0.47
9:O:684:ILE:HB	9:O:717:MET:HG3	1.95	0.47
10:B:66:GLU:HG2	10:B:69:PHE:HB2	1.96	0.47
10:B:73:LYS:HA	10:B:76:ILE:HG12	1.97	0.47
10:B:148:TRP:CD1	10:B:152:ASN:HB2	2.49	0.47
10:B:355:ARG:O	10:B:358:VAL:HG22	2.14	0.47
2:D:386:GLU:O	2:D:390:GLN:CB	2.62	0.47
4:P:63:THR:N	4:P:66:THR:OG1	2.48	0.47
9:O:16:LYS:O	9:O:20:THR:HG22	2.13	0.47
9:O:88:HIS:CD2	9:O:179:LYS:CG	2.96	0.47
9:O:159:LEU:CD2	9:O:187:SER:HB2	2.43	0.47
9:O:323:GLY:HA2	9:O:346:VAL:HG21	1.94	0.47
9:O:513:GLN:HG3	9:O:551:ARG:HH21	1.78	0.47
10:B:29:ASN:CG	10:B:30:VAL:H	2.22	0.47
10:B:152:ASN:OD1	10:B:171:ILE:HD13	2.13	0.47
1:A:327:ILE:HG23	1:A:331:LEU:HD12	1.96	0.47
1:A:424:ARG:NH1	10:B:405:VAL:CB	2.59	0.47
8:G:117:LEU:CD2	8:G:128:LEU:HD13	2.43	0.47
9:O:147:TRP:HD1	9:O:190:HIS:HD2	1.59	0.47
9:O:245:ASP:HA	9:O:248:ILE:HG12	1.95	0.47
9:O:327:THR:HG22	9:O:343:VAL:CA	2.40	0.47
9:O:668:THR:O	9:O:668:THR:HG22	2.13	0.47
10:B:14:GLU:HB2	10:B:70:LYS:HD2	1.96	0.47
10:B:21:SER:CB	10:B:64:LYS:HD2	2.35	0.47
10:B:78:ILE:HG23	10:B:82:LEU:CD1	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:B:119:ILE:HB	10:B:128:LEU:CD1	2.44	0.47
1:A:490:MET:HE3	7:C:386:LEU:HD12	1.95	0.47
6:R:26:LYS:HE3	9:O:561:THR:HB	1.95	0.47
8:G:71:ALA:HB2	8:G:164:LYS:HG3	1.96	0.47
8:G:117:LEU:HD23	8:G:128:LEU:HD13	1.95	0.47
9:O:80:GLU:HB2	9:O:162:MET:HE3	1.97	0.47
9:O:108:LEU:HB3	9:O:112:PHE:CE1	2.49	0.47
9:O:166:GLU:O	9:O:169:ASN:HB2	2.15	0.47
9:O:354:ILE:HD13	9:O:358:LEU:HD12	1.95	0.47
10:B:72:LEU:CB	10:B:95:LEU:HD21	2.38	0.47
10:B:129:GLN:HE22	10:B:162:ARG:HH12	1.61	0.47
10:B:215:LYS:HE2	10:B:244:MET:HG3	1.96	0.47
10:B:225:LYS:HG3	10:B:226:SER:N	2.28	0.47
10:B:244:MET:HA	10:B:247:ARG:NH1	2.29	0.47
10:B:401:ARG:HG2	10:B:402:ILE:N	2.29	0.47
1:A:421:ASP:HA	1:A:459:ILE:HG23	1.96	0.47
4:P:28:LYS:NZ	4:P:42:GLN:O	2.41	0.47
9:O:408:GLU:HG2	10:B:105:ARG:NE	2.22	0.47
9:O:443:LEU:HD21	9:O:480:MET:HB2	1.97	0.47
9:O:452:ASP:OD2	10:B:146:ARG:HB2	2.15	0.47
9:O:669:ARG:C	9:O:672:VAL:HG12	2.40	0.47
10:B:15:ASP:N	10:B:67:TRP:CE2	2.82	0.47
10:B:140:LYS:HE2	10:B:148:TRP:CZ3	2.47	0.47
10:B:325:GLU:OE2	10:B:328:LYS:HE3	2.14	0.47
1:A:102:PHE:O	1:A:106:HIS:N	2.37	0.47
1:A:475:SER:O	10:B:426:LYS:HE2	2.15	0.47
3:H:102:VAL:HG12	3:H:106:MET:HG2	1.97	0.47
6:R:77:HIS:CD2	6:R:84:ILE:HD11	2.50	0.47
8:G:47:LEU:HA	8:G:52:VAL:HB	1.96	0.47
8:G:142:GLN:CB	8:G:156:PHE:HB3	2.45	0.47
8:G:146:ASP:OD2	8:G:151:LEU:HD12	2.14	0.47
9:O:25:VAL:HG11	9:O:64:PHE:HE2	1.79	0.47
9:O:132:MET:CE	9:O:134:GLU:HB2	2.45	0.47
9:O:195:LYS:CE	9:O:197:LYS:HB2	2.44	0.47
9:O:385:CYS:HA	9:O:427:ASP:CG	2.40	0.47
9:O:651:PHE:HB3	9:O:652:LYS:H	1.52	0.47
10:B:334:HIS:CA	10:B:338:MET:HB2	2.44	0.47
1:A:77:VAL:N	1:A:106:HIS:O	2.47	0.47
1:A:221:TYR:HA	1:A:224:ALA:HB3	1.96	0.47
2:D:238:ALA:HA	2:D:242:ARG:HH11	1.80	0.47
6:R:22:PHE:N	9:O:577:VAL:HG21	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:23:SER:N	8:G:26:ALA:HB3	2.30	0.47
8:G:166:ASP:HB2	8:G:170:ILE:HD11	1.96	0.47
9:O:72:LEU:HD22	9:O:90:TYR:CE1	2.49	0.47
9:O:101:MET:HB3	9:O:139:ILE:HD13	1.97	0.47
9:O:166:GLU:HB3	9:O:253:TYR:CE1	2.48	0.47
9:O:312:ILE:HA	9:O:367:ALA:HB2	1.97	0.47
9:O:331:THR:HB	9:O:339:PHE:CD2	2.50	0.47
9:O:401:LYS:CE	9:O:449:MET:HG3	2.45	0.47
9:O:407:THR:HG21	10:B:100:ARG:NH1	2.13	0.47
9:O:443:LEU:HD11	9:O:480:MET:SD	2.55	0.47
9:O:606:ASN:HB3	9:O:608:LYS:NZ	2.30	0.47
9:O:699:LEU:HD12	9:O:699:LEU:N	2.29	0.47
10:B:84:ASN:CG	10:B:85:PHE:H	2.22	0.47
10:B:251:PHE:CZ	10:B:286:LEU:HD13	2.49	0.47
1:A:208:TYR:O	1:A:213:ASP:N	2.46	0.47
1:A:218:LEU:O	1:A:222:SER:HB2	2.13	0.47
3:H:55:TYR:CD2	7:C:155:PHE:CZ	3.00	0.47
3:H:62:PRO:HA	3:H:65:LYS:HB2	1.95	0.47
6:R:24:VAL:CG2	9:O:562:GLY:HA3	2.39	0.47
6:R:33:TRP:CD1	6:R:34:ALA:O	2.67	0.47
8:G:42:VAL:HA	8:G:67:LEU:CD1	2.45	0.47
9:O:234:GLN:O	9:O:237:GLU:HB2	2.14	0.47
9:O:394:TYR:HA	9:O:397:ASN:ND2	2.28	0.47
9:O:663:GLN:HG3	9:O:666:GLU:OE1	2.15	0.47
10:B:338:MET:CE	10:B:343:ILE:HG22	2.44	0.47
1:A:490:MET:HE1	7:C:389:ARG:CB	2.45	0.47
3:H:52:ASN:ND2	7:C:195:LEU:HD23	2.24	0.47
3:H:208:GLU:HG2	10:B:422:THR:CA	2.44	0.47
8:G:42:VAL:CG2	8:G:163:ARG:H	2.26	0.47
8:G:64:LEU:HD12	8:G:67:LEU:HD23	1.96	0.47
9:O:156:GLN:HB3	9:O:206:ILE:HD13	1.97	0.47
9:O:227:LEU:CD1	9:O:235:TYR:HB3	2.44	0.47
9:O:296:ASN:O	9:O:300:LEU:HD13	2.15	0.47
9:O:510:TYR:CE2	9:O:559:LEU:HD21	2.48	0.47
9:O:624:ASN:O	9:O:638:PHE:HB3	2.15	0.47
10:B:8:PHE:CE2	10:B:43:LYS:HB3	2.50	0.47
10:B:66:GLU:CD	10:B:103:VAL:HG13	2.40	0.47
10:B:157:LYS:HE2	10:B:200:LEU:HD21	1.97	0.47
1:A:262:GLU:HA	1:A:285:LEU:HD13	1.96	0.47
6:R:23:GLU:OE2	9:O:564:VAL:HB	2.14	0.47
9:O:109:ASN:C	9:O:113:ILE:HG13	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:O:531:GLN:HE21	9:O:531:GLN:HB2	1.45	0.47
10:B:18:LEU:HD12	10:B:67:TRP:H	1.79	0.47
10:B:136:LEU:O	10:B:139:LEU:HB2	2.14	0.47
10:B:251:PHE:CE1	10:B:286:LEU:HD12	2.49	0.47
1:A:188:TYR:HA	1:A:191:ASN:HB2	1.97	0.46
2:D:254:ARG:O	2:D:257:GLN:HB2	2.15	0.46
2:D:325:GLY:HA2	2:D:330:ILE:HG13	1.97	0.46
6:R:23:GLU:CG	9:O:564:VAL:CG1	2.65	0.46
6:R:33:TRP:HE1	9:O:514:ALA:C	2.21	0.46
9:O:26:MET:SD	9:O:90:TYR:HD1	2.38	0.46
9:O:185:ILE:HD13	9:O:188:PHE:HE2	1.80	0.46
9:O:319:ILE:HG12	9:O:350:PHE:CG	2.50	0.46
10:B:195:LEU:CD2	10:B:224:ILE:HG23	2.44	0.46
10:B:294:PHE:HD1	10:B:299:ALA:HB1	1.80	0.46
10:B:347:ILE:HG23	10:B:348:GLU:N	2.30	0.46
4:P:2:ASP:HB2	5:Q:82:ARG:HE	1.80	0.46
8:G:14:GLN:O	8:G:18:LEU:HG	2.15	0.46
8:G:128:LEU:HG	8:G:132:ILE:HD11	1.97	0.46
9:O:175:ASP:HB3	9:O:181:ILE:HD13	1.98	0.46
9:O:604:GLN:HE21	9:O:604:GLN:HB3	1.34	0.46
10:B:59:GLU:O	10:B:60:LEU:HB2	2.15	0.46
10:B:93:LYS:HA	10:B:96:LEU:HD12	1.97	0.46
10:B:185:GLU:O	10:B:185:GLU:HG2	2.15	0.46
10:B:215:LYS:HZ1	10:B:244:MET:HE3	1.78	0.46
2:D:317:ASN:HA	2:D:361:PHE:HB2	1.97	0.46
2:D:373:GLN:HA	2:D:376:SER:HB3	1.98	0.46
4:P:25:PHE:N	4:P:53:ASP:O	2.48	0.46
6:R:19:LYS:CD	9:O:569:LEU:HD11	2.39	0.46
8:G:7:PRO:HB3	8:G:38:PRO:CD	2.44	0.46
8:G:12:LEU:O	8:G:16:ILE:HG13	2.15	0.46
8:G:96:LEU:HA	8:G:99:LEU:CD1	2.44	0.46
9:O:494:ILE:HD12	9:O:501:ILE:HG21	1.97	0.46
10:B:25:ASN:CB	10:B:28:PRO:HG2	2.41	0.46
10:B:291:ILE:C	10:B:293:PRO:HD3	2.41	0.46
1:A:188:TYR:O	1:A:192:SER:N	2.42	0.46
8:G:96:LEU:HG	8:G:99:LEU:HD11	1.96	0.46
8:G:166:ASP:HB2	8:G:170:ILE:CD1	2.46	0.46
9:O:101:MET:O	9:O:105:TYR:HB2	2.15	0.46
9:O:155:LEU:HD11	9:O:187:SER:HB3	0.50	0.46
9:O:156:GLN:CB	9:O:206:ILE:HD13	2.33	0.46
9:O:209:SER:HB2	9:O:210:PRO:CD	2.38	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:O:220:LYS:HD3	9:O:269:ARG:HB3	1.97	0.46
9:O:394:TYR:CE2	9:O:398:LEU:HD11	2.51	0.46
10:B:48:LYS:H	10:B:48:LYS:CD	2.29	0.46
1:A:339:ARG:NH2	1:A:370:TYR:O	2.40	0.46
2:D:12:LEU:HD13	2:D:29:ILE:HG21	1.98	0.46
2:D:18:SER:CB	9:O:591:SER:OG	2.63	0.46
8:G:71:ALA:CB	8:G:164:LYS:HZ2	2.26	0.46
9:O:408:GLU:CB	10:B:105:ARG:NH2	2.78	0.46
9:O:511:VAL:CG2	9:O:548:PHE:CE2	2.98	0.46
9:O:620:VAL:CG1	9:O:622:MET:HB2	2.46	0.46
10:B:72:LEU:HD22	10:B:91:ARG:CD	2.41	0.46
10:B:246:LEU:HB3	10:B:342:PHE:CZ	2.50	0.46
10:B:351:LEU:O	10:B:355:ARG:HG3	2.15	0.46
7:C:71:VAL:HB	7:C:72:PRO:HD2	1.98	0.46
8:G:41:TYR:HB3	8:G:70:PHE:CB	2.44	0.46
8:G:56:ALA:C	8:G:57:GLU:HG3	2.41	0.46
9:O:84:LEU:C	9:O:180:VAL:CG1	2.64	0.46
9:O:511:VAL:CG2	9:O:548:PHE:HE2	2.28	0.46
10:B:38:ASN:ND2	10:B:67:TRP:CZ3	2.84	0.46
10:B:51:LEU:HA	10:B:54:PHE:CE2	2.49	0.46
10:B:55:GLN:O	10:B:58:LEU:HB3	2.15	0.46
10:B:193:GLN:HE22	10:B:197:ILE:H	1.63	0.46
10:B:215:LYS:CE	10:B:244:MET:HG3	2.46	0.46
10:B:320:ASN:ND2	10:B:322:ASP:H	2.13	0.46
1:A:278:THR:HG23	1:A:312:ASP:HB3	1.96	0.46
1:A:453:VAL:HG22	1:A:460:LEU:HA	1.97	0.46
2:D:161:PRO:O	2:D:165:GLU:CB	2.61	0.46
2:D:217:VAL:HB	2:D:222:ARG:HD3	1.96	0.46
3:H:25:LEU:CB	7:C:119:ARG:N	2.76	0.46
6:R:45:CYS:SG	6:R:80:HIS:ND1	2.71	0.46
8:G:76:PRO:HD3	8:G:100:THR:HG21	1.98	0.46
9:O:596:TYR:HA	9:O:599:LEU:HB3	1.96	0.46
10:B:46:ASP:O	10:B:50:ALA:HB2	2.16	0.46
10:B:340:ASP:HB3	10:B:343:ILE:HD12	1.97	0.46
5:Q:61:ASN:HB2	9:O:42:ILE:HG22	1.97	0.46
8:G:110:CYS:HB2	8:G:151:LEU:CD1	2.42	0.46
8:G:193:SER:O	8:G:197:GLN:HB3	2.16	0.46
9:O:33:ALA:O	9:O:36:ASN:HB2	2.15	0.46
9:O:227:LEU:CD2	9:O:274:HIS:CD2	2.98	0.46
9:O:309:PRO:O	9:O:312:ILE:HB	2.15	0.46
9:O:311:MET:HB3	9:O:315:LEU:HD23	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:O:408:GLU:HB2	10:B:105:ARG:HH22	1.79	0.46
9:O:480:MET:HG3	9:O:510:TYR:CE1	2.50	0.46
10:B:243:LYS:HD3	10:B:246:LEU:HD12	1.96	0.46
2:D:365:GLU:OE2	8:G:153:GLU:CD	2.52	0.46
5:Q:59:GLU:O	5:Q:61:ASN:ND2	2.49	0.46
7:C:39:LEU:HD22	7:C:58:VAL:HG22	1.98	0.46
8:G:42:VAL:CB	8:G:163:ARG:H	2.29	0.46
8:G:92:GLN:HG2	8:G:95:LYS:HZ3	1.80	0.46
8:G:161:ASP:H	8:G:163:ARG:HH22	1.62	0.46
9:O:357:VAL:HG22	9:O:357:VAL:O	2.16	0.46
9:O:529:ILE:N	9:O:530:PRO:HD3	2.31	0.46
9:O:577:VAL:CG2	9:O:578:THR:H	2.18	0.46
10:B:54:PHE:O	10:B:57:VAL:HB	2.16	0.46
10:B:63:GLU:HB2	10:B:104:THR:HG22	1.98	0.46
1:A:501:HIS:HB2	7:C:212:PRO:HG2	1.98	0.46
2:D:120:TRP:CE3	2:D:154:LEU:HD23	2.51	0.46
3:H:26:GLU:HG2	7:C:123:ILE:HD12	1.98	0.46
3:H:46:LEU:HD23	3:H:109:LEU:HD13	1.97	0.46
6:R:22:PHE:CG	9:O:581:GLN:HG3	2.34	0.46
9:O:235:TYR:HE1	9:O:238:LYS:HD2	1.72	0.46
9:O:243:LEU:HB3	9:O:263:ILE:HD12	1.98	0.46
10:B:18:LEU:HB2	10:B:65:GLY:C	2.40	0.46
10:B:148:TRP:CD1	10:B:148:TRP:C	2.94	0.46
3:H:50:MET:HG3	3:H:82:TRP:HB2	1.98	0.45
3:H:55:TYR:CD1	7:C:153:LYS:CE	2.88	0.45
4:P:98:GLU:HA	5:Q:98:GLU:HB3	1.99	0.45
5:Q:64:GLU:CD	9:O:49:TYR:H	2.24	0.45
6:R:23:GLU:OE1	9:O:566:MET:HE3	2.14	0.45
6:R:29:ALA:HB3	9:O:558:TYR:OH	2.16	0.45
8:G:111:ILE:HG21	8:G:116:LEU:CD2	2.47	0.45
8:G:183:VAL:HA	8:G:186:SER:OG	2.16	0.45
9:O:159:LEU:O	9:O:163:LEU:HG	2.16	0.45
9:O:339:PHE:CB	9:O:390:LEU:CD1	2.94	0.45
9:O:599:LEU:HD13	9:O:599:LEU:O	2.16	0.45
10:B:21:SER:CB	10:B:64:LYS:CA	2.94	0.45
10:B:212:LYS:O	10:B:215:LYS:HB2	2.16	0.45
3:H:151:GLN:HE21	3:H:167:PRO:HG3	1.82	0.45
8:G:56:ALA:O	8:G:57:GLU:HG3	2.16	0.45
8:G:146:ASP:CG	8:G:151:LEU:HB2	2.41	0.45
9:O:249:ARG:HG3	9:O:252:LYS:HD2	1.98	0.45
9:O:314:GLU:OE1	9:O:314:GLU:HA	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:O:335:MET:HB3	9:O:338:LEU:CG	2.43	0.45
9:O:376:VAL:HG21	9:O:425:ILE:HG12	1.99	0.45
10:B:42:LEU:HD13	10:B:74:GLN:CG	2.47	0.45
10:B:75:MET:HE2	10:B:87:GLU:HG2	1.98	0.45
10:B:320:ASN:HD22	10:B:320:ASN:C	2.24	0.45
1:A:488:ALA:O	1:A:492:ARG:HB2	2.16	0.45
2:D:89:LEU:O	2:D:93:GLN:NE2	2.49	0.45
3:H:52:ASN:HA	3:H:55:TYR:HD2	1.81	0.45
7:C:370:PRO:O	7:C:373:LEU:HB3	2.16	0.45
9:O:231:ASN:HD22	9:O:234:GLN:CG	2.29	0.45
10:B:165:TYR:CD1	10:B:204:MET:SD	3.10	0.45
10:B:416:ARG:N	10:B:416:ARG:HD2	2.32	0.45
1:A:378:LEU:HD13	1:A:406:ARG:HG3	1.98	0.45
2:D:365:GLU:OE1	8:G:153:GLU:OE1	2.35	0.45
2:D:371:ASP:HA	2:D:374:ILE:HD12	1.98	0.45
2:D:394:GLU:OE1	8:G:46:LEU:HB2	2.16	0.45
7:C:117:PRO:HB2	7:C:148:LEU:HD22	1.98	0.45
8:G:116:LEU:HD13	8:G:119:ASP:OD1	2.17	0.45
8:G:144:LYS:H	8:G:153:GLU:CB	2.24	0.45
9:O:163:LEU:CD2	9:O:181:ILE:CA	2.94	0.45
9:O:169:ASN:HD21	9:O:176:PRO:HD3	1.81	0.45
9:O:244:LYS:O	9:O:247:GLU:HB3	2.17	0.45
9:O:408:GLU:CB	10:B:105:ARG:NH1	2.79	0.45
9:O:555:TRP:HE1	9:O:557:HIS:CD2	2.34	0.45
9:O:614:ILE:HG23	9:O:615:LYS:N	2.32	0.45
10:B:37:TYR:O	10:B:53:SER:HB3	2.16	0.45
2:D:393:PRO:CD	8:G:43:PHE:HD1	2.30	0.45
3:H:153:TRP:HA	3:H:165:ARG:HB3	1.98	0.45
9:O:429:ASP:HB3	9:O:679:TYR:CD1	2.52	0.45
9:O:468:GLU:OE1	9:O:468:GLU:HA	2.16	0.45
9:O:651:PHE:HA	9:O:653:ILE:HG23	1.99	0.45
10:B:11:ASP:CB	10:B:42:LEU:CD2	2.94	0.45
10:B:189:LYS:HB3	10:B:193:GLN:HA	1.97	0.45
10:B:237:ILE:HG13	10:B:238:ARG:N	2.31	0.45
4:P:50:LEU:O	4:P:55:LYS:NZ	2.36	0.45
8:G:6:LYS:HB2	8:G:7:PRO:HD2	1.99	0.45
8:G:184:VAL:O	8:G:188:ILE:HG13	2.17	0.45
9:O:65:LEU:O	9:O:69:VAL:HG23	2.16	0.45
9:O:73:HIS:CA	9:O:150:LEU:CD1	2.95	0.45
9:O:87:TYR:HA	9:O:90:TYR:CD2	2.41	0.45
9:O:163:LEU:O	9:O:167:ILE:HG12	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:B:38:ASN:ND2	10:B:67:TRP:CE3	2.85	0.45
10:B:431:LEU:O	10:B:434:LEU:HB3	2.17	0.45
1:A:454:ASP:N	7:C:315:LEU:HD22	2.32	0.45
2:D:60:VAL:CG1	9:O:604:GLN:OE1	2.48	0.45
8:G:75:TYR:HB3	8:G:76:PRO:HD3	1.98	0.45
8:G:92:GLN:HG2	8:G:95:LYS:HD3	1.99	0.45
9:O:84:LEU:C	9:O:180:VAL:CG2	2.81	0.45
9:O:153:GLU:CB	9:O:154:PRO:HD3	2.30	0.45
9:O:276:GLN:HA	9:O:279:HIS:HE1	1.82	0.45
9:O:538:GLN:HA	9:O:541:GLU:HG2	1.99	0.45
10:B:76:ILE:CD1	10:B:115:ILE:CG2	2.94	0.45
10:B:294:PHE:C	10:B:299:ALA:HB3	2.42	0.45
10:B:338:MET:HE1	10:B:343:ILE:HG22	1.97	0.45
2:D:393:PRO:HD2	8:G:43:PHE:HD1	1.81	0.45
5:Q:66:PRO:HD2	9:O:1:MET:N	2.31	0.45
8:G:11:LEU:HA	8:G:14:GLN:HB3	1.99	0.45
9:O:84:LEU:HD11	9:O:162:MET:HG3	1.99	0.45
9:O:225:ASN:O	9:O:228:GLN:HG2	2.17	0.45
9:O:511:VAL:CG1	9:O:513:GLN:CG	2.95	0.45
9:O:563:GLU:HG3	9:O:574:VAL:CG1	2.43	0.45
3:H:120:LEU:CD2	7:C:343:GLU:OE2	2.65	0.45
5:Q:89:GLU:HG2	5:Q:91:PRO:HD3	1.98	0.45
6:R:49:ILE:HD12	6:R:68:CYS:H	1.81	0.45
9:O:7:VAL:HG23	9:O:8:VAL:N	2.31	0.45
9:O:169:ASN:HB3	9:O:249:ARG:CZ	2.42	0.45
10:B:18:LEU:CG	10:B:65:GLY:HA2	2.37	0.45
10:B:143:LYS:HE3	10:B:143:LYS:CA	2.47	0.45
10:B:148:TRP:HD1	10:B:152:ASN:HB2	1.80	0.45
8:G:31:ILE:HD11	8:G:55:LEU:CG	2.35	0.45
8:G:115:VAL:HG12	8:G:116:LEU:HD22	1.99	0.45
9:O:163:LEU:HD13	9:O:185:ILE:HG12	1.90	0.45
9:O:298:TYR:HE2	9:O:302:ARG:NH2	2.14	0.45
9:O:344:LEU:HD11	9:O:418:PHE:CE1	2.52	0.45
9:O:482:VAL:O	9:O:486:LEU:HG	2.16	0.45
9:O:490:PHE:CD1	9:O:540:PHE:HA	2.52	0.45
9:O:556:LEU:HD12	9:O:558:TYR:CD2	2.51	0.45
10:B:14:GLU:C	10:B:67:TRP:NE1	2.75	0.45
10:B:57:VAL:CG1	10:B:68:GLY:CA	2.95	0.45
2:D:233:THR:HG23	2:D:246:LEU:HD13	1.99	0.44
6:R:72:TRP:HA	6:R:76:ASN:HA	1.98	0.44
9:O:373:THR:HG23	9:O:377:ASN:HD22	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:O:672:VAL:HG13	9:O:673:ASP:N	2.31	0.44
10:B:100:ARG:HH12	10:B:105:ARG:HH12	1.65	0.44
10:B:168:LEU:HA	10:B:171:ILE:HD12	1.99	0.44
10:B:202:ILE:HD13	10:B:217:LEU:HB3	1.99	0.44
2:D:195:LEU:HA	2:D:198:ARG:HB2	1.99	0.44
2:D:380:GLN:HG2	2:D:383:ASN:HD22	1.83	0.44
2:D:383:ASN:ND2	8:G:156:PHE:CE1	2.85	0.44
5:Q:66:PRO:HG3	9:O:3:LEU:HB2	1.89	0.44
8:G:27:LEU:CD2	8:G:60:ASN:HD22	2.29	0.44
8:G:43:PHE:HD2	8:G:67:LEU:HD13	1.82	0.44
9:O:588:PHE:HA	9:O:591:SER:O	2.16	0.44
10:B:167:LYS:O	10:B:171:ILE:HG13	2.17	0.44
10:B:282:LEU:HD13	10:B:343:ILE:HG12	1.99	0.44
1:A:389:LEU:HD12	1:A:395:ALA:HB1	2.00	0.44
1:A:482:PHE:HE2	7:C:383:CYS:HG	1.56	0.44
2:D:323:GLU:OE2	8:G:125:LEU:HD11	2.14	0.44
6:R:22:PHE:CE1	9:O:577:VAL:CG2	2.86	0.44
8:G:42:VAL:HB	8:G:162:ILE:HB	1.99	0.44
8:G:75:TYR:HD1	8:G:96:LEU:HB2	1.82	0.44
9:O:148:ARG:CZ	9:O:192:GLU:O	2.65	0.44
9:O:175:ASP:N	9:O:249:ARG:HH12	2.16	0.44
9:O:494:ILE:HG13	9:O:495:LYS:H	1.80	0.44
10:B:21:SER:CB	10:B:64:LYS:HA	2.46	0.44
10:B:140:LYS:HE2	10:B:140:LYS:HA	2.00	0.44
10:B:193:GLN:HE21	10:B:197:ILE:HG12	1.83	0.44
10:B:294:PHE:CD1	10:B:303:LYS:HB3	2.53	0.44
10:B:408:LEU:HD12	10:B:408:LEU:O	2.17	0.44
1:A:480:LYS:NZ	7:C:379:GLU:CD	2.72	0.44
1:A:495:VAL:CA	7:C:169:ILE:HD12	2.45	0.44
3:H:42:ALA:HB1	3:H:105:ILE:HD11	1.98	0.44
3:H:59:ARG:HH12	7:C:118:LEU:HD12	1.02	0.44
5:Q:58:ASN:N	9:O:39:PHE:HB2	2.32	0.44
8:G:19:ALA:HA	8:G:30:LEU:HD22	2.00	0.44
9:O:218:TYR:CD2	9:O:218:TYR:C	2.96	0.44
9:O:344:LEU:HD11	9:O:418:PHE:HE1	1.83	0.44
9:O:563:GLU:CG	9:O:574:VAL:HG13	2.44	0.44
9:O:565:LYS:CD	10:B:9:MET:O	2.59	0.44
9:O:572:PRO:HG2	10:B:43:LYS:NZ	2.30	0.44
10:B:436:GLN:O	10:B:439:VAL:HG12	2.16	0.44
1:A:411:ILE:HD13	1:A:448:LEU:HD12	1.98	0.44
1:A:431:THR:HG21	1:A:436:LEU:HD13	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:394:GLU:OE1	8:G:46:LEU:CB	2.55	0.44
9:O:227:LEU:HD12	9:O:232:CYS:HA	1.98	0.44
9:O:563:GLU:CG	9:O:574:VAL:CG1	2.95	0.44
10:B:344:ARG:O	10:B:347:ILE:HG22	2.17	0.44
2:D:18:SER:HB3	9:O:591:SER:OG	2.18	0.44
8:G:40:VAL:HG13	8:G:42:VAL:O	2.17	0.44
8:G:49:LEU:HD21	8:G:51:ASN:OD1	2.18	0.44
8:G:71:ALA:CB	8:G:164:LYS:HG3	2.47	0.44
9:O:70:ARG:HH22	9:O:149:LYS:HB2	1.81	0.44
9:O:135:PRO:C	9:O:136:LEU:HD22	2.43	0.44
9:O:170:ASP:HB2	9:O:249:ARG:CG	2.47	0.44
9:O:259:TYR:HA	9:O:262:VAL:HG12	2.00	0.44
9:O:456:ALA:HA	10:B:188:LEU:O	2.18	0.44
9:O:694:LEU:CD1	9:O:699:LEU:CD1	2.95	0.44
10:B:11:ASP:HB3	10:B:67:TRP:HZ3	1.83	0.44
10:B:14:GLU:OE1	10:B:70:LYS:HE3	2.18	0.44
10:B:66:GLU:CD	10:B:69:PHE:HB2	2.42	0.44
8:G:49:LEU:O	8:G:53:GLN:HG3	2.17	0.44
10:B:350:LEU:CD1	10:B:354:ILE:CD1	2.95	0.44
10:B:363:ILE:CG2	10:B:411:LEU:CD2	2.95	0.44
1:A:475:SER:HB3	10:B:426:LYS:CD	2.47	0.44
2:D:243:SER:HA	2:D:246:LEU:HG	2.00	0.44
2:D:391:THR:HA	8:G:40:VAL:HG23	1.81	0.44
6:R:22:PHE:CA	9:O:577:VAL:HG13	2.27	0.44
8:G:76:PRO:HD3	8:G:120:LEU:CD2	2.47	0.44
8:G:122:MET:CE	8:G:127:GLU:HG2	2.47	0.44
8:G:133:ILE:HA	8:G:136:VAL:CG2	2.45	0.44
9:O:72:LEU:HD12	9:O:147:TRP:HZ3	1.82	0.44
9:O:231:ASN:HD22	9:O:234:GLN:HG3	1.82	0.44
9:O:454:GLU:O	9:O:458:ILE:HG13	2.18	0.44
9:O:474:HIS:ND1	10:B:230:HIS:HD2	2.02	0.44
9:O:565:LYS:NZ	10:B:9:MET:O	2.45	0.44
10:B:32:LEU:N	10:B:32:LEU:HD22	2.32	0.44
10:B:140:LYS:N	10:B:140:LYS:CE	2.79	0.44
10:B:350:LEU:HD13	10:B:350:LEU:C	2.43	0.44
1:A:394:LEU:HG	1:A:398:VAL:HB	1.99	0.44
2:D:107:ARG:HB3	2:D:127:LEU:HD23	1.99	0.44
2:D:206:GLN:HG2	2:D:245:MET:HE3	1.99	0.44
4:P:6:MET:HE2	4:P:72:PRO:HD2	1.99	0.44
8:G:10:ASN:O	8:G:14:GLN:CB	2.65	0.44
9:O:163:LEU:HA	9:O:166:GLU:OE1	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:O:166:GLU:HA	9:O:169:ASN:HD22	1.83	0.44
9:O:181:ILE:HD12	9:O:253:TYR:CD1	2.52	0.44
9:O:543:PHE:O	9:O:546:GLN:HB3	2.17	0.44
9:O:721:CYS:SG	9:O:725:LEU:HD13	2.58	0.44
10:B:205:TYR:CB	10:B:214:LEU:CD2	2.95	0.44
10:B:371:ILE:HB	10:B:372:PRO:CD	2.41	0.44
2:D:230:LEU:HD21	2:D:260:ALA:HB3	1.99	0.43
8:G:117:LEU:HD23	8:G:122:MET:HB3	1.98	0.43
8:G:122:MET:HE2	8:G:128:LEU:HA	1.99	0.43
8:G:146:ASP:OD1	8:G:149:ASN:HB2	2.18	0.43
8:G:146:ASP:H	8:G:152:LEU:HA	1.82	0.43
9:O:47:VAL:O	9:O:47:VAL:HG22	2.17	0.43
9:O:84:LEU:HG	9:O:159:LEU:CD1	2.46	0.43
9:O:148:ARG:HB3	9:O:151:MET:HE2	1.99	0.43
9:O:161:ARG:HH12	9:O:206:ILE:HG22	1.83	0.43
9:O:380:GLU:HB2	9:O:381:PRO:CD	2.48	0.43
9:O:478:THR:O	9:O:482:VAL:HG12	2.18	0.43
10:B:18:LEU:HD21	10:B:35:GLN:HE22	1.81	0.43
10:B:153:THR:HG23	10:B:200:LEU:HD11	2.00	0.43
1:A:181:LEU:HA	1:A:184:ASP:HB2	2.00	0.43
1:A:284:LYS:HA	1:A:284:LYS:HD3	1.82	0.43
3:H:148:ILE:HB	3:H:153:TRP:HB2	2.00	0.43
8:G:18:LEU:HB3	8:G:30:LEU:HD13	2.00	0.43
8:G:63:TYR:HA	8:G:86:PRO:HG2	2.00	0.43
8:G:92:GLN:HA	8:G:95:LYS:HB2	1.99	0.43
8:G:178:CYS:O	8:G:182:GLU:HG3	2.18	0.43
9:O:374:SER:O	9:O:378:TYR:HB2	2.17	0.43
9:O:578:THR:CG2	9:O:579:THR:N	2.80	0.43
9:O:688:MET:HE3	9:O:722:ILE:CD1	2.48	0.43
10:B:77:LYS:CE	10:B:118:TYR:CE1	2.95	0.43
1:A:422:MET:O	1:A:426:ALA:N	2.43	0.43
1:A:441:THR:OG1	7:C:313:THR:HB	2.18	0.43
5:Q:68:HIS:HE1	9:O:1:MET:CB	2.08	0.43
6:R:24:VAL:HG13	9:O:562:GLY:CA	2.48	0.43
8:G:12:LEU:HG	8:G:13:GLU:N	2.33	0.43
8:G:22:THR:CB	8:G:26:ALA:HB1	2.41	0.43
8:G:42:VAL:HA	8:G:67:LEU:HD11	1.99	0.43
8:G:185:LEU:O	8:G:188:ILE:HB	2.18	0.43
9:O:474:HIS:HE1	10:B:230:HIS:HD2	1.47	0.43
9:O:544:TYR:CZ	9:O:548:PHE:HD2	2.36	0.43
10:B:15:ASP:HB3	10:B:67:TRP:CE3	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:61:ILE:HD11	9:O:598:GLU:CD	2.43	0.43
2:D:107:ARG:NH1	2:D:129:GLY:O	2.51	0.43
8:G:71:ALA:CB	8:G:164:LYS:H	2.28	0.43
9:O:669:ARG:HA	9:O:672:VAL:CG1	2.46	0.43
10:B:152:ASN:HD21	10:B:171:ILE:HG23	1.82	0.43
7:C:94:ARG:HH22	7:C:137:GLN:HE22	1.66	0.43
8:G:60:ASN:HB3	8:G:63:TYR:HB3	1.99	0.43
9:O:40:SER:O	9:O:43:TYR:HB3	2.18	0.43
9:O:281:GLU:O	9:O:285:ILE:HG13	2.18	0.43
9:O:396:ASP:O	9:O:400:LYS:HG2	2.19	0.43
9:O:453:SER:CA	10:B:188:LEU:HD13	2.28	0.43
10:B:401:ARG:O	10:B:409:LEU:HD12	2.18	0.43
1:A:266:GLU:O	1:A:269:GLU:N	2.51	0.43
3:H:49:ASP:O	3:H:53:ALA:N	2.47	0.43
6:R:56:CYS:HA	6:R:59:ASN:HB3	2.01	0.43
8:G:27:LEU:CD2	8:G:55:LEU:HA	2.48	0.43
8:G:56:ALA:HA	8:G:64:LEU:HB2	2.00	0.43
9:O:219:TYR:O	9:O:223:ALA:HB3	2.18	0.43
10:B:11:ASP:O	10:B:67:TRP:CZ3	2.72	0.43
10:B:66:GLU:CG	10:B:69:PHE:HB2	2.49	0.43
10:B:361:LYS:HB2	10:B:361:LYS:NZ	2.33	0.43
1:A:396:PRO:HG2	1:A:397:HIS:CD2	2.54	0.43
3:H:59:ARG:CD	7:C:152:ALA:HB1	2.48	0.43
3:H:74:ILE:HG21	3:H:102:VAL:HG11	2.01	0.43
9:O:200:LEU:HD22	9:O:255:HIS:CE1	2.54	0.43
9:O:339:PHE:CG	9:O:390:LEU:HD12	2.54	0.43
9:O:443:LEU:CD2	9:O:476:MET:SD	3.07	0.43
9:O:735:GLN:HA	9:O:735:GLN:NE2	2.34	0.43
10:B:15:ASP:CA	10:B:67:TRP:CD2	3.01	0.43
10:B:34:ASN:HD21	10:B:59:GLU:HB2	1.83	0.43
10:B:92:TYR:O	10:B:96:LEU:HG	2.18	0.43
10:B:205:TYR:C	10:B:214:LEU:HD21	2.44	0.43
10:B:343:ILE:O	10:B:347:ILE:HB	2.18	0.43
10:B:371:ILE:CB	10:B:372:PRO:HD3	2.38	0.43
10:B:380:ILE:HG12	10:B:384:ASP:HB2	1.99	0.43
1:A:422:MET:HE1	1:A:437:GLU:HB2	2.00	0.43
1:A:492:ARG:NH2	7:C:210:THR:HB	2.33	0.43
2:D:9:LEU:HD23	2:D:12:LEU:HD12	2.00	0.43
2:D:392:ALA:HB2	8:G:162:ILE:CB	2.38	0.43
3:H:34:PRO:HG3	3:H:64:ILE:HG12	2.01	0.43
5:Q:106:ALA:O	5:Q:111:ASP:N	2.41	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:22:THR:HB	8:G:26:ALA:CB	2.44	0.43
9:O:160:ILE:O	9:O:164:LEU:HG	2.19	0.43
9:O:339:PHE:HB2	9:O:390:LEU:HD12	2.00	0.43
9:O:373:THR:CG2	9:O:377:ASN:HD22	2.32	0.43
9:O:511:VAL:HG13	9:O:513:GLN:CG	2.45	0.43
10:B:1:MET:HG2	10:B:2:SER:H	1.84	0.43
10:B:145:ASP:CG	10:B:146:ARG:H	2.26	0.43
10:B:210:ASN:O	10:B:214:LEU:HG	2.19	0.43
10:B:251:PHE:CZ	10:B:286:LEU:CD1	3.02	0.43
10:B:314:LEU:HA	10:B:329:ILE:HD11	2.01	0.43
1:A:283:THR:HA	1:A:286:LYS:HD3	1.99	0.43
1:A:299:TYR:HH	1:A:397:HIS:CE1	2.35	0.43
2:D:26:TYR:HD1	2:D:30:LEU:HD22	1.83	0.43
5:Q:69:VAL:CB	9:O:1:MET:SD	3.07	0.43
8:G:97:LYS:O	8:G:100:THR:HG22	2.18	0.43
9:O:170:ASP:N	9:O:249:ARG:HD3	2.14	0.43
9:O:390:LEU:HD23	9:O:390:LEU:HA	1.82	0.43
9:O:614:ILE:CG2	9:O:615:LYS:N	2.82	0.43
10:B:146:ARG:O	10:B:149:PHE:HB3	2.18	0.43
10:B:210:ASN:ND2	10:B:213:LYS:HB2	2.34	0.43
1:A:177:LYS:HG2	1:A:180:LYS:HD2	1.99	0.43
3:H:25:LEU:HD11	7:C:118:LEU:CD1	2.49	0.43
4:P:44:LEU:HD23	4:P:80:ARG:HH22	1.84	0.43
8:G:126:ARG:HD3	8:G:126:ARG:H	1.84	0.43
9:O:80:GLU:CG	9:O:81:GLU:N	2.82	0.43
1:A:352:PHE:HA	1:A:355:PHE:HD2	1.84	0.42
1:A:452:ARG:HB3	7:C:315:LEU:HD12	1.86	0.42
1:A:492:ARG:CZ	7:C:210:THR:HB	2.49	0.42
8:G:11:LEU:HG	8:G:12:LEU:N	2.35	0.42
8:G:12:LEU:HG	8:G:13:GLU:H	1.82	0.42
8:G:175:GLN:O	8:G:179:VAL:HG23	2.18	0.42
9:O:156:GLN:HG2	9:O:206:ILE:HD12	1.40	0.42
9:O:175:ASP:OD2	9:O:252:LYS:CB	2.67	0.42
9:O:294:MET:CG	9:O:358:LEU:HD21	2.48	0.42
10:B:11:ASP:OD2	10:B:74:GLN:HG2	2.19	0.42
10:B:58:LEU:O	10:B:58:LEU:HG	2.19	0.42
1:A:273:GLU:HB2	1:A:277:GLN:HB2	2.01	0.42
1:A:331:LEU:HD23	1:A:331:LEU:HA	1.89	0.42
1:A:350:SER:HA	1:A:353:LYS:HB2	2.00	0.42
2:D:331:PRO:O	2:D:335:ALA:N	2.50	0.42
4:P:28:LYS:HA	4:P:31:VAL:HB	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:129:GLU:CA	8:G:132:ILE:HD12	2.47	0.42
9:O:236:MET:HE3	9:O:300:LEU:HD23	2.00	0.42
9:O:243:LEU:O	9:O:246:GLU:HB3	2.20	0.42
9:O:322:GLU:HG3	9:O:326:ALA:CB	2.49	0.42
9:O:388:PRO:HG2	9:O:427:ASP:OD2	2.19	0.42
10:B:294:PHE:CA	10:B:299:ALA:HB3	2.49	0.42
1:A:91:TYR:O	1:A:96:ARG:NH2	2.52	0.42
2:D:233:THR:HG21	2:D:264:LEU:HD13	2.01	0.42
3:H:51:ASN:CB	7:C:194:GLY:O	2.67	0.42
3:H:59:ARG:HD3	7:C:152:ALA:CB	2.48	0.42
8:G:15:PHE:CZ	8:G:34:VAL:HA	2.54	0.42
8:G:146:ASP:OD2	8:G:151:LEU:HB2	2.20	0.42
9:O:161:ARG:O	9:O:164:LEU:HB2	2.19	0.42
9:O:428:LYS:HD2	9:O:469:PHE:CE1	2.52	0.42
10:B:42:LEU:HD13	10:B:74:GLN:HG3	2.00	0.42
10:B:405:VAL:CG1	10:B:406:ASN:N	2.82	0.42
10:B:439:VAL:CG1	10:B:440:SER:N	2.82	0.42
2:D:387:LYS:HE2	8:G:159:GLY:C	2.45	0.42
2:D:388:ILE:O	2:D:396:THR:HA	2.19	0.42
6:R:35:TRP:HD1	6:R:37:ILE:H	1.65	0.42
8:G:45:GLU:O	8:G:48:GLU:HB3	2.20	0.42
8:G:165:LYS:CD	8:G:167:LEU:HD13	2.49	0.42
9:O:175:ASP:CG	9:O:252:LYS:HD3	2.44	0.42
9:O:340:VAL:CG1	9:O:341:GLU:N	2.82	0.42
9:O:370:LYS:HA	9:O:370:LYS:HD2	1.84	0.42
9:O:708:ARG:CZ	9:O:713:PRO:HG3	2.49	0.42
10:B:146:ARG:HH21	10:B:192:THR:CG2	2.32	0.42
10:B:162:ARG:O	10:B:163:GLU:HB2	2.19	0.42
10:B:211:ASN:ND2	10:B:247:ARG:HE	2.09	0.42
1:A:249:GLN:HE21	1:A:291:LEU:HD21	1.84	0.42
1:A:418:VAL:H	10:B:402:ILE:C	2.28	0.42
1:A:444:ILE:HD13	7:C:312:LYS:O	2.19	0.42
3:H:28:PRO:O	3:H:30:GLY:N	2.53	0.42
8:G:5:GLN:CD	8:G:158:ILE:HD12	2.45	0.42
8:G:69:LEU:O	8:G:73:GLY:N	2.53	0.42
9:O:8:VAL:HG23	9:O:9:ASP:H	1.85	0.42
9:O:263:ILE:HG22	9:O:267:GLN:HE21	1.85	0.42
10:B:29:ASN:HA	10:B:32:LEU:CD2	2.49	0.42
10:B:388:LEU:CD1	10:B:392:CYS:SG	3.08	0.42
1:A:251:TRP:HZ3	1:A:258:VAL:HG21	1.84	0.42
1:A:384:MET:HE1	1:A:387:ASN:HD22	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:478:MET:CE	10:B:426:LYS:HG3	2.49	0.42
5:Q:66:PRO:CB	9:O:1:MET:HB2	2.49	0.42
6:R:33:TRP:CZ3	6:R:34:ALA:CA	2.90	0.42
9:O:62:LYS:HE3	9:O:142:LEU:HD11	2.02	0.42
9:O:380:GLU:HB2	9:O:381:PRO:HD3	2.02	0.42
10:B:1:MET:CG	10:B:2:SER:H	2.31	0.42
2:D:342:MET:O	2:D:346:GLY:N	2.52	0.42
3:H:55:TYR:O	7:C:153:LYS:CB	2.51	0.42
9:O:159:LEU:HD23	9:O:184:VAL:O	2.14	0.42
9:O:259:TYR:CE2	9:O:260:THR:HG22	2.54	0.42
9:O:410:GLU:O	9:O:413:ASP:HB2	2.20	0.42
9:O:449:MET:O	10:B:106:ASN:CG	2.63	0.42
9:O:663:GLN:O	9:O:667:GLN:HG2	2.19	0.42
10:B:136:LEU:O	10:B:148:TRP:CZ3	2.73	0.42
10:B:300:LYS:HB2	10:B:301:PRO:HD3	2.01	0.42
1:A:490:MET:CE	7:C:389:ARG:HB2	2.49	0.42
8:G:62:ALA:C	8:G:86:PRO:HD3	2.44	0.42
8:G:146:ASP:CB	8:G:151:LEU:HB2	2.49	0.42
8:G:203:LEU:HA	8:G:203:LEU:HD23	1.83	0.42
8:G:206:LYS:O	8:G:210:GLU:HG3	2.19	0.42
9:O:178:GLN:HG2	9:O:252:LYS:HB3	2.01	0.42
9:O:182:HIS:CD2	9:O:186:ASN:HD21	2.37	0.42
9:O:408:GLU:N	10:B:105:ARG:NH1	2.62	0.42
9:O:432:GLN:NE2	9:O:461:LEU:HD13	2.34	0.42
9:O:478:THR:HG23	9:O:479:ASP:N	2.33	0.42
10:B:5:GLU:CG	10:B:6:ASP:N	2.82	0.42
10:B:237:ILE:HG13	10:B:238:ARG:HE	1.84	0.42
1:A:494:ALA:CA	7:C:168:ASP:H	2.23	0.42
5:Q:66:PRO:CG	9:O:2:SER:N	2.82	0.42
6:R:23:GLU:CD	9:O:564:VAL:CG1	2.91	0.42
8:G:92:GLN:O	8:G:95:LYS:HB2	2.20	0.42
8:G:102:VAL:CG1	8:G:140:ILE:HD13	2.47	0.42
9:O:62:LYS:CD	9:O:142:LEU:HD11	2.50	0.42
9:O:175:ASP:HB3	9:O:181:ILE:HD11	2.01	0.42
9:O:192:GLU:HA	9:O:202:PHE:CD2	2.52	0.42
9:O:356:THR:HG23	9:O:357:VAL:N	2.35	0.42
9:O:490:PHE:HZ	9:O:539:MET:CG	2.32	0.42
10:B:21:SER:HB2	10:B:64:LYS:HA	2.00	0.42
10:B:93:LYS:O	10:B:96:LEU:HB2	2.20	0.42
10:B:236:VAL:HA	10:B:265:TYR:OH	2.20	0.42
10:B:326:PHE:O	10:B:329:ILE:HG12	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:341:GLU:HA	1:A:344:ARG:HB3	2.02	0.42
1:A:452:ARG:CB	7:C:315:LEU:CD1	2.64	0.42
2:D:392:ALA:CB	8:G:162:ILE:HB	2.47	0.42
8:G:106:SER:OG	8:G:107:ARG:NH2	2.52	0.42
9:O:84:LEU:HB2	9:O:180:VAL:CG2	2.46	0.42
9:O:509:ILE:HG12	9:O:510:TYR:N	2.35	0.42
2:D:85:TYR:HE2	2:D:113:ILE:HD12	1.85	0.41
6:R:35:TRP:CE3	9:O:514:ALA:C	2.97	0.41
8:G:23:SER:C	8:G:27:LEU:H	2.28	0.41
8:G:31:ILE:HG23	8:G:63:TYR:CZ	2.55	0.41
8:G:144:LYS:N	8:G:153:GLU:HB2	2.26	0.41
8:G:163:ARG:CZ	8:G:163:ARG:HB2	2.49	0.41
8:G:180:GLY:O	8:G:183:VAL:HG22	2.20	0.41
9:O:51:GLU:HB2	9:O:52:PRO:CD	2.49	0.41
9:O:84:LEU:HD23	9:O:184:VAL:HG13	2.01	0.41
9:O:268:GLN:O	9:O:271:VAL:HG22	2.20	0.41
9:O:665:MET:HA	9:O:668:THR:HB	2.02	0.41
9:O:703:VAL:O	9:O:703:VAL:HG12	2.19	0.41
10:B:24:SER:C	10:B:26:SER:H	2.28	0.41
10:B:67:TRP:CD1	10:B:67:TRP:N	2.84	0.41
10:B:85:PHE:CD2	10:B:88:MET:SD	3.13	0.41
10:B:320:ASN:HD22	10:B:322:ASP:H	1.67	0.41
10:B:355:ARG:CA	10:B:358:VAL:HG22	2.49	0.41
1:A:255:LEU:HA	1:A:258:VAL:HB	2.02	0.41
6:R:23:GLU:OE2	9:O:566:MET:CE	2.55	0.41
7:C:275:LEU:HD22	7:C:302:LEU:HD22	2.01	0.41
8:G:4:GLU:O	8:G:6:LYS:HD2	2.20	0.41
8:G:36:GLU:HA	8:G:95:LYS:HZ1	1.85	0.41
8:G:117:LEU:CD2	8:G:128:LEU:HD22	2.45	0.41
9:O:10:PHE:CD2	9:O:56:ARG:NH2	2.88	0.41
9:O:72:LEU:HD22	9:O:90:TYR:CD1	2.55	0.41
9:O:72:LEU:O	9:O:75:ARG:HB2	2.19	0.41
9:O:163:LEU:HD23	9:O:166:GLU:OE1	2.20	0.41
9:O:327:THR:HG23	9:O:346:VAL:CB	2.49	0.41
10:B:136:LEU:HA	10:B:139:LEU:CD1	2.47	0.41
6:R:77:HIS:HE1	6:R:96:LEU:HB2	1.86	0.41
8:G:41:TYR:HB2	8:G:161:ASP:OD2	2.20	0.41
9:O:147:TRP:CD1	9:O:190:HIS:CD2	3.05	0.41
10:B:54:PHE:HB3	10:B:91:ARG:NH1	2.36	0.41
10:B:129:GLN:NE2	10:B:162:ARG:HH12	2.19	0.41
1:A:164:THR:HA	1:A:167:VAL:HB	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:108:MET:CG	8:G:111:ILE:HD13	2.50	0.41
8:G:140:ILE:HA	8:G:158:ILE:CG1	2.44	0.41
9:O:217:GLU:CD	9:O:269:ARG:HH22	2.28	0.41
9:O:439:LEU:HD13	9:O:442:ARG:NH2	2.35	0.41
9:O:691:ARG:CZ	9:O:694:LEU:CD2	2.94	0.41
10:B:175:LEU:HD22	10:B:175:LEU:N	2.35	0.41
8:G:104:LEU:HD12	8:G:116:LEU:HD21	2.02	0.41
8:G:181:CYS:O	8:G:185:LEU:HG	2.20	0.41
8:G:201:GLN:HE21	8:G:205:LEU:CD1	2.26	0.41
8:G:205:LEU:O	8:G:209:ILE:HG13	2.20	0.41
9:O:147:TRP:CZ2	9:O:150:LEU:HD22	2.56	0.41
9:O:586:LEU:C	9:O:586:LEU:CD2	2.94	0.41
2:D:84:ILE:O	2:D:88:THR:OG1	2.35	0.41
2:D:123:ALA:HB3	2:D:154:LEU:HD22	2.02	0.41
2:D:208:TYR:HB3	2:D:225:ALA:O	2.20	0.41
2:D:379:PHE:HA	2:D:382:ASN:HD22	1.85	0.41
6:R:75:CYS:O	6:R:77:HIS:N	2.50	0.41
9:O:84:LEU:HD21	9:O:162:MET:HB2	2.02	0.41
9:O:234:GLN:HA	9:O:234:GLN:NE2	2.35	0.41
9:O:245:ASP:HA	9:O:248:ILE:CG1	2.51	0.41
9:O:248:ILE:O	9:O:251:ARG:HB2	2.20	0.41
9:O:450:SER:O	9:O:454:GLU:HG3	2.21	0.41
9:O:694:LEU:HD12	9:O:699:LEU:CD1	2.41	0.41
10:B:36:TYR:HA	10:B:39:SER:HB3	2.01	0.41
10:B:48:LYS:C	10:B:50:ALA:H	2.28	0.41
10:B:355:ARG:C	10:B:358:VAL:HG22	2.46	0.41
1:A:86:GLN:O	1:A:90:SER:N	2.40	0.41
1:A:478:MET:CE	10:B:426:LYS:CG	2.98	0.41
2:D:383:ASN:HD22	8:G:156:PHE:HE1	1.65	0.41
3:H:55:TYR:HA	7:C:153:LYS:HG3	1.37	0.41
5:Q:64:GLU:N	9:O:46:CYS:O	2.54	0.41
8:G:143:GLY:C	8:G:144:LYS:HG3	2.46	0.41
9:O:34:THR:O	9:O:37:ASP:HB3	2.19	0.41
9:O:102:ASP:O	9:O:105:TYR:HB3	2.21	0.41
9:O:482:VAL:HG13	9:O:483:SER:N	2.34	0.41
10:B:232:LEU:HD11	10:B:268:SER:CB	2.51	0.41
1:A:471:THR:HA	1:A:474:LYS:HG2	2.03	0.41
2:D:12:LEU:HD13	2:D:29:ILE:HD13	2.03	0.41
2:D:100:GLU:O	2:D:139:TYR:OH	2.37	0.41
2:D:386:GLU:O	2:D:390:GLN:HB2	2.21	0.41
3:H:132:ASP:O	3:H:136:PHE:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:68:HIS:HE1	9:O:2:SER:H	1.67	0.41
6:R:31:ALA:HB3	9:O:556:LEU:CD1	2.51	0.41
9:O:81:GLU:CD	9:O:176:PRO:HG2	2.46	0.41
9:O:101:MET:HE2	9:O:139:ILE:CD1	2.43	0.41
9:O:105:TYR:HH	9:O:112:PHE:HZ	1.62	0.41
9:O:247:GLU:O	9:O:251:ARG:HG3	2.21	0.41
9:O:267:GLN:HB3	9:O:304:VAL:HG13	1.99	0.41
9:O:324:LEU:O	9:O:328:SER:HB3	2.20	0.41
9:O:462:LYS:HE2	10:B:230:HIS:NE2	2.35	0.41
9:O:672:VAL:O	9:O:675:ASP:HB2	2.20	0.41
1:A:344:ARG:O	1:A:348:SER:OG	2.32	0.41
2:D:19:HIS:HE1	2:D:57:VAL:HG13	1.86	0.41
2:D:168:ILE:HD12	2:D:168:ILE:HA	1.94	0.41
2:D:184:GLN:O	2:D:188:LYS:HG2	2.21	0.41
3:H:58:LYS:HB2	7:C:153:LYS:HG3	2.03	0.41
5:Q:95:ILE:HB	5:Q:103:LEU:HA	2.02	0.41
6:R:31:ALA:CB	9:O:556:LEU:HD12	2.51	0.41
6:R:33:TRP:CG	6:R:34:ALA:O	2.74	0.41
7:C:50:ASP:C	7:C:52:GLN:H	2.28	0.41
8:G:34:VAL:HG13	8:G:43:PHE:CZ	2.56	0.41
8:G:61:ALA:O	8:G:65:GLN:HG3	2.19	0.41
8:G:66:LEU:CD1	8:G:96:LEU:HD21	2.50	0.41
8:G:76:PRO:HD3	8:G:120:LEU:HD21	2.03	0.41
8:G:136:VAL:N	8:G:141:ILE:HD12	2.35	0.41
8:G:142:GLN:C	8:G:155:ASP:H	2.28	0.41
9:O:81:GLU:CG	9:O:176:PRO:HG2	2.50	0.41
9:O:204:GLN:HG2	9:O:208:GLU:OE1	2.21	0.41
9:O:508:GLN:HB2	9:O:561:THR:HG21	2.02	0.41
9:O:512:LEU:HB2	9:O:553:LEU:CD1	2.51	0.41
9:O:548:PHE:CB	9:O:551:ARG:HB2	2.45	0.41
9:O:651:PHE:O	9:O:652:LYS:HB2	2.21	0.41
9:O:731:ILE:CD1	9:O:731:ILE:N	2.83	0.41
10:B:1:MET:CG	10:B:2:SER:N	2.83	0.41
10:B:21:SER:HB2	10:B:64:LYS:HB3	2.01	0.41
10:B:27:GLU:CB	10:B:28:PRO:HD3	2.30	0.41
10:B:32:LEU:N	10:B:32:LEU:CD2	2.84	0.41
10:B:94:GLN:O	10:B:98:TYR:CD2	2.74	0.41
10:B:140:LYS:NZ	10:B:148:TRP:CH2	2.88	0.41
10:B:340:ASP:HA	10:B:341:PRO:HD2	1.92	0.41
1:A:487:LYS:HG2	7:C:165:ASP:OD2	2.21	0.41
2:D:394:GLU:OE2	8:G:48:GLU:N	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:P:31:VAL:HA	4:P:34:ILE:HD12	2.01	0.41
8:G:96:LEU:HA	8:G:99:LEU:CG	2.50	0.41
9:O:25:VAL:HG11	9:O:64:PHE:CD2	2.56	0.41
9:O:65:LEU:HD23	9:O:69:VAL:HG23	2.03	0.41
9:O:163:LEU:HD11	9:O:188:PHE:CE2	2.55	0.41
9:O:236:MET:HE3	9:O:300:LEU:HD22	2.00	0.41
9:O:428:LYS:O	9:O:432:GLN:HB2	2.21	0.41
10:B:204:MET:CE	10:B:205:TYR:CE2	3.03	0.41
10:B:341:PRO:O	10:B:345:GLU:HB2	2.21	0.41
1:A:313:HIS:CD2	1:A:314:CYS:H	2.39	0.40
3:H:25:LEU:HD21	7:C:118:LEU:CB	2.00	0.40
6:R:18:LYS:O	9:O:568:TYR:CG	2.73	0.40
6:R:35:TRP:HE3	9:O:514:ALA:O	2.04	0.40
8:G:50:ALA:HA	8:G:53:GLN:CG	2.51	0.40
8:G:97:LYS:CG	8:G:120:LEU:HD22	2.40	0.40
9:O:10:PHE:CG	9:O:56:ARG:NH2	2.89	0.40
9:O:222:GLU:OE1	9:O:222:GLU:HA	2.21	0.40
9:O:322:GLU:HG3	9:O:326:ALA:HB2	2.04	0.40
9:O:346:VAL:HG13	9:O:350:PHE:CD2	2.55	0.40
9:O:396:ASP:OD1	9:O:435:TYR:CE1	2.74	0.40
9:O:431:PHE:O	9:O:435:TYR:HB3	2.21	0.40
9:O:565:LYS:CG	9:O:574:VAL:HG22	2.43	0.40
9:O:618:LEU:HD12	9:O:618:LEU:N	2.36	0.40
9:O:659:LYS:HB3	9:O:663:GLN:OE1	2.21	0.40
10:B:170:LYS:O	10:B:174:GLN:HG3	2.21	0.40
10:B:386:GLU:O	10:B:390:VAL:HG23	2.19	0.40
8:G:69:LEU:HD11	8:G:74:THR:O	2.22	0.40
8:G:165:LYS:HG2	8:G:167:LEU:HD13	2.04	0.40
9:O:57:LEU:C	9:O:57:LEU:CD2	2.95	0.40
9:O:65:LEU:C	9:O:65:LEU:CD2	2.94	0.40
9:O:101:MET:CB	9:O:139:ILE:HD13	2.51	0.40
9:O:315:LEU:HB2	9:O:367:ALA:HB3	2.03	0.40
9:O:527:PHE:HD2	9:O:529:ILE:H	1.61	0.40
9:O:651:PHE:CA	9:O:653:ILE:HG23	2.51	0.40
9:O:655:THR:HG22	9:O:656:SER:HA	2.04	0.40
10:B:27:GLU:HB3	10:B:28:PRO:CD	2.34	0.40
10:B:46:ASP:HA	10:B:47:PRO:HD2	1.86	0.40
10:B:57:VAL:CG1	10:B:68:GLY:HA3	2.51	0.40
10:B:160:LEU:HD13	10:B:203:GLN:CG	2.46	0.40
3:H:206:PHE:CD1	7:C:380:MET:SD	3.15	0.40
6:R:29:ALA:CB	9:O:558:TYR:OH	2.70	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:110:CYS:CB	8:G:151:LEU:HB3	2.48	0.40
8:G:125:LEU:HD22	8:G:129:GLU:OE1	2.21	0.40
8:G:133:ILE:CA	8:G:136:VAL:HG22	2.50	0.40
8:G:156:PHE:HE2	8:G:158:ILE:HG22	1.86	0.40
9:O:24:VAL:HG11	9:O:100:TYR:CB	2.35	0.40
9:O:108:LEU:HB3	9:O:112:PHE:HE1	1.84	0.40
9:O:195:LYS:O	9:O:196:LYS:HB2	2.22	0.40
9:O:271:VAL:CG1	9:O:304:VAL:HG11	2.52	0.40
9:O:475:ARG:O	9:O:478:THR:HG22	2.22	0.40
9:O:663:GLN:O	9:O:666:GLU:HB2	2.22	0.40
10:B:23:ASP:O	10:B:26:SER:HB3	2.21	0.40
10:B:76:ILE:HG22	10:B:88:MET:CA	2.50	0.40
10:B:119:ILE:CB	10:B:128:LEU:HD13	2.51	0.40
10:B:141:ASP:OD1	10:B:143:LYS:HD2	2.22	0.40
10:B:194:LEU:O	10:B:198:TYR:CE2	2.74	0.40
10:B:373:PHE:HA	10:B:376:LYS:HE3	1.99	0.40
1:A:452:ARG:HD3	1:A:452:ARG:HA	1.92	0.40
1:A:480:LYS:CD	7:C:379:GLU:OE1	2.69	0.40
2:D:120:TRP:CE2	2:D:157:GLU:HG2	2.56	0.40
3:H:53:ALA:HB1	3:H:75:TRP:HZ3	1.85	0.40
8:G:46:LEU:HD23	8:G:46:LEU:HA	1.85	0.40
8:G:103:SER:HB2	8:G:107:ARG:HH12	1.86	0.40
8:G:120:LEU:HD23	8:G:120:LEU:HA	1.76	0.40
8:G:206:LYS:HA	8:G:209:ILE:HD12	2.02	0.40
9:O:380:GLU:N	9:O:381:PRO:HD2	2.37	0.40
9:O:565:LYS:CE	10:B:12:ASP:HB3	2.41	0.40
9:O:571:LYS:HB2	9:O:573:TYR:CZ	2.57	0.40
9:O:726:ILE:HG22	9:O:726:ILE:O	2.20	0.40
1:A:440:LEU:HD23	1:A:443:LEU:HD12	2.04	0.40
6:R:49:ILE:HG23	6:R:66:GLU:HA	2.04	0.40
8:G:96:LEU:CA	8:G:99:LEU:HD12	2.51	0.40
9:O:39:PHE:O	9:O:42:ILE:HB	2.22	0.40
9:O:147:TRP:CH2	9:O:150:LEU:HD22	2.55	0.40
9:O:259:TYR:O	9:O:263:ILE:HG12	2.21	0.40
9:O:494:ILE:HD12	9:O:501:ILE:HG23	2.03	0.40
10:B:171:ILE:HG22	10:B:175:LEU:HD23	2.04	0.40
10:B:388:LEU:C	10:B:388:LEU:CD1	2.95	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	415/491 (84%)	381 (92%)	34 (8%)	0	100	100
2	D	402/406 (99%)	387 (96%)	15 (4%)	0	100	100
3	H	165/199 (83%)	154 (93%)	10 (6%)	1 (1%)	21	59
4	P	102/104 (98%)	88 (86%)	14 (14%)	0	100	100
5	Q	84/112 (75%)	75 (89%)	9 (11%)	0	100	100
6	R	82/86 (95%)	64 (78%)	16 (20%)	2 (2%)	4	27
7	C	397/401 (99%)	360 (91%)	24 (6%)	13 (3%)	3	21
8	G	213/215 (99%)	184 (86%)	28 (13%)	1 (0%)	24	63
9	O	728/745 (98%)	671 (92%)	50 (7%)	7 (1%)	12	48
10	B	439/443 (99%)	408 (93%)	25 (6%)	6 (1%)	9	40
All	All	3027/3202 (94%)	2772 (92%)	225 (7%)	30 (1%)	15	48

All (30) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
6	R	41	ASN
7	C	51	VAL
7	C	68	MET
9	O	27	LEU
10	B	30	VAL
10	B	194	LEU
10	B	296	SER
3	H	29	GLY
7	C	71	VAL
7	C	153	LYS
7	C	172	GLU
9	O	231	ASN
9	O	729	GLN
6	R	40	ASP

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Mol	Chain	Res	Type
7	C	33	GLU
7	C	89	ASN
7	C	114	ARG
7	C	168	ASP
9	O	80	GLU
9	O	356	THR
9	O	361	ASP
10	B	124	GLN
10	B	144	ASN
7	C	86	SER
7	C	117	PRO
7	C	329	SER
10	B	271	PRO
9	O	529	ILE
7	C	32	GLY
8	G	38	PRO

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	365/429 (85%)	365 (100%)	0	100	100
2	D	347/347 (100%)	346 (100%)	1 (0%)	86	86
3	H	140/166 (84%)	140 (100%)	0	100	100
4	P	92/92 (100%)	92 (100%)	0	100	100
5	Q	79/96 (82%)	79 (100%)	0	100	100
6	R	73/75 (97%)	73 (100%)	0	100	100
7	C	358/358 (100%)	347 (97%)	11 (3%)	35	56
8	G	184/184 (100%)	183 (100%)	1 (0%)	81	83
9	O	674/681 (99%)	663 (98%)	11 (2%)	55	70
10	B	405/405 (100%)	395 (98%)	10 (2%)	42	63
All	All	2717/2833 (96%)	2683 (99%)	34 (1%)	59	74

All (34) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	D	359	VAL
7	C	22	THR
7	C	51	VAL
7	C	62	LEU
7	C	64	VAL
7	C	123	ILE
7	C	124	LEU
7	C	131	MET
7	C	138	LEU
7	C	221	LEU
7	C	278	LEU
7	C	396	GLU
8	G	11	LEU
9	O	114	LYS
9	O	401	LYS
9	O	404	LYS
9	O	604	GLN
9	O	612	LYS
9	O	629	LYS
9	O	717	MET
9	O	719	LYS
9	O	728	LYS
9	O	735	GLN
9	O	741	TYR
10	B	18	LEU
10	B	140	LYS
10	B	143	LYS
10	B	146	ARG
10	B	215	LYS
10	B	320	ASN
10	B	338	MET
10	B	350	LEU
10	B	361	LYS
10	B	416	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (95) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	86	GLN
1	A	191	ASN
1	A	201	HIS

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Mol	Chain	Res	Type
1	A	250	ASN
1	A	279	GLN
1	A	387	ASN
1	A	412	GLN
1	A	456	HIS
1	A	483	GLN
1	A	498	ASN
2	D	28	GLN
2	D	75	ASN
2	D	93	GLN
2	D	102	GLN
2	D	169	ASN
2	D	175	GLN
2	D	307	HIS
2	D	341	GLN
2	D	373	GLN
2	D	398	GLN
3	H	22	ASN
3	H	52	ASN
3	H	151	GLN
5	Q	58	ASN
5	Q	61	ASN
6	R	82	HIS
7	C	82	GLN
7	C	89	ASN
7	C	106	GLN
7	C	126	GLN
7	C	147	GLN
7	C	239	GLN
7	C	270	ASN
7	C	306	ASN
7	C	320	GLN
7	C	363	ASN
7	C	375	ASN
8	G	33	GLN
8	G	60	ASN
8	G	81	ASN
8	G	124	ASN
8	G	150	GLN
8	G	201	GLN
9	O	71	HIS
9	O	88	HIS

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Mol	Chain	Res	Type
9	O	116	ASN
9	O	169	ASN
9	O	186	ASN
9	O	190	HIS
9	O	204	GLN
9	O	225	ASN
9	O	228	GLN
9	O	231	ASN
9	O	264	HIS
9	O	268	GLN
9	O	276	GLN
9	O	279	HIS
9	O	284	ASN
9	O	288	GLN
9	O	310	HIS
9	O	317	ASN
9	O	329	ASN
9	O	352	GLN
9	O	377	ASN
9	O	397	ASN
9	O	409	ASN
9	O	459	ASN
9	O	474	HIS
9	O	487	ASN
9	O	496	ASN
9	O	497	GLN
9	O	513	GLN
9	O	531	GLN
9	O	606	ASN
9	O	625	HIS
9	O	641	ASN
9	O	667	GLN
9	O	696	HIS
9	O	706	GLN
9	O	735	GLN
10	B	34	ASN
10	B	38	ASN
10	B	74	GLN
10	B	79	ASN
10	B	84	ASN
10	B	129	GLN
10	B	208	GLN

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Mol	Chain	Res	Type
10	B	211	ASN
10	B	292	ASN
10	B	313	ASN
10	B	319	GLN
10	B	320	ASN
10	B	321	ASN
10	B	370	HIS
10	B	396	ASN

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](#)

Of 3 ligands modelled in this entry, 3 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues

The following chains have linkage breaks:

Mol	Chain	Number of breaks
6	R	2
2	D	1
7	C	1
10	B	1
9	O	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	R	33:TRP	C	34:ALA	N	5.88
1	D	315:LEU	C	316:TYR	N	3.54
1	C	399:VAL	C	400:ASN	N	3.46
1	B	416:ARG	C	417:GLY	N	3.16
1	O	175:ASP	C	176:PRO	N	2.97
1	R	40:ASP	C	41:ASN	N	1.96

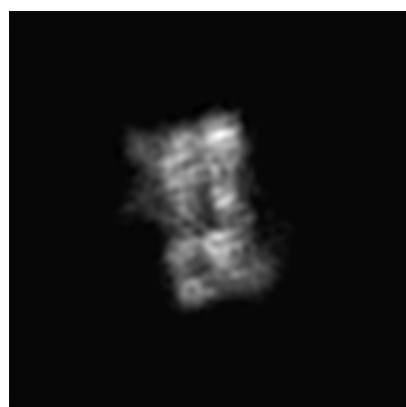
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-4744. These allow visual inspection of the internal detail of the map and identification of artifacts.

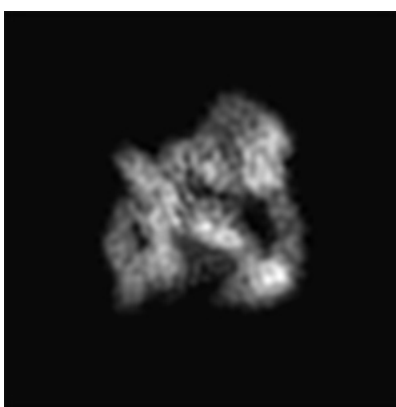
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

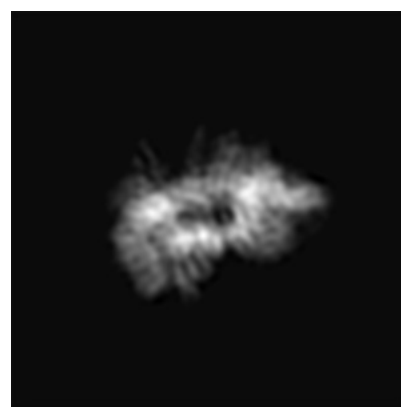
6.1.1 Primary map



X



Y



Z

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

6.2 Central slices [i](#)

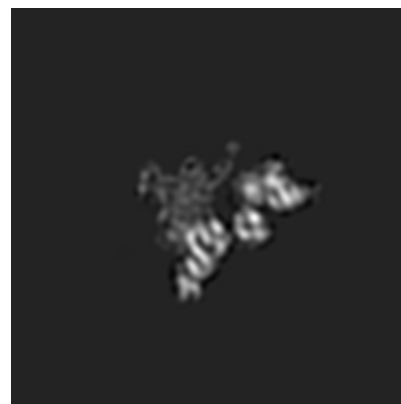
6.2.1 Primary map



X Index: 150



Y Index: 150



Z Index: 150

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

6.3 Largest variance slices [i](#)

6.3.1 Primary map



X Index: 178



Y Index: 159



Z Index: 199

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

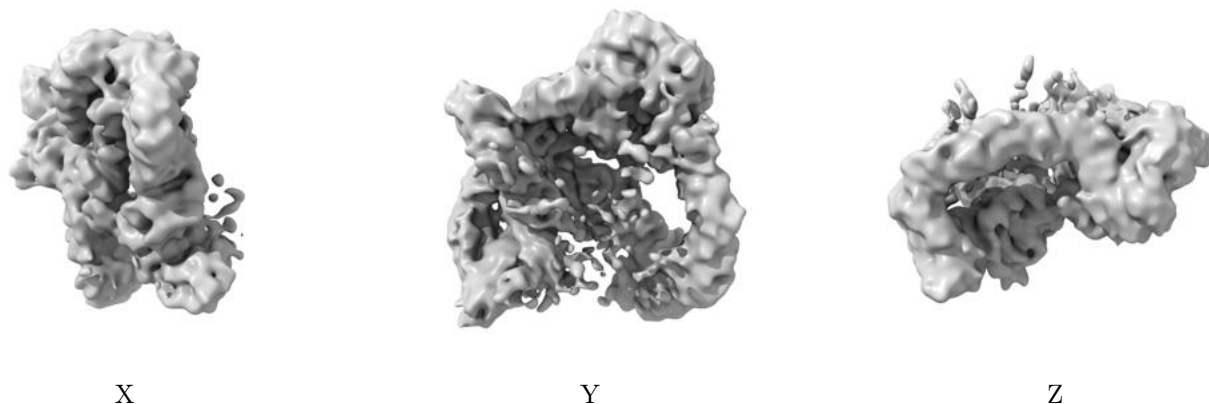


Z

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 3.65. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

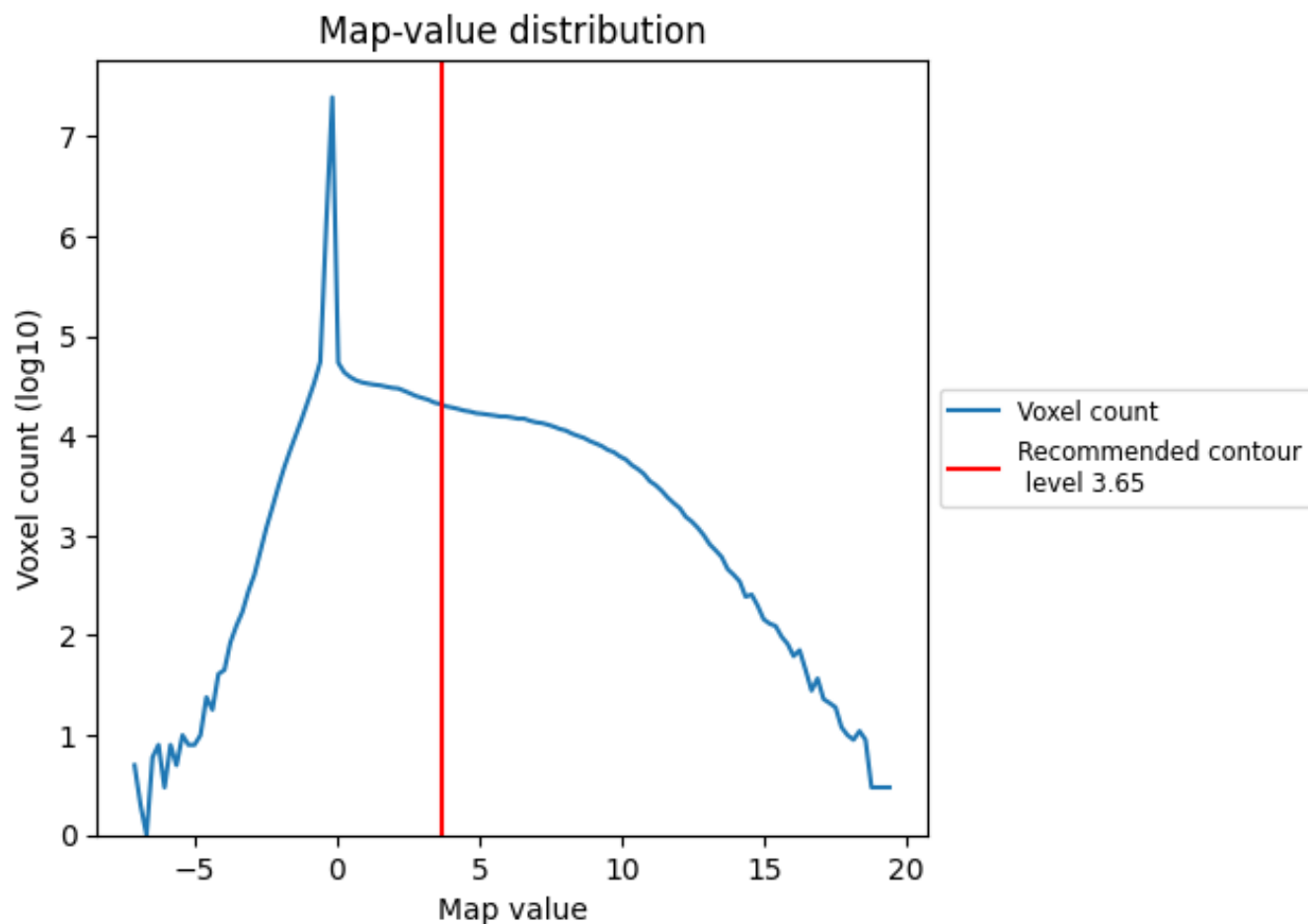
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

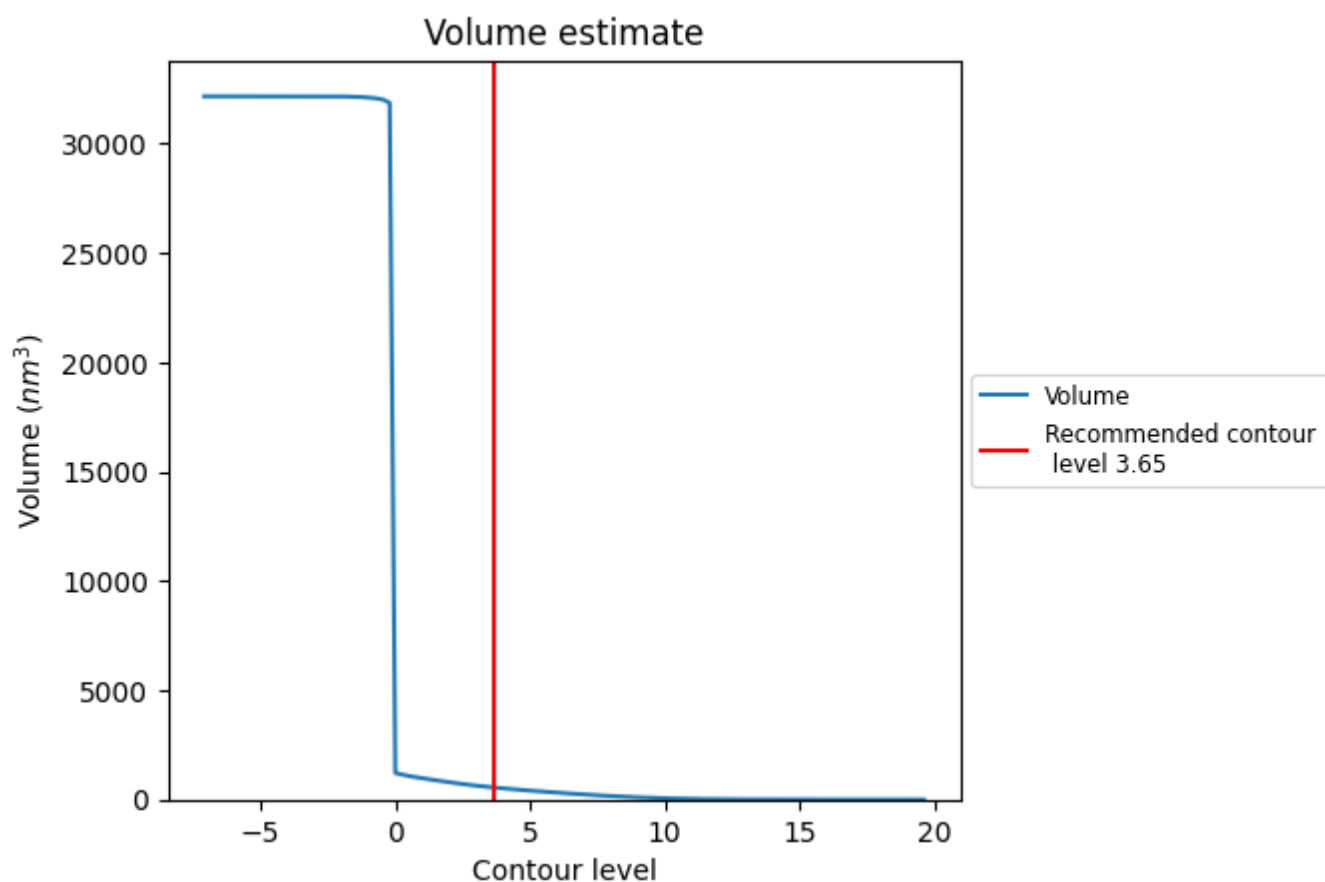
This section contains the results of statistical analysis of the map.

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.

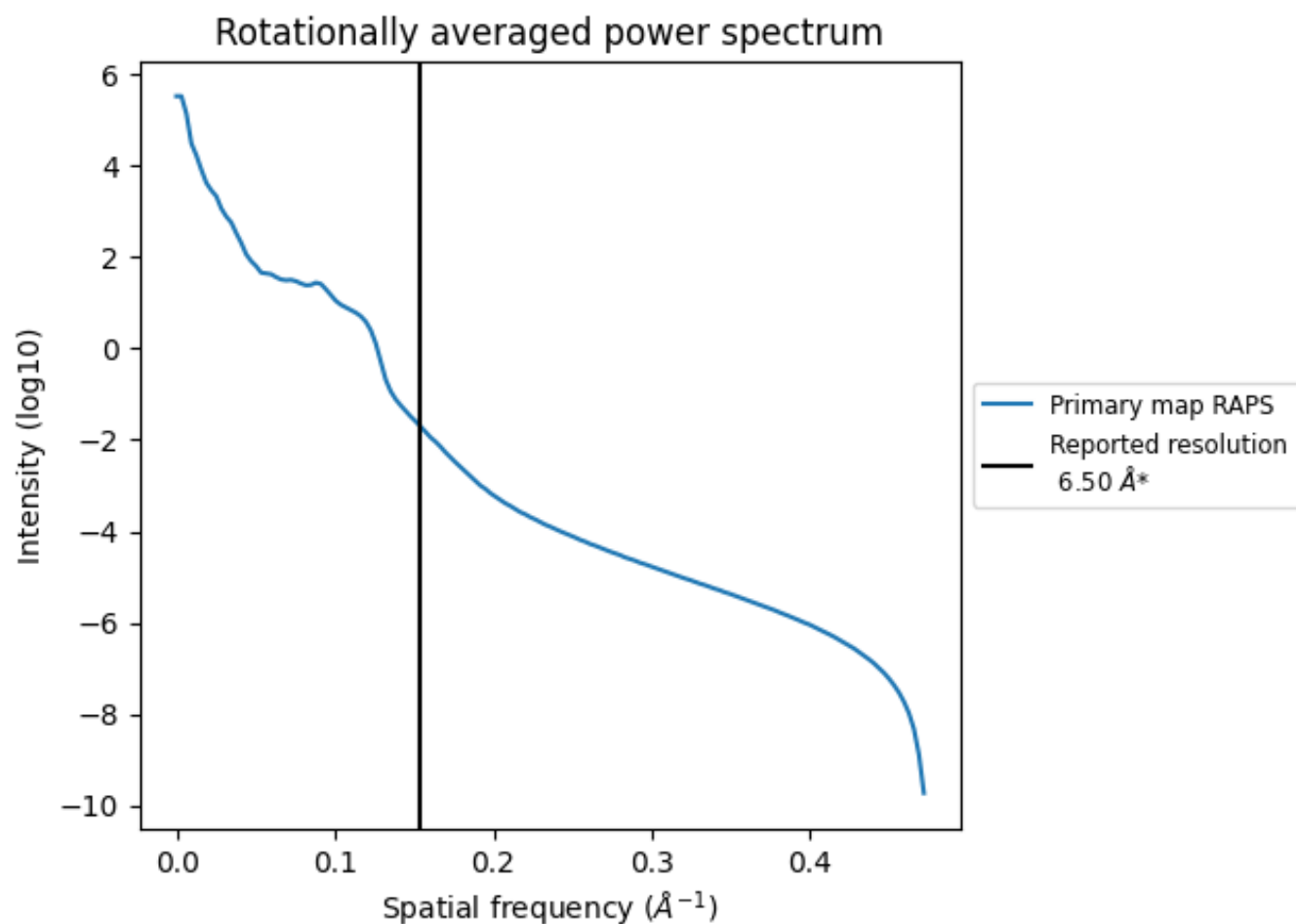
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 551 nm³; this corresponds to an approximate mass of 498 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 0.154 Å⁻¹

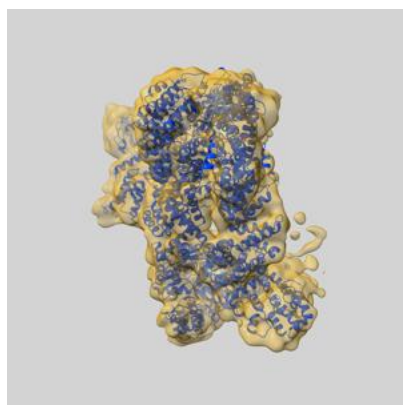
8 Fourier-Shell correlation

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

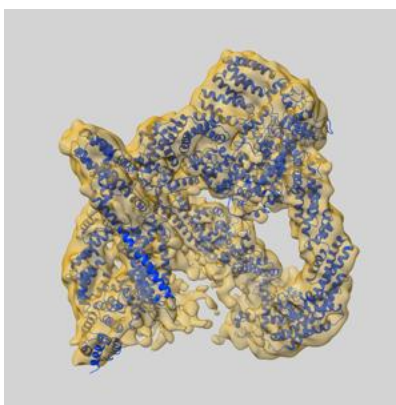
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-4744 and PDB model 6R7N. Per-residue inclusion information can be found in section [3](#) on page [6](#).

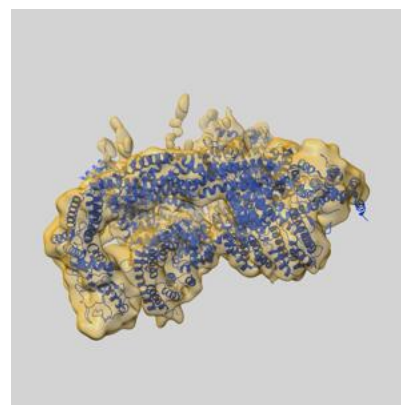
9.1 Map-model overlay [i](#)



X



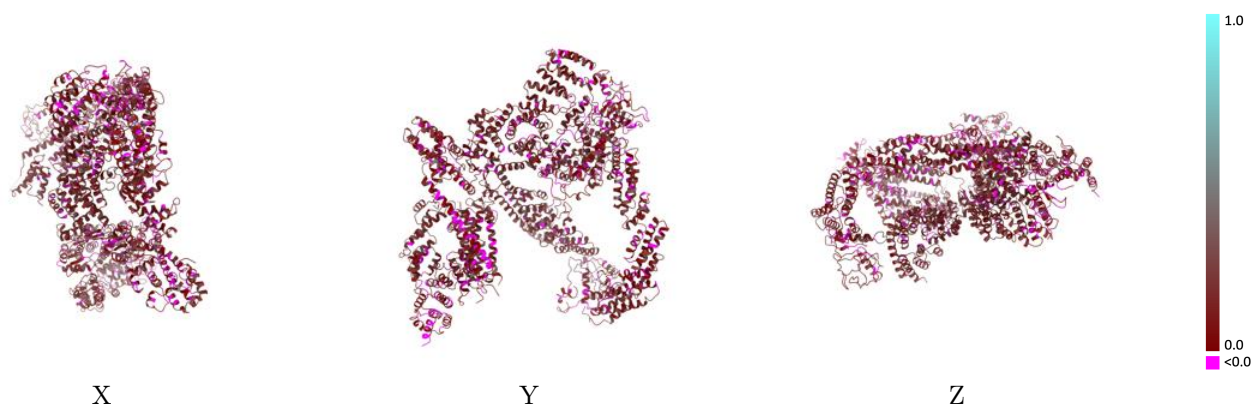
Y



Z

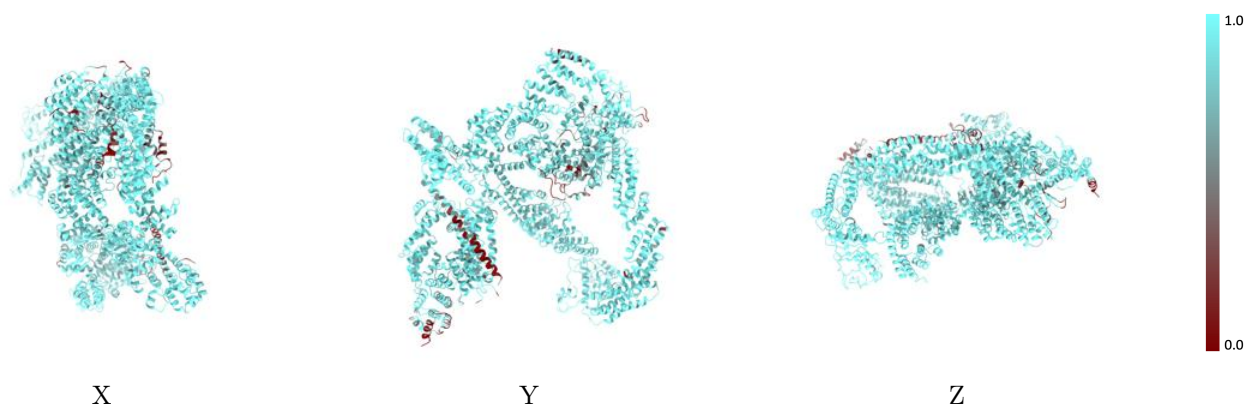
The images above show the 3D surface view of the map at the recommended contour level 3.65 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



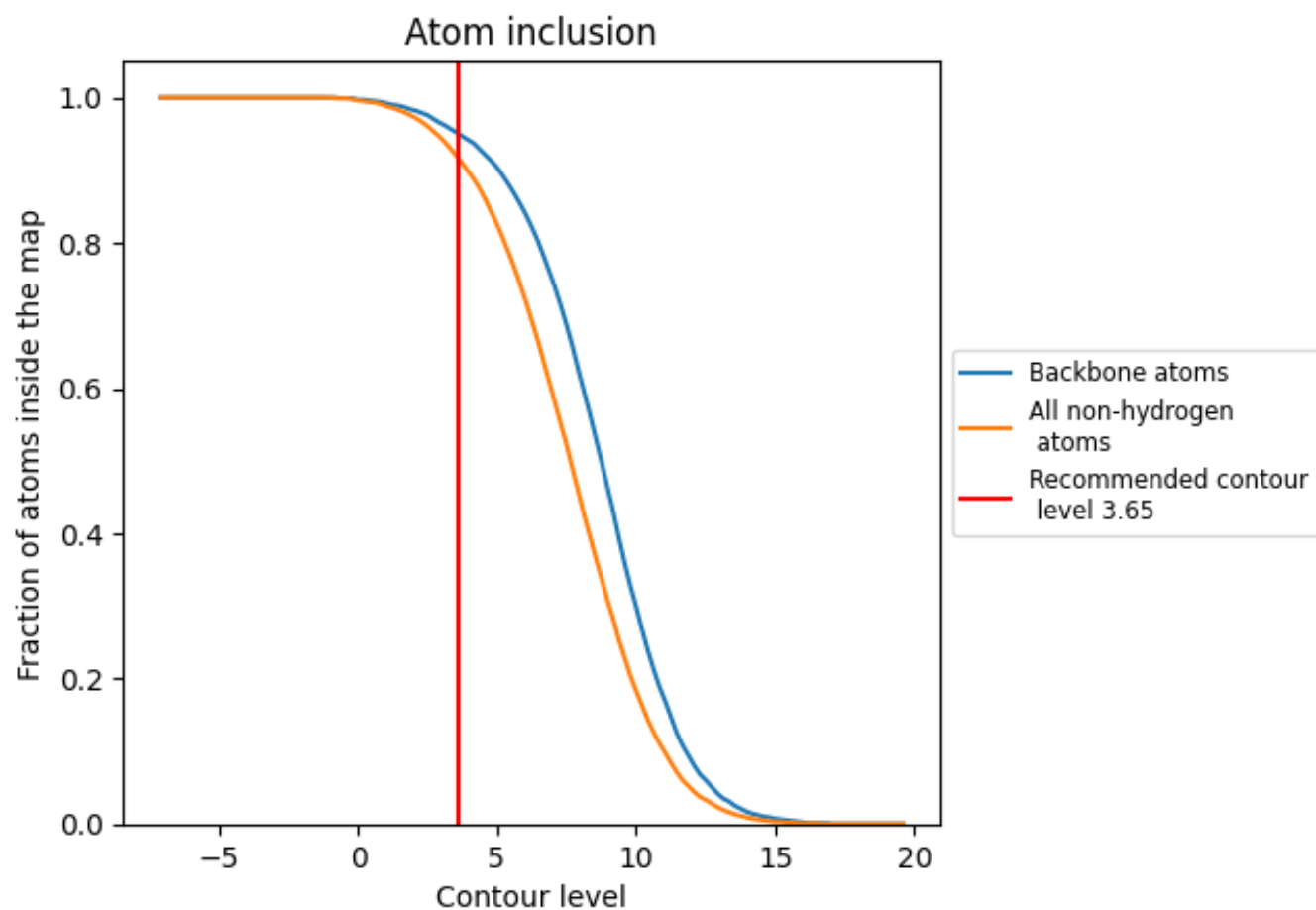
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (3.65).

9.4 Atom inclusion [i](#)



At the recommended contour level, 95% of all backbone atoms, 92% 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 (3.65) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9150	0.1360
A	0.9570	0.1650
B	0.9350	0.1500
C	0.8650	0.0990
D	0.9500	0.1570
G	0.8050	0.0980
H	0.9840	0.1510
O	0.8880	0.1310
P	0.9950	0.1410
Q	0.9800	0.1290
R	0.9000	0.0980

1.0

0.0

<0.0