



Full wwPDB EM Validation Report ⓘ

Mar 8, 2026 – 06:40 AM UTC

PDB ID : 7U9R / pdb_00007u9r
EMDB ID : EMD-26407
Title : Structure of PKA phosphorylated human RyR2 in the open state
Authors : Miotto, M.C.; Marks, A.R.
Deposited on : 2022-03-11
Resolution : 3.69 Å(reported)
Based on initial model : 7U9Q

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

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

A user guide is available at

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

The types of validation reports are described at

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

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

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

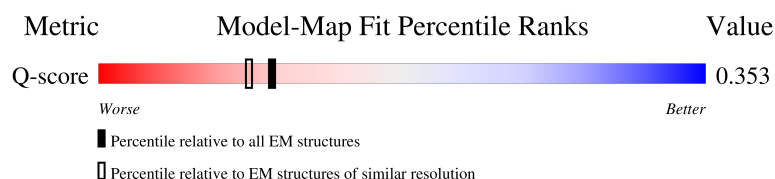
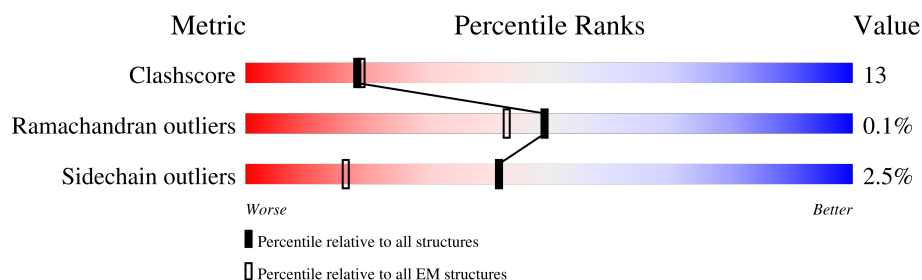
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.69 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.



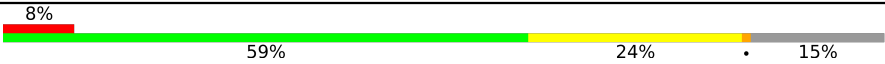
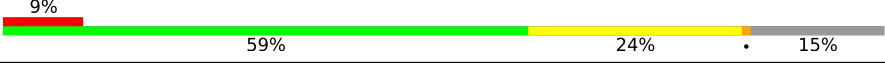
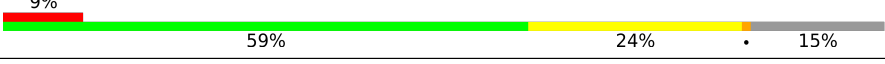
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	11284 (3.19 - 4.18)

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	E	108	 84% 15% .
1	F	108	 82% 17% .
1	G	108	 81% 19% .
1	H	108	 77% 22% .

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Mol	Chain	Length	Quality of chain
2	A	4967	
2	B	4967	
2	C	4967	
2	D	4967	

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 138656 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 Peptidyl-prolyl cis-trans isomerase FKBP1B.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	H	107	Total	C	N	O	S	0	0
			818	516	144	154	4		
1	E	107	Total	C	N	O	S	0	0
			818	516	144	154	4		
1	F	107	Total	C	N	O	S	0	0
			818	516	144	154	4		
1	G	107	Total	C	N	O	S	0	0
			818	516	144	154	4		

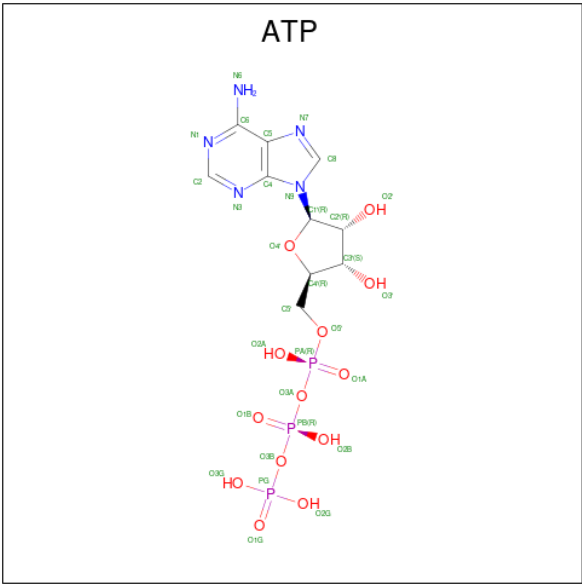
- Molecule 2 is a protein called Ryanodine receptor 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	A	4224	Total	C	N	O	S	2	0
			33771	21516	5745	6280	230		
2	D	4224	Total	C	N	O	S	2	0
			33771	21516	5745	6280	230		
2	B	4224	Total	C	N	O	S	2	0
			33771	21516	5745	6280	230		
2	C	4224	Total	C	N	O	S	2	0
			33771	21516	5745	6280	230		

- Molecule 3 is ZINC ION (CCD ID: ZN) (formula: Zn) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		AltConf
3	A	1	Total	Zn	0
			1	1	
3	D	1	Total	Zn	0
			1	1	
3	B	1	Total	Zn	0
			1	1	
3	C	1	Total	Zn	0
			1	1	

- Molecule 4 is ADENOSINE-5'-TRIPHOSPHATE (CCD ID: ATP) (formula: C₁₀H₁₆N₅O₁₃P₃) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					AltConf
4	A	1	Total	C	N	O	P	0
			31	10	5	13	3	
4	A	1	Total	C	N	O	P	0
			31	10	5	13	3	
4	D	1	Total	C	N	O	P	0
			31	10	5	13	3	
4	D	1	Total	C	N	O	P	0
			31	10	5	13	3	
4	B	1	Total	C	N	O	P	0
			31	10	5	13	3	
4	B	1	Total	C	N	O	P	0
			31	10	5	13	3	
4	C	1	Total	C	N	O	P	0
			31	10	5	13	3	
4	C	1	Total	C	N	O	P	0
			31	10	5	13	3	

- Molecule 5 is CALCIUM ION (CCD ID: CA) (formula: Ca) (labeled as "Ligand of Interest" by depositor).

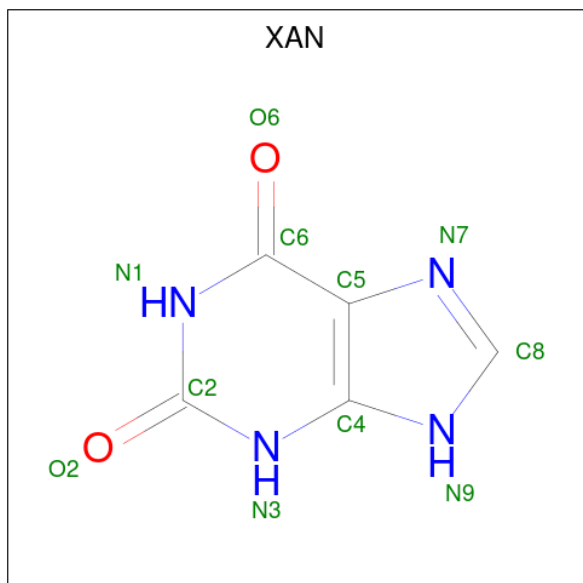
Mol	Chain	Residues	Atoms		AltConf
5	A	1	Total	Ca	0
			1	1	
5	D	1	Total	Ca	0
			1	1	

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Mol	Chain	Residues	Atoms		AltConf
5	B	1	Total	Ca	0
			1	1	
5	C	1	Total	Ca	0
			1	1	

- Molecule 6 is XANTHINE (CCD ID: XAN) (formula: $C_5H_4N_4O_2$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				AltConf
6	A	1	Total	C	N	O	0
			11	5	4	2	
6	D	1	Total	C	N	O	0
			11	5	4	2	
6	B	1	Total	C	N	O	0
			11	5	4	2	
6	C	1	Total	C	N	O	0
			11	5	4	2	

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: Peptidyl-prolyl cis-trans isomerase FKBP1B

Chain H: 



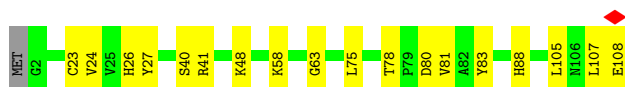
- Molecule 1: Peptidyl-prolyl cis-trans isomerase FKBP1B

Chain E: 



- Molecule 1: Peptidyl-prolyl cis-trans isomerase FKBP1B

Chain F: 



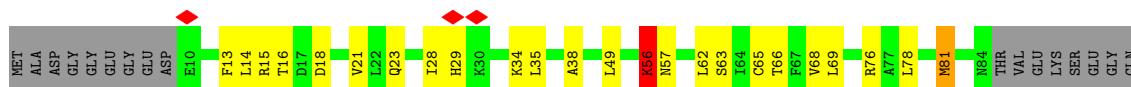
- Molecule 1: Peptidyl-prolyl cis-trans isomerase FKBP1B

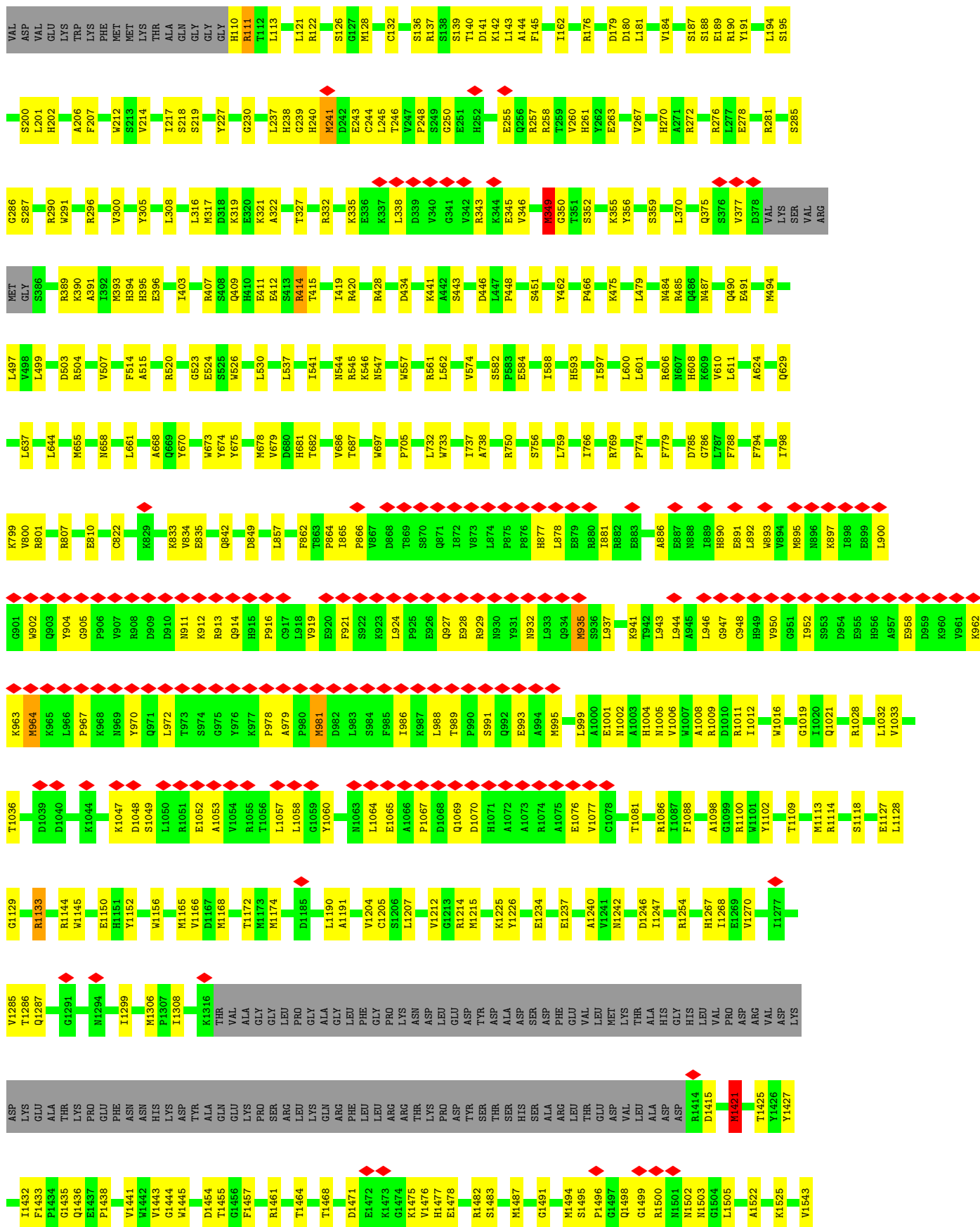
Chain G: 



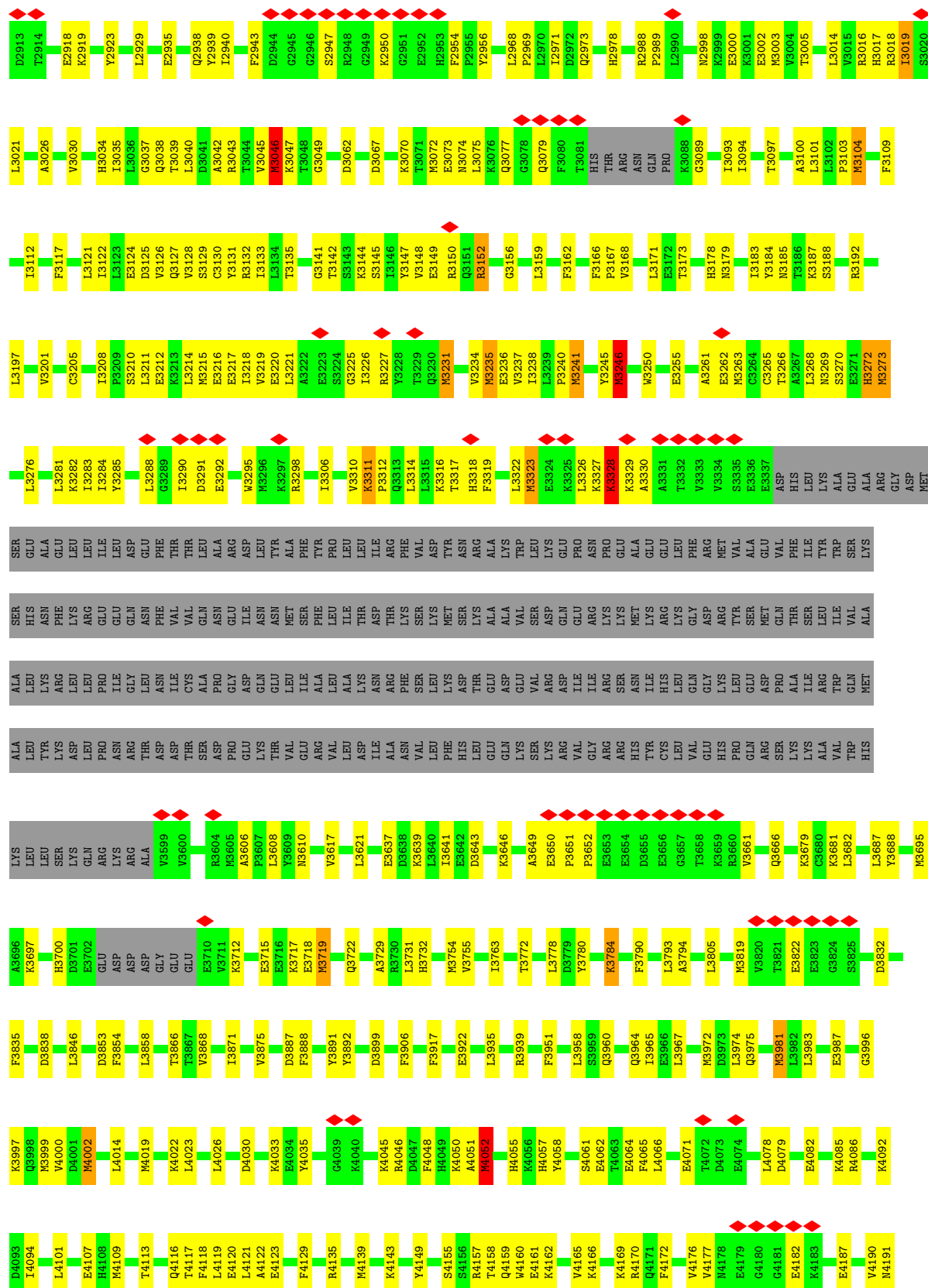
- Molecule 2: Ryanodine receptor 2

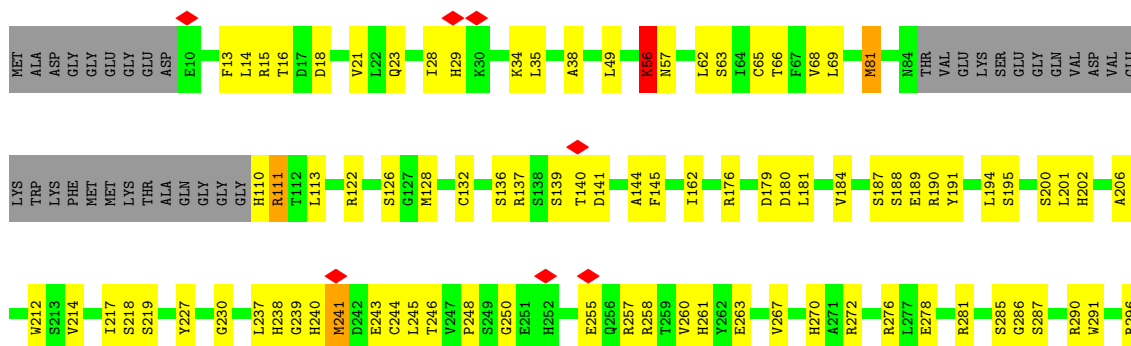
Chain A: 







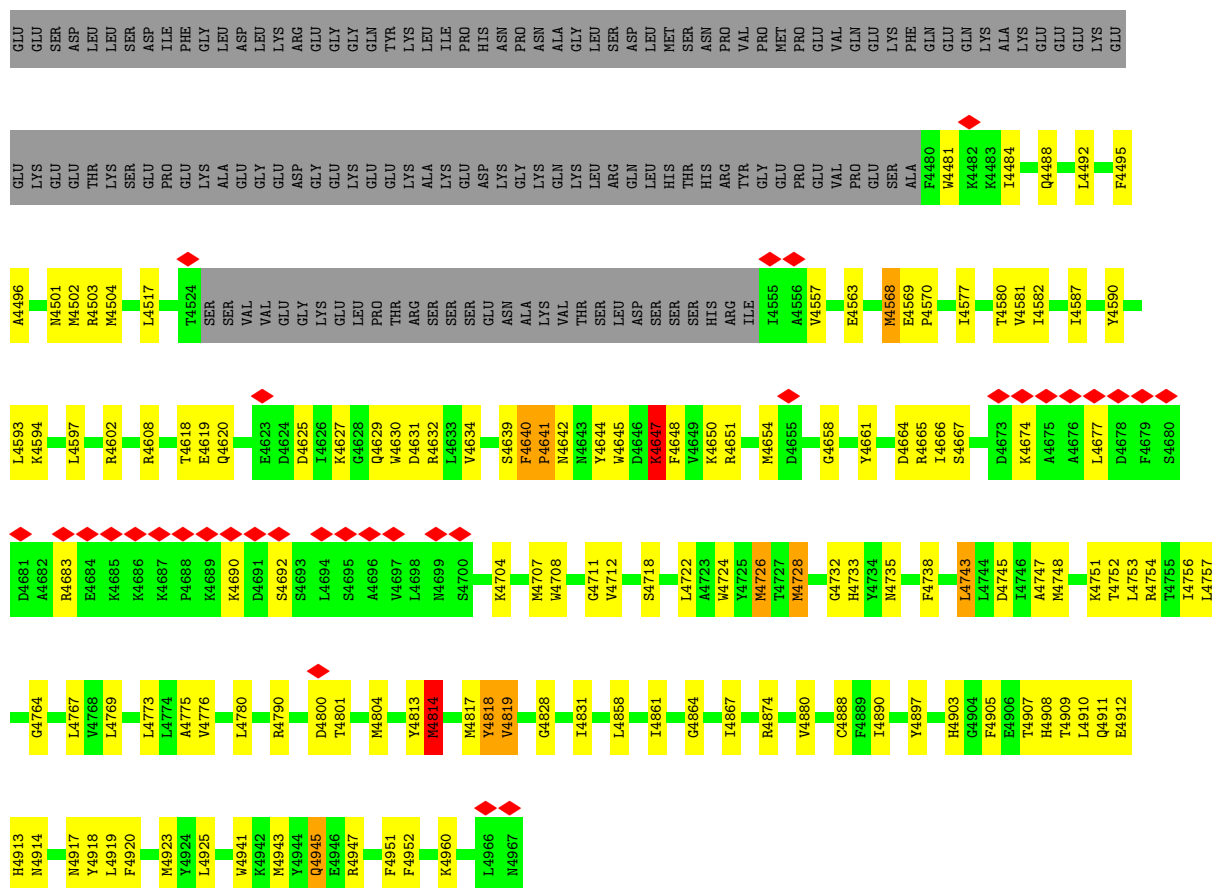




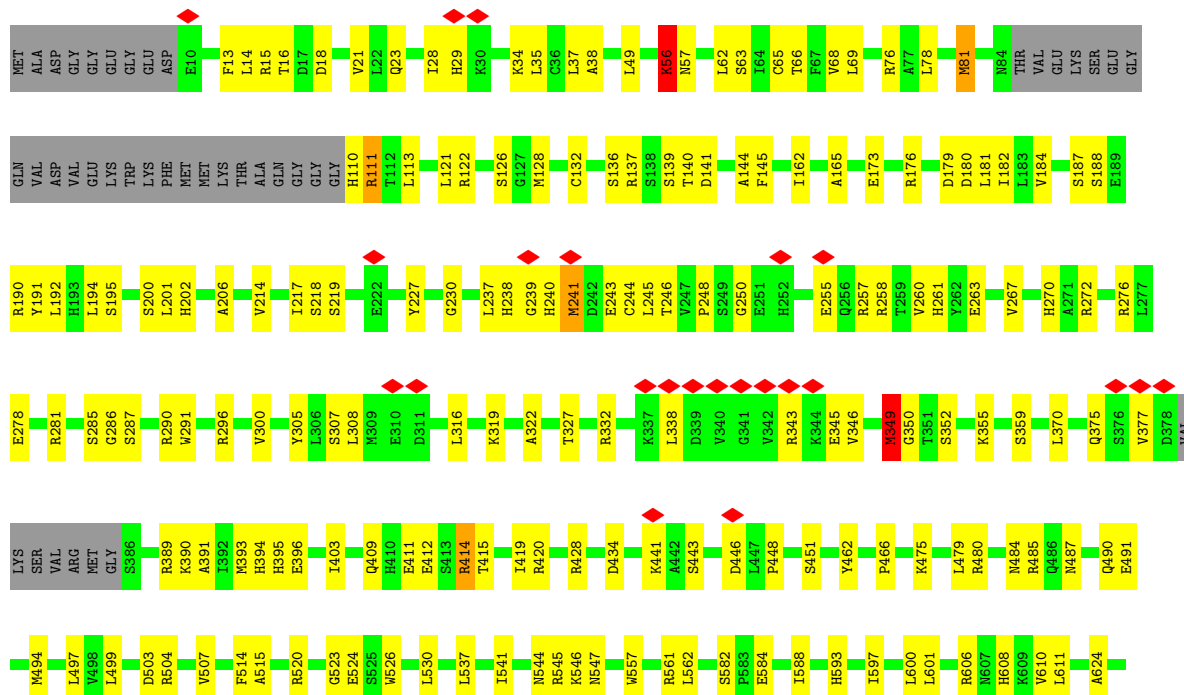








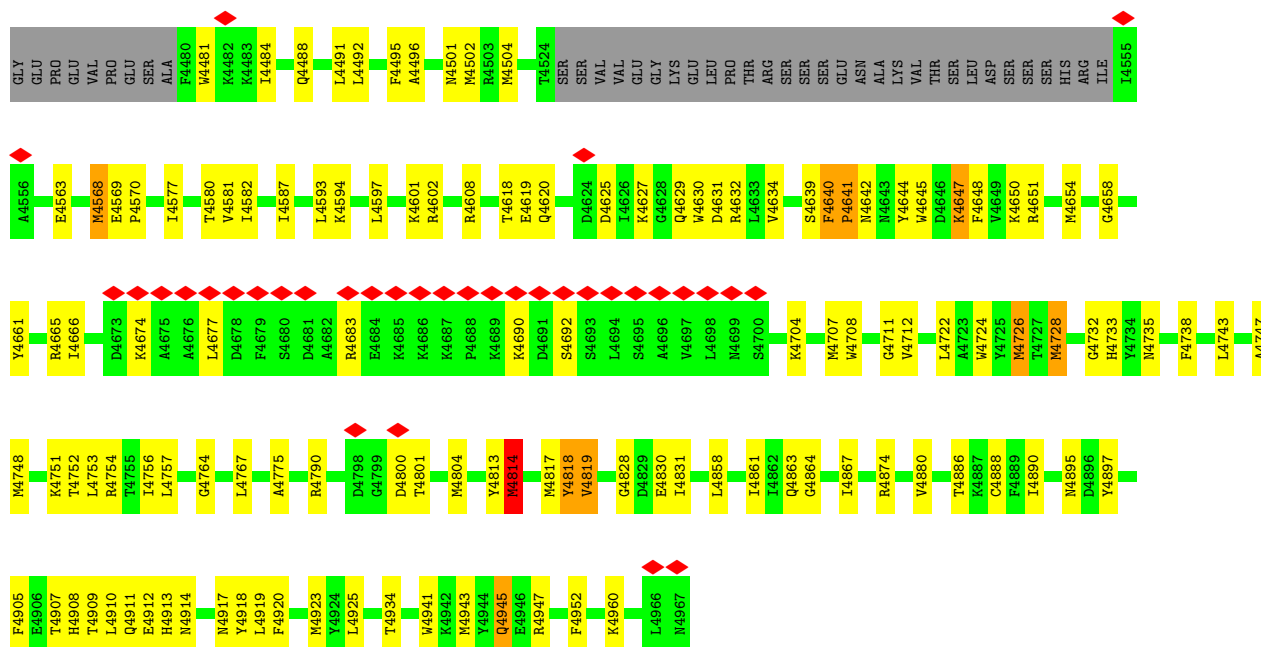
• Molecule 2: Ryanodine receptor 2



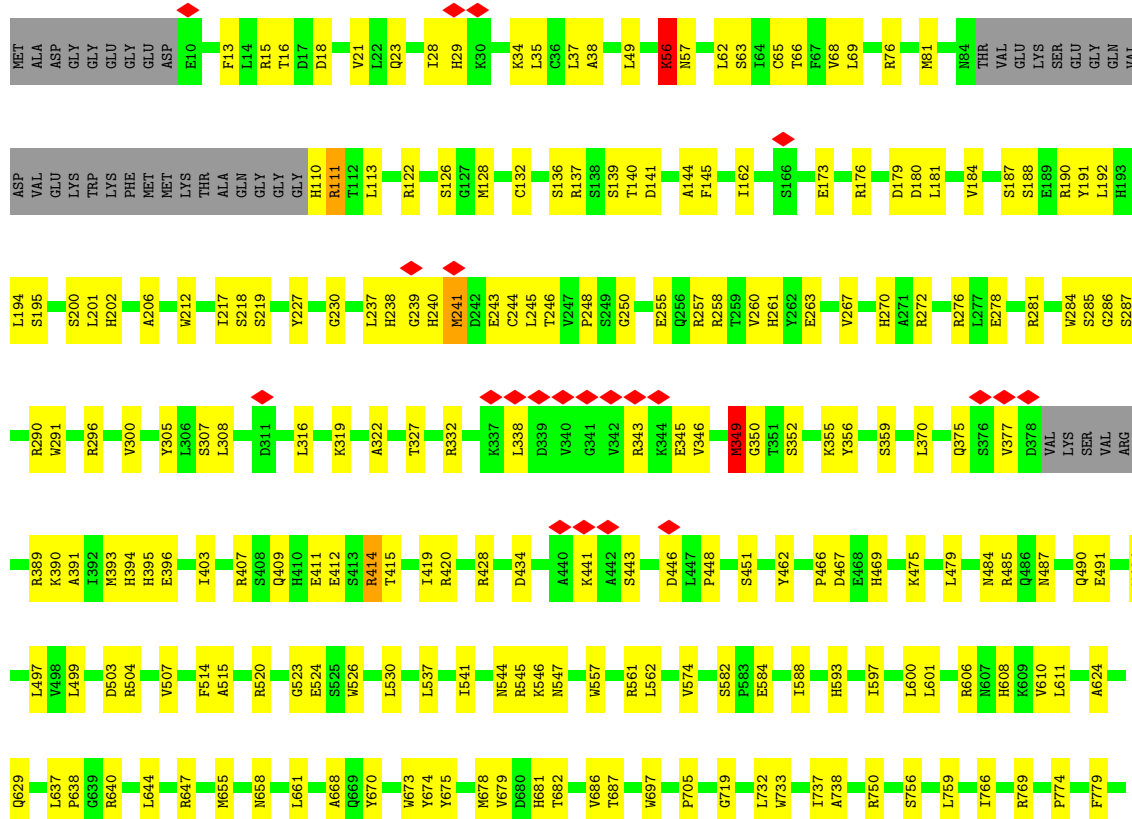








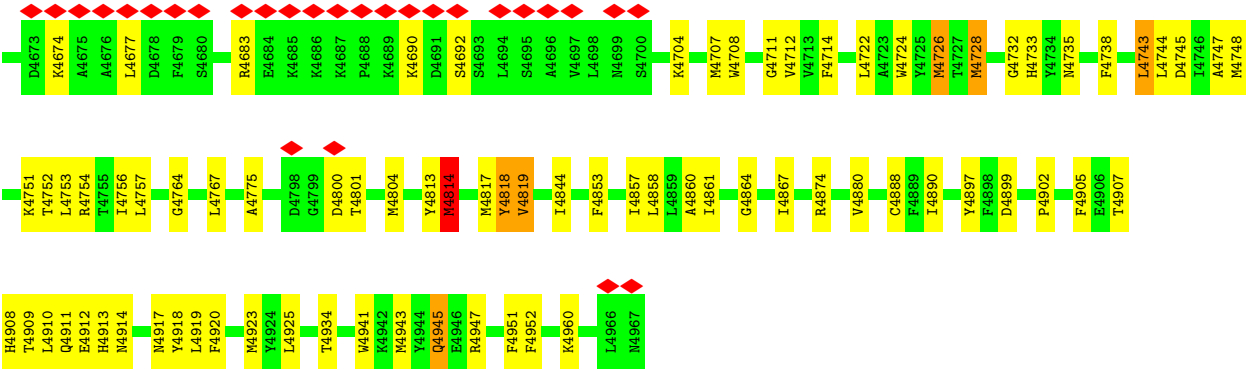
• Molecule 2: Ryanodine receptor 2







[illegible]



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	20156	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 ($e^-/\text{\AA}^2$)	58	Depositor
Minimum defocus (nm)	400	Depositor
Maximum defocus (nm)	1200	Depositor
Magnification	Not provided	
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	0.629	Depositor
Minimum map value	-0.015	Depositor
Average map value	0.016	Depositor
Map value standard deviation	0.035	Depositor
Recommended contour level	0.13	Depositor
Map size (Å)	427.008, 427.008, 427.008	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.834, 0.834, 0.834	Depositor

5 Model quality

5.1 Standard geometry

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

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	E	0.12	0/834	0.33	0/1123
1	F	0.12	0/834	0.33	0/1123
1	G	0.13	0/834	0.33	0/1123
1	H	0.12	0/834	0.33	0/1123
2	A	0.17	0/34511	0.45	29/46614 (0.1%)
2	B	0.17	0/34511	0.45	29/46614 (0.1%)
2	C	0.17	0/34511	0.45	29/46614 (0.1%)
2	D	0.17	0/34511	0.45	29/46614 (0.1%)
All	All	0.17	0/141380	0.45	116/190948 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	A	0	3
2	B	0	3
2	C	0	3
2	D	0	3
All	All	0	12

There are no bond length outliers.

All (116) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	4242	ARG	CA-CB-CG	9.88	133.86	114.10
2	C	4242	ARG	CA-CB-CG	9.88	133.86	114.10
2	D	4242	ARG	CA-CB-CG	9.87	133.85	114.10
2	B	4242	ARG	CA-CB-CG	9.86	133.81	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	2800	LEU	CA-CB-CG	8.40	145.71	116.30
2	D	2800	LEU	CA-CB-CG	8.40	145.71	116.30
2	B	2800	LEU	CA-CB-CG	8.40	145.70	116.30
2	A	2800	LEU	CA-CB-CG	8.40	145.69	116.30
2	C	4052	MET	CB-CG-SD	8.20	137.29	112.70
2	A	4052	MET	CB-CG-SD	8.19	137.28	112.70
2	B	4052	MET	CB-CG-SD	8.19	137.26	112.70
2	D	4052	MET	CB-CG-SD	8.18	137.25	112.70
2	C	3719	MET	CB-CG-SD	7.93	136.49	112.70
2	B	3719	MET	CB-CG-SD	7.92	136.46	112.70
2	A	3719	MET	CB-CG-SD	7.92	136.45	112.70
2	D	3719	MET	CB-CG-SD	7.91	136.43	112.70
2	D	1946	GLU	CA-CB-CG	7.44	128.97	114.10
2	B	1946	GLU	CA-CB-CG	7.42	128.95	114.10
2	A	1946	GLU	CA-CB-CG	7.42	128.93	114.10
2	C	1946	GLU	CA-CB-CG	7.40	128.90	114.10
2	B	1564	MET	CB-CG-SD	7.31	134.63	112.70
2	D	1564	MET	CB-CG-SD	7.31	134.62	112.70
2	A	1564	MET	CB-CG-SD	7.30	134.59	112.70
2	C	1564	MET	CB-CG-SD	7.28	134.55	112.70
2	C	2848	TYR	CA-CB-CG	7.25	126.95	113.90
2	A	2848	TYR	CA-CB-CG	7.24	126.92	113.90
2	D	2848	TYR	CA-CB-CG	7.23	126.91	113.90
2	B	2848	TYR	CA-CB-CG	7.22	126.90	113.90
2	B	3246	MET	CB-CG-SD	7.19	134.27	112.70
2	C	3246	MET	CB-CG-SD	7.19	134.27	112.70
2	A	3246	MET	CB-CG-SD	7.19	134.27	112.70
2	D	3246	MET	CB-CG-SD	7.18	134.24	112.70
2	B	56	LYS	CB-CG-CD	6.86	127.07	111.30
2	C	56	LYS	CB-CG-CD	6.86	127.07	111.30
2	A	56	LYS	CB-CG-CD	6.85	127.05	111.30
2	D	56	LYS	CB-CG-CD	6.84	127.04	111.30
2	B	349	MET	CB-CG-SD	6.38	131.85	112.70
2	A	349	MET	CB-CG-SD	6.38	131.82	112.70
2	D	349	MET	CB-CG-SD	6.37	131.82	112.70
2	C	349	MET	CB-CG-SD	6.37	131.82	112.70
2	A	4814	MET	CB-CG-SD	6.21	131.34	112.70
2	B	4814	MET	CB-CG-SD	6.21	131.34	112.70
2	D	4814	MET	CB-CG-SD	6.21	131.33	112.70
2	C	4814	MET	CB-CG-SD	6.20	131.31	112.70
2	D	4052	MET	CA-CB-CG	6.10	126.30	114.10
2	B	4052	MET	CA-CB-CG	6.09	126.28	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	4052	MET	CA-CB-CG	6.09	126.28	114.10
2	C	4052	MET	CA-CB-CG	6.08	126.27	114.10
2	B	2844	MET	CB-CG-SD	5.89	130.37	112.70
2	A	2844	MET	CB-CG-SD	5.88	130.34	112.70
2	C	2844	MET	CB-CG-SD	5.88	130.33	112.70
2	D	2844	MET	CB-CG-SD	5.87	130.29	112.70
2	C	3246	MET	CA-CB-CG	5.82	125.75	114.10
2	D	3246	MET	CA-CB-CG	5.82	125.73	114.10
2	A	3246	MET	CA-CB-CG	5.81	125.72	114.10
2	B	3246	MET	CA-CB-CG	5.81	125.72	114.10
2	C	2835	ARG	CA-CB-CG	5.80	125.69	114.10
2	B	2835	ARG	CA-CB-CG	5.79	125.69	114.10
2	D	4647	LYS	N-CA-C	-5.78	106.13	112.72
2	A	4647	LYS	N-CA-C	-5.78	106.13	112.72
2	B	4647	LYS	N-CA-C	-5.77	106.14	112.72
2	A	2835	ARG	CA-CB-CG	5.76	125.62	114.10
2	D	2835	ARG	CA-CB-CG	5.75	125.60	114.10
2	C	4647	LYS	N-CA-C	-5.71	106.21	112.72
2	C	3046	MET	CB-CG-SD	5.59	129.47	112.70
2	D	3046	MET	CB-CG-SD	5.58	129.46	112.70
2	A	3046	MET	CB-CG-SD	5.58	129.45	112.70
2	D	3328	LYS	CB-CG-CD	5.57	124.11	111.30
2	B	3046	MET	CB-CG-SD	5.56	129.39	112.70
2	C	3328	LYS	CB-CG-CD	5.56	124.09	111.30
2	A	3328	LYS	CB-CG-CD	5.56	124.08	111.30
2	B	3328	LYS	CB-CG-CD	5.55	124.07	111.30
2	D	56	LYS	CG-CD-CE	5.48	123.91	111.30
2	A	56	LYS	CG-CD-CE	5.47	123.89	111.30
2	C	56	LYS	CG-CD-CE	5.46	123.87	111.30
2	B	56	LYS	CG-CD-CE	5.46	123.85	111.30
2	D	4818	TYR	CA-C-N	5.41	131.71	121.97
2	D	4818	TYR	C-N-CA	5.41	131.71	121.97
2	A	4818	TYR	CA-C-N	5.41	131.71	121.97
2	A	4818	TYR	C-N-CA	5.41	131.71	121.97
2	B	4818	TYR	CA-C-N	5.39	131.68	121.97
2	B	4818	TYR	C-N-CA	5.39	131.68	121.97
2	C	4818	TYR	CA-C-N	5.39	131.67	121.97
2	C	4818	TYR	C-N-CA	5.39	131.67	121.97
2	D	4242	ARG	N-CA-CB	-5.33	102.32	110.26
2	B	4242	ARG	N-CA-CB	-5.33	102.32	110.26
2	B	2835	ARG	CB-CG-CD	5.32	123.55	111.30
2	C	4242	ARG	N-CA-CB	-5.32	102.33	110.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	2835	ARG	CB-CG-CD	5.32	123.53	111.30
2	C	2835	ARG	CB-CG-CD	5.32	123.53	111.30
2	A	4242	ARG	N-CA-CB	-5.31	102.34	110.26
2	D	2835	ARG	CB-CG-CD	5.31	123.51	111.30
2	C	1421	MET	CB-CG-SD	5.29	128.58	112.70
2	A	1421	MET	CB-CG-SD	5.29	128.57	112.70
2	B	1421	MET	CB-CG-SD	5.29	128.57	112.70
2	D	1421	MET	CB-CG-SD	5.28	128.55	112.70
2	B	3719	MET	CA-CB-CG	5.26	124.62	114.10
2	D	3719	MET	CA-CB-CG	5.26	124.62	114.10
2	A	3719	MET	CA-CB-CG	5.25	124.61	114.10
2	B	4052	MET	N-CA-CB	5.23	117.74	109.94
2	C	3719	MET	CA-CB-CG	5.22	124.55	114.10
2	D	2848	TYR	N-CA-CB	-5.22	101.56	110.33
2	B	2848	TYR	N-CA-CB	-5.22	101.56	110.33
2	A	2848	TYR	N-CA-CB	-5.21	101.57	110.33
2	C	4052	MET	N-CA-CB	5.21	117.70	109.94
2	A	4052	MET	N-CA-CB	5.21	117.70	109.94
2	D	4052	MET	N-CA-CB	5.21	117.70	109.94
2	C	2848	TYR	N-CA-CB	-5.19	101.60	110.33
2	A	2384	MET	CB-CG-SD	5.10	127.99	112.70
2	B	2384	MET	CB-CG-SD	5.09	127.97	112.70
2	C	2384	MET	CB-CG-SD	5.09	127.97	112.70
2	D	2384	MET	CB-CG-SD	5.08	127.95	112.70
2	B	2886	ARG	CA-CB-CG	5.06	124.22	114.10
2	D	2886	ARG	CA-CB-CG	5.05	124.20	114.10
2	A	2886	ARG	CA-CB-CG	5.05	124.20	114.10
2	C	2886	ARG	CA-CB-CG	5.05	124.19	114.10

There are no chirality outliers.

All (12) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	A	111	ARG	Sidechain
2	A	1614	ARG	Sidechain
2	A	4640	PHE	Peptide
2	B	111	ARG	Sidechain
2	B	1614	ARG	Sidechain
2	B	4640	PHE	Peptide
2	C	111	ARG	Sidechain
2	C	1614	ARG	Sidechain
2	C	4640	PHE	Peptide

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Mol	Chain	Res	Type	Group
2	D	111	ARG	Sidechain
2	D	1614	ARG	Sidechain
2	D	4640	PHE	Peptide

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	E	818	0	821	12	0
1	F	818	0	821	14	0
1	G	818	0	821	17	0
1	H	818	0	821	20	0
2	A	33771	0	33453	922	0
2	B	33771	0	33453	904	0
2	C	33771	0	33453	892	0
2	D	33771	0	33453	930	0
3	A	1	0	0	0	0
3	B	1	0	0	0	0
3	C	1	0	0	0	0
3	D	1	0	0	0	0
4	A	62	0	24	5	0
4	B	62	0	24	5	0
4	C	62	0	24	5	0
4	D	62	0	24	5	0
5	A	1	0	0	1	0
5	B	1	0	0	1	0
5	C	1	0	0	1	0
5	D	1	0	0	1	0
6	A	11	0	4	0	0
6	B	11	0	4	0	0
6	C	11	0	4	0	0
6	D	11	0	4	0	0
All	All	138656	0	137208	3619	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 13.

All (3619) 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)
2:B:4248:LEU:HB3	2:C:4707:MET:HE1	1.28	1.06
2:C:2844:MET:O	2:C:2848:TYR:HB2	1.61	1.01
2:A:2844:MET:O	2:A:2848:TYR:HB2	1.61	1.00
2:D:2844:MET:O	2:D:2848:TYR:HB2	1.61	0.99
2:B:2844:MET:O	2:B:2848:TYR:HB2	1.61	0.99
2:A:143:LEU:HD21	2:D:2325:ILE:HD11	1.44	0.99
2:A:4790:ARG:HH12	2:D:4557:VAL:HG21	1.32	0.93
2:A:2859:GLU:OE1	2:A:2863:LYS:NZ	2.02	0.93
2:A:4707:MET:HE2	2:D:4249:ARG:HG2	1.51	0.93
2:D:2859:GLU:OE1	2:D:2863:LYS:NZ	2.02	0.93
2:B:2859:GLU:OE1	2:B:2863:LYS:NZ	2.02	0.92
2:C:2859:GLU:OE1	2:C:2863:LYS:NZ	2.02	0.92
2:B:810:GLU:HG2	2:B:1614:ARG:NH2	1.86	0.91
2:D:810:GLU:HG2	2:D:1614:ARG:NH2	1.86	0.91
2:C:3328:LYS:HE3	2:C:3328:LYS:HA	1.53	0.90
2:A:1688:ALA:HA	2:A:1694:MET:HE1	1.53	0.90
2:A:4941:TRP:CD1	2:A:4945:GLN:HE22	1.90	0.90
2:A:810:GLU:HG2	2:A:1614:ARG:NH2	1.86	0.90
2:A:1498:GLN:HB2	2:D:2798:MET:SD	2.11	0.90
2:D:1688:ALA:HA	2:D:1694:MET:HE1	1.53	0.90
2:C:810:GLU:HG2	2:C:1614:ARG:NH2	1.86	0.90
2:B:1688:ALA:HA	2:B:1694:MET:HE1	1.53	0.90
2:B:4941:TRP:CD1	2:B:4945:GLN:HE22	1.90	0.89
2:B:3328:LYS:HA	2:B:3328:LYS:HE3	1.53	0.89
2:D:4941:TRP:CD1	2:D:4945:GLN:HE22	1.90	0.89
2:C:4941:TRP:CD1	2:C:4945:GLN:HE22	1.90	0.89
2:C:1688:ALA:HA	2:C:1694:MET:HE1	1.53	0.88
2:D:2879:ALA:O	2:D:2886:ARG:NH2	2.06	0.88
2:D:3328:LYS:HA	2:D:3328:LYS:HE3	1.53	0.88
2:A:3328:LYS:HA	2:A:3328:LYS:HE3	1.53	0.87
2:B:2879:ALA:O	2:B:2886:ARG:NH2	2.06	0.87
2:C:2879:ALA:O	2:C:2886:ARG:NH2	2.06	0.87
2:A:2879:ALA:O	2:A:2886:ARG:NH2	2.06	0.87
2:D:810:GLU:HG2	2:D:1614:ARG:HH22	1.40	0.86
2:D:189:GLU:HB3	2:C:2326:ARG:HH12	1.38	0.86
2:B:1498:GLN:OE1	2:B:1500:ARG:NH1	2.09	0.86
2:A:810:GLU:HG2	2:A:1614:ARG:HH22	1.40	0.86
2:C:1498:GLN:OE1	2:C:1500:ARG:NH1	2.09	0.85
2:A:1498:GLN:OE1	2:A:1500:ARG:NH1	2.09	0.85
2:C:810:GLU:HG2	2:C:1614:ARG:HH22	1.40	0.85
2:D:1498:GLN:OE1	2:D:1500:ARG:NH1	2.09	0.84
2:B:810:GLU:HG2	2:B:1614:ARG:HH22	1.40	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:4863:GLN:HE21	2:C:4860:ALA:HB2	1.41	0.84
2:B:2129:LEU:HB3	2:B:2142:MET:HE1	1.60	0.83
2:D:2129:LEU:HB3	2:D:2142:MET:HE1	1.60	0.83
2:D:2848:TYR:OH	2:D:2888:LYS:NZ	2.12	0.83
2:A:2848:TYR:OH	2:A:2888:LYS:NZ	2.12	0.83
2:A:4248:LEU:HB3	2:B:4707:MET:HE1	1.61	0.82
2:A:2129:LEU:HB3	2:A:2142:MET:HE1	1.60	0.82
2:C:2129:LEU:HB3	2:C:2142:MET:HE1	1.60	0.81
2:B:2848:TYR:OH	2:B:2888:LYS:NZ	2.12	0.81
2:D:2734:MET:HE1	2:D:2825:ALA:HB3	1.64	0.80
2:B:2734:MET:HE1	2:B:2825:ALA:HB3	1.64	0.80
2:C:2734:MET:HE1	2:C:2825:ALA:HB3	1.64	0.79
2:C:2848:TYR:OH	2:C:2888:LYS:NZ	2.12	0.79
2:D:2142:MET:HB2	2:D:2192:MET:HE1	1.65	0.79
2:A:2142:MET:HB2	2:A:2192:MET:HE1	1.65	0.79
2:A:2734:MET:HE1	2:A:2825:ALA:HB3	1.64	0.79
2:C:2142:MET:HB2	2:C:2192:MET:HE1	1.65	0.79
2:C:2592:LEU:HD22	2:C:2606:PRO:HB3	1.65	0.78
2:C:2793:ARG:O	2:C:2797:SER:OG	2.01	0.78
2:B:2793:ARG:O	2:B:2797:SER:OG	2.01	0.78
2:B:4279:MET:SD	2:C:4484:ILE:HD13	2.23	0.78
2:A:2592:LEU:HD22	2:A:2606:PRO:HB3	1.65	0.78
2:A:4279:MET:SD	2:B:4484:ILE:HD13	2.24	0.78
1:H:83:TYR:OH	2:D:1768:PHE:O	2.01	0.77
2:D:2592:LEU:HD22	2:D:2606:PRO:HB3	1.65	0.77
2:A:332:ARG:NH2	2:A:338:LEU:O	2.18	0.77
2:B:2142:MET:HB2	2:B:2192:MET:HE1	1.65	0.77
2:A:2793:ARG:O	2:A:2797:SER:OG	2.01	0.77
2:D:1421:MET:HE3	2:D:1421:MET:HA	1.67	0.77
2:B:332:ARG:NH2	2:B:338:LEU:O	2.18	0.77
2:A:143:LEU:HD11	2:D:2426:LEU:HD12	1.65	0.77
2:C:2593:VAL:HG22	2:C:2644:LEU:HB2	1.66	0.76
2:C:4818:TYR:O	2:C:4819:VAL:HG12	1.86	0.76
2:A:4818:TYR:O	2:A:4819:VAL:HG12	1.86	0.76
2:B:2593:VAL:HG22	2:B:2644:LEU:HB2	1.66	0.76
2:A:2593:VAL:HG22	2:A:2644:LEU:HB2	1.66	0.76
2:D:332:ARG:NH2	2:D:338:LEU:O	2.18	0.76
2:C:1421:MET:HA	2:C:1421:MET:HE3	1.67	0.76
2:D:4818:TYR:O	2:D:4819:VAL:HG12	1.86	0.76
2:B:1421:MET:HA	2:B:1421:MET:HE3	1.67	0.76
2:D:2593:VAL:HG22	2:D:2644:LEU:HB2	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2592:LEU:HD22	2:B:2606:PRO:HB3	1.65	0.75
2:C:332:ARG:NH2	2:C:338:LEU:O	2.18	0.75
2:B:3281:LEU:HD13	2:B:3284:ILE:HD11	1.69	0.75
2:A:3891:TYR:HA	2:B:76:ARG:HH22	1.50	0.75
2:D:2844:MET:HE3	2:D:2844:MET:HA	1.69	0.75
2:B:4818:TYR:O	2:B:4819:VAL:HG12	1.86	0.75
2:C:3281:LEU:HD13	2:C:3284:ILE:HD11	1.69	0.75
2:D:189:GLU:OE1	2:C:2326:ARG:NH2	2.19	0.75
2:C:2844:MET:HA	2:C:2844:MET:HE3	1.69	0.75
2:B:2844:MET:HA	2:B:2844:MET:HE3	1.69	0.75
2:A:3281:LEU:HD13	2:A:3284:ILE:HD11	1.69	0.74
2:A:1421:MET:HE3	2:A:1421:MET:HA	1.67	0.74
2:D:2793:ARG:O	2:D:2797:SER:OG	2.01	0.74
2:D:3281:LEU:HD13	2:D:3284:ILE:HD11	1.69	0.74
2:A:679:VAL:HA	2:A:800:VAL:HG12	1.70	0.74
2:B:3891:TYR:HA	2:C:76:ARG:HH22	1.53	0.74
2:C:1308:ILE:HD13	2:C:1445:TRP:HZ3	1.52	0.73
2:A:2844:MET:HE3	2:A:2844:MET:HA	1.69	0.73
2:B:1308:ILE:HD13	2:B:1445:TRP:HZ3	1.52	0.73
2:A:1308:ILE:HD13	2:A:1445:TRP:HZ3	1.52	0.73
2:B:3871:ILE:HG22	2:B:3935:LEU:HD21	1.71	0.73
2:B:679:VAL:HA	2:B:800:VAL:HG12	1.70	0.73
2:A:3152:ARG:HB3	2:A:3236:GLU:HG2	1.70	0.73
2:A:290:ARG:HH21	2:A:350:GLY:HA3	1.54	0.73
2:B:4569:GLU:HG3	2:B:4570:PRO:HD3	1.71	0.73
2:B:3152:ARG:HB3	2:B:3236:GLU:HG2	1.70	0.72
2:C:679:VAL:HA	2:C:800:VAL:HG12	1.70	0.72
1:H:26:HIS:HB2	1:H:105:LEU:HD11	1.71	0.72
2:A:4626:ILE:HD13	2:D:4241:VAL:HG22	1.71	0.72
2:C:3871:ILE:HG22	2:C:3935:LEU:HD21	1.71	0.72
2:D:132:CYS:HG	2:D:187:SER:HG	1.37	0.72
2:A:1564:MET:HE3	2:A:1565:PRO:HD2	1.72	0.72
2:A:3871:ILE:HG22	2:A:3935:LEU:HD21	1.71	0.72
1:F:26:HIS:HB2	1:F:105:LEU:HD11	1.72	0.72
2:D:4569:GLU:HG3	2:D:4570:PRO:HD3	1.71	0.72
2:B:2114:GLU:O	2:B:2118:ASN:ND2	2.23	0.72
2:D:1308:ILE:HD13	2:D:1445:TRP:HZ3	1.52	0.72
1:E:26:HIS:HB2	1:E:105:LEU:HD11	1.71	0.72
2:B:290:ARG:HH21	2:B:350:GLY:HA3	1.54	0.72
2:B:3972:MET:HE2	2:B:4094:ILE:HD13	1.72	0.72
2:C:290:ARG:HH21	2:C:350:GLY:HA3	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:3972:MET:HE2	2:C:4094:ILE:HD13	1.72	0.72
2:A:1500:ARG:HG3	2:A:1505:LEU:HD22	1.72	0.72
2:B:943:LEU:HD21	2:B:999:LEU:HD11	1.72	0.72
2:A:2114:GLU:O	2:A:2118:ASN:ND2	2.23	0.71
2:A:2539:GLU:HA	2:A:2584:MET:HE1	1.72	0.71
2:D:679:VAL:HA	2:D:800:VAL:HG12	1.70	0.71
1:G:26:HIS:HB2	1:G:105:LEU:HD11	1.72	0.71
2:D:943:LEU:HD21	2:D:999:LEU:HD11	1.72	0.71
2:A:943:LEU:HD21	2:A:999:LEU:HD11	1.72	0.71
2:C:3152:ARG:HB3	2:C:3236:GLU:HG2	1.70	0.71
2:D:290:ARG:HH21	2:D:350:GLY:HA3	1.54	0.71
2:B:2539:GLU:HA	2:B:2584:MET:HE1	1.73	0.71
2:A:4569:GLU:HG3	2:A:4570:PRO:HD3	1.71	0.71
2:D:1564:MET:HE3	2:D:1565:PRO:HD2	1.72	0.71
2:D:2114:GLU:O	2:D:2118:ASN:ND2	2.23	0.71
2:D:3152:ARG:HB3	2:D:3236:GLU:HG2	1.70	0.71
2:D:1500:ARG:HG3	2:D:1505:LEU:HD22	1.71	0.71
2:C:2539:GLU:HA	2:C:2584:MET:HE1	1.72	0.71
2:C:4569:GLU:HG3	2:C:4570:PRO:HD3	1.71	0.71
2:D:3871:ILE:HG22	2:D:3935:LEU:HD21	1.71	0.71
2:B:4863:GLN:HE21	2:C:4860:ALA:CB	2.02	0.71
2:C:943:LEU:HD21	2:C:999:LEU:HD11	1.72	0.71
2:C:1500:ARG:HG3	2:C:1505:LEU:HD22	1.72	0.71
2:D:1549:SER:OG	2:C:2830:ASN:OD1	2.02	0.71
2:B:1564:MET:HE3	2:B:1565:PRO:HD2	1.72	0.70
2:A:3972:MET:HE2	2:A:4094:ILE:HD13	1.72	0.70
2:A:4941:TRP:NE1	2:A:4945:GLN:HE22	1.89	0.70
2:D:3972:MET:HE2	2:D:4094:ILE:HD13	1.71	0.70
2:C:2114:GLU:O	2:C:2118:ASN:ND2	2.23	0.70
2:A:3184:TYR:HD2	2:A:3201:VAL:HG22	1.57	0.70
2:D:3965:ILE:HD11	2:D:4086:ARG:HH21	1.57	0.70
2:B:3184:TYR:HD2	2:B:3201:VAL:HG22	1.56	0.70
2:B:4248:LEU:HB3	2:C:4707:MET:CE	2.15	0.70
2:C:3246:MET:HE1	2:C:3268:LEU:HD22	1.74	0.70
2:A:142:LYS:NZ	2:D:2426:LEU:O	2.24	0.70
2:A:1748:LEU:HD22	2:A:1843:LEU:HD13	1.74	0.70
2:D:2539:GLU:HA	2:D:2584:MET:HE1	1.72	0.70
2:B:1500:ARG:HG3	2:B:1505:LEU:HD22	1.72	0.70
2:B:3965:ILE:HD11	2:B:4086:ARG:HH21	1.57	0.70
2:C:905:GLY:HA3	2:C:914:GLN:HB3	1.74	0.70
2:A:2389:MET:HE1	2:A:2460:PHE:HA	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:4941:TRP:NE1	2:D:4945:GLN:HE22	1.89	0.70
2:D:2119:LEU:HB2	2:D:2152:ASN:HD22	1.57	0.70
2:C:1564:MET:HE3	2:C:1565:PRO:HD2	1.71	0.70
2:C:4941:TRP:NE1	2:C:4945:GLN:HE22	1.89	0.70
2:A:3965:ILE:HD11	2:A:4086:ARG:HH21	1.57	0.69
2:D:375:GLN:HG3	2:D:377:VAL:HG22	1.74	0.69
2:C:2868:HIS:HB3	2:C:2871:LEU:HB2	1.74	0.69
2:B:3246:MET:HE1	2:B:3268:LEU:HD22	1.74	0.69
2:A:1299:ILE:HD13	2:A:1546:GLN:HB2	1.74	0.69
2:D:886:ALA:HB1	2:D:929:ARG:HH22	1.58	0.69
2:D:1748:LEU:HD22	2:D:1843:LEU:HD13	1.74	0.69
2:B:375:GLN:HG3	2:B:377:VAL:HG22	1.74	0.69
2:C:375:GLN:HG3	2:C:377:VAL:HG22	1.74	0.69
2:A:375:GLN:HG3	2:A:377:VAL:HG22	1.74	0.69
2:B:905:GLY:HA3	2:B:914:GLN:HB3	1.74	0.69
2:B:1732:GLU:HB3	2:B:1753:LEU:HD21	1.74	0.69
2:B:2389:MET:HE1	2:B:2460:PHE:HA	1.74	0.69
2:C:2682:GLU:HB3	2:C:2919:LYS:HE3	1.75	0.69
2:A:2570:GLU:HG2	2:A:2605:MET:HG3	1.75	0.69
2:D:2570:GLU:HG2	2:D:2605:MET:HG3	1.75	0.69
2:B:886:ALA:HB1	2:B:929:ARG:HH22	1.57	0.69
2:C:2119:LEU:HB2	2:C:2152:ASN:HD22	1.57	0.69
2:A:886:ALA:HB1	2:A:929:ARG:HH22	1.57	0.69
2:A:4790:ARG:HH22	2:D:4557:VAL:HG11	1.56	0.69
2:B:2119:LEU:HB2	2:B:2152:ASN:HD22	1.57	0.69
2:B:2570:GLU:HG2	2:B:2605:MET:HG3	1.75	0.69
2:C:886:ALA:HB1	2:C:929:ARG:HH22	1.58	0.69
2:A:905:GLY:HA3	2:A:914:GLN:HB3	1.74	0.69
2:A:1732:GLU:HB3	2:A:1753:LEU:HD21	1.75	0.69
2:B:1748:LEU:HD22	2:B:1843:LEU:HD13	1.74	0.69
2:C:2570:GLU:HG2	2:C:2605:MET:HG3	1.75	0.69
2:D:2682:GLU:HB3	2:D:2919:LYS:HE3	1.75	0.69
2:B:2868:HIS:HB3	2:B:2871:LEU:HB2	1.74	0.69
2:C:3184:TYR:HD2	2:C:3201:VAL:HG22	1.57	0.69
2:C:3965:ILE:HD11	2:C:4086:ARG:HH21	1.57	0.69
2:A:2868:HIS:HB3	2:A:2871:LEU:HB2	1.74	0.68
2:A:3246:MET:HE1	2:A:3268:LEU:HD22	1.74	0.68
2:D:1732:GLU:HB3	2:D:1753:LEU:HD21	1.75	0.68
2:D:3184:TYR:HD2	2:D:3201:VAL:HG22	1.57	0.68
2:C:1299:ILE:HD13	2:C:1546:GLN:HB2	1.74	0.68
2:D:1299:ILE:HD13	2:D:1546:GLN:HB2	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1564:MET:CE	2:A:1565:PRO:HD2	2.24	0.68
2:D:1564:MET:CE	2:D:1565:PRO:HD2	2.24	0.68
2:D:2389:MET:HE1	2:D:2460:PHE:HA	1.74	0.68
2:B:4941:TRP:NE1	2:B:4945:GLN:HE22	1.89	0.68
2:A:1129:GLY:HA3	2:A:1145:TRP:HB3	1.75	0.68
2:D:3246:MET:HE1	2:D:3268:LEU:HD22	1.74	0.68
2:B:1299:ILE:HD13	2:B:1546:GLN:HB2	1.74	0.68
2:A:132:CYS:SG	2:A:187:SER:OG	2.52	0.68
2:A:2119:LEU:HB2	2:A:2152:ASN:HD22	1.57	0.68
2:C:1748:LEU:HD22	2:C:1843:LEU:HD13	1.74	0.68
2:D:3173:THR:HB	2:D:3201:VAL:HG12	1.76	0.68
2:C:2389:MET:HE1	2:C:2460:PHE:HA	1.74	0.68
2:D:1129:GLY:HA3	2:D:1145:TRP:HB3	1.75	0.68
2:C:63:SER:OG	2:C:276:ARG:NH1	2.27	0.68
2:C:1732:GLU:HB3	2:C:1753:LEU:HD21	1.75	0.68
2:A:2682:GLU:HB3	2:A:2919:LYS:HE3	1.75	0.68
2:D:63:SER:OG	2:D:276:ARG:NH1	2.27	0.68
2:D:3922:GLU:OE1	5:D:5003:CA:CA	1.71	0.68
2:B:63:SER:OG	2:B:276:ARG:NH1	2.27	0.68
2:B:1564:MET:CE	2:B:1565:PRO:HD2	2.24	0.68
2:C:3922:GLU:OE1	5:C:5003:CA:CA	1.71	0.68
2:A:3173:THR:HB	2:A:3201:VAL:HG12	1.76	0.67
2:D:905:GLY:HA3	2:D:914:GLN:HB3	1.74	0.67
2:B:4116:GLN:HA	2:B:4119:LEU:HD12	1.77	0.67
2:A:63:SER:OG	2:A:276:ARG:NH1	2.27	0.67
2:C:2834:SER:OG	2:C:2836:ASP:OD1	2.13	0.67
2:C:4116:GLN:HA	2:C:4119:LEU:HD12	1.77	0.67
2:A:4116:GLN:HA	2:A:4119:LEU:HD12	1.77	0.67
2:D:2868:HIS:HB3	2:D:2871:LEU:HB2	1.74	0.67
2:B:2682:GLU:HB3	2:B:2919:LYS:HE3	1.75	0.67
2:C:132:CYS:SG	2:C:187:SER:OG	2.52	0.67
2:A:4200:MET:HE1	2:A:4923:MET:HE1	1.76	0.67
2:D:3231:MET:HE1	2:D:3234:VAL:H	1.60	0.67
2:D:4116:GLN:HA	2:D:4119:LEU:HD12	1.77	0.67
2:D:132:CYS:SG	2:D:187:SER:OG	2.52	0.67
2:C:1129:GLY:HA3	2:C:1145:TRP:HB3	1.75	0.67
2:A:3922:GLU:OE1	5:A:5003:CA:CA	1.71	0.67
2:B:2194:ALA:HA	2:B:2237:SER:HB3	1.77	0.67
2:C:1564:MET:CE	2:C:1565:PRO:HD2	2.24	0.67
2:C:4200:MET:HE1	2:C:4923:MET:HE1	1.76	0.67
2:A:2827:ASP:OD2	2:A:2830:ASN:ND2	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3282:LYS:HA	2:D:3285:TYR:CE1	2.31	0.66
2:C:2194:ALA:HA	2:C:2237:SER:HB3	1.77	0.66
2:C:3173:THR:HB	2:C:3201:VAL:HG12	1.76	0.66
2:C:3282:LYS:HA	2:C:3285:TYR:CE1	2.31	0.66
2:D:2827:ASP:OD2	2:D:2830:ASN:ND2	2.29	0.66
2:B:3922:GLU:OE1	5:B:5003:CA:CA	1.71	0.66
2:C:3231:MET:HE1	2:C:3234:VAL:H	1.60	0.66
2:D:2194:ALA:HA	2:D:2237:SER:HB3	1.77	0.66
2:B:1129:GLY:HA3	2:B:1145:TRP:HB3	1.75	0.66
2:B:2827:ASP:OD2	2:B:2830:ASN:ND2	2.29	0.66
2:C:2760:TYR:HA	2:C:2763:LEU:HD13	1.78	0.66
2:B:3173:THR:HB	2:B:3201:VAL:HG12	1.76	0.66
2:B:3282:LYS:HA	2:B:3285:TYR:CE1	2.31	0.66
2:C:2827:ASP:OD2	2:C:2830:ASN:ND2	2.28	0.66
2:A:2194:ALA:HA	2:A:2237:SER:HB3	1.77	0.66
2:A:2834:SER:OG	2:A:2836:ASP:OD1	2.13	0.66
2:D:2327:ARG:NH1	2:D:2327:ARG:HB3	2.11	0.66
2:D:4707:MET:HE1	2:C:4248:LEU:HB3	1.77	0.66
2:B:2760:TYR:HA	2:B:2763:LEU:HD13	1.78	0.66
2:A:414:ARG:HH11	2:A:414:ARG:HG3	1.61	0.66
2:A:2229:LEU:HD23	2:A:2297:ARG:HH11	1.60	0.66
2:D:4200:MET:HE1	2:D:4923:MET:HE1	1.76	0.66
2:B:4035:TYR:HE1	2:B:4050:LYS:HE2	1.61	0.66
2:C:3215:MET:HE1	2:C:3276:LEU:HB2	1.78	0.66
2:B:3124:GLU:OE2	2:B:3187:LYS:NZ	2.27	0.66
2:B:4200:MET:HE1	2:B:4923:MET:HE1	1.76	0.66
2:C:2065:THR:HG23	2:C:2066:MET:HE2	1.77	0.66
2:A:2241:ASP:OD2	2:A:2297:ARG:NH2	2.29	0.66
2:B:1946:GLU:OE1	2:B:1947:VAL:N	2.29	0.66
2:B:2065:THR:HG23	2:B:2066:MET:HE2	1.77	0.66
2:A:2327:ARG:NH1	2:A:2327:ARG:HB3	2.11	0.66
2:A:3282:LYS:HA	2:A:3285:TYR:CE1	2.31	0.66
2:A:4035:TYR:HE1	2:A:4050:LYS:HE2	1.61	0.66
2:B:2703:PRO:HB2	2:B:2854:LYS:HD2	1.78	0.66
2:B:2834:SER:OG	2:B:2836:ASP:OD1	2.13	0.66
2:C:2229:LEU:HD23	2:C:2297:ARG:HH11	1.60	0.66
2:C:2327:ARG:HB3	2:C:2327:ARG:NH1	2.11	0.66
2:D:414:ARG:HH11	2:D:414:ARG:HG3	1.61	0.65
2:B:414:ARG:HG3	2:B:414:ARG:HH11	1.61	0.65
2:A:2703:PRO:HB2	2:A:2854:LYS:HD2	1.78	0.65
2:D:2834:SER:OG	2:D:2836:ASP:OD1	2.13	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3127:GLN:HB3	2:A:3183:ILE:HD12	1.78	0.65
2:D:2241:ASP:OD2	2:D:2297:ARG:NH2	2.29	0.65
2:C:414:ARG:HH11	2:C:414:ARG:HG3	1.61	0.65
2:C:3778:LEU:HD13	2:C:3854:PHE:HD1	1.62	0.65
2:A:188:SER:OG	2:A:190:ARG:NH1	2.30	0.65
2:D:1946:GLU:OE1	2:D:1947:VAL:N	2.29	0.65
2:D:2760:TYR:HA	2:D:2763:LEU:HD13	1.78	0.65
2:D:3215:MET:HE1	2:D:3276:LEU:HB2	1.78	0.65
2:B:3215:MET:HE1	2:B:3276:LEU:HB2	1.78	0.65
2:A:1946:GLU:OE1	2:A:1947:VAL:N	2.29	0.65
2:A:2065:THR:HG23	2:A:2066:MET:HE2	1.77	0.65
2:D:3999:MET:HE1	2:D:4101:LEU:HD11	1.78	0.65
2:B:4262:LYS:HD3	2:B:4265:LYS:HZ1	1.60	0.65
2:C:2241:ASP:OD2	2:C:2297:ARG:NH2	2.29	0.65
2:A:2760:TYR:HA	2:A:2763:LEU:HD13	1.78	0.65
2:D:2229:LEU:HD23	2:D:2297:ARG:HH11	1.60	0.65
2:D:4019:MET:HE1	2:D:4065:PHE:HD2	1.62	0.65
2:B:3231:MET:HE1	2:B:3234:VAL:H	1.60	0.65
2:C:4266:LYS:O	2:C:4270:LYS:HG2	1.97	0.65
2:D:3127:GLN:HB3	2:D:3183:ILE:HD12	1.78	0.65
2:B:188:SER:OG	2:B:190:ARG:NH1	2.30	0.65
2:C:1946:GLU:OE1	2:C:1947:VAL:N	2.29	0.65
2:D:1793:GLN:NE2	2:D:1797:GLU:OE2	2.30	0.65
2:D:4035:TYR:HE1	2:D:4050:LYS:HE2	1.61	0.65
2:B:2123:LEU:HD13	2:B:2167:MET:HG2	1.79	0.65
2:B:2229:LEU:HD23	2:B:2297:ARG:HH11	1.60	0.65
2:A:4019:MET:HE1	2:A:4065:PHE:HD2	1.62	0.65
2:A:4266:LYS:O	2:A:4270:LYS:HG2	1.97	0.65
2:B:2241:ASP:OD2	2:B:2297:ARG:NH2	2.29	0.65
2:B:3225:GLY:O	2:B:3227:ARG:NH1	2.30	0.65
2:C:4035:TYR:HE1	2:C:4050:LYS:HE2	1.61	0.65
2:A:137:ARG:NH1	2:A:139:SER:OG	2.30	0.65
2:A:3225:GLY:O	2:A:3227:ARG:NH1	2.30	0.65
2:D:986:ILE:HG12	2:D:1058:LEU:HB3	1.78	0.65
2:B:137:ARG:NH1	2:B:139:SER:OG	2.30	0.65
2:B:1793:GLN:NE2	2:B:1797:GLU:OE2	2.30	0.65
2:B:3999:MET:HE1	2:B:4101:LEU:HD11	1.78	0.65
2:C:2545:ILE:HG12	2:C:2580:LEU:HD21	1.79	0.65
2:B:2327:ARG:NH1	2:B:2327:ARG:HB3	2.11	0.64
2:C:4262:LYS:HD3	2:C:4265:LYS:HZ1	1.62	0.64
2:A:1464:THR:HG22	2:A:1483:SER:HB2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:769:ARG:HG2	2:D:774:PRO:HA	1.79	0.64
2:D:3225:GLY:O	2:D:3227:ARG:NH1	2.30	0.64
2:A:3215:MET:HE1	2:A:3276:LEU:HB2	1.78	0.64
2:D:1464:THR:HG22	2:D:1483:SER:HB2	1.79	0.64
2:B:4266:LYS:O	2:B:4270:LYS:HG2	1.97	0.64
2:C:300:VAL:O	2:C:420:ARG:NH1	2.28	0.64
2:C:3127:GLN:HB3	2:C:3183:ILE:HD12	1.78	0.64
2:A:3124:GLU:OE2	2:A:3187:LYS:NZ	2.27	0.64
2:A:3231:MET:HE1	2:A:3234:VAL:H	1.60	0.64
2:B:986:ILE:HG12	2:B:1058:LEU:HB3	1.78	0.64
2:C:4019:MET:HE1	2:C:4065:PHE:HD2	1.62	0.64
2:D:4262:LYS:HD3	2:D:4265:LYS:HZ1	1.60	0.64
2:B:3127:GLN:HB3	2:B:3183:ILE:HD12	1.78	0.64
2:B:4019:MET:HE1	2:B:4065:PHE:HD2	1.62	0.64
2:C:2123:LEU:HD13	2:C:2167:MET:HG2	1.79	0.64
2:C:3225:GLY:O	2:C:3227:ARG:NH1	2.30	0.64
2:D:188:SER:OG	2:D:190:ARG:NH1	2.30	0.64
2:D:2473:ASP:OD2	2:D:2530:ARG:NH2	2.31	0.64
2:C:2736:LYS:HZ2	2:C:2754:GLN:HG2	1.61	0.64
2:A:1793:GLN:NE2	2:A:1797:GLU:OE2	2.30	0.64
2:A:2545:ILE:HG12	2:A:2580:LEU:HD21	1.79	0.64
2:D:2187:ILE:HG13	2:D:2227:VAL:HG13	1.79	0.64
2:D:3639:LYS:HA	2:D:4683:ARG:HH22	1.63	0.64
2:D:3778:LEU:HD13	2:D:3854:PHE:HD1	1.62	0.64
2:A:2187:ILE:HG13	2:A:2227:VAL:HG13	1.79	0.64
2:A:3639:LYS:HA	2:A:4683:ARG:HH22	1.63	0.64
2:A:3999:MET:HE1	2:A:4101:LEU:HD11	1.78	0.64
2:D:2545:ILE:HG12	2:D:2580:LEU:HD21	1.79	0.64
2:D:2703:PRO:HB2	2:D:2854:LYS:HD2	1.78	0.64
2:D:4266:LYS:O	2:D:4270:LYS:HG2	1.97	0.64
2:C:1464:THR:HG22	2:C:1483:SER:HB2	1.79	0.64
2:C:4640:PHE:CD2	2:C:4641:PRO:HD3	2.33	0.64
2:A:4626:ILE:CD1	2:D:4241:VAL:HG22	2.28	0.64
2:D:2065:THR:HG23	2:D:2066:MET:HE2	1.77	0.64
2:B:132:CYS:SG	2:B:187:SER:OG	2.52	0.64
2:B:4120:GLU:HA	2:B:4123:GLU:HG2	1.80	0.64
2:C:2187:ILE:HG13	2:C:2227:VAL:HG13	1.79	0.64
2:C:2703:PRO:HB2	2:C:2854:LYS:HD2	1.79	0.64
2:C:3639:LYS:HA	2:C:4683:ARG:HH22	1.63	0.64
2:A:3778:LEU:HD13	2:A:3854:PHE:HD1	1.62	0.64
2:D:137:ARG:NH1	2:D:139:SER:OG	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1502:ASN:OD1	2:D:1503:ASN:N	2.31	0.64
2:C:137:ARG:NH1	2:C:139:SER:OG	2.30	0.64
2:C:188:SER:OG	2:C:190:ARG:NH1	2.30	0.64
2:C:902:TRP:HD1	2:C:913:ARG:HA	1.62	0.64
2:A:2378:GLU:OE2	2:A:2457:SER:OG	2.17	0.63
2:A:4120:GLU:HA	2:A:4123:GLU:HG2	1.80	0.63
2:B:2473:ASP:OD2	2:B:2530:ARG:NH2	2.31	0.63
2:B:3639:LYS:HA	2:B:4683:ARG:HH22	1.63	0.63
2:B:4640:PHE:CD2	2:B:4641:PRO:HD3	2.33	0.63
2:C:2500:ALA:O	2:C:2554:ARG:NH1	2.32	0.63
2:A:4262:LYS:HD3	2:A:4265:LYS:HZ1	1.62	0.63
2:C:1166:VAL:HG21	2:C:1168:MET:HE2	1.81	0.63
2:C:1502:ASN:OD1	2:C:1503:ASN:N	2.31	0.63
2:A:769:ARG:HG2	2:A:774:PRO:HA	1.79	0.63
2:A:2123:LEU:HD13	2:A:2167:MET:HG2	1.79	0.63
2:D:2123:LEU:HD13	2:D:2167:MET:HG2	1.79	0.63
2:B:1166:VAL:HG21	2:B:1168:MET:HE2	1.81	0.63
2:B:2187:ILE:HG13	2:B:2227:VAL:HG13	1.79	0.63
2:C:769:ARG:HG2	2:C:774:PRO:HA	1.79	0.63
2:C:2473:ASP:OD2	2:C:2530:ARG:NH2	2.31	0.63
2:A:611:LEU:HD22	2:A:1660:LEU:HD22	1.81	0.63
2:B:3255:GLU:OE2	2:B:3270:SER:N	2.32	0.63
2:A:1166:VAL:HG21	2:A:1168:MET:HE2	1.81	0.63
2:A:4640:PHE:CD2	2:A:4641:PRO:HD3	2.33	0.63
2:D:3255:GLU:OE2	2:D:3270:SER:N	2.32	0.63
2:B:1937:GLN:NE2	2:B:3608:LEU:O	2.30	0.63
2:C:3999:MET:HE1	2:C:4101:LEU:HD11	1.78	0.63
2:A:2473:ASP:OD2	2:A:2530:ARG:NH2	2.31	0.63
2:D:4640:PHE:CD2	2:D:4641:PRO:HD3	2.33	0.63
2:B:769:ARG:HG2	2:B:774:PRO:HA	1.79	0.63
2:B:3778:LEU:HD13	2:B:3854:PHE:HD1	1.62	0.63
2:A:986:ILE:HG12	2:A:1058:LEU:HB3	1.78	0.63
2:B:902:TRP:HD1	2:B:913:ARG:HA	1.62	0.63
2:B:1464:THR:HG22	2:B:1483:SER:HB2	1.79	0.63
2:A:865:ILE:O	2:A:1009:ARG:NH1	2.32	0.63
2:A:1502:ASN:OD1	2:A:1503:ASN:N	2.31	0.63
2:A:3255:GLU:OE2	2:A:3270:SER:N	2.32	0.63
2:D:611:LEU:HD22	2:D:1660:LEU:HD22	1.81	0.63
2:D:902:TRP:HD1	2:D:913:ARG:HA	1.62	0.63
2:D:1166:VAL:HG21	2:D:1168:MET:HE2	1.81	0.63
2:B:611:LEU:HD22	2:B:1660:LEU:HD22	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2545:ILE:HG12	2:B:2580:LEU:HD21	1.79	0.63
2:C:878:LEU:HD12	2:C:881:ILE:HD11	1.81	0.63
2:C:1793:GLN:NE2	2:C:1797:GLU:OE2	2.30	0.63
2:A:902:TRP:HD1	2:A:913:ARG:HA	1.62	0.63
2:A:2500:ALA:O	2:A:2554:ARG:NH1	2.32	0.63
2:A:2883:ALA:HA	2:A:2886:ARG:HE	1.64	0.63
2:D:1849:SER:HB2	2:D:2054:LYS:HD2	1.81	0.63
2:B:1502:ASN:OD1	2:B:1503:ASN:N	2.31	0.63
2:C:864:PRO:HB2	2:C:1009:ARG:HG3	1.80	0.63
2:C:865:ILE:O	2:C:1009:ARG:NH1	2.32	0.63
2:C:986:ILE:HG12	2:C:1058:LEU:HB3	1.78	0.63
2:A:864:PRO:HB2	2:A:1009:ARG:HG3	1.80	0.62
2:D:2378:GLU:OE2	2:D:2457:SER:OG	2.17	0.62
2:B:2384:MET:HA	2:B:2384:MET:HE3	1.81	0.62
2:B:4187:GLU:OE2	2:B:4947:ARG:NH2	2.32	0.62
2:C:1433:PHE:CD2	2:C:1551:ASN:HB3	2.34	0.62
2:C:3124:GLU:OE2	2:C:3187:LYS:NZ	2.27	0.62
2:D:864:PRO:HB2	2:D:1009:ARG:HG3	1.80	0.62
2:C:686:VAL:HG13	2:C:687:THR:HG23	1.81	0.62
2:C:4120:GLU:HA	2:C:4123:GLU:HG2	1.80	0.62
2:A:4187:GLU:OE2	2:A:4947:ARG:NH2	2.32	0.62
2:A:4776:VAL:HG22	2:D:4743:LEU:HD23	1.79	0.62
2:D:2384:MET:HA	2:D:2384:MET:HE3	1.81	0.62
2:D:2883:ALA:HA	2:D:2886:ARG:HE	1.64	0.62
2:B:1849:SER:HB2	2:B:2054:LYS:HD2	1.81	0.62
2:B:2500:ALA:O	2:B:2554:ARG:NH1	2.32	0.62
2:B:3149:GLU:HA	2:B:3152:ARG:HD2	1.81	0.62
2:C:3255:GLU:OE2	2:C:3270:SER:N	2.32	0.62
2:C:4187:GLU:OE2	2:C:4947:ARG:NH2	2.32	0.62
2:D:1433:PHE:CD2	2:D:1551:ASN:HB3	2.34	0.62
2:B:3178:HIS:HE1	2:B:3265:CYS:HA	1.65	0.62
2:B:3892:TYR:OH	2:B:3899:ASP:OD1	2.14	0.62
2:B:4191:ASN:OD1	2:B:4608:ARG:NH1	2.31	0.62
2:C:2384:MET:HE3	2:C:2384:MET:HA	1.81	0.62
2:A:878:LEU:HD12	2:A:881:ILE:HD11	1.81	0.62
2:A:2384:MET:HA	2:A:2384:MET:HE3	1.81	0.62
2:A:4238:ILE:O	2:A:4242:ARG:HB3	2.00	0.62
2:D:686:VAL:HG13	2:D:687:THR:HG23	1.81	0.62
2:D:2887:GLU:HA	2:D:2890:GLN:HG2	1.82	0.62
2:D:4238:ILE:O	2:D:4242:ARG:HB3	2.00	0.62
2:B:864:PRO:HB2	2:B:1009:ARG:HG3	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1433:PHE:CD2	2:B:1551:ASN:HB3	2.34	0.62
2:B:2887:GLU:HA	2:B:2890:GLN:HG2	1.82	0.62
2:C:1849:SER:HB2	2:C:2054:LYS:HD2	1.81	0.62
2:C:2378:GLU:OE2	2:C:2457:SER:OG	2.17	0.62
2:C:2797:SER:HA	2:C:2800:LEU:HD12	1.81	0.62
2:C:4658:GLY:HA2	2:C:4666:ILE:HG21	1.81	0.62
2:D:3149:GLU:HA	2:D:3152:ARG:HD2	1.81	0.62
2:B:2378:GLU:OE2	2:B:2457:SER:OG	2.17	0.62
2:B:4169:LYS:NZ	4:B:5002:ATP:O1A	2.32	0.62
2:C:3178:HIS:HE1	2:C:3265:CYS:HA	1.65	0.62
2:D:3042:ALA:HB3	2:D:3117:PHE:HB3	1.82	0.62
2:D:4187:GLU:OE2	2:D:4947:ARG:NH2	2.32	0.62
2:C:2883:ALA:HA	2:C:2886:ARG:HE	1.64	0.62
2:C:2887:GLU:HA	2:C:2890:GLN:HG2	1.82	0.62
2:C:3892:TYR:OH	2:C:3899:ASP:OD1	2.14	0.62
2:A:2887:GLU:HA	2:A:2890:GLN:HG2	1.82	0.62
2:D:865:ILE:O	2:D:1009:ARG:NH1	2.32	0.62
2:D:3124:GLU:OE2	2:D:3187:LYS:NZ	2.27	0.62
2:B:865:ILE:O	2:B:1009:ARG:NH1	2.32	0.62
2:A:686:VAL:HG13	2:A:687:THR:HG23	1.81	0.62
2:D:3178:HIS:HE1	2:D:3265:CYS:HA	1.65	0.62
2:D:4120:GLU:HA	2:D:4123:GLU:HG2	1.80	0.62
2:D:4658:GLY:HA2	2:D:4666:ILE:HG21	1.81	0.62
2:B:3179:ASN:O	2:B:3185:ASN:ND2	2.31	0.62
2:A:3149:GLU:HA	2:A:3152:ARG:HD2	1.81	0.61
2:B:878:LEU:HD12	2:B:881:ILE:HD11	1.81	0.61
2:B:2883:ALA:HA	2:B:2886:ARG:HE	1.64	0.61
2:B:4238:ILE:O	2:B:4242:ARG:HB3	2.00	0.61
2:C:611:LEU:HD22	2:C:1660:LEU:HD22	1.81	0.61
2:C:3042:ALA:HB3	2:C:3117:PHE:HB3	1.82	0.61
2:C:4238:ILE:O	2:C:4242:ARG:HB3	2.00	0.61
2:A:176:ARG:HB2	2:A:179:ASP:HB2	1.83	0.61
2:A:3178:HIS:HE1	2:A:3265:CYS:HA	1.65	0.61
2:D:2500:ALA:O	2:D:2554:ARG:NH1	2.32	0.61
2:B:3697:LYS:HA	2:B:3700:HIS:CD2	2.35	0.61
2:B:3712:LYS:O	2:B:3717:LYS:NZ	2.33	0.61
2:C:1910:LEU:HD13	2:C:2062:ILE:HG12	1.83	0.61
2:C:3149:GLU:HA	2:C:3152:ARG:HD2	1.81	0.61
2:A:2192:MET:HA	2:A:2192:MET:CE	2.31	0.61
2:A:3261:ALA:O	2:A:3262:GLU:HG3	2.01	0.61
2:D:3316:LYS:O	2:D:3317:THR:OG1	2.18	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:4191:ASN:OD1	2:D:4608:ARG:NH1	2.31	0.61
2:A:2797:SER:HA	2:A:2800:LEU:HD12	1.82	0.61
2:D:176:ARG:HB2	2:D:179:ASP:HB2	1.82	0.61
2:D:2192:MET:HA	2:D:2192:MET:CE	2.31	0.61
2:A:4658:GLY:HA2	2:A:4666:ILE:HG21	1.81	0.61
2:D:3712:LYS:O	2:D:3717:LYS:NZ	2.34	0.61
2:B:3281:LEU:HB3	2:B:3322:LEU:HD11	1.82	0.61
2:A:1849:SER:HB2	2:A:2054:LYS:HD2	1.81	0.61
2:A:3179:ASN:O	2:A:3185:ASN:ND2	2.31	0.61
2:D:1444:GLY:HA3	2:D:1487:MET:HA	1.83	0.61
2:D:1910:LEU:HD13	2:D:2062:ILE:HG12	1.82	0.61
2:D:2877:LEU:HD22	2:D:2881:GLU:HG3	1.83	0.61
2:D:3892:TYR:OH	2:D:3899:ASP:OD1	2.14	0.61
2:B:176:ARG:HB2	2:B:179:ASP:HB2	1.82	0.61
2:A:1433:PHE:CD2	2:A:1551:ASN:HB3	2.35	0.61
2:A:3697:LYS:HA	2:A:3700:HIS:CD2	2.36	0.61
2:A:3892:TYR:OH	2:A:3899:ASP:OD1	2.14	0.61
2:D:1937:GLN:NE2	2:D:3608:LEU:O	2.30	0.61
2:B:686:VAL:HG13	2:B:687:THR:HG23	1.81	0.61
2:B:3261:ALA:O	2:B:3262:GLU:HG3	2.01	0.61
2:C:948:CYS:SG	2:C:995:MET:HE2	2.41	0.61
2:C:515:ALA:HB2	2:C:523:GLY:HA3	1.83	0.61
2:C:3261:ALA:O	2:C:3262:GLU:HG3	2.01	0.61
2:A:3042:ALA:HB3	2:A:3117:PHE:HB3	1.82	0.61
2:A:3712:LYS:O	2:A:3717:LYS:NZ	2.33	0.61
2:D:3697:LYS:HA	2:D:3700:HIS:CD2	2.36	0.61
2:C:2192:MET:HA	2:C:2192:MET:CE	2.31	0.61
2:C:3712:LYS:O	2:C:3717:LYS:NZ	2.34	0.61
2:A:2736:LYS:HB3	2:A:2741:TRP:HB2	1.83	0.61
2:D:1748:LEU:HB3	2:D:1751:ILE:HD13	1.83	0.61
2:D:3281:LEU:HB3	2:D:3322:LEU:HD11	1.82	0.61
2:B:948:CYS:SG	2:B:995:MET:HE2	2.41	0.61
2:B:4658:GLY:HA2	2:B:4666:ILE:HG21	1.81	0.61
2:B:4800:ASP:OD1	2:B:4801:THR:N	2.34	0.61
2:C:2877:LEU:HD22	2:C:2881:GLU:HG3	1.83	0.61
1:H:36:LYS:H	2:D:647:ARG:NH2	1.99	0.60
2:A:300:VAL:O	2:A:420:ARG:NH1	2.28	0.60
2:A:3281:LEU:HB3	2:A:3322:LEU:HD11	1.82	0.60
2:D:2129:LEU:CB	2:D:2142:MET:HE1	2.30	0.60
2:B:1748:LEU:HB3	2:B:1751:ILE:HD13	1.83	0.60
2:B:2716:LYS:NZ	2:B:2789:ILE:O	2.29	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2797:SER:HA	2:B:2800:LEU:HD12	1.82	0.60
2:C:1724:GLU:OE1	2:C:2127:ARG:NH1	2.32	0.60
2:C:4800:ASP:OD1	2:C:4801:THR:N	2.34	0.60
1:F:24:VAL:HG22	1:F:48:LYS:HG2	1.83	0.60
2:D:878:LEU:HD12	2:D:881:ILE:HD11	1.81	0.60
2:D:2797:SER:HA	2:D:2800:LEU:HD12	1.82	0.60
2:C:1748:LEU:HB3	2:C:1751:ILE:HD13	1.83	0.60
2:C:3697:LYS:HA	2:C:3700:HIS:CD2	2.36	0.60
2:A:143:LEU:CD1	2:D:2426:LEU:HD12	2.31	0.60
2:A:1748:LEU:HB3	2:A:1751:ILE:HD13	1.83	0.60
2:A:2877:LEU:HD22	2:A:2881:GLU:HG3	1.83	0.60
2:A:4191:ASN:OD1	2:A:4608:ARG:NH1	2.31	0.60
2:D:4183:LYS:HE3	2:C:4902:PRO:HB3	1.82	0.60
2:B:1910:LEU:HD13	2:B:2062:ILE:HG12	1.83	0.60
2:C:1444:GLY:HA3	2:C:1487:MET:HA	1.83	0.60
2:C:3281:LEU:HB3	2:C:3322:LEU:HD11	1.82	0.60
2:A:1444:GLY:HA3	2:A:1487:MET:HA	1.83	0.60
2:D:3261:ALA:O	2:D:3262:GLU:HG3	2.01	0.60
2:B:1724:GLU:OE1	2:B:2127:ARG:NH1	2.32	0.60
2:B:3281:LEU:HG	2:B:3322:LEU:HD21	1.83	0.60
2:C:1144:ARG:NH1	2:C:1191:ALA:O	2.34	0.60
1:E:24:VAL:HG22	1:E:48:LYS:HG2	1.83	0.60
2:B:300:VAL:O	2:B:420:ARG:NH1	2.28	0.60
2:B:2192:MET:HA	2:B:2192:MET:CE	2.31	0.60
2:B:2877:LEU:HD22	2:B:2881:GLU:HG3	1.83	0.60
2:B:3042:ALA:HB3	2:B:3117:PHE:HB3	1.82	0.60
2:A:948:CYS:SG	2:A:995:MET:HE2	2.41	0.60
2:A:1910:LEU:HD13	2:A:2062:ILE:HG12	1.82	0.60
2:B:515:ALA:HB2	2:B:523:GLY:HA3	1.83	0.60
2:C:1564:MET:HE1	2:C:1578:PRO:HA	1.83	0.60
2:A:250:GLY:HA2	2:A:257:ARG:HD3	1.84	0.60
2:A:904:TYR:O	2:A:914:GLN:NE2	2.35	0.60
2:A:2385:GLY:O	2:A:2389:MET:HG3	2.02	0.60
2:D:441:LYS:HD3	2:D:443:SER:H	1.67	0.60
2:C:2736:LYS:HB3	2:C:2741:TRP:HB2	1.83	0.60
2:C:4191:ASN:OD1	2:C:4608:ARG:NH1	2.31	0.60
2:D:1114:ARG:NH1	2:D:1128:LEU:O	2.33	0.60
2:B:4748:MET:O	2:B:4754:ARG:NH2	2.35	0.60
2:C:176:ARG:HB2	2:C:179:ASP:HB2	1.83	0.60
1:F:78:THR:OG1	1:F:80:ASP:OD1	2.17	0.60
2:D:2736:LYS:HB3	2:D:2741:TRP:HB2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:250:GLY:HA2	2:B:257:ARG:HD3	1.84	0.60
2:B:2736:LYS:HB3	2:B:2741:TRP:HB2	1.83	0.60
2:A:1564:MET:HE1	2:A:1578:PRO:HA	1.83	0.60
2:A:4748:MET:O	2:A:4754:ARG:NH2	2.35	0.60
2:D:2385:GLY:O	2:D:2389:MET:HG3	2.02	0.60
2:A:4907:THR:HA	2:A:4910:LEU:HD23	1.84	0.59
2:B:1433:PHE:HD2	2:B:1551:ASN:HB3	1.67	0.59
2:B:2385:GLY:O	2:B:2389:MET:HG3	2.02	0.59
2:C:441:LYS:HD3	2:C:443:SER:H	1.67	0.59
2:C:2385:GLY:O	2:C:2389:MET:HG3	2.02	0.59
2:A:1144:ARG:NH1	2:A:1191:ALA:O	2.34	0.59
2:D:1001:GLU:OE2	2:D:1005:ASN:ND2	2.35	0.59
2:D:2716:LYS:NZ	2:D:2789:ILE:O	2.29	0.59
2:B:1444:GLY:HA3	2:B:1487:MET:HA	1.83	0.59
2:C:3000:GLU:HA	2:C:3003:MET:HE2	1.84	0.59
2:A:1114:ARG:NH1	2:A:1128:LEU:O	2.33	0.59
2:A:3281:LEU:HG	2:A:3322:LEU:HD21	1.84	0.59
1:G:24:VAL:HG22	1:G:48:LYS:HG2	1.84	0.59
2:B:1718:ARG:HD3	2:B:1831:MET:HA	1.84	0.59
2:C:904:TYR:O	2:C:914:GLN:NE2	2.35	0.59
2:A:466:PRO:HG2	2:A:479:LEU:HG	1.84	0.59
2:D:434:ASP:OD1	2:D:504:ARG:NH1	2.36	0.59
2:D:904:TYR:O	2:D:914:GLN:NE2	2.35	0.59
2:D:948:CYS:SG	2:D:995:MET:HE2	2.41	0.59
2:D:1144:ARG:NH1	2:D:1191:ALA:O	2.34	0.59
2:D:1564:MET:HE1	2:D:1578:PRO:HA	1.83	0.59
2:D:4800:ASP:OD1	2:D:4801:THR:N	2.34	0.59
2:B:434:ASP:OD1	2:B:504:ARG:NH1	2.36	0.59
2:B:1564:MET:HE1	2:B:1578:PRO:HA	1.83	0.59
2:C:4748:MET:O	2:C:4754:ARG:NH2	2.35	0.59
2:A:270:HIS:CD2	2:A:491:GLU:HG3	2.38	0.59
2:A:1433:PHE:HD2	2:A:1551:ASN:HB3	1.67	0.59
2:A:3316:LYS:O	2:A:3317:THR:OG1	2.18	0.59
2:B:1144:ARG:NH1	2:B:1191:ALA:O	2.34	0.59
2:C:2129:LEU:CB	2:C:2142:MET:HE1	2.30	0.59
2:A:207:PHE:CD2	2:D:2325:ILE:HG13	2.37	0.59
1:E:78:THR:OG1	1:E:80:ASP:OD1	2.17	0.59
1:G:78:THR:OG1	1:G:80:ASP:OD1	2.17	0.59
2:D:515:ALA:HB2	2:D:523:GLY:HA3	1.83	0.59
2:B:270:HIS:CD2	2:B:491:GLU:HG3	2.38	0.59
2:B:3000:GLU:HA	2:B:3003:MET:HE2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3316:LYS:O	2:B:3317:THR:OG1	2.18	0.59
2:C:270:HIS:CD2	2:C:491:GLU:HG3	2.38	0.59
2:A:287:SER:HA	2:A:349:MET:HE2	1.85	0.59
2:A:434:ASP:OD1	2:A:504:ARG:NH1	2.36	0.59
2:D:270:HIS:CD2	2:D:491:GLU:HG3	2.38	0.59
2:D:291:TRP:O	2:D:343:ARG:NH2	2.36	0.59
2:D:466:PRO:HG2	2:D:479:LEU:HG	1.84	0.59
2:D:1433:PHE:HD2	2:D:1551:ASN:HB3	1.67	0.59
2:D:3016:ARG:HG2	2:D:3017:HIS:CD2	2.38	0.59
2:B:4630:TRP:CZ2	2:B:4711:GLY:HA3	2.38	0.59
2:B:4747:ALA:HB1	2:B:4757:LEU:HD23	1.84	0.59
2:C:3846:LEU:HB3	2:C:3854:PHE:CE2	2.38	0.59
1:H:24:VAL:HG22	1:H:48:LYS:HG2	1.84	0.59
2:A:291:TRP:O	2:A:343:ARG:NH2	2.36	0.59
2:A:515:ALA:HB2	2:A:523:GLY:HA3	1.83	0.59
2:A:2129:LEU:CB	2:A:2142:MET:HE1	2.30	0.59
2:D:2232:PRO:HD3	2:D:2382:ILE:HD11	1.84	0.59
2:B:2129:LEU:CB	2:B:2142:MET:HE1	2.30	0.59
2:C:1718:ARG:HD3	2:C:1831:MET:HA	1.84	0.59
2:A:1724:GLU:OE1	2:A:2127:ARG:NH1	2.32	0.59
2:A:2736:LYS:NZ	2:A:2754:GLN:HG2	2.18	0.59
2:A:2859:GLU:O	2:A:2862:SER:OG	2.16	0.59
2:A:3000:GLU:HA	2:A:3003:MET:HE2	1.84	0.59
2:A:4169:LYS:NZ	4:A:5002:ATP:O1A	2.32	0.59
2:A:4728:MET:HE2	2:A:4728:MET:HA	1.85	0.59
2:A:4890:ILE:HD13	2:A:4913:HIS:HB3	1.85	0.59
2:D:4169:LYS:NZ	4:D:5002:ATP:O1A	2.31	0.59
2:D:4728:MET:HE2	2:D:4728:MET:HA	1.84	0.59
2:D:4748:MET:O	2:D:4754:ARG:NH2	2.35	0.59
2:B:4082:GLU:HA	2:B:4085:LYS:HE2	1.84	0.59
2:C:291:TRP:O	2:C:343:ARG:NH2	2.36	0.59
2:C:1433:PHE:HD2	2:C:1551:ASN:HB3	1.67	0.59
2:C:3281:LEU:HG	2:C:3322:LEU:HD21	1.84	0.59
2:C:4747:ALA:HB1	2:C:4757:LEU:HD23	1.84	0.59
2:A:4014:LEU:HD13	2:A:4122:ALA:HB2	1.85	0.59
2:A:4082:GLU:HA	2:A:4085:LYS:HE2	1.84	0.59
2:D:1718:ARG:HD3	2:D:1831:MET:HA	1.84	0.59
2:D:2736:LYS:NZ	2:D:2754:GLN:HG2	2.18	0.59
2:B:3016:ARG:HG2	2:B:3017:HIS:CD2	2.38	0.59
2:C:250:GLY:HA2	2:C:257:ARG:HD3	1.84	0.59
2:C:434:ASP:OD1	2:C:504:ARG:NH1	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:3695:MET:HE3	2:C:3731:LEU:HD13	1.85	0.59
2:C:4907:THR:HA	2:C:4910:LEU:HD23	1.84	0.59
2:A:2741:TRP:HA	2:A:2752:LYS:HG3	1.85	0.58
2:A:4654:MET:HE1	2:A:4666:ILE:HG23	1.85	0.58
2:D:4747:ALA:HB1	2:D:4757:LEU:HD23	1.84	0.58
2:B:4580:THR:OG1	2:B:4733:HIS:NE2	2.27	0.58
2:B:4728:MET:HE2	2:B:4728:MET:HA	1.84	0.58
2:A:194:LEU:HD21	2:A:201:LEU:HD22	1.85	0.58
2:A:3016:ARG:HG2	2:A:3017:HIS:CD2	2.38	0.58
2:D:1724:GLU:OE1	2:D:2127:ARG:NH1	2.32	0.58
2:D:3281:LEU:HG	2:D:3322:LEU:HD21	1.84	0.58
2:D:4082:GLU:HA	2:D:4085:LYS:HE2	1.84	0.58
2:C:466:PRO:HG2	2:C:479:LEU:HG	1.84	0.58
2:C:2940:ILE:HG21	2:C:3018:ARG:HD3	1.85	0.58
2:C:3316:LYS:O	2:C:3317:THR:OG1	2.18	0.58
2:A:2940:ILE:HG21	2:A:3018:ARG:HD3	1.85	0.58
2:A:4800:ASP:OD1	2:A:4801:THR:N	2.34	0.58
2:D:194:LEU:HD21	2:D:201:LEU:HD22	1.85	0.58
2:D:287:SER:HA	2:D:349:MET:HE2	1.84	0.58
2:D:3281:LEU:HA	2:D:3284:ILE:HG12	1.85	0.58
2:D:4907:THR:HA	2:D:4910:LEU:HD23	1.84	0.58
2:C:4890:ILE:HD13	2:C:4913:HIS:HB3	1.85	0.58
2:A:1967:SER:O	2:A:1972:GLN:NE2	2.30	0.58
2:D:141:ASP:OD2	2:D:144:ALA:N	2.37	0.58
2:D:250:GLY:HA2	2:D:257:ARG:HD3	1.84	0.58
2:D:300:VAL:O	2:D:420:ARG:NH1	2.28	0.58
2:D:2741:TRP:HA	2:D:2752:LYS:HG3	1.85	0.58
2:D:2847:ASN:O	2:D:2850:ASN:HB2	2.04	0.58
2:D:4014:LEU:HD13	2:D:4122:ALA:HB2	1.85	0.58
2:B:441:LYS:HD3	2:B:443:SER:H	1.67	0.58
2:B:1144:ARG:NE	2:B:1150:GLU:OE2	2.36	0.58
2:B:4907:THR:HA	2:B:4910:LEU:HD23	1.84	0.58
2:A:2232:PRO:HD3	2:A:2382:ILE:HD11	1.84	0.58
2:A:4707:MET:CE	2:D:4249:ARG:HG2	2.30	0.58
2:D:3000:GLU:HA	2:D:3003:MET:HE2	1.84	0.58
2:D:3695:MET:HE3	2:D:3731:LEU:HD13	1.85	0.58
2:D:3846:LEU:HB3	2:D:3854:PHE:CE2	2.38	0.58
2:B:291:TRP:O	2:B:343:ARG:NH2	2.36	0.58
2:B:904:TYR:O	2:B:914:GLN:NE2	2.35	0.58
2:B:4654:MET:HE1	2:B:4666:ILE:HG23	1.85	0.58
2:C:2696:ASP:OD2	2:C:2702:ASN:N	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:4082:GLU:HA	2:C:4085:LYS:HE2	1.84	0.58
2:A:441:LYS:HD3	2:A:443:SER:H	1.67	0.58
2:A:972:LEU:HD22	2:A:978:PRO:HD3	1.86	0.58
2:A:1457:PHE:HD1	2:A:1461:ARG:HH21	1.51	0.58
2:A:1937:GLN:NE2	2:A:3608:LEU:O	2.30	0.58
2:D:2193:VAL:HG11	2:D:2227:VAL:HG11	1.85	0.58
2:D:4654:MET:HE1	2:D:4666:ILE:HG23	1.86	0.58
2:B:466:PRO:HG2	2:B:479:LEU:HG	1.84	0.58
2:A:1718:ARG:HD3	2:A:1831:MET:HA	1.84	0.58
2:A:3281:LEU:HA	2:A:3284:ILE:HG12	1.85	0.58
2:A:3846:LEU:HB3	2:A:3854:PHE:CE2	2.38	0.58
2:D:411:GLU:OE1	2:D:484:ASN:ND2	2.37	0.58
2:D:2353:ILE:HG12	2:D:2359:ARG:HE	1.69	0.58
2:D:2940:ILE:HG21	2:D:3018:ARG:HD3	1.85	0.58
2:B:3846:LEU:HB3	2:B:3854:PHE:CE2	2.38	0.58
2:C:1144:ARG:NE	2:C:1150:GLU:OE2	2.37	0.58
2:C:4728:MET:HE2	2:C:4728:MET:HA	1.84	0.58
2:A:3100:ALA:O	2:A:3104:MET:HG2	2.04	0.58
2:A:3695:MET:HE3	2:A:3731:LEU:HD13	1.85	0.58
2:A:4630:TRP:CZ2	2:A:4711:GLY:HA3	2.38	0.58
2:D:3100:ALA:O	2:D:3104:MET:HG2	2.04	0.58
2:D:4630:TRP:CZ2	2:D:4711:GLY:HA3	2.38	0.58
2:B:287:SER:HA	2:B:349:MET:HE2	1.84	0.58
2:C:2232:PRO:HD3	2:C:2382:ILE:HD11	1.84	0.58
2:C:2736:LYS:NZ	2:C:2754:GLN:HG2	2.18	0.58
2:A:16:THR:HG21	2:A:111:ARG:HB2	1.85	0.58
2:A:4747:ALA:HB1	2:A:4757:LEU:HD23	1.84	0.58
2:D:16:THR:HG21	2:D:111:ARG:HB2	1.85	0.58
2:B:2754:GLN:HB3	2:B:2757:MET:HE1	1.85	0.58
2:B:3695:MET:HE3	2:B:3731:LEU:HD13	1.85	0.58
2:B:4818:TYR:HB2	2:C:4844:ILE:HG23	1.86	0.58
2:C:2193:VAL:HG11	2:C:2227:VAL:HG11	1.85	0.58
2:C:2716:LYS:NZ	2:C:2789:ILE:O	2.29	0.58
2:C:3016:ARG:HG2	2:C:3017:HIS:CD2	2.38	0.58
2:A:2696:ASP:OD2	2:A:2702:ASN:N	2.36	0.58
2:A:2847:ASN:O	2:A:2850:ASN:HB2	2.04	0.58
2:A:4197:ILE:HG13	2:A:4919:LEU:HD11	1.86	0.58
2:C:16:THR:HG21	2:C:111:ARG:HB2	1.85	0.58
2:C:287:SER:HA	2:C:349:MET:HE2	1.84	0.58
2:C:4630:TRP:CZ2	2:C:4711:GLY:HA3	2.38	0.58
2:A:15:ARG:HH12	2:A:111:ARG:C	2.12	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2353:ILE:HG12	2:A:2359:ARG:HE	1.69	0.57
2:A:4776:VAL:HG22	2:D:4743:LEU:CD2	2.33	0.57
2:D:2635:GLU:HA	2:D:2638:LEU:HB2	1.86	0.57
2:B:15:ARG:HH12	2:B:111:ARG:C	2.12	0.57
2:B:972:LEU:HD22	2:B:978:PRO:HD3	1.86	0.57
2:B:1114:ARG:NH1	2:B:1128:LEU:O	2.33	0.57
2:B:2736:LYS:NZ	2:B:2754:GLN:HG2	2.18	0.57
2:B:3125:ASP:HA	2:B:3128:VAL:HG22	1.86	0.57
2:B:4197:ILE:HG13	2:B:4919:LEU:HD11	1.86	0.57
2:C:1937:GLN:NE2	2:C:3608:LEU:O	2.30	0.57
2:C:2635:GLU:HA	2:C:2638:LEU:HB2	1.86	0.57
2:C:3125:ASP:HA	2:C:3128:VAL:HG22	1.86	0.57
2:A:411:GLU:OE1	2:A:484:ASN:ND2	2.37	0.57
2:A:2716:LYS:NZ	2:A:2789:ILE:O	2.29	0.57
2:A:4661:TYR:HB3	2:A:4665:ARG:NH2	2.20	0.57
2:A:4710:LEU:HD22	2:D:4252:ILE:HD12	1.87	0.57
2:D:1144:ARG:NE	2:D:1150:GLU:OE2	2.37	0.57
2:B:2232:PRO:HD3	2:B:2382:ILE:HD11	1.84	0.57
2:B:2696:ASP:OD2	2:B:2702:ASN:N	2.36	0.57
2:B:4890:ILE:HD13	2:B:4913:HIS:HB3	1.85	0.57
2:C:1457:PHE:HD1	2:C:1461:ARG:HH21	1.51	0.57
2:C:2847:ASN:O	2:C:2850:ASN:HB2	2.04	0.57
2:C:4014:LEU:HD13	2:C:4122:ALA:HB2	1.85	0.57
2:A:3125:ASP:HA	2:A:3128:VAL:HG22	1.86	0.57
2:A:3145:SER:O	2:A:3149:GLU:HG2	2.05	0.57
2:A:4726:MET:HE2	2:A:4726:MET:HA	1.86	0.57
2:B:141:ASP:OD2	2:B:144:ALA:N	2.37	0.57
2:C:1749:PRO:HB2	2:C:1913:LEU:HD22	1.87	0.57
2:C:2353:ILE:HG12	2:C:2359:ARG:HE	1.69	0.57
2:C:2859:GLU:O	2:C:2862:SER:OG	2.16	0.57
2:C:3145:SER:O	2:C:3149:GLU:HG2	2.04	0.57
2:C:3281:LEU:HA	2:C:3284:ILE:HG12	1.85	0.57
2:A:2119:LEU:HB2	2:A:2152:ASN:ND2	2.20	0.57
2:A:2754:GLN:HB3	2:A:2757:MET:HE1	1.85	0.57
2:C:1644:LEU:HD23	2:C:1651:LEU:HA	1.87	0.57
2:A:1001:GLU:OE2	2:A:1005:ASN:ND2	2.35	0.57
2:D:606:ARG:NH2	2:D:1634:GLU:OE2	2.38	0.57
2:D:2119:LEU:HB2	2:D:2152:ASN:ND2	2.20	0.57
2:B:194:LEU:HD21	2:B:201:LEU:HD22	1.85	0.57
2:B:1457:PHE:HD1	2:B:1461:ARG:HH21	1.51	0.57
2:B:2192:MET:HA	2:B:2192:MET:HE3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2741:TRP:HA	2:B:2752:LYS:HG3	1.85	0.57
2:B:2940:ILE:HG21	2:B:3018:ARG:HD3	1.85	0.57
2:B:4014:LEU:HD13	2:B:4122:ALA:HB2	1.85	0.57
2:C:238:HIS:CG	2:C:239:GLY:H	2.23	0.57
2:C:411:GLU:OE1	2:C:484:ASN:ND2	2.37	0.57
2:C:2741:TRP:HA	2:C:2752:LYS:HG3	1.85	0.57
2:A:1144:ARG:NE	2:A:1150:GLU:OE2	2.37	0.57
2:A:3235:MET:SD	2:A:3283:ILE:HG21	2.45	0.57
1:E:58:LYS:HE2	1:E:81:VAL:HA	1.87	0.57
2:D:972:LEU:HD22	2:D:978:PRO:HD3	1.86	0.57
2:B:3100:ALA:O	2:B:3104:MET:HG2	2.04	0.57
2:C:240:HIS:O	2:C:241:MET:HB2	2.05	0.57
2:C:606:ARG:NH2	2:C:1634:GLU:OE2	2.38	0.57
2:A:606:ARG:NH2	2:A:1634:GLU:OE2	2.38	0.57
2:A:1644:LEU:HD23	2:A:1651:LEU:HA	1.87	0.57
2:A:2296:GLU:HG3	2:A:2390:THR:HG22	1.87	0.57
2:D:15:ARG:HH12	2:D:111:ARG:C	2.12	0.57
2:D:1644:LEU:HD23	2:D:1651:LEU:HA	1.87	0.57
2:D:3125:ASP:HA	2:D:3128:VAL:HG22	1.86	0.57
2:B:240:HIS:O	2:B:241:MET:HB2	2.05	0.57
2:B:1001:GLU:OE2	2:B:1005:ASN:ND2	2.35	0.57
2:B:1011:ARG:HB3	2:B:1016:TRP:HB2	1.87	0.57
2:B:2119:LEU:HB2	2:B:2152:ASN:ND2	2.20	0.57
2:B:2847:ASN:O	2:B:2850:ASN:HB2	2.04	0.57
2:B:3235:MET:SD	2:B:3283:ILE:HG21	2.45	0.57
2:C:3100:ALA:O	2:C:3104:MET:HG2	2.04	0.57
2:C:4197:ILE:HG13	2:C:4919:LEU:HD11	1.86	0.57
2:C:4654:MET:HE1	2:C:4666:ILE:HG23	1.86	0.57
1:H:58:LYS:HE2	1:H:81:VAL:HA	1.87	0.57
2:D:2172:MET:SD	2:D:2214:MET:HE1	2.45	0.57
2:D:3145:SER:O	2:D:3149:GLU:HG2	2.05	0.57
2:D:4580:THR:OG1	2:D:4733:HIS:NE2	2.27	0.57
2:B:411:GLU:OE1	2:B:484:ASN:ND2	2.37	0.57
2:B:415:THR:O	2:B:419:ILE:HG13	2.05	0.57
2:B:606:ARG:NH2	2:B:1634:GLU:OE2	2.38	0.57
2:B:3122:ILE:HG22	2:B:3126:VAL:HG22	1.87	0.57
2:B:3281:LEU:HA	2:B:3284:ILE:HG12	1.85	0.57
2:B:4294:LEU:HD12	2:C:4714:PHE:CE1	2.40	0.57
2:C:194:LEU:HD21	2:C:201:LEU:HD22	1.85	0.57
2:C:972:LEU:HD22	2:C:978:PRO:HD3	1.86	0.57
2:C:988:LEU:HD21	2:C:993:GLU:OE1	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2635:GLU:HA	2:A:2638:LEU:HB2	1.86	0.57
2:D:1011:ARG:HB3	2:D:1016:TRP:HB2	1.87	0.57
2:D:2192:MET:HA	2:D:2192:MET:HE3	1.86	0.57
2:B:988:LEU:HD21	2:B:993:GLU:OE1	2.05	0.57
2:B:4661:TYR:HB3	2:B:4665:ARG:NH2	2.19	0.57
2:A:141:ASP:OD2	2:A:144:ALA:N	2.37	0.57
2:A:238:HIS:CG	2:A:239:GLY:H	2.23	0.57
2:A:1011:ARG:HB3	2:A:1016:TRP:HB2	1.87	0.57
2:A:3122:ILE:HG22	2:A:3126:VAL:HG22	1.87	0.57
2:D:238:HIS:CG	2:D:239:GLY:H	2.23	0.57
2:D:415:THR:O	2:D:419:ILE:HG13	2.05	0.57
2:D:3695:MET:HB3	2:D:3731:LEU:HD11	1.87	0.57
2:B:3958:LEU:HD22	2:B:3964:GLN:HB3	1.87	0.57
2:C:2754:GLN:HB3	2:C:2757:MET:HE1	1.85	0.57
2:A:1242:ASN:HB3	2:A:1807:ARG:HG3	1.87	0.56
2:A:2193:VAL:HG11	2:A:2227:VAL:HG11	1.85	0.56
2:D:1421:MET:HE2	2:D:1576:LYS:HD3	1.87	0.56
2:D:2696:ASP:OD2	2:D:2702:ASN:N	2.36	0.56
2:D:2754:GLN:HB3	2:D:2757:MET:HE1	1.85	0.56
2:D:4726:MET:HE2	2:D:4726:MET:HA	1.86	0.56
2:B:1242:ASN:HB3	2:B:1807:ARG:HG3	1.87	0.56
2:B:1644:LEU:HD23	2:B:1651:LEU:HA	1.87	0.56
2:B:3695:MET:HB3	2:B:3731:LEU:HD11	1.87	0.56
2:C:4048:PHE:O	2:C:4052:MET:HE2	2.05	0.56
2:A:1749:PRO:HB2	2:A:1913:LEU:HD22	1.86	0.56
2:A:3958:LEU:HD22	2:A:3964:GLN:HB3	1.87	0.56
2:D:1991:GLU:OE1	2:D:1991:GLU:N	2.31	0.56
2:D:2296:GLU:HG3	2:D:2390:THR:HG22	1.87	0.56
2:D:3179:ASN:O	2:D:3185:ASN:ND2	2.31	0.56
2:D:4048:PHE:O	2:D:4052:MET:HE2	2.05	0.56
2:B:16:THR:HG21	2:B:111:ARG:HB2	1.85	0.56
2:B:2193:VAL:HG11	2:B:2227:VAL:HG11	1.85	0.56
2:B:2859:GLU:O	2:B:2862:SER:OG	2.16	0.56
2:B:4726:MET:HA	2:B:4726:MET:HE2	1.86	0.56
2:A:28:ILE:HG22	2:A:29:HIS:ND1	2.21	0.56
2:A:3075:LEU:HD21	2:A:3094:ILE:HD12	1.88	0.56
2:A:3695:MET:HB3	2:A:3731:LEU:HD11	1.87	0.56
2:A:3784:LYS:HA	2:A:3784:LYS:HE3	1.88	0.56
2:A:4480:PHE:CE2	2:D:4268:MET:SD	2.98	0.56
2:D:1457:PHE:HD1	2:D:1461:ARG:HH21	1.51	0.56
2:D:1749:PRO:HB2	2:D:1913:LEU:HD22	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:4251:ASN:ND2	2:D:4293:THR:O	2.34	0.56
2:D:4661:TYR:HB3	2:D:4665:ARG:NH2	2.20	0.56
2:D:4890:ILE:HD13	2:D:4913:HIS:HB3	1.85	0.56
2:B:28:ILE:HG22	2:B:29:HIS:ND1	2.21	0.56
2:B:246:THR:HG21	2:B:267:VAL:HG11	1.87	0.56
2:B:2172:MET:SD	2:B:2214:MET:HE1	2.45	0.56
2:B:2353:ILE:HG12	2:B:2359:ARG:HE	1.69	0.56
2:B:3075:LEU:HD21	2:B:3094:ILE:HD12	1.88	0.56
2:B:3145:SER:O	2:B:3149:GLU:HG2	2.05	0.56
2:B:3784:LYS:HA	2:B:3784:LYS:HE3	1.88	0.56
2:C:15:ARG:HH12	2:C:111:ARG:C	2.12	0.56
2:C:1011:ARG:HB3	2:C:1016:TRP:HB2	1.87	0.56
2:C:2192:MET:HA	2:C:2192:MET:HE3	1.86	0.56
2:C:3179:ASN:O	2:C:3185:ASN:ND2	2.31	0.56
2:C:4048:PHE:CD2	2:C:4052:MET:HE1	2.41	0.56
2:C:4118:PHE:HA	2:C:4121:LEU:HD12	1.88	0.56
2:A:246:THR:HG21	2:A:267:VAL:HG11	1.87	0.56
2:A:2059:GLN:NE2	2:A:2091:GLN:O	2.39	0.56
2:A:2172:MET:SD	2:A:2214:MET:HE1	2.45	0.56
2:A:4480:PHE:CZ	2:D:4268:MET:SD	2.99	0.56
2:D:136:SER:HB2	2:D:145:PHE:HA	1.88	0.56
2:D:3122:ILE:HG22	2:D:3126:VAL:HG22	1.86	0.56
2:D:3184:TYR:HE1	2:D:3197:LEU:HD13	1.71	0.56
2:B:2723:LYS:HG2	2:B:2895:PHE:HZ	1.71	0.56
2:C:3184:TYR:HE1	2:C:3197:LEU:HD13	1.71	0.56
2:C:3695:MET:HB3	2:C:3731:LEU:HD11	1.87	0.56
2:C:3784:LYS:HE3	2:C:3784:LYS:HA	1.87	0.56
2:C:4726:MET:HE2	2:C:4726:MET:HA	1.86	0.56
1:H:36:LYS:H	2:D:647:ARG:HH21	1.53	0.56
2:A:1964:GLU:HG2	2:A:1975:MET:HE3	1.88	0.56
2:A:3238:ILE:O	2:A:3241:MET:HG3	2.06	0.56
2:A:4048:PHE:O	2:A:4052:MET:HE2	2.05	0.56
2:D:1964:GLU:HG2	2:D:1975:MET:HE3	1.88	0.56
2:D:3109:PHE:HA	2:D:3112:ILE:HG22	1.88	0.56
2:D:3235:MET:SD	2:D:3283:ILE:HG21	2.45	0.56
2:D:4197:ILE:HG13	2:D:4919:LEU:HD11	1.86	0.56
2:D:4858:LEU:HA	2:D:4861:ILE:HB	1.88	0.56
2:B:4048:PHE:O	2:B:4052:MET:HE2	2.05	0.56
2:C:3122:ILE:HG22	2:C:3126:VAL:HG22	1.87	0.56
2:C:4661:TYR:HB3	2:C:4665:ARG:NH2	2.20	0.56
2:A:988:LEU:HD21	2:A:993:GLU:OE1	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3075:LEU:HD21	2:D:3094:ILE:HD12	1.88	0.56
2:D:4048:PHE:CD2	2:D:4052:MET:HE1	2.41	0.56
2:B:1421:MET:HE2	2:B:1576:LYS:HD3	1.87	0.56
2:B:4118:PHE:HA	2:B:4121:LEU:HD12	1.88	0.56
2:C:28:ILE:HG22	2:C:29:HIS:ND1	2.21	0.56
2:C:2059:GLN:NE2	2:C:2091:GLN:O	2.39	0.56
2:C:2172:MET:SD	2:C:2214:MET:HE1	2.45	0.56
2:C:3235:MET:SD	2:C:3283:ILE:HG21	2.45	0.56
1:H:78:THR:OG1	1:H:80:ASP:OD1	2.17	0.56
2:A:2192:MET:HA	2:A:2192:MET:HE3	1.86	0.56
2:A:3729:ALA:HA	2:A:3732:HIS:CD2	2.41	0.56
2:A:4858:LEU:HA	2:A:4861:ILE:HB	1.88	0.56
2:D:246:THR:HG21	2:D:267:VAL:HG11	1.87	0.56
2:B:1749:PRO:HB2	2:B:1913:LEU:HD22	1.87	0.56
2:B:1964:GLU:HG2	2:B:1975:MET:HE3	1.88	0.56
2:B:2059:GLN:NE2	2:B:2091:GLN:O	2.39	0.56
2:B:4048:PHE:CD2	2:B:4052:MET:HE1	2.41	0.56
2:C:2238:THR:HG22	2:C:2240:LEU:H	1.71	0.56
2:C:2322:ARG:NH2	2:C:2415:GLU:OE2	2.39	0.56
2:C:2723:LYS:HG2	2:C:2895:PHE:HZ	1.71	0.56
2:C:2929:LEU:HD13	2:C:2971:ILE:HG12	1.88	0.56
2:A:1991:GLU:OE1	2:A:1991:GLU:N	2.32	0.56
2:A:4641:PRO:HB3	2:A:4644:TYR:HB3	1.87	0.56
1:F:58:LYS:HE2	1:F:81:VAL:HA	1.87	0.56
2:D:414:ARG:HH11	2:D:414:ARG:CG	2.19	0.56
2:D:490:GLN:OE1	2:D:546:LYS:NZ	2.39	0.56
2:B:238:HIS:CG	2:B:239:GLY:H	2.23	0.56
2:B:916:PRO:HA	2:B:919:VAL:HB	1.88	0.56
2:B:2296:GLU:HG3	2:B:2390:THR:HG22	1.87	0.56
2:B:2635:GLU:HA	2:B:2638:LEU:HB2	1.86	0.56
2:B:2929:LEU:HD13	2:B:2971:ILE:HG12	1.88	0.56
2:B:3184:TYR:HE1	2:B:3197:LEU:HD13	1.71	0.56
2:B:3729:ALA:HA	2:B:3732:HIS:CD2	2.41	0.56
2:B:4641:PRO:HB3	2:B:4644:TYR:HB3	1.88	0.56
2:C:136:SER:HB2	2:C:145:PHE:HA	1.88	0.56
2:C:916:PRO:HA	2:C:919:VAL:HB	1.88	0.56
2:C:1001:GLU:OE2	2:C:1005:ASN:ND2	2.35	0.56
2:C:4169:LYS:NZ	4:C:5002:ATP:O1A	2.32	0.56
2:C:4641:PRO:HB3	2:C:4644:TYR:HB3	1.88	0.56
2:A:415:THR:O	2:A:419:ILE:HG13	2.05	0.56
2:A:1114:ARG:NH2	2:A:1127:GLU:OE2	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1421:MET:HE2	2:A:1576:LYS:HD3	1.87	0.56
1:G:58:LYS:HE2	1:G:81:VAL:HA	1.87	0.56
2:C:246:THR:HG21	2:C:267:VAL:HG11	1.87	0.56
2:C:414:ARG:HH11	2:C:414:ARG:CG	2.19	0.56
2:C:415:THR:O	2:C:419:ILE:HG13	2.05	0.56
2:C:3075:LEU:HD21	2:C:3094:ILE:HD12	1.88	0.56
2:C:3238:ILE:O	2:C:3241:MET:HG3	2.06	0.56
2:A:490:GLN:OE1	2:A:546:LYS:NZ	2.39	0.56
2:A:4245:LEU:O	2:A:4249:ARG:HG3	2.06	0.56
2:A:4633:LEU:HD11	2:D:4245:LEU:HD11	1.86	0.56
2:D:988:LEU:HD21	2:D:993:GLU:OE1	2.05	0.56
2:D:2723:LYS:HG2	2:D:2895:PHE:HZ	1.71	0.56
2:D:3784:LYS:HA	2:D:3784:LYS:HE3	1.87	0.56
2:D:4618:THR:OG1	2:D:4619:GLU:OE1	2.24	0.56
2:D:4775:ALA:HA	2:D:4817:MET:HE1	1.88	0.56
2:C:1242:ASN:HB3	2:C:1807:ARG:HG3	1.87	0.56
2:C:2296:GLU:HG3	2:C:2390:THR:HG22	1.87	0.56
2:A:414:ARG:HH11	2:A:414:ARG:CG	2.19	0.55
2:D:3958:LEU:HD22	2:D:3964:GLN:HB3	1.87	0.55
2:D:4118:PHE:HA	2:D:4121:LEU:HD12	1.88	0.55
2:D:4773:LEU:HB2	2:C:4753:LEU:HD22	1.88	0.55
2:B:136:SER:HB2	2:B:145:PHE:HA	1.88	0.55
2:B:2176:VAL:HG22	2:B:2220:TYR:CZ	2.41	0.55
2:B:2322:ARG:NH2	2:B:2415:GLU:OE2	2.39	0.55
2:B:4113:THR:O	2:B:4117:THR:HG23	2.07	0.55
2:B:4775:ALA:HA	2:B:4817:MET:HE1	1.88	0.55
2:C:1964:GLU:HG2	2:C:1975:MET:HE3	1.88	0.55
2:C:4618:THR:OG1	2:C:4619:GLU:OE1	2.24	0.55
2:B:1114:ARG:NH2	2:B:1127:GLU:OE2	2.39	0.55
2:B:4245:LEU:O	2:B:4249:ARG:HG3	2.06	0.55
2:B:4858:LEU:HA	2:B:4861:ILE:HB	1.88	0.55
2:A:3109:PHE:HA	2:A:3112:ILE:HG22	1.88	0.55
2:A:4048:PHE:CD2	2:A:4052:MET:HE1	2.41	0.55
2:A:4118:PHE:HA	2:A:4121:LEU:HD12	1.88	0.55
2:A:4775:ALA:HA	2:A:4817:MET:HE1	1.88	0.55
2:D:28:ILE:HG22	2:D:29:HIS:ND1	2.21	0.55
2:D:2238:THR:HG22	2:D:2240:LEU:H	1.71	0.55
2:D:3729:ALA:HA	2:D:3732:HIS:CD2	2.41	0.55
2:D:4481:TRP:HA	2:D:4484:ILE:HG22	1.88	0.55
2:D:4641:PRO:HB3	2:D:4644:TYR:HB3	1.88	0.55
2:C:3958:LEU:HD22	2:C:3964:GLN:HB3	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:91:VAL:O	2:D:640:ARG:NH2	2.40	0.55
1:H:108:GLU:OE2	1:H:108:GLU:N	2.40	0.55
2:A:4557:VAL:HG21	2:B:4790:ARG:HH12	1.72	0.55
2:D:494:MET:HE1	2:D:497:LEU:HD23	1.88	0.55
2:D:842:GLN:HB2	2:D:1603:PHE:HB2	1.88	0.55
2:D:1114:ARG:NH2	2:D:1127:GLU:OE2	2.39	0.55
2:D:1242:ASN:HB3	2:D:1807:ARG:HG3	1.87	0.55
2:D:4245:LEU:O	2:D:4249:ARG:HG3	2.06	0.55
2:B:219:SER:OG	2:B:349:MET:SD	2.64	0.55
2:C:891:GLU:HG2	2:C:978:PRO:HA	1.89	0.55
2:C:1691:ASN:HB3	2:C:1694:MET:HE2	1.89	0.55
2:C:2176:VAL:HG22	2:C:2220:TYR:CZ	2.41	0.55
2:C:3109:PHE:HA	2:C:3112:ILE:HG22	1.88	0.55
2:C:3661:VAL:HG23	2:C:3666:GLN:HG2	1.89	0.55
2:C:3729:ALA:HA	2:C:3732:HIS:CD2	2.41	0.55
2:A:2736:LYS:HZ2	2:A:2754:GLN:HG2	1.72	0.55
1:F:108:GLU:N	1:F:108:GLU:OE2	2.40	0.55
2:D:584:GLU:O	2:D:588:ILE:HG12	2.07	0.55
2:D:891:GLU:HG2	2:D:978:PRO:HA	1.89	0.55
2:D:2059:GLN:NE2	2:D:2091:GLN:O	2.39	0.55
2:B:2212:LYS:HE2	2:B:3822:GLU:HG3	1.89	0.55
2:C:842:GLN:HB2	2:C:1603:PHE:HB2	1.89	0.55
2:C:3606:ALA:HB1	2:C:3610:ASN:HB2	1.88	0.55
2:A:240:HIS:O	2:A:241:MET:HB2	2.05	0.55
2:D:916:PRO:HA	2:D:919:VAL:HB	1.88	0.55
2:D:1691:ASN:HB3	2:D:1694:MET:HE2	1.89	0.55
2:B:2736:LYS:HZ2	2:B:2754:GLN:HG2	1.72	0.55
2:B:3238:ILE:O	2:B:3241:MET:HG3	2.06	0.55
2:C:1114:ARG:NH2	2:C:1127:GLU:OE2	2.39	0.55
2:C:1114:ARG:NH1	2:C:1128:LEU:O	2.33	0.55
2:C:2212:LYS:HE2	2:C:3822:GLU:HG3	1.89	0.55
2:A:1691:ASN:HB3	2:A:1694:MET:HE2	1.89	0.55
1:E:108:GLU:N	1:E:108:GLU:OE2	2.40	0.55
2:D:4113:THR:O	2:D:4117:THR:HG23	2.07	0.55
2:B:15:ARG:NH1	2:B:111:ARG:O	2.40	0.55
2:B:2142:MET:CB	2:B:2192:MET:HE1	2.36	0.55
2:B:2905:ARG:HH11	2:B:2906:GLY:H	1.54	0.55
2:C:490:GLN:OE1	2:C:546:LYS:NZ	2.39	0.55
2:C:1421:MET:HE2	2:C:1576:LYS:HD3	1.87	0.55
2:C:4245:LEU:O	2:C:4249:ARG:HG3	2.06	0.55
2:C:4580:THR:OG1	2:C:4733:HIS:NE2	2.27	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:4775:ALA:HA	2:C:4817:MET:HE1	1.88	0.55
1:G:108:GLU:N	1:G:108:GLU:OE2	2.40	0.55
2:D:240:HIS:O	2:D:241:MET:HB2	2.05	0.55
2:D:658:ASN:ND2	2:D:835:GLU:OE1	2.40	0.55
2:D:3238:ILE:O	2:D:3241:MET:HG3	2.06	0.55
2:B:2238:THR:HG22	2:B:2240:LEU:H	1.71	0.55
2:B:2245:ALA:HA	2:B:2248:MET:HE3	1.89	0.55
2:B:3661:VAL:HG23	2:B:3666:GLN:HG2	1.89	0.55
2:C:658:ASN:ND2	2:C:835:GLU:OE1	2.40	0.55
2:C:2245:ALA:HA	2:C:2248:MET:HE3	1.89	0.55
2:C:4113:THR:O	2:C:4117:THR:HG23	2.07	0.55
2:C:4481:TRP:HA	2:C:4484:ILE:HG22	1.88	0.55
2:A:2176:VAL:HG22	2:A:2220:TYR:CZ	2.41	0.55
2:A:2322:ARG:NH2	2:A:2415:GLU:OE2	2.39	0.55
2:A:3606:ALA:HB1	2:A:3610:ASN:HB2	1.88	0.55
2:A:4113:THR:O	2:A:4117:THR:HG23	2.07	0.55
2:B:490:GLN:OE1	2:B:546:LYS:NZ	2.39	0.55
2:B:4495:PHE:HE1	2:B:4502:MET:HE1	1.71	0.55
2:C:2852:TRP:HA	2:C:2855:LYS:NZ	2.22	0.55
2:C:4858:LEU:HA	2:C:4861:ILE:HB	1.88	0.55
2:A:916:PRO:HA	2:A:919:VAL:HB	1.88	0.55
2:A:4481:TRP:HA	2:A:4484:ILE:HG22	1.88	0.55
2:D:2176:VAL:HG22	2:D:2220:TYR:CZ	2.41	0.55
2:D:2322:ARG:NH2	2:D:2415:GLU:OE2	2.39	0.55
2:B:584:GLU:O	2:B:588:ILE:HG12	2.07	0.55
2:B:1940:GLN:NE2	2:B:1964:GLU:OE2	2.40	0.55
2:B:4107:GLU:OE1	2:B:4149:TYR:OH	2.23	0.55
2:C:952:ILE:HD11	2:C:958:GLU:HG3	1.89	0.55
2:C:1004:HIS:NE2	2:C:1033:VAL:O	2.36	0.55
2:A:494:MET:HE1	2:A:497:LEU:HD23	1.88	0.54
2:A:1133:ARG:HH11	2:A:1133:ARG:CG	2.21	0.54
2:A:1498:GLN:CB	2:D:2798:MET:SD	2.93	0.54
2:A:4495:PHE:HE1	2:A:4502:MET:HE1	1.71	0.54
2:B:1691:ASN:HB3	2:B:1694:MET:HE2	1.89	0.54
2:C:584:GLU:O	2:C:588:ILE:HG12	2.07	0.54
2:C:2119:LEU:HB2	2:C:2152:ASN:ND2	2.20	0.54
2:C:2905:ARG:HH11	2:C:2906:GLY:H	1.54	0.54
2:A:658:ASN:ND2	2:A:835:GLU:OE1	2.40	0.54
2:A:2723:LYS:HG2	2:A:2895:PHE:HZ	1.71	0.54
2:A:4502:MET:HG3	2:A:4582:ILE:HD11	1.89	0.54
2:B:1133:ARG:HH11	2:B:1133:ARG:CG	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1714:TYR:CE2	2:C:1718:ARG:HD2	2.43	0.54
2:A:355:LYS:O	2:A:359:SER:OG	2.23	0.54
2:A:1940:GLN:NE2	2:A:1964:GLU:OE2	2.40	0.54
2:A:2238:THR:HG22	2:A:2240:LEU:H	1.71	0.54
2:A:2688:MET:HE3	2:A:2688:MET:HA	1.90	0.54
2:A:3184:TYR:CE1	2:A:3197:LEU:HD13	2.43	0.54
2:D:2142:MET:CB	2:D:2192:MET:HE1	2.36	0.54
2:D:2852:TRP:HA	2:D:2855:LYS:NZ	2.22	0.54
2:D:3606:ALA:HB1	2:D:3610:ASN:HB2	1.88	0.54
2:D:4502:MET:HG3	2:D:4582:ILE:HD11	1.89	0.54
2:B:3234:VAL:HA	2:B:3238:ILE:HG12	1.89	0.54
2:A:136:SER:HB2	2:A:145:PHE:HA	1.88	0.54
2:A:891:GLU:HG2	2:A:978:PRO:HA	1.89	0.54
2:A:4618:THR:OG1	2:A:4619:GLU:OE1	2.24	0.54
2:A:4694:LEU:HD22	2:D:4265:LYS:HD2	1.90	0.54
2:D:2929:LEU:HD13	2:D:2971:ILE:HG12	1.88	0.54
2:B:2581:ARG:HB3	2:B:2584:MET:HG2	1.90	0.54
2:B:2852:TRP:HA	2:B:2855:LYS:NZ	2.22	0.54
2:B:3109:PHE:HA	2:B:3112:ILE:HG22	1.88	0.54
2:C:2688:MET:HA	2:C:2688:MET:HE3	1.90	0.54
2:C:3129:SER:O	2:C:3133:ILE:HG13	2.07	0.54
2:C:3234:VAL:HA	2:C:3238:ILE:HG12	1.89	0.54
2:A:584:GLU:O	2:A:588:ILE:HG12	2.07	0.54
2:A:2929:LEU:HD13	2:A:2971:ILE:HG12	1.88	0.54
2:A:3184:TYR:HE1	2:A:3197:LEU:HD13	1.71	0.54
2:A:4588:ILE:HG12	2:D:4287:TYR:HD2	1.71	0.54
2:D:1940:GLN:NE2	2:D:1964:GLU:OE2	2.40	0.54
2:D:2678:PRO:HD3	2:D:2978:HIS:CE1	2.43	0.54
2:D:4495:PHE:HE1	2:D:4502:MET:HE1	1.71	0.54
2:B:1950:ALA:HA	2:B:1953:MET:HE2	1.90	0.54
2:C:494:MET:HE1	2:C:497:LEU:HD23	1.88	0.54
2:D:952:ILE:HD11	2:D:958:GLU:HG3	1.89	0.54
2:D:2859:GLU:O	2:D:2862:SER:OG	2.16	0.54
2:B:842:GLN:HB2	2:B:1603:PHE:HB2	1.89	0.54
2:B:891:GLU:HG2	2:B:978:PRO:HA	1.89	0.54
2:B:2678:PRO:HD3	2:B:2978:HIS:CE1	2.43	0.54
2:B:2688:MET:HA	2:B:2688:MET:HE3	1.90	0.54
2:B:4481:TRP:HA	2:B:4484:ILE:HG22	1.88	0.54
2:B:4751:LYS:HD2	2:B:4754:ARG:HH11	1.73	0.54
2:C:15:ARG:NH1	2:C:111:ARG:O	2.40	0.54
2:C:4251:ASN:HD22	2:C:4297:PHE:HB2	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2905:ARG:HH11	2:A:2906:GLY:H	1.55	0.54
2:A:3661:VAL:HG23	2:A:3666:GLN:HG2	1.88	0.54
2:D:1133:ARG:HH11	2:D:1133:ARG:CG	2.21	0.54
2:D:3184:TYR:CE1	2:D:3197:LEU:HD13	2.43	0.54
2:D:3661:VAL:HG23	2:D:3666:GLN:HG2	1.89	0.54
2:B:494:MET:HE1	2:B:497:LEU:HD23	1.88	0.54
2:B:3184:TYR:CE1	2:B:3197:LEU:HD13	2.43	0.54
2:B:4618:THR:OG1	2:B:4619:GLU:OE1	2.24	0.54
2:A:76:ARG:HH22	2:D:3891:TYR:HA	1.72	0.54
2:A:1714:TYR:CE2	2:A:1718:ARG:HD2	2.43	0.54
2:A:2581:ARG:HB3	2:A:2584:MET:HG2	1.90	0.54
2:A:2852:TRP:HA	2:A:2855:LYS:NZ	2.22	0.54
2:A:4751:LYS:HD2	2:A:4754:ARG:HH11	1.73	0.54
2:D:1714:TYR:CE2	2:D:1718:ARG:HD2	2.43	0.54
2:D:1950:ALA:HA	2:D:1953:MET:HE2	1.90	0.54
2:B:414:ARG:HH11	2:B:414:ARG:CG	2.19	0.54
2:B:3002:GLU:OE2	2:B:3049:GLY:HA2	2.08	0.54
2:B:3070:LYS:NZ	2:B:3093:ILE:HG13	2.23	0.54
2:B:3129:SER:O	2:B:3133:ILE:HG13	2.07	0.54
2:B:4251:ASN:HD22	2:B:4297:PHE:HB2	1.72	0.54
2:C:1950:ALA:HA	2:C:1953:MET:HE2	1.90	0.54
2:C:3070:LYS:NZ	2:C:3093:ILE:HG13	2.23	0.54
2:C:4196:THR:HA	2:C:4199:GLU:HG3	1.90	0.54
2:A:15:ARG:NH1	2:A:111:ARG:O	2.40	0.54
2:A:842:GLN:HB2	2:A:1603:PHE:HB2	1.88	0.54
2:D:2212:LYS:HE2	2:D:3822:GLU:HG3	1.89	0.54
2:D:2688:MET:HA	2:D:2688:MET:HE3	1.90	0.54
2:B:655:MET:HB2	2:B:794:PHE:HE2	1.73	0.54
2:B:1714:TYR:CE2	2:B:1718:ARG:HD2	2.43	0.54
2:C:200:SER:OG	2:C:202:HIS:NE2	2.41	0.54
2:C:1940:GLN:NE2	2:C:1964:GLU:OE2	2.40	0.54
2:C:2678:PRO:HD3	2:C:2978:HIS:CE1	2.43	0.54
2:C:3184:TYR:CE1	2:C:3197:LEU:HD13	2.43	0.54
2:C:3637:GLU:HG2	2:C:3697:LYS:HE2	1.90	0.54
2:D:15:ARG:NH1	2:D:111:ARG:O	2.40	0.54
2:D:4196:THR:HA	2:D:4199:GLU:HG3	1.90	0.54
2:D:4251:ASN:HD22	2:D:4297:PHE:HB2	1.72	0.54
2:B:2139:GLU:HA	2:B:2192:MET:SD	2.48	0.54
2:B:2155:PHE:HA	2:B:2162:MET:HE3	1.90	0.54
2:C:1133:ARG:CG	2:C:1133:ARG:HH11	2.21	0.54
2:C:2155:PHE:HA	2:C:2162:MET:HE3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2212:LYS:HE2	2:A:3822:GLU:HG3	1.89	0.53
2:D:2245:ALA:HA	2:D:2248:MET:HE3	1.89	0.53
2:D:2905:ARG:HH11	2:D:2906:GLY:H	1.54	0.53
2:D:4107:GLU:OE1	2:D:4149:TYR:OH	2.23	0.53
2:B:952:ILE:HD11	2:B:958:GLU:HG3	1.89	0.53
2:B:3606:ALA:HB1	2:B:3610:ASN:HB2	1.88	0.53
2:B:3679:LYS:HG3	2:B:3681:LYS:O	2.09	0.53
2:C:4751:LYS:HD2	2:C:4754:ARG:HH11	1.73	0.53
2:A:1950:ALA:HA	2:A:1953:MET:HE2	1.90	0.53
2:A:1971:GLU:OE1	2:A:1975:MET:HE2	2.08	0.53
2:A:3234:VAL:HA	2:A:3238:ILE:HG12	1.89	0.53
2:D:1971:GLU:OE1	2:D:1975:MET:HE2	2.08	0.53
2:C:2581:ARG:HB3	2:C:2584:MET:HG2	1.90	0.53
2:C:3679:LYS:HG3	2:C:3681:LYS:O	2.09	0.53
2:A:13:PHE:HE1	2:A:176:ARG:HH21	1.57	0.53
2:A:952:ILE:HD11	2:A:958:GLU:HG3	1.89	0.53
2:A:2245:ALA:HA	2:A:2248:MET:HE3	1.89	0.53
2:A:3129:SER:O	2:A:3133:ILE:HG13	2.07	0.53
2:A:3323:MET:O	2:A:3327:LYS:HG2	2.09	0.53
2:A:4251:ASN:HD22	2:A:4297:PHE:HB2	1.72	0.53
2:D:1004:HIS:NE2	2:D:1033:VAL:O	2.35	0.53
2:D:1967:SER:O	2:D:1972:GLN:NE2	2.30	0.53
2:D:3234:VAL:HA	2:D:3238:ILE:HG12	1.89	0.53
2:B:1967:SER:O	2:B:1972:GLN:NE2	2.30	0.53
2:A:2139:GLU:HA	2:A:2192:MET:SD	2.48	0.53
2:D:13:PHE:HE1	2:D:176:ARG:HH21	1.57	0.53
2:D:219:SER:OG	2:D:349:MET:SD	2.64	0.53
2:D:3070:LYS:NZ	2:D:3093:ILE:HG13	2.23	0.53
2:D:3637:GLU:HG2	2:D:3697:LYS:HE2	1.90	0.53
2:B:658:ASN:ND2	2:B:835:GLU:OE1	2.40	0.53
2:B:3637:GLU:HG2	2:B:3697:LYS:HE2	1.90	0.53
2:C:13:PHE:HE1	2:C:176:ARG:HH21	1.57	0.53
2:C:2139:GLU:HA	2:C:2192:MET:SD	2.48	0.53
2:C:3002:GLU:OE2	2:C:3049:GLY:HA2	2.08	0.53
2:A:1979:PHE:CG	2:A:1993:ARG:HG2	2.44	0.53
2:A:3070:LYS:NZ	2:A:3093:ILE:HG13	2.23	0.53
2:D:1810:VAL:HB	2:D:1817:LEU:HD13	1.91	0.53
2:D:2642:ARG:NH1	2:D:2682:GLU:HB2	2.24	0.53
2:B:13:PHE:HE1	2:B:176:ARG:HH21	1.57	0.53
2:B:1979:PHE:CG	2:B:1993:ARG:HG2	2.44	0.53
2:B:4502:MET:HG3	2:B:4582:ILE:HD11	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:655:MET:HB2	2:A:794:PHE:HE2	1.73	0.53
2:A:2830:ASN:HB3	2:B:1435:GLY:HA3	1.90	0.53
2:A:3679:LYS:HG3	2:A:3681:LYS:O	2.09	0.53
2:D:1979:PHE:CG	2:D:1993:ARG:HG2	2.44	0.53
2:D:2351:ILE:O	2:D:2355:GLU:HG2	2.09	0.53
2:D:4751:LYS:HD2	2:D:4754:ARG:HH11	1.73	0.53
2:C:2142:MET:CB	2:C:2192:MET:HE1	2.36	0.53
2:C:4495:PHE:HE1	2:C:4502:MET:HE1	1.71	0.53
2:C:4502:MET:HG3	2:C:4582:ILE:HD11	1.90	0.53
2:A:200:SER:OG	2:A:202:HIS:NE2	2.41	0.53
2:A:2351:ILE:O	2:A:2355:GLU:HG2	2.09	0.53
2:A:2678:PRO:HD3	2:A:2978:HIS:CE1	2.43	0.53
2:A:3637:GLU:HG2	2:A:3697:LYS:HE2	1.90	0.53
2:A:4196:THR:HA	2:A:4199:GLU:HG3	1.90	0.53
2:D:4092:LYS:HD2	2:D:4129:PHE:CE1	2.44	0.53
2:B:3122:ILE:HD11	2:B:3167:PRO:HD3	1.91	0.53
2:C:877:HIS:HE1	2:C:950:VAL:HG23	1.74	0.53
2:C:3805:LEU:HD21	2:C:3888:PHE:HA	1.91	0.53
2:D:258:ARG:NH1	2:D:316:LEU:O	2.42	0.53
2:D:3002:GLU:OE2	2:D:3049:GLY:HA2	2.08	0.53
2:D:3323:MET:O	2:D:3327:LYS:HG2	2.09	0.53
2:D:3805:LEU:HD21	2:D:3888:PHE:HA	1.91	0.53
2:B:2642:ARG:NH1	2:B:2682:GLU:HB2	2.24	0.53
2:C:2642:ARG:NH1	2:C:2682:GLU:HB2	2.24	0.53
2:A:308:LEU:HD13	2:A:393:MET:HG3	1.91	0.53
2:A:2642:ARG:NH1	2:A:2682:GLU:HB2	2.24	0.53
2:A:3002:GLU:OE2	2:A:3049:GLY:HA2	2.08	0.53
2:D:655:MET:HB2	2:D:794:PHE:HE2	1.73	0.53
2:D:1270:VAL:HG22	2:D:1285:VAL:HG22	1.91	0.53
2:B:1477:HIS:ND1	2:B:1478:GLU:OE1	2.42	0.53
2:B:2351:ILE:O	2:B:2355:GLU:HG2	2.09	0.53
2:C:258:ARG:NH1	2:C:316:LEU:O	2.42	0.53
2:C:670:TYR:OH	2:C:818:GLY:O	2.25	0.53
2:C:3101:LEU:HA	2:C:3104:MET:HE3	1.90	0.53
2:C:3221:LEU:HD22	2:C:3226:ILE:HD13	1.91	0.53
2:A:219:SER:OG	2:A:349:MET:SD	2.64	0.53
2:A:1477:HIS:ND1	2:A:1478:GLU:OE1	2.42	0.53
2:D:355:LYS:O	2:D:359:SER:OG	2.23	0.53
2:D:1499:GLY:O	2:D:1502:ASN:ND2	2.42	0.53
2:D:3679:LYS:HG3	2:D:3681:LYS:O	2.09	0.53
2:B:355:LYS:O	2:B:359:SER:OG	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:877:HIS:HE1	2:B:950:VAL:HG23	1.74	0.53
2:B:1971:GLU:OE1	2:B:1975:MET:HE2	2.09	0.53
2:C:1499:GLY:O	2:C:1502:ASN:ND2	2.42	0.53
2:C:3122:ILE:HD11	2:C:3167:PRO:HD3	1.90	0.53
2:A:290:ARG:HB3	2:A:343:ARG:NH2	2.24	0.52
2:A:1810:VAL:HB	2:A:1817:LEU:HD13	1.91	0.52
2:A:3101:LEU:HA	2:A:3104:MET:HE3	1.90	0.52
2:A:3122:ILE:HD11	2:A:3167:PRO:HD3	1.91	0.52
2:D:200:SER:OG	2:D:202:HIS:NE2	2.41	0.52
2:D:305:TYR:OH	2:D:319:LYS:NZ	2.43	0.52
2:D:2581:ARG:HB3	2:D:2584:MET:HG2	1.90	0.52
2:B:200:SER:OG	2:B:202:HIS:NE2	2.41	0.52
2:B:3221:LEU:HD22	2:B:3226:ILE:HD13	1.91	0.52
2:B:4092:LYS:HD2	2:B:4129:PHE:CE1	2.44	0.52
2:C:141:ASP:OD2	2:C:144:ALA:N	2.37	0.52
2:C:1971:GLU:OE1	2:C:1975:MET:HE2	2.08	0.52
2:D:2139:GLU:HA	2:D:2192:MET:SD	2.48	0.52
2:B:562:LEU:HG	2:B:600:LEU:HD13	1.92	0.52
2:B:1499:GLY:O	2:B:1502:ASN:ND2	2.42	0.52
2:B:3101:LEU:HA	2:B:3104:MET:HE3	1.90	0.52
2:C:661:LEU:HD23	2:C:673:TRP:CD1	2.45	0.52
2:A:305:TYR:OH	2:A:319:LYS:NZ	2.43	0.52
2:A:4092:LYS:HD2	2:A:4129:PHE:CE1	2.44	0.52
2:D:661:LEU:HD23	2:D:673:TRP:CD1	2.45	0.52
2:D:3129:SER:O	2:D:3133:ILE:HG13	2.07	0.52
2:D:3221:LEU:HD22	2:D:3226:ILE:HD13	1.91	0.52
2:B:290:ARG:HB3	2:B:343:ARG:NH2	2.24	0.52
2:B:3323:MET:O	2:B:3327:LYS:HG2	2.09	0.52
2:B:3939:ARG:HH12	2:C:173:GLU:HG2	1.74	0.52
2:C:290:ARG:HB3	2:C:343:ARG:NH2	2.24	0.52
2:C:932:ASN:O	2:C:935:MET:HB3	2.10	0.52
2:C:3323:MET:O	2:C:3327:LYS:HG2	2.09	0.52
2:A:2142:MET:CB	2:A:2192:MET:HE1	2.36	0.52
2:A:2155:PHE:HA	2:A:2162:MET:HE3	1.90	0.52
2:B:3187:LYS:O	2:B:3188:SER:OG	2.23	0.52
2:C:1270:VAL:HG22	2:C:1285:VAL:HG22	1.91	0.52
2:C:1967:SER:O	2:C:1972:GLN:NE2	2.30	0.52
2:C:3147:TYR:HD1	2:C:3150:ARG:HE	1.58	0.52
2:C:4251:ASN:ND2	2:C:4293:THR:O	2.34	0.52
2:D:3147:TYR:HD1	2:D:3150:ARG:HE	1.58	0.52
2:B:932:ASN:O	2:B:935:MET:HB3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1270:VAL:HG22	2:B:1285:VAL:HG22	1.91	0.52
2:C:308:LEU:HD13	2:C:393:MET:HG3	1.91	0.52
2:C:562:LEU:HG	2:C:600:LEU:HD13	1.92	0.52
2:A:462:TYR:CE2	2:A:485:ARG:HD3	2.45	0.52
2:A:661:LEU:HD23	2:A:673:TRP:CD1	2.44	0.52
2:A:801:ARG:HG2	2:A:1618:LEU:HA	1.92	0.52
2:A:1644:LEU:HB3	2:A:1651:LEU:HD13	1.92	0.52
2:B:238:HIS:HB3	2:B:243:GLU:HG3	1.92	0.52
2:B:305:TYR:OH	2:B:319:LYS:NZ	2.43	0.52
2:C:655:MET:HB2	2:C:794:PHE:HE2	1.73	0.52
2:A:932:ASN:O	2:A:935:MET:HB3	2.10	0.52
2:A:1499:GLY:O	2:A:1502:ASN:ND2	2.42	0.52
2:D:877:HIS:HE1	2:D:950:VAL:HG23	1.74	0.52
2:D:2155:PHE:HA	2:D:2162:MET:HE3	1.90	0.52
2:B:2010:GLU:N	2:B:2010:GLU:OE2	2.43	0.52
2:B:2852:TRP:HA	2:B:2855:LYS:HZ2	1.75	0.52
2:B:3805:LEU:HD21	2:B:3888:PHE:HA	1.91	0.52
2:C:1810:VAL:HB	2:C:1817:LEU:HD13	1.90	0.52
2:C:4092:LYS:HD2	2:C:4129:PHE:CE1	2.44	0.52
2:D:462:TYR:CE2	2:D:485:ARG:HD3	2.45	0.52
2:D:3122:ILE:HD11	2:D:3167:PRO:HD3	1.91	0.52
2:D:4577:ILE:O	2:D:4581:VAL:HG23	2.10	0.52
2:B:801:ARG:HG2	2:B:1618:LEU:HA	1.92	0.52
2:B:1744:LYS:NZ	2:B:2002:ASP:OD1	2.39	0.52
2:B:4196:THR:HA	2:B:4199:GLU:HG3	1.90	0.52
2:A:877:HIS:HE1	2:A:950:VAL:HG23	1.74	0.52
2:A:3221:LEU:HD22	2:A:3226:ILE:HD13	1.91	0.52
2:A:3227:ARG:HE	2:A:3290:ILE:HG13	1.75	0.52
2:D:62:LEU:O	2:D:66:THR:HG23	2.10	0.52
2:D:932:ASN:O	2:D:935:MET:HB3	2.10	0.52
2:B:661:LEU:HD23	2:B:673:TRP:CD1	2.44	0.52
2:B:3156:GLY:HA2	2:B:3237:VAL:HG13	1.92	0.52
2:C:1644:LEU:HB3	2:C:1651:LEU:HD13	1.92	0.52
2:C:2351:ILE:O	2:C:2355:GLU:HG2	2.09	0.52
2:A:238:HIS:HB3	2:A:243:GLU:HG3	1.92	0.52
2:A:258:ARG:NH1	2:A:316:LEU:O	2.42	0.52
2:A:562:LEU:HG	2:A:600:LEU:HD13	1.92	0.52
2:A:682:THR:HG21	2:A:750:ARG:HA	1.92	0.52
2:A:2010:GLU:N	2:A:2010:GLU:OE2	2.43	0.52
2:A:4251:ASN:ND2	2:A:4293:THR:O	2.34	0.52
2:D:290:ARG:HB3	2:D:343:ARG:NH2	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1477:HIS:ND1	2:D:1478:GLU:OE1	2.42	0.52
2:D:4790:ARG:HH12	2:C:4557:VAL:HG21	1.75	0.52
2:B:462:TYR:CE2	2:B:485:ARG:HD3	2.45	0.52
2:B:682:THR:HG21	2:B:750:ARG:HA	1.92	0.52
2:B:1048:ASP:OD1	2:B:1049:SER:N	2.43	0.52
2:B:1287:GLN:NE2	2:B:1549:SER:O	2.43	0.52
2:B:3227:ARG:HE	2:B:3290:ILE:HG13	1.75	0.52
2:C:305:TYR:OH	2:C:319:LYS:NZ	2.43	0.52
2:C:4092:LYS:HD2	2:C:4129:PHE:HE1	1.75	0.52
2:A:4809:MET:HE2	2:D:4517:LEU:O	2.10	0.51
2:D:1048:ASP:OD1	2:D:1049:SER:N	2.43	0.51
2:D:3156:GLY:HA2	2:D:3237:VAL:HG13	1.92	0.51
2:B:1810:VAL:HB	2:B:1817:LEU:HD13	1.91	0.51
2:B:3128:VAL:HG13	2:B:3183:ILE:HD13	1.93	0.51
2:C:2344:LEU:HD22	2:C:2434:GLY:HA3	1.92	0.51
2:C:3156:GLY:HA2	2:C:3237:VAL:HG13	1.92	0.51
2:A:3805:LEU:HD21	2:A:3888:PHE:HA	1.91	0.51
2:D:670:TYR:OH	2:D:818:GLY:O	2.25	0.51
2:D:3227:ARG:HE	2:D:3290:ILE:HG13	1.75	0.51
2:D:4092:LYS:HD2	2:D:4129:PHE:HE1	1.75	0.51
2:B:35:LEU:HD22	2:B:49:LEU:HB3	1.92	0.51
2:B:258:ARG:NH1	2:B:316:LEU:O	2.42	0.51
2:B:4674:LYS:HA	2:B:4677:LEU:HD12	1.91	0.51
2:C:1287:GLN:NE2	2:C:1549:SER:O	2.43	0.51
2:C:1979:PHE:CG	2:C:1993:ARG:HG2	2.44	0.51
2:C:4107:GLU:OE1	2:C:4149:TYR:OH	2.23	0.51
2:A:1270:VAL:HG22	2:A:1285:VAL:HG22	1.91	0.51
2:D:35:LEU:HD22	2:D:49:LEU:HB3	1.92	0.51
2:D:308:LEU:HD13	2:D:393:MET:HG3	1.90	0.51
2:D:1133:ARG:HH11	2:D:1133:ARG:HG3	1.76	0.51
2:D:2344:LEU:HD22	2:D:2434:GLY:HA3	1.92	0.51
2:B:1267:HIS:HB2	2:B:1268:ILE:HD12	1.92	0.51
2:B:1432:ILE:HB	2:B:1505:LEU:HD23	1.93	0.51
2:B:3147:TYR:HD1	2:B:3150:ARG:HE	1.58	0.51
2:C:893:TRP:O	2:C:897:LYS:HG2	2.10	0.51
2:C:1267:HIS:HB2	2:C:1268:ILE:HD12	1.92	0.51
1:H:24:VAL:HG12	1:H:105:LEU:HD12	1.92	0.51
2:A:3156:GLY:HA2	2:A:3237:VAL:HG13	1.92	0.51
2:A:4674:LYS:HA	2:A:4677:LEU:HD12	1.91	0.51
2:D:801:ARG:HG2	2:D:1618:LEU:HA	1.92	0.51
2:D:1113:MET:HG2	2:D:1207:LEU:HD23	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1113:MET:HG2	2:B:1207:LEU:HD23	1.93	0.51
2:B:4092:LYS:HD2	2:B:4129:PHE:HE1	1.75	0.51
2:B:4640:PHE:HB3	2:B:4650:LYS:HE3	1.93	0.51
2:C:878:LEU:HD13	2:C:950:VAL:HG21	1.93	0.51
2:C:4674:LYS:HA	2:C:4677:LEU:HD12	1.91	0.51
2:A:893:TRP:O	2:A:897:LYS:HG2	2.10	0.51
2:A:1048:ASP:OD1	2:A:1049:SER:N	2.43	0.51
2:A:1435:GLY:HA2	2:D:2831:VAL:HG12	1.93	0.51
2:A:3062:ASP:OD1	2:A:3129:SER:OG	2.19	0.51
2:A:3128:VAL:O	2:A:3132:ARG:HG3	2.11	0.51
2:A:4248:LEU:HG	2:A:4297:PHE:CE1	2.46	0.51
2:D:238:HIS:HB3	2:D:243:GLU:HG3	1.92	0.51
2:D:4248:LEU:HG	2:D:4297:PHE:CE1	2.46	0.51
2:D:4908:HIS:HA	2:D:4912:GLU:HB2	1.93	0.51
2:B:308:LEU:HD13	2:B:393:MET:HG3	1.90	0.51
2:B:946:LEU:HB3	2:B:995:MET:HE1	1.93	0.51
2:B:2436:ILE:HA	2:B:2465:LYS:HE3	1.93	0.51
2:C:2010:GLU:OE2	2:C:2010:GLU:N	2.43	0.51
2:A:3128:VAL:HG13	2:A:3183:ILE:HD13	1.92	0.51
2:A:4092:LYS:HD2	2:A:4129:PHE:HE1	1.75	0.51
2:A:4577:ILE:O	2:A:4581:VAL:HG23	2.10	0.51
2:D:893:TRP:O	2:D:897:LYS:HG2	2.10	0.51
2:D:1109:THR:O	2:D:1113:MET:HE1	2.11	0.51
2:D:1267:HIS:HB2	2:D:1268:ILE:HD12	1.92	0.51
2:D:1644:LEU:HB3	2:D:1651:LEU:HD13	1.92	0.51
2:D:1766:PRO:HG3	2:D:1780:PRO:HB3	1.92	0.51
2:D:2010:GLU:N	2:D:2010:GLU:OE2	2.43	0.51
2:D:3014:LEU:O	2:D:3018:ARG:HD2	2.11	0.51
2:D:3178:HIS:CE1	2:D:3265:CYS:HA	2.46	0.51
2:B:1109:THR:O	2:B:1113:MET:HE1	2.11	0.51
2:B:4019:MET:HE1	2:B:4065:PHE:CD2	2.46	0.51
2:C:238:HIS:HB3	2:C:243:GLU:HG3	1.92	0.51
2:C:2831:VAL:O	2:C:2894:LYS:NZ	2.41	0.51
2:C:3014:LEU:O	2:C:3018:ARG:HD2	2.11	0.51
2:C:3227:ARG:HE	2:C:3290:ILE:HG13	1.75	0.51
2:C:4753:LEU:HA	2:C:4756:ILE:HD12	1.93	0.51
2:A:2721:ILE:HD13	2:A:2776:LYS:HG2	1.93	0.51
2:D:562:LEU:HG	2:D:600:LEU:HD13	1.92	0.51
2:D:1433:PHE:HZ	2:D:1554:GLN:HE21	1.59	0.51
2:D:3187:LYS:O	2:D:3188:SER:OG	2.23	0.51
2:B:3996:GLY:O	2:B:4000:VAL:HG23	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:4577:ILE:O	2:B:4581:VAL:HG23	2.10	0.51
2:C:946:LEU:HB3	2:C:995:MET:HE1	1.93	0.51
2:C:1048:ASP:OD1	2:C:1049:SER:N	2.43	0.51
2:C:1477:HIS:ND1	2:C:1478:GLU:OE1	2.42	0.51
2:C:4248:LEU:HG	2:C:4297:PHE:CE1	2.46	0.51
2:A:62:LEU:O	2:A:66:THR:HG23	2.10	0.51
2:A:2436:ILE:HA	2:A:2465:LYS:HE3	1.93	0.51
2:A:4620:GLN:OE1	2:A:4632:ARG:NH2	2.43	0.51
2:D:878:LEU:HD13	2:D:950:VAL:HG21	1.93	0.51
2:D:3128:VAL:O	2:D:3132:ARG:HG3	2.11	0.51
2:D:3149:GLU:O	2:D:3152:ARG:HG2	2.11	0.51
2:D:4674:LYS:HA	2:D:4677:LEU:HD12	1.91	0.51
2:B:2344:LEU:HD22	2:B:2434:GLY:HA3	1.92	0.51
2:B:4248:LEU:HG	2:B:4297:PHE:CE1	2.46	0.51
2:C:15:ARG:HB3	2:C:18:ASP:CG	2.36	0.51
2:C:801:ARG:HG2	2:C:1618:LEU:HA	1.92	0.51
2:C:3128:VAL:HG13	2:C:3183:ILE:HD13	1.93	0.51
2:C:3149:GLU:O	2:C:3152:ARG:HG2	2.11	0.51
2:A:2830:ASN:CB	2:B:1435:GLY:HA3	2.40	0.51
1:E:24:VAL:HG12	1:E:105:LEU:HD12	1.92	0.51
2:D:15:ARG:HB3	2:D:18:ASP:CG	2.36	0.51
2:D:21:VAL:HG13	2:D:217:ILE:HG13	1.93	0.51
2:D:448:PRO:HB2	2:D:451:SER:OG	2.11	0.51
2:D:948:CYS:SG	2:D:1064:LEU:HB3	2.51	0.51
2:D:2721:ILE:HD13	2:D:2776:LYS:HG2	1.93	0.51
2:D:3101:LEU:HA	2:D:3104:MET:HE3	1.90	0.51
2:D:3147:TYR:HA	2:D:3150:ARG:HG2	1.92	0.51
2:D:4753:LEU:HA	2:D:4756:ILE:HD12	1.93	0.51
2:B:62:LEU:O	2:B:66:THR:HG23	2.10	0.51
2:B:2782:MET:HE1	2:B:2896:LEU:HD11	1.93	0.51
2:B:4251:ASN:ND2	2:B:4293:THR:O	2.34	0.51
2:C:62:LEU:O	2:C:66:THR:HG23	2.10	0.51
2:C:462:TYR:CE2	2:C:485:ARG:HD3	2.45	0.51
2:C:1109:THR:O	2:C:1113:MET:HE1	2.11	0.51
2:C:1113:MET:HG2	2:C:1207:LEU:HD23	1.93	0.51
2:C:1721:MET:HA	2:C:1721:MET:HE3	1.93	0.51
2:A:1113:MET:HG2	2:A:1207:LEU:HD23	1.93	0.51
2:A:1432:ILE:HB	2:A:1505:LEU:HD23	1.93	0.51
2:A:2782:MET:HE1	2:A:2896:LEU:HD11	1.93	0.51
2:A:3149:GLU:O	2:A:3152:ARG:HG2	2.11	0.51
2:D:4648:PHE:HD2	2:D:4651:ARG:HE	1.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:15:ARG:HB3	2:B:18:ASP:CG	2.36	0.51
2:C:219:SER:OG	2:C:349:MET:SD	2.64	0.51
2:C:1432:ILE:HB	2:C:1505:LEU:HD23	1.93	0.51
2:C:1468:THR:HG23	2:C:1476:VAL:HG13	1.93	0.51
2:C:1766:PRO:HG3	2:C:1780:PRO:HB3	1.93	0.51
2:C:3147:TYR:HA	2:C:3150:ARG:HG2	1.92	0.51
2:C:4158:THR:O	2:C:4162:LYS:HG3	2.11	0.51
2:A:1133:ARG:HH11	2:A:1133:ARG:HG3	1.75	0.50
2:A:3147:TYR:HD1	2:A:3150:ARG:HE	1.58	0.50
2:D:3996:GLY:O	2:D:4000:VAL:HG23	2.11	0.50
2:D:4158:THR:O	2:D:4162:LYS:HG3	2.11	0.50
2:B:2837:LEU:O	2:B:2840:MET:HB2	2.11	0.50
2:C:948:CYS:SG	2:C:1064:LEU:HB3	2.51	0.50
2:A:21:VAL:HG13	2:A:217:ILE:HG13	1.93	0.50
2:A:35:LEU:HD22	2:A:49:LEU:HB3	1.92	0.50
2:A:948:CYS:SG	2:A:1064:LEU:HB3	2.51	0.50
2:A:1008:ALA:O	2:A:1012:ILE:HG12	2.12	0.50
2:A:3014:LEU:O	2:A:3018:ARG:HD2	2.11	0.50
2:A:3996:GLY:O	2:A:4000:VAL:HG23	2.11	0.50
2:A:4648:PHE:HD2	2:A:4651:ARG:HE	1.59	0.50
2:D:2581:ARG:NH1	2:D:2583:SER:OG	2.45	0.50
2:B:1471:ASP:OD1	2:B:1475:LYS:N	2.45	0.50
2:B:1721:MET:HA	2:B:1721:MET:HE3	1.93	0.50
2:C:2721:ILE:HD13	2:C:2776:LYS:HG2	1.93	0.50
2:C:2782:MET:HE1	2:C:2896:LEU:HD11	1.93	0.50
2:A:2837:LEU:O	2:A:2840:MET:HB2	2.11	0.50
2:D:162:ILE:HG23	2:D:181:LEU:HD11	1.93	0.50
2:D:682:THR:HG21	2:D:750:ARG:HA	1.92	0.50
2:D:1008:ALA:O	2:D:1012:ILE:HG12	2.12	0.50
2:D:3128:VAL:HG13	2:D:3183:ILE:HD13	1.92	0.50
2:B:1468:THR:HG23	2:B:1476:VAL:HG13	1.93	0.50
2:B:1979:PHE:HZ	2:B:1996:LEU:HB3	1.77	0.50
2:B:4625:ASP:O	2:B:4629:GLN:HG2	2.12	0.50
2:C:3128:VAL:O	2:C:3132:ARG:HG3	2.11	0.50
2:C:3130:CYS:HB3	2:C:3162:PHE:HZ	1.77	0.50
2:C:4577:ILE:O	2:C:4581:VAL:HG23	2.10	0.50
2:C:4625:ASP:O	2:C:4629:GLN:HG2	2.12	0.50
2:D:2436:ILE:HA	2:D:2465:LYS:HE3	1.93	0.50
2:B:893:TRP:O	2:B:897:LYS:HG2	2.10	0.50
2:B:1004:HIS:NE2	2:B:1033:VAL:O	2.35	0.50
2:B:1644:LEU:HB3	2:B:1651:LEU:HD13	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2009:ILE:HD12	2:B:2095:ILE:HG12	1.94	0.50
2:B:3130:CYS:HB3	2:B:3162:PHE:HZ	1.77	0.50
2:B:3149:GLU:O	2:B:3152:ARG:HG2	2.11	0.50
2:B:3246:MET:HA	2:B:3246:MET:CE	2.41	0.50
2:B:4158:THR:O	2:B:4162:LYS:HG3	2.11	0.50
2:B:4908:HIS:HA	2:B:4912:GLU:HB2	1.93	0.50
2:C:916:PRO:HB2	2:C:924:LEU:HA	1.94	0.50
2:C:1433:PHE:HZ	2:C:1554:GLN:HE21	1.59	0.50
2:A:1098:ALA:HA	2:A:1168:MET:HB2	1.94	0.50
2:A:1287:GLN:NE2	2:A:1549:SER:O	2.43	0.50
2:A:1471:ASP:OD1	2:A:1475:LYS:N	2.45	0.50
2:A:4908:HIS:HA	2:A:4912:GLU:HB2	1.93	0.50
2:B:322:ALA:HB1	2:B:327:THR:HG21	1.94	0.50
2:B:3014:LEU:O	2:B:3018:ARG:HD2	2.11	0.50
2:C:1979:PHE:HZ	2:C:1996:LEU:HB3	1.77	0.50
2:C:2798:MET:HA	2:C:2801:TYR:CD2	2.47	0.50
2:C:3246:MET:HA	2:C:3246:MET:CE	2.41	0.50
2:C:3996:GLY:O	2:C:4000:VAL:HG23	2.11	0.50
2:C:4908:HIS:HA	2:C:4912:GLU:HB2	1.93	0.50
2:A:448:PRO:HB2	2:A:451:SER:OG	2.11	0.50
2:A:1109:THR:O	2:A:1113:MET:HE1	2.11	0.50
2:A:1433:PHE:HZ	2:A:1554:GLN:HE21	1.59	0.50
2:A:1788:LYS:HG3	2:A:1834:PHE:CE1	2.47	0.50
2:A:1979:PHE:HZ	2:A:1996:LEU:HB3	1.77	0.50
2:A:2798:MET:HA	2:A:2801:TYR:CD2	2.47	0.50
2:A:3130:CYS:HB3	2:A:3162:PHE:HZ	1.77	0.50
2:A:3147:TYR:HA	2:A:3150:ARG:HG2	1.92	0.50
2:A:3246:MET:HA	2:A:3246:MET:CE	2.41	0.50
2:A:4625:ASP:O	2:A:4629:GLN:HG2	2.12	0.50
2:D:1788:LYS:HG3	2:D:1834:PHE:CE1	2.47	0.50
2:D:4640:PHE:HB3	2:D:4650:LYS:HE3	1.93	0.50
2:C:162:ILE:HG23	2:C:181:LEU:HD11	1.93	0.50
2:C:862:PHE:CZ	2:C:864:PRO:HG3	2.46	0.50
2:C:1133:ARG:HH11	2:C:1133:ARG:HG3	1.75	0.50
2:C:2009:ILE:HD12	2:C:2095:ILE:HG12	1.94	0.50
2:A:15:ARG:HB3	2:A:18:ASP:CG	2.36	0.50
2:A:76:ARG:HH12	2:D:3891:TYR:CA	2.25	0.50
2:A:878:LEU:HD13	2:A:950:VAL:HG21	1.93	0.50
2:A:2581:ARG:HG3	2:A:2582:PRO:HD2	1.94	0.50
2:A:2581:ARG:NH1	2:A:2583:SER:OG	2.45	0.50
2:A:4753:LEU:HA	2:A:4756:ILE:HD12	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:24:VAL:HG12	1:G:105:LEU:HD12	1.92	0.50
1:G:36:LYS:H	2:C:647:ARG:NH2	2.09	0.50
2:B:862:PHE:CZ	2:B:864:PRO:HG3	2.47	0.50
2:B:1766:PRO:HG3	2:B:1780:PRO:HB3	1.92	0.50
2:B:2581:ARG:HG3	2:B:2582:PRO:HD2	1.94	0.50
2:C:35:LEU:HD22	2:C:49:LEU:HB3	1.92	0.50
2:C:322:ALA:HB1	2:C:327:THR:HG21	1.94	0.50
2:C:2436:ILE:HA	2:C:2465:LYS:HE3	1.93	0.50
2:A:947:GLY:HA3	2:A:1067:PRO:HD3	1.94	0.50
2:A:1267:HIS:HB2	2:A:1268:ILE:HD12	1.92	0.50
2:A:1766:PRO:HG3	2:A:1780:PRO:HB3	1.92	0.50
2:A:3178:HIS:CE1	2:A:3265:CYS:HA	2.46	0.50
2:D:916:PRO:HB2	2:D:924:LEU:HA	1.94	0.50
2:D:946:LEU:HB3	2:D:995:MET:HE1	1.93	0.50
2:D:1432:ILE:HB	2:D:1505:LEU:HD23	1.93	0.50
2:D:1468:THR:HG23	2:D:1476:VAL:HG13	1.93	0.50
2:D:2837:LEU:O	2:D:2840:MET:HB2	2.11	0.50
2:D:4055:HIS:CD2	2:D:4057:HIS:HB2	2.47	0.50
2:D:4769:LEU:O	2:C:4753:LEU:HD21	2.11	0.50
2:B:448:PRO:HB2	2:B:451:SER:OG	2.11	0.50
2:B:878:LEU:HD13	2:B:950:VAL:HG21	1.93	0.50
2:B:916:PRO:HB2	2:B:924:LEU:HA	1.94	0.50
2:B:948:CYS:SG	2:B:1064:LEU:HB3	2.51	0.50
2:B:2244:ALA:O	2:B:2248:MET:HB2	2.12	0.50
2:B:3326:LEU:O	2:B:3330:ALA:N	2.45	0.50
2:B:4620:GLN:OE1	2:B:4632:ARG:NH2	2.43	0.50
2:C:394:HIS:CE1	2:C:396:GLU:HB2	2.47	0.50
2:C:2581:ARG:NH1	2:C:2583:SER:OG	2.45	0.50
2:A:946:LEU:HB3	2:A:995:MET:HE1	1.93	0.50
2:A:2465:LYS:NZ	2:A:2495:ASP:OD2	2.37	0.50
2:A:4019:MET:HE1	2:A:4065:PHE:CD2	2.46	0.50
2:D:1098:ALA:HA	2:D:1168:MET:HB2	1.94	0.50
2:D:1287:GLN:NE2	2:D:1549:SER:O	2.43	0.50
2:D:2244:ALA:O	2:D:2248:MET:HB2	2.12	0.50
2:D:3246:MET:HA	2:D:3246:MET:CE	2.41	0.50
2:B:2581:ARG:NH1	2:B:2583:SER:OG	2.45	0.50
2:B:3231:MET:HE2	2:B:3234:VAL:HB	1.94	0.50
2:C:184:VAL:HG22	2:C:191:TYR:CD1	2.47	0.50
2:C:682:THR:HG21	2:C:750:ARG:HA	1.92	0.50
2:C:1008:ALA:O	2:C:1012:ILE:HG12	2.12	0.50
2:C:1443:VAL:HG13	2:C:1543:VAL:HG22	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:2244:ALA:O	2:C:2248:MET:HB2	2.12	0.50
2:C:3326:LEU:O	2:C:3330:ALA:N	2.45	0.50
2:A:644:LEU:HD13	2:A:1630:LEU:HD21	1.94	0.49
2:A:661:LEU:O	2:A:788:PHE:N	2.37	0.49
2:A:2344:LEU:HD22	2:A:2434:GLY:HA3	1.92	0.49
2:A:3187:LYS:O	2:A:3188:SER:OG	2.23	0.49
2:A:4640:PHE:HB3	2:A:4650:LYS:HE3	1.93	0.49
2:D:862:PHE:CZ	2:D:864:PRO:HG3	2.46	0.49
2:D:1240:ALA:HB2	2:D:1247:ILE:HD11	1.94	0.49
2:D:3328:LYS:HA	2:D:3328:LYS:CE	2.32	0.49
2:D:4251:ASN:OD1	2:D:4293:THR:HG23	2.12	0.49
2:B:1008:ALA:O	2:B:1012:ILE:HG12	2.12	0.49
2:B:1133:ARG:HH11	2:B:1133:ARG:HG3	1.76	0.49
2:B:1788:LYS:HG3	2:B:1834:PHE:CE1	2.47	0.49
2:B:3019:ILE:HD13	2:B:3019:ILE:N	2.27	0.49
2:B:3128:VAL:O	2:B:3132:ARG:HG3	2.11	0.49
2:C:355:LYS:O	2:C:359:SER:OG	2.23	0.49
2:A:394:HIS:CE1	2:A:396:GLU:HB2	2.47	0.49
2:A:1838:ASP:O	2:A:1842:ILE:HG12	2.12	0.49
2:A:4055:HIS:CD2	2:A:4057:HIS:HB2	2.47	0.49
2:A:4158:THR:O	2:A:4162:LYS:HG3	2.11	0.49
2:A:4253:LEU:O	2:A:4257:ARG:HG3	2.12	0.49
1:F:63:GLY:HA3	1:F:75:LEU:HD21	1.95	0.49
2:D:184:VAL:HG22	2:D:191:TYR:CD1	2.47	0.49
2:D:1685:LEU:HB3	2:D:1706:LEU:HD12	1.94	0.49
2:D:3034:HIS:O	2:D:3038:GLN:HG2	2.12	0.49
2:D:3130:CYS:HB3	2:D:3162:PHE:HZ	1.77	0.49
2:D:4625:ASP:O	2:D:4629:GLN:HG2	2.12	0.49
2:B:1678:SER:HB2	2:B:1768:PHE:CE2	2.47	0.49
2:B:1838:ASP:O	2:B:1842:ILE:HG12	2.12	0.49
2:B:4055:HIS:CD2	2:B:4057:HIS:HB2	2.47	0.49
2:C:1098:ALA:HA	2:C:1168:MET:HB2	1.94	0.49
2:C:1471:ASP:OD1	2:C:1475:LYS:N	2.45	0.49
2:C:2277:CYS:HB3	2:C:2280:LEU:HB2	1.94	0.49
2:C:3853:ASP:N	2:C:3853:ASP:OD1	2.45	0.49
2:C:4253:LEU:O	2:C:4257:ARG:HG3	2.12	0.49
2:A:248:PRO:HG3	2:A:261:HIS:HE1	1.78	0.49
2:A:862:PHE:CZ	2:A:864:PRO:HG3	2.46	0.49
2:A:2500:ALA:HB1	2:A:2554:ARG:HH11	1.78	0.49
1:E:63:GLY:HA3	1:E:75:LEU:HD21	1.95	0.49
1:F:24:VAL:HG12	1:F:105:LEU:HD12	1.92	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:394:HIS:CE1	2:D:396:GLU:HB2	2.47	0.49
2:D:629:GLN:OE1	2:D:1669:ASN:ND2	2.34	0.49
2:D:963:LYS:HD2	2:D:979:ALA:HB3	1.94	0.49
2:D:1471:ASP:OD1	2:D:1475:LYS:N	2.45	0.49
2:D:1838:ASP:O	2:D:1842:ILE:HG12	2.13	0.49
2:B:394:HIS:CE1	2:B:396:GLU:HB2	2.47	0.49
2:B:644:LEU:HD13	2:B:1630:LEU:HD21	1.94	0.49
2:B:2500:ALA:HB1	2:B:2554:ARG:HH11	1.78	0.49
2:B:2721:ILE:HD13	2:B:2776:LYS:HG2	1.93	0.49
2:B:2798:MET:HA	2:B:2801:TYR:CD2	2.47	0.49
2:B:3147:TYR:HA	2:B:3150:ARG:HG2	1.92	0.49
2:B:4253:LEU:HA	2:B:4256:MET:HG3	1.95	0.49
2:C:21:VAL:HG13	2:C:217:ILE:HG13	1.93	0.49
2:C:448:PRO:HB2	2:C:451:SER:OG	2.12	0.49
2:C:798:ILE:HD12	2:C:800:VAL:HG22	1.95	0.49
2:C:3034:HIS:O	2:C:3038:GLN:HG2	2.12	0.49
2:C:4055:HIS:CD2	2:C:4057:HIS:HB2	2.47	0.49
1:H:63:GLY:HA3	1:H:75:LEU:HD21	1.95	0.49
2:A:1427:TYR:HB2	2:A:1563:VAL:HG11	1.95	0.49
1:G:90:GLY:HA2	2:C:638:PRO:HD3	1.94	0.49
2:D:248:PRO:HG3	2:D:261:HIS:HE1	1.77	0.49
2:D:947:GLY:HA3	2:D:1067:PRO:HD3	1.94	0.49
2:D:1443:VAL:HG13	2:D:1543:VAL:HG22	1.94	0.49
2:D:2277:CYS:HB3	2:D:2280:LEU:HB2	1.95	0.49
2:D:2500:ALA:HB1	2:D:2554:ARG:HH11	1.78	0.49
2:D:2798:MET:HA	2:D:2801:TYR:CD2	2.47	0.49
2:D:4790:ARG:HH22	2:C:4557:VAL:HG11	1.76	0.49
2:B:3697:LYS:HA	2:B:3700:HIS:NE2	2.28	0.49
2:B:4753:LEU:HA	2:B:4756:ILE:HD12	1.93	0.49
2:C:644:LEU:HD13	2:C:1630:LEU:HD21	1.94	0.49
2:C:661:LEU:O	2:C:788:PHE:N	2.37	0.49
2:C:1788:LYS:HG3	2:C:1834:PHE:CE1	2.47	0.49
2:C:2837:LEU:O	2:C:2840:MET:HB2	2.11	0.49
2:C:4648:PHE:HD2	2:C:4651:ARG:HE	1.59	0.49
2:A:798:ILE:HD12	2:A:800:VAL:HG22	1.95	0.49
2:A:963:LYS:HD2	2:A:979:ALA:HB3	1.94	0.49
2:A:1468:THR:HG23	2:A:1476:VAL:HG13	1.93	0.49
2:A:2835:ARG:HG3	2:A:2836:ASP:N	2.27	0.49
2:A:3326:LEU:O	2:A:3330:ALA:N	2.45	0.49
2:A:4251:ASN:OD1	2:A:4293:THR:HG23	2.12	0.49
2:D:261:HIS:CD2	2:D:263:GLU:HG3	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1019:GLY:HA3	2:D:1028:ARG:HB3	1.95	0.49
2:D:2009:ILE:HD12	2:D:2095:ILE:HG12	1.94	0.49
2:D:2769:GLU:HA	2:D:2772:ARG:HB2	1.94	0.49
2:D:4023:LEU:HD13	2:D:4066:LEU:HD21	1.95	0.49
2:D:4253:LEU:O	2:D:4257:ARG:HG3	2.12	0.49
2:B:248:PRO:HG3	2:B:261:HIS:HE1	1.78	0.49
2:B:261:HIS:CD2	2:B:263:GLU:HG3	2.48	0.49
2:B:798:ILE:HD12	2:B:800:VAL:HG22	1.95	0.49
2:B:1427:TYR:HB2	2:B:1563:VAL:HG11	1.95	0.49
2:B:2202:TYR:O	2:B:2206:ILE:HG12	2.13	0.49
2:C:1968:PRO:O	2:C:1972:GLN:HG3	2.13	0.49
2:C:4640:PHE:HB3	2:C:4650:LYS:HE3	1.93	0.49
2:C:4941:TRP:NE1	2:C:4945:GLN:NE2	2.60	0.49
2:A:162:ILE:HG23	2:A:181:LEU:HD11	1.93	0.49
2:A:892:LEU:HD21	2:A:1052:GLU:HB3	1.95	0.49
2:A:1678:SER:HB2	2:A:1768:PHE:CE2	2.47	0.49
2:A:2009:ILE:HD12	2:A:2095:ILE:HG12	1.94	0.49
2:A:2769:GLU:HA	2:A:2772:ARG:HB2	1.95	0.49
2:A:3697:LYS:HA	2:A:3700:HIS:NE2	2.28	0.49
2:A:3853:ASP:OD1	2:A:3853:ASP:N	2.45	0.49
2:A:4253:LEU:HA	2:A:4256:MET:HG3	1.95	0.49
2:D:798:ILE:HD12	2:D:800:VAL:HG22	1.95	0.49
2:D:1678:SER:HB2	2:D:1768:PHE:CE2	2.47	0.49
2:D:3231:MET:HE2	2:D:3234:VAL:HB	1.94	0.49
2:B:21:VAL:HG13	2:B:217:ILE:HG13	1.93	0.49
2:B:184:VAL:HG22	2:B:191:TYR:CD1	2.47	0.49
2:B:1098:ALA:HA	2:B:1168:MET:HB2	1.94	0.49
2:B:1968:PRO:O	2:B:1972:GLN:HG3	2.13	0.49
2:B:2465:LYS:NZ	2:B:2495:ASP:OD2	2.37	0.49
2:B:4251:ASN:OD1	2:B:4293:THR:HG23	2.12	0.49
2:B:4630:TRP:CZ2	2:B:4708:TRP:HA	2.48	0.49
2:B:4648:PHE:HD2	2:B:4651:ARG:HE	1.59	0.49
2:C:1019:GLY:HA3	2:C:1028:ARG:HB3	1.95	0.49
2:C:2500:ALA:HB1	2:C:2554:ARG:HH11	1.78	0.49
2:C:2789:ILE:HD11	2:C:2896:LEU:HD22	1.95	0.49
2:C:3697:LYS:HA	2:C:3700:HIS:NE2	2.28	0.49
2:C:4251:ASN:OD1	2:C:4293:THR:HG23	2.12	0.49
2:A:1721:MET:HE3	2:A:1721:MET:HA	1.93	0.49
2:A:4630:TRP:CZ2	2:A:4708:TRP:HA	2.48	0.49
2:A:4773:LEU:HD22	2:D:4753:LEU:HD22	1.94	0.49
2:D:892:LEU:HD21	2:D:1052:GLU:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2782:MET:HE1	2:D:2896:LEU:HD11	1.93	0.49
2:D:3853:ASP:OD1	2:D:3853:ASP:N	2.45	0.49
2:B:892:LEU:HD21	2:B:1052:GLU:HB3	1.95	0.49
2:B:1069:GLN:NE2	2:B:1070:ASP:O	2.46	0.49
2:B:1685:LEU:HD22	2:B:1706:LEU:HB2	1.95	0.49
2:B:3328:LYS:HA	2:B:3328:LYS:CE	2.32	0.49
2:B:4253:LEU:O	2:B:4257:ARG:HG3	2.12	0.49
2:C:1240:ALA:HB2	2:C:1247:ILE:HD11	1.94	0.49
2:C:4620:GLN:OE1	2:C:4632:ARG:NH2	2.43	0.49
2:A:184:VAL:HG22	2:A:191:TYR:CD1	2.47	0.49
2:A:916:PRO:HB2	2:A:924:LEU:HA	1.94	0.49
2:A:1019:GLY:HA3	2:A:1028:ARG:HB3	1.95	0.49
2:A:2651:ALA:O	2:A:2655:LYS:HB2	2.13	0.49
2:A:3034:HIS:O	2:A:3038:GLN:HG2	2.12	0.49
2:A:3328:LYS:HA	2:A:3328:LYS:CE	2.32	0.49
1:G:63:GLY:HA3	1:G:75:LEU:HD21	1.95	0.49
2:D:1427:TYR:HB2	2:D:1563:VAL:HG11	1.95	0.49
2:D:1721:MET:HA	2:D:1721:MET:HE3	1.93	0.49
2:D:1758:ARG:HG3	2:D:1759:PRO:HD2	1.95	0.49
2:D:2789:ILE:HD11	2:D:2896:LEU:HD22	1.95	0.49
2:D:2835:ARG:HG3	2:D:2836:ASP:N	2.27	0.49
2:D:2884:LYS:O	2:D:2887:GLU:HG3	2.13	0.49
2:B:947:GLY:HA3	2:B:1067:PRO:HD3	1.94	0.49
2:B:1100:ARG:NH1	2:B:1234:GLU:O	2.46	0.49
2:B:2943:PHE:O	2:B:2947:SER:OG	2.22	0.49
2:B:4023:LEU:HD13	2:B:4066:LEU:HD21	1.95	0.49
2:C:892:LEU:HD21	2:C:1052:GLU:HB3	1.95	0.49
2:A:2244:ALA:O	2:A:2248:MET:HB2	2.12	0.49
2:A:4732:GLY:HA2	2:A:4738:PHE:HB2	1.95	0.49
2:D:1732:GLU:O	2:D:1736:ILE:HG13	2.13	0.49
2:D:3019:ILE:HD13	2:D:3019:ILE:N	2.27	0.49
2:D:4271:VAL:O	2:D:4271:VAL:HG12	2.13	0.49
2:D:4630:TRP:CZ2	2:D:4708:TRP:HA	2.48	0.49
2:B:2789:ILE:HD11	2:B:2896:LEU:HD22	1.95	0.49
2:B:4271:VAL:O	2:B:4271:VAL:HG12	2.13	0.49
2:C:1436:GLN:HG2	2:C:1552:VAL:HG23	1.95	0.49
2:C:1685:LEU:HD22	2:C:1706:LEU:HB2	1.95	0.49
2:C:3019:ILE:HD13	2:C:3019:ILE:N	2.27	0.49
2:C:4035:TYR:CE1	2:C:4050:LYS:HG3	2.48	0.49
2:A:261:HIS:CD2	2:A:263:GLU:HG3	2.48	0.49
2:A:2202:TYR:O	2:A:2206:ILE:HG12	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3019:ILE:HD13	2:A:3019:ILE:N	2.27	0.49
2:A:4155:SER:O	2:A:4159:GLN:HG2	2.13	0.49
2:D:3043:ARG:O	2:D:3047:LYS:HG2	2.13	0.49
2:D:3326:LEU:O	2:D:3330:ALA:N	2.45	0.49
2:D:3697:LYS:HA	2:D:3700:HIS:NE2	2.28	0.49
2:B:3178:HIS:CE1	2:B:3265:CYS:HA	2.46	0.49
2:B:4495:PHE:CE1	2:B:4502:MET:HE1	2.48	0.49
2:C:23:GLN:HG2	2:C:34:LYS:HD2	1.95	0.49
2:C:963:LYS:HD2	2:C:979:ALA:HB3	1.94	0.49
2:C:1100:ARG:NH1	2:C:1234:GLU:O	2.46	0.49
2:C:1678:SER:HB2	2:C:1768:PHE:CE2	2.47	0.49
2:C:4630:TRP:HH2	2:C:4707:MET:HE3	1.78	0.49
2:A:2277:CYS:HB3	2:A:2280:LEU:HB2	1.94	0.48
2:A:2698:GLU:O	2:A:2698:GLU:HG2	2.12	0.48
2:A:2789:ILE:HD11	2:A:2896:LEU:HD22	1.95	0.48
2:A:4941:TRP:NE1	2:A:4945:GLN:NE2	2.60	0.48
2:D:4035:TYR:CE1	2:D:4050:LYS:HG3	2.48	0.48
2:B:162:ILE:HG23	2:B:181:LEU:HD11	1.93	0.48
2:B:963:LYS:HD2	2:B:979:ALA:HB3	1.94	0.48
2:B:1433:PHE:HZ	2:B:1554:GLN:HE21	1.59	0.48
2:B:3043:ARG:O	2:B:3047:LYS:HG2	2.13	0.48
2:B:3121:LEU:HD23	2:B:3122:ILE:HG23	1.94	0.48
2:B:4155:SER:O	2:B:4159:GLN:HG2	2.13	0.48
2:C:248:PRO:HG3	2:C:261:HIS:HE1	1.78	0.48
2:C:1069:GLN:NE2	2:C:1070:ASP:O	2.46	0.48
2:C:1088:PHE:CE1	2:C:1207:LEU:HD12	2.48	0.48
2:C:1732:GLU:O	2:C:1736:ILE:HG13	2.13	0.48
2:C:3043:ARG:O	2:C:3047:LYS:HG2	2.13	0.48
2:C:3231:MET:HE2	2:C:3234:VAL:HB	1.94	0.48
2:C:4253:LEU:HA	2:C:4256:MET:HG3	1.95	0.48
2:A:23:GLN:HG2	2:A:34:LYS:HD2	1.95	0.48
2:A:1088:PHE:CE1	2:A:1207:LEU:HD12	2.48	0.48
2:A:1240:ALA:HB2	2:A:1247:ILE:HD11	1.94	0.48
2:A:2068:ARG:NH1	2:A:2072:GLU:OE1	2.46	0.48
2:A:2162:MET:SD	2:A:2167:MET:HE2	2.53	0.48
2:A:2488:LEU:HD21	2:A:2548:LEU:HD22	1.95	0.48
2:A:4271:VAL:HG12	2:A:4271:VAL:O	2.13	0.48
2:A:4630:TRP:HH2	2:A:4707:MET:HE3	1.78	0.48
2:D:644:LEU:HD13	2:D:1630:LEU:HD21	1.94	0.48
2:D:1069:GLN:NE2	2:D:1070:ASP:O	2.46	0.48
2:D:1088:PHE:CE1	2:D:1207:LEU:HD12	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1306:MET:SD	2:D:1585:ARG:HD3	2.54	0.48
2:D:1968:PRO:O	2:D:1972:GLN:HG3	2.13	0.48
2:D:1979:PHE:HZ	2:D:1996:LEU:HB3	1.77	0.48
2:B:1019:GLY:HA3	2:B:1028:ARG:HB3	1.95	0.48
2:B:3034:HIS:O	2:B:3038:GLN:HG2	2.12	0.48
2:B:3853:ASP:OD1	2:B:3853:ASP:N	2.45	0.48
2:C:1685:LEU:O	2:C:1689:ILE:HG12	2.14	0.48
2:C:1758:ARG:HG3	2:C:1759:PRO:HD2	1.95	0.48
2:C:2835:ARG:HG3	2:C:2836:ASP:N	2.27	0.48
2:C:2884:LYS:O	2:C:2887:GLU:HG3	2.13	0.48
2:A:849:ASP:OD1	2:A:1214:ARG:NE	2.46	0.48
2:A:1306:MET:SD	2:A:1585:ARG:HD3	2.54	0.48
2:A:3312:PRO:O	2:A:3316:LYS:HG2	2.14	0.48
2:A:4046:ARG:O	2:A:4050:LYS:HG2	2.14	0.48
2:A:4588:ILE:HG12	2:D:4287:TYR:CD2	2.47	0.48
2:D:322:ALA:HB1	2:D:327:THR:HG21	1.94	0.48
2:D:2581:ARG:HG3	2:D:2582:PRO:HD2	1.94	0.48
2:D:4155:SER:O	2:D:4159:GLN:HG2	2.13	0.48
2:D:4630:TRP:HH2	2:D:4707:MET:HE3	1.78	0.48
2:D:4732:GLY:HA2	2:D:4738:PHE:HB2	1.95	0.48
2:B:1436:GLN:HG2	2:B:1552:VAL:HG23	1.95	0.48
2:B:2277:CYS:HB3	2:B:2280:LEU:HB2	1.94	0.48
2:B:4035:TYR:CE1	2:B:4050:LYS:HG3	2.48	0.48
2:B:4199:GLU:HB3	2:B:4597:LEU:HD13	1.96	0.48
2:C:947:GLY:HA3	2:C:1067:PRO:HD3	1.94	0.48
2:C:2581:ARG:HG3	2:C:2582:PRO:HD2	1.94	0.48
2:C:2693:SER:HB2	2:C:2704:GLN:HB2	1.95	0.48
2:C:2698:GLU:O	2:C:2698:GLU:HG2	2.12	0.48
2:A:1100:ARG:NH1	2:A:1234:GLU:O	2.46	0.48
2:A:1685:LEU:HD22	2:A:1706:LEU:HB2	1.95	0.48
2:A:3266:THR:OG1	2:A:3268:LEU:HG	2.14	0.48
2:D:849:ASP:OD1	2:D:1214:ARG:NE	2.46	0.48
2:D:2162:MET:SD	2:D:2167:MET:HE2	2.53	0.48
2:B:1088:PHE:CE1	2:B:1207:LEU:HD12	2.48	0.48
2:B:1443:VAL:HG13	2:B:1543:VAL:HG22	1.94	0.48
2:B:3266:THR:OG1	2:B:3268:LEU:HG	2.14	0.48
2:C:4199:GLU:HB3	2:C:4597:LEU:HD13	1.96	0.48
2:A:1069:GLN:NE2	2:A:1070:ASP:O	2.46	0.48
2:A:1685:LEU:O	2:A:1689:ILE:HG12	2.14	0.48
2:A:1732:GLU:O	2:A:1736:ILE:HG13	2.13	0.48
2:A:4170:ARG:NH1	4:A:5002:ATP:O3G	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:4587:ILE:HD13	2:A:4722:LEU:HB3	1.95	0.48
2:D:2651:ALA:O	2:D:2655:LYS:HB2	2.13	0.48
2:B:4732:GLY:HA2	2:B:4738:PHE:HB2	1.95	0.48
2:C:261:HIS:CD2	2:C:263:GLU:HG3	2.48	0.48
2:C:1685:LEU:HB3	2:C:1706:LEU:HD12	1.94	0.48
2:C:1850:VAL:HG21	2:C:2061:LEU:HD13	1.96	0.48
2:C:2202:TYR:O	2:C:2206:ILE:HG12	2.12	0.48
2:C:3250:TRP:CD1	2:C:3273:MET:HE1	2.49	0.48
2:C:4045:LYS:NZ	2:C:4071:GLU:O	2.40	0.48
2:C:4732:GLY:HA2	2:C:4738:PHE:HB2	1.95	0.48
2:A:2701:PHE:CE2	2:A:2703:PRO:HG3	2.48	0.48
2:A:4726:MET:HB3	2:D:4291:PHE:CE1	2.47	0.48
2:D:23:GLN:HG2	2:D:34:LYS:HD2	1.95	0.48
2:D:3250:TRP:CD1	2:D:3273:MET:HE1	2.49	0.48
2:D:4170:ARG:NH1	4:D:5002:ATP:O3G	2.46	0.48
2:D:4253:LEU:HA	2:D:4256:MET:HG3	1.95	0.48
2:D:4905:PHE:O	2:D:4909:THR:HG23	2.14	0.48
2:B:1240:ALA:HB2	2:B:1247:ILE:HD11	1.94	0.48
2:B:1685:LEU:O	2:B:1689:ILE:HG12	2.14	0.48
2:B:1685:LEU:HB3	2:B:1706:LEU:HD12	1.94	0.48
2:B:2488:LEU:HD21	2:B:2548:LEU:HD22	1.95	0.48
2:B:4046:ARG:O	2:B:4050:LYS:HG2	2.13	0.48
2:C:1427:TYR:HB2	2:C:1563:VAL:HG11	1.95	0.48
2:C:2701:PHE:CE2	2:C:2703:PRO:HG3	2.48	0.48
2:C:4495:PHE:CE1	2:C:4502:MET:HE1	2.48	0.48
2:C:4630:TRP:CZ2	2:C:4708:TRP:HA	2.48	0.48
2:A:322:ALA:HB1	2:A:327:THR:HG21	1.94	0.48
2:A:1685:LEU:HB3	2:A:1706:LEU:HD12	1.95	0.48
2:A:2884:LYS:O	2:A:2887:GLU:HG3	2.13	0.48
2:A:3231:MET:HE2	2:A:3234:VAL:HB	1.94	0.48
2:A:4023:LEU:HD13	2:A:4066:LEU:HD21	1.95	0.48
2:D:1308:ILE:HD13	2:D:1445:TRP:CZ3	2.42	0.48
2:D:2202:TYR:O	2:D:2206:ILE:HG12	2.12	0.48
2:D:2693:SER:HB2	2:D:2704:GLN:HB2	1.95	0.48
2:D:2698:GLU:O	2:D:2698:GLU:HG2	2.12	0.48
2:D:3241:MET:HE2	2:D:3241:MET:HB2	1.76	0.48
2:B:3250:TRP:CD1	2:B:3273:MET:HE1	2.49	0.48
2:C:2162:MET:SD	2:C:2167:MET:HE2	2.53	0.48
2:C:4019:MET:HE1	2:C:4065:PHE:CD2	2.46	0.48
2:C:4046:ARG:O	2:C:4050:LYS:HG2	2.14	0.48
2:A:1968:PRO:O	2:A:1972:GLN:HG3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3043:ARG:O	2:A:3047:LYS:HG2	2.13	0.48
2:A:3250:TRP:CD1	2:A:3273:MET:HE1	2.49	0.48
2:A:3650:GLU:HB2	2:A:3651:PRO:HD3	1.96	0.48
2:A:4199:GLU:HB3	2:A:4597:LEU:HD13	1.96	0.48
2:A:4905:PHE:O	2:A:4909:THR:HG23	2.14	0.48
2:D:1850:VAL:HG21	2:D:2061:LEU:HD13	1.96	0.48
2:D:4046:ARG:O	2:D:4050:LYS:HG2	2.14	0.48
2:B:1306:MET:SD	2:B:1585:ARG:HD3	2.54	0.48
2:B:1758:ARG:HG3	2:B:1759:PRO:HD2	1.95	0.48
2:B:2651:ALA:O	2:B:2655:LYS:HB2	2.13	0.48
2:B:2698:GLU:HG2	2:B:2698:GLU:O	2.12	0.48
2:B:2835:ARG:HG3	2:B:2836:ASP:N	2.28	0.48
2:B:4630:TRP:HH2	2:B:4707:MET:HE3	1.78	0.48
2:C:1838:ASP:O	2:C:1842:ILE:HG12	2.12	0.48
2:C:2651:ALA:O	2:C:2655:LYS:HB2	2.13	0.48
2:C:3266:THR:OG1	2:C:3268:LEU:HG	2.14	0.48
2:C:3832:ASP:HB2	2:C:3835:PHE:HB3	1.95	0.48
2:C:3997:LYS:N	2:C:4109:MET:HE1	2.29	0.48
2:D:428:ARG:NH2	2:D:446:ASP:OD2	2.45	0.48
2:D:1454:ASP:OD1	2:D:1455:THR:N	2.47	0.48
2:D:1685:LEU:HD22	2:D:1706:LEU:HB2	1.95	0.48
2:D:2831:VAL:O	2:D:2894:LYS:NZ	2.41	0.48
2:B:3312:PRO:O	2:B:3316:LYS:HG2	2.14	0.48
2:B:3832:ASP:HB2	2:B:3835:PHE:HB3	1.95	0.48
2:C:2488:LEU:HD21	2:C:2548:LEU:HD22	1.95	0.48
2:C:3121:LEU:HD23	2:C:3122:ILE:HG23	1.94	0.48
2:C:4271:VAL:O	2:C:4271:VAL:HG12	2.13	0.48
2:C:4587:ILE:HD13	2:C:4722:LEU:HB3	1.95	0.48
2:C:4752:THR:HA	2:C:4874:ARG:HH22	1.78	0.48
2:A:1438:PRO:HG2	2:A:1494:MET:SD	2.54	0.48
2:A:1443:VAL:HG13	2:A:1543:VAL:HG22	1.94	0.48
2:A:4495:PHE:CE1	2:A:4502:MET:HE1	2.48	0.48
2:D:593:HIS:O	2:D:597:ILE:HG13	2.14	0.48
2:D:2844:MET:HA	2:D:2844:MET:CE	2.42	0.48
2:D:3121:LEU:HD23	2:D:3122:ILE:HG23	1.95	0.48
2:D:3312:PRO:O	2:D:3316:LYS:HG2	2.14	0.48
2:D:3650:GLU:HB2	2:D:3651:PRO:HD3	1.96	0.48
2:D:4495:PHE:CE1	2:D:4502:MET:HE1	2.48	0.48
2:D:4752:THR:HA	2:D:4874:ARG:HH22	1.78	0.48
2:B:1732:GLU:O	2:B:1736:ILE:HG13	2.13	0.48
2:B:2693:SER:HB2	2:B:2704:GLN:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2723:LYS:HD3	2:B:2899:ASN:HD21	1.79	0.48
2:B:4045:LYS:NZ	2:B:4071:GLU:O	2.40	0.48
2:C:1306:MET:SD	2:C:1585:ARG:HD3	2.54	0.48
2:A:503:ASP:O	2:A:507:VAL:HG13	2.14	0.47
2:A:1435:GLY:HA3	2:D:2830:ASN:HB3	1.95	0.47
2:A:2723:LYS:HD3	2:A:2899:ASN:HD21	1.79	0.47
2:D:4199:GLU:HB3	2:D:4597:LEU:HD13	1.96	0.47
2:D:4941:TRP:NE1	2:D:4945:GLN:NE2	2.60	0.47
2:B:964:MET:HE3	2:B:964:MET:HB2	1.66	0.47
2:B:2068:ARG:NH1	2:B:2072:GLU:OE1	2.46	0.47
2:B:4166:LYS:NZ	4:B:5002:ATP:O1G	2.47	0.47
2:B:4587:ILE:HD13	2:B:4722:LEU:HB3	1.95	0.47
2:C:4155:SER:O	2:C:4159:GLN:HG2	2.13	0.47
2:C:4170:ARG:NH1	4:C:5002:ATP:O3G	2.46	0.47
2:A:1113:MET:HB2	2:A:1156:TRP:HZ2	1.79	0.47
2:A:2831:VAL:O	2:A:2894:LYS:NZ	2.41	0.47
2:A:3100:ALA:C	2:A:3103:PRO:HD2	2.39	0.47
2:A:3939:ARG:HH12	2:B:173:GLU:HG2	1.78	0.47
2:A:4726:MET:HG3	2:D:4291:PHE:CD1	2.49	0.47
2:D:1685:LEU:O	2:D:1689:ILE:HG12	2.14	0.47
2:D:2701:PHE:CE2	2:D:2703:PRO:HG3	2.48	0.47
2:D:3214:LEU:O	2:D:3218:ILE:HG12	2.15	0.47
2:B:503:ASP:O	2:B:507:VAL:HG13	2.14	0.47
2:B:2701:PHE:CE2	2:B:2703:PRO:HG3	2.48	0.47
2:B:2769:GLU:HA	2:B:2772:ARG:HB2	1.95	0.47
2:B:3650:GLU:HB2	2:B:3651:PRO:HD3	1.96	0.47
2:B:3939:ARG:NH1	2:C:173:GLU:HG2	2.28	0.47
2:B:4941:TRP:NE1	2:B:4945:GLN:NE2	2.60	0.47
2:C:3650:GLU:HB2	2:C:3651:PRO:HD3	1.96	0.47
2:A:981:MET:HE2	2:A:981:MET:HB3	1.77	0.47
2:A:2593:VAL:HA	2:A:2644:LEU:HD13	1.96	0.47
2:A:4752:THR:HA	2:A:4874:ARG:HH22	1.78	0.47
2:D:1436:GLN:HG2	2:D:1552:VAL:HG23	1.95	0.47
2:D:2723:LYS:HD3	2:D:2899:ASN:ND2	2.29	0.47
2:D:3266:THR:OG1	2:D:3268:LEU:HG	2.14	0.47
2:D:3997:LYS:N	2:D:4109:MET:HE1	2.29	0.47
2:B:593:HIS:O	2:B:597:ILE:HG13	2.14	0.47
2:B:1253:LYS:HB2	2:B:1253:LYS:HE2	1.68	0.47
2:B:2162:MET:SD	2:B:2167:MET:HE2	2.53	0.47
2:B:2290:TRP:CZ2	2:B:2388:ILE:HG12	2.50	0.47
2:B:2918:GLU:HA	2:B:2923:TYR:CD2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3062:ASP:OD1	2:B:3129:SER:OG	2.19	0.47
2:B:3100:ALA:C	2:B:3103:PRO:HD2	2.39	0.47
2:C:1438:PRO:HG2	2:C:1494:MET:SD	2.54	0.47
2:C:4023:LEU:HD13	2:C:4066:LEU:HD21	1.95	0.47
2:C:4905:PHE:O	2:C:4909:THR:HG23	2.14	0.47
2:A:1004:HIS:NE2	2:A:1033:VAL:O	2.36	0.47
2:A:1421:MET:HA	2:A:1421:MET:CE	2.43	0.47
2:A:2723:LYS:HD3	2:A:2899:ASN:ND2	2.29	0.47
2:A:3121:LEU:HD23	2:A:3122:ILE:HG23	1.94	0.47
1:F:88:HIS:NE2	2:B:1776:TYR:OH	2.38	0.47
2:D:1100:ARG:NH1	2:D:1234:GLU:O	2.46	0.47
2:D:3780:TYR:O	2:D:3784:LYS:HG2	2.14	0.47
2:D:4166:LYS:NZ	4:D:5002:ATP:O1G	2.47	0.47
2:B:705:PRO:HD3	2:B:857:LEU:HG	1.97	0.47
2:B:2114:GLU:OE1	2:B:2114:GLU:N	2.37	0.47
2:B:3997:LYS:N	2:B:4109:MET:HE1	2.29	0.47
2:C:1225:LYS:HB3	2:C:1226:TYR:HD1	1.79	0.47
2:C:2723:LYS:HD3	2:C:2899:ASN:ND2	2.29	0.47
2:C:3070:LYS:HA	2:C:3073:GLU:HG3	1.96	0.47
2:A:189:GLU:O	2:D:2326:ARG:NH1	2.48	0.47
2:A:1744:LYS:NZ	2:A:2002:ASP:OD1	2.39	0.47
2:A:1758:ARG:HG3	2:A:1759:PRO:HD2	1.95	0.47
2:A:3794:ALA:HB2	2:A:3868:VAL:HG11	1.96	0.47
2:A:4166:LYS:NZ	4:A:5002:ATP:O1G	2.47	0.47
2:D:1225:LYS:HB3	2:D:1226:TYR:HD1	1.79	0.47
2:D:2488:LEU:HD21	2:D:2548:LEU:HD22	1.95	0.47
2:D:2593:VAL:HA	2:D:2644:LEU:HD13	1.96	0.47
2:D:2918:GLU:HA	2:D:2923:TYR:CD2	2.49	0.47
2:D:4587:ILE:HD13	2:D:4722:LEU:HB3	1.95	0.47
2:D:4620:GLN:OE1	2:D:4632:ARG:NH2	2.43	0.47
2:B:23:GLN:HG2	2:B:34:LYS:HD2	1.95	0.47
2:B:1438:PRO:HG2	2:B:1494:MET:SD	2.54	0.47
2:B:3269:ASN:HB2	2:B:3272:HIS:HB2	1.96	0.47
2:B:4905:PHE:O	2:B:4909:THR:HG23	2.14	0.47
2:C:4275:THR:HG22	2:C:4278:ASP:H	1.80	0.47
2:A:487:ASN:O	2:A:491:GLU:HG2	2.15	0.47
2:A:1118:SER:HB2	2:A:1204:VAL:HG11	1.97	0.47
2:A:2622:CYS:HA	2:A:2677:PRO:HG3	1.97	0.47
2:A:2833:LEU:HD22	2:A:2837:LEU:HD23	1.97	0.47
2:A:4035:TYR:CE1	2:A:4050:LYS:HG3	2.48	0.47
2:D:2068:ARG:NH1	2:D:2072:GLU:OE1	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:2290:TRP:CZ2	2:D:2388:ILE:HG12	2.49	0.47
2:D:3832:ASP:HB2	2:D:3835:PHE:HB3	1.95	0.47
2:B:1850:VAL:HG21	2:B:2061:LEU:HD13	1.96	0.47
2:B:1991:GLU:OE1	2:B:1991:GLU:N	2.31	0.47
2:B:2831:VAL:O	2:B:2894:LYS:NZ	2.41	0.47
2:B:3235:MET:HE1	2:B:3283:ILE:HD13	1.97	0.47
2:C:503:ASP:O	2:C:507:VAL:HG13	2.14	0.47
2:C:1308:ILE:HD13	2:C:1445:TRP:CZ3	2.41	0.47
2:C:1991:GLU:OE1	2:C:1991:GLU:N	2.32	0.47
2:C:2769:GLU:HA	2:C:2772:ARG:HB2	1.95	0.47
2:C:3178:HIS:CE1	2:C:3265:CYS:HA	2.46	0.47
1:H:8:ILE:HG23	2:D:748:LEU:HB2	1.95	0.47
2:A:537:LEU:O	2:A:541:ILE:HG12	2.14	0.47
2:A:624:ALA:HB2	2:A:1667:LEU:HD12	1.97	0.47
2:A:629:GLN:OE1	2:A:1669:ASN:ND2	2.35	0.47
2:A:705:PRO:HD3	2:A:857:LEU:HG	1.97	0.47
2:A:1113:MET:HB2	2:A:1156:TRP:CZ2	2.50	0.47
2:A:1436:GLN:HG2	2:A:1552:VAL:HG23	1.95	0.47
2:A:2693:SER:HB2	2:A:2704:GLN:HB2	1.95	0.47
2:A:2779:LEU:HD21	2:A:2892:ILE:HD11	1.97	0.47
2:A:3035:ILE:O	2:A:3039:THR:HG23	2.15	0.47
2:A:3070:LYS:HA	2:A:3073:GLU:HG3	1.96	0.47
2:A:3214:LEU:O	2:A:3218:ILE:HG12	2.15	0.47
2:A:3235:MET:HE1	2:A:3283:ILE:HD13	1.97	0.47
2:A:3832:ASP:HB2	2:A:3835:PHE:HB3	1.95	0.47
2:A:4275:THR:HG22	2:A:4278:ASP:H	1.80	0.47
2:D:487:ASN:O	2:D:491:GLU:HG2	2.15	0.47
2:D:1113:MET:HB2	2:D:1156:TRP:HZ2	1.79	0.47
2:D:1438:PRO:HG2	2:D:1494:MET:SD	2.54	0.47
2:D:1502:ASN:HB3	2:C:2824:ARG:HD3	1.97	0.47
2:D:2114:GLU:OE1	2:D:2114:GLU:N	2.37	0.47
2:D:2854:LYS:O	2:D:2858:MET:HG2	2.15	0.47
2:D:3100:ALA:C	2:D:3103:PRO:HD2	2.40	0.47
2:D:3917:PHE:HD1	2:D:3981:MET:HE2	1.80	0.47
2:B:1118:SER:HB2	2:B:1204:VAL:HG11	1.97	0.47
2:B:1144:ARG:HB3	2:B:1152:TYR:CD2	2.50	0.47
2:B:2174:VAL:O	2:B:2178:VAL:HG23	2.15	0.47
2:B:3288:LEU:HD22	2:B:3329:LYS:HB3	1.97	0.47
2:B:4275:THR:HG22	2:B:4278:ASP:H	1.80	0.47
2:C:487:ASN:O	2:C:491:GLU:HG2	2.15	0.47
2:C:674:TYR:CE1	2:C:756:SER:HB2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1113:MET:HB2	2:C:1156:TRP:CZ2	2.50	0.47
2:C:1454:ASP:OD1	2:C:1455:THR:N	2.47	0.47
2:C:1498:GLN:O	2:C:1500:ARG:HD3	2.15	0.47
2:C:2290:TRP:CZ2	2:C:2388:ILE:HG12	2.50	0.47
2:C:2593:VAL:HA	2:C:2644:LEU:HD13	1.96	0.47
2:C:2723:LYS:HD3	2:C:2899:ASN:HD21	1.79	0.47
2:C:3100:ALA:C	2:C:3103:PRO:HD2	2.39	0.47
2:C:3312:PRO:O	2:C:3316:LYS:HG2	2.14	0.47
2:A:3780:TYR:O	2:A:3784:LYS:HG2	2.14	0.47
2:A:4196:THR:O	2:A:4200:MET:HG3	2.15	0.47
2:A:4647:LYS:HE3	2:A:4647:LYS:HB3	1.54	0.47
2:B:674:TYR:CE1	2:B:756:SER:HB2	2.50	0.47
2:B:967:PRO:HD2	2:B:970:TYR:HB2	1.97	0.47
2:B:1113:MET:HB2	2:B:1156:TRP:CZ2	2.50	0.47
2:B:2593:VAL:HA	2:B:2644:LEU:HD13	1.96	0.47
2:B:4752:THR:HA	2:B:4874:ARG:HH22	1.78	0.47
2:C:537:LEU:O	2:C:541:ILE:HG12	2.14	0.47
2:C:2968:LEU:HB2	2:C:2969:PRO:HD3	1.97	0.47
2:A:1498:GLN:O	2:A:1500:ARG:HD3	2.15	0.47
2:A:2607:LEU:HD21	2:A:2665:ALA:HA	1.97	0.47
2:A:4182:GLU:OE2	2:D:4903:HIS:HA	2.15	0.47
2:D:503:ASP:O	2:D:507:VAL:HG13	2.14	0.47
2:D:2607:LEU:HD21	2:D:2665:ALA:HA	1.97	0.47
2:D:2723:LYS:HD3	2:D:2899:ASN:HD21	1.79	0.47
2:D:2736:LYS:HZ2	2:D:2754:GLN:HG2	1.79	0.47
2:D:2833:LEU:HD22	2:D:2837:LEU:HD23	1.97	0.47
2:D:4245:LEU:HG	2:D:4249:ARG:HE	1.80	0.47
2:B:1113:MET:HB2	2:B:1156:TRP:HZ2	1.80	0.47
2:B:1829:LEU:HG	2:B:1912:TYR:CE2	2.50	0.47
2:B:2884:LYS:O	2:B:2887:GLU:HG3	2.13	0.47
2:B:3214:LEU:O	2:B:3218:ILE:HG12	2.15	0.47
2:C:503:ASP:OD1	2:C:561:ARG:NH2	2.47	0.47
2:C:3214:LEU:O	2:C:3218:ILE:HG12	2.15	0.47
2:C:3780:TYR:O	2:C:3784:LYS:HG2	2.14	0.47
2:C:3917:PHE:HD1	2:C:3981:MET:HE2	1.80	0.47
2:C:4166:LYS:NZ	4:C:5002:ATP:O1G	2.47	0.47
2:A:1144:ARG:HB3	2:A:1152:TYR:CD2	2.50	0.47
2:A:4245:LEU:HG	2:A:4249:ARG:HE	1.80	0.47
2:D:537:LEU:O	2:D:541:ILE:HG12	2.14	0.47
2:D:2779:LEU:HD21	2:D:2892:ILE:HD11	1.97	0.47
2:D:3070:LYS:HA	2:D:3073:GLU:HG3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:3074:ASN:HA	2:D:3077:GLN:HG3	1.97	0.47
2:D:3269:ASN:HB2	2:D:3272:HIS:HB2	1.96	0.47
2:B:428:ARG:NH2	2:B:446:ASP:OD2	2.45	0.47
2:B:3917:PHE:HD1	2:B:3981:MET:HE2	1.80	0.47
2:C:2918:GLU:HA	2:C:2923:TYR:CD2	2.49	0.47
2:A:503:ASP:OD1	2:A:561:ARG:NH2	2.47	0.46
2:A:593:HIS:O	2:A:597:ILE:HG13	2.14	0.46
2:A:674:TYR:CE1	2:A:756:SER:HB2	2.50	0.46
2:A:2968:LEU:HB2	2:A:2969:PRO:HD3	1.97	0.46
2:A:3288:LEU:HD22	2:A:3329:LYS:HB3	1.97	0.46
2:A:4640:PHE:CG	2:A:4641:PRO:HD3	2.50	0.46
2:D:674:TYR:CE1	2:D:756:SER:HB2	2.50	0.46
2:D:4640:PHE:CG	2:D:4641:PRO:HD3	2.50	0.46
2:B:487:ASN:O	2:B:491:GLU:HG2	2.15	0.46
2:B:624:ALA:HB2	2:B:1667:LEU:HD12	1.97	0.46
2:B:866:PRO:HA	2:B:1009:ARG:NH1	2.31	0.46
2:B:1498:GLN:O	2:B:1500:ARG:HD3	2.15	0.46
2:B:2622:CYS:HA	2:B:2677:PRO:HG3	1.97	0.46
2:B:2723:LYS:HD3	2:B:2899:ASN:ND2	2.29	0.46
2:B:4139:MET:HE3	2:B:4143:LYS:HA	1.98	0.46
2:B:4196:THR:O	2:B:4200:MET:HG3	2.15	0.46
2:C:705:PRO:HD3	2:C:857:LEU:HG	1.97	0.46
2:C:2854:LYS:O	2:C:2858:MET:HG2	2.15	0.46
2:C:2883:ALA:HA	2:C:2886:ARG:NE	2.29	0.46
2:C:3016:ARG:NH2	2:C:3067:ASP:OD1	2.48	0.46
2:C:3035:ILE:O	2:C:3039:THR:HG23	2.15	0.46
2:A:1454:ASP:OD1	2:A:1455:THR:N	2.47	0.46
2:A:1850:VAL:HG21	2:A:2061:LEU:HD13	1.96	0.46
2:A:2290:TRP:CZ2	2:A:2388:ILE:HG12	2.50	0.46
2:A:3755:VAL:HG12	2:A:3835:PHE:HE1	1.81	0.46
2:A:3997:LYS:N	2:A:4109:MET:HE1	2.29	0.46
2:D:2622:CYS:HA	2:D:2677:PRO:HG3	1.97	0.46
2:D:3755:VAL:HG12	2:D:3835:PHE:HE1	1.81	0.46
2:D:4276:VAL:O	2:D:4280:VAL:HG13	2.16	0.46
2:B:1225:LYS:HB3	2:B:1226:TYR:HD1	1.79	0.46
2:B:2854:LYS:O	2:B:2858:MET:HG2	2.15	0.46
2:B:2883:ALA:HA	2:B:2886:ARG:NE	2.29	0.46
2:B:3319:PHE:O	2:B:3323:MET:N	2.40	0.46
2:C:1118:SER:HB2	2:C:1204:VAL:HG11	1.97	0.46
2:C:2174:VAL:O	2:C:2178:VAL:HG23	2.15	0.46
2:C:3269:ASN:HB2	2:C:3272:HIS:HB2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:3288:LEU:HD22	2:C:3329:LYS:HB3	1.97	0.46
2:C:4245:LEU:HG	2:C:4249:ARG:HE	1.80	0.46
2:C:4640:PHE:CG	2:C:4641:PRO:HD3	2.50	0.46
2:A:2854:LYS:O	2:A:2858:MET:HG2	2.15	0.46
2:A:2883:ALA:HA	2:A:2886:ARG:NE	2.29	0.46
2:D:1113:MET:HB2	2:D:1156:TRP:CZ2	2.50	0.46
2:D:1498:GLN:O	2:D:1500:ARG:HD3	2.15	0.46
2:D:3035:ILE:O	2:D:3039:THR:HG23	2.15	0.46
2:D:4275:THR:HG22	2:D:4278:ASP:H	1.80	0.46
2:B:2833:LEU:HD22	2:B:2837:LEU:HD23	1.96	0.46
2:B:3212:GLU:H	2:B:3212:GLU:CD	2.24	0.46
2:B:3794:ALA:HB2	2:B:3868:VAL:HG11	1.96	0.46
2:C:593:HIS:O	2:C:597:ILE:HG13	2.14	0.46
2:C:1113:MET:HB2	2:C:1156:TRP:HZ2	1.80	0.46
2:A:866:PRO:HA	2:A:1009:ARG:NH1	2.31	0.46
2:A:4276:VAL:O	2:A:4280:VAL:HG13	2.16	0.46
2:D:1118:SER:HB2	2:D:1204:VAL:HG11	1.97	0.46
2:D:2319:VAL:O	2:D:2323:LEU:HG	2.16	0.46
2:D:2688:MET:HE3	2:D:2689:MET:H	1.80	0.46
2:D:2883:ALA:HA	2:D:2886:ARG:NE	2.29	0.46
2:D:4274:MET:HE3	2:D:4274:MET:HA	1.97	0.46
2:B:2844:MET:HA	2:B:2844:MET:CE	2.42	0.46
2:B:3035:ILE:O	2:B:3039:THR:HG23	2.15	0.46
2:B:3037:GLY:HA2	2:B:3040:LEU:HG	1.98	0.46
2:B:4640:PHE:CG	2:B:4641:PRO:HD3	2.50	0.46
2:C:1144:ARG:HB3	2:C:1152:TYR:CD2	2.50	0.46
2:C:1605:LYS:HD3	2:C:1605:LYS:HA	1.75	0.46
2:C:1829:LEU:HG	2:C:1912:TYR:CE2	2.50	0.46
2:C:3794:ALA:HB2	2:C:3868:VAL:HG11	1.96	0.46
2:C:4196:THR:O	2:C:4200:MET:HG3	2.15	0.46
2:A:237:LEU:HD23	2:A:244:CYS:HB2	1.98	0.46
2:A:475:LYS:HB3	2:A:475:LYS:HE3	1.76	0.46
2:A:1225:LYS:HB3	2:A:1226:TYR:HD1	1.79	0.46
2:A:1829:LEU:HG	2:A:1912:TYR:CE2	2.50	0.46
2:A:2918:GLU:HA	2:A:2923:TYR:CD2	2.49	0.46
2:A:3016:ARG:NH2	2:A:3067:ASP:OD1	2.48	0.46
2:A:3241:MET:HE2	2:A:3241:MET:HB2	1.76	0.46
2:A:3269:ASN:HB2	2:A:3272:HIS:HB2	1.96	0.46
2:A:4061:SER:O	2:A:4064:GLU:HG3	2.16	0.46
1:F:23:CYS:HA	1:F:107:LEU:HD23	1.98	0.46
2:D:967:PRO:HD2	2:D:970:TYR:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1502:ASN:CB	2:C:2824:ARG:HD3	2.46	0.46
2:D:2174:VAL:O	2:D:2178:VAL:HG23	2.15	0.46
2:D:4048:PHE:CE2	2:D:4052:MET:HE1	2.51	0.46
2:B:237:LEU:HD23	2:B:244:CYS:HB2	1.98	0.46
2:B:4248:LEU:HD13	2:C:4630:TRP:CH2	2.51	0.46
2:C:668:ALA:HB2	2:C:1012:ILE:HD11	1.98	0.46
2:C:967:PRO:HD2	2:C:970:TYR:HB2	1.97	0.46
2:A:245:LEU:HD11	2:A:260:VAL:HG12	1.98	0.46
2:A:3142:THR:O	2:A:3144:LYS:NZ	2.41	0.46
2:A:3917:PHE:HD1	2:A:3981:MET:HE2	1.80	0.46
2:D:245:LEU:HD11	2:D:260:VAL:HG12	1.98	0.46
2:D:3311:LYS:HB3	2:D:3314:LEU:HB3	1.98	0.46
2:D:3794:ALA:HB2	2:D:3868:VAL:HG11	1.96	0.46
2:D:4009:ASN:OD1	2:D:4009:ASN:N	2.48	0.46
2:D:4196:THR:O	2:D:4200:MET:HG3	2.15	0.46
2:B:1454:ASP:OD1	2:B:1455:THR:N	2.47	0.46
2:B:3780:TYR:O	2:B:3784:LYS:HG2	2.14	0.46
2:B:4245:LEU:HG	2:B:4249:ARG:HE	1.80	0.46
2:B:4274:MET:HA	2:B:4274:MET:HE3	1.97	0.46
2:C:3037:GLY:HA2	2:C:3040:LEU:HG	1.98	0.46
2:C:4139:MET:HE3	2:C:4143:LYS:HA	1.98	0.46
2:C:4274:MET:HA	2:C:4274:MET:HE3	1.97	0.46
2:A:967:PRO:HD2	2:A:970:TYR:HB2	1.97	0.46
2:A:2943:PHE:O	2:A:2947:SER:OG	2.22	0.46
2:A:3074:ASN:HA	2:A:3077:GLN:HG3	1.97	0.46
2:D:705:PRO:HD3	2:D:857:LEU:HG	1.97	0.46
2:D:1829:LEU:HG	2:D:1912:TYR:CE2	2.50	0.46
2:D:2696:ASP:O	2:D:2700:ASN:HA	2.16	0.46
2:B:537:LEU:O	2:B:541:ILE:HG12	2.14	0.46
2:B:2384:MET:HA	2:B:2384:MET:CE	2.46	0.46
2:B:2696:ASP:O	2:B:2700:ASN:HA	2.16	0.46
2:B:4170:ARG:NH1	4:B:5002:ATP:O3G	2.46	0.46
2:C:2384:MET:HA	2:C:2384:MET:CE	2.46	0.46
2:C:2696:ASP:O	2:C:2700:ASN:HA	2.16	0.46
2:C:4276:VAL:O	2:C:4280:VAL:HG13	2.16	0.46
2:A:28:ILE:HG22	2:A:29:HIS:CE1	2.51	0.46
2:A:2174:VAL:O	2:A:2178:VAL:HG23	2.15	0.46
2:A:2688:MET:HE3	2:A:2689:MET:H	1.81	0.46
2:A:4203:ALA:HA	2:A:4206:ILE:HG12	1.97	0.46
2:A:4639:SER:O	2:A:4639:SER:OG	2.33	0.46
2:D:1253:LYS:HB2	2:D:1253:LYS:HE2	1.68	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1605:LYS:HA	2:D:1605:LYS:HD3	1.75	0.46
2:D:2384:MET:HA	2:D:2384:MET:CE	2.46	0.46
2:D:2488:LEU:HD12	2:D:2492:PHE:HB2	1.98	0.46
2:D:3217:GLU:O	2:D:3221:LEU:HG	2.16	0.46
2:D:4166:LYS:O	2:D:4170:ARG:HG2	2.16	0.46
2:B:1308:ILE:HD13	2:B:1445:TRP:CZ3	2.42	0.46
2:B:2779:LEU:HD21	2:B:2892:ILE:HD11	1.97	0.46
2:B:3269:ASN:O	2:B:3273:MET:HG2	2.16	0.46
2:C:981:MET:HE2	2:C:981:MET:HB3	1.77	0.46
2:C:2622:CYS:HA	2:C:2677:PRO:HG3	1.97	0.46
2:C:2779:LEU:HD21	2:C:2892:ILE:HD11	1.97	0.46
2:C:2833:LEU:HD22	2:C:2837:LEU:HD23	1.97	0.46
1:H:91:VAL:HG21	2:D:1768:PHE:CE1	2.51	0.46
2:A:1286:THR:OG1	2:A:1550:PRO:O	2.33	0.46
2:A:2175:MET:O	2:A:2179:LEU:HG	2.16	0.46
2:A:2319:VAL:O	2:A:2323:LEU:HG	2.16	0.46
1:E:23:CYS:HA	1:E:107:LEU:HD23	1.98	0.46
2:D:3235:MET:HE1	2:D:3283:ILE:HD13	1.97	0.46
2:B:28:ILE:HG22	2:B:29:HIS:CE1	2.51	0.46
2:B:1286:THR:OG1	2:B:1550:PRO:O	2.33	0.46
2:B:1840:LYS:O	2:B:1844:GLN:HG2	2.16	0.46
2:B:1896:MET:O	2:B:1896:MET:HG2	2.16	0.46
2:B:2968:LEU:HB2	2:B:2969:PRO:HD3	1.97	0.46
2:B:3070:LYS:HA	2:B:3073:GLU:HG3	1.96	0.46
2:B:4061:SER:O	2:B:4064:GLU:HG3	2.16	0.46
2:B:4203:ALA:HA	2:B:4206:ILE:HG12	1.97	0.46
2:B:4276:VAL:O	2:B:4280:VAL:HG13	2.16	0.46
2:B:4918:TYR:HD2	2:B:4952:PHE:HE1	1.63	0.46
2:C:2688:MET:HE3	2:C:2689:MET:H	1.81	0.46
2:C:3212:GLU:CD	2:C:3212:GLU:H	2.24	0.46
2:C:3269:ASN:O	2:C:3273:MET:HG2	2.16	0.46
2:C:4048:PHE:CE2	2:C:4052:MET:HE1	2.51	0.46
2:A:428:ARG:NH2	2:A:446:ASP:OD2	2.45	0.46
2:A:3212:GLU:CD	2:A:3212:GLU:H	2.24	0.46
2:A:4002:MET:HE2	2:A:4002:MET:HB3	1.82	0.46
2:D:2736:LYS:HZ3	2:D:2754:GLN:HE21	1.64	0.46
2:D:3037:GLY:HA2	2:D:3040:LEU:HG	1.98	0.46
2:D:3288:LEU:HD22	2:D:3329:LYS:HB3	1.97	0.46
2:D:4813:TYR:OH	2:D:4817:MET:HE2	2.16	0.46
2:B:2688:MET:HE3	2:B:2689:MET:H	1.81	0.46
2:B:2939:TYR:O	2:B:2956:TYR:OH	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:4009:ASN:OD1	2:B:4009:ASN:N	2.49	0.46
2:B:4048:PHE:CE2	2:B:4052:MET:HE1	2.51	0.46
2:C:3755:VAL:HG12	2:C:3835:PHE:HE1	1.81	0.46
2:C:4002:MET:HE2	2:C:4002:MET:HB3	1.82	0.46
2:C:4203:ALA:HA	2:C:4206:ILE:HG12	1.97	0.46
2:C:4593:LEU:HG	2:C:4594:LYS:HE3	1.98	0.46
2:C:4813:TYR:OH	2:C:4817:MET:HE2	2.16	0.46
2:A:139:SER:O	2:A:141:ASP:N	2.49	0.45
2:A:890:HIS:CD2	2:A:921:PHE:HB3	2.51	0.45
2:A:2384:MET:HA	2:A:2384:MET:CE	2.46	0.45
2:A:3037:GLY:HA2	2:A:3040:LEU:HG	1.98	0.45
2:A:3917:PHE:CD1	2:A:3981:MET:HE2	2.52	0.45
2:D:866:PRO:HA	2:D:1009:ARG:NH1	2.31	0.45
2:D:1785:ASP:OD1	2:D:1786:ILE:N	2.49	0.45
2:D:1840:LYS:O	2:D:1844:GLN:HG2	2.16	0.45
2:D:2175:MET:O	2:D:2179:LEU:HG	2.16	0.45
2:B:126:SER:HB2	2:B:128:MET:HE3	1.98	0.45
2:B:1918:VAL:O	2:B:1922:ILE:HG12	2.16	0.45
2:B:4058:TYR:HD1	2:B:4062:GLU:HB3	1.81	0.45
2:B:4079:ASP:O	2:B:4082:GLU:HG3	2.16	0.45
2:C:28:ILE:HG22	2:C:29:HIS:CE1	2.51	0.45
2:C:237:LEU:HD23	2:C:244:CYS:HB2	1.98	0.45
2:C:1785:ASP:OD1	2:C:1786:ILE:N	2.49	0.45
2:C:1840:LYS:O	2:C:1844:GLN:HG2	2.16	0.45
2:C:2319:VAL:O	2:C:2323:LEU:HG	2.16	0.45
2:C:2852:TRP:HA	2:C:2855:LYS:HZ3	1.81	0.45
2:A:126:SER:HB2	2:A:128:MET:HE3	1.98	0.45
2:A:4048:PHE:CE2	2:A:4052:MET:HE1	2.51	0.45
2:D:503:ASP:OD1	2:D:561:ARG:NH2	2.47	0.45
2:D:624:ALA:HB2	2:D:1667:LEU:HD12	1.97	0.45
2:D:766:ILE:HB	2:D:779:PHE:HB2	1.98	0.45
2:D:3016:ARG:NH2	2:D:3067:ASP:OD1	2.48	0.45
2:D:3269:ASN:O	2:D:3273:MET:HG2	2.16	0.45
2:D:3981:MET:HE3	2:D:3981:MET:HB3	1.88	0.45
2:D:4058:TYR:HD1	2:D:4062:GLU:HB3	1.81	0.45
2:D:4061:SER:O	2:D:4064:GLU:HG3	2.16	0.45
2:D:4593:LEU:HG	2:D:4594:LYS:HE3	1.99	0.45
2:B:218:SER:HB3	2:B:286:GLY:HA3	1.97	0.45
2:B:1205:CYS:SG	2:B:1215:MET:HE2	2.56	0.45
2:B:2607:LEU:HD21	2:B:2665:ALA:HA	1.97	0.45
2:B:2939:TYR:HB3	2:B:2956:TYR:CE2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3755:VAL:HG12	2:B:3835:PHE:HE1	1.81	0.45
2:B:4813:TYR:OH	2:B:4817:MET:HE2	2.16	0.45
2:C:181:LEU:N	2:C:212:TRP:O	2.48	0.45
2:C:290:ARG:HH12	2:C:346:VAL:HG22	1.81	0.45
2:C:866:PRO:HA	2:C:1009:ARG:NH1	2.31	0.45
2:C:2278:GLN:HA	2:C:2281:VAL:HG12	1.99	0.45
2:C:3235:MET:HE1	2:C:3283:ILE:HD13	1.97	0.45
2:C:3306:ILE:O	2:C:3310:VAL:HG23	2.17	0.45
2:C:4009:ASN:OD1	2:C:4009:ASN:N	2.49	0.45
2:C:4597:LEU:HG	2:C:4601:LYS:HZ2	1.80	0.45
2:A:2086:VAL:HG22	2:A:3687:LEU:HD13	1.99	0.45
2:A:2136:LYS:HE2	2:A:2189:PHE:CE1	2.51	0.45
2:A:2939:TYR:HB3	2:A:2956:TYR:CE2	2.51	0.45
2:A:4045:LYS:NZ	2:A:4071:GLU:O	2.40	0.45
2:A:4166:LYS:O	2:A:4170:ARG:HG2	2.15	0.45
2:A:4274:MET:HA	2:A:4274:MET:HE3	1.97	0.45
2:A:4813:TYR:OH	2:A:4817:MET:HE2	2.16	0.45
2:D:237:LEU:HD23	2:D:244:CYS:HB2	1.98	0.45
2:D:1144:ARG:HB3	2:D:1152:TYR:CD2	2.50	0.45
2:D:1918:VAL:O	2:D:1922:ILE:HG12	2.16	0.45
2:D:4501:ASN:O	2:D:4504:MET:HE3	2.17	0.45
2:D:4918:TYR:HD2	2:D:4952:PHE:HE1	1.63	0.45
2:B:2112:SER:O	2:B:2116:THR:OG1	2.32	0.45
2:B:3917:PHE:CD1	2:B:3981:MET:HE2	2.52	0.45
2:C:126:SER:HB2	2:C:128:MET:HE3	1.98	0.45
2:C:218:SER:HB3	2:C:286:GLY:HA3	1.98	0.45
2:C:849:ASP:OD1	2:C:1214:ARG:NE	2.46	0.45
2:C:2068:ARG:NH1	2:C:2072:GLU:OE1	2.46	0.45
2:C:2175:MET:O	2:C:2179:LEU:HG	2.16	0.45
2:C:2607:LEU:HD21	2:C:2665:ALA:HA	1.97	0.45
2:C:3062:ASP:OD1	2:C:3129:SER:OG	2.19	0.45
2:C:3074:ASN:HA	2:C:3077:GLN:HG3	1.97	0.45
2:C:3171:LEU:HD12	2:C:3245:TYR:CG	2.52	0.45
2:C:3311:LYS:HB3	2:C:3314:LEU:HB3	1.98	0.45
2:C:4079:ASP:O	2:C:4082:GLU:HG3	2.16	0.45
2:C:4166:LYS:O	2:C:4170:ARG:HG2	2.15	0.45
2:C:4501:ASN:O	2:C:4504:MET:HE3	2.17	0.45
2:A:290:ARG:HH12	2:A:346:VAL:HG22	1.81	0.45
2:A:1840:LYS:O	2:A:1844:GLN:HG2	2.16	0.45
2:A:2488:LEU:HD12	2:A:2492:PHE:HB2	1.98	0.45
2:A:2696:ASP:O	2:A:2700:ASN:HA	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3097:THR:HA	2:A:3101:LEU:HB3	1.99	0.45
2:A:4501:ASN:O	2:A:4504:MET:HE3	2.17	0.45
2:D:1246:ASP:OD1	2:D:1693:TYR:OH	2.30	0.45
2:D:2229:LEU:HD23	2:D:2297:ARG:NH1	2.31	0.45
2:D:2859:GLU:C	2:D:2863:LYS:HZ3	2.20	0.45
2:D:4019:MET:HE1	2:D:4065:PHE:CD2	2.46	0.45
2:B:2319:VAL:O	2:B:2323:LEU:HG	2.16	0.45
2:C:624:ALA:HB2	2:C:1667:LEU:HD12	1.97	0.45
2:C:1016:TRP:HB3	2:C:1032:LEU:HD11	1.99	0.45
2:C:2844:MET:HA	2:C:2844:MET:CE	2.42	0.45
2:C:4061:SER:O	2:C:4064:GLU:HG3	2.16	0.45
2:A:1522:ALA:O	2:A:1525:LYS:HG2	2.17	0.45
2:A:3888:PHE:HD2	2:A:3906:PHE:CZ	2.35	0.45
2:A:4238:ILE:HD12	2:A:4238:ILE:H	1.82	0.45
1:G:23:CYS:HA	1:G:107:LEU:HD23	1.98	0.45
2:D:162:ILE:CG2	2:D:181:LEU:HD11	2.47	0.45
2:D:218:SER:HB3	2:D:286:GLY:HA3	1.98	0.45
2:D:890:HIS:CD2	2:D:921:PHE:HB3	2.51	0.45
2:D:2968:LEU:HB2	2:D:2969:PRO:HD3	1.97	0.45
2:D:3124:GLU:C	2:D:3126:VAL:H	2.25	0.45
2:D:3306:ILE:O	2:D:3310:VAL:HG23	2.17	0.45
2:D:3888:PHE:HD2	2:D:3906:PHE:CZ	2.35	0.45
2:D:3917:PHE:CD1	2:D:3981:MET:HE2	2.52	0.45
2:D:3951:PHE:HZ	2:D:3974:LEU:HG	1.82	0.45
2:D:4647:LYS:HB3	2:D:4647:LYS:HE3	1.54	0.45
2:B:290:ARG:HH12	2:B:346:VAL:HG22	1.81	0.45
2:B:661:LEU:O	2:B:788:PHE:N	2.37	0.45
2:B:890:HIS:CD2	2:B:921:PHE:HB3	2.51	0.45
2:C:245:LEU:HD11	2:C:260:VAL:HG12	1.98	0.45
2:C:409:GLN:HB3	2:C:412:GLU:HG3	1.98	0.45
2:C:785:ASP:OD2	2:C:786:GLY:N	2.50	0.45
2:C:1441:VAL:HG13	2:C:1545:ALA:HB2	1.98	0.45
2:A:227:TYR:CG	2:A:352:SER:HB2	2.52	0.45
2:A:670:TYR:O	2:A:673:TRP:NE1	2.50	0.45
2:A:1896:MET:HG2	2:A:1896:MET:O	2.16	0.45
2:A:4079:ASP:O	2:A:4082:GLU:HG3	2.16	0.45
2:D:668:ALA:HB2	2:D:1012:ILE:HD11	1.98	0.45
2:D:1286:THR:OG1	2:D:1550:PRO:O	2.33	0.45
2:D:2852:TRP:HA	2:D:2855:LYS:HZ3	1.81	0.45
2:D:3097:THR:HA	2:D:3101:LEU:HB3	1.99	0.45
2:D:4139:MET:HE3	2:D:4143:LYS:HA	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:162:ILE:CG2	2:B:181:LEU:HD11	2.47	0.45
2:B:1441:VAL:HG13	2:B:1545:ALA:HB2	1.98	0.45
2:B:3681:LYS:HG2	2:B:3682:LEU:N	2.32	0.45
2:C:1522:ALA:O	2:C:1525:LYS:HG2	2.17	0.45
2:C:2787:TRP:CZ2	2:C:2843:MET:HE3	2.52	0.45
2:C:4918:TYR:HD2	2:C:4952:PHE:HE1	1.64	0.45
2:A:766:ILE:HB	2:A:779:PHE:HB2	1.98	0.45
2:A:2844:MET:HA	2:A:2844:MET:CE	2.42	0.45
2:A:3681:LYS:HG2	2:A:3682:LEU:N	2.32	0.45
2:A:4280:VAL:HG12	2:B:4491:LEU:HD11	1.98	0.45
2:D:409:GLN:HB3	2:D:412:GLU:HG3	1.98	0.45
2:D:1205:CYS:SG	2:D:1215:MET:HE2	2.56	0.45
2:D:1744:LYS:NZ	2:D:2002:ASP:OD1	2.39	0.45
2:D:2787:TRP:CZ2	2:D:2843:MET:HE3	2.52	0.45
2:B:179:ASP:OD1	2:B:180:ASP:N	2.50	0.45
2:B:245:LEU:HD11	2:B:260:VAL:HG12	1.98	0.45
2:B:668:ALA:HB2	2:B:1012:ILE:HD11	1.98	0.45
2:B:2079:GLU:H	2:B:2079:GLU:CD	2.25	0.45
2:B:2086:VAL:HG22	2:B:3687:LEU:HD13	1.99	0.45
2:B:2136:LYS:HE2	2:B:2189:PHE:CE1	2.51	0.45
2:B:2175:MET:O	2:B:2179:LEU:HG	2.16	0.45
2:B:2278:GLN:HA	2:B:2281:VAL:HG12	1.99	0.45
2:B:3688:TYR:CD2	2:B:3754:MET:HE3	2.52	0.45
2:B:4593:LEU:HG	2:B:4594:LYS:HE3	1.98	0.45
2:C:964:MET:HE3	2:C:964:MET:HB2	1.66	0.45
2:C:1918:VAL:O	2:C:1922:ILE:HG12	2.16	0.45
2:C:2136:LYS:HE2	2:C:2189:PHE:CE1	2.51	0.45
2:C:3641:ILE:HD11	2:C:3695:MET:HG2	1.99	0.45
2:C:4058:TYR:HD1	2:C:4062:GLU:HB3	1.81	0.45
2:A:218:SER:HB3	2:A:286:GLY:HA3	1.98	0.45
2:A:785:ASP:OD2	2:A:786:GLY:N	2.50	0.45
2:A:3124:GLU:C	2:A:3126:VAL:H	2.25	0.45
2:A:3217:GLU:O	2:A:3221:LEU:HG	2.16	0.45
2:A:3951:PHE:HZ	2:A:3974:LEU:HG	1.82	0.45
2:A:4580:THR:OG1	2:A:4733:HIS:NE2	2.27	0.45
2:A:4593:LEU:HG	2:A:4594:LYS:HE3	1.99	0.45
2:D:28:ILE:HG22	2:D:29:HIS:CE1	2.51	0.45
2:D:733:TRP:CE2	2:D:738:ALA:HB2	2.52	0.45
2:D:2136:LYS:HE2	2:D:2189:PHE:CE1	2.51	0.45
2:D:2274:LEU:HG	2:D:2329:GLU:HG3	1.99	0.45
2:D:3681:LYS:HG2	2:D:3682:LEU:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:227:TYR:CG	2:B:352:SER:HB2	2.52	0.45
2:B:733:TRP:CE2	2:B:738:ALA:HB2	2.52	0.45
2:B:1522:ALA:O	2:B:1525:LYS:HG2	2.17	0.45
2:B:1928:PHE:HE2	2:B:1996:LEU:HD13	1.82	0.45
2:B:2229:LEU:HD23	2:B:2297:ARG:NH1	2.31	0.45
2:B:4166:LYS:O	2:B:4170:ARG:HG2	2.15	0.45
2:B:4238:ILE:H	2:B:4238:ILE:HD12	1.82	0.45
2:B:4863:GLN:NE2	2:C:4860:ALA:HB2	2.20	0.45
2:C:2749:ASP:OD1	2:C:2750:SER:N	2.50	0.45
2:C:2754:GLN:OE1	2:C:2756:LEU:HG	2.17	0.45
2:C:3097:THR:HA	2:C:3101:LEU:HB3	1.99	0.45
2:C:3906:PHE:HB3	2:C:3967:LEU:HD11	1.98	0.45
2:C:3951:PHE:HZ	2:C:3974:LEU:HG	1.82	0.45
1:H:23:CYS:HA	1:H:107:LEU:HD23	1.98	0.45
2:A:1205:CYS:SG	2:A:1215:MET:HE2	2.56	0.45
2:A:2068:ARG:HG2	2:A:2072:GLU:OE1	2.17	0.45
2:A:2585:MET:HG2	2:A:2585:MET:O	2.17	0.45
2:A:3311:LYS:HB3	2:A:3314:LEU:HB3	1.98	0.45
2:D:227:TYR:CG	2:D:352:SER:HB2	2.52	0.45
2:D:2068:ARG:HG2	2:D:2072:GLU:OE1	2.17	0.45
2:D:3212:GLU:CD	2:D:3212:GLU:H	2.24	0.45
2:D:3688:TYR:CD2	2:D:3754:MET:HE3	2.52	0.45
2:D:3906:PHE:HB3	2:D:3967:LEU:HD11	1.98	0.45
2:B:673:TRP:HH2	2:B:1028:ARG:HH22	1.65	0.45
2:B:911:ASN:OD1	2:B:912:LYS:N	2.50	0.45
2:B:2754:GLN:OE1	2:B:2756:LEU:HG	2.17	0.45
2:B:3074:ASN:HA	2:B:3077:GLN:HG3	1.97	0.45
2:B:4501:ASN:O	2:B:4504:MET:HE3	2.17	0.45
2:B:4864:GLY:HA2	2:B:4867:ILE:HG12	1.99	0.45
2:C:162:ILE:CG2	2:C:181:LEU:HD11	2.47	0.45
2:C:629:GLN:OE1	2:C:1669:ASN:ND2	2.35	0.45
2:C:1205:CYS:SG	2:C:1215:MET:HE2	2.56	0.45
2:C:2447:LYS:HD3	2:C:2447:LYS:HA	1.83	0.45
2:C:2488:LEU:HD12	2:C:2492:PHE:HB2	1.98	0.45
2:C:2786:GLY:C	2:C:2906:GLY:HA2	2.42	0.45
2:C:2859:GLU:C	2:C:2863:LYS:HZ3	2.23	0.45
2:C:3681:LYS:HG2	2:C:3682:LEU:N	2.32	0.45
2:A:409:GLN:HB3	2:A:412:GLU:HG3	1.98	0.45
2:A:1441:VAL:HG13	2:A:1545:ALA:HB2	1.98	0.45
2:A:2079:GLU:H	2:A:2079:GLU:CD	2.25	0.45
2:A:2786:GLY:C	2:A:2906:GLY:HA2	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:3171:LEU:HD12	2:A:3245:TYR:CG	2.52	0.45
2:A:3306:ILE:O	2:A:3310:VAL:HG23	2.17	0.45
2:A:4918:TYR:HD2	2:A:4952:PHE:HE1	1.64	0.45
2:D:179:ASP:OD1	2:D:180:ASP:N	2.50	0.45
2:D:3131:TYR:O	2:D:3135:THR:HG23	2.17	0.45
2:D:3641:ILE:HD11	2:D:3695:MET:HG2	1.99	0.45
2:D:4639:SER:O	2:D:4639:SER:OG	2.33	0.45
2:D:4864:GLY:HA2	2:D:4867:ILE:HG12	1.99	0.45
2:B:503:ASP:OD1	2:B:561:ARG:NH2	2.47	0.45
2:B:737:ILE:HD12	2:B:1482:ARG:HD3	1.99	0.45
2:B:1475:LYS:HE3	2:B:1475:LYS:HB3	1.79	0.45
2:B:1964:GLU:HA	2:B:1975:MET:HE1	1.99	0.45
2:B:3888:PHE:HD2	2:B:3906:PHE:CZ	2.35	0.45
2:C:227:TYR:CG	2:C:352:SER:HB2	2.52	0.45
2:C:737:ILE:HD12	2:C:1482:ARG:HD3	1.99	0.45
2:C:890:HIS:CD2	2:C:921:PHE:HB3	2.51	0.45
2:C:3217:GLU:O	2:C:3221:LEU:HG	2.16	0.45
2:A:38:ALA:HB2	2:A:65:CYS:SG	2.58	0.44
2:A:674:TYR:HE1	2:A:756:SER:HB2	1.82	0.44
2:A:1077:VAL:O	2:A:1077:VAL:HG13	2.17	0.44
2:A:2787:TRP:CZ2	2:A:2843:MET:HE3	2.52	0.44
2:A:3688:TYR:CD2	2:A:3754:MET:HE3	2.52	0.44
1:G:32:GLN:HB3	2:C:1312:GLU:OE1	2.17	0.44
2:D:2278:GLN:HA	2:D:2281:VAL:HG12	1.99	0.44
2:B:38:ALA:HB2	2:B:65:CYS:SG	2.57	0.44
2:B:2068:ARG:HG2	2:B:2072:GLU:OE1	2.17	0.44
2:B:3981:MET:HE3	2:B:3981:MET:HB3	1.88	0.44
2:B:4135:ARG:HH11	2:B:4911:GLN:HB2	1.82	0.44
2:C:395:HIS:CE1	2:C:396:GLU:HG3	2.53	0.44
2:C:1777:GLN:O	2:C:1778:TYR:HB2	2.17	0.44
2:C:2939:TYR:HB3	2:C:2956:TYR:CE2	2.51	0.44
2:C:3124:GLU:C	2:C:3126:VAL:H	2.25	0.44
2:C:3888:PHE:HD2	2:C:3906:PHE:CZ	2.35	0.44
2:C:4162:LYS:NZ	2:C:4203:ALA:HB1	2.32	0.44
2:C:4864:GLY:HA2	2:C:4867:ILE:HG12	1.99	0.44
2:A:737:ILE:HD12	2:A:1482:ARG:HD3	1.99	0.44
2:A:1918:VAL:O	2:A:1922:ILE:HG12	2.16	0.44
2:A:1928:PHE:HE2	2:A:1996:LEU:HD13	1.82	0.44
2:A:2274:LEU:HG	2:A:2329:GLU:HG3	1.99	0.44
2:D:81:MET:HE3	2:D:81:MET:HB3	1.88	0.44
2:D:1220:ASP:O	2:D:1223:THR:OG1	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1946:GLU:OE1	2:D:1947:VAL:HG23	2.18	0.44
2:D:1964:GLU:HA	2:D:1975:MET:HE1	1.99	0.44
2:D:4162:LYS:NZ	2:D:4203:ALA:HB1	2.33	0.44
2:D:4630:TRP:HE1	2:D:4712:VAL:HG23	1.82	0.44
2:B:849:ASP:OD1	2:B:1214:ARG:NE	2.46	0.44
2:B:3171:LEU:HD12	2:B:3245:TYR:CG	2.52	0.44
2:B:4002:MET:HE2	2:B:4002:MET:HB3	1.82	0.44
2:B:4079:ASP:HB3	2:B:4082:GLU:HG3	1.99	0.44
2:C:38:ALA:HB2	2:C:65:CYS:SG	2.58	0.44
2:C:1744:LYS:NZ	2:C:2002:ASP:OD1	2.39	0.44
2:C:3131:TYR:O	2:C:3135:THR:HG23	2.17	0.44
2:C:3187:LYS:O	2:C:3188:SER:OG	2.23	0.44
2:A:655:MET:HE2	2:A:834:VAL:HG12	1.99	0.44
2:A:2749:ASP:OD1	2:A:2750:SER:N	2.50	0.44
2:A:3005:THR:HG21	2:A:3045:VAL:HG21	1.99	0.44
2:A:3269:ASN:O	2:A:3273:MET:HG2	2.16	0.44
2:A:3778:LEU:HD13	2:A:3854:PHE:CD1	2.49	0.44
2:A:3906:PHE:HB3	2:A:3967:LEU:HD11	1.99	0.44
2:D:238:HIS:HA	2:D:403:ILE:HG12	2.00	0.44
2:D:674:TYR:HE1	2:D:756:SER:HB2	1.83	0.44
2:D:785:ASP:OD2	2:D:786:GLY:N	2.50	0.44
2:D:2754:GLN:OE1	2:D:2756:LEU:HG	2.17	0.44
2:D:3171:LEU:HD12	2:D:3245:TYR:CG	2.52	0.44
2:D:4602:ARG:HH12	2:D:4627:LYS:HD2	1.83	0.44
2:B:409:GLN:HB3	2:B:412:GLU:HG3	1.98	0.44
2:B:629:GLN:OE1	2:B:1669:ASN:ND2	2.35	0.44
2:B:2488:LEU:HD12	2:B:2492:PHE:HB2	1.98	0.44
2:B:3306:ILE:O	2:B:3310:VAL:HG23	2.17	0.44
2:B:4630:TRP:HE1	2:B:4712:VAL:HG23	1.82	0.44
2:C:139:SER:O	2:C:141:ASP:N	2.49	0.44
2:C:670:TYR:O	2:C:673:TRP:NE1	2.50	0.44
2:C:1964:GLU:HA	2:C:1975:MET:HE1	2.00	0.44
2:C:2068:ARG:HG2	2:C:2072:GLU:OE1	2.17	0.44
2:C:3917:PHE:CD1	2:C:3981:MET:HE2	2.52	0.44
2:C:4630:TRP:HE1	2:C:4712:VAL:HG23	1.83	0.44
2:A:1016:TRP:HB3	2:A:1032:LEU:HD11	1.99	0.44
2:A:1785:ASP:OD1	2:A:1786:ILE:N	2.49	0.44
2:A:3018:ARG:HA	2:A:3021:LEU:HD13	2.00	0.44
2:A:4162:LYS:NZ	2:A:4203:ALA:HB1	2.32	0.44
2:A:4602:ARG:HH12	2:A:4627:LYS:HD2	1.83	0.44
2:D:514:PHE:HD2	2:D:526:TRP:HB2	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:981:MET:HE2	2:D:981:MET:HB3	1.77	0.44
2:D:2749:ASP:OD1	2:D:2750:SER:N	2.50	0.44
2:D:2939:TYR:HB3	2:D:2956:TYR:CE2	2.51	0.44
2:D:3316:LYS:C	2:D:3318:HIS:H	2.25	0.44
2:D:4157:ARG:O	2:D:4161:GLU:OE1	2.36	0.44
2:D:4203:ALA:HA	2:D:4206:ILE:HG12	1.97	0.44
2:B:69:LEU:HD13	2:B:113:LEU:HD21	2.00	0.44
2:B:670:TYR:O	2:B:673:TRP:NE1	2.50	0.44
2:B:1016:TRP:HB3	2:B:1032:LEU:HD11	1.99	0.44
2:B:1785:ASP:OD1	2:B:1786:ILE:N	2.49	0.44
2:B:2863:LYS:HE2	2:B:2863:LYS:HB2	1.24	0.44
2:B:3217:GLU:O	2:B:3221:LEU:HG	2.16	0.44
2:B:3951:PHE:HZ	2:B:3974:LEU:HG	1.82	0.44
2:C:637:LEU:HD22	2:C:1679:HIS:CD2	2.53	0.44
2:C:733:TRP:CE2	2:C:738:ALA:HB2	2.52	0.44
2:C:1896:MET:HG2	2:C:1896:MET:O	2.16	0.44
2:C:1946:GLU:OE1	2:C:1947:VAL:HG23	2.18	0.44
2:C:3688:TYR:CD2	2:C:3754:MET:HE3	2.52	0.44
2:C:4135:ARG:HH11	2:C:4911:GLN:HB2	1.82	0.44
2:C:4563:GLU:HG2	2:C:4568:MET:HB2	1.99	0.44
2:A:179:ASP:OD1	2:A:180:ASP:N	2.50	0.44
2:A:2706:VAL:HB	2:A:2847:ASN:HD21	1.83	0.44
2:A:4864:GLY:HA2	2:A:4867:ILE:HG12	1.99	0.44
2:D:38:ALA:HB2	2:D:65:CYS:SG	2.58	0.44
2:D:139:SER:O	2:D:141:ASP:N	2.49	0.44
2:D:230:GLY:HA3	2:D:285:SER:O	2.18	0.44
2:D:290:ARG:HH12	2:D:346:VAL:HG22	1.81	0.44
2:D:655:MET:HE2	2:D:834:VAL:HG12	1.99	0.44
2:D:1441:VAL:HG13	2:D:1545:ALA:HB2	1.98	0.44
2:D:3042:ALA:O	2:D:3046:MET:HG2	2.18	0.44
2:D:3062:ASP:OD1	2:D:3129:SER:OG	2.19	0.44
2:D:4079:ASP:HB3	2:D:4082:GLU:HG3	1.99	0.44
2:D:4160:TRP:HA	2:D:4165:VAL:HG21	2.00	0.44
2:D:4238:ILE:H	2:D:4238:ILE:HD12	1.82	0.44
2:B:705:PRO:HB3	2:B:857:LEU:HD11	1.99	0.44
2:B:766:ILE:HB	2:B:779:PHE:HB2	1.98	0.44
2:B:981:MET:HE1	2:B:1060:TYR:CE1	2.53	0.44
2:B:1421:MET:HA	2:B:1421:MET:CE	2.43	0.44
2:B:2274:LEU:HG	2:B:2329:GLU:HG3	1.99	0.44
2:B:2787:TRP:CZ2	2:B:2843:MET:HE3	2.52	0.44
2:B:3018:ARG:HA	2:B:3021:LEU:HD13	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3316:LYS:C	2:B:3318:HIS:H	2.25	0.44
2:B:3906:PHE:HB3	2:B:3967:LEU:HD11	1.98	0.44
2:B:4157:ARG:O	2:B:4161:GLU:OE1	2.36	0.44
2:B:4630:TRP:CH2	2:B:4707:MET:HE3	2.52	0.44
2:C:766:ILE:HB	2:C:779:PHE:HB2	1.98	0.44
2:C:2943:PHE:O	2:C:2947:SER:OG	2.22	0.44
2:C:3018:ARG:HA	2:C:3021:LEU:HD13	2.00	0.44
2:A:69:LEU:HD13	2:A:113:LEU:HD21	2.00	0.44
2:A:162:ILE:CG2	2:A:181:LEU:HD11	2.47	0.44
2:A:514:PHE:HD2	2:A:526:TRP:HB2	1.83	0.44
2:A:668:ALA:HB2	2:A:1012:ILE:HD11	1.98	0.44
2:A:733:TRP:CE2	2:A:738:ALA:HB2	2.52	0.44
2:A:1102:TYR:HE1	2:A:1165:MET:HE2	1.83	0.44
2:A:1964:GLU:HA	2:A:1975:MET:HE1	1.99	0.44
2:A:2229:LEU:HD23	2:A:2297:ARG:NH1	2.31	0.44
2:A:2403:ALA:HB2	2:A:2475:VAL:HG22	2.00	0.44
2:A:3042:ALA:O	2:A:3046:MET:HG2	2.18	0.44
2:A:3235:MET:HE2	2:A:3235:MET:HA	2.00	0.44
2:A:4058:TYR:HD1	2:A:4062:GLU:HB3	1.81	0.44
2:D:126:SER:HB2	2:D:128:MET:HE3	1.98	0.44
2:D:520:ARG:O	2:D:524:GLU:HG2	2.18	0.44
2:D:1522:ALA:O	2:D:1525:LYS:HG2	2.17	0.44
2:D:1665:CYS:HB3	2:D:1676:LEU:HD12	2.00	0.44
2:D:2079:GLU:H	2:D:2079:GLU:CD	2.25	0.44
2:D:3246:MET:HB3	2:D:3306:ILE:CD1	2.48	0.44
2:D:4135:ARG:HH11	2:D:4911:GLN:HB2	1.82	0.44
2:D:4630:TRP:CH2	2:D:4707:MET:HE3	2.52	0.44
2:B:238:HIS:HA	2:B:403:ILE:HG12	2.00	0.44
2:B:520:ARG:O	2:B:524:GLU:HG2	2.18	0.44
2:B:545:ARG:HH11	2:B:582:SER:HA	1.83	0.44
2:B:1077:VAL:HG13	2:B:1077:VAL:O	2.18	0.44
2:B:2706:VAL:HB	2:B:2847:ASN:HD21	1.82	0.44
2:B:3311:LYS:HB3	2:B:3314:LEU:HB3	1.98	0.44
2:B:4048:PHE:O	2:B:4051:ALA:HB3	2.18	0.44
2:C:69:LEU:HD13	2:C:113:LEU:HD21	2.00	0.44
2:C:179:ASP:OD1	2:C:180:ASP:N	2.50	0.44
2:C:911:ASN:OD1	2:C:912:LYS:N	2.50	0.44
2:C:2581:ARG:HG3	2:C:2630:PHE:CD1	2.53	0.44
2:C:3316:LYS:C	2:C:3318:HIS:H	2.25	0.44
2:A:520:ARG:O	2:A:524:GLU:HG2	2.18	0.44
2:A:964:MET:HE3	2:A:964:MET:HB2	1.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2114:GLU:OE1	2:A:2114:GLU:N	2.37	0.44
2:A:2581:ARG:HG3	2:A:2630:PHE:CD1	2.53	0.44
2:A:2710:ASN:OD1	2:A:2711:ILE:N	2.51	0.44
2:A:2736:LYS:HZ3	2:A:2754:GLN:HE21	1.66	0.44
2:A:3246:MET:HB3	2:A:3306:ILE:CD1	2.48	0.44
2:D:981:MET:HE1	2:D:1060:TYR:CE1	2.53	0.44
2:D:1928:PHE:HE2	2:D:1996:LEU:HD13	1.82	0.44
2:D:2710:ASN:OD1	2:D:2711:ILE:N	2.51	0.44
2:D:2786:GLY:C	2:D:2906:GLY:HA2	2.42	0.44
2:D:4045:LYS:HZ2	2:D:4078:LEU:HB3	1.82	0.44
2:D:4048:PHE:O	2:D:4051:ALA:HB3	2.18	0.44
2:D:4079:ASP:O	2:D:4082:GLU:HG3	2.16	0.44
2:D:4911:GLN:HG2	2:D:4912:GLU:N	2.33	0.44
2:B:230:GLY:HA3	2:B:285:SER:O	2.18	0.44
2:B:395:HIS:CE1	2:B:396:GLU:HG3	2.53	0.44
2:B:2736:LYS:HZ3	2:B:2754:GLN:HE21	1.66	0.44
2:B:2786:GLY:C	2:B:2906:GLY:HA2	2.42	0.44
2:C:195:SER:HB3	2:C:202:HIS:HB2	2.00	0.44
2:C:238:HIS:HA	2:C:403:ILE:HG12	2.00	0.44
2:C:981:MET:HE1	2:C:1060:TYR:CE1	2.53	0.44
2:C:1665:CYS:HB3	2:C:1676:LEU:HD12	2.00	0.44
2:C:1928:PHE:HE2	2:C:1996:LEU:HD13	1.82	0.44
2:C:2086:VAL:HG22	2:C:3687:LEU:HD13	1.99	0.44
2:C:2585:MET:O	2:C:2585:MET:HG2	2.17	0.44
2:C:3981:MET:HE3	2:C:3981:MET:HB3	1.88	0.44
2:C:4602:ARG:HH12	2:C:4627:LYS:HD2	1.83	0.44
2:C:4639:SER:OG	2:C:4642:ASN:HB2	2.18	0.44
2:A:140:THR:OG1	2:A:141:ASP:N	2.51	0.44
2:A:230:GLY:HA3	2:A:285:SER:O	2.18	0.44
2:A:290:ARG:NH2	2:A:350:GLY:HA3	2.27	0.44
2:A:911:ASN:OD1	2:A:912:LYS:N	2.50	0.44
2:A:3641:ILE:HD11	2:A:3695:MET:HG2	1.99	0.44
2:A:4045:LYS:NZ	2:A:4078:LEU:HB3	2.33	0.44
2:D:670:TYR:O	2:D:673:TRP:NE1	2.50	0.44
2:D:921:PHE:HB2	2:D:929:ARG:HD3	2.00	0.44
2:D:2585:MET:HG2	2:D:2585:MET:O	2.17	0.44
2:D:3018:ARG:HA	2:D:3021:LEU:HD13	2.00	0.44
2:B:1777:GLN:O	2:B:1778:TYR:HB2	2.17	0.44
2:B:2710:ASN:OD1	2:B:2711:ILE:N	2.51	0.44
2:B:3235:MET:HA	2:B:3235:MET:HE2	2.00	0.44
2:B:4162:LYS:NZ	2:B:4203:ALA:HB1	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:4639:SER:OG	2:B:4642:ASN:HB2	2.18	0.44
2:B:4911:GLN:HG2	2:B:4912:GLU:N	2.33	0.44
2:C:673:TRP:HH2	2:C:1028:ARG:HH22	1.65	0.44
2:C:2710:ASN:OD1	2:C:2711:ILE:N	2.51	0.44
2:C:4045:LYS:NZ	2:C:4078:LEU:HB3	2.33	0.44
2:C:4630:TRP:CH2	2:C:4707:MET:HE3	2.52	0.44
2:C:4911:GLN:HG2	2:C:4912:GLU:N	2.33	0.44
2:A:76:ARG:HH12	2:D:3891:TYR:HA	1.82	0.44
2:A:673:TRP:HH2	2:A:1028:ARG:HH22	1.65	0.44
2:A:1777:GLN:O	2:A:1778:TYR:HB2	2.18	0.44
2:A:1946:GLU:OE1	2:A:1947:VAL:HG23	2.18	0.44
2:A:2754:GLN:OE1	2:A:2756:LEU:HG	2.17	0.44
2:A:3319:PHE:O	2:A:3323:MET:N	2.40	0.44
2:A:4139:MET:HE3	2:A:4143:LYS:HA	1.98	0.44
2:D:69:LEU:HD13	2:D:113:LEU:HD21	1.99	0.44
2:D:637:LEU:HD22	2:D:1679:HIS:CD2	2.53	0.44
2:D:989:THR:HG22	2:D:991:SER:H	1.83	0.44
2:D:1016:TRP:HB3	2:D:1032:LEU:HD11	1.99	0.44
2:D:2403:ALA:HB2	2:D:2475:VAL:HG22	2.00	0.44
2:D:3235:MET:HE2	2:D:3235:MET:HA	2.00	0.44
2:B:278:GLU:HG2	2:B:296:ARG:HB2	1.99	0.44
2:B:674:TYR:HE1	2:B:756:SER:HB2	1.82	0.44
2:B:785:ASP:OD2	2:B:786:GLY:N	2.50	0.44
2:B:1425:THR:O	2:B:1564:MET:HB2	2.18	0.44
2:B:1946:GLU:OE1	2:B:1947:VAL:HG23	2.18	0.44
2:B:3097:THR:HA	2:B:3101:LEU:HB3	1.99	0.44
2:B:3124:GLU:C	2:B:3126:VAL:H	2.25	0.44
2:B:3141:GLY:HA2	2:B:3152:ARG:NH2	2.33	0.44
2:B:4264:LEU:HD23	2:B:4264:LEU:H	1.83	0.44
2:C:2403:ALA:HB2	2:C:2475:VAL:HG22	2.00	0.44
2:C:2413:LYS:HE3	2:C:2415:GLU:HB3	1.99	0.44
2:C:3875:VAL:HG21	2:C:3935:LEU:HD22	2.00	0.44
2:A:1665:CYS:HB3	2:A:1676:LEU:HD12	2.00	0.43
2:A:2278:GLN:HA	2:A:2281:VAL:HG12	1.99	0.43
2:A:4135:ARG:HH11	2:A:4911:GLN:HB2	1.82	0.43
2:A:4491:LEU:HD11	2:D:4280:VAL:HG12	1.99	0.43
2:D:278:GLU:HG2	2:D:296:ARG:HB2	2.00	0.43
2:D:673:TRP:HH2	2:D:1028:ARG:HH22	1.65	0.43
2:D:737:ILE:HD12	2:D:1482:ARG:HD3	1.99	0.43
2:D:927:GLN:HG2	2:D:928:GLU:N	2.34	0.43
2:D:2436:ILE:HG22	2:D:2491:GLY:HA3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:514:PHE:HD2	2:B:526:TRP:HB2	1.83	0.43
2:B:637:LEU:HD22	2:B:1679:HIS:CD2	2.53	0.43
2:B:655:MET:HE2	2:B:834:VAL:HG12	1.99	0.43
2:B:900:LEU:HD13	2:B:902:TRP:HZ3	1.83	0.43
2:B:2403:ALA:HB2	2:B:2475:VAL:HG22	2.00	0.43
2:B:2585:MET:O	2:B:2585:MET:HG2	2.17	0.43
2:B:2826:ILE:HD13	2:B:2898:ILE:HD13	2.00	0.43
2:B:3231:MET:CE	2:B:3234:VAL:H	2.30	0.43
2:B:3754:MET:HE2	2:B:3754:MET:HB3	1.68	0.43
2:B:4252:ILE:HG13	2:C:4707:MET:SD	2.58	0.43
2:C:278:GLU:HG2	2:C:296:ARG:HB2	1.99	0.43
2:C:514:PHE:HD2	2:C:526:TRP:HB2	1.83	0.43
2:C:674:TYR:HE1	2:C:756:SER:HB2	1.83	0.43
2:C:3005:THR:HG21	2:C:3045:VAL:HG21	1.99	0.43
2:C:3141:GLY:HA2	2:C:3152:ARG:NH2	2.33	0.43
2:C:3235:MET:HE2	2:C:3235:MET:HA	2.00	0.43
2:C:3643:ASP:OD1	2:C:3646:LYS:NZ	2.50	0.43
2:C:4238:ILE:H	2:C:4238:ILE:HD12	1.82	0.43
2:A:637:LEU:HD22	2:A:1679:HIS:CD2	2.53	0.43
2:A:989:THR:HG22	2:A:991:SER:H	1.83	0.43
2:A:1425:THR:O	2:A:1564:MET:HB2	2.18	0.43
2:A:4630:TRP:CH2	2:A:4707:MET:HE3	2.52	0.43
2:A:4639:SER:OG	2:A:4642:ASN:HB2	2.18	0.43
2:D:140:THR:OG1	2:D:141:ASP:N	2.51	0.43
2:D:195:SER:HB3	2:D:202:HIS:HB2	2.00	0.43
2:D:705:PRO:HB3	2:D:857:LEU:HD11	1.99	0.43
2:D:1077:VAL:O	2:D:1077:VAL:HG13	2.17	0.43
2:D:3171:LEU:HD13	2:D:3211:LEU:HD13	2.00	0.43
2:D:3754:MET:HE2	2:D:3754:MET:HB3	1.68	0.43
2:D:4496:ALA:HB1	2:D:4593:LEU:HD13	2.00	0.43
2:B:21:VAL:HG12	2:B:65:CYS:C	2.43	0.43
2:B:1102:TYR:HE1	2:B:1165:MET:HE2	1.83	0.43
2:B:4045:LYS:HZ2	2:B:4078:LEU:HB3	1.83	0.43
2:C:520:ARG:O	2:C:524:GLU:HG2	2.18	0.43
2:C:655:MET:HE2	2:C:834:VAL:HG12	1.99	0.43
2:C:944:LEU:HD21	2:C:950:VAL:HG22	2.01	0.43
2:C:1077:VAL:O	2:C:1077:VAL:HG13	2.18	0.43
2:C:2274:LEU:HG	2:C:2329:GLU:HG3	1.99	0.43
2:C:2389:MET:HE3	2:C:2460:PHE:HD1	1.84	0.43
2:C:4048:PHE:O	2:C:4051:ALA:HB3	2.18	0.43
2:A:545:ARG:HH11	2:A:582:SER:HA	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2268:TYR:HB3	2:A:2298:TYR:CZ	2.54	0.43
2:A:2436:ILE:HG22	2:A:2491:GLY:HA3	2.00	0.43
2:A:2859:GLU:C	2:A:2863:LYS:HZ3	2.22	0.43
2:A:4045:LYS:HZ2	2:A:4078:LEU:HB3	1.83	0.43
2:A:4160:TRP:HA	2:A:4165:VAL:HG21	2.00	0.43
2:D:1777:GLN:O	2:D:1778:TYR:HB2	2.18	0.43
2:D:2581:ARG:HG3	2:D:2630:PHE:CD1	2.53	0.43
2:D:2706:VAL:HB	2:D:2847:ASN:HD21	1.82	0.43
2:D:2984:SER:O	2:D:3001:LYS:NZ	2.36	0.43
2:D:3141:GLY:HA2	2:D:3152:ARG:NH2	2.33	0.43
2:D:3778:LEU:HD13	2:D:3854:PHE:CD1	2.49	0.43
2:B:195:SER:HB3	2:B:202:HIS:HB2	2.00	0.43
2:B:927:GLN:HG2	2:B:928:GLU:N	2.34	0.43
2:B:2436:ILE:HG22	2:B:2491:GLY:HA3	2.00	0.43
2:B:2749:ASP:OD1	2:B:2750:SER:N	2.50	0.43
2:B:3005:THR:HG21	2:B:3045:VAL:HG21	1.99	0.43
2:C:140:THR:OG1	2:C:141:ASP:N	2.51	0.43
2:C:2436:ILE:HG22	2:C:2491:GLY:HA3	2.00	0.43
2:C:3246:MET:HB3	2:C:3306:ILE:CD1	2.48	0.43
2:C:4496:ALA:HB1	2:C:4593:LEU:HD13	2.00	0.43
2:A:238:HIS:HA	2:A:403:ILE:HG12	2.00	0.43
2:A:3131:TYR:O	2:A:3135:THR:HG23	2.17	0.43
2:D:395:HIS:CE1	2:D:396:GLU:HG3	2.53	0.43
2:D:911:ASN:OD1	2:D:912:LYS:N	2.50	0.43
2:D:1896:MET:O	2:D:1896:MET:HG2	2.16	0.43
2:D:2935:GLU:HA	2:D:2938:GLN:CD	2.44	0.43
2:D:3210:SER:OG	2:D:3212:GLU:OE2	2.36	0.43
2:B:35:LEU:HD13	2:B:49:LEU:HD13	2.00	0.43
2:B:3159:LEU:HD23	2:B:3237:VAL:HG12	2.01	0.43
2:B:3246:MET:HB3	2:B:3306:ILE:CD1	2.48	0.43
2:C:1102:TYR:HE1	2:C:1165:MET:HE2	1.83	0.43
2:C:2465:LYS:NZ	2:C:2495:ASP:OD2	2.37	0.43
2:C:2549:LEU:HB3	2:C:2588:LEU:HD22	2.01	0.43
2:C:3273:MET:HG2	2:C:3273:MET:H	1.61	0.43
2:A:81:MET:HE3	2:A:81:MET:HB3	1.88	0.43
2:A:948:CYS:HA	2:A:1065:GLU:O	2.19	0.43
2:A:1002:ASN:O	2:A:1006:VAL:HG23	2.19	0.43
2:A:3216:GLU:HA	2:A:3219:VAL:HG22	2.00	0.43
2:A:3291:ASP:O	2:A:3292:GLU:HG2	2.18	0.43
2:A:4048:PHE:O	2:A:4051:ALA:HB3	2.18	0.43
2:A:4157:ARG:O	2:A:4161:GLU:OE1	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:4631:ASP:O	2:A:4634:VAL:HG12	2.19	0.43
2:D:1102:TYR:HE1	2:D:1165:MET:HE2	1.83	0.43
2:D:2389:MET:HE3	2:D:2460:PHE:HD1	1.83	0.43
2:B:290:ARG:NH2	2:B:350:GLY:HA3	2.27	0.43
2:B:944:LEU:HD21	2:B:950:VAL:HG22	2.01	0.43
2:B:2581:ARG:HG3	2:B:2630:PHE:CD1	2.53	0.43
2:B:3042:ALA:O	2:B:3046:MET:HG2	2.18	0.43
2:B:3131:TYR:O	2:B:3135:THR:HG23	2.17	0.43
2:B:3268:LEU:HD23	2:B:3268:LEU:HA	1.80	0.43
2:B:4496:ALA:HB1	2:B:4593:LEU:HD13	2.00	0.43
2:C:2706:VAL:HB	2:C:2847:ASN:HD21	1.83	0.43
2:C:3042:ALA:O	2:C:3046:MET:HG2	2.18	0.43
2:C:3122:ILE:HA	2:C:3126:VAL:HG13	2.01	0.43
2:C:4172:PHE:CE1	2:C:4176:VAL:HG11	2.54	0.43
2:A:35:LEU:HD13	2:A:49:LEU:HD13	2.00	0.43
2:A:900:LEU:HD13	2:A:902:TRP:HZ3	1.83	0.43
2:A:2826:ILE:HD13	2:A:2898:ILE:HD13	2.00	0.43
2:A:3141:GLY:HA2	2:A:3152:ARG:NH2	2.33	0.43
2:A:4157:ARG:O	2:A:4160:TRP:HB3	2.19	0.43
2:D:608:HIS:HB2	2:D:1656:HIS:CD2	2.54	0.43
2:D:2086:VAL:HG22	2:D:3687:LEU:HD13	1.99	0.43
2:D:2413:LYS:HE3	2:D:2415:GLU:HB3	1.99	0.43
2:D:3005:THR:HG21	2:D:3045:VAL:HG21	1.99	0.43
2:D:4625:ASP:OD1	2:D:4625:ASP:N	2.47	0.43
2:D:4631:ASP:O	2:D:4634:VAL:HG12	2.19	0.43
2:D:4639:SER:OG	2:D:4642:ASN:HB2	2.18	0.43
2:D:4907:THR:HB	2:D:4911:GLN:HE22	1.84	0.43
2:B:948:CYS:HA	2:B:1065:GLU:O	2.19	0.43
2:B:2268:TYR:HB3	2:B:2298:TYR:CZ	2.54	0.43
2:B:2389:MET:HE3	2:B:2460:PHE:HD1	1.83	0.43
2:B:2756:LEU:HD22	2:B:2763:LEU:HG	2.01	0.43
2:B:2889:ALA:O	2:B:2892:ILE:HG22	2.19	0.43
2:B:3273:MET:HG2	2:B:3273:MET:H	1.61	0.43
2:B:4306:PHE:HA	2:B:4309:ILE:HG12	2.00	0.43
2:B:4907:THR:HB	2:B:4911:GLN:HE22	1.84	0.43
2:C:900:LEU:HD13	2:C:902:TRP:HZ3	1.83	0.43
2:C:927:GLN:HG2	2:C:928:GLU:N	2.34	0.43
2:C:1425:THR:O	2:C:1564:MET:HB2	2.18	0.43
2:C:2889:ALA:O	2:C:2892:ILE:HG22	2.19	0.43
2:C:3159:LEU:HD23	2:C:3237:VAL:HG12	2.01	0.43
2:C:3210:SER:OG	2:C:3212:GLU:OE2	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:3261:ALA:C	2:C:3263:MET:H	2.27	0.43
2:C:3295:TRP:HA	2:C:3298:ARG:HB2	2.01	0.43
2:C:4079:ASP:HB3	2:C:4082:GLU:HG3	1.99	0.43
2:C:4157:ARG:O	2:C:4161:GLU:OE1	2.36	0.43
2:C:4625:ASP:OD1	2:C:4625:ASP:N	2.47	0.43
2:A:278:GLU:HG2	2:A:296:ARG:HB2	1.99	0.43
2:A:3939:ARG:NH1	2:B:173:GLU:HG2	2.33	0.43
2:A:3981:MET:HE3	2:A:3981:MET:HB3	1.88	0.43
2:A:4907:THR:HB	2:A:4911:GLN:HE22	1.84	0.43
2:D:900:LEU:HD13	2:D:902:TRP:HZ3	1.83	0.43
2:D:948:CYS:HA	2:D:1065:GLU:O	2.19	0.43
2:D:2172:MET:HE3	2:D:2172:MET:HB3	1.84	0.43
2:D:2670:SER:HB2	2:D:2973:GLN:HG2	2.01	0.43
2:D:3122:ILE:HA	2:D:3126:VAL:HG13	2.01	0.43
2:D:3291:ASP:O	2:D:3292:GLU:HG2	2.18	0.43
2:D:4157:ARG:O	2:D:4160:TRP:HB3	2.19	0.43
2:B:1641:ILE:HA	2:B:1644:LEU:HD13	2.01	0.43
2:B:2413:LYS:HE3	2:B:2415:GLU:HB3	1.99	0.43
2:B:2859:GLU:C	2:B:2863:LYS:HZ3	2.23	0.43
2:B:3291:ASP:O	2:B:3292:GLU:HG2	2.18	0.43
2:B:3641:ILE:HD11	2:B:3695:MET:HG2	1.99	0.43
2:B:4814:MET:HA	2:B:4814:MET:HE2	2.01	0.43
2:B:4920:PHE:HA	2:B:4923:MET:HG2	2.01	0.43
2:C:475:LYS:HE3	2:C:475:LYS:HB3	1.75	0.43
2:C:608:HIS:HB2	2:C:1656:HIS:CD2	2.54	0.43
2:C:3983:LEU:O	2:C:3987:GLU:HG3	2.19	0.43
2:A:705:PRO:HB3	2:A:857:LEU:HD11	1.99	0.43
2:A:944:LEU:HD21	2:A:950:VAL:HG22	2.01	0.43
2:A:3159:LEU:HG	2:A:3241:MET:HB3	2.01	0.43
2:A:4306:PHE:HA	2:A:4309:ILE:HG12	2.00	0.43
2:A:4496:ALA:HB1	2:A:4593:LEU:HD13	2.00	0.43
2:A:4630:TRP:HE1	2:A:4712:VAL:HG23	1.82	0.43
2:A:4723:ALA:HB1	2:D:4294:LEU:HD21	2.00	0.43
1:F:83:TYR:OH	2:B:1768:PHE:O	2.28	0.43
2:D:1425:THR:O	2:D:1564:MET:HB2	2.18	0.43
2:D:4264:LEU:HD23	2:D:4264:LEU:H	1.83	0.43
2:D:4563:GLU:HG2	2:D:4568:MET:HB2	1.99	0.43
2:B:1421:MET:O	2:B:1576:LYS:NZ	2.51	0.43
2:B:3159:LEU:HG	2:B:3241:MET:HB3	2.01	0.43
2:B:4602:ARG:HH12	2:B:4627:LYS:HD2	1.83	0.43
2:C:428:ARG:NH2	2:C:446:ASP:OD2	2.45	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:989:THR:HG22	2:C:991:SER:H	1.83	0.43
2:C:2392:TYR:O	2:C:2396:ILE:HG12	2.19	0.43
2:C:3328:LYS:HA	2:C:3328:LYS:CE	2.32	0.43
2:C:4631:ASP:O	2:C:4634:VAL:HG12	2.19	0.43
2:A:395:HIS:CE1	2:A:396:GLU:HG3	2.53	0.43
2:A:732:LEU:HB3	2:A:779:PHE:CZ	2.54	0.43
2:A:981:MET:HE1	2:A:1060:TYR:CE1	2.53	0.43
2:A:1308:ILE:HD13	2:A:1445:TRP:CZ3	2.41	0.43
2:A:1641:ILE:HA	2:A:1644:LEU:HD13	2.01	0.43
2:A:1664:VAL:HG23	2:A:1676:LEU:HD11	2.01	0.43
2:A:2413:LYS:HE3	2:A:2415:GLU:HB3	1.99	0.43
2:A:2705:PRO:HG3	2:A:2854:LYS:HG3	2.01	0.43
2:A:2935:GLU:HA	2:A:2938:GLN:CD	2.44	0.43
2:A:3171:LEU:HD13	2:A:3211:LEU:HD13	2.00	0.43
2:A:3261:ALA:C	2:A:3263:MET:H	2.27	0.43
2:A:3316:LYS:C	2:A:3318:HIS:H	2.25	0.43
2:A:4814:MET:HE2	2:A:4814:MET:HA	2.01	0.43
2:A:4911:GLN:HG2	2:A:4912:GLU:N	2.33	0.43
2:D:514:PHE:CD2	2:D:526:TRP:HB2	2.54	0.43
2:D:545:ARG:HH11	2:D:582:SER:HA	1.83	0.43
2:D:2209:GLN:O	2:D:2212:LYS:HB2	2.19	0.43
2:D:2889:ALA:O	2:D:2892:ILE:HG22	2.19	0.43
2:D:2943:PHE:CD1	2:D:2954:PHE:HE1	2.37	0.43
2:D:3026:ALA:O	2:D:3030:VAL:HG13	2.19	0.43
2:D:3216:GLU:HA	2:D:3219:VAL:HG22	2.00	0.43
2:D:4045:LYS:NZ	2:D:4078:LEU:HB3	2.33	0.43
2:B:140:THR:OG1	2:B:141:ASP:N	2.51	0.43
2:B:243:GLU:OE1	2:B:389:ARG:HD3	2.19	0.43
2:B:2209:GLN:O	2:B:2212:LYS:HB2	2.19	0.43
2:B:3016:ARG:NH2	2:B:3067:ASP:OD1	2.48	0.43
2:B:4045:LYS:NZ	2:B:4078:LEU:HB3	2.33	0.43
2:B:4172:PHE:CE1	2:B:4176:VAL:HG11	2.54	0.43
2:B:4563:GLU:HG2	2:B:4568:MET:HB2	2.00	0.43
2:B:4907:THR:HB	2:B:4911:GLN:NE2	2.34	0.43
2:C:35:LEU:HD13	2:C:49:LEU:HD13	2.00	0.43
2:C:921:PHE:HB2	2:C:929:ARG:HD3	2.00	0.43
2:C:4888:CYS:HA	4:C:5002:ATP:N7	2.34	0.43
2:C:4907:THR:HB	2:C:4911:GLN:HE22	1.84	0.43
2:A:608:HIS:HB2	2:A:1656:HIS:CD2	2.54	0.43
2:A:921:PHE:HB2	2:A:929:ARG:HD3	2.00	0.43
2:A:927:GLN:HG2	2:A:928:GLU:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1505:LEU:HD12	2:A:1505:LEU:HA	1.89	0.43
2:A:2889:ALA:O	2:A:2892:ILE:HG22	2.19	0.43
2:A:3210:SER:OG	2:A:3212:GLU:OE2	2.36	0.43
2:A:4107:GLU:OE1	2:A:4149:TYR:OH	2.23	0.43
1:F:80:ASP:OD1	1:F:81:VAL:N	2.52	0.43
2:D:2943:PHE:O	2:D:2947:SER:OG	2.22	0.43
2:D:3159:LEU:HD23	2:D:3237:VAL:HG12	2.01	0.43
2:D:3875:VAL:HG21	2:D:3935:LEU:HD22	2.00	0.43
2:D:4172:PHE:CE1	2:D:4176:VAL:HG11	2.54	0.43
2:B:732:LEU:HB3	2:B:779:PHE:CZ	2.54	0.43
2:B:1665:CYS:HB3	2:B:1676:LEU:HD12	2.00	0.43
2:B:2179:LEU:HA	2:B:2187:ILE:HD12	2.01	0.43
2:B:3261:ALA:C	2:B:3263:MET:H	2.27	0.43
2:B:4030:ASP:O	2:B:4033:LYS:N	2.52	0.43
2:C:243:GLU:OE1	2:C:389:ARG:HD3	2.19	0.43
2:C:732:LEU:HB3	2:C:779:PHE:CZ	2.54	0.43
2:C:2379:ASP:OD1	2:C:2380:ASP:N	2.52	0.43
1:H:80:ASP:OD1	1:H:81:VAL:N	2.52	0.42
2:A:1421:MET:O	2:A:1576:LYS:NZ	2.51	0.42
2:A:2666:LEU:HB3	2:A:2667:PRO:HD3	2.01	0.42
2:A:3295:TRP:HA	2:A:3298:ARG:HB2	2.01	0.42
2:A:4172:PHE:CE1	2:A:4176:VAL:HG11	2.54	0.42
2:D:972:LEU:HD23	2:D:972:LEU:H	1.84	0.42
2:D:1002:ASN:O	2:D:1006:VAL:HG23	2.19	0.42
2:D:2379:ASP:OD1	2:D:2380:ASP:N	2.52	0.42
2:D:2703:PRO:HB2	2:D:2854:LYS:CD	2.47	0.42
2:D:2705:PRO:HG3	2:D:2854:LYS:HG3	2.01	0.42
2:B:514:PHE:CD2	2:B:526:TRP:HB2	2.54	0.42
2:B:2943:PHE:CD1	2:B:2954:PHE:HE1	2.37	0.42
2:B:3026:ALA:O	2:B:3030:VAL:HG13	2.19	0.42
2:B:3171:LEU:HD13	2:B:3211:LEU:HD13	2.00	0.42
2:B:3210:SER:OG	2:B:3212:GLU:OE2	2.36	0.42
2:B:3983:LEU:O	2:B:3987:GLU:HG3	2.18	0.42
2:B:4644:TYR:CD1	2:B:4645:TRP:HD1	2.37	0.42
2:C:230:GLY:HA3	2:C:285:SER:O	2.18	0.42
2:C:2756:LEU:HD22	2:C:2763:LEU:HG	2.01	0.42
2:C:2943:PHE:CD1	2:C:2954:PHE:HE1	2.37	0.42
2:C:4306:PHE:HA	2:C:4309:ILE:HG12	2.00	0.42
1:H:27:TYR:N	1:H:40:SER:OG	2.51	0.42
2:A:241:MET:N	2:A:241:MET:HE2	2.34	0.42
2:A:2943:PHE:CD1	2:A:2954:PHE:HE1	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2998:ASN:O	2:A:3002:GLU:HG3	2.20	0.42
2:A:3718:GLU:O	2:A:3722:GLN:HG2	2.19	0.42
2:A:3875:VAL:HG21	2:A:3935:LEU:HD22	2.00	0.42
2:A:4079:ASP:HB3	2:A:4082:GLU:HG3	1.99	0.42
2:D:2179:LEU:HD23	2:D:2187:ILE:HG21	2.01	0.42
2:D:3261:ALA:C	2:D:3263:MET:H	2.27	0.42
2:D:4888:CYS:HA	4:D:5002:ATP:N7	2.34	0.42
2:B:241:MET:HE2	2:B:241:MET:N	2.34	0.42
2:B:921:PHE:HB2	2:B:929:ARG:HD3	2.00	0.42
2:B:1438:PRO:HB2	2:B:1491:GLY:HA2	2.01	0.42
2:B:1748:LEU:HD23	2:B:1748:LEU:HA	1.94	0.42
2:B:2392:TYR:O	2:B:2396:ILE:HG12	2.19	0.42
2:B:2415:GLU:HA	2:B:2418:ARG:NH1	2.35	0.42
2:B:3122:ILE:HA	2:B:3126:VAL:HG13	2.01	0.42
2:B:3875:VAL:HG21	2:B:3935:LEU:HD22	2.00	0.42
2:B:4160:TRP:HA	2:B:4165:VAL:HG21	2.00	0.42
2:C:467:ASP:OD1	2:C:469:HIS:ND1	2.45	0.42
2:C:705:PRO:HB3	2:C:857:LEU:HD11	1.99	0.42
2:C:4030:ASP:O	2:C:4033:LYS:N	2.52	0.42
2:A:195:SER:HB3	2:A:202:HIS:HB2	2.00	0.42
2:A:972:LEU:HD23	2:A:972:LEU:H	1.85	0.42
2:A:4030:ASP:O	2:A:4033:LYS:N	2.52	0.42
2:A:4563:GLU:HG2	2:A:4568:MET:HB2	1.99	0.42
2:A:4907:THR:HB	2:A:4911:GLN:NE2	2.34	0.42
1:G:80:ASP:OD1	1:G:81:VAL:N	2.52	0.42
2:D:2549:LEU:HB3	2:D:2588:LEU:HD22	2.01	0.42
2:D:2998:ASN:O	2:D:3002:GLU:HG3	2.19	0.42
2:D:3983:LEU:O	2:D:3987:GLU:HG3	2.18	0.42
2:D:4644:TYR:CD1	2:D:4645:TRP:HD1	2.38	0.42
2:D:4704:LYS:HA	2:D:4704:LYS:HD3	1.92	0.42
2:D:4920:PHE:HA	2:D:4923:MET:HG2	2.01	0.42
2:B:670:TYR:OH	2:B:818:GLY:O	2.25	0.42
2:B:1002:ASN:O	2:B:1006:VAL:HG23	2.19	0.42
2:B:2479:GLU:N	2:B:2479:GLU:OE1	2.53	0.42
2:B:2549:LEU:HB3	2:B:2588:LEU:HD22	2.01	0.42
2:B:2726:GLU:OE1	2:B:2760:TYR:HB3	2.20	0.42
2:B:2935:GLU:HA	2:B:2938:GLN:CD	2.44	0.42
2:C:514:PHE:CD2	2:C:526:TRP:HB2	2.54	0.42
2:C:948:CYS:HA	2:C:1065:GLU:O	2.19	0.42
2:C:977:LYS:HA	2:C:978:PRO:HD3	1.83	0.42
2:C:2179:LEU:HD23	2:C:2187:ILE:HG21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:2479:GLU:OE1	2:C:2479:GLU:N	2.53	0.42
2:C:2826:ILE:HD13	2:C:2898:ILE:HD13	2.00	0.42
2:C:2935:GLU:HA	2:C:2938:GLN:CD	2.44	0.42
2:C:4644:TYR:CE1	2:C:4645:TRP:CD1	3.08	0.42
2:A:21:VAL:HG12	2:A:65:CYS:C	2.43	0.42
2:A:1438:PRO:HB2	2:A:1491:GLY:HA2	2.01	0.42
2:A:2549:LEU:HB3	2:A:2588:LEU:HD22	2.01	0.42
2:A:2776:LYS:O	2:A:2780:LYS:HG2	2.20	0.42
2:A:3026:ALA:O	2:A:3030:VAL:HG13	2.19	0.42
2:A:3122:ILE:HA	2:A:3126:VAL:HG13	2.01	0.42
2:A:3643:ASP:OD1	2:A:3646:LYS:NZ	2.50	0.42
2:A:4264:LEU:H	2:A:4264:LEU:HD23	1.83	0.42
1:E:80:ASP:OD1	1:E:81:VAL:N	2.52	0.42
1:G:36:LYS:H	2:C:647:ARG:HH21	1.67	0.42
2:D:944:LEU:HD21	2:D:950:VAL:HG22	2.01	0.42
2:D:2479:GLU:OE1	2:D:2479:GLU:N	2.52	0.42
2:D:2826:ILE:HD13	2:D:2898:ILE:HD13	2.00	0.42
2:D:3273:MET:HG2	2:D:3273:MET:H	1.60	0.42
2:D:4002:MET:HE2	2:D:4002:MET:HB3	1.83	0.42
2:B:1038:LEU:HD12	2:B:1038:LEU:HA	1.78	0.42
2:B:1664:VAL:HG23	2:B:1676:LEU:HD11	2.01	0.42
2:B:2705:PRO:HG3	2:B:2854:LYS:HG3	2.01	0.42
2:B:2988:ARG:NH2	2:C:1071:HIS:NE2	2.67	0.42
2:B:3216:GLU:HA	2:B:3219:VAL:HG22	2.01	0.42
2:B:3718:GLU:O	2:B:3722:GLN:HG2	2.19	0.42
2:B:4639:SER:OG	2:B:4639:SER:O	2.33	0.42
2:C:545:ARG:HH11	2:C:582:SER:HA	1.83	0.42
2:C:1076:GLU:HG2	2:C:1076:GLU:O	2.20	0.42
2:C:2209:GLN:O	2:C:2212:LYS:HB2	2.19	0.42
2:C:3291:ASP:O	2:C:3292:GLU:HG2	2.18	0.42
2:C:4644:TYR:CD1	2:C:4645:TRP:HD1	2.37	0.42
2:A:317:MET:SD	2:A:321:LYS:NZ	2.89	0.42
2:A:2898:ILE:HG23	2:B:1498:GLN:NE2	2.34	0.42
2:A:4920:PHE:HA	2:A:4923:MET:HG2	2.01	0.42
1:G:27:TYR:N	1:G:40:SER:OG	2.51	0.42
2:D:35:LEU:HD13	2:D:49:LEU:HD13	2.00	0.42
2:D:238:HIS:CG	2:D:239:GLY:N	2.88	0.42
2:D:2415:GLU:HA	2:D:2418:ARG:NH1	2.35	0.42
2:B:56:LYS:H	2:B:56:LYS:HG2	1.48	0.42
2:B:255:GLU:H	2:B:255:GLU:CD	2.26	0.42
2:B:972:LEU:HD23	2:B:972:LEU:H	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:989:THR:HG22	2:B:991:SER:H	1.83	0.42
2:B:1133:ARG:HD3	2:B:1133:ARG:HA	1.80	0.42
2:B:2325:ILE:HD13	2:B:2426:LEU:HD11	2.02	0.42
2:B:2666:LEU:HB3	2:B:2667:PRO:HD3	2.01	0.42
2:B:3166:PHE:CE2	2:B:3168:VAL:HB	2.55	0.42
2:B:4177:VAL:HG11	2:B:4880:VAL:HA	2.02	0.42
2:B:4631:ASP:O	2:B:4634:VAL:HG12	2.19	0.42
2:C:2079:GLU:H	2:C:2079:GLU:CD	2.25	0.42
2:C:2325:ILE:HD13	2:C:2426:LEU:HD11	2.02	0.42
2:C:2670:SER:HB2	2:C:2973:GLN:HG2	2.01	0.42
2:C:2726:GLU:OE1	2:C:2760:TYR:HB3	2.20	0.42
2:C:2998:ASN:O	2:C:3002:GLU:HG3	2.20	0.42
2:C:3231:MET:CE	2:C:3234:VAL:H	2.30	0.42
2:C:3649:ALA:C	2:C:3652:PRO:HD2	2.45	0.42
2:C:4814:MET:HE2	2:C:4814:MET:HA	2.01	0.42
2:A:143:LEU:HD21	2:D:2325:ILE:CD1	2.33	0.42
2:A:181:LEU:N	2:A:212:TRP:O	2.48	0.42
2:A:514:PHE:CD2	2:A:526:TRP:HB2	2.54	0.42
2:A:2209:GLN:O	2:A:2212:LYS:HB2	2.19	0.42
2:A:3951:PHE:CD2	2:A:3975:GLN:HG3	2.55	0.42
2:D:601:LEU:HD13	2:D:610:VAL:HB	2.02	0.42
2:D:2779:LEU:N	2:D:2779:LEU:HD23	2.35	0.42
2:D:3148:VAL:HG12	2:D:3152:ARG:HH12	1.84	0.42
2:D:3649:ALA:C	2:D:3652:PRO:HD2	2.45	0.42
2:D:4190:VAL:O	2:D:4194:GLU:HG3	2.20	0.42
2:B:308:LEU:HD21	2:B:370:LEU:HD12	2.02	0.42
2:B:608:HIS:HB2	2:B:1656:HIS:CD2	2.54	0.42
2:B:3140:LEU:HD23	2:B:3140:LEU:HA	1.92	0.42
2:C:1475:LYS:HE3	2:C:1475:LYS:HB3	1.78	0.42
2:C:1939:ASN:ND2	2:C:1989:PRO:HG2	2.35	0.42
2:C:1988:CYS:HA	2:C:1989:PRO:HD3	1.92	0.42
2:A:56:LYS:HB2	2:A:57:ASN:OD1	2.20	0.42
2:A:2179:LEU:HD23	2:A:2187:ILE:HG21	2.01	0.42
2:A:2389:MET:HE3	2:A:2460:PHE:HD1	1.83	0.42
2:A:2761:LYS:HD3	2:A:2761:LYS:HA	1.81	0.42
2:A:2852:TRP:HA	2:A:2855:LYS:HZ3	1.84	0.42
2:A:3205:CYS:HB2	2:A:3208:ILE:HG12	2.02	0.42
2:A:3983:LEU:O	2:A:3987:GLU:HG3	2.18	0.42
2:A:4248:LEU:HB3	2:B:4707:MET:CE	2.40	0.42
2:A:4888:CYS:HA	4:A:5002:ATP:N7	2.34	0.42
2:D:890:HIS:HA	2:D:893:TRP:CE3	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1086:ARG:NH2	2:D:1254:ARG:HG3	2.35	0.42
2:D:1664:VAL:HG23	2:D:1676:LEU:HD11	2.01	0.42
2:D:1939:ASN:ND2	2:D:1989:PRO:HG2	2.35	0.42
2:D:3159:LEU:HG	2:D:3241:MET:HB3	2.01	0.42
2:D:3951:PHE:CD2	2:D:3975:GLN:HG3	2.55	0.42
2:D:4907:THR:HB	2:D:4911:GLN:NE2	2.34	0.42
2:B:697:TRP:CE2	2:B:759:LEU:HB2	2.54	0.42
2:B:1939:ASN:ND2	2:B:1989:PRO:HG2	2.35	0.42
2:B:2235:ARG:NH2	2:B:2296:GLU:OE1	2.53	0.42
2:B:2379:ASP:OD1	2:B:2380:ASP:N	2.52	0.42
2:B:3295:TRP:HA	2:B:3298:ARG:HB2	2.01	0.42
2:C:697:TRP:CE2	2:C:759:LEU:HB2	2.54	0.42
2:C:1002:ASN:O	2:C:1006:VAL:HG23	2.19	0.42
2:C:1641:ILE:HA	2:C:1644:LEU:HD13	2.01	0.42
2:C:2268:TYR:HB3	2:C:2298:TYR:CZ	2.54	0.42
2:C:2705:PRO:HG3	2:C:2854:LYS:HG3	2.01	0.42
2:C:2779:LEU:HD23	2:C:2779:LEU:N	2.35	0.42
2:C:3148:VAL:HG12	2:C:3152:ARG:HH12	1.84	0.42
2:C:3216:GLU:HA	2:C:3219:VAL:HG22	2.01	0.42
2:C:4177:VAL:HG11	2:C:4880:VAL:HA	2.02	0.42
2:A:15:ARG:NH2	2:A:110:HIS:HB3	2.35	0.42
2:A:238:HIS:CG	2:A:239:GLY:N	2.88	0.42
2:A:243:GLU:OE1	2:A:389:ARG:HD3	2.19	0.42
2:A:1246:ASP:OD1	2:A:1693:TYR:OH	2.30	0.42
2:A:2172:MET:HE3	2:A:2172:MET:HB3	1.84	0.42
2:A:2235:ARG:NH2	2:A:2296:GLU:OE1	2.53	0.42
2:A:2447:LYS:HD3	2:A:2447:LYS:HA	1.83	0.42
2:A:2693:SER:HA	2:A:2702:ASN:O	2.20	0.42
2:A:2756:LEU:HD22	2:A:2763:LEU:HG	2.01	0.42
2:A:3112:ILE:HD12	2:A:3117:PHE:HB2	2.02	0.42
2:A:3148:VAL:HG12	2:A:3152:ARG:HH12	1.84	0.42
2:A:3159:LEU:HD23	2:A:3237:VAL:HG12	2.01	0.42
2:A:3965:ILE:HD13	2:A:3965:ILE:HA	1.91	0.42
2:A:4085:LYS:HE2	2:A:4085:LYS:HB2	1.93	0.42
2:A:4897:TYR:CD2	2:A:4960:LYS:HE2	2.55	0.42
2:D:21:VAL:HG12	2:D:65:CYS:C	2.44	0.42
2:D:68:VAL:HG21	2:D:122:ARG:NH2	2.35	0.42
2:D:1948:MET:SD	2:D:1951:LEU:HD23	2.60	0.42
2:D:2756:LEU:HD22	2:D:2763:LEU:HG	2.01	0.42
2:D:3112:ILE:HD12	2:D:3117:PHE:HB2	2.02	0.42
2:D:3718:GLU:O	2:D:3722:GLN:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:4644:TYR:CE1	2:D:4645:TRP:CD1	3.08	0.42
2:D:4776:VAL:HG22	2:C:4743:LEU:HD23	2.02	0.42
2:B:1128:LEU:HD23	2:B:1128:LEU:HA	1.93	0.42
2:B:2397:ASP:O	2:B:2401:ARG:HG3	2.20	0.42
2:B:2670:SER:HB2	2:B:2973:GLN:HG2	2.01	0.42
2:B:2693:SER:HA	2:B:2702:ASN:O	2.20	0.42
2:B:2776:LYS:O	2:B:2780:LYS:HG2	2.20	0.42
2:B:3951:PHE:CD2	2:B:3975:GLN:HG3	2.55	0.42
2:C:68:VAL:HG21	2:C:122:ARG:NH2	2.35	0.42
2:C:904:TYR:HB2	2:C:919:VAL:HG22	2.01	0.42
2:C:1133:ARG:HD3	2:C:1133:ARG:HA	1.80	0.42
2:C:1421:MET:HA	2:C:1421:MET:CE	2.43	0.42
2:C:2179:LEU:HA	2:C:2187:ILE:HD12	2.01	0.42
2:C:3026:ALA:O	2:C:3030:VAL:HG13	2.19	0.42
2:C:3159:LEU:HG	2:C:3241:MET:HB3	2.01	0.42
2:C:3718:GLU:O	2:C:3722:GLN:HG2	2.19	0.42
2:C:4157:ARG:O	2:C:4160:TRP:HB3	2.19	0.42
2:C:4160:TRP:HA	2:C:4165:VAL:HG21	2.00	0.42
2:C:4264:LEU:HD23	2:C:4264:LEU:H	1.83	0.42
2:C:4764:GLY:HA2	2:C:4767:LEU:HB2	2.02	0.42
2:A:56:LYS:H	2:A:56:LYS:HG2	1.48	0.42
2:A:281:ARG:HD2	2:A:345:GLU:OE2	2.20	0.42
2:A:697:TRP:CE2	2:A:759:LEU:HB2	2.54	0.42
2:A:890:HIS:HA	2:A:893:TRP:CE3	2.55	0.42
2:A:1086:ARG:NH2	2:A:1254:ARG:HG3	2.35	0.42
2:A:2325:ILE:HD13	2:A:2426:LEU:HD11	2.02	0.42
2:A:2397:ASP:O	2:A:2401:ARG:HG3	2.20	0.42
2:A:2577:CYS:HB2	2:A:2609:LEU:HD11	2.02	0.42
2:A:4255:LEU:HD13	2:A:4293:THR:OG1	2.20	0.42
2:A:4644:TYR:CE1	2:A:4645:TRP:CD1	3.08	0.42
2:D:697:TRP:CE2	2:D:759:LEU:HB2	2.54	0.42
2:D:1475:LYS:HE3	2:D:1475:LYS:HB3	1.79	0.42
2:D:1641:ILE:HA	2:D:1644:LEU:HD13	2.01	0.42
2:D:2235:ARG:NH2	2:D:2296:GLU:OE1	2.53	0.42
2:D:2325:ILE:HD13	2:D:2426:LEU:HD11	2.02	0.42
2:D:2397:ASP:O	2:D:2401:ARG:HG3	2.20	0.42
2:D:3295:TRP:HA	2:D:3298:ARG:HB2	2.00	0.42
2:D:3643:ASP:OD1	2:D:3646:LYS:NZ	2.50	0.42
2:B:139:SER:O	2:B:141:ASP:N	2.49	0.42
2:B:261:HIS:HD2	2:B:263:GLU:HG3	1.85	0.42
2:B:981:MET:HE2	2:B:981:MET:HB3	1.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3237:VAL:C	2:B:3240:PRO:HD2	2.45	0.42
2:B:4157:ARG:O	2:B:4160:TRP:HB3	2.19	0.42
2:B:4888:CYS:HA	4:B:5002:ATP:N7	2.34	0.42
2:C:308:LEU:HD21	2:C:370:LEU:HD12	2.02	0.42
2:C:601:LEU:HD13	2:C:610:VAL:HB	2.02	0.42
2:C:1664:VAL:HG23	2:C:1676:LEU:HD11	2.01	0.42
2:C:4190:VAL:O	2:C:4194:GLU:HG3	2.20	0.42
2:C:4255:LEU:HD13	2:C:4293:THR:OG1	2.20	0.42
2:A:1102:TYR:N	2:A:1237:GLU:O	2.53	0.42
2:A:3231:MET:CE	2:A:3234:VAL:H	2.30	0.42
2:A:4886:THR:O	2:A:4895:ASN:N	2.53	0.42
2:D:241:MET:HE2	2:D:241:MET:N	2.34	0.42
2:D:281:ARG:HD2	2:D:345:GLU:OE2	2.20	0.42
2:D:964:MET:HE3	2:D:964:MET:HB2	1.66	0.42
2:D:2776:LYS:O	2:D:2780:LYS:HG2	2.20	0.42
2:D:3184:TYR:CD2	2:D:3201:VAL:HG22	2.46	0.42
2:D:3790:PHE:HE1	2:D:3858:LEU:HD23	1.85	0.42
2:D:4306:PHE:HA	2:D:4309:ILE:HG12	2.00	0.42
2:D:4914:ASN:HB3	2:D:4917:ASN:HB2	2.02	0.42
2:B:56:LYS:HB2	2:B:57:ASN:OD1	2.20	0.42
2:B:1724:GLU:H	2:B:1724:GLU:HG2	1.42	0.42
2:B:4190:VAL:O	2:B:4194:GLU:HG3	2.20	0.42
2:B:4897:TYR:CD2	2:B:4960:LYS:HE2	2.55	0.42
2:C:21:VAL:HG12	2:C:65:CYS:C	2.44	0.42
2:C:2397:ASP:O	2:C:2401:ARG:HG3	2.20	0.42
2:C:2496:LEU:HD23	2:C:2520:LEU:HD13	2.02	0.42
2:C:3171:LEU:HD13	2:C:3211:LEU:HD13	2.00	0.42
2:C:4907:THR:HB	2:C:4911:GLN:NE2	2.34	0.42
2:A:601:LEU:HD13	2:A:610:VAL:HB	2.02	0.41
2:A:904:TYR:HB2	2:A:919:VAL:HG22	2.01	0.41
2:A:1475:LYS:HB3	2:A:1475:LYS:HE3	1.79	0.41
2:A:1948:MET:SD	2:A:1951:LEU:HD23	2.60	0.41
2:A:2779:LEU:N	2:A:2779:LEU:HD23	2.35	0.41
2:A:3046:MET:HA	2:A:3046:MET:CE	2.50	0.41
2:A:3217:GLU:O	2:A:3220:GLU:HG3	2.20	0.41
2:A:3237:VAL:C	2:A:3240:PRO:HD2	2.45	0.41
2:A:3649:ALA:C	2:A:3652:PRO:HD2	2.45	0.41
2:A:3793:LEU:HD23	2:A:3793:LEU:HA	1.93	0.41
2:A:4597:LEU:HG	2:A:4601:LYS:HZ2	1.85	0.41
2:D:56:LYS:HB2	2:D:57:ASN:OD1	2.20	0.41
2:D:243:GLU:OE1	2:D:389:ARG:HD3	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:732:LEU:HB3	2:D:779:PHE:CZ	2.54	0.41
2:D:1438:PRO:HB2	2:D:1491:GLY:HA2	2.01	0.41
2:D:2666:LEU:HB3	2:D:2667:PRO:HD3	2.01	0.41
2:D:2726:GLU:OE1	2:D:2760:TYR:HB3	2.20	0.41
2:D:4030:ASP:O	2:D:4033:LYS:N	2.52	0.41
2:D:4587:ILE:CD1	2:D:4722:LEU:HB3	2.50	0.41
2:D:4664:ASP:O	2:D:4667:SER:OG	2.36	0.41
2:D:4764:GLY:HA2	2:D:4767:LEU:HB2	2.02	0.41
2:B:15:ARG:NH2	2:B:110:HIS:HB3	2.35	0.41
2:B:890:HIS:HA	2:B:893:TRP:CE3	2.55	0.41
2:B:2496:LEU:HD23	2:B:2520:LEU:HD13	2.02	0.41
2:B:2984:SER:O	2:B:3001:LYS:NZ	2.36	0.41
2:B:3649:ALA:C	2:B:3652:PRO:HD2	2.45	0.41
2:B:3778:LEU:HD13	2:B:3854:PHE:CD1	2.49	0.41
2:B:3790:PHE:HE1	2:B:3858:LEU:HD23	1.85	0.41
2:B:4291:PHE:CZ	2:B:4295:LEU:HD11	2.55	0.41
2:B:4644:TYR:CE1	2:B:4645:TRP:CD1	3.08	0.41
2:C:281:ARG:HD2	2:C:345:GLU:OE2	2.20	0.41
2:C:1128:LEU:HD23	2:C:1128:LEU:HA	1.93	0.41
2:C:1303:ARG:N	2:C:1589:GLN:O	2.50	0.41
2:C:4587:ILE:CD1	2:C:4722:LEU:HB3	2.50	0.41
2:A:255:GLU:H	2:A:255:GLU:CD	2.26	0.41
2:A:261:HIS:HD2	2:A:263:GLU:HG3	1.85	0.41
2:A:1076:GLU:O	2:A:1076:GLU:HG2	2.20	0.41
2:A:2726:GLU:OE1	2:A:2760:TYR:HB3	2.20	0.41
2:A:4644:TYR:CD1	2:A:4645:TRP:HD1	2.38	0.41
1:F:26:HIS:HD2	1:F:41:ARG:CZ	2.34	0.41
2:D:1172:THR:HB	2:D:1190:LEU:HD22	2.03	0.41
2:D:4814:MET:HE2	2:D:4814:MET:HA	2.01	0.41
2:B:1907:CYS:O	2:B:1911:GLN:HG2	2.20	0.41
2:B:2581:ARG:HG3	2:B:2630:PHE:HD1	1.85	0.41
2:B:3643:ASP:OD1	2:B:3646:LYS:NZ	2.50	0.41
2:B:3805:LEU:HD11	2:B:3887:ASP:HB3	2.02	0.41
2:B:4764:GLY:HA2	2:B:4767:LEU:HB2	2.02	0.41
2:B:4888:CYS:HB2	4:B:5002:ATP:HN61	1.85	0.41
2:C:255:GLU:H	2:C:255:GLU:CD	2.26	0.41
2:C:972:LEU:HD23	2:C:972:LEU:H	1.85	0.41
2:C:3046:MET:HA	2:C:3046:MET:CE	2.50	0.41
2:C:4488:GLN:O	2:C:4492:LEU:HG	2.20	0.41
2:C:4920:PHE:HA	2:C:4923:MET:HG2	2.01	0.41
1:H:8:ILE:HA	2:D:730:LEU:HD11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:335:LYS:NZ	2:A:396:GLU:O	2.51	0.41
2:A:2479:GLU:OE1	2:A:2479:GLU:N	2.53	0.41
2:A:3166:PHE:CE2	2:A:3168:VAL:HB	2.55	0.41
2:A:3790:PHE:HE1	2:A:3858:LEU:HD23	1.85	0.41
2:A:4291:PHE:CZ	2:A:4295:LEU:HD11	2.55	0.41
1:F:27:TYR:N	1:F:40:SER:OG	2.51	0.41
2:D:317:MET:SD	2:D:321:LYS:NZ	2.89	0.41
2:D:892:LEU:HA	2:D:895:MET:HG3	2.03	0.41
2:D:904:TYR:HB2	2:D:919:VAL:HG22	2.01	0.41
2:D:1614:ARG:NH1	2:D:1614:ARG:HB3	2.36	0.41
2:D:2268:TYR:HB3	2:D:2298:TYR:CZ	2.54	0.41
2:D:3046:MET:HA	2:D:3046:MET:CE	2.50	0.41
2:D:3089:GLY:O	2:D:3093:ILE:HG12	2.21	0.41
2:B:281:ARG:HD2	2:B:345:GLU:OE2	2.20	0.41
2:B:475:LYS:HE3	2:B:475:LYS:HB3	1.75	0.41
2:B:1076:GLU:O	2:B:1076:GLU:HG2	2.20	0.41
2:B:3046:MET:HA	2:B:3046:MET:CE	2.50	0.41
2:C:241:MET:HE2	2:C:241:MET:N	2.34	0.41
2:C:544:ASN:ND2	2:C:547:ASN:OD1	2.54	0.41
2:C:890:HIS:HA	2:C:893:TRP:CE3	2.55	0.41
2:C:892:LEU:HA	2:C:895:MET:HG3	2.02	0.41
2:C:1086:ARG:NH2	2:C:1254:ARG:HG3	2.35	0.41
2:C:2235:ARG:NH2	2:C:2296:GLU:OE1	2.53	0.41
2:C:3217:GLU:O	2:C:3220:GLU:HG3	2.20	0.41
1:H:26:HIS:HD2	1:H:41:ARG:CZ	2.34	0.41
2:A:1939:ASN:ND2	2:A:1989:PRO:HG2	2.35	0.41
2:A:2158:HIS:O	2:A:2162:MET:HG2	2.20	0.41
2:A:2379:ASP:OD1	2:A:2380:ASP:N	2.52	0.41
2:A:2392:TYR:O	2:A:2396:ILE:HG12	2.19	0.41
2:A:2703:PRO:HB2	2:A:2854:LYS:CD	2.47	0.41
2:A:3763:ILE:HD11	2:A:3838:ASP:O	2.21	0.41
2:A:3805:LEU:HD11	2:A:3887:ASP:HB3	2.03	0.41
2:D:356:TYR:HE2	2:D:407:ARG:HD2	1.86	0.41
2:D:2392:TYR:O	2:D:2396:ILE:HG12	2.19	0.41
2:D:3805:LEU:HD11	2:D:3887:ASP:HB3	2.03	0.41
2:D:4177:VAL:HG11	2:D:4880:VAL:HA	2.02	0.41
2:D:4265:LYS:O	2:D:4268:MET:HB3	2.20	0.41
2:D:4724:TRP:O	2:D:4728:MET:HG2	2.21	0.41
2:B:996:VAL:HG22	2:B:1054:VAL:HG21	2.02	0.41
2:B:1053:ALA:O	2:B:1057:LEU:HD23	2.21	0.41
2:B:2179:LEU:HD23	2:B:2187:ILE:HG21	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2434:GLY:O	2:B:2438:ILE:HG13	2.20	0.41
2:B:2577:CYS:HB2	2:B:2609:LEU:HD11	2.02	0.41
2:B:2998:ASN:O	2:B:3002:GLU:HG3	2.19	0.41
2:B:3036:LEU:HD12	2:B:3036:LEU:HA	1.92	0.41
2:B:3763:ILE:HD11	2:B:3838:ASP:O	2.20	0.41
2:C:2004:MET:HE2	2:C:2004:MET:HA	2.02	0.41
2:C:2581:ARG:HG3	2:C:2630:PHE:HD1	1.85	0.41
2:C:2693:SER:HA	2:C:2702:ASN:O	2.20	0.41
2:C:2776:LYS:O	2:C:2780:LYS:HG2	2.20	0.41
2:C:2998:ASN:ND2	2:C:3048:THR:OG1	2.53	0.41
2:C:3790:PHE:HE1	2:C:3858:LEU:HD23	1.85	0.41
2:C:4897:TYR:CD2	2:C:4960:LYS:HE2	2.55	0.41
2:A:1172:THR:HB	2:A:1190:LEU:HD22	2.03	0.41
2:A:1605:LYS:HA	2:A:1605:LYS:HD3	1.75	0.41
2:A:1614:ARG:NH1	2:A:1614:ARG:HB3	2.36	0.41
2:A:2581:ARG:HG3	2:A:2630:PHE:HD1	1.85	0.41
2:A:2824:ARG:CZ	2:B:1502:ASN:HA	2.51	0.41
2:A:2988:ARG:N	2:A:2989:PRO:HD3	2.36	0.41
2:A:4265:LYS:O	2:A:4268:MET:HB3	2.20	0.41
2:A:4587:ILE:CD1	2:A:4722:LEU:HB3	2.50	0.41
1:E:27:TYR:N	1:E:40:SER:OG	2.51	0.41
2:D:181:LEU:N	2:D:212:TRP:O	2.48	0.41
2:D:1102:TYR:N	2:D:1237:GLU:O	2.53	0.41
2:D:2158:HIS:O	2:D:2162:MET:HG2	2.20	0.41
2:D:2325:ILE:HA	2:D:2325:ILE:HD12	1.82	0.41
2:D:3205:CYS:HB2	2:D:3208:ILE:HG12	2.02	0.41
2:D:4897:TYR:CD2	2:D:4960:LYS:HE2	2.54	0.41
2:B:601:LEU:HD13	2:B:610:VAL:HB	2.02	0.41
2:B:1614:ARG:HB3	2:B:1614:ARG:NH1	2.36	0.41
2:B:1645:THR:HG22	2:B:1695:PRO:HG3	2.02	0.41
2:B:2779:LEU:N	2:B:2779:LEU:HD23	2.35	0.41
2:B:2788:ARG:HB3	2:B:2790:GLU:OE2	2.21	0.41
2:B:3217:GLU:O	2:B:3220:GLU:HG3	2.20	0.41
2:B:4690:LYS:HG3	2:B:4692:SER:H	1.86	0.41
2:C:1053:ALA:O	2:C:1057:LEU:HD23	2.21	0.41
2:C:1102:TYR:N	2:C:1237:GLU:O	2.53	0.41
2:C:1438:PRO:HB2	2:C:1491:GLY:HA2	2.01	0.41
2:C:2415:GLU:HA	2:C:2418:ARG:NH1	2.35	0.41
2:C:2788:ARG:HB2	2:C:2904:SER:HB3	2.03	0.41
2:C:2988:ARG:N	2:C:2989:PRO:HD3	2.36	0.41
2:C:3641:ILE:HD13	2:C:3641:ILE:HA	1.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:14:LEU:HD11	2:A:214:VAL:HG21	2.03	0.41
2:A:941:LYS:HB2	2:A:941:LYS:HE2	1.75	0.41
2:A:2415:GLU:HA	2:A:2418:ARG:NH1	2.35	0.41
2:A:4177:VAL:HG11	2:A:4880:VAL:HA	2.02	0.41
2:A:4190:VAL:O	2:A:4194:GLU:HG3	2.20	0.41
1:E:26:HIS:HD2	1:E:41:ARG:CZ	2.34	0.41
1:G:91:VAL:O	2:C:640:ARG:NH2	2.53	0.41
2:D:255:GLU:H	2:D:255:GLU:CD	2.26	0.41
2:D:1076:GLU:O	2:D:1076:GLU:HG2	2.20	0.41
2:D:2179:LEU:HA	2:D:2187:ILE:HD12	2.01	0.41
2:D:2693:SER:HA	2:D:2702:ASN:O	2.20	0.41
2:D:3217:GLU:O	2:D:3220:GLU:HG3	2.20	0.41
2:D:4139:MET:HB3	2:D:4951:PHE:HA	2.02	0.41
2:B:904:TYR:HB2	2:B:919:VAL:HG22	2.01	0.41
2:B:1019:GLY:HA2	2:B:1028:ARG:HH21	1.86	0.41
2:B:2431:ASP:O	2:B:2435:VAL:HG23	2.21	0.41
2:B:3089:GLY:O	2:B:3093:ILE:HG12	2.21	0.41
2:B:3148:VAL:HG12	2:B:3152:ARG:HH12	1.84	0.41
2:B:4587:ILE:CD1	2:B:4722:LEU:HB3	2.51	0.41
2:C:56:LYS:HB2	2:C:57:ASN:OD1	2.20	0.41
2:C:1088:PHE:HB2	2:C:1205:CYS:SG	2.61	0.41
2:C:1645:THR:HG22	2:C:1695:PRO:HG3	2.02	0.41
2:C:2158:HIS:O	2:C:2162:MET:HG2	2.20	0.41
2:C:2434:GLY:O	2:C:2438:ILE:HG13	2.20	0.41
2:C:2577:CYS:HB2	2:C:2609:LEU:HD11	2.02	0.41
2:C:2788:ARG:HB3	2:C:2790:GLU:OE2	2.20	0.41
2:C:3112:ILE:HD12	2:C:3117:PHE:HB2	2.02	0.41
2:C:3951:PHE:CD2	2:C:3975:GLN:HG3	2.55	0.41
2:C:4291:PHE:CZ	2:C:4295:LEU:HD11	2.55	0.41
2:C:4690:LYS:HG3	2:C:4692:SER:H	1.85	0.41
2:A:68:VAL:HG21	2:A:122:ARG:NH2	2.35	0.41
2:A:2496:LEU:HD23	2:A:2520:LEU:HD13	2.02	0.41
2:A:2501:SER:HB2	2:A:2867:ASN:HB2	2.03	0.41
2:A:2545:ILE:O	2:A:2549:LEU:HG	2.21	0.41
2:A:2670:SER:HB2	2:A:2973:GLN:HG2	2.01	0.41
1:G:26:HIS:HD2	1:G:41:ARG:CZ	2.34	0.41
2:D:544:ASN:ND2	2:D:547:ASN:OD1	2.54	0.41
2:D:1019:GLY:HA2	2:D:1028:ARG:HH21	1.86	0.41
2:D:2627:TRP:HB3	2:D:2630:PHE:HD2	1.85	0.41
2:D:2788:ARG:HB2	2:D:2904:SER:HB3	2.03	0.41
2:D:3036:LEU:HD12	2:D:3036:LEU:HA	1.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:14:LEU:HD11	2:B:214:VAL:HG21	2.03	0.41
2:B:68:VAL:HG21	2:B:122:ARG:NH2	2.35	0.41
2:B:1102:TYR:N	2:B:1237:GLU:O	2.53	0.41
2:B:1948:MET:SD	2:B:1951:LEU:HD23	2.60	0.41
2:B:4724:TRP:O	2:B:4728:MET:HG2	2.21	0.41
2:B:4886:THR:O	2:B:4895:ASN:N	2.53	0.41
2:C:281:ARG:NE	2:C:284:TRP:O	2.39	0.41
2:C:681:HIS:HB3	2:C:799:LYS:HB3	2.02	0.41
2:C:1220:ASP:O	2:C:1223:THR:OG1	2.31	0.41
2:C:1907:CYS:O	2:C:1911:GLN:HG2	2.20	0.41
2:C:1948:MET:SD	2:C:1951:LEU:HD23	2.60	0.41
2:C:1979:PHE:CE1	2:C:1996:LEU:HD23	2.56	0.41
2:C:2396:ILE:HG21	2:C:2468:MET:SD	2.61	0.41
2:C:2545:ILE:O	2:C:2549:LEU:HG	2.21	0.41
2:C:2666:LEU:HB3	2:C:2667:PRO:HD3	2.01	0.41
2:C:3166:PHE:CE2	2:C:3168:VAL:HB	2.55	0.41
2:C:4914:ASN:HB3	2:C:4917:ASN:HB2	2.02	0.41
2:A:191:TYR:N	2:A:206:ALA:O	2.53	0.41
2:A:308:LEU:HD21	2:A:370:LEU:HD12	2.02	0.41
2:A:892:LEU:HA	2:A:895:MET:HG3	2.02	0.41
2:A:2179:LEU:HA	2:A:2187:ILE:HD12	2.01	0.41
2:A:2863:LYS:HB2	2:A:2863:LYS:HE2	1.24	0.41
2:A:3089:GLY:O	2:A:3093:ILE:HG12	2.21	0.41
2:A:4704:LYS:HA	2:A:4704:LYS:HD3	1.92	0.41
2:A:4724:TRP:O	2:A:4728:MET:HG2	2.21	0.41
1:E:26:HIS:CD2	1:E:41:ARG:HG2	2.56	0.41
1:G:26:HIS:CD2	1:G:41:ARG:HG2	2.56	0.41
2:D:15:ARG:NH2	2:D:110:HIS:HB3	2.35	0.41
2:D:1907:CYS:O	2:D:1911:GLN:HG2	2.20	0.41
2:D:2222:LEU:HD23	2:D:2222:LEU:HA	1.87	0.41
2:D:2496:LEU:HD23	2:D:2520:LEU:HD13	2.02	0.41
2:D:2577:CYS:HB2	2:D:2609:LEU:HD11	2.02	0.41
2:D:2788:ARG:HB3	2:D:2790:GLU:OE2	2.20	0.41
2:D:3166:PHE:CE2	2:D:3168:VAL:HB	2.55	0.41
2:D:3184:TYR:C	2:D:3192:ARG:HH21	2.28	0.41
2:D:4255:LEU:HD13	2:D:4293:THR:OG1	2.20	0.41
2:D:4488:GLN:O	2:D:4492:LEU:HG	2.20	0.41
2:D:4503:ARG:HH21	2:D:4745:ASP:CG	2.29	0.41
2:D:4690:LYS:HG3	2:D:4692:SER:H	1.86	0.41
2:D:4704:LYS:O	2:D:4707:MET:HB3	2.21	0.41
2:D:4828:GLY:HA2	2:D:4831:ILE:HG22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:4888:CYS:HB2	4:D:5002:ATP:HN61	1.85	0.41
2:B:1172:THR:HB	2:B:1190:LEU:HD22	2.03	0.41
2:B:2545:ILE:O	2:B:2549:LEU:HG	2.21	0.41
2:B:3205:CYS:HB2	2:B:3208:ILE:HG12	2.02	0.41
2:B:4255:LEU:HD13	2:B:4293:THR:OG1	2.20	0.41
2:C:996:VAL:HG22	2:C:1054:VAL:HG21	2.02	0.41
2:C:2863:LYS:HB2	2:C:2863:LYS:HE2	1.24	0.41
2:C:3089:GLY:O	2:C:3093:ILE:HG12	2.21	0.41
2:C:3805:LEU:HD11	2:C:3887:ASP:HB3	2.03	0.41
2:C:4732:GLY:HA2	2:C:4735:ASN:O	2.21	0.41
2:A:681:HIS:HB3	2:A:799:LYS:HB3	2.02	0.41
2:A:807:ARG:HA	2:A:1613:GLU:OE2	2.21	0.41
2:A:1415:ASP:OD2	2:A:1559:ARG:NH2	2.54	0.41
2:A:1979:PHE:CE1	2:A:1996:LEU:HD23	2.56	0.41
2:A:3184:TYR:C	2:A:3192:ARG:HH21	2.29	0.41
2:A:3234:VAL:HG13	2:A:3238:ILE:HB	2.03	0.41
2:A:3617:VAL:O	2:A:3621:LEU:HG	2.21	0.41
2:D:308:LEU:HD21	2:D:370:LEU:HD12	2.02	0.41
2:D:390:LYS:HD3	2:D:391:ALA:H	1.86	0.41
2:D:1102:TYR:CE1	2:D:1165:MET:HE2	2.56	0.41
2:D:1304:LEU:HD23	2:D:1304:LEU:HA	1.92	0.41
2:D:1427:TYR:HD1	2:D:1510:VAL:HG22	1.86	0.41
2:D:2501:SER:HB2	2:D:2867:ASN:HB2	2.03	0.41
2:D:2545:ILE:O	2:D:2549:LEU:HG	2.21	0.41
2:D:2739:ASN:HB2	2:D:2741:TRP:HD1	1.86	0.41
2:D:2988:ARG:N	2:D:2989:PRO:HD3	2.36	0.41
2:D:3134:LEU:HB2	2:D:3162:PHE:CE1	2.56	0.41
2:D:3237:VAL:C	2:D:3240:PRO:HD2	2.45	0.41
2:D:3763:ILE:HD11	2:D:3838:ASP:O	2.20	0.41
2:D:4291:PHE:CZ	2:D:4295:LEU:HD11	2.55	0.41
2:D:4780:LEU:HD11	2:C:4744:LEU:HG	2.02	0.41
2:B:69:LEU:HD23	2:B:121:LEU:HG	2.03	0.41
2:B:238:HIS:CG	2:B:239:GLY:N	2.88	0.41
2:B:390:LYS:HD3	2:B:391:ALA:H	1.86	0.41
2:B:681:HIS:HB3	2:B:799:LYS:HB3	2.02	0.41
2:B:1088:PHE:HB2	2:B:1205:CYS:SG	2.61	0.41
2:B:1102:TYR:CE1	2:B:1165:MET:HE2	2.56	0.41
2:B:1415:ASP:OD2	2:B:1559:ARG:NH2	2.54	0.41
2:B:1505:LEU:HD12	2:B:1505:LEU:HA	1.89	0.41
2:B:2956:TYR:HD2	2:B:2960:ILE:HG12	1.86	0.41
2:B:2988:ARG:N	2:B:2989:PRO:HD3	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3208:ILE:HG13	2:B:3208:ILE:O	2.21	0.41
2:B:3277:LEU:HD12	2:B:3310:VAL:HG21	2.03	0.41
2:B:3960:GLN:HE21	2:B:4065:PHE:HE1	1.68	0.41
2:B:4732:GLY:HA2	2:B:4735:ASN:O	2.21	0.41
2:B:4828:GLY:HA2	2:B:4831:ILE:HG22	2.02	0.41
2:C:15:ARG:NH2	2:C:110:HIS:HB3	2.35	0.41
2:C:191:TYR:N	2:C:206:ALA:O	2.54	0.41
2:C:307:SER:HB2	2:C:327:THR:HG22	2.03	0.41
2:C:719:GLY:HA3	2:C:733:TRP:HB3	2.03	0.41
2:C:1172:THR:HB	2:C:1190:LEU:HD22	2.03	0.41
2:C:1415:ASP:OD2	2:C:1559:ARG:NH2	2.54	0.41
2:C:1427:TYR:HD1	2:C:1510:VAL:HG22	1.86	0.41
2:C:2627:TRP:HB3	2:C:2630:PHE:HD2	1.85	0.41
2:C:3237:VAL:C	2:C:3240:PRO:HD2	2.45	0.41
2:C:3277:LEU:HD12	2:C:3310:VAL:HG21	2.03	0.41
2:C:4265:LYS:O	2:C:4268:MET:HB3	2.20	0.41
2:C:4853:PHE:HD1	2:C:4857:ILE:HD12	1.86	0.41
2:A:356:TYR:HE2	2:A:407:ARG:HD2	1.86	0.41
2:A:2004:MET:HE2	2:A:2004:MET:HA	2.02	0.41
2:A:2331:PHE:HB3	2:A:2335:LEU:HB2	2.03	0.41
2:A:2939:TYR:O	2:A:2956:TYR:OH	2.32	0.41
2:A:4026:LEU:HD13	2:A:4055:HIS:HB2	2.03	0.41
2:A:4704:LYS:O	2:A:4707:MET:HB3	2.21	0.41
1:F:26:HIS:CD2	1:F:41:ARG:HG2	2.56	0.41
2:D:14:LEU:HD11	2:D:214:VAL:HG21	2.03	0.41
2:D:962:LYS:O	2:D:981:MET:HA	2.21	0.41
2:D:1415:ASP:OD2	2:D:1559:ARG:NH2	2.54	0.41
2:D:2863:LYS:HB2	2:D:2863:LYS:HE2	1.24	0.41
2:D:2998:ASN:ND2	2:D:3048:THR:OG1	2.52	0.41
2:B:307:SER:HB2	2:B:327:THR:HG22	2.03	0.41
2:B:544:ASN:ND2	2:B:547:ASN:OD1	2.54	0.41
2:B:719:GLY:HA3	2:B:733:TRP:HB3	2.03	0.41
2:B:892:LEU:HA	2:B:895:MET:HG3	2.02	0.41
2:B:1086:ARG:NH2	2:B:1254:ARG:HG3	2.35	0.41
2:B:2841:ALA:HB2	2:B:2893:LEU:HD12	2.03	0.41
2:B:4265:LYS:O	2:B:4268:MET:HB3	2.20	0.41
2:C:1019:GLY:HA2	2:C:1028:ARG:HH21	1.86	0.41
2:C:1421:MET:O	2:C:1576:LYS:NZ	2.51	0.41
2:C:2841:ALA:HB2	2:C:2893:LEU:HD12	2.03	0.41
2:C:2956:TYR:HD2	2:C:2960:ILE:HG12	1.86	0.41
2:C:4026:LEU:HD13	2:C:4055:HIS:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:4139:MET:HB3	2:C:4951:PHE:HA	2.02	0.41
2:C:4647:LYS:HB3	2:C:4647:LYS:HE3	1.54	0.41
2:C:4704:LYS:O	2:C:4707:MET:HB3	2.21	0.41
2:C:4724:TRP:O	2:C:4728:MET:HG2	2.21	0.41
2:A:78:LEU:HD12	2:A:81:MET:HE3	2.03	0.40
2:A:675:TYR:HB3	2:A:822:CYS:SG	2.62	0.40
2:A:1053:ALA:O	2:A:1057:LEU:HD23	2.21	0.40
2:A:1907:CYS:O	2:A:1911:GLN:HG2	2.20	0.40
2:A:2396:ILE:HG21	2:A:2468:MET:SD	2.61	0.40
2:A:2431:ASP:O	2:A:2435:VAL:HG23	2.21	0.40
2:A:3208:ILE:O	2:A:3208:ILE:HG13	2.21	0.40
2:A:3639:LYS:HA	2:A:4683:ARG:NH2	2.34	0.40
2:A:3960:GLN:HE21	2:A:4065:PHE:HE1	1.68	0.40
2:A:4194:GLU:CD	2:A:4608:ARG:HH22	2.29	0.40
2:A:4503:ARG:HH21	2:A:4745:ASP:CG	2.29	0.40
2:A:4732:GLY:HA2	2:A:4735:ASN:O	2.21	0.40
2:A:4764:GLY:HA2	2:A:4767:LEU:HB2	2.02	0.40
2:D:1225:LYS:HB3	2:D:1226:TYR:CD1	2.56	0.40
2:D:1421:MET:HA	2:D:1421:MET:CE	2.43	0.40
2:D:2434:GLY:O	2:D:2438:ILE:HG13	2.20	0.40
2:B:499:LEU:HD22	2:B:557:TRP:CZ3	2.56	0.40
2:B:2158:HIS:O	2:B:2162:MET:HG2	2.20	0.40
2:B:2501:SER:HB2	2:B:2867:ASN:HB2	2.03	0.40
2:B:2736:LYS:HB3	2:B:2741:TRP:CB	2.50	0.40
2:C:356:TYR:HE2	2:C:407:ARG:HD2	1.86	0.40
2:C:541:ILE:HD11	2:C:574:VAL:HG13	2.03	0.40
2:C:941:LYS:HB2	2:C:941:LYS:HE2	1.75	0.40
2:C:3763:ILE:HD11	2:C:3838:ASP:O	2.20	0.40
2:C:4503:ARG:HH21	2:C:4745:ASP:CG	2.29	0.40
1:H:67:MET:SD	1:H:102:VAL:HG23	2.61	0.40
2:A:69:LEU:HD23	2:A:121:LEU:HG	2.03	0.40
2:A:76:ARG:NH2	2:D:3891:TYR:HA	2.35	0.40
2:A:499:LEU:HD22	2:A:557:TRP:CZ3	2.56	0.40
2:A:541:ILE:HD11	2:A:574:VAL:HG13	2.03	0.40
2:A:1102:TYR:CE1	2:A:1165:MET:HE2	2.56	0.40
2:A:2466:ALA:HB2	2:A:2519:TYR:HD1	1.87	0.40
2:A:2779:LEU:HD22	2:A:2782:MET:HE3	2.04	0.40
2:A:4079:ASP:HB3	2:A:4082:GLU:CG	2.52	0.40
2:A:4914:ASN:HB3	2:A:4917:ASN:HB2	2.02	0.40
2:D:675:TYR:HB3	2:D:822:CYS:SG	2.62	0.40
2:D:681:HIS:HB3	2:D:799:LYS:HB3	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1088:PHE:HB2	2:D:1205:CYS:SG	2.61	0.40
2:D:1748:LEU:HD23	2:D:1748:LEU:HA	1.94	0.40
2:D:2062:ILE:HA	2:D:2065:THR:HG22	2.04	0.40
2:D:2331:PHE:HB3	2:D:2335:LEU:HB2	2.03	0.40
2:D:2431:ASP:O	2:D:2435:VAL:HG23	2.21	0.40
2:D:2581:ARG:HE	2:D:2584:MET:HE2	1.87	0.40
2:D:3175:LEU:HD23	2:D:3266:THR:HA	2.03	0.40
2:D:4590:TYR:OH	2:D:4718:SER:HB2	2.22	0.40
2:D:4732:GLY:HA2	2:D:4735:ASN:O	2.21	0.40
2:B:37:LEU:HD22	2:B:192:LEU:HD21	2.04	0.40
2:B:191:TYR:N	2:B:206:ALA:O	2.53	0.40
2:B:1979:PHE:CE1	2:B:1996:LEU:HD23	2.56	0.40
2:B:3743:THR:HB	2:B:3758:THR:HG21	2.04	0.40
2:B:4819:VAL:HG22	2:B:4830:GLU:OE2	2.22	0.40
2:C:545:ARG:NH1	2:C:582:SER:HA	2.36	0.40
2:C:675:TYR:HB3	2:C:822:CYS:SG	2.62	0.40
2:C:2703:PRO:HB2	2:C:2854:LYS:CD	2.47	0.40
2:C:2739:ASN:HB2	2:C:2741:TRP:HD1	1.86	0.40
2:C:3205:CYS:HB2	2:C:3208:ILE:HG12	2.02	0.40
2:C:4888:CYS:HB2	4:C:5002:ATP:HN61	1.86	0.40
2:A:14:LEU:HD23	2:A:14:LEU:HA	1.82	0.40
2:A:544:ASN:ND2	2:A:547:ASN:OD1	2.54	0.40
2:A:1047:LYS:HD3	2:A:1047:LYS:HA	1.96	0.40
2:A:3641:ILE:HD13	2:A:3641:ILE:HA	1.88	0.40
2:A:4888:CYS:HB2	4:A:5002:ATP:HN61	1.86	0.40
2:D:191:TYR:N	2:D:206:ALA:O	2.53	0.40
2:D:475:LYS:HE3	2:D:475:LYS:HB3	1.76	0.40
2:D:719:GLY:HA3	2:D:733:TRP:HB3	2.03	0.40
2:D:1979:PHE:CE1	2:D:1996:LEU:HD23	2.56	0.40
2:D:2581:ARG:HG3	2:D:2630:PHE:HD1	1.85	0.40
2:D:2845:ALA:HB1	2:D:2885:ASP:HB3	2.04	0.40
2:D:2939:TYR:O	2:D:2956:TYR:OH	2.32	0.40
2:D:3231:MET:CE	2:D:3234:VAL:H	2.30	0.40
2:D:3639:LYS:HA	2:D:4683:ARG:NH2	2.34	0.40
2:D:4045:LYS:NZ	2:D:4071:GLU:O	2.40	0.40
2:B:919:VAL:HG12	2:B:920:GLU:N	2.37	0.40
2:B:1425:THR:HG22	2:B:1563:VAL:HG13	2.02	0.40
2:B:1495:SER:N	2:B:1496:PRO:HD2	2.37	0.40
2:B:1605:LYS:HA	2:B:1605:LYS:HD3	1.75	0.40
2:B:1682:GLU:OE2	2:B:1783:PRO:HG2	2.22	0.40
2:B:2627:TRP:HB3	2:B:2630:PHE:HD2	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2852:TRP:CH2	2:B:2856:LYS:HG3	2.57	0.40
2:B:3112:ILE:HD12	2:B:3117:PHE:HB2	2.02	0.40
2:B:3759:LEU:HD23	2:B:3759:LEU:HA	1.98	0.40
2:B:4026:LEU:HD13	2:B:4055:HIS:HB2	2.03	0.40
2:B:4079:ASP:HB3	2:B:4082:GLU:CG	2.52	0.40
2:B:4488:GLN:O	2:B:4492:LEU:HG	2.20	0.40
2:B:4914:ASN:HB3	2:B:4917:ASN:HB2	2.02	0.40
2:C:261:HIS:HD2	2:C:263:GLU:HG3	1.85	0.40
2:C:1495:SER:N	2:C:1496:PRO:HD2	2.37	0.40
2:C:2431:ASP:O	2:C:2435:VAL:HG23	2.21	0.40
2:C:2711:ILE:HG22	2:C:2780:LYS:HE3	2.04	0.40
2:C:3987:GLU:OE2	2:C:4934:THR:HB	2.21	0.40
1:H:9:SER:HB2	1:H:72:ARG:HB3	2.03	0.40
2:A:390:LYS:HD3	2:A:391:ALA:H	1.86	0.40
2:A:541:ILE:CD1	2:A:574:VAL:HG13	2.52	0.40
2:A:1225:LYS:HB3	2:A:1226:TYR:CD1	2.56	0.40
2:A:1495:SER:N	2:A:1496:PRO:HD2	2.37	0.40
2:A:1645:THR:HG22	2:A:1695:PRO:HG3	2.02	0.40
2:A:2434:GLY:O	2:A:2438:ILE:HG13	2.20	0.40
2:A:2741:TRP:CE3	2:A:2754:GLN:HB2	2.56	0.40
2:A:4022:LYS:HB2	2:A:4022:LYS:HE2	1.95	0.40
2:A:4764:GLY:HA2	2:A:4767:LEU:HD12	2.04	0.40
2:D:541:ILE:CD1	2:D:574:VAL:HG13	2.52	0.40
2:D:937:LEU:HD22	2:D:937:LEU:HA	1.96	0.40
2:D:1421:MET:O	2:D:1576:LYS:NZ	2.51	0.40
2:D:1495:SER:N	2:D:1496:PRO:HD2	2.37	0.40
2:D:2466:ALA:HB2	2:D:2519:TYR:HD1	1.87	0.40
2:D:2716:LYS:NZ	2:D:2789:ILE:HG23	2.36	0.40
2:D:3319:PHE:O	2:D:3323:MET:N	2.40	0.40
2:D:3960:GLN:HE21	2:D:4065:PHE:HE1	1.68	0.40
2:D:4026:LEU:HD13	2:D:4055:HIS:HB2	2.03	0.40
2:D:4182:GLU:OE1	2:C:4899:ASP:CG	2.65	0.40
2:B:165:ALA:HB2	2:B:182:ILE:HG23	2.04	0.40
2:B:807:ARG:HA	2:B:1613:GLU:OE2	2.21	0.40
2:B:1031:ARG:CG	2:B:1038:LEU:HD11	2.52	0.40
2:B:2062:ILE:HA	2:B:2065:THR:HG22	2.04	0.40
2:B:2703:PRO:HB2	2:B:2854:LYS:CD	2.47	0.40
2:B:2904:SER:OG	2:B:2905:ARG:N	2.54	0.40
2:B:3297:LYS:O	2:B:3301:VAL:HG23	2.22	0.40
2:B:3987:GLU:OE2	2:B:4934:THR:HB	2.21	0.40
2:B:4704:LYS:O	2:B:4707:MET:HB3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:390:LYS:HD3	2:C:391:ALA:H	1.86	0.40
2:C:499:LEU:HD22	2:C:557:TRP:CZ3	2.57	0.40
2:C:1425:THR:HG22	2:C:1563:VAL:HG13	2.02	0.40
2:C:1682:GLU:OE2	2:C:1783:PRO:HG2	2.22	0.40
2:C:1913:LEU:HD23	2:C:1913:LEU:HA	1.93	0.40
2:C:2501:SER:HB2	2:C:2867:ASN:HB2	2.03	0.40
2:C:3134:LEU:HB2	2:C:3162:PHE:CE1	2.56	0.40
2:C:3184:TYR:C	2:C:3192:ARG:HH21	2.28	0.40
2:C:3319:PHE:O	2:C:3323:MET:N	2.40	0.40
2:C:3743:THR:HB	2:C:3758:THR:HG21	2.04	0.40
2:C:4580:THR:HG1	2:C:4733:HIS:CD2	2.30	0.40
2:A:962:LYS:O	2:A:981:MET:HA	2.21	0.40
2:A:1019:GLY:HA2	2:A:1028:ARG:HH21	1.86	0.40
2:A:1425:THR:HG22	2:A:1563:VAL:HG13	2.02	0.40
2:A:2222:LEU:HD23	2:A:2222:LEU:HA	1.87	0.40
2:A:2325:ILE:HA	2:A:2325:ILE:HD12	1.82	0.40
2:A:2627:TRP:HB3	2:A:2630:PHE:HD2	1.85	0.40
2:A:2788:ARG:HB3	2:A:2790:GLU:OE2	2.20	0.40
2:A:2841:ALA:HB2	2:A:2893:LEU:HD12	2.03	0.40
2:A:2898:ILE:HG23	2:B:1498:GLN:HE21	1.86	0.40
2:A:4488:GLN:O	2:A:4492:LEU:HG	2.20	0.40
2:A:4690:LYS:HG3	2:A:4692:SER:H	1.86	0.40
2:A:4853:PHE:HD1	2:A:4857:ILE:HD12	1.86	0.40
2:D:261:HIS:HD2	2:D:263:GLU:HG3	1.85	0.40
2:D:290:ARG:NH2	2:D:350:GLY:HA3	2.27	0.40
2:D:1425:THR:HG22	2:D:1563:VAL:HG13	2.02	0.40
2:D:1614:ARG:HB3	2:D:1614:ARG:CZ	2.52	0.40
2:D:1645:THR:HG22	2:D:1695:PRO:HG3	2.02	0.40
2:D:2396:ILE:HG21	2:D:2468:MET:SD	2.61	0.40
2:D:2741:TRP:CE3	2:D:2754:GLN:HB2	2.56	0.40
2:D:4030:ASP:O	2:D:4033:LYS:HB2	2.22	0.40
2:D:4079:ASP:HB3	2:D:4082:GLU:CG	2.52	0.40
2:D:4194:GLU:CD	2:D:4608:ARG:HH22	2.29	0.40
2:B:14:LEU:HD23	2:B:14:LEU:HA	1.82	0.40
2:B:78:LEU:HD12	2:B:81:MET:HE3	2.03	0.40
2:B:480:ARG:HE	2:B:3678:GLU:CD	2.29	0.40
2:B:545:ARG:NH1	2:B:582:SER:HA	2.36	0.40
2:B:2004:MET:HA	2:B:2004:MET:HE2	2.02	0.40
2:B:2396:ILE:HG21	2:B:2468:MET:SD	2.61	0.40
2:B:2741:TRP:CE3	2:B:2754:GLN:HB2	2.56	0.40
2:B:3614:HIS:CD2	2:B:3615:ARG:HG2	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:4186:MET:O	2:B:4190:VAL:HG23	2.22	0.40
2:B:4597:LEU:HG	2:B:4601:LYS:HZ2	1.86	0.40
2:B:4764:GLY:HA2	2:B:4767:LEU:HD12	2.04	0.40
2:C:37:LEU:HD22	2:C:192:LEU:HD21	2.04	0.40
2:C:290:ARG:NH2	2:C:350:GLY:HA3	2.27	0.40
2:C:1102:TYR:CE1	2:C:1165:MET:HE2	2.56	0.40
2:C:1253:LYS:HB2	2:C:1253:LYS:HE2	1.68	0.40
2:C:3948:LEU:HD23	2:C:3948:LEU:HA	1.97	0.40
2:C:4644:TYR:CD1	2:C:4645:TRP:CD1	3.10	0.40
2:C:4764:GLY:HA2	2:C:4767:LEU:HD12	2.04	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	E	105/108 (97%)	103 (98%)	2 (2%)	0	100	100
1	F	105/108 (97%)	103 (98%)	2 (2%)	0	100	100
1	G	105/108 (97%)	103 (98%)	2 (2%)	0	100	100
1	H	105/108 (97%)	103 (98%)	2 (2%)	0	100	100
2	A	4198/4967 (84%)	4091 (98%)	103 (2%)	4 (0%)	48	78
2	B	4198/4967 (84%)	4092 (98%)	102 (2%)	4 (0%)	48	78
2	C	4198/4967 (84%)	4091 (98%)	103 (2%)	4 (0%)	48	78
2	D	4198/4967 (84%)	4092 (98%)	102 (2%)	4 (0%)	48	78
All	All	17212/20300 (85%)	16778 (98%)	418 (2%)	16 (0%)	49	78

All (16) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	A	1553	PHE
2	A	4641	PRO
2	A	4819	VAL
2	D	1553	PHE
2	D	4641	PRO
2	D	4819	VAL
2	B	1553	PHE
2	B	4641	PRO
2	B	4819	VAL
2	C	1553	PHE
2	C	4641	PRO
2	C	4819	VAL
2	A	1081	THR
2	D	1081	THR
2	B	1081	THR
2	C	1081	THR

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	E	88/89 (99%)	88 (100%)	0	100	100
1	F	88/89 (99%)	88 (100%)	0	100	100
1	G	88/89 (99%)	88 (100%)	0	100	100
1	H	88/89 (99%)	88 (100%)	0	100	100
2	A	3708/4358 (85%)	3615 (98%)	93 (2%)	42	61
2	B	3708/4358 (85%)	3615 (98%)	93 (2%)	42	61
2	C	3708/4358 (85%)	3615 (98%)	93 (2%)	42	61
2	D	3708/4358 (85%)	3615 (98%)	93 (2%)	42	61
All	All	15184/17788 (85%)	14812 (98%)	372 (2%)	42	61

All (372) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	A	56	LYS
2	A	81	MET
2	A	241	MET
2	A	272	ARG
2	A	349	MET
2	A	414	ARG
2	A	530	LEU
2	A	678	MET
2	A	833	LYS
2	A	935	MET
2	A	937	LEU
2	A	964	MET
2	A	981	MET
2	A	1021	GLN
2	A	1036	THR
2	A	1133	ARG
2	A	1174	MET
2	A	1212	VAL
2	A	1421	MET
2	A	1564	MET
2	A	1599	MET
2	A	1614	ARG
2	A	1724	GLU
2	A	1729	MET
2	A	1946	GLU
2	A	1948	MET
2	A	2132	VAL
2	A	2172	MET
2	A	2192	MET
2	A	2212	LYS
2	A	2214	MET
2	A	2327	ARG
2	A	2347	MET
2	A	2384	MET
2	A	2442	MET
2	A	2456	MET
2	A	2512	MET
2	A	2681	MET
2	A	2688	MET
2	A	2695	MET
2	A	2715	GLU
2	A	2717	LEU
2	A	2752	LYS

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Mol	Chain	Res	Type
2	A	2779	LEU
2	A	2783	LEU
2	A	2798	MET
2	A	2800	LEU
2	A	2831	VAL
2	A	2835	ARG
2	A	2843	MET
2	A	2844	MET
2	A	2848	TYR
2	A	2858	MET
2	A	2863	LYS
2	A	2950	LYS
2	A	3019	ILE
2	A	3046	MET
2	A	3072	MET
2	A	3079	GLN
2	A	3104	MET
2	A	3152	ARG
2	A	3231	MET
2	A	3235	MET
2	A	3241	MET
2	A	3246	MET
2	A	3272	HIS
2	A	3273	MET
2	A	3311	LYS
2	A	3323	MET
2	A	3328	LYS
2	A	3715	GLU
2	A	3719	MET
2	A	3772	THR
2	A	3784	LYS
2	A	3819	MET
2	A	3866	THR
2	A	3981	MET
2	A	4002	MET
2	A	4052	MET
2	A	4242	ARG
2	A	4258	MET
2	A	4268	MET
2	A	4292	MET
2	A	4568	MET
2	A	4647	LYS

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Mol	Chain	Res	Type
2	A	4726	MET
2	A	4728	MET
2	A	4743	LEU
2	A	4804	MET
2	A	4814	MET
2	A	4925	LEU
2	A	4943	MET
2	A	4945	GLN
2	D	56	LYS
2	D	81	MET
2	D	241	MET
2	D	272	ARG
2	D	349	MET
2	D	414	ARG
2	D	530	LEU
2	D	678	MET
2	D	833	LYS
2	D	935	MET
2	D	937	LEU
2	D	964	MET
2	D	981	MET
2	D	1021	GLN
2	D	1036	THR
2	D	1133	ARG
2	D	1174	MET
2	D	1212	VAL
2	D	1421	MET
2	D	1564	MET
2	D	1599	MET
2	D	1614	ARG
2	D	1724	GLU
2	D	1729	MET
2	D	1946	GLU
2	D	1948	MET
2	D	2132	VAL
2	D	2172	MET
2	D	2192	MET
2	D	2212	LYS
2	D	2214	MET
2	D	2327	ARG
2	D	2347	MET
2	D	2384	MET

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Mol	Chain	Res	Type
2	D	2442	MET
2	D	2456	MET
2	D	2512	MET
2	D	2681	MET
2	D	2688	MET
2	D	2695	MET
2	D	2715	GLU
2	D	2717	LEU
2	D	2752	LYS
2	D	2779	LEU
2	D	2783	LEU
2	D	2798	MET
2	D	2800	LEU
2	D	2831	VAL
2	D	2835	ARG
2	D	2843	MET
2	D	2844	MET
2	D	2848	TYR
2	D	2858	MET
2	D	2863	LYS
2	D	2950	LYS
2	D	3019	ILE
2	D	3046	MET
2	D	3072	MET
2	D	3079	GLN
2	D	3104	MET
2	D	3152	ARG
2	D	3231	MET
2	D	3235	MET
2	D	3241	MET
2	D	3246	MET
2	D	3272	HIS
2	D	3273	MET
2	D	3311	LYS
2	D	3323	MET
2	D	3328	LYS
2	D	3715	GLU
2	D	3719	MET
2	D	3772	THR
2	D	3784	LYS
2	D	3819	MET
2	D	3866	THR

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Mol	Chain	Res	Type
2	D	3981	MET
2	D	4002	MET
2	D	4052	MET
2	D	4242	ARG
2	D	4258	MET
2	D	4268	MET
2	D	4292	MET
2	D	4568	MET
2	D	4647	LYS
2	D	4726	MET
2	D	4728	MET
2	D	4743	LEU
2	D	4804	MET
2	D	4814	MET
2	D	4925	LEU
2	D	4943	MET
2	D	4945	GLN
2	B	56	LYS
2	B	81	MET
2	B	241	MET
2	B	272	ARG
2	B	349	MET
2	B	414	ARG
2	B	530	LEU
2	B	678	MET
2	B	833	LYS
2	B	935	MET
2	B	937	LEU
2	B	964	MET
2	B	981	MET
2	B	1021	GLN
2	B	1036	THR
2	B	1133	ARG
2	B	1174	MET
2	B	1212	VAL
2	B	1421	MET
2	B	1564	MET
2	B	1599	MET
2	B	1614	ARG
2	B	1724	GLU
2	B	1729	MET
2	B	1946	GLU

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Mol	Chain	Res	Type
2	B	1948	MET
2	B	2132	VAL
2	B	2172	MET
2	B	2192	MET
2	B	2212	LYS
2	B	2214	MET
2	B	2327	ARG
2	B	2347	MET
2	B	2384	MET
2	B	2442	MET
2	B	2456	MET
2	B	2512	MET
2	B	2681	MET
2	B	2688	MET
2	B	2695	MET
2	B	2715	GLU
2	B	2717	LEU
2	B	2752	LYS
2	B	2779	LEU
2	B	2783	LEU
2	B	2798	MET
2	B	2800	LEU
2	B	2831	VAL
2	B	2835	ARG
2	B	2843	MET
2	B	2844	MET
2	B	2848	TYR
2	B	2858	MET
2	B	2863	LYS
2	B	2950	LYS
2	B	3019	ILE
2	B	3046	MET
2	B	3072	MET
2	B	3079	GLN
2	B	3104	MET
2	B	3152	ARG
2	B	3231	MET
2	B	3235	MET
2	B	3241	MET
2	B	3246	MET
2	B	3272	HIS
2	B	3273	MET

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Mol	Chain	Res	Type
2	B	3311	LYS
2	B	3323	MET
2	B	3328	LYS
2	B	3715	GLU
2	B	3719	MET
2	B	3772	THR
2	B	3784	LYS
2	B	3819	MET
2	B	3866	THR
2	B	3981	MET
2	B	4002	MET
2	B	4052	MET
2	B	4242	ARG
2	B	4258	MET
2	B	4268	MET
2	B	4292	MET
2	B	4568	MET
2	B	4647	LYS
2	B	4726	MET
2	B	4728	MET
2	B	4743	LEU
2	B	4804	MET
2	B	4814	MET
2	B	4925	LEU
2	B	4943	MET
2	B	4945	GLN
2	C	56	LYS
2	C	81	MET
2	C	241	MET
2	C	272	ARG
2	C	349	MET
2	C	414	ARG
2	C	530	LEU
2	C	678	MET
2	C	833	LYS
2	C	935	MET
2	C	937	LEU
2	C	964	MET
2	C	981	MET
2	C	1021	GLN
2	C	1036	THR
2	C	1133	ARG

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Mol	Chain	Res	Type
2	C	1174	MET
2	C	1212	VAL
2	C	1421	MET
2	C	1564	MET
2	C	1599	MET
2	C	1614	ARG
2	C	1724	GLU
2	C	1729	MET
2	C	1946	GLU
2	C	1948	MET
2	C	2132	VAL
2	C	2172	MET
2	C	2192	MET
2	C	2212	LYS
2	C	2214	MET
2	C	2327	ARG
2	C	2347	MET
2	C	2384	MET
2	C	2442	MET
2	C	2456	MET
2	C	2512	MET
2	C	2681	MET
2	C	2688	MET
2	C	2695	MET
2	C	2715	GLU
2	C	2717	LEU
2	C	2752	LYS
2	C	2779	LEU
2	C	2783	LEU
2	C	2798	MET
2	C	2800	LEU
2	C	2831	VAL
2	C	2835	ARG
2	C	2843	MET
2	C	2844	MET
2	C	2848	TYR
2	C	2858	MET
2	C	2863	LYS
2	C	2950	LYS
2	C	3019	ILE
2	C	3046	MET
2	C	3072	MET

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Mol	Chain	Res	Type
2	C	3079	GLN
2	C	3104	MET
2	C	3152	ARG
2	C	3231	MET
2	C	3235	MET
2	C	3241	MET
2	C	3246	MET
2	C	3272	HIS
2	C	3273	MET
2	C	3311	LYS
2	C	3323	MET
2	C	3328	LYS
2	C	3715	GLU
2	C	3719	MET
2	C	3772	THR
2	C	3784	LYS
2	C	3819	MET
2	C	3866	THR
2	C	3981	MET
2	C	4002	MET
2	C	4052	MET
2	C	4242	ARG
2	C	4258	MET
2	C	4268	MET
2	C	4292	MET
2	C	4568	MET
2	C	4647	LYS
2	C	4726	MET
2	C	4728	MET
2	C	4743	LEU
2	C	4804	MET
2	C	4814	MET
2	C	4925	LEU
2	C	4943	MET
2	C	4945	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (161) such sidechains are listed below:

Mol	Chain	Res	Type
1	H	26	HIS
1	H	95	ASN
2	A	79	GLN

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Mol	Chain	Res	Type
2	A	398	HIS
2	A	487	ASN
2	A	544	ASN
2	A	650	ASN
2	A	877	HIS
2	A	888	ASN
2	A	1146	HIS
2	A	1147	GLN
2	A	1260	GLN
2	A	1835	HIS
2	A	2059	GLN
2	A	2118	ASN
2	A	2386	ASN
2	A	2659	GLN
2	A	2739	ASN
2	A	2867	ASN
2	A	2978	HIS
2	A	3031	ASN
2	A	3079	GLN
2	A	3095	ASN
2	A	3111	HIS
2	A	3115	HIS
2	A	3269	ASN
2	A	3308	ASN
2	A	3622	GLN
2	A	3722	GLN
2	A	3770	ASN
2	A	3774	GLN
2	A	3949	HIS
2	A	3953	HIS
2	A	3975	GLN
2	A	3992	ASN
2	A	4171	GLN
2	A	4642	ASN
2	A	4863	GLN
2	A	4945	GLN
1	E	26	HIS
1	E	71	GLN
1	E	95	ASN
1	F	26	HIS
1	F	66	GLN
1	F	71	GLN

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Mol	Chain	Res	Type
1	F	95	ASN
1	G	26	HIS
1	G	71	GLN
1	G	95	ASN
2	D	79	GLN
2	D	398	HIS
2	D	487	ASN
2	D	544	ASN
2	D	650	ASN
2	D	877	HIS
2	D	1146	HIS
2	D	1147	GLN
2	D	1260	GLN
2	D	1835	HIS
2	D	2059	GLN
2	D	2118	ASN
2	D	2659	GLN
2	D	2739	ASN
2	D	2978	HIS
2	D	3031	ASN
2	D	3079	GLN
2	D	3095	ASN
2	D	3111	HIS
2	D	3115	HIS
2	D	3269	ASN
2	D	3308	ASN
2	D	3622	GLN
2	D	3722	GLN
2	D	3770	ASN
2	D	3774	GLN
2	D	3869	ASN
2	D	3949	HIS
2	D	3953	HIS
2	D	3960	GLN
2	D	3975	GLN
2	D	3992	ASN
2	D	4171	GLN
2	D	4642	ASN
2	D	4945	GLN
2	B	79	GLN
2	B	398	HIS
2	B	487	ASN

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Mol	Chain	Res	Type
2	B	544	ASN
2	B	650	ASN
2	B	877	HIS
2	B	1146	HIS
2	B	1147	GLN
2	B	1169	ASN
2	B	1260	GLN
2	B	1636	ASN
2	B	1835	HIS
2	B	2118	ASN
2	B	2659	GLN
2	B	2739	ASN
2	B	2867	ASN
2	B	2978	HIS
2	B	3031	ASN
2	B	3063	ASN
2	B	3079	GLN
2	B	3095	ASN
2	B	3111	HIS
2	B	3115	HIS
2	B	3269	ASN
2	B	3308	ASN
2	B	3622	GLN
2	B	3722	GLN
2	B	3770	ASN
2	B	3774	GLN
2	B	3869	ASN
2	B	3949	HIS
2	B	3953	HIS
2	B	3975	GLN
2	B	3992	ASN
2	B	4171	GLN
2	B	4642	ASN
2	B	4863	GLN
2	B	4945	GLN
2	C	79	GLN
2	C	398	HIS
2	C	487	ASN
2	C	544	ASN
2	C	650	ASN
2	C	877	HIS
2	C	1146	HIS

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Mol	Chain	Res	Type
2	C	1147	GLN
2	C	1260	GLN
2	C	1636	ASN
2	C	1835	HIS
2	C	1970	GLN
2	C	1974	ASN
2	C	2059	GLN
2	C	2118	ASN
2	C	2386	ASN
2	C	2659	GLN
2	C	2739	ASN
2	C	2978	HIS
2	C	3063	ASN
2	C	3079	GLN
2	C	3095	ASN
2	C	3111	HIS
2	C	3115	HIS
2	C	3269	ASN
2	C	3308	ASN
2	C	3622	GLN
2	C	3722	GLN
2	C	3770	ASN
2	C	3774	GLN
2	C	3869	ASN
2	C	3949	HIS
2	C	3953	HIS
2	C	3960	GLN
2	C	3975	GLN
2	C	3992	ASN
2	C	4171	GLN
2	C	4642	ASN
2	C	4945	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 20 ligands modelled in this entry, 8 are monoatomic - leaving 12 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
6	XAN	C	5004	-	12,12,12	0.56	0	14,17,17	0.92	1 (7%)
6	XAN	B	5004	-	12,12,12	0.58	0	14,17,17	0.91	1 (7%)
4	ATP	C	5005	-	32,33,33	0.57	0	48,52,52	0.53	0
4	ATP	C	5002	-	32,33,33	0.26	0	48,52,52	0.28	0
6	XAN	A	5004	-	12,12,12	0.57	0	14,17,17	0.92	1 (7%)
4	ATP	A	5005	-	32,33,33	0.55	0	48,52,52	0.53	0
4	ATP	D	5005	-	32,33,33	0.55	0	48,52,52	0.53	0
6	XAN	D	5004	-	12,12,12	0.56	0	14,17,17	0.91	1 (7%)
4	ATP	D	5002	-	32,33,33	0.26	0	48,52,52	0.28	0
4	ATP	B	5002	-	32,33,33	0.27	0	48,52,52	0.28	0
4	ATP	A	5002	-	32,33,33	0.26	0	48,52,52	0.28	0
4	ATP	B	5005	-	32,33,33	0.55	0	48,52,52	0.53	0

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
6	XAN	C	5004	-	-	-	0/2/2/2
6	XAN	B	5004	-	-	-	0/2/2/2
4	ATP	C	5005	-	-	9/22/38/38	0/3/3/3
4	ATP	C	5002	-	-	9/22/38/38	0/3/3/3
6	XAN	A	5004	-	-	-	0/2/2/2
4	ATP	A	5005	-	-	9/22/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	ATP	D	5005	-	-	9/22/38/38	0/3/3/3
6	XAN	D	5004	-	-	-	0/2/2/2
4	ATP	D	5002	-	-	9/22/38/38	0/3/3/3
4	ATP	B	5002	-	-	9/22/38/38	0/3/3/3
4	ATP	A	5002	-	-	9/22/38/38	0/3/3/3
4	ATP	B	5005	-	-	9/22/38/38	0/3/3/3

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	A	5004	XAN	N9-C4-N3	2.17	132.96	128.34
6	B	5004	XAN	N9-C4-N3	2.16	132.95	128.34
6	C	5004	XAN	N9-C4-N3	2.15	132.93	128.34
6	D	5004	XAN	N9-C4-N3	2.14	132.92	128.34

There are no chirality outliers.

All (72) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	5005	ATP	PB-O3B-PG-O2G
4	A	5005	ATP	C5'-O5'-PA-O1A
4	A	5005	ATP	C5'-O5'-PA-O2A
4	A	5005	ATP	C5'-O5'-PA-O3A
4	D	5005	ATP	PB-O3B-PG-O2G
4	D	5005	ATP	C5'-O5'-PA-O1A
4	D	5005	ATP	C5'-O5'-PA-O2A
4	D	5005	ATP	C5'-O5'-PA-O3A
4	B	5005	ATP	PB-O3B-PG-O2G
4	B	5005	ATP	C5'-O5'-PA-O1A
4	B	5005	ATP	C5'-O5'-PA-O2A
4	B	5005	ATP	C5'-O5'-PA-O3A
4	C	5005	ATP	PB-O3B-PG-O2G
4	C	5005	ATP	C5'-O5'-PA-O1A
4	C	5005	ATP	C5'-O5'-PA-O2A
4	C	5005	ATP	C5'-O5'-PA-O3A
4	A	5005	ATP	O4'-C4'-C5'-O5'
4	A	5005	ATP	C3'-C4'-C5'-O5'
4	D	5005	ATP	O4'-C4'-C5'-O5'
4	D	5005	ATP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
4	B	5005	ATP	O4'-C4'-C5'-O5'
4	B	5005	ATP	C3'-C4'-C5'-O5'
4	C	5005	ATP	O4'-C4'-C5'-O5'
4	C	5005	ATP	C3'-C4'-C5'-O5'
4	A	5002	ATP	C3'-C4'-C5'-O5'
4	D	5002	ATP	C3'-C4'-C5'-O5'
4	B	5002	ATP	C3'-C4'-C5'-O5'
4	C	5002	ATP	C3'-C4'-C5'-O5'
4	A	5002	ATP	O4'-C4'-C5'-O5'
4	D	5002	ATP	O4'-C4'-C5'-O5'
4	B	5002	ATP	O4'-C4'-C5'-O5'
4	C	5002	ATP	O4'-C4'-C5'-O5'
4	A	5002	ATP	C5'-O5'-PA-O1A
4	A	5002	ATP	C5'-O5'-PA-O2A
4	A	5002	ATP	C5'-O5'-PA-O3A
4	D	5002	ATP	C5'-O5'-PA-O1A
4	D	5002	ATP	C5'-O5'-PA-O2A
4	D	5002	ATP	C5'-O5'-PA-O3A
4	B	5002	ATP	C5'-O5'-PA-O1A
4	B	5002	ATP	C5'-O5'-PA-O2A
4	B	5002	ATP	C5'-O5'-PA-O3A
4	C	5002	ATP	C5'-O5'-PA-O1A
4	C	5002	ATP	C5'-O5'-PA-O2A
4	C	5002	ATP	C5'-O5'-PA-O3A
4	A	5002	ATP	C4'-C5'-O5'-PA
4	D	5002	ATP	C4'-C5'-O5'-PA
4	B	5002	ATP	C4'-C5'-O5'-PA
4	C	5002	ATP	C4'-C5'-O5'-PA
4	A	5005	ATP	PB-O3B-PG-O3G
4	D	5005	ATP	PB-O3B-PG-O3G
4	B	5005	ATP	PB-O3B-PG-O3G
4	C	5005	ATP	PB-O3B-PG-O3G
4	A	5002	ATP	PA-O3A-PB-O3B
4	D	5002	ATP	PA-O3A-PB-O3B
4	B	5002	ATP	PA-O3A-PB-O3B
4	C	5002	ATP	PA-O3A-PB-O3B
4	A	5002	ATP	PB-O3A-PA-O2A
4	D	5002	ATP	PB-O3A-PA-O2A
4	D	5005	ATP	PA-O3A-PB-O2B
4	B	5002	ATP	PB-O3A-PA-O2A
4	B	5005	ATP	PA-O3A-PB-O2B
4	C	5002	ATP	PB-O3A-PA-O2A

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Mol	Chain	Res	Type	Atoms
4	C	5005	ATP	PA-O3A-PB-O2B
4	A	5005	ATP	O4'-C1'-N9-C8
4	D	5005	ATP	O4'-C1'-N9-C8
4	C	5005	ATP	O4'-C1'-N9-C8
4	B	5005	ATP	O4'-C1'-N9-C8
4	A	5002	ATP	PA-O3A-PB-O1B
4	A	5005	ATP	PA-O3A-PB-O2B
4	D	5002	ATP	PA-O3A-PB-O1B
4	B	5002	ATP	PA-O3A-PB-O1B
4	C	5002	ATP	PA-O3A-PB-O1B

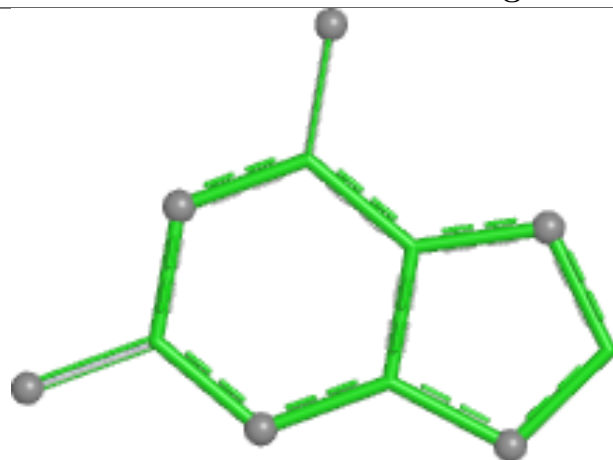
There are no ring outliers.

4 monomers are involved in 20 short contacts:

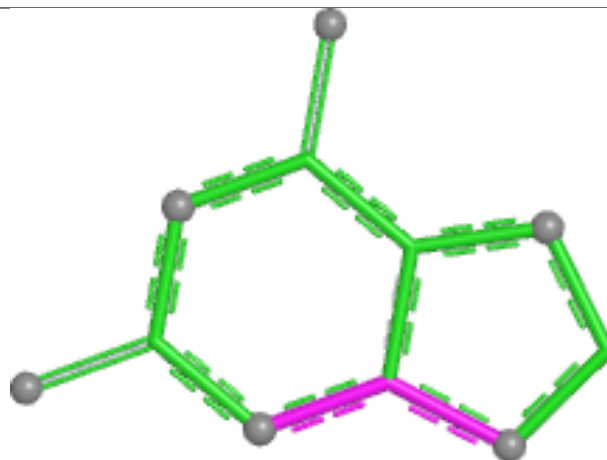
Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	C	5002	ATP	5	0
4	D	5002	ATP	5	0
4	B	5002	ATP	5	0
4	A	5002	ATP	5	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

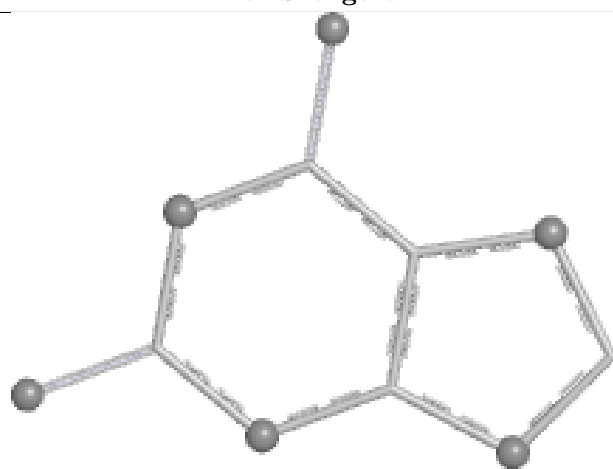
Ligand XAN C 5004



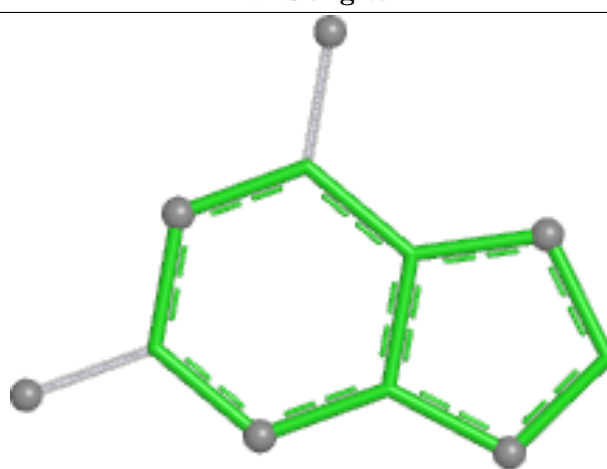
Bond lengths



Bond angles

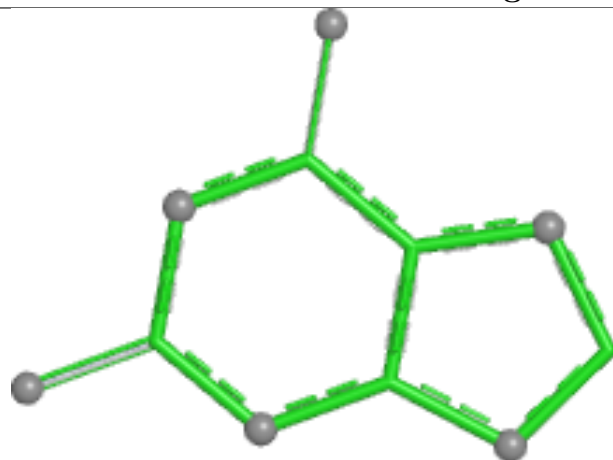


Torsions

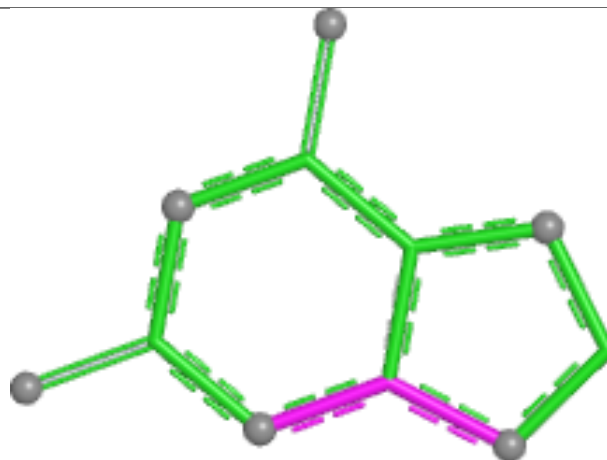


Rings

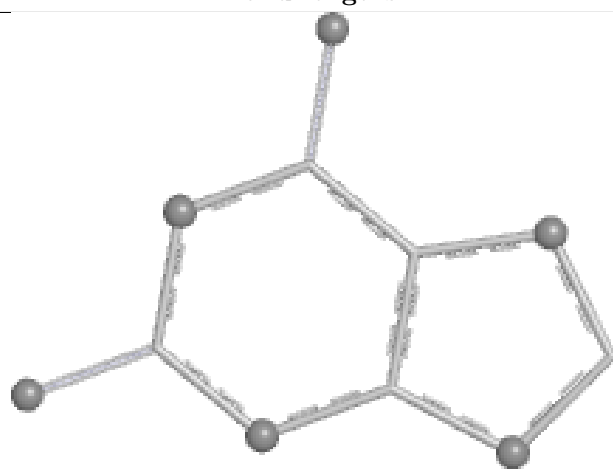
Ligand XAN B 5004



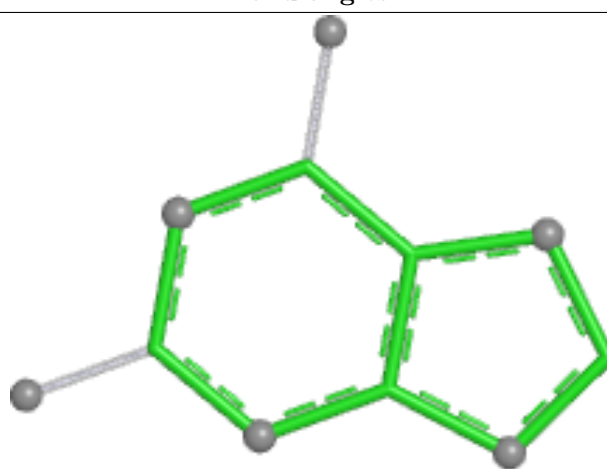
Bond lengths



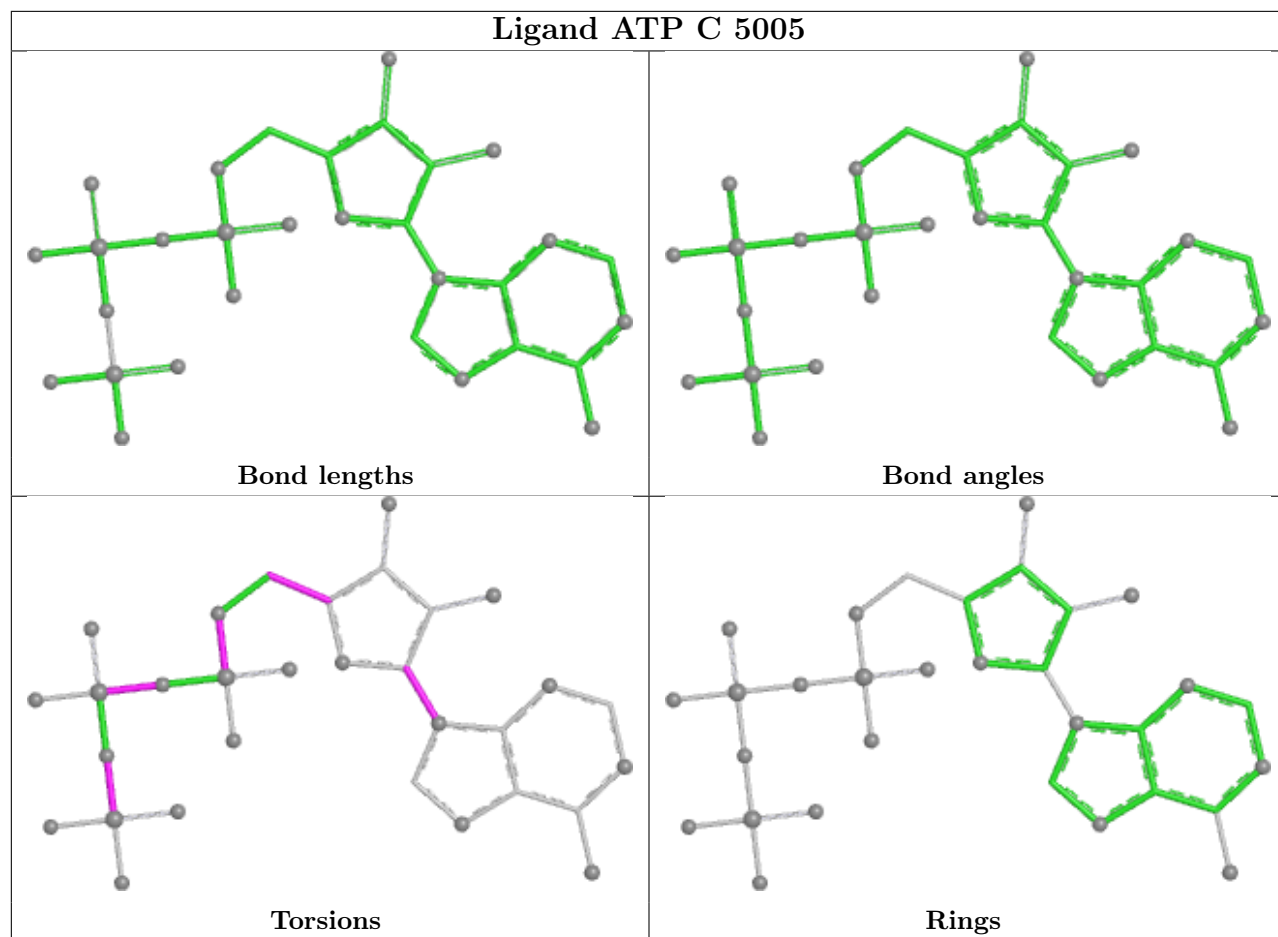
Bond angles

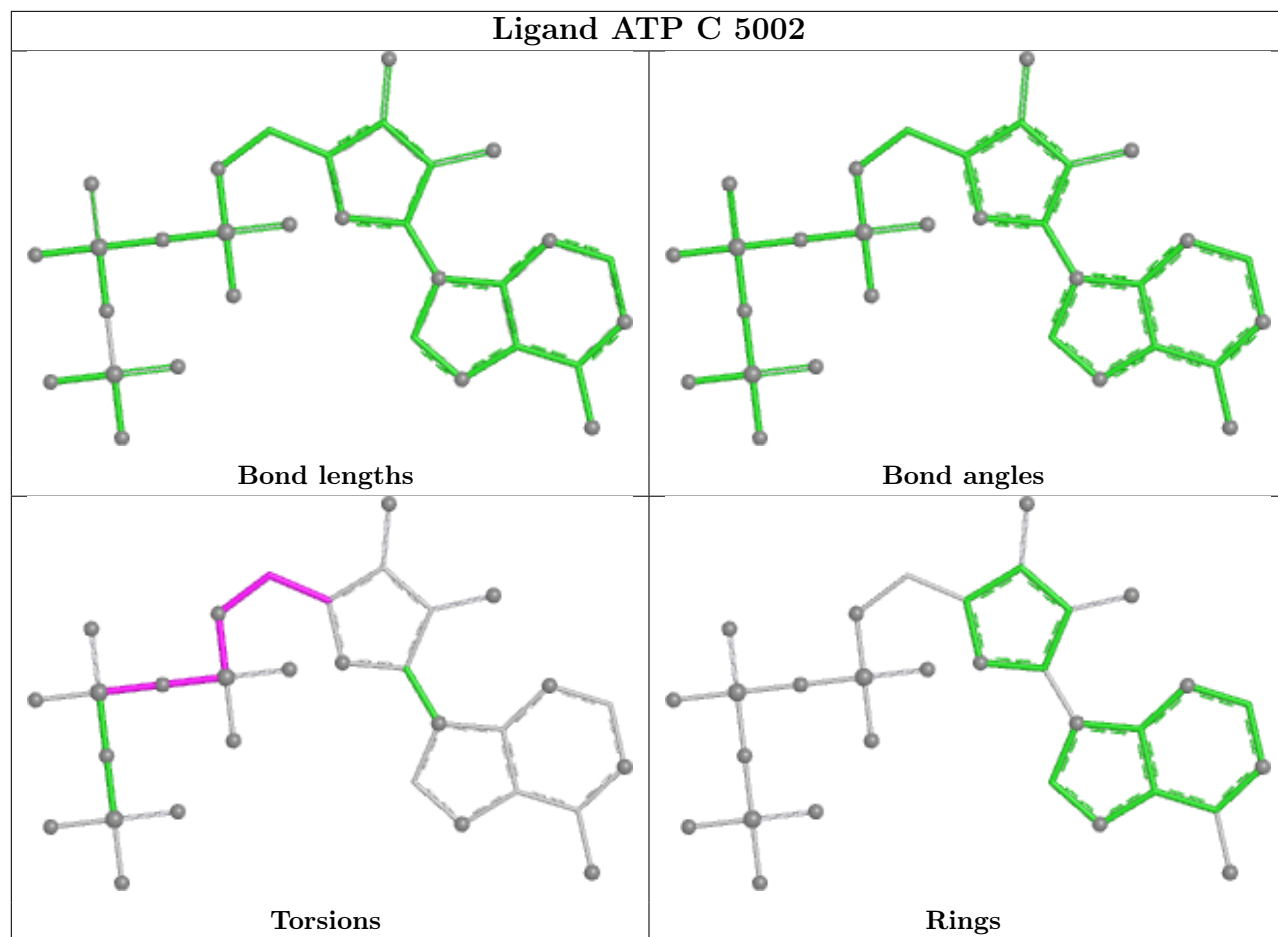


Torsions

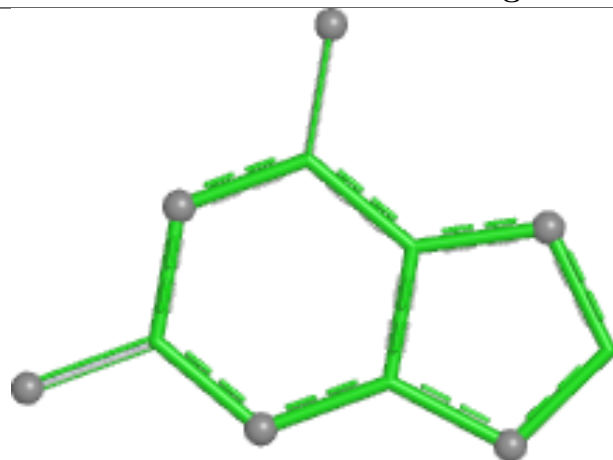


Rings

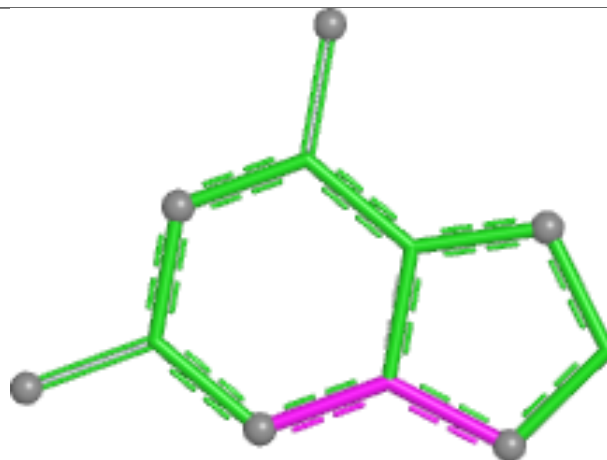




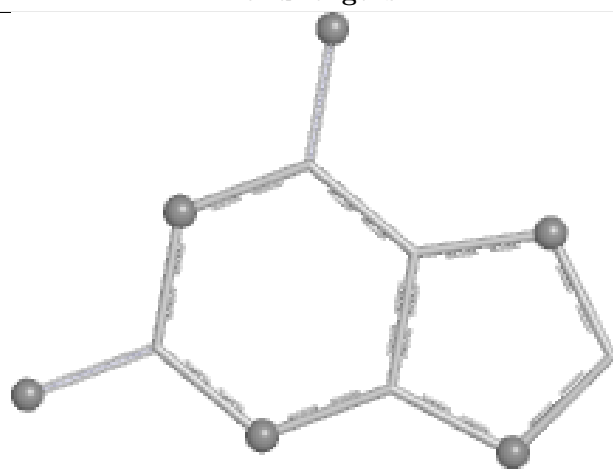
Ligand XAN A 5004



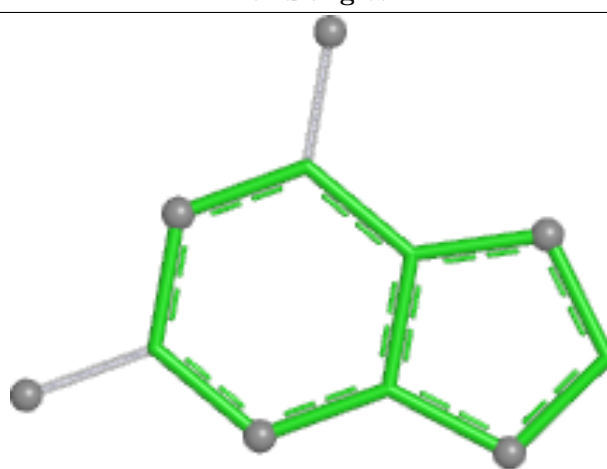
Bond lengths



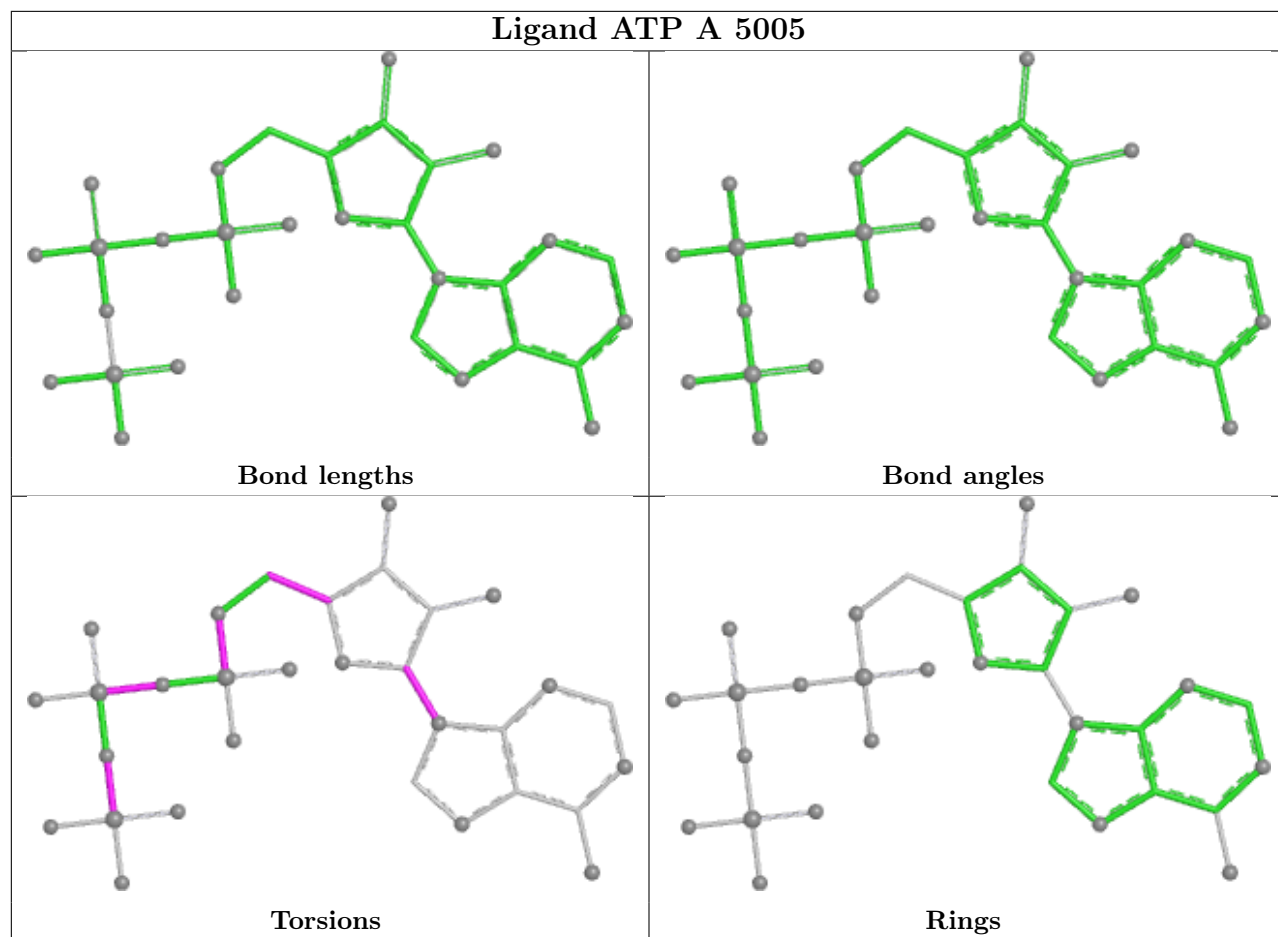
Bond angles

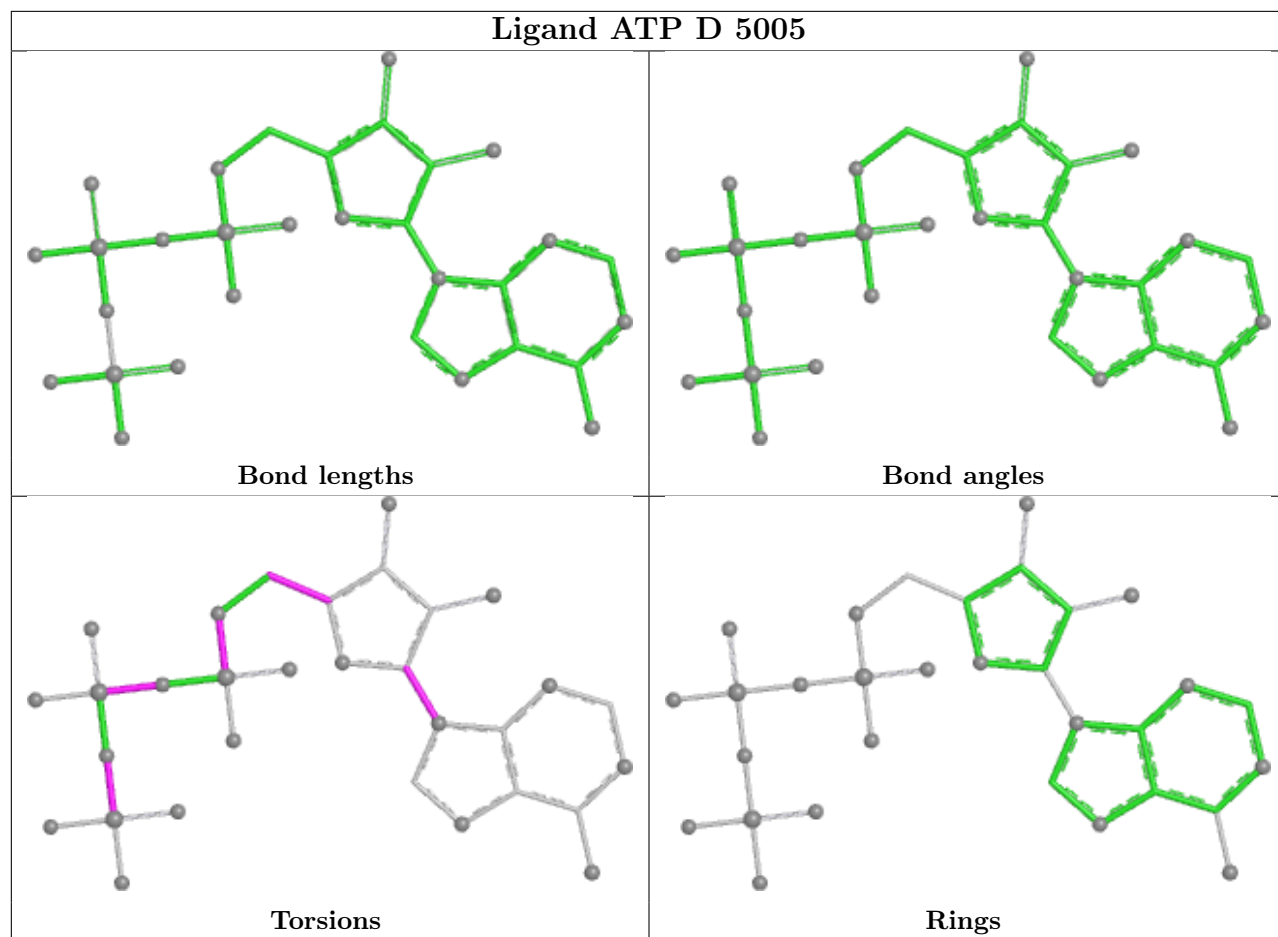


Torsions

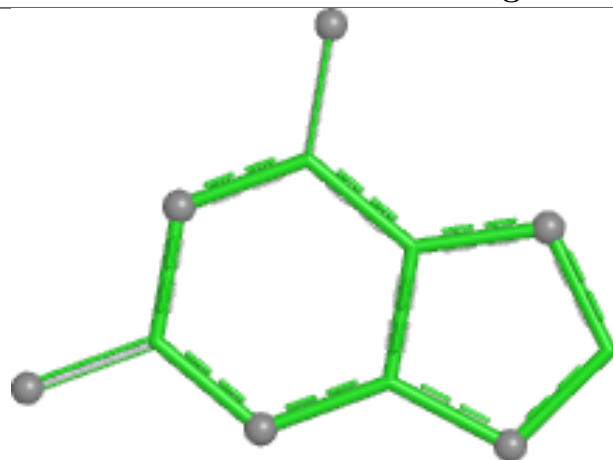


Rings

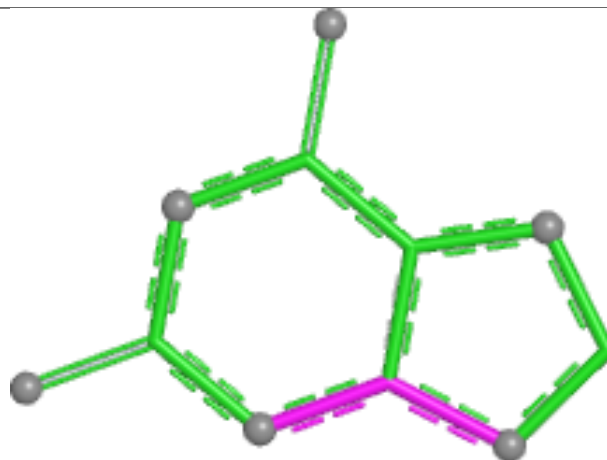




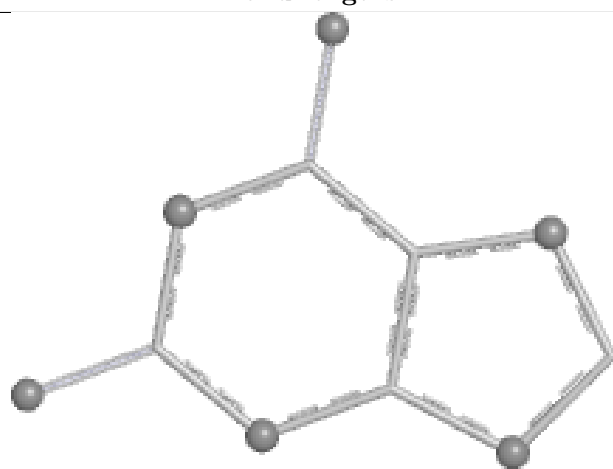
Ligand XAN D 5004



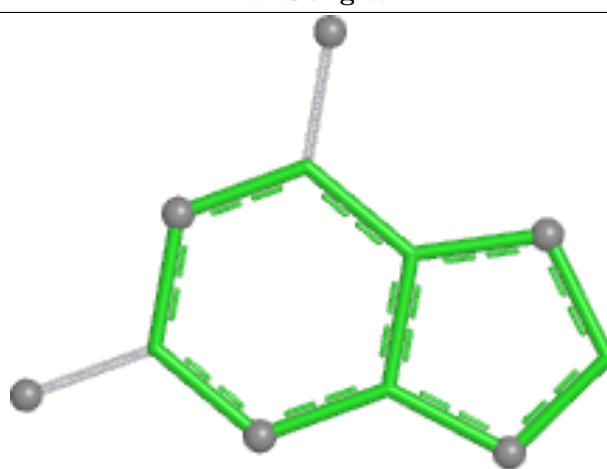
Bond lengths



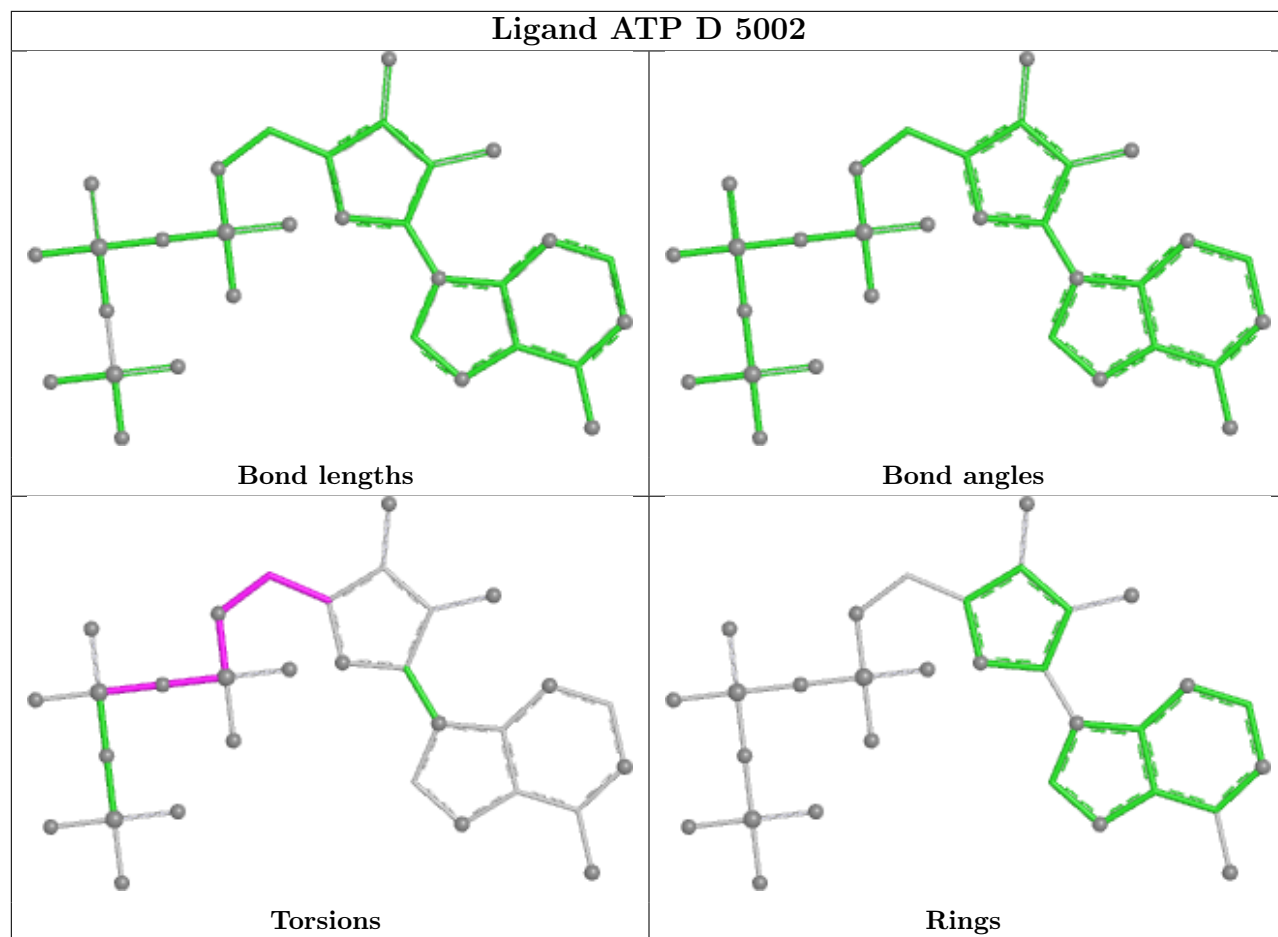
Bond angles

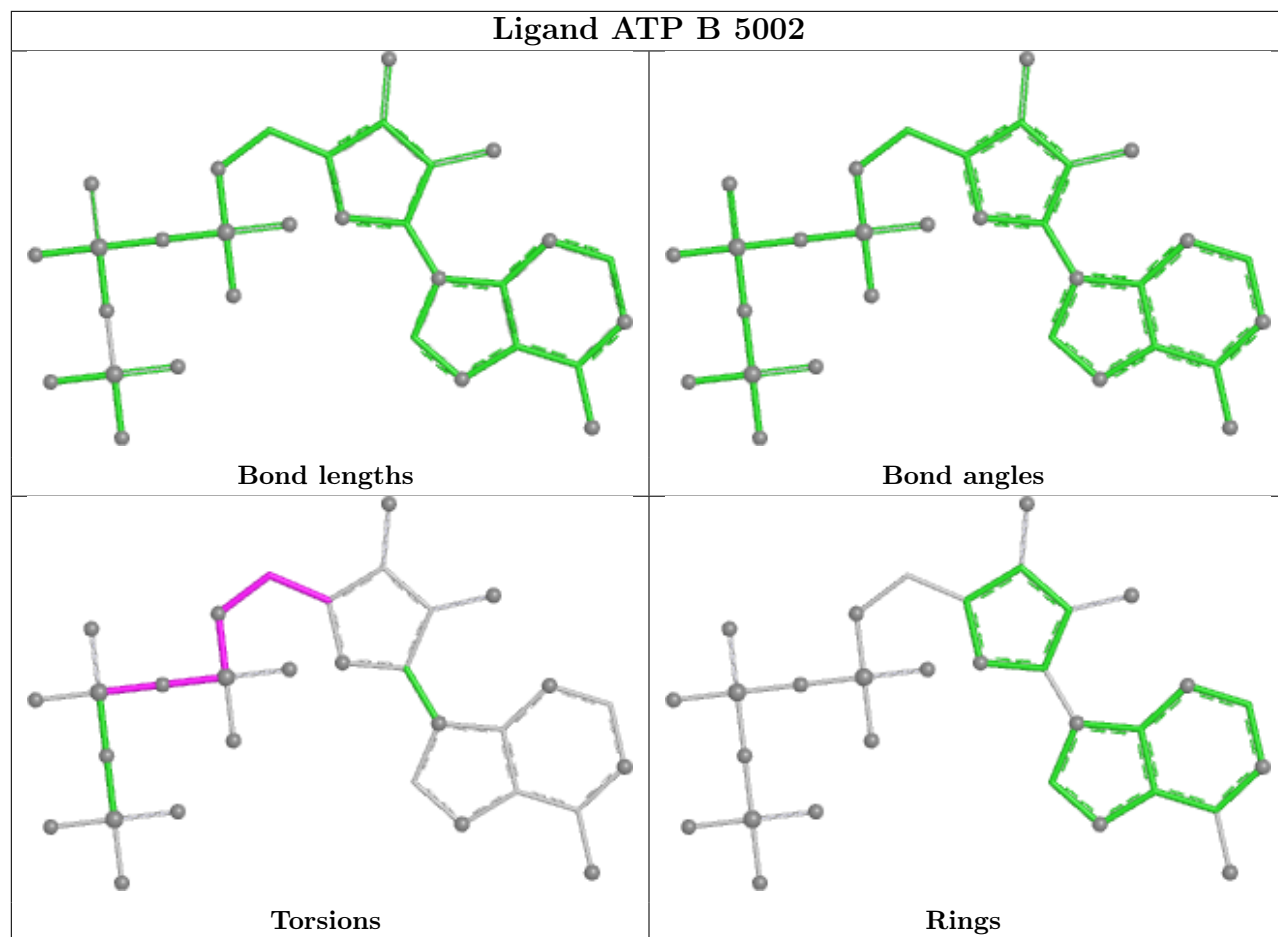


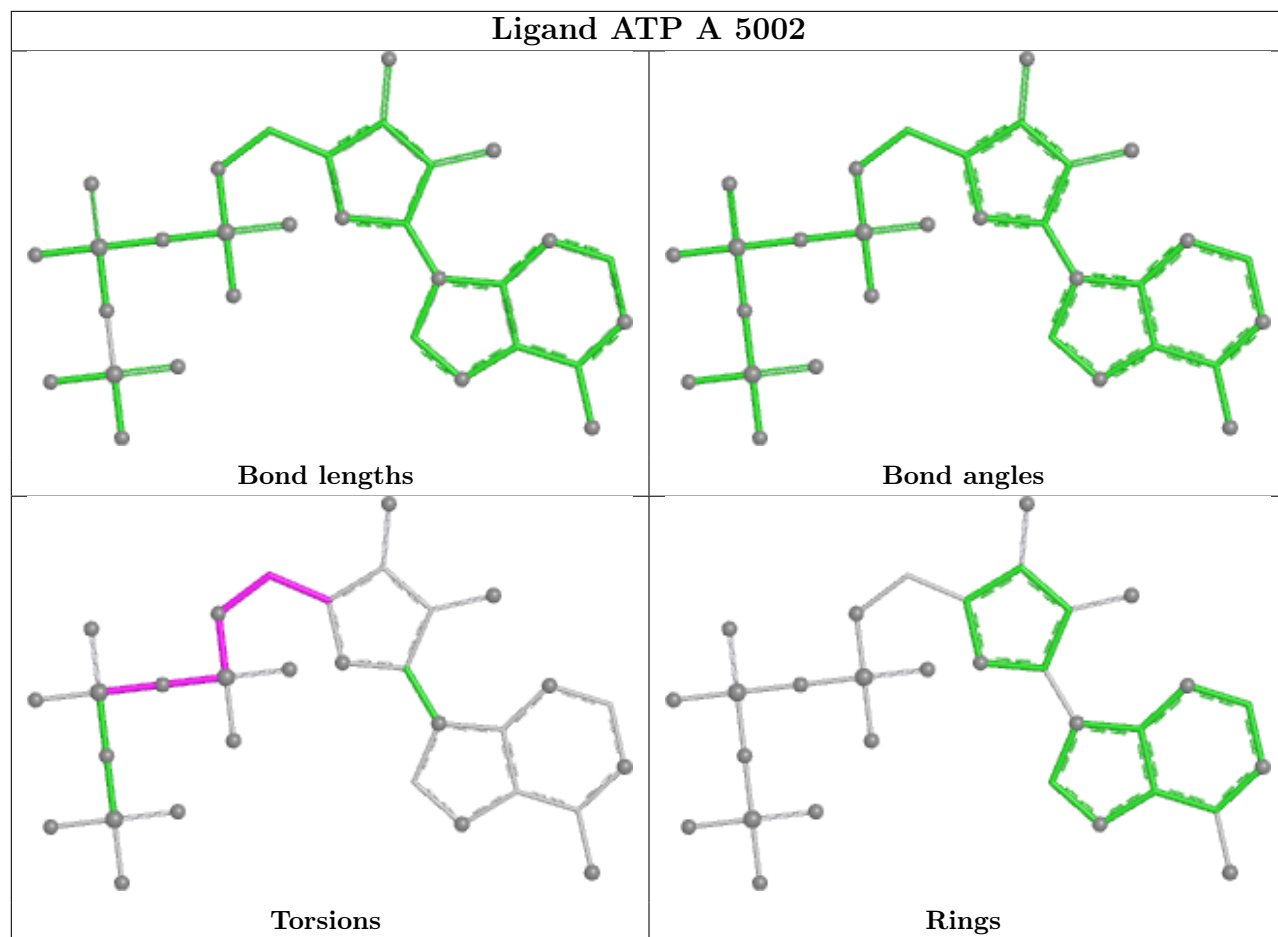
Torsions

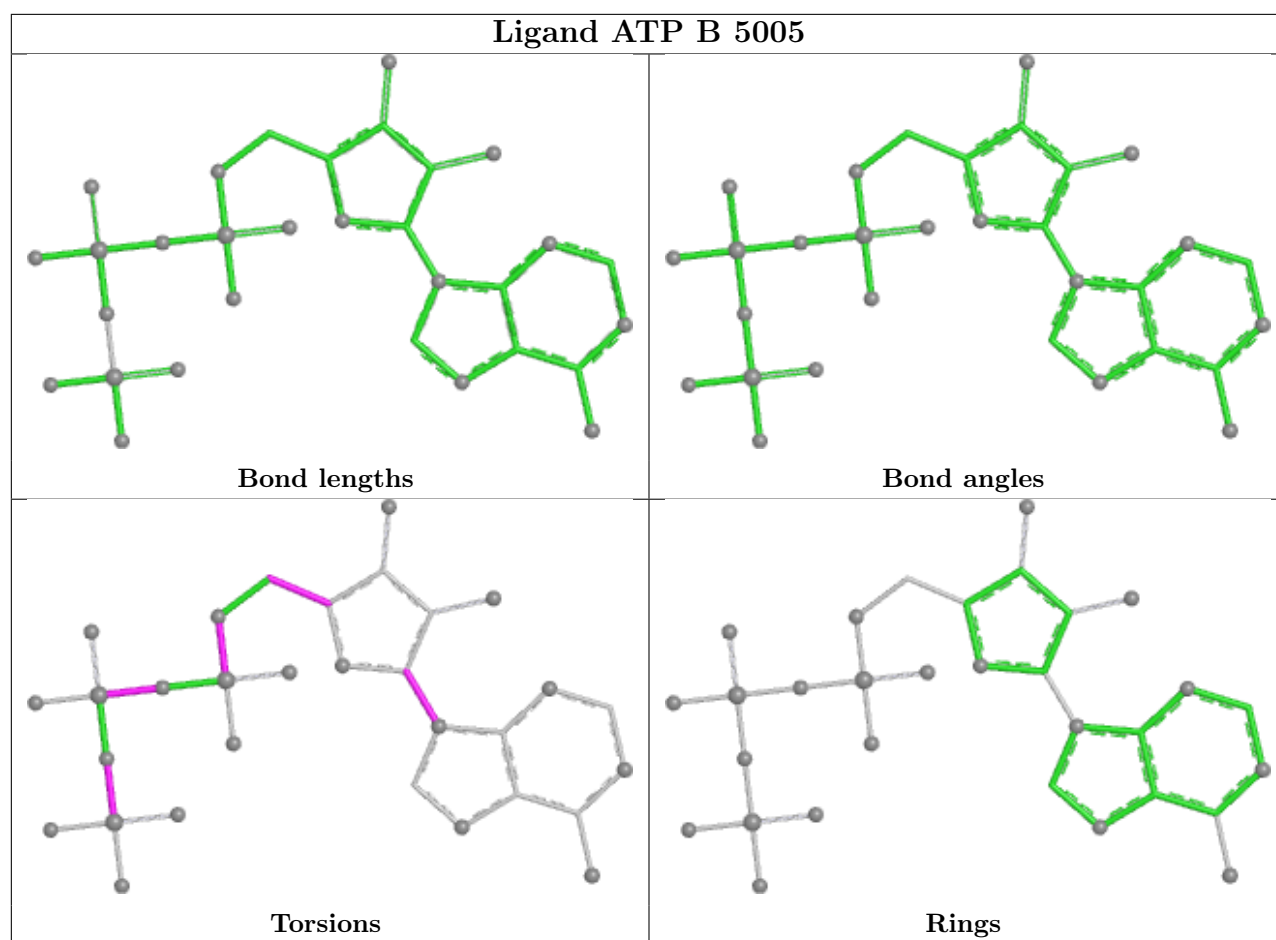


Rings









5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

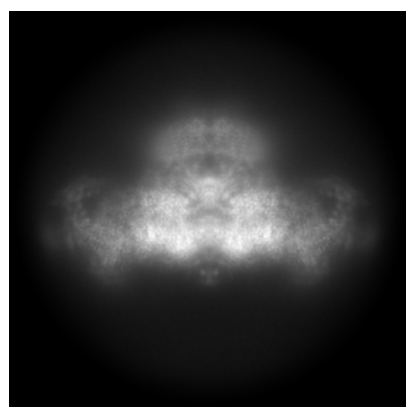
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-26407. These allow visual inspection of the internal detail of the map and identification of artifacts.

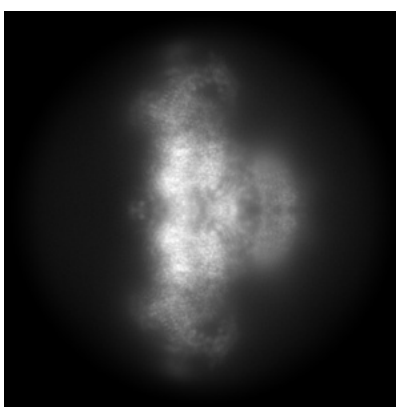
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

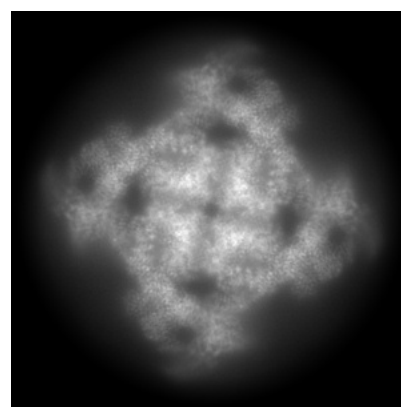
6.1.1 Primary map



X



Y

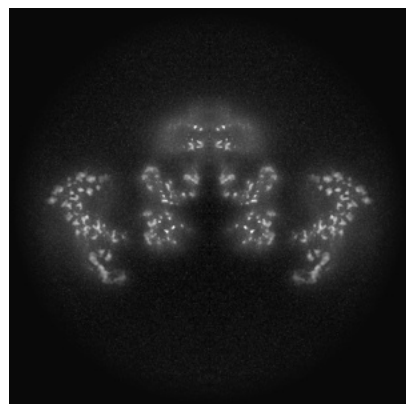


Z

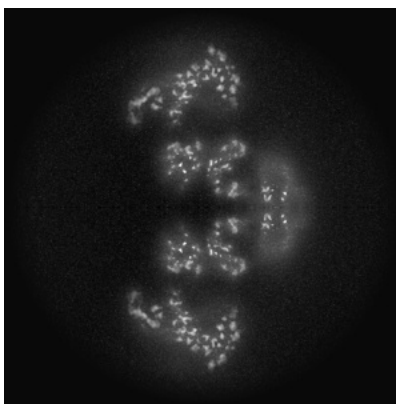
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

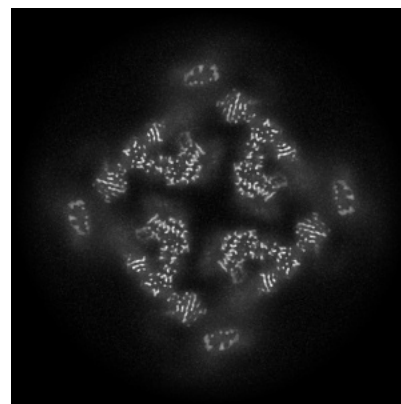
6.2.1 Primary map



X Index: 256



Y Index: 256

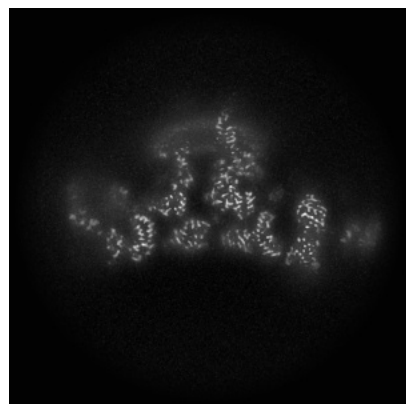


Z Index: 256

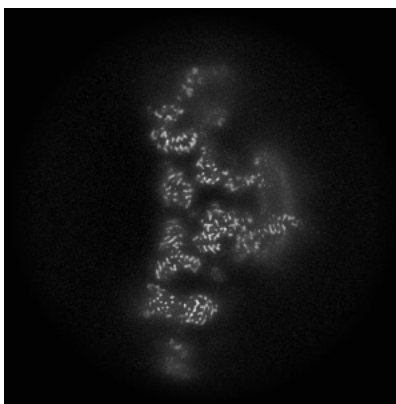
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

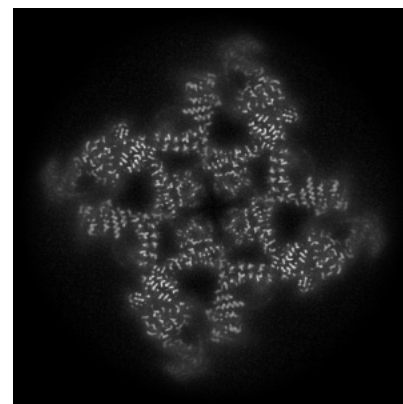
6.3.1 Primary map



X Index: 292



Y Index: 292

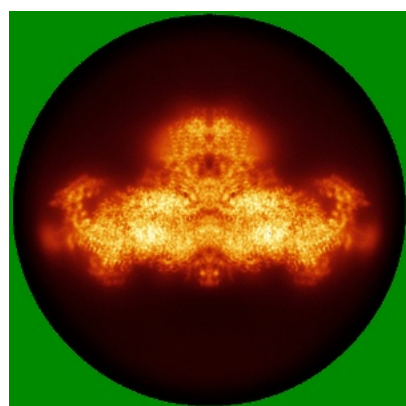


Z Index: 227

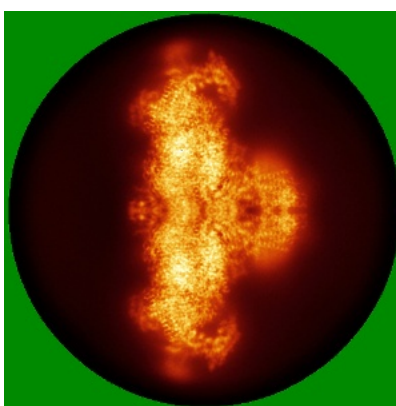
The images above show the largest variance slices of the map in three orthogonal directions.

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

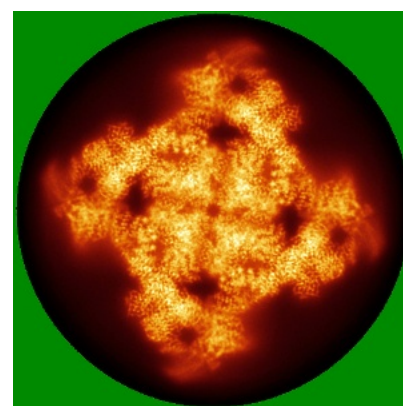
6.4.1 Primary map



X



Y

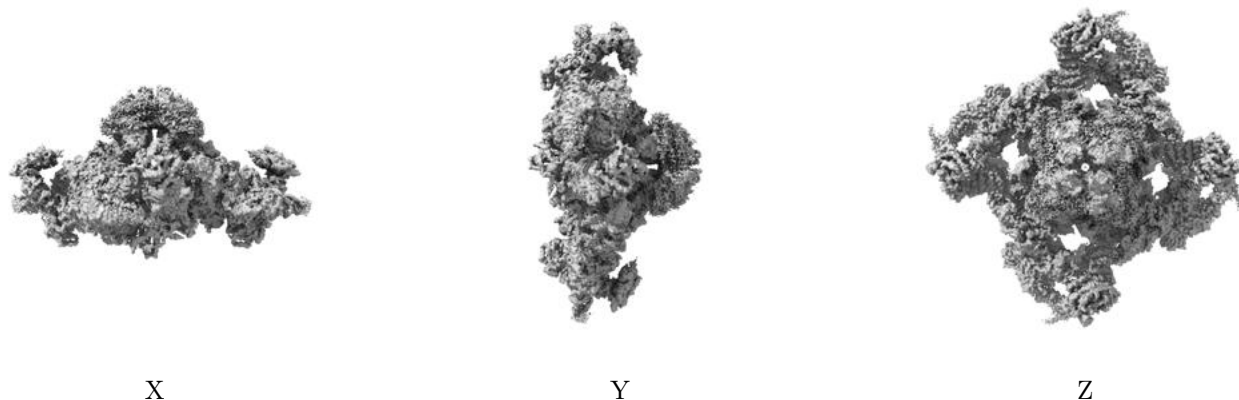


Z

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

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.13. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

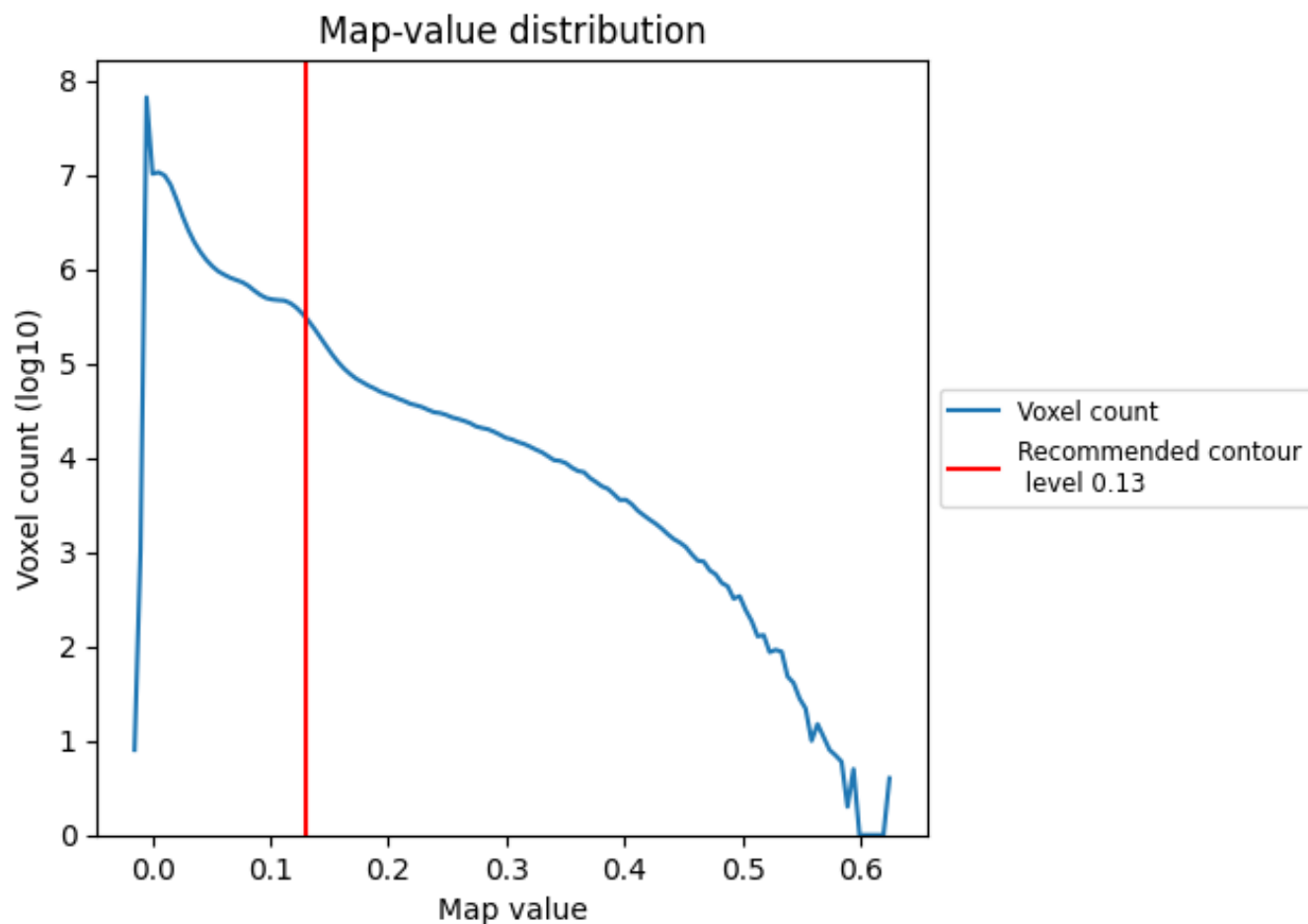
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

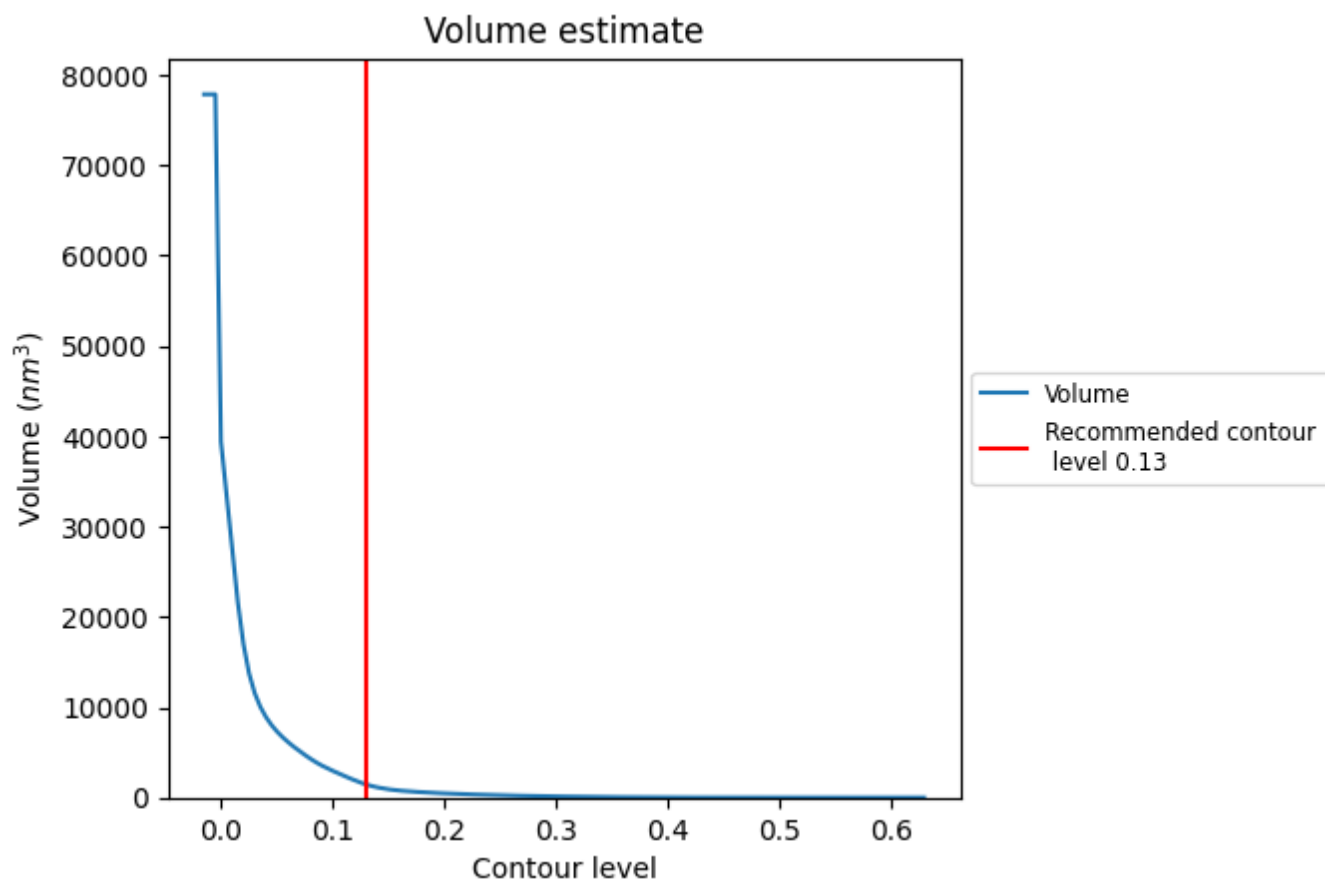
This section contains the results of statistical analysis of the map.

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.

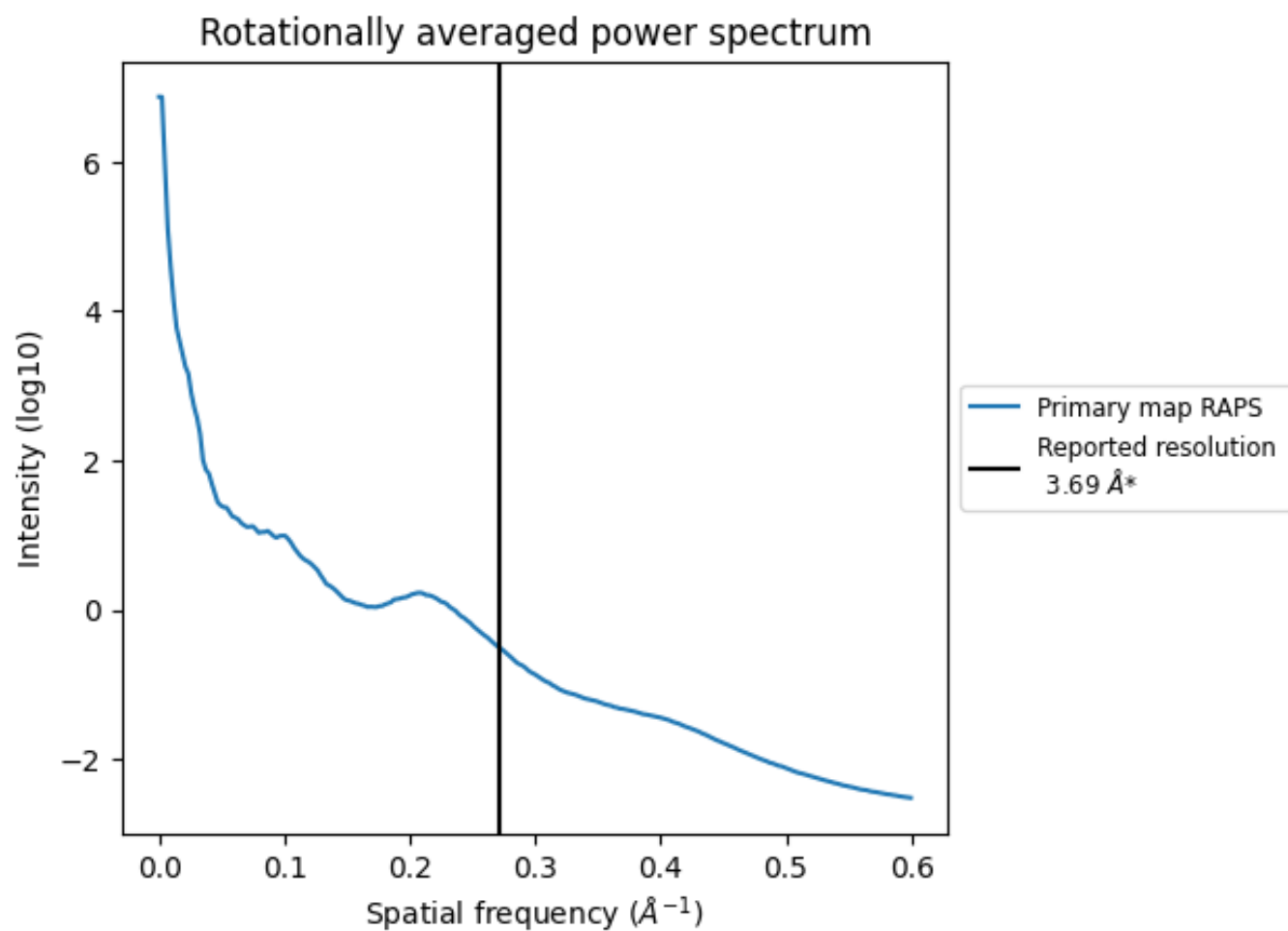
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1461 nm^3 ; this corresponds to an approximate mass of 1320 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 0.271 $\text{\AA}^{-1}$

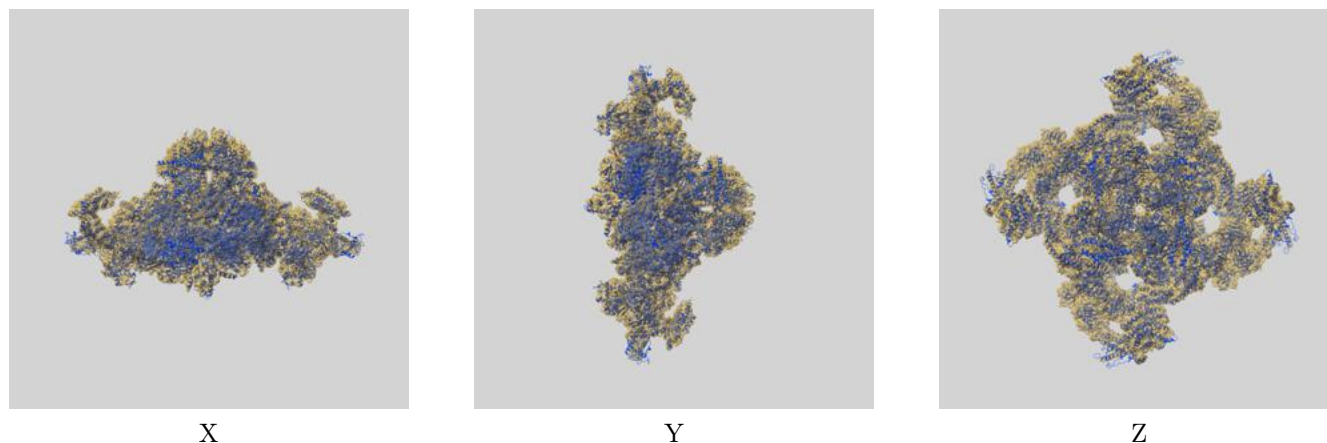
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

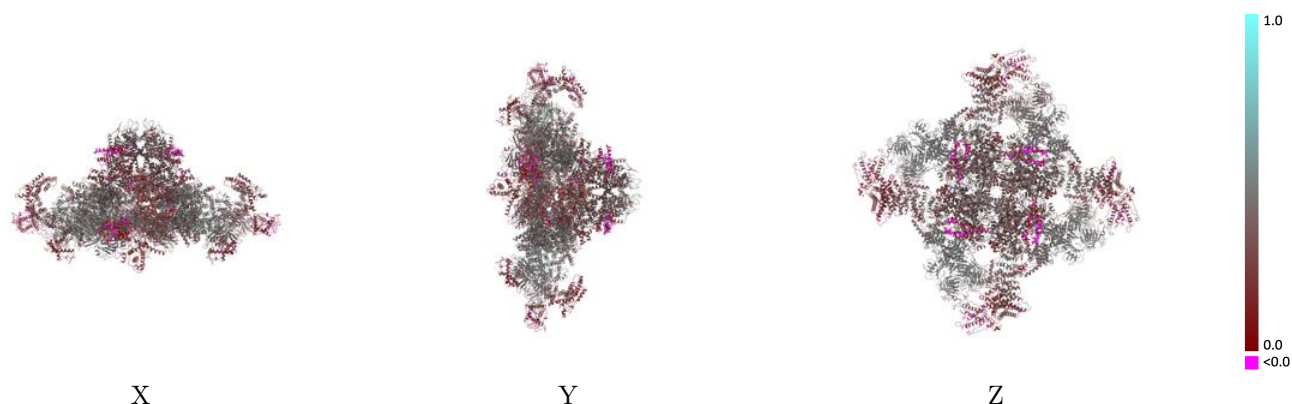
This section contains information regarding the fit between EMDB map EMD-26407 and PDB model 7U9R. Per-residue inclusion information can be found in section [3](#) on page [7](#).

9.1 Map-model overlay [i](#)



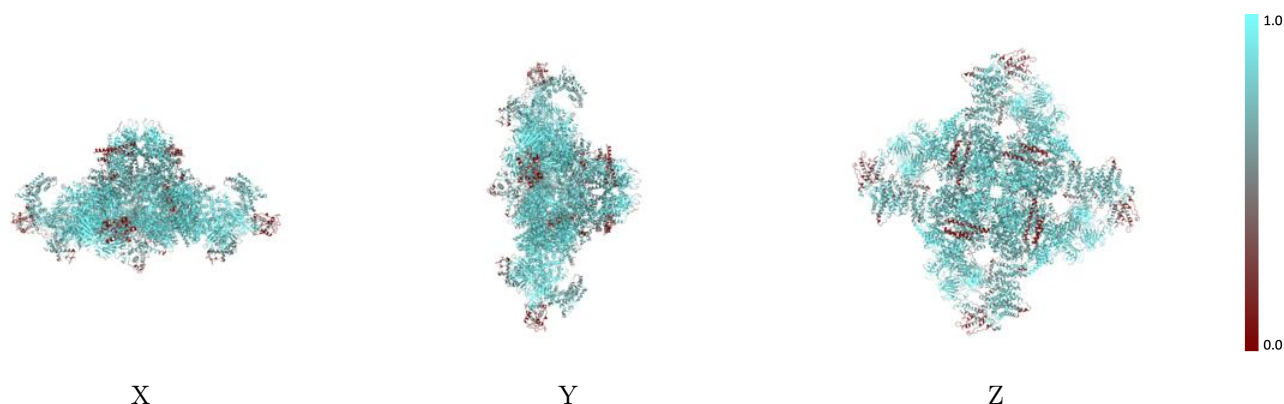
The images above show the 3D surface view of the map at the recommended contour level 0.13 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



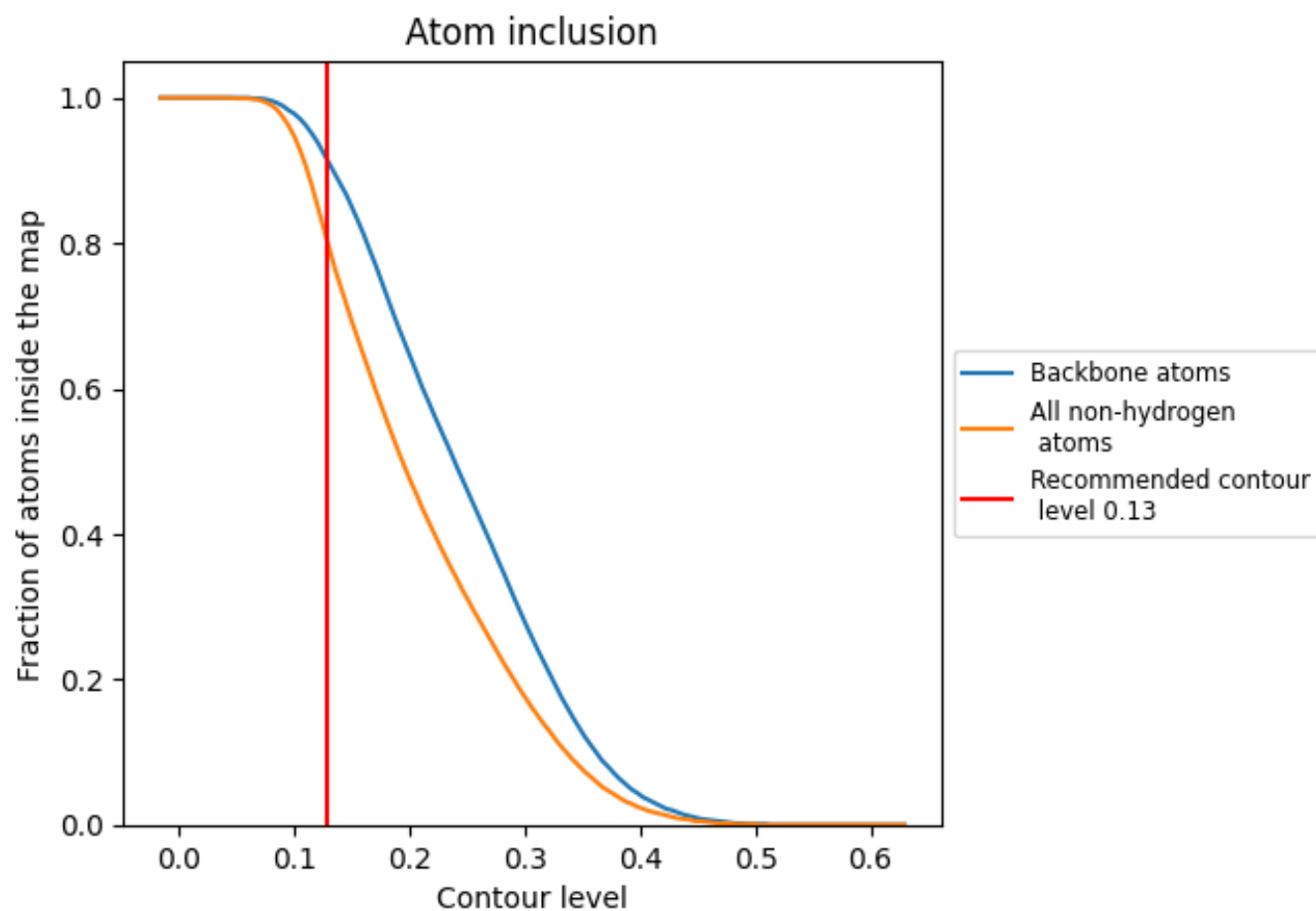
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.13).

9.4 Atom inclusion [i](#)



At the recommended contour level, 91% of all backbone atoms, 80% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.13) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.7980	0.3530
A	0.7990	0.3650
B	0.7930	0.3440
C	0.7910	0.3410
D	0.7960	0.3510
E	0.9170	0.4850
F	0.9190	0.4720
G	0.9120	0.4770
H	0.9090	0.4720

