



Full wwPDB EM Validation Report ⓘ

Nov 10, 2024 – 07:50 PM EST

PDB ID : 8TKI
EMDB ID : EMD-41352
Title : Human Type 3 IP3 Receptor - Labile Resting State 2 (+IP3/ATP)
Authors : Paknejad, N.; Sapuru, V.; Hite, R.K.
Deposited on : 2023-07-25
Resolution : 3.60 Å(reported)

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

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev113
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4.02b-467
buster-report : 1.1.7 (2018)
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.39

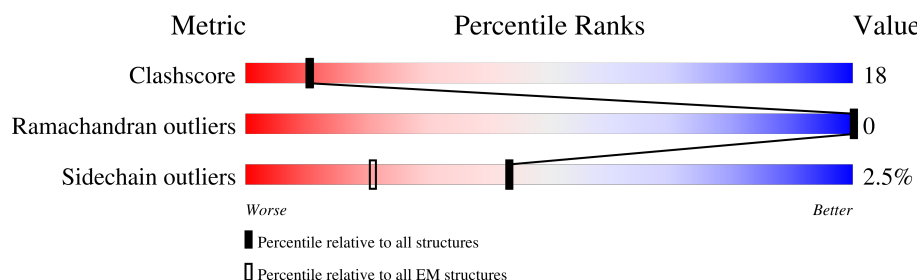
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY





The reported resolution of this entry is 3.60 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

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

Mol	Chain	Length	Quality of chain
1	A	2671	
1	B	2671	
1	C	2671	
1	D	2671	

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 145900 atoms, of which 72928 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.

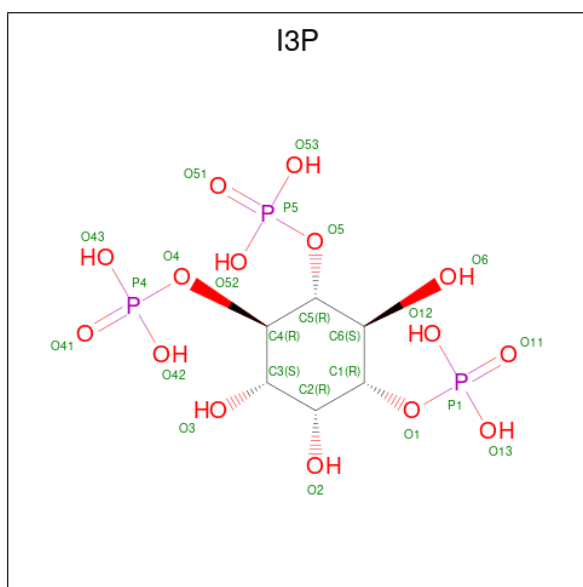
- Molecule 1 is a protein called Inositol 1,4,5-trisphosphate receptor type 3.

Mol	Chain	Residues	Atoms						AltConf	Trace
1	A	2268	Total	C	H	N	O	S	0	0
			36398	11601	18211	3116	3355	115		
1	B	2268	Total	C	H	N	O	S	0	0
			36398	11601	18211	3116	3355	115		
1	C	2268	Total	C	H	N	O	S	0	0
			36398	11601	18211	3116	3355	115		
1	D	2268	Total	C	H	N	O	S	0	0
			36398	11601	18211	3116	3355	115		

- Molecule 2 is ZINC ION (three-letter code: ZN) (formula: Zn).

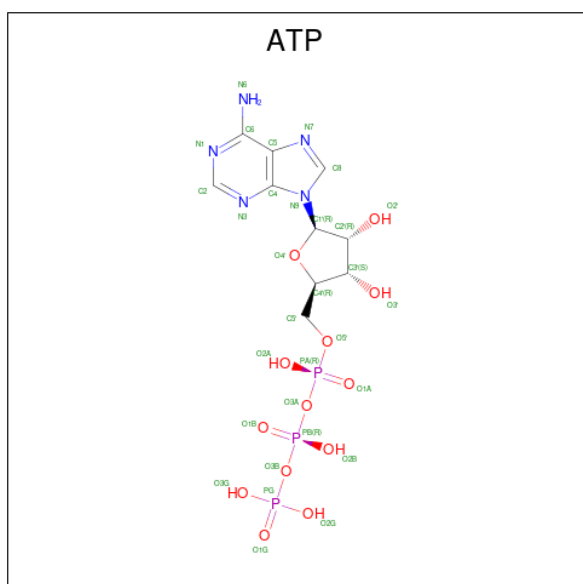
Mol	Chain	Residues	Atoms		AltConf
2	A	1	Total	Zn	0
			1	1	
2	B	1	Total	Zn	0
			1	1	
2	C	1	Total	Zn	0
			1	1	
2	D	1	Total	Zn	0
			1	1	

- Molecule 3 is D-MYO-INOSITOL-1,4,5-TRIPHOSPHATE (three-letter code: I3P) (formula: $C_6H_{15}O_{15}P_3$) (labeled as "Ligand of Interest" by depositor).

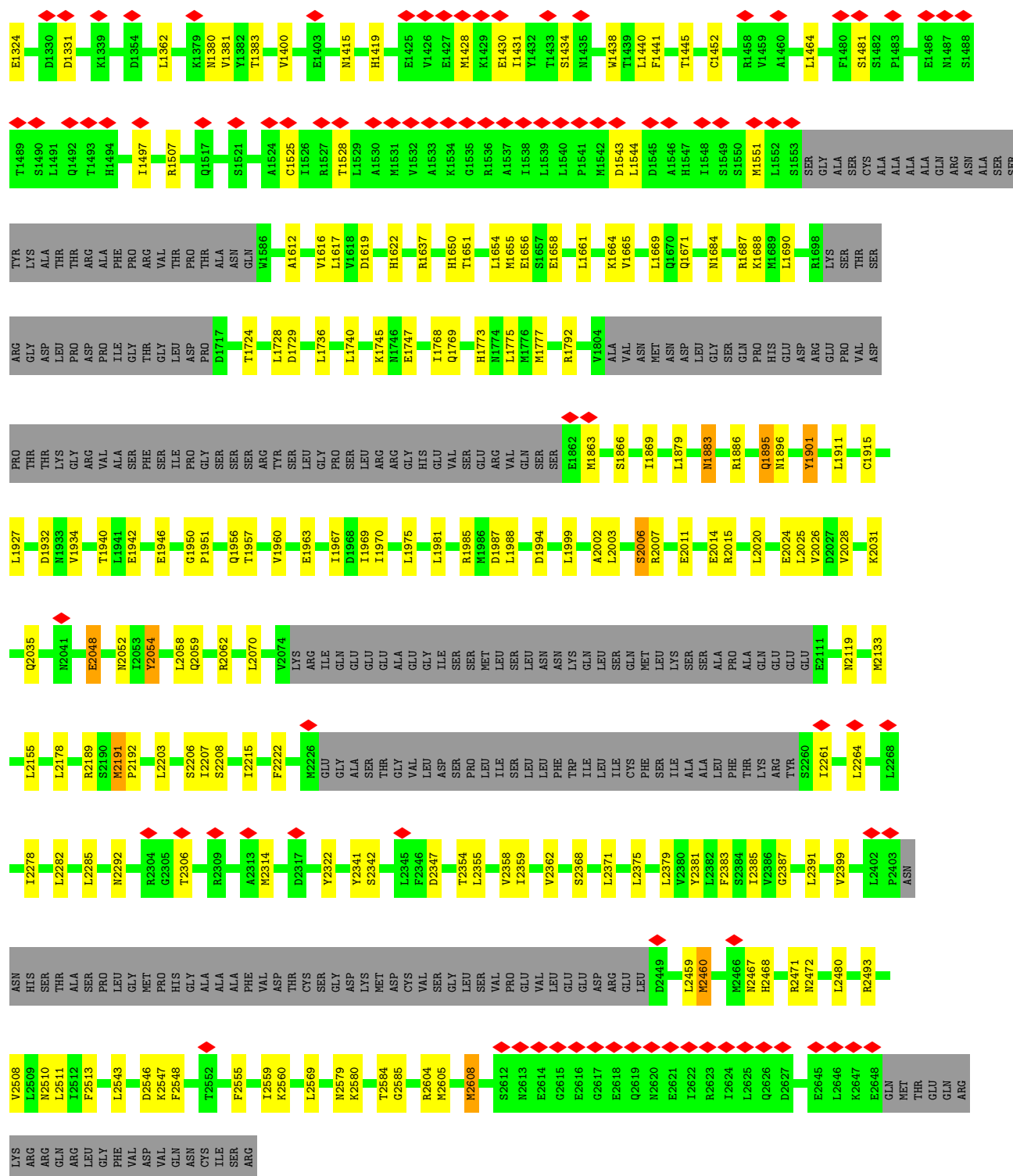


Mol	Chain	Residues	Atoms					AltConf
3	A	1	Total	C	H	O	P	0
			33	6	9	15	3	
3	B	1	Total	C	H	O	P	0
			33	6	9	15	3	
3	C	1	Total	C	H	O	P	0
			33	6	9	15	3	
3	D	1	Total	C	H	O	P	0
			33	6	9	15	3	

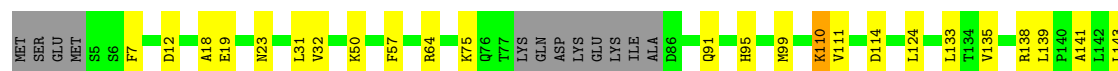
- Molecule 4 is ADENOSINE-5'-TRIPHOSPHATE (three-letter code: ATP) (formula: $C_{10}H_{16}N_5O_{13}P_3$) (labeled as "Ligand of Interest" by depositor).

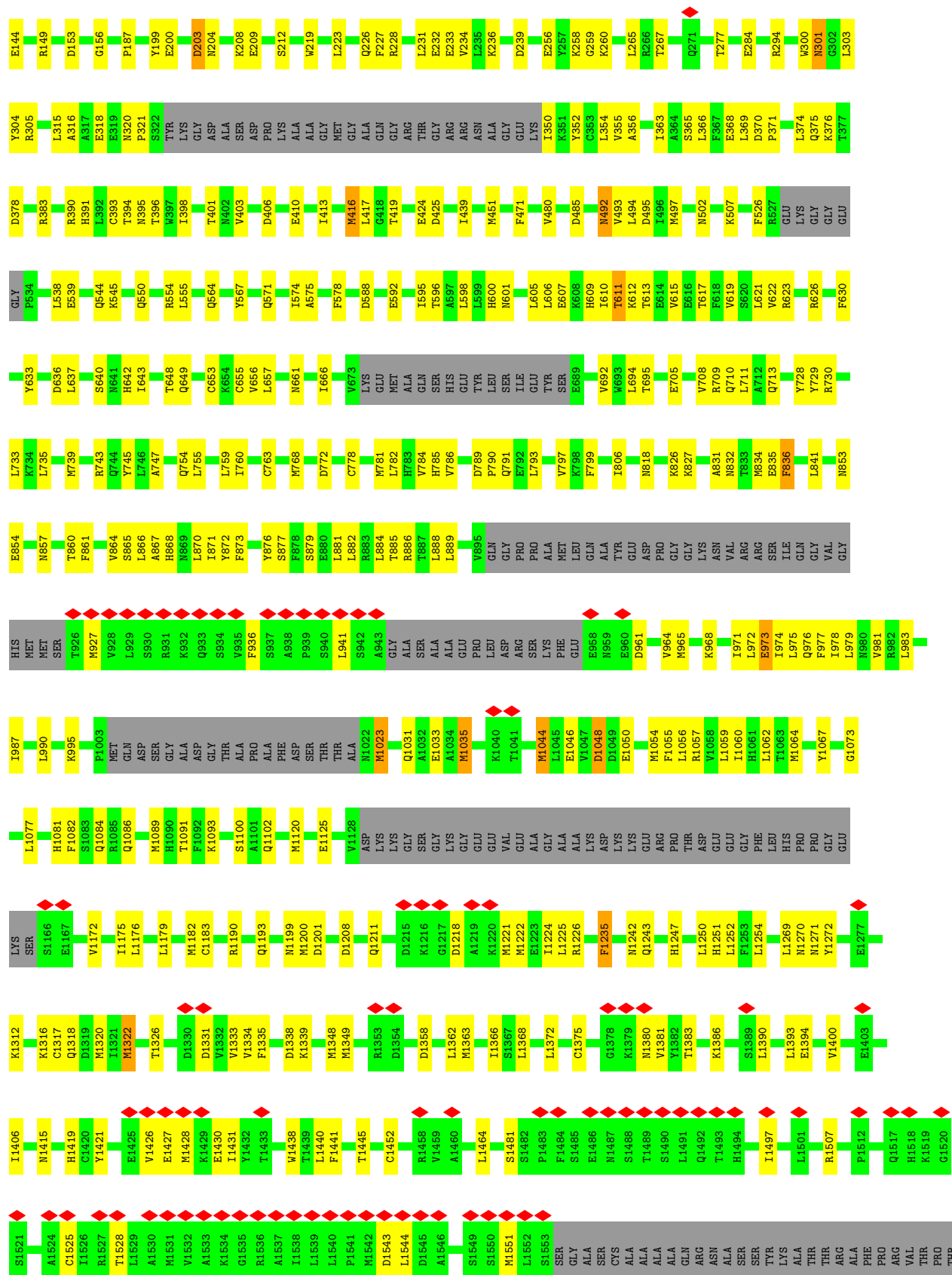


Mol	Chain	Residues	Atoms						AltConf
4	A	1	Total 43	C 10	H 12	N 5	O 13	P 3	0
4	B	1	Total 43	C 10	H 12	N 5	O 13	P 3	0
4	C	1	Total 43	C 10	H 12	N 5	O 13	P 3	0
4	D	1	Total 43	C 10	H 12	N 5	O 13	P 3	0



• Molecule 1: Inositol 1,4,5-trisphosphate receptor type 3













4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	155671	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 ($e^-/\text{\AA}^2$)	66	Depositor
Minimum defocus (nm)	700	Depositor
Maximum defocus (nm)	4300	Depositor
Magnification	29000	Depositor
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	0.933	Depositor
Minimum map value	-0.374	Depositor
Average map value	-0.001	Depositor
Map value standard deviation	0.033	Depositor
Recommended contour level	0.15	Depositor
Map size (\AA)	422.912, 422.912, 422.912	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	0.826, 0.826, 0.826	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: ATP, ZN, I3P

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.24	0/18521	0.46	0/25031
1	B	0.24	0/18521	0.46	0/25031
1	C	0.24	0/18521	0.46	0/25031
1	D	0.24	0/18521	0.46	0/25031
All	All	0.24	0/74084	0.46	0/100124

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	18187	18211	18206	363	0
1	B	18187	18211	18209	859	0
1	C	18187	18211	18208	741	0
1	D	18187	18211	18207	917	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
2	C	1	0	0	0	0
2	D	1	0	0	0	0
3	A	24	9	9	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	B	24	9	9	0	0
3	C	24	9	9	0	0
3	D	24	9	9	0	0
4	A	31	12	12	1	0
4	B	31	12	12	0	0
4	C	31	12	12	1	0
4	D	31	12	12	0	0
All	All	72972	72928	72914	2691	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 18.

All (2691) 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)
1:A:2355:LEU:CB	1:D:2371:LEU:HD21	1.21	1.64
1:B:138:ARG:NH1	1:C:1288:HIS:CE1	1.70	1.59
1:A:1288:HIS:CE1	1:D:138:ARG:NH1	1.70	1.57
1:B:2497:ASP:CA	1:C:2471:ARG:NH2	1.71	1.53
1:A:1288:HIS:CE1	1:D:138:ARG:CZ	1.89	1.52
1:A:2355:LEU:HB2	1:D:2371:LEU:CD2	1.08	1.52
1:B:138:ARG:CZ	1:C:1288:HIS:CE1	1.89	1.51
1:B:2497:ASP:CB	1:C:2471:ARG:NH1	1.71	1.51
1:B:138:ARG:NH2	1:C:1288:HIS:CE1	1.77	1.50
1:A:1288:HIS:NE2	1:D:138:ARG:CZ	1.75	1.50
1:A:1288:HIS:CE1	1:D:138:ARG:NH2	1.77	1.49
1:C:840:TYR:CD2	1:C:863:VAL:HG21	1.49	1.46
1:B:2497:ASP:HB3	1:C:2471:ARG:CZ	0.99	1.46
1:C:1110:ILE:HD11	1:C:1182:MET:CE	1.42	1.46
1:B:2497:ASP:CB	1:C:2471:ARG:CZ	1.93	1.45
1:B:138:ARG:CZ	1:C:1288:HIS:NE2	1.74	1.45
1:B:2497:ASP:CB	1:C:2471:ARG:NH2	1.82	1.42
1:B:1221:MET:HE1	1:B:1222:MET:CE	1.46	1.42
1:D:2329:THR:HG21	1:D:2343:ILE:CG2	1.50	1.41
1:B:2329:THR:HG21	1:B:2343:ILE:CG2	1.49	1.38
1:D:1973:LEU:HD21	1:D:1992:LEU:CD1	1.52	1.36
1:A:2020:LEU:HD11	1:A:2025:LEU:CD1	1.55	1.34
1:C:2020:LEU:HD11	1:C:2025:LEU:CD1	1.55	1.34
1:B:2497:ASP:HB3	1:C:2471:ARG:NH1	1.04	1.33
1:B:755:LEU:HD12	1:B:759:LEU:CD2	1.59	1.31
1:C:1654:LEU:HD22	1:C:1661:LEU:CD2	1.60	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2355:LEU:CB	1:D:2371:LEU:CD2	1.88	1.31
1:C:2481:ARG:NH2	1:D:2402:LEU:HD11	1.43	1.30
1:D:1239:ASN:OD1	1:D:1242:ASN:CG	1.69	1.30
1:D:1994:ASP:OD2	1:D:2044:VAL:HG11	1.27	1.30
1:B:1994:ASP:OD1	1:B:2049:VAL:HG21	1.29	1.28
1:A:1288:HIS:CE1	1:D:138:ARG:HH22	1.44	1.28
1:D:1994:ASP:OD1	1:D:2049:VAL:CG2	1.83	1.27
1:B:1994:ASP:OD2	1:B:2044:VAL:HG11	1.34	1.27
1:C:2501:PHE:HB2	1:D:2471:ARG:NH1	1.46	1.26
1:D:709:ARG:O	1:D:713:GLN:OE1	1.53	1.26
1:B:1183:CYS:O	1:B:1193:GLN:OE1	1.53	1.26
1:B:2497:ASP:HB3	1:C:2471:ARG:NH2	1.44	1.26
1:C:1044:MET:SD	1:C:1045:LEU:HD13	1.74	1.25
1:D:1110:ILE:HD11	1:D:1182:MET:SD	1.75	1.24
1:D:1994:ASP:OD1	1:D:2049:VAL:HG21	1.24	1.24
1:D:1943:THR:HG22	1:D:1947:TYR:CE2	1.71	1.24
1:D:2010:SER:HB3	1:D:2063:HIS:ND1	1.51	1.24
1:A:1288:HIS:NE2	1:D:138:ARG:NH1	1.76	1.23
1:D:2329:THR:CG2	1:D:2343:ILE:CG2	2.16	1.23
1:D:1239:ASN:OD1	1:D:1242:ASN:ND2	1.71	1.22
1:B:138:ARG:HH22	1:C:1288:HIS:CE1	1.43	1.22
1:D:1973:LEU:CD2	1:D:1992:LEU:HD11	1.68	1.22
1:C:1110:ILE:CD1	1:C:1182:MET:CE	2.16	1.21
1:B:2125:GLU:OE2	1:B:2562:GLU:OE2	1.58	1.21
1:B:1886:ARG:O	1:B:1890:ASN:OD1	1.57	1.20
1:C:2020:LEU:CD2	1:C:2025:LEU:HD11	1.70	1.20
1:A:2020:LEU:CD2	1:A:2025:LEU:HD11	1.70	1.20
1:D:1652:LYS:HD2	1:D:1652:LYS:O	1.39	1.20
1:D:2065:LYS:NZ	1:D:2066:GLN:OE1	1.76	1.18
1:B:2506:ILE:O	1:B:2510:ASN:OD1	1.62	1.17
1:C:1110:ILE:CD1	1:C:1182:MET:HE3	1.73	1.17
1:D:71:TYR:CE1	1:D:75:LYS:HE2	1.79	1.17
1:B:2329:THR:CG2	1:B:2343:ILE:CG2	2.20	1.17
1:C:1232:LEU:HD22	1:C:1246:LEU:HD11	1.24	1.16
1:B:755:LEU:HD12	1:B:759:LEU:HD21	1.25	1.16
1:B:1221:MET:CE	1:B:1222:MET:HE3	1.75	1.15
1:D:866:LEU:O	1:D:870:LEU:CD2	1.95	1.15
1:B:2497:ASP:C	1:C:2471:ARG:NH2	1.99	1.15
1:B:138:ARG:NH1	1:C:1288:HIS:NE2	1.76	1.15
1:B:1994:ASP:OD1	1:B:2049:VAL:CG2	1.95	1.15
1:B:1975:LEU:HD21	1:B:2020:LEU:CD1	1.77	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1255:THR:CG2	1:D:1260:GLU:OE2	1.95	1.14
1:B:1183:CYS:O	1:B:1193:GLN:CD	1.86	1.14
1:B:1235:PHE:CE1	1:B:1242:ASN:CG	2.21	1.13
1:B:1975:LEU:HD21	1:B:2020:LEU:HD13	1.13	1.13
1:C:741:LEU:HD13	1:C:783:HIS:NE2	1.64	1.13
1:C:871:ILE:CD1	1:C:974:ILE:HD13	1.78	1.13
1:B:1235:PHE:O	1:B:1235:PHE:HD1	1.30	1.12
1:D:1973:LEU:HD11	1:D:1992:LEU:CD2	1.77	1.12
1:B:1235:PHE:CE1	1:B:1242:ASN:ND2	2.17	1.12
1:B:1322:MET:HE1	1:B:1386:LYS:HG2	1.31	1.12
1:B:1426:VAL:O	1:B:1428:MET:HE2	1.46	1.12
1:B:2557:GLU:OE2	1:B:2561:LEU:HD12	1.46	1.11
1:C:2023:GLN:OE1	1:C:2023:GLN:O	1.69	1.11
1:B:2497:ASP:HA	1:C:2471:ARG:NH2	1.60	1.11
1:B:1235:PHE:HE1	1:B:1242:ASN:CG	1.55	1.10
1:C:158:GLU:CD	1:C:161:TRP:CZ3	2.24	1.10
1:C:1286:PHE:CE2	1:C:1302:PHE:CE1	2.40	1.10
1:C:2460:MET:CE	1:C:2463:VAL:HG11	1.82	1.10
1:B:2598:ASN:OD1	1:B:2600:ASP:CG	1.90	1.10
1:D:2550:ASN:O	1:D:2550:ASN:OD1	1.68	1.10
1:C:1322:MET:HE1	1:C:1386:LYS:HG2	1.25	1.09
1:C:2474:GLY:O	1:D:2471:ARG:NH1	1.85	1.09
1:B:2371:LEU:HD13	1:C:2355:LEU:HB2	1.19	1.09
1:C:1044:MET:SD	1:C:1045:LEU:CD1	2.40	1.09
1:C:1286:PHE:CE2	1:C:1302:PHE:CD1	2.40	1.09
1:D:452:LEU:HD21	1:D:475:LEU:HD23	1.17	1.09
1:A:964:VAL:HG12	1:A:968:LYS:HZ2	1.17	1.08
1:A:1288:HIS:CD2	1:D:138:ARG:NH1	2.21	1.08
1:B:138:ARG:NH1	1:C:1288:HIS:CD2	2.20	1.08
1:B:2329:THR:HG21	1:B:2343:ILE:HG22	1.32	1.08
1:D:2213:VAL:O	1:D:2217:ILE:HG12	1.53	1.08
1:B:695:THR:HG22	1:B:705:GLU:HG3	1.35	1.08
1:B:1426:VAL:O	1:B:1428:MET:CE	2.01	1.08
1:B:1780:LYS:HA	1:B:1780:LYS:HE3	1.09	1.08
1:C:2580:LYS:HA	1:C:2583:TYR:CD2	1.88	1.08
1:D:255:ASP:OD1	1:D:256:GLU:N	1.85	1.08
1:D:760:ILE:HG22	1:D:764:MET:HE2	1.31	1.08
1:B:138:ARG:NH2	1:C:1288:HIS:HE1	1.25	1.08
1:B:617:THR:O	1:B:621:LEU:HD23	1.53	1.08
1:B:2020:LEU:HD11	1:B:2025:LEU:HD13	1.26	1.08
1:D:2124:ILE:HD11	1:D:2571:PHE:CD1	1.89	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2329:THR:HG21	1:D:2343:ILE:HG23	1.29	1.07
1:B:2133:MET:HG2	1:B:2608:MET:SD	1.94	1.07
1:A:2355:LEU:HB2	1:D:2371:LEU:HD23	1.32	1.07
1:C:144:GLU:CD	1:C:199:TYR:CE1	2.28	1.07
1:C:741:LEU:CD1	1:C:783:HIS:NE2	2.18	1.07
1:D:2020:LEU:HD11	1:D:2025:LEU:HD13	1.36	1.07
1:D:2058:LEU:HD23	1:D:2071:LEU:HD13	1.29	1.07
1:A:2471:ARG:HD2	1:D:2497:ASP:OD2	1.54	1.07
1:D:2010:SER:HB3	1:D:2063:HIS:CE1	1.89	1.07
1:B:754:GLN:HG2	1:B:755:LEU:CD2	1.85	1.07
1:B:866:LEU:O	1:B:870:LEU:HG	1.54	1.07
1:C:1286:PHE:HE2	1:C:1302:PHE:CE1	1.72	1.07
1:C:1654:LEU:HD22	1:C:1661:LEU:HD21	1.23	1.06
1:D:1881:CYS:SG	1:D:1889:GLN:CG	2.42	1.06
1:D:1648:ILE:CD1	1:D:1731:GLU:HB3	1.86	1.06
1:C:1527:ARG:O	1:C:1531:MET:HE2	1.55	1.06
1:A:2355:LEU:HB3	1:D:2371:LEU:HD21	1.32	1.06
1:B:1975:LEU:CD2	1:B:2020:LEU:HD13	1.85	1.06
1:D:866:LEU:O	1:D:870:LEU:HD23	1.53	1.06
1:D:2543:LEU:CD1	1:D:2605:MET:HA	1.86	1.06
1:A:7:PHE:CE2	1:B:374:LEU:HD12	1.92	1.05
1:B:755:LEU:HD12	1:B:759:LEU:HD22	1.34	1.05
1:C:7:PHE:CE2	1:D:374:LEU:HD12	1.91	1.05
1:C:1110:ILE:HD11	1:C:1182:MET:HE3	1.07	1.05
1:A:2020:LEU:CD1	1:A:2025:LEU:CD1	2.34	1.05
1:B:605:LEU:HD12	1:B:609:HIS:CE1	1.92	1.04
1:B:2155:LEU:HD22	1:B:2178:LEU:HD21	1.36	1.04
1:D:968:LYS:O	1:D:972:LEU:CD1	2.05	1.04
1:A:2020:LEU:HD21	1:A:2025:LEU:CD1	1.87	1.04
1:B:1221:MET:CE	1:B:1222:MET:CE	2.34	1.04
1:C:2020:LEU:CD1	1:C:2025:LEU:CD1	2.35	1.04
1:D:605:LEU:CD1	1:D:609:HIS:CE1	2.41	1.04
1:C:1062:LEU:HD22	1:C:1070:LEU:HD11	1.38	1.03
1:C:2020:LEU:HD21	1:C:2025:LEU:CD1	1.87	1.03
1:C:2020:LEU:HD21	1:C:2025:LEU:HD11	1.06	1.03
1:D:605:LEU:HD12	1:D:609:HIS:CE1	1.92	1.03
1:D:1982:CYS:SG	1:D:1983:LYS:NZ	2.30	1.03
1:C:158:GLU:OE2	1:C:161:TRP:CH2	2.11	1.03
1:C:2020:LEU:HD11	1:C:2025:LEU:HD12	1.03	1.03
1:C:2580:LYS:HA	1:C:2583:TYR:CE2	1.94	1.03
1:B:2160:GLU:OE1	1:B:2170:ASP:OD2	1.72	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2020:LEU:HD21	1:A:2025:LEU:HD11	1.06	1.03
1:C:1593:GLU:OE2	1:C:1597:ASP:OD2	1.77	1.03
1:C:1654:LEU:CD2	1:C:1661:LEU:CD2	2.37	1.02
1:D:2049:VAL:O	1:D:2053:ILE:HG13	1.59	1.02
1:B:2571:PHE:CE2	1:B:2590:VAL:HG11	1.94	1.02
1:D:1881:CYS:SG	1:D:1889:GLN:HG3	2.00	1.02
1:D:1973:LEU:HD11	1:D:1992:LEU:HD21	1.05	1.02
1:D:745:TYR:OH	1:D:789:ASP:HB2	1.59	1.01
1:D:854:GLU:HA	1:D:857:ASN:OD1	1.58	1.01
1:B:605:LEU:CD1	1:B:609:HIS:CE1	2.42	1.01
1:B:256:GLU:OE2	1:B:259:GLY:N	1.93	1.01
1:C:398:ILE:HD13	1:C:419:THR:HG22	1.38	1.01
1:B:1780:LYS:HE3	1:B:1780:LYS:CA	1.87	1.01
1:A:374:LEU:HD12	1:D:7:PHE:CE2	1.95	1.01
1:A:2020:LEU:HD11	1:A:2025:LEU:HD12	1.03	1.01
1:A:2355:LEU:CA	1:D:2371:LEU:CD2	2.38	1.01
1:B:2329:THR:CG2	1:B:2343:ILE:HG22	1.88	1.01
1:C:2460:MET:HE2	1:C:2460:MET:HA	1.39	1.01
1:D:452:LEU:CD2	1:D:475:LEU:HD23	1.90	1.00
1:D:2222:PHE:CE2	1:D:2278:ILE:HD11	1.95	1.00
1:B:138:ARG:NH1	1:C:1288:HIS:ND1	2.10	1.00
1:B:1221:MET:HE3	1:B:1222:MET:SD	2.01	1.00
1:C:1589:LYS:HD3	1:C:1589:LYS:N	1.75	1.00
1:D:1983:LYS:HA	1:D:1983:LYS:HE3	1.39	1.00
1:D:2222:PHE:CD2	1:D:2278:ILE:HD11	1.97	1.00
1:B:7:PHE:CE2	1:C:374:LEU:HD12	1.95	0.99
1:B:735:LEU:HD21	1:B:739:MET:CE	1.92	0.99
1:C:734:LYS:HE2	1:C:926:THR:HG23	1.39	0.99
1:A:964:VAL:HG12	1:A:968:LYS:NZ	1.75	0.99
1:D:1973:LEU:CD1	1:D:1992:LEU:HD21	1.92	0.99
1:B:1672:MET:SD	1:B:1728:LEU:HD21	2.02	0.99
1:A:1288:HIS:HE1	1:D:138:ARG:NH2	1.25	0.99
1:C:474:GLN:O	1:C:478:ASP:OD2	1.81	0.99
1:B:755:LEU:CD1	1:B:759:LEU:CD2	2.40	0.98
1:D:760:ILE:HG22	1:D:764:MET:CE	1.93	0.98
1:A:1288:HIS:ND1	1:D:138:ARG:NH1	2.09	0.98
1:B:1221:MET:O	1:B:1221:MET:SD	2.22	0.98
1:A:2355:LEU:HB2	1:D:2371:LEU:CG	1.94	0.98
1:D:1645:SER:N	1:D:1731:GLU:OE2	1.96	0.98
1:C:1211:GLN:OE1	1:C:1211:GLN:N	1.97	0.98
1:C:1654:LEU:HD22	1:C:1661:LEU:HD23	1.44	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1288:HIS:HE2	1:D:138:ARG:CZ	1.70	0.98
1:A:2355:LEU:CA	1:D:2371:LEU:HD23	1.92	0.98
1:B:315:LEU:HD11	1:B:354:LEU:HD22	1.44	0.98
1:C:840:TYR:CD2	1:C:863:VAL:CG2	2.45	0.97
1:C:2460:MET:HE2	1:C:2463:VAL:HG11	1.44	0.97
1:D:1735:LYS:HA	1:D:1738:CYS:SG	2.04	0.97
1:B:1652:LYS:HD2	1:B:1652:LYS:O	1.64	0.97
1:C:878:PHE:O	1:C:882:LEU:HD22	1.64	0.97
1:D:2124:ILE:CD1	1:D:2571:PHE:CD1	2.46	0.97
1:B:694:LEU:HD12	1:B:711:LEU:HD13	1.43	0.97
1:C:2307:PHE:HA	1:C:2314:MET:SD	2.04	0.97
1:B:2497:ASP:CG	1:C:2471:ARG:NH1	2.17	0.97
1:B:1235:PHE:O	1:B:1235:PHE:CD1	2.18	0.97
1:B:1235:PHE:CD1	1:B:1242:ASN:ND2	2.33	0.97
1:C:1110:ILE:CD1	1:C:1182:MET:HE1	1.93	0.97
1:D:641:ASN:O	1:D:641:ASN:ND2	1.98	0.97
1:D:1221:MET:HE1	1:D:1225:LEU:CD1	1.94	0.97
1:C:1963:GLU:N	1:C:1963:GLU:OE2	1.96	0.96
1:D:1221:MET:CE	1:D:1225:LEU:CD1	2.44	0.96
1:D:1982:CYS:SG	1:D:1983:LYS:HD2	2.05	0.96
1:D:1979:SER:O	1:D:1983:LYS:CD	2.12	0.96
1:D:871:ILE:CD1	1:D:974:ILE:HD13	1.94	0.96
1:D:2058:LEU:CD2	1:D:2071:LEU:HD13	1.94	0.96
1:D:1239:ASN:OD1	1:D:1242:ASN:CB	2.14	0.96
1:C:734:LYS:CE	1:C:926:THR:HG23	1.95	0.96
1:D:2222:PHE:CD2	1:D:2278:ILE:CD1	2.48	0.96
1:C:556:CYS:O	1:C:559:VAL:HG12	1.63	0.95
1:C:840:TYR:HD2	1:C:863:VAL:CG2	1.79	0.95
1:C:2513:PHE:HD2	1:D:2513:PHE:CZ	1.83	0.95
1:D:452:LEU:HD21	1:D:475:LEU:CD2	1.95	0.95
1:D:203:ASP:OD1	1:D:204:ASN:N	2.00	0.95
1:A:2471:ARG:CD	1:D:2497:ASP:OD2	2.14	0.95
1:B:1221:MET:CE	1:B:1222:MET:SD	2.54	0.95
1:D:968:LYS:O	1:D:972:LEU:HD13	1.66	0.95
1:B:2013:ALA:O	1:B:2017:LEU:HG	1.66	0.95
1:B:2222:PHE:CD1	1:B:2278:ILE:HD11	2.01	0.95
1:D:1054:MET:HG3	1:D:1057:ARG:NH2	1.82	0.95
1:D:2010:SER:CB	1:D:2063:HIS:ND1	2.28	0.95
1:A:2513:PHE:HD2	1:B:2513:PHE:CZ	1.84	0.94
1:B:1994:ASP:CG	1:B:2049:VAL:CG2	2.35	0.94
1:C:982:ARG:HH21	1:C:1047:VAL:HG13	1.31	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:734:LYS:CD	1:C:926:THR:HG23	1.98	0.94
1:C:855:GLU:OE1	1:C:858:LYS:HE3	1.68	0.94
1:B:2569:LEU:O	1:B:2573:VAL:HG23	1.66	0.94
1:B:2598:ASN:OD1	1:B:2600:ASP:OD1	1.86	0.94
1:D:1652:LYS:HD2	1:D:1652:LYS:C	1.87	0.94
1:D:2222:PHE:HD2	1:D:2278:ILE:CD1	1.80	0.94
1:B:1182:MET:SD	1:B:1182:MET:O	2.26	0.94
1:D:1255:THR:HG22	1:D:1260:GLU:CD	1.87	0.94
1:D:2569:LEU:O	1:D:2573:VAL:HG23	1.65	0.94
1:B:2371:LEU:HD13	1:C:2355:LEU:CB	1.97	0.94
1:D:605:LEU:HD12	1:D:609:HIS:ND1	1.82	0.94
1:C:652:ILE:O	1:C:656:VAL:HG23	1.68	0.94
1:D:1994:ASP:OD2	1:D:2044:VAL:CG1	2.16	0.94
1:D:1994:ASP:CG	1:D:2049:VAL:CG2	2.36	0.94
1:D:1187:GLU:N	1:D:1187:GLU:OE2	2.02	0.93
1:D:2124:ILE:CD1	1:D:2571:PHE:HD1	1.79	0.93
1:D:1255:THR:HG22	1:D:1260:GLU:OE1	1.65	0.93
1:B:2029:ILE:HD11	1:B:2054:TYR:HA	1.50	0.93
1:B:2397:LEU:HD12	1:B:2479:ILE:CG2	1.99	0.93
1:D:452:LEU:CD2	1:D:475:LEU:CD2	2.47	0.93
1:A:2381:TYR:HE2	1:B:2342:SER:HB2	1.31	0.93
1:C:1654:LEU:CD2	1:C:1661:LEU:HD21	1.95	0.93
1:D:1179:LEU:HD13	1:D:1182:MET:HE1	1.49	0.93
1:B:1235:PHE:HE1	1:B:1242:ASN:ND2	1.60	0.93
1:C:1784:ARG:O	1:C:1788:VAL:HG23	1.66	0.93
1:A:878:PHE:HE2	1:A:882:LEU:HD11	1.34	0.93
1:D:1179:LEU:HA	1:D:1182:MET:HE3	1.50	0.93
1:D:1655:MET:C	1:D:1655:MET:HE2	1.90	0.93
1:C:982:ARG:NH2	1:C:1047:VAL:HG13	1.83	0.93
1:C:1527:ARG:O	1:C:1531:MET:CE	2.17	0.93
1:D:2329:THR:CG2	1:D:2343:ILE:HG21	1.96	0.93
1:D:2058:LEU:HD23	1:D:2071:LEU:CD1	1.98	0.93
1:D:2020:LEU:HD11	1:D:2025:LEU:CD1	2.00	0.92
1:B:605:LEU:HD12	1:B:609:HIS:ND1	1.85	0.92
1:C:1207:LEU:O	1:C:1211:GLN:OE1	1.86	0.92
1:D:642:HIS:O	1:D:643:ILE:HD13	1.68	0.92
1:C:871:ILE:HD13	1:C:974:ILE:HD13	1.51	0.92
1:C:1654:LEU:HD13	1:C:1661:LEU:HD23	1.50	0.92
1:B:135:VAL:CG2	1:B:212:SER:OG	2.18	0.92
1:B:695:THR:CG2	1:B:705:GLU:HG3	2.00	0.92
1:C:1527:ARG:C	1:C:1531:MET:CE	2.37	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2312:LYS:O	1:D:2316:MET:HG2	1.69	0.92
1:D:2397:LEU:HD12	1:D:2479:ILE:CG2	1.99	0.92
1:D:866:LEU:O	1:D:870:LEU:HD22	1.68	0.91
1:D:2029:ILE:HD11	1:D:2054:TYR:HA	1.50	0.91
1:D:2329:THR:CG2	1:D:2343:ILE:HG22	1.98	0.91
1:A:2355:LEU:CB	1:D:2371:LEU:HD23	1.88	0.91
1:D:1881:CYS:SG	1:D:1889:GLN:HG2	2.07	0.91
1:B:1600:THR:O	1:B:1604:GLU:HG3	1.70	0.91
1:C:135:VAL:CG2	1:C:212:SER:OG	2.18	0.91
1:C:2051:HIS:CE1	1:C:2139:PRO:HB3	2.05	0.91
1:A:1087:GLU:O	1:A:1091:THR:HG23	1.69	0.91
1:C:854:GLU:OE2	1:C:854:GLU:N	2.04	0.91
1:C:1286:PHE:HE2	1:C:1302:PHE:CZ	1.88	0.91
1:B:138:ARG:CZ	1:C:1288:HIS:HE2	1.69	0.91
1:B:138:ARG:NH1	1:C:1288:HIS:CG	2.39	0.91
1:B:2550:ASN:OD1	1:B:2550:ASN:O	1.88	0.91
1:B:1994:ASP:OD2	1:B:2044:VAL:CG1	2.19	0.91
1:C:144:GLU:OE2	1:C:199:TYR:HE1	1.52	0.91
1:B:303:LEU:CD1	1:B:366:LEU:HD13	2.00	0.91
1:B:1322:MET:O	1:B:1322:MET:HE3	1.71	0.91
1:D:2397:LEU:CD1	1:D:2479:ILE:HG21	2.01	0.91
1:B:2142:GLY:O	1:B:2145:GLN:HG3	1.71	0.90
1:B:303:LEU:HD13	1:B:366:LEU:HD13	1.53	0.90
1:B:755:LEU:CD1	1:B:759:LEU:HD21	1.97	0.90
1:C:811:THR:OG1	1:C:814:ASP:OD1	1.88	0.90
1:C:2460:MET:HE2	1:C:2463:VAL:CG1	2.02	0.90
1:B:1175:ILE:O	1:B:1179:LEU:HG	1.72	0.90
1:B:1221:MET:SD	1:B:1221:MET:C	2.50	0.90
1:B:1780:LYS:HA	1:B:1780:LYS:CE	1.90	0.90
1:D:760:ILE:CD1	1:D:785:HIS:HE1	1.84	0.90
1:D:2329:THR:HG21	1:D:2343:ILE:HG22	1.52	0.90
1:B:791:GLN:NE2	1:B:791:GLN:H	1.69	0.90
1:B:2329:THR:HG21	1:B:2343:ILE:HG23	1.49	0.90
1:C:2011:GLU:OE2	1:C:2011:GLU:N	2.05	0.90
1:D:1193:GLN:O	1:D:1197:LEU:HD12	1.72	0.90
1:C:2481:ARG:HH22	1:D:2402:LEU:HD11	1.37	0.89
1:D:203:ASP:OD1	1:D:204:ASN:OD1	1.91	0.89
1:B:1183:CYS:C	1:B:1193:GLN:OE1	2.10	0.89
1:B:2051:HIS:O	1:B:2055:ILE:HG13	1.71	0.89
1:B:2397:LEU:CD1	1:B:2479:ILE:HG21	2.01	0.89
1:A:1288:HIS:CG	1:D:138:ARG:NH1	2.39	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1224:ILE:O	1:C:1228:THR:HG23	1.73	0.89
1:B:735:LEU:HD21	1:B:739:MET:HE2	1.52	0.89
1:D:1179:LEU:HD13	1:D:1182:MET:CE	2.03	0.89
1:B:223:LEU:HD21	1:B:226:GLN:HG2	1.55	0.89
1:B:2329:THR:CG2	1:B:2343:ILE:HG21	2.01	0.89
1:A:665:LEU:CD2	1:A:732:GLN:NE2	2.36	0.89
1:C:1322:MET:HE1	1:C:1386:LYS:CG	2.02	0.89
1:C:2023:GLN:OE1	1:C:2027:ASP:CG	2.12	0.89
1:C:523:LYS:NZ	1:C:580:MET:SD	2.44	0.88
1:C:1625:GLU:OE2	1:C:1625:GLU:N	2.06	0.88
1:C:2501:PHE:HB2	1:D:2471:ARG:HH12	1.08	0.88
1:D:2397:LEU:CD1	1:D:2479:ILE:CG2	2.52	0.88
1:B:2383:PHE:CD2	1:B:2500:PHE:HD2	1.91	0.88
1:C:598:LEU:HD21	1:C:605:LEU:HD21	1.55	0.88
1:C:1527:ARG:C	1:C:1531:MET:HE2	1.92	0.88
1:B:1644:LEU:O	1:B:1648:ILE:HG13	1.74	0.88
1:C:1654:LEU:CD2	1:C:1661:LEU:HD23	2.01	0.88
1:C:1970:ILE:HD13	1:C:1999:LEU:CD2	2.03	0.88
1:C:158:GLU:OE2	1:C:161:TRP:HH2	1.53	0.88
1:D:791:GLN:NE2	1:D:791:GLN:H	1.70	0.88
1:D:868:HIS:NE2	1:D:973:GLU:OE2	2.05	0.88
1:D:1221:MET:HE1	1:D:1225:LEU:HD12	1.54	0.87
1:D:1655:MET:SD	1:D:1656:GLU:N	2.47	0.87
1:D:1979:SER:O	1:D:1983:LYS:HD2	1.74	0.87
1:A:2222:PHE:CD1	1:A:2278:ILE:HD11	2.10	0.87
1:D:1994:ASP:CG	1:D:2049:VAL:HG22	1.95	0.87
1:B:256:GLU:OE2	1:B:260:LYS:N	2.07	0.87
1:B:2397:LEU:CD1	1:B:2479:ILE:CG2	2.52	0.87
1:C:2513:PHE:CD2	1:D:2513:PHE:CZ	2.61	0.87
1:B:1033:GLU:OE2	1:B:1682:ARG:NH2	2.07	0.87
1:A:878:PHE:CE2	1:A:882:LEU:HD11	2.09	0.87
1:B:95:HIS:O	1:B:99:MET:HG2	1.74	0.87
1:B:495:ASP:OD1	1:B:495:ASP:O	1.93	0.87
1:A:2513:PHE:CD2	1:B:2513:PHE:CZ	2.63	0.86
1:B:2571:PHE:HE2	1:B:2590:VAL:HG11	1.40	0.86
1:C:2460:MET:HE1	1:C:2463:VAL:HG11	1.55	0.86
1:D:71:TYR:CE1	1:D:75:LYS:CE	2.58	0.86
1:B:303:LEU:C	1:B:304:TYR:HD1	1.76	0.86
1:B:1994:ASP:CG	1:B:2049:VAL:HG22	1.94	0.86
1:D:2131:ARG:O	1:D:2131:ARG:HG2	1.75	0.86
1:D:2398:GLU:N	1:D:2398:GLU:OE2	2.08	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:889:LEU:HD21	1:B:975:LEU:CD1	2.05	0.86
1:D:1943:THR:CG2	1:D:1947:TYR:CE2	2.59	0.86
1:C:144:GLU:CD	1:C:199:TYR:HE1	1.72	0.86
1:C:453:ALA:O	1:C:457:GLU:HG3	1.74	0.86
1:C:2037:GLU:OE2	1:C:2037:GLU:N	2.08	0.86
1:D:1644:LEU:O	1:D:1648:ILE:HG13	1.74	0.86
1:C:598:LEU:CD2	1:C:605:LEU:CD2	2.54	0.86
1:D:968:LYS:O	1:D:972:LEU:HD12	1.76	0.86
1:C:2460:MET:CE	1:C:2463:VAL:CG1	2.53	0.86
1:D:927:MET:O	1:D:927:MET:SD	2.34	0.86
1:C:840:TYR:CE2	1:C:863:VAL:HG21	2.08	0.86
1:D:2349:ILE:HG12	1:D:2355:LEU:CD2	2.06	0.86
1:C:631:LEU:HD12	1:C:735:LEU:CD2	2.04	0.86
1:D:1221:MET:SD	1:D:1221:MET:C	2.54	0.86
1:B:1648:ILE:CD1	1:B:1731:GLU:HB3	2.05	0.86
1:C:158:GLU:CD	1:C:161:TRP:CH2	2.46	0.86
1:B:1333:VAL:CG1	1:B:1335:PHE:CE1	2.59	0.85
1:B:256:GLU:OE2	1:B:259:GLY:CA	2.23	0.85
1:C:135:VAL:HG23	1:C:212:SER:OG	1.76	0.85
1:D:2349:ILE:HG12	1:D:2355:LEU:HD21	1.58	0.85
1:B:2145:GLN:NE2	1:B:2146:PHE:CE2	2.43	0.85
1:D:1110:ILE:CD1	1:D:1182:MET:SD	2.62	0.85
1:D:760:ILE:HD12	1:D:785:HIS:CE1	2.12	0.85
1:B:2029:ILE:CD1	1:B:2054:TYR:HA	2.07	0.85
1:D:2020:LEU:HD21	1:D:2025:LEU:CD1	2.07	0.85
1:C:2381:TYR:HE2	1:D:2342:SER:HB2	1.39	0.85
1:B:854:GLU:N	1:B:854:GLU:OE2	2.09	0.85
1:C:1232:LEU:HD22	1:C:1246:LEU:CD1	2.07	0.85
1:D:1221:MET:CE	1:D:1225:LEU:HD13	2.07	0.84
1:B:868:HIS:HE1	1:B:973:GLU:OE1	1.60	0.84
1:C:1654:LEU:CD1	1:C:1661:LEU:HD23	2.07	0.84
1:C:2020:LEU:CD1	1:C:2025:LEU:HD12	1.98	0.84
1:B:2043:GLU:OE2	1:B:2043:GLU:C	2.16	0.84
1:C:606:LEU:CD1	1:C:648:THR:HG21	2.07	0.84
1:C:2156:PHE:CE2	1:C:2534:LEU:HD21	2.13	0.84
1:C:2501:PHE:HB2	1:D:2471:ARG:CZ	2.07	0.84
1:D:1973:LEU:HD21	1:D:1992:LEU:HD11	0.84	0.84
1:A:1100:SER:OG	1:A:1102:GLN:OE1	1.96	0.84
1:B:1333:VAL:HG13	1:B:1335:PHE:HE1	1.42	0.84
1:C:871:ILE:HD12	1:C:974:ILE:HD13	1.59	0.84
1:C:1230:GLN:C	1:C:1230:GLN:OE1	2.16	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2029:ILE:CD1	1:D:2054:TYR:HA	2.07	0.84
1:C:631:LEU:HD12	1:C:735:LEU:HD23	1.60	0.84
1:C:1322:MET:O	1:C:1322:MET:HE3	1.78	0.84
1:D:1648:ILE:HD11	1:D:1731:GLU:HB3	1.59	0.84
1:C:1589:LYS:HD3	1:C:1589:LYS:H	1.39	0.84
1:C:868:HIS:NE2	1:C:872:TYR:CE1	2.45	0.84
1:D:1943:THR:CG2	1:D:1947:TYR:CZ	2.61	0.84
1:B:1100:SER:OG	1:B:1102:GLN:OE1	1.96	0.83
1:B:1877:LEU:HD22	1:B:1892:LEU:HD11	1.59	0.83
1:D:320:ASN:OD1	1:D:321:PRO:HD2	1.77	0.83
1:B:1994:ASP:CG	1:B:2049:VAL:HG21	1.98	0.83
1:D:1255:THR:HG22	1:D:1260:GLU:OE2	1.74	0.83
1:A:2381:TYR:CE2	1:B:2342:SER:HB2	2.12	0.83
1:B:2029:ILE:HG12	1:B:2053:ILE:HG23	1.61	0.83
1:A:2471:ARG:HH22	1:D:2477:GLY:C	1.82	0.83
1:B:2131:ARG:O	1:B:2131:ARG:HG2	1.75	0.83
1:C:598:LEU:HD23	1:C:605:LEU:HD23	1.61	0.83
1:B:2222:PHE:HD1	1:B:2278:ILE:CD1	1.92	0.83
1:B:754:GLN:HG2	1:B:755:LEU:HD22	1.58	0.83
1:B:135:VAL:HG23	1:B:212:SER:OG	1.76	0.83
1:B:2160:GLU:N	1:B:2160:GLU:OE2	2.12	0.83
1:D:1994:ASP:CG	1:D:2049:VAL:HG21	1.98	0.83
1:C:1100:SER:OG	1:C:1102:GLN:OE1	1.96	0.82
1:C:2513:PHE:HD2	1:D:2513:PHE:CE2	1.95	0.82
1:B:265:LEU:HG	1:B:417:LEU:HD11	1.61	0.82
1:D:1943:THR:HG22	1:D:1947:TYR:CZ	2.14	0.82
1:D:2329:THR:HG23	1:D:2343:ILE:CG2	2.09	0.82
1:B:656:VAL:HG11	1:B:739:MET:HE3	1.62	0.82
1:C:1448:MET:SD	1:C:1508:LEU:HD13	2.20	0.82
1:C:2307:PHE:CA	1:C:2314:MET:SD	2.66	0.82
1:D:2543:LEU:HD13	1:D:2605:MET:HA	1.59	0.82
1:B:1322:MET:HE1	1:B:1386:LYS:CG	2.09	0.82
1:B:1734:THR:OG1	1:B:1772:PHE:CE2	2.31	0.82
1:B:526:PHE:CE1	1:B:538:LEU:HD23	2.15	0.82
1:D:1100:SER:OG	1:D:1102:GLN:OE1	1.96	0.82
1:B:2222:PHE:CE1	1:B:2278:ILE:HD11	2.14	0.82
1:C:354:LEU:HD11	1:C:398:ILE:HD12	1.60	0.82
1:B:1221:MET:HE1	1:B:1222:MET:HE3	0.82	0.82
1:C:598:LEU:HD23	1:C:605:LEU:CD2	2.09	0.82
1:B:2155:LEU:CD2	1:B:2178:LEU:HD11	2.09	0.82
1:A:2020:LEU:CD1	1:A:2025:LEU:HD12	1.98	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1232:LEU:CD2	1:C:1246:LEU:HD11	2.08	0.81
1:A:2471:ARG:HD2	1:D:2497:ASP:CG	1.96	0.81
1:C:1110:ILE:HD11	1:C:1182:MET:SD	2.20	0.81
1:D:95:HIS:O	1:D:99:MET:HG2	1.79	0.81
1:B:1934:VAL:O	1:B:1938:ILE:HG23	1.79	0.81
1:C:410:GLU:OE2	1:C:410:GLU:N	2.13	0.81
1:C:734:LYS:CD	1:C:926:THR:CG2	2.58	0.81
1:C:1286:PHE:CD2	1:C:1302:PHE:CD1	2.68	0.81
1:D:1877:LEU:HD22	1:D:1892:LEU:HD11	1.60	0.81
1:D:1982:CYS:SG	1:D:1983:LYS:CD	2.69	0.81
1:D:406:ASP:OD2	1:D:414:ARG:NH1	2.13	0.81
1:D:1086:GLN:OE1	1:D:1086:GLN:O	1.97	0.81
1:C:475:LEU:O	1:C:475:LEU:HD12	1.81	0.81
1:C:1060:ILE:HD13	1:C:1643:PHE:CE1	2.16	0.81
1:D:760:ILE:HD12	1:D:785:HIS:HE1	1.46	0.81
1:B:19:GLU:HA	1:B:23:ASN:OD1	1.80	0.80
1:C:622:VAL:HG21	1:C:631:LEU:HD22	1.62	0.80
1:D:1655:MET:CE	1:D:1656:GLU:N	2.44	0.80
1:D:1751:GLN:O	1:D:1754:ILE:HG22	1.81	0.80
1:B:1050:GLU:HG2	1:B:1054:MET:HE3	1.64	0.80
1:A:709:ARG:NH1	1:A:768:MET:SD	2.55	0.80
1:B:2116:TYR:CE1	1:B:2120:HIS:CD2	2.70	0.80
1:B:2497:ASP:O	1:C:2471:ARG:NH2	2.05	0.80
1:D:2124:ILE:HD13	1:D:2571:PHE:HD1	1.46	0.80
1:B:755:LEU:CD1	1:B:759:LEU:HD22	2.07	0.80
1:B:1362:LEU:O	1:B:1366:ILE:HG13	1.82	0.80
1:C:878:PHE:O	1:C:882:LEU:CD2	2.28	0.80
1:C:1054:MET:HE3	1:C:1057:ARG:HH22	1.47	0.80
1:B:2020:LEU:CD1	1:B:2025:LEU:HD13	2.08	0.80
1:B:2169:SER:O	1:B:2173:ASP:OD2	2.00	0.80
1:C:709:ARG:NH1	1:C:768:MET:SD	2.55	0.80
1:D:1125:GLU:HA	1:D:1125:GLU:OE2	1.80	0.80
1:A:2513:PHE:HD2	1:B:2513:PHE:CE2	2.00	0.80
1:B:889:LEU:HD21	1:B:975:LEU:HD11	1.63	0.80
1:C:2481:ARG:CZ	1:D:2402:LEU:HD11	2.12	0.80
1:D:1673:LEU:HD21	1:D:1760:LEU:HD22	1.64	0.80
1:A:92:LYS:HB3	1:B:1924:LEU:HD21	1.63	0.79
1:A:2358:VAL:CG1	1:D:2511:LEU:HD13	2.12	0.79
1:C:144:GLU:OE2	1:C:199:TYR:CE1	2.35	0.79
1:C:1286:PHE:CD2	1:C:1302:PHE:CE1	2.70	0.79
1:B:1251:HIS:CE1	1:B:1252:LEU:HD23	2.17	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2020:LEU:HD11	1:B:2025:LEU:CD1	2.08	0.79
1:D:1963:GLU:OE2	1:D:1963:GLU:HA	1.79	0.79
1:B:605:LEU:HD11	1:B:609:HIS:CE1	2.17	0.79
1:B:1235:PHE:HE1	1:B:1242:ASN:OD1	1.64	0.79
1:D:1999:LEU:CD1	1:D:2003:LEU:HD21	2.13	0.79
1:C:2511:LEU:HD21	1:D:2362:VAL:CG2	2.12	0.79
1:D:1886:ARG:O	1:D:1890:ASN:OD1	2.00	0.79
1:D:2314:MET:HE2	1:D:2320:PHE:HE2	1.47	0.79
1:B:578:PHE:CZ	1:B:595:ILE:HD11	2.18	0.79
1:B:709:ARG:NH1	1:B:768:MET:SD	2.55	0.79
1:D:2020:LEU:HD21	1:D:2025:LEU:HD11	1.65	0.79
1:D:32:VAL:CG1	1:D:451:MET:HE3	2.13	0.79
1:D:709:ARG:O	1:D:713:GLN:CD	2.21	0.79
1:D:1999:LEU:HD12	1:D:2003:LEU:HD21	1.65	0.79
1:B:1221:MET:SD	1:B:1225:LEU:HD13	2.23	0.78
1:B:1333:VAL:HG13	1:B:1335:PHE:CE1	2.17	0.78
1:D:1983:LYS:HD2	1:D:1983:LYS:N	1.98	0.78
1:C:734:LYS:HE2	1:C:926:THR:CG2	2.13	0.78
1:D:763:CYS:O	1:D:769:LEU:HD12	1.84	0.78
1:B:2116:TYR:CE1	1:B:2120:HIS:HD2	2.01	0.78
1:B:2222:PHE:CD1	1:B:2278:ILE:CD1	2.64	0.78
1:B:615:VAL:O	1:B:619:VAL:HG12	1.84	0.78
1:B:1426:VAL:C	1:B:1428:MET:CE	2.50	0.78
1:D:605:LEU:HD11	1:D:609:HIS:CE1	2.17	0.78
1:C:878:PHE:CE1	1:C:882:LEU:HD21	2.19	0.78
1:D:760:ILE:CD1	1:D:785:HIS:CE1	2.67	0.78
1:D:2316:MET:HA	1:D:2316:MET:HE3	1.65	0.78
1:A:2467:ASN:ND2	1:D:2497:ASP:OD2	2.16	0.78
1:B:1626:LEU:HB2	1:B:1695:LEU:CD2	2.14	0.78
1:B:2155:LEU:CD2	1:B:2178:LEU:HD21	2.13	0.78
1:B:730:ARG:NE	1:B:772:ASP:OD2	2.17	0.78
1:C:92:LYS:HB3	1:D:1924:LEU:HD21	1.64	0.78
1:C:598:LEU:CD2	1:C:605:LEU:HD23	2.14	0.78
1:C:1110:ILE:HD13	1:C:1182:MET:HE1	1.65	0.78
1:C:2178:LEU:O	1:C:2182:MET:HG3	1.83	0.78
1:D:2020:LEU:CD1	1:D:2025:LEU:HD13	2.13	0.78
1:D:1934:VAL:O	1:D:1938:ILE:HG23	1.84	0.77
1:C:730:ARG:NE	1:C:772:ASP:OD2	2.17	0.77
1:C:734:LYS:HE3	1:C:926:THR:OG1	1.83	0.77
1:D:2329:THR:HG23	1:D:2343:ILE:HG21	1.66	0.77
1:D:2314:MET:HE2	1:D:2320:PHE:CE2	2.20	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2355:LEU:N	1:D:2371:LEU:CD2	2.48	0.77
1:B:2147:LEU:HB2	1:B:2182:MET:HE3	1.67	0.77
1:A:665:LEU:HD23	1:A:732:GLN:NE2	2.00	0.77
1:A:2020:LEU:CG	1:A:2025:LEU:HD11	2.15	0.77
1:B:1393:LEU:HD21	1:B:1421:TYR:CG	2.19	0.77
1:B:695:THR:HG22	1:B:705:GLU:CG	2.15	0.77
1:C:2020:LEU:CG	1:C:2025:LEU:HD11	2.15	0.77
1:B:143:LEU:HB2	1:B:209:GLU:OE1	1.85	0.76
1:D:885:THR:OG1	1:D:975:LEU:HD22	1.85	0.76
1:B:968:LYS:O	1:B:972:LEU:HD13	1.85	0.76
1:D:178:VAL:HB	1:D:181:ASP:OD2	1.84	0.76
1:C:2480:LEU:HD13	1:C:2493:ARG:NH1	2.00	0.76
1:B:1630:GLU:OE1	1:B:1635:TYR:CE1	2.37	0.76
1:C:2381:TYR:CE2	1:D:2342:SER:HB2	2.20	0.76
1:B:2557:GLU:OE2	1:B:2561:LEU:CD1	2.31	0.76
1:C:598:LEU:CD2	1:C:605:LEU:HD21	2.14	0.76
1:D:615:VAL:O	1:D:619:VAL:HG12	1.84	0.76
1:C:2375:LEU:CD2	1:D:2359:ILE:HD11	2.16	0.76
1:D:2397:LEU:HD12	1:D:2479:ILE:HG23	1.67	0.76
1:A:811:THR:OG1	1:A:814:ASP:OD2	2.02	0.76
1:D:2071:LEU:O	1:D:2114:LEU:HD23	1.84	0.76
1:A:2513:PHE:CD2	1:B:2513:PHE:HZ	2.02	0.76
1:C:2513:PHE:CD2	1:D:2513:PHE:CE2	2.73	0.76
1:B:2545:ARG:HB3	1:B:2545:ARG:NH1	2.00	0.76
1:C:158:GLU:OE2	1:C:161:TRP:CZ3	2.35	0.76
1:A:2511:LEU:HD21	1:B:2362:VAL:CG2	2.15	0.76
1:B:2043:GLU:OE2	1:B:2043:GLU:O	2.03	0.76
1:D:1655:MET:HE2	1:D:1656:GLU:N	2.00	0.75
1:B:1363:MET:HA	1:B:1366:ILE:HD12	1.67	0.75
1:D:178:VAL:O	1:D:181:ASP:OD2	2.03	0.75
1:A:730:ARG:NE	1:A:772:ASP:OD2	2.17	0.75
1:B:735:LEU:HD21	1:B:739:MET:HE3	1.69	0.75
1:C:868:HIS:CE1	1:C:872:TYR:CE1	2.74	0.75
1:C:1970:ILE:HD13	1:C:1999:LEU:HD21	1.68	0.75
1:C:2020:LEU:CD1	1:C:2025:LEU:HD11	2.16	0.75
1:C:1527:ARG:C	1:C:1531:MET:HE1	2.06	0.75
1:D:1999:LEU:O	1:D:2003:LEU:HG	1.86	0.75
1:A:2059:GLN:OE1	1:A:2062:ARG:NH2	2.18	0.75
1:D:71:TYR:CZ	1:D:75:LYS:HE2	2.20	0.75
1:B:1322:MET:CE	1:B:1386:LYS:CD	2.65	0.75
1:B:2160:GLU:CD	1:B:2170:ASP:OD2	2.24	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2314:MET:HE3	1:D:2320:PHE:CZ	2.22	0.75
1:A:665:LEU:HD22	1:A:732:GLN:NE2	2.02	0.75
1:B:885:THR:O	1:B:889:LEU:HG	1.86	0.75
1:C:1747:GLU:OE1	1:C:1792:ARG:NH2	2.20	0.75
1:C:1876:PHE:CE2	1:C:1880:LEU:HD11	2.22	0.75
1:D:1983:LYS:HE3	1:D:1983:LYS:CA	2.14	0.75
1:B:610:ILE:HD12	1:B:637:LEU:HD21	1.69	0.75
1:B:656:VAL:HB	1:B:739:MET:HE1	1.69	0.75
1:B:2059:GLN:OE1	1:B:2062:ARG:NH2	2.20	0.75
1:C:734:LYS:HE2	1:C:926:THR:HA	1.68	0.75
1:D:1232:LEU:CD1	1:D:1246:LEU:HD13	2.17	0.75
1:B:623:ARG:NH2	1:B:661:ASN:OD1	2.20	0.74
1:B:2513:PHE:HD2	1:C:2513:PHE:CZ	2.04	0.74
1:A:71:TYR:CE2	1:A:94:GLN:HB2	2.22	0.74
1:D:972:LEU:HD21	1:D:1062:LEU:HD13	1.68	0.74
1:A:987:ILE:HD11	1:A:1091:THR:OG1	1.87	0.74
1:B:144:GLU:HG3	1:B:199:TYR:CE1	2.23	0.74
1:B:1626:LEU:HB2	1:B:1695:LEU:HD22	1.69	0.74
1:C:103:GLN:O	1:C:106:THR:HG22	1.87	0.74
1:C:1527:ARG:HB3	1:C:1531:MET:HE1	1.67	0.74
1:D:1735:LYS:HD3	1:D:1775:LEU:HD11	1.67	0.74
1:D:1747:GLU:OE1	1:D:1792:ARG:NH2	2.20	0.74
1:C:2513:PHE:CD2	1:D:2513:PHE:HZ	2.02	0.74
1:D:32:VAL:HG11	1:D:451:MET:HE3	1.69	0.74
1:D:355:VAL:HG22	1:D:356:ALA:N	2.01	0.74
1:C:734:LYS:CE	1:C:926:THR:CG2	2.66	0.74
1:D:741:LEU:HD12	1:D:742:ASP:H	1.52	0.74
1:D:2222:PHE:HD2	1:D:2278:ILE:HD12	1.53	0.74
1:B:2397:LEU:HD12	1:B:2479:ILE:HG23	1.67	0.74
1:C:623:ARG:NH2	1:C:661:ASN:OD1	2.20	0.74
1:D:871:ILE:HD12	1:D:974:ILE:HD13	1.69	0.74
1:D:1221:MET:HE3	1:D:1225:LEU:CD1	2.17	0.74
1:B:1322:MET:CE	1:B:1386:LYS:HG2	2.15	0.74
1:B:2142:GLY:O	1:B:2145:GLN:CG	2.35	0.74
1:B:642:HIS:O	1:B:643:ILE:HD13	1.87	0.74
1:B:2133:MET:CG	1:B:2608:MET:SD	2.74	0.74
1:D:854:GLU:CA	1:D:857:ASN:OD1	2.34	0.74
1:C:868:HIS:CD2	1:C:872:TYR:HE1	2.05	0.74
1:A:623:ARG:NH2	1:A:661:ASN:OD1	2.20	0.74
1:C:2009:ASP:HB2	1:C:2011:GLU:OE2	1.88	0.74
1:C:893:ASP:OD2	1:C:1054:MET:HE2	1.87	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1289:LEU:HD13	1:C:1299:TYR:HE1	1.53	0.73
1:A:1747:GLU:OE1	1:A:1792:ARG:NH2	2.20	0.73
1:B:233:GLU:N	1:B:233:GLU:OE2	2.21	0.73
1:B:2311:TYR:HA	1:B:2314:MET:HE2	1.70	0.73
1:C:2059:GLN:OE1	1:C:2062:ARG:NH2	2.20	0.73
1:B:1793:MET:HG2	1:B:1870:MET:CE	2.18	0.73
1:D:623:ARG:NH2	1:D:661:ASN:OD1	2.20	0.73
1:C:1322:MET:CE	1:C:1386:LYS:CD	2.65	0.73
1:D:1735:LYS:CD	1:D:1775:LEU:HD11	2.18	0.73
1:A:2355:LEU:HA	1:D:2371:LEU:HD23	1.68	0.73
1:B:1747:GLU:OE1	1:B:1792:ARG:NH2	2.20	0.73
1:D:705:GLU:N	1:D:705:GLU:OE2	2.21	0.73
1:B:2162:ASP:OD2	1:B:2163:GLU:CD	2.27	0.73
1:D:1973:LEU:HD11	1:D:1992:LEU:CG	2.19	0.73
1:C:2023:GLN:OE1	1:C:2027:ASP:OD1	2.07	0.73
1:A:2513:PHE:CD2	1:B:2513:PHE:CE2	2.77	0.73
1:C:695:THR:HG22	1:C:705:GLU:HG3	1.71	0.73
1:C:1593:GLU:HG3	1:C:1594:LYS:HE2	1.69	0.73
1:D:2534:LEU:HD23	1:D:2535:LYS:HE2	1.71	0.73
1:C:12:ASP:OD1	1:C:227:PHE:N	2.22	0.73
1:C:855:GLU:HA	1:C:858:LYS:HE3	1.71	0.73
1:D:1239:ASN:OD1	1:D:1242:ASN:HB2	1.87	0.73
1:D:1641:GLY:O	1:D:1731:GLU:OE2	2.07	0.73
1:B:2178:LEU:O	1:B:2182:MET:HG3	1.89	0.72
1:B:2329:THR:HG23	1:B:2343:ILE:CG2	2.18	0.72
1:C:144:GLU:OE1	1:C:199:TYR:CE1	2.42	0.72
1:C:158:GLU:CD	1:C:161:TRP:HZ3	1.89	0.72
1:D:2029:ILE:HD13	1:D:2054:TYR:HB2	1.71	0.72
1:B:12:ASP:OD1	1:B:227:PHE:N	2.22	0.72
1:B:1235:PHE:CE1	1:B:1242:ASN:OD1	2.41	0.72
1:B:1600:THR:C	1:B:1604:GLU:OE2	2.27	0.72
1:D:642:HIS:C	1:D:643:ILE:HD13	2.08	0.72
1:B:1963:GLU:HA	1:B:1963:GLU:OE2	1.89	0.72
1:B:1935:GLY:O	1:B:1938:ILE:HG12	1.89	0.72
1:D:1232:LEU:HD12	1:D:1246:LEU:HD13	1.70	0.72
1:A:2133:MET:HB2	1:A:2608:MET:HE1	1.72	0.72
1:B:1221:MET:HE1	1:B:1222:MET:SD	2.25	0.72
1:D:695:THR:HG22	1:D:705:GLU:HG3	1.70	0.72
1:B:320:ASN:OD1	1:B:321:PRO:HD2	1.90	0.72
1:A:12:ASP:OD1	1:A:227:PHE:N	2.22	0.72
1:B:2497:ASP:OD2	1:C:2471:ARG:NH1	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:734:LYS:HD2	1:C:926:THR:HG23	1.72	0.72
1:D:2147:LEU:HB2	1:D:2182:MET:HE3	1.71	0.72
1:B:860:THR:O	1:B:864:VAL:HG13	1.89	0.72
1:B:1335:PHE:HZ	1:B:1372:LEU:CD1	2.03	0.72
1:C:2020:LEU:CG	1:C:2025:LEU:CD1	2.67	0.72
1:D:410:GLU:OE1	1:D:410:GLU:N	2.22	0.72
1:D:884:LEU:HD11	1:D:888:LEU:HD21	1.72	0.72
1:A:410:GLU:OE1	1:A:410:GLU:N	2.22	0.72
1:A:2020:LEU:CG	1:A:2025:LEU:CD1	2.67	0.72
1:B:2029:ILE:HD13	1:B:2054:TYR:HB2	1.71	0.72
1:C:871:ILE:HD12	1:C:974:ILE:CD1	2.20	0.72
1:D:1175:ILE:O	1:D:1179:LEU:CD2	2.38	0.72
1:D:1175:ILE:O	1:D:1179:LEU:HD23	1.89	0.72
1:A:806:ILE:CD1	1:A:991:LEU:HD13	2.20	0.71
1:A:2020:LEU:CD1	1:A:2025:LEU:HD11	2.16	0.71
1:A:2375:LEU:CD2	1:B:2359:ILE:HD11	2.20	0.71
1:A:860:THR:O	1:A:864:VAL:HG13	1.89	0.71
1:B:735:LEU:HD23	1:B:735:LEU:C	2.11	0.71
1:B:1333:VAL:HG12	1:B:1335:PHE:CE1	2.24	0.71
1:D:12:ASP:OD1	1:D:227:PHE:N	2.22	0.71
1:B:410:GLU:OE1	1:B:410:GLU:N	2.22	0.71
1:D:99:MET:HA	1:D:99:MET:HE3	1.73	0.71
1:D:1663:ILE:HD12	1:D:1752:GLU:HG3	1.73	0.71
1:D:2147:LEU:HB2	1:D:2182:MET:CE	2.20	0.71
1:D:2178:LEU:O	1:D:2182:MET:HG3	1.90	0.71
1:D:2314:MET:CE	1:D:2320:PHE:CE2	2.73	0.71
1:C:961:ASP:O	1:C:965:MET:HG2	1.89	0.71
1:C:1065:HIS:ND1	1:C:1070:LEU:HD21	2.05	0.71
1:D:1255:THR:CG2	1:D:1260:GLU:CD	2.55	0.71
1:A:965:MET:HE1	1:A:968:LYS:HE2	1.73	0.71
1:B:868:HIS:CE1	1:B:973:GLU:OE1	2.43	0.71
1:C:860:THR:O	1:C:864:VAL:HG13	1.89	0.71
1:A:1023:MET:N	1:A:1023:MET:SD	2.63	0.71
1:C:265:LEU:CD2	1:C:417:LEU:HD11	2.21	0.71
1:D:111:VAL:O	1:D:111:VAL:HG12	1.90	0.71
1:D:860:THR:O	1:D:864:VAL:HG13	1.89	0.71
1:B:139:LEU:HD13	1:B:149:ARG:NH1	2.05	0.71
1:B:1023:MET:SD	1:B:1023:MET:N	2.63	0.71
1:B:2383:PHE:CD2	1:B:2500:PHE:CD2	2.76	0.71
1:C:107:GLU:O	1:C:111:VAL:HG22	1.90	0.71
1:D:606:LEU:CD1	1:D:648:THR:HG21	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1663:ILE:CD1	1:D:1752:GLU:HG3	2.21	0.71
1:D:1979:SER:O	1:D:1983:LYS:CG	2.39	0.71
1:A:2604:ARG:HH11	1:A:2605:MET:HG3	1.55	0.71
1:C:2394:ASP:C	1:C:2480:LEU:CD2	2.59	0.71
1:D:31:LEU:HD13	1:D:444:PHE:HB2	1.71	0.71
1:D:1255:THR:HG21	1:D:1260:GLU:OE2	1.89	0.71
1:D:1979:SER:O	1:D:1983:LYS:HG2	1.89	0.71
1:A:935:VAL:HB	1:A:973:GLU:OE1	1.91	0.71
1:A:1963:GLU:OE1	1:A:1963:GLU:N	2.24	0.71
1:B:2147:LEU:HB2	1:B:2182:MET:CE	2.20	0.71
1:D:2125:GLU:OE2	1:D:2562:GLU:OE1	2.09	0.71
1:B:1393:LEU:HD21	1:B:1421:TYR:CD1	2.26	0.70
1:C:652:ILE:HG22	1:C:739:MET:HE2	1.72	0.70
1:C:1528:THR:HA	1:C:1531:MET:HE2	1.73	0.70
1:D:618:PHE:HA	1:D:621:LEU:HD12	1.73	0.70
1:D:2551:LYS:HE3	1:D:2610:LEU:HD12	1.73	0.70
1:B:111:VAL:O	1:B:111:VAL:HG12	1.89	0.70
1:B:394:THR:HG22	1:B:396:THR:HG23	1.73	0.70
1:C:811:THR:HG1	1:C:814:ASP:CG	1.94	0.70
1:C:1060:ILE:HG21	1:C:1628:PHE:CE1	2.26	0.70
1:B:110:LYS:O	1:B:110:LYS:HD3	1.91	0.70
1:C:394:THR:HG22	1:C:396:THR:HG23	1.73	0.70
1:D:1943:THR:HG22	1:D:1947:TYR:HE2	1.50	0.70
1:B:1989:VAL:O	1:B:1993:LYS:HG3	1.90	0.70
1:D:1673:LEU:CD2	1:D:1760:LEU:HD22	2.22	0.70
1:A:2513:PHE:CZ	1:D:2513:PHE:HD2	2.08	0.70
1:B:606:LEU:CD1	1:B:648:THR:HG21	2.21	0.70
1:B:2534:LEU:HD23	1:B:2535:LYS:HE3	1.73	0.70
1:C:2511:LEU:HD21	1:D:2362:VAL:HG23	1.72	0.70
1:B:315:LEU:HD12	1:B:316:ALA:N	2.07	0.70
1:C:2156:PHE:HE2	1:C:2534:LEU:HD21	1.54	0.70
1:D:2316:MET:HA	1:D:2316:MET:CE	2.21	0.70
1:C:2501:PHE:CB	1:D:2471:ARG:NH1	2.41	0.70
1:C:1528:THR:CA	1:C:1531:MET:HE2	2.21	0.70
1:D:617:THR:O	1:D:621:LEU:HG	1.92	0.70
1:D:1033:GLU:OE2	1:D:1038:VAL:HG21	1.91	0.70
1:B:1601:ALA:HA	1:B:1604:GLU:OE2	1.91	0.69
1:D:28:THR:CG2	1:D:152:LEU:HD11	2.22	0.69
1:D:110:LYS:O	1:D:110:LYS:HD3	1.91	0.69
1:B:256:GLU:OE2	1:B:259:GLY:C	2.29	0.69
1:C:1062:LEU:CD2	1:C:1070:LEU:HD11	2.17	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2023:GLN:OE1	1:C:2027:ASP:OD2	2.09	0.69
1:C:2395:PHE:CD1	1:C:2480:LEU:HD21	2.28	0.69
1:A:2471:ARG:HH22	1:D:2477:GLY:CA	2.04	0.69
1:B:303:LEU:C	1:B:304:TYR:CD1	2.65	0.69
1:B:1648:ILE:HD11	1:B:1731:GLU:HB3	1.74	0.69
1:C:1230:GLN:OE1	1:C:1230:GLN:O	2.10	0.69
1:D:394:THR:HG22	1:D:396:THR:HG23	1.73	0.69
1:C:871:ILE:CD1	1:C:974:ILE:CD1	2.66	0.69
1:C:2460:MET:O	1:C:2463:VAL:HG12	1.92	0.69
1:B:1994:ASP:OD2	1:B:2049:VAL:CG2	2.41	0.69
1:D:265:LEU:HD11	1:D:417:LEU:HD21	1.75	0.69
1:C:2480:LEU:CD1	1:C:2493:ARG:NH1	2.56	0.69
1:D:1929:ILE:CD1	1:D:1937:VAL:HG21	2.23	0.69
1:D:1935:GLY:O	1:D:1938:ILE:HG12	1.93	0.69
1:D:2050:GLY:HA2	1:D:2053:ILE:HD12	1.73	0.69
1:A:2222:PHE:CD1	1:A:2278:ILE:CD1	2.75	0.69
1:C:2354:THR:O	1:C:2358:VAL:HG23	1.93	0.69
1:A:2222:PHE:HD1	1:A:2278:ILE:CD1	2.06	0.69
1:A:2306:THR:HG23	1:A:2314:MET:SD	2.33	0.69
1:B:2571:PHE:CE2	1:B:2575:VAL:HG21	2.27	0.69
1:B:110:LYS:HD3	1:B:110:LYS:C	2.13	0.68
1:B:2162:ASP:OD2	1:B:2163:GLU:OE2	2.12	0.68
1:B:2513:PHE:HD2	1:C:2513:PHE:CE2	2.11	0.68
1:D:526:PHE:CZ	1:D:538:LEU:HD23	2.28	0.68
1:D:1221:MET:CE	1:D:1221:MET:O	2.41	0.68
1:D:1221:MET:SD	1:D:1222:MET:HE2	2.32	0.68
1:D:1973:LEU:HD21	1:D:1992:LEU:HD12	1.67	0.68
1:B:57:PHE:CE2	1:B:133:LEU:HD11	2.27	0.68
1:B:376:LYS:N	1:B:376:LYS:HD3	2.06	0.68
1:B:605:LEU:CD1	1:B:609:HIS:ND1	2.53	0.68
1:B:1182:MET:SD	1:B:1182:MET:C	2.71	0.68
1:B:2020:LEU:HD21	1:B:2025:LEU:CD1	2.23	0.68
1:C:598:LEU:HD21	1:C:605:LEU:CD2	2.17	0.68
1:C:855:GLU:CD	1:C:858:LYS:HE3	2.14	0.68
1:D:854:GLU:N	1:D:854:GLU:OE2	2.25	0.68
1:D:1994:ASP:OD1	1:D:2049:VAL:HG22	1.85	0.68
1:A:394:THR:HG22	1:A:396:THR:HG23	1.73	0.68
1:B:1031:GLN:O	1:B:1035:MET:HG2	1.93	0.68
1:B:1060:ILE:HG21	1:B:1628:PHE:CE1	2.28	0.68
1:A:2222:PHE:CE1	1:A:2278:ILE:HD11	2.27	0.68
1:B:972:LEU:HD21	1:B:1062:LEU:HD13	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:734:LYS:CE	1:C:926:THR:OG1	2.42	0.68
1:D:203:ASP:OD1	1:D:204:ASN:CG	2.31	0.68
1:D:709:ARG:O	1:D:713:GLN:HG2	1.93	0.68
1:C:1054:MET:CE	1:C:1057:ARG:NH2	2.57	0.68
1:D:605:LEU:CD1	1:D:609:HIS:ND1	2.51	0.68
1:C:622:VAL:HG21	1:C:631:LEU:CD2	2.22	0.68
1:C:1286:PHE:CE2	1:C:1302:PHE:CG	2.81	0.68
1:D:1060:ILE:HG21	1:D:1628:PHE:CE1	2.28	0.68
1:D:2160:GLU:OE2	1:D:2160:GLU:N	2.25	0.68
1:B:2155:LEU:HD23	1:B:2178:LEU:HD11	1.74	0.68
1:B:2322:TYR:OH	1:B:2347:ASP:OD1	2.11	0.68
1:A:2381:TYR:CZ	1:A:2385:ILE:HD11	2.29	0.68
1:C:741:LEU:HD12	1:C:783:HIS:NE2	2.08	0.68
1:C:2322:TYR:OH	1:C:2347:ASP:OD1	2.12	0.68
1:B:1652:LYS:HD2	1:B:1652:LYS:C	2.14	0.68
1:C:1671:GLN:OE1	1:C:1671:GLN:HA	1.94	0.68
1:D:716:ARG:CB	1:D:716:ARG:HH11	2.07	0.68
1:B:403:VAL:HB	1:B:416:MET:HE1	1.74	0.67
1:B:694:LEU:HD12	1:B:711:LEU:CD1	2.20	0.67
1:D:1989:VAL:O	1:D:1993:LYS:HG3	1.94	0.67
1:A:2511:LEU:HD21	1:B:2362:VAL:HG23	1.75	0.67
1:B:754:GLN:HG2	1:B:755:LEU:HD23	1.74	0.67
1:C:2361:SER:OG	1:C:2520:PHE:CD1	2.41	0.67
1:D:1655:MET:CE	1:D:1656:GLU:HA	2.24	0.67
1:A:972:LEU:HD21	1:A:1062:LEU:HD13	1.75	0.67
1:A:1182:MET:O	1:A:1193:GLN:NE2	2.27	0.67
1:A:2322:TYR:OH	1:A:2347:ASP:OD1	2.12	0.67
1:B:1745:LYS:HE2	1:B:1745:LYS:HA	1.74	0.67
1:D:110:LYS:HD3	1:D:110:LYS:C	2.13	0.67
1:D:2322:TYR:OH	1:D:2347:ASP:OD1	2.12	0.67
1:D:656:VAL:HB	1:D:739:MET:HE1	1.75	0.67
1:A:806:ILE:HD11	1:A:991:LEU:HD13	1.75	0.67
1:B:2166:SER:HB3	1:B:2604:ARG:HH11	1.60	0.67
1:C:855:GLU:OE1	1:C:858:LYS:CE	2.40	0.67
1:C:1054:MET:HE3	1:C:1057:ARG:NH2	2.10	0.67
1:D:2010:SER:CB	1:D:2063:HIS:CE1	2.72	0.67
1:D:2124:ILE:HD13	1:D:2571:PHE:CD1	2.24	0.67
1:A:884:LEU:HD11	1:A:888:LEU:HD21	1.77	0.67
1:B:592:GLU:O	1:B:595:ILE:HG22	1.95	0.67
1:D:885:THR:OG1	1:D:975:LEU:CD2	2.43	0.67
1:D:2604:ARG:HE	1:D:2605:MET:HG2	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2129:GLN:OE1	1:C:2589:TYR:HE1	1.77	0.67
1:B:1626:LEU:CB	1:B:1695:LEU:HD22	2.24	0.67
1:C:972:LEU:HD21	1:C:1062:LEU:HD13	1.75	0.67
1:D:1033:GLU:C	1:D:1033:GLU:OE1	2.32	0.67
1:D:1064:MET:SD	1:D:1637:ARG:NH1	2.68	0.67
1:D:1182:MET:O	1:D:1193:GLN:NE2	2.27	0.67
1:D:1655:MET:CE	1:D:1656:GLU:CA	2.72	0.67
1:B:735:LEU:HD23	1:B:735:LEU:O	1.94	0.67
1:B:2026:VAL:HG21	1:B:2070:LEU:HB3	1.77	0.67
1:D:2571:PHE:O	1:D:2571:PHE:HD2	1.77	0.67
1:A:692:VAL:HG21	1:A:763:CYS:SG	2.35	0.67
1:A:1064:MET:SD	1:A:1637:ARG:NH1	2.68	0.67
1:C:868:HIS:CE1	1:C:872:TYR:CD1	2.83	0.67
1:D:692:VAL:HG21	1:D:763:CYS:SG	2.35	0.67
1:B:1086:GLN:OE1	1:B:1086:GLN:O	2.11	0.66
1:C:613:THR:O	1:C:617:THR:HG23	1.95	0.66
1:C:1322:MET:CE	1:C:1386:LYS:HG2	2.15	0.66
1:D:406:ASP:CG	1:D:414:ARG:HH11	1.98	0.66
1:B:1783:GLU:OE2	1:B:1783:GLU:N	2.26	0.66
1:C:631:LEU:HD12	1:C:735:LEU:HD22	1.78	0.66
1:C:1876:PHE:CZ	1:C:1880:LEU:HD11	2.29	0.66
1:C:2154:ARG:O	1:C:2158:THR:HG22	1.95	0.66
1:D:28:THR:HG21	1:D:152:LEU:HD11	1.76	0.66
1:A:2368:SER:OG	1:B:2354:THR:CG2	2.43	0.66
1:C:1033:GLU:OE2	1:C:1038:VAL:HG21	1.95	0.66
1:B:613:THR:O	1:B:617:THR:HG23	1.95	0.66
1:B:1745:LYS:HE2	1:B:1745:LYS:CA	2.24	0.66
1:B:2050:GLY:O	1:B:2053:ILE:CG2	2.43	0.66
1:B:2513:PHE:CD2	1:C:2513:PHE:CZ	2.83	0.66
1:C:2026:VAL:HG21	1:C:2070:LEU:HB3	1.77	0.66
1:B:1322:MET:HE2	1:B:1386:LYS:CD	2.24	0.66
1:B:1660:LYS:O	1:B:1663:ILE:CG2	2.44	0.66
1:B:2354:THR:O	1:B:2358:VAL:HG23	1.95	0.66
1:C:1251:HIS:CE1	1:C:1252:LEU:CD2	2.79	0.66
1:D:2026:VAL:HG21	1:D:2070:LEU:HB3	1.77	0.66
1:A:665:LEU:HD23	1:A:732:GLN:CD	2.16	0.66
1:A:735:LEU:O	1:A:735:LEU:HD12	1.96	0.66
1:A:2222:PHE:HD1	1:A:2278:ILE:HD11	1.61	0.66
1:C:1970:ILE:CD1	1:C:1999:LEU:HD21	2.26	0.66
1:D:1221:MET:HE1	1:D:1225:LEU:HD13	1.69	0.66
1:A:1033:GLU:OE2	1:A:1038:VAL:HG21	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1773:HIS:O	1:A:1777:MET:SD	2.54	0.66
1:B:2329:THR:HG23	1:B:2343:ILE:HG21	1.78	0.66
1:C:982:ARG:HD3	1:C:986:ARG:NH2	2.10	0.66
1:C:982:ARG:HD3	1:C:986:ARG:HH21	1.61	0.66
1:C:692:VAL:HG21	1:C:763:CYS:SG	2.35	0.66
1:C:2395:PHE:HA	1:C:2480:LEU:HD23	1.76	0.66
1:D:716:ARG:NH1	1:D:716:ARG:HB2	2.11	0.66
1:A:1082:PHE:CD2	1:A:1617:LEU:HD13	2.31	0.66
1:A:1288:HIS:NE2	1:D:138:ARG:NH2	2.16	0.66
1:C:734:LYS:CE	1:C:926:THR:CB	2.72	0.66
1:C:2051:HIS:ND1	1:C:2139:PRO:HB3	2.10	0.66
1:D:320:ASN:OD1	1:D:321:PRO:CD	2.44	0.66
1:D:791:GLN:NE2	1:D:791:GLN:N	2.43	0.66
1:D:2146:PHE:CE1	1:D:2186:ARG:HA	2.31	0.66
1:D:2354:THR:O	1:D:2358:VAL:HG23	1.95	0.66
1:B:135:VAL:HG11	1:B:187:PRO:CB	2.26	0.66
1:D:1773:HIS:O	1:D:1777:MET:SD	2.54	0.66
1:B:692:VAL:HG21	1:B:763:CYS:SG	2.35	0.65
1:D:1671:GLN:OE1	1:D:1674:LEU:HD12	1.96	0.65
1:B:1082:PHE:CD2	1:B:1617:LEU:HD13	2.31	0.65
1:C:855:GLU:HA	1:C:858:LYS:HG3	1.77	0.65
1:A:613:THR:O	1:A:617:THR:HG23	1.95	0.65
1:A:2381:TYR:HE2	1:B:2342:SER:CB	2.09	0.65
1:D:368:GLU:OE1	1:D:390:ARG:NH1	2.30	0.65
1:D:2124:ILE:HD11	1:D:2571:PHE:CE1	2.31	0.65
1:B:694:LEU:HD21	1:B:708:VAL:HG22	1.78	0.65
1:B:1064:MET:SD	1:B:1637:ARG:NH1	2.68	0.65
1:B:2050:GLY:O	1:B:2053:ILE:HG22	1.97	0.65
1:C:135:VAL:HG11	1:C:187:PRO:CB	2.25	0.65
1:B:1660:LYS:O	1:B:1663:ILE:HG23	1.96	0.65
1:B:1773:HIS:O	1:B:1777:MET:SD	2.54	0.65
1:C:2129:GLN:OE1	1:C:2589:TYR:CE1	2.49	0.65
1:D:613:THR:O	1:D:617:THR:HG23	1.95	0.65
1:B:1600:THR:O	1:B:1604:GLU:OE2	2.15	0.65
1:C:2203:LEU:HD11	1:C:2207:ILE:HD11	1.79	0.65
1:D:1625:GLU:N	1:D:1625:GLU:OE2	2.29	0.65
1:D:1652:LYS:O	1:D:1652:LYS:CD	2.32	0.65
1:D:2029:ILE:HD13	1:D:2054:TYR:CB	2.27	0.65
1:B:368:GLU:OE1	1:B:390:ARG:NH1	2.30	0.65
1:C:734:LYS:CE	1:C:926:THR:HA	2.27	0.65
1:D:2203:LEU:HD11	1:D:2207:ILE:HD11	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1358:ASP:HA	1:B:1363:MET:CE	2.27	0.65
1:C:1182:MET:O	1:C:1193:GLN:NE2	2.27	0.65
1:C:2051:HIS:CE1	1:C:2139:PRO:CB	2.79	0.65
1:D:31:LEU:O	1:D:31:LEU:HD23	1.97	0.65
1:D:1604:GLU:HA	1:D:1607:LYS:HD2	1.77	0.65
1:D:2550:ASN:O	1:D:2550:ASN:CG	2.34	0.65
1:A:1089:MET:SD	1:A:1089:MET:N	2.70	0.65
1:B:303:LEU:O	1:B:304:TYR:CD1	2.50	0.65
1:B:526:PHE:CE1	1:B:538:LEU:CD2	2.79	0.65
1:B:1073:GLY:O	1:B:1077:LEU:HD12	1.97	0.65
1:B:2014:GLU:HA	1:B:2017:LEU:HD12	1.78	0.65
1:B:31:LEU:HD23	1:B:31:LEU:O	1.97	0.64
1:B:2398:GLU:OE2	1:B:2398:GLU:N	2.28	0.64
1:C:1073:GLY:O	1:C:1077:LEU:HD12	1.97	0.64
1:C:1082:PHE:CD2	1:C:1617:LEU:HD13	2.31	0.64
1:C:1089:MET:N	1:C:1089:MET:SD	2.70	0.64
1:C:1426:VAL:O	1:C:1428:MET:HE2	1.96	0.64
1:D:376:LYS:HD3	1:D:376:LYS:N	2.10	0.64
1:D:1060:ILE:CD1	1:D:1643:PHE:CZ	2.80	0.64
1:D:1089:MET:SD	1:D:1089:MET:N	2.70	0.64
1:A:2203:LEU:HD11	1:A:2207:ILE:HD11	1.79	0.64
1:B:1089:MET:N	1:B:1089:MET:SD	2.70	0.64
1:B:2029:ILE:HD13	1:B:2054:TYR:CB	2.27	0.64
1:C:265:LEU:HD21	1:C:417:LEU:HD21	1.79	0.64
1:D:303:LEU:CD1	1:D:366:LEU:HD13	2.27	0.64
1:D:791:GLN:N	1:D:791:GLN:CD	2.51	0.64
1:D:1943:THR:CG2	1:D:1947:TYR:OH	2.44	0.64
1:D:2029:ILE:HD11	1:D:2054:TYR:CA	2.27	0.64
1:B:315:LEU:HD12	1:B:316:ALA:H	1.61	0.64
1:C:31:LEU:O	1:C:31:LEU:HD23	1.97	0.64
1:C:1322:MET:CE	1:C:1386:LYS:HD3	2.27	0.64
1:C:1769:GLN:NE2	1:C:1879:LEU:O	2.31	0.64
1:C:1970:ILE:HD13	1:C:1999:LEU:HD23	1.78	0.64
1:D:872:TYR:OH	1:D:935:VAL:HG21	1.97	0.64
1:A:1863:MET:HA	1:A:1863:MET:CE	2.28	0.64
1:B:791:GLN:NE2	1:B:791:GLN:N	2.43	0.64
1:B:1060:ILE:CD1	1:B:1643:PHE:CZ	2.80	0.64
1:C:368:GLU:OE1	1:C:390:ARG:NH1	2.30	0.64
1:C:734:LYS:HD3	1:C:926:THR:OG1	1.96	0.64
1:C:840:TYR:HD2	1:C:863:VAL:HG21	0.91	0.64
1:D:1652:LYS:O	1:D:1655:MET:HG3	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2178:LEU:O	1:D:2182:MET:CG	2.46	0.64
1:A:1769:GLN:NE2	1:A:1879:LEU:O	2.31	0.64
1:B:791:GLN:N	1:B:791:GLN:CD	2.51	0.64
1:B:1060:ILE:HD13	1:B:1643:PHE:CE1	2.32	0.64
1:B:2178:LEU:O	1:B:2182:MET:CG	2.46	0.64
1:C:2545:ARG:NH1	1:C:2545:ARG:HB3	2.12	0.64
1:D:709:ARG:O	1:D:713:GLN:CG	2.46	0.64
1:D:1073:GLY:O	1:D:1077:LEU:HD12	1.97	0.64
1:D:1322:MET:HE2	1:D:1326:THR:HG23	1.80	0.64
1:A:2513:PHE:CE2	1:D:2513:PHE:HD2	2.15	0.64
1:D:745:TYR:HH	1:D:789:ASP:HB2	1.61	0.64
1:B:303:LEU:HD12	1:B:366:LEU:HD13	1.79	0.64
1:A:2026:VAL:HG21	1:A:2070:LEU:HB3	1.77	0.64
1:D:355:VAL:CG2	1:D:356:ALA:N	2.60	0.64
1:D:1983:LYS:HA	1:D:1983:LYS:CE	2.20	0.64
1:C:158:GLU:OE1	1:C:161:TRP:CZ3	2.50	0.64
1:C:1322:MET:HE2	1:C:1386:LYS:CD	2.28	0.64
1:D:99:MET:HA	1:D:99:MET:CE	2.27	0.64
1:D:526:PHE:CE1	1:D:538:LEU:HD23	2.33	0.64
1:A:2513:PHE:CE1	1:D:2510:ASN:HB3	2.33	0.64
1:B:889:LEU:CD2	1:B:975:LEU:CD1	2.75	0.64
1:C:17:TYR:CD2	1:C:45:LEU:HG	2.33	0.64
1:C:598:LEU:HD23	1:C:598:LEU:O	1.97	0.64
1:D:871:ILE:HD12	1:D:974:ILE:CD1	2.27	0.64
1:D:1221:MET:SD	1:D:1222:MET:CE	2.86	0.64
1:A:2358:VAL:HG12	1:D:2511:LEU:HD13	1.77	0.63
1:C:1251:HIS:CE1	1:C:1252:LEU:HD22	2.33	0.63
1:A:1073:GLY:O	1:A:1077:LEU:HD12	1.97	0.63
1:B:1793:MET:CG	1:B:1870:MET:CE	2.76	0.63
1:C:2562:GLU:OE2	1:C:2609:SER:OG	2.15	0.63
1:D:763:CYS:O	1:D:769:LEU:CD1	2.47	0.63
1:D:1232:LEU:CD1	1:D:1246:LEU:CD1	2.76	0.63
1:D:1652:LYS:C	1:D:1652:LYS:CD	2.60	0.63
1:B:1793:MET:HG2	1:B:1870:MET:HE2	1.80	0.63
1:B:2571:PHE:HE2	1:B:2590:VAL:CG1	2.11	0.63
1:C:2375:LEU:HD21	1:D:2359:ILE:HD11	1.81	0.63
1:D:977:PHE:O	1:D:981:VAL:HG23	1.99	0.63
1:B:2131:ARG:HH11	1:B:2131:ARG:HG3	1.63	0.63
1:B:2381:TYR:CZ	1:B:2385:ILE:HD11	2.34	0.63
1:C:1932:ASP:C	1:C:1932:ASP:OD1	2.37	0.63
1:C:977:PHE:O	1:C:981:VAL:HG23	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2460:MET:CE	1:C:2460:MET:HA	2.22	0.63
1:D:1863:MET:SD	1:D:1867:VAL:HG21	2.38	0.63
1:B:1989:VAL:O	1:B:1993:LYS:CG	2.47	0.63
1:C:2310:GLY:O	1:C:2314:MET:HG2	1.98	0.63
1:D:1358:ASP:HA	1:D:1363:MET:CE	2.29	0.63
1:D:1983:LYS:CD	1:D:1983:LYS:N	2.62	0.63
1:A:31:LEU:O	1:A:31:LEU:HD23	1.97	0.63
1:B:1322:MET:CE	1:B:1386:LYS:HD3	2.27	0.63
1:C:615:VAL:O	1:C:619:VAL:HG13	1.99	0.63
1:D:1060:ILE:HD13	1:D:1643:PHE:CE1	2.32	0.63
1:C:1430:GLU:O	1:C:1434:SER:OG	2.11	0.63
1:C:17:TYR:CE2	1:C:45:LEU:HG	2.33	0.63
1:D:61:PRO:HD2	1:D:108:ASN:ND2	2.14	0.63
1:D:1919:THR:HG23	1:D:1924:LEU:HD12	1.81	0.63
1:D:2029:ILE:CD1	1:D:2054:TYR:CA	2.77	0.63
1:D:2120:HIS:O	1:D:2140:VAL:HG22	1.99	0.63
1:B:1393:LEU:HG	1:B:1421:TYR:CE1	2.33	0.62
1:B:1960:VAL:HG22	1:B:1967:ILE:HD13	1.81	0.62
1:B:2203:LEU:HD11	1:B:2207:ILE:HD11	1.81	0.62
1:C:354:LEU:HD11	1:C:398:ILE:CD1	2.29	0.62
1:C:2543:LEU:HD23	1:C:2548:PHE:CE2	2.34	0.62
1:B:977:PHE:O	1:B:981:VAL:HG23	1.99	0.62
1:B:2381:TYR:HE2	1:C:2342:SER:HB2	1.64	0.62
1:C:1644:LEU:HD23	1:C:1731:GLU:HG3	1.81	0.62
1:D:452:LEU:HD23	1:D:475:LEU:CD2	2.27	0.62
1:D:1671:GLN:OE1	1:D:1674:LEU:CD1	2.47	0.62
1:D:2543:LEU:HD11	1:D:2605:MET:HA	1.77	0.62
1:B:19:GLU:HG2	1:B:23:ASN:OD1	1.99	0.62
1:C:1777:MET:SD	1:C:1777:MET:C	2.77	0.62
1:D:232:GLU:O	1:D:383:ARG:HD3	1.99	0.62
1:B:790:PRO:HD2	1:B:791:GLN:HE22	1.63	0.62
1:B:2598:ASN:CG	1:B:2600:ASP:OD2	2.38	0.62
1:D:1589:LYS:O	1:D:1589:LYS:HD2	1.99	0.62
1:D:1626:LEU:HB2	1:D:1695:LEU:HD22	1.81	0.62
1:D:1735:LYS:CA	1:D:1738:CYS:SG	2.83	0.62
1:D:2020:LEU:HD21	1:D:2025:LEU:HD13	1.81	0.62
1:A:977:PHE:O	1:A:981:VAL:HG23	1.99	0.62
1:B:889:LEU:HD21	1:B:975:LEU:HD12	1.81	0.62
1:B:1251:HIS:CE1	1:B:1252:LEU:CD2	2.82	0.62
1:B:1919:THR:HG23	1:B:1924:LEU:HD12	1.81	0.62
1:B:2050:GLY:HA2	1:B:2053:ILE:HG22	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1196:LEU:HA	1:C:1199:ASN:OD1	2.00	0.62
1:D:2551:LYS:CE	1:D:2610:LEU:HD12	2.28	0.62
1:A:2513:PHE:CZ	1:D:2513:PHE:CD2	2.88	0.62
1:B:1060:ILE:CD1	1:B:1643:PHE:CE1	2.83	0.62
1:C:1960:VAL:HG22	1:C:1967:ILE:HD13	1.81	0.62
1:C:2048:GLU:O	1:C:2052:ASN:ND2	2.31	0.62
1:D:69:LYS:HD2	1:D:158:GLU:OE2	1.98	0.62
1:D:554:ARG:NH1	1:D:588:ASP:OD2	2.33	0.62
1:D:790:PRO:HD2	1:D:791:GLN:HE22	1.64	0.62
1:D:1881:CYS:SG	1:D:1889:GLN:HA	2.39	0.62
1:B:232:GLU:O	1:B:383:ARG:HD3	1.99	0.62
1:B:1348:MET:HE2	1:B:1362:LEU:HB2	1.82	0.62
1:B:2054:TYR:HE1	1:B:2058:LEU:HD11	1.65	0.62
1:C:1589:LYS:N	1:C:1589:LYS:CD	2.53	0.62
1:B:1221:MET:SD	1:B:1225:LEU:CD1	2.87	0.62
1:B:2029:ILE:HD11	1:B:2054:TYR:CA	2.27	0.62
1:B:2029:ILE:CD1	1:B:2054:TYR:CA	2.77	0.62
1:B:2598:ASN:OD1	1:B:2600:ASP:OD2	2.16	0.62
1:D:409:GLU:CD	1:D:414:ARG:HH12	2.04	0.62
1:D:1060:ILE:CD1	1:D:1643:PHE:CE1	2.83	0.62
1:C:2381:TYR:CZ	1:C:2385:ILE:HD11	2.34	0.62
1:D:398:ILE:HD13	1:D:419:THR:HG22	1.82	0.62
1:D:2381:TYR:CZ	1:D:2385:ILE:HD11	2.34	0.62
1:A:1960:VAL:HG22	1:A:1967:ILE:HD13	1.81	0.61
1:D:370:ASP:OD1	1:D:371:PRO:O	2.18	0.61
1:D:495:ASP:O	1:D:495:ASP:OD2	2.17	0.61
1:D:2222:PHE:CE2	1:D:2278:ILE:CD1	2.75	0.61
1:A:615:VAL:O	1:A:619:VAL:HG13	1.99	0.61
1:B:1963:GLU:OE2	1:B:1963:GLU:CA	2.48	0.61
1:D:1023:MET:HE2	1:D:1594:LYS:CD	2.30	0.61
1:B:135:VAL:HG21	1:B:212:SER:OG	1.99	0.61
1:B:622:VAL:O	1:B:626:ARG:N	2.33	0.61
1:C:554:ARG:CZ	1:C:588:ASP:OD2	2.49	0.61
1:C:612:LYS:O	1:C:612:LYS:HD3	1.99	0.61
1:C:622:VAL:O	1:C:626:ARG:N	2.33	0.61
1:C:961:ASP:O	1:C:965:MET:HE3	2.00	0.61
1:D:240:VAL:HG11	1:D:439:ILE:HD12	1.82	0.61
1:D:695:THR:CG2	1:D:705:GLU:HG3	2.30	0.61
1:D:2222:PHE:HE2	1:D:2278:ILE:HD11	1.61	0.61
1:C:354:LEU:HD21	1:C:398:ILE:HD11	1.81	0.61
1:C:736:PHE:O	1:C:740:CYS:SG	2.49	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:741:LEU:CD1	1:C:783:HIS:CD2	2.83	0.61
1:D:2222:PHE:CD2	1:D:2278:ILE:HD12	2.30	0.61
1:C:741:LEU:HD12	1:C:783:HIS:CD2	2.35	0.61
1:C:1060:ILE:HG22	1:C:1628:PHE:CZ	2.35	0.61
1:D:252:LEU:CD1	1:D:417:LEU:HD11	2.29	0.61
1:D:91:GLN:OE1	1:D:91:GLN:C	2.39	0.61
1:D:111:VAL:O	1:D:111:VAL:CG1	2.49	0.61
1:D:1349:MET:SD	1:D:1406:ILE:HG23	2.40	0.61
1:D:2049:VAL:HG12	1:D:2053:ILE:HD11	1.82	0.61
1:A:2054:TYR:HE1	1:A:2058:LEU:HD11	1.65	0.61
1:A:2371:LEU:HD13	1:B:2355:LEU:HB2	1.81	0.61
1:B:267:THR:HB	1:B:413:ILE:HG22	1.82	0.61
1:B:363:ILE:HG22	1:B:393:CYS:SG	2.40	0.61
1:B:554:ARG:NH1	1:B:588:ASP:OD2	2.33	0.61
1:B:1349:MET:SD	1:B:1406:ILE:HG23	2.40	0.61
1:C:695:THR:CG2	1:C:705:GLU:HG3	2.30	0.61
1:D:403:VAL:HB	1:D:416:MET:HE3	1.83	0.61
1:D:1655:MET:HE1	1:D:1656:GLU:HA	1.82	0.61
1:D:1944:LEU:HA	1:D:1947:TYR:HD2	1.64	0.61
1:B:1349:MET:SD	1:B:1349:MET:O	2.59	0.61
1:B:1956:GLN:NE2	1:B:2002:ALA:O	2.34	0.61
1:D:1349:MET:SD	1:D:1349:MET:O	2.59	0.61
1:D:1663:ILE:HD11	1:D:1749:ILE:HA	1.83	0.61
1:D:1960:VAL:HG22	1:D:1967:ILE:HD13	1.81	0.61
1:A:1430:GLU:O	1:A:1434:SER:OG	2.11	0.61
1:B:2050:GLY:HA2	1:B:2053:ILE:CG2	2.31	0.61
1:C:522:LEU:HD11	1:C:557:TYR:CE2	2.36	0.61
1:D:363:ILE:HG22	1:D:393:CYS:SG	2.40	0.61
1:D:871:ILE:HD13	1:D:974:ILE:HD13	1.79	0.61
1:B:111:VAL:O	1:B:111:VAL:CG1	2.48	0.60
1:B:884:LEU:HD11	1:B:888:LEU:HD21	1.83	0.60
1:D:1645:SER:HB2	1:D:1731:GLU:OE1	2.01	0.60
1:B:91:GLN:C	1:B:91:GLN:OE1	2.39	0.60
1:B:99:MET:HA	1:B:99:MET:HE3	1.83	0.60
1:B:1247:HIS:CE1	1:B:1250:LEU:HD22	2.36	0.60
1:B:1322:MET:CE	1:B:1386:LYS:CG	2.77	0.60
1:B:2571:PHE:CD2	1:B:2571:PHE:C	2.74	0.60
1:C:135:VAL:HG21	1:C:212:SER:OG	1.99	0.60
1:C:1060:ILE:CD1	1:C:1643:PHE:CZ	2.84	0.60
1:C:2481:ARG:NH2	1:D:2402:LEU:CD1	2.40	0.60
1:D:782:LEU:HD23	1:D:782:LEU:C	2.21	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1600:THR:O	1:B:1604:GLU:CG	2.47	0.60
1:C:868:HIS:CD2	1:C:872:TYR:CE1	2.86	0.60
1:D:1092:PHE:HA	1:D:1095:VAL:HG23	1.81	0.60
1:C:398:ILE:CG2	1:C:429:PHE:CE1	2.84	0.60
1:D:1956:GLN:NE2	1:D:2002:ALA:O	2.34	0.60
1:A:653:CYS:SG	1:A:747:ALA:HB2	2.42	0.60
1:B:1335:PHE:HZ	1:B:1372:LEU:HD11	1.66	0.60
1:C:32:VAL:HG22	1:C:32:VAL:O	2.02	0.60
1:C:398:ILE:HG21	1:C:429:PHE:CE1	2.36	0.60
1:D:203:ASP:OD1	1:D:203:ASP:C	2.39	0.60
1:D:754:GLN:O	1:D:755:LEU:HD23	2.02	0.60
1:D:968:LYS:NZ	1:D:1065:HIS:CE1	2.69	0.60
1:D:1909:GLN:O	1:D:1913:ILE:HG13	2.02	0.60
1:A:1956:GLN:NE2	1:A:2002:ALA:O	2.34	0.60
1:D:1255:THR:HG23	1:D:1260:GLU:OE2	1.98	0.60
1:D:2020:LEU:CD2	1:D:2025:LEU:HD11	2.31	0.60
1:B:1975:LEU:HD11	1:B:2025:LEU:CD1	2.30	0.60
1:C:57:PHE:CE2	1:C:133:LEU:HD11	2.36	0.60
1:C:1050:GLU:OE2	1:C:1054:MET:HE3	2.01	0.60
1:D:32:VAL:O	1:D:32:VAL:HG22	2.02	0.60
1:B:398:ILE:HD13	1:B:419:THR:HG22	1.82	0.60
1:B:1994:ASP:OD2	1:B:2049:VAL:HG22	2.01	0.60
1:B:2118:GLU:OE2	1:B:2118:GLU:C	2.40	0.60
1:B:2179:HIS:HA	1:B:2182:MET:HG3	1.83	0.60
1:C:1956:GLN:NE2	1:C:2002:ALA:O	2.34	0.60
1:D:656:VAL:HG11	1:D:739:MET:HE3	1.82	0.60
1:D:57:PHE:CE2	1:D:133:LEU:HD11	2.36	0.60
1:A:729:TYR:O	1:A:733:LEU:HD23	2.02	0.60
1:B:564:GLN:HB3	1:B:574:ILE:HD12	1.84	0.60
1:B:1672:MET:CE	1:B:1728:LEU:HD21	2.31	0.60
1:C:267:THR:HB	1:C:413:ILE:HG22	1.82	0.60
1:C:564:GLN:HB3	1:C:574:ILE:HD12	1.84	0.60
1:B:877:SER:O	1:B:881:LEU:N	2.35	0.59
1:B:1235:PHE:HD1	1:B:1242:ASN:ND2	1.93	0.59
1:B:1348:MET:CE	1:B:1362:LEU:HB2	2.32	0.59
1:B:2120:HIS:O	1:B:2140:VAL:HG22	2.01	0.59
1:B:2155:LEU:HD21	1:B:2178:LEU:HD11	1.82	0.59
1:A:352:TYR:CD1	1:A:394:THR:HG21	2.36	0.59
1:B:1222:MET:SD	1:B:1222:MET:N	2.75	0.59
1:D:622:VAL:O	1:D:626:ARG:N	2.33	0.59
1:D:665:LEU:HD11	1:D:736:PHE:HZ	1.65	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1963:GLU:OE2	1:D:1963:GLU:CA	2.50	0.59
1:A:2011:GLU:OE1	1:A:2011:GLU:N	2.34	0.59
1:B:1426:VAL:O	1:B:1428:MET:HE3	1.99	0.59
1:A:2048:GLU:O	1:A:2052:ASN:ND2	2.31	0.59
1:B:135:VAL:HG11	1:B:187:PRO:HB3	1.85	0.59
1:B:2219:ILE:HD11	1:B:2338:GLU:HB2	1.84	0.59
1:B:2510:ASN:HB3	1:C:2513:PHE:CE1	2.37	0.59
1:D:71:TYR:CZ	1:D:75:LYS:CE	2.84	0.59
1:D:1092:PHE:HA	1:D:1095:VAL:CG2	2.32	0.59
1:D:1735:LYS:O	1:D:1738:CYS:SG	2.57	0.59
1:D:2318:MET:SD	1:D:2350:TYR:OH	2.60	0.59
1:A:2375:LEU:HD21	1:B:2359:ILE:HD11	1.84	0.59
1:B:1427:GLU:C	1:B:1428:MET:CE	2.71	0.59
1:B:1427:GLU:C	1:B:1428:MET:HE2	2.23	0.59
1:C:734:LYS:HD3	1:C:926:THR:CG2	2.33	0.59
1:C:2394:ASP:C	1:C:2480:LEU:HD22	2.23	0.59
1:C:935:VAL:HB	1:C:973:GLU:OE1	2.03	0.59
1:D:1430:GLU:O	1:D:1434:SER:OG	2.11	0.59
1:D:716:ARG:CB	1:D:716:ARG:NH1	2.65	0.59
1:D:2571:PHE:HE2	1:D:2575:VAL:CG2	2.15	0.59
1:B:370:ASP:OD1	1:B:371:PRO:O	2.20	0.59
1:B:1625:GLU:OE2	1:B:1625:GLU:N	2.23	0.59
1:B:1630:GLU:OE1	1:B:1635:TYR:CZ	2.55	0.59
1:B:2511:LEU:HD21	1:C:2362:VAL:CG2	2.32	0.59
1:C:158:GLU:OE1	1:C:161:TRP:HZ3	1.84	0.59
1:C:1050:GLU:OE2	1:C:1054:MET:CE	2.50	0.59
1:C:1060:ILE:CD1	1:C:1643:PHE:CE1	2.86	0.59
1:D:606:LEU:HD13	1:D:648:THR:HG21	1.85	0.59
1:D:2020:LEU:CD1	1:D:2025:LEU:CD1	2.75	0.59
1:B:303:LEU:O	1:B:304:TYR:HD1	1.86	0.59
1:B:1218:ASP:HB2	1:B:1222:MET:SD	2.43	0.59
1:C:1071:VAL:HG12	1:C:1650:HIS:CE1	2.38	0.59
1:A:554:ARG:NH1	1:A:588:ASP:OD2	2.35	0.58
1:B:606:LEU:HD13	1:B:648:THR:HG21	1.85	0.58
1:B:656:VAL:CB	1:B:739:MET:HE1	2.33	0.58
1:C:247:GLU:HA	1:C:247:GLU:OE2	2.03	0.58
1:C:1060:ILE:HD13	1:C:1643:PHE:CZ	2.37	0.58
1:D:716:ARG:HH11	1:D:716:ARG:HB3	1.68	0.58
1:A:203:ASP:OD1	1:A:204:ASN:N	2.37	0.58
1:C:1251:HIS:ND1	1:C:1252:LEU:HD22	2.18	0.58
1:D:2020:LEU:CD2	1:D:2025:LEU:CD1	2.81	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1054:MET:HG3	1:B:1057:ARG:NH2	2.19	0.58
1:B:1060:ILE:HG22	1:B:1628:PHE:CZ	2.38	0.58
1:D:1060:ILE:HG22	1:D:1628:PHE:CZ	2.38	0.58
1:B:320:ASN:ND2	1:B:350:ILE:O	2.30	0.58
1:B:1626:LEU:HD12	1:B:1695:LEU:HD13	1.84	0.58
1:D:578:PHE:O	1:D:582:GLN:HG3	2.04	0.58
1:D:1651:THR:OG1	1:D:1665:VAL:HG11	2.03	0.58
1:A:622:VAL:O	1:A:626:ARG:N	2.33	0.58
1:B:1734:THR:OG1	1:B:1772:PHE:CD2	2.51	0.58
1:C:1054:MET:HG3	1:C:1057:ARG:NH2	2.19	0.58
1:D:605:LEU:CD1	1:D:609:HIS:HE1	2.12	0.58
1:D:730:ARG:HH11	1:D:730:ARG:HB2	1.68	0.58
1:D:1232:LEU:HD13	1:D:1246:LEU:CD1	2.34	0.58
1:D:1626:LEU:HD12	1:D:1695:LEU:HD13	1.85	0.58
1:B:2050:GLY:CA	1:B:2053:ILE:HG22	2.34	0.58
1:B:2375:LEU:CD2	1:C:2359:ILE:HD11	2.33	0.58
1:D:1885:ASN:C	1:D:1885:ASN:OD1	2.42	0.58
1:B:2020:LEU:HD21	1:B:2025:LEU:HD11	1.84	0.58
1:C:135:VAL:HG11	1:C:187:PRO:HB3	1.85	0.58
1:D:1772:PHE:O	1:D:1776:MET:HE2	2.04	0.58
1:D:2179:HIS:HA	1:D:2182:MET:HG3	1.83	0.58
1:A:71:TYR:HE2	1:A:94:GLN:HB2	1.65	0.58
1:B:653:CYS:SG	1:B:747:ALA:HB2	2.44	0.58
1:B:1793:MET:CG	1:B:1870:MET:HE1	2.34	0.58
1:C:2054:TYR:CE2	1:C:2071:LEU:CD2	2.86	0.58
1:D:564:GLN:HB3	1:D:574:ILE:HD12	1.84	0.58
1:A:564:GLN:HB3	1:A:574:ILE:HD12	1.84	0.58
1:B:1358:ASP:HA	1:B:1363:MET:HE3	1.84	0.58
1:B:1877:LEU:HD22	1:B:1892:LEU:CD1	2.33	0.58
1:C:840:TYR:CE2	1:C:859:LEU:HG	2.39	0.58
1:C:964:VAL:O	1:C:968:LYS:HG2	2.03	0.58
1:C:144:GLU:OE1	1:C:199:TYR:CD1	2.57	0.58
1:C:2481:ARG:NE	1:D:2402:LEU:HD21	2.18	0.58
1:D:601:ASN:CG	1:D:601:ASN:O	2.41	0.58
1:D:1912:ASP:OD1	1:D:1966:GLY:HA2	2.03	0.58
1:C:653:CYS:HA	1:C:739:MET:CE	2.34	0.57
1:C:826:LYS:NZ	1:C:873:PHE:O	2.37	0.57
1:C:1044:MET:SD	1:C:1045:LEU:HD12	2.41	0.57
1:C:1898:LYS:HE3	1:C:1898:LYS:HA	1.85	0.57
1:D:1655:MET:C	1:D:1655:MET:CE	2.69	0.57
1:A:398:ILE:HD13	1:A:419:THR:HG22	1.84	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2133:MET:HB3	1:A:2608:MET:HE2	1.86	0.57
1:B:2124:ILE:HD11	1:B:2571:PHE:CD1	2.40	0.57
1:C:2009:ASP:CB	1:C:2011:GLU:OE2	2.52	0.57
1:C:2375:LEU:HD22	1:D:2359:ILE:HD11	1.85	0.57
1:D:653:CYS:SG	1:D:747:ALA:HB2	2.44	0.57
1:B:1322:MET:HE2	1:B:1386:LYS:HD2	1.85	0.57
1:D:303:LEU:HD13	1:D:366:LEU:HD13	1.84	0.57
1:D:355:VAL:CG2	1:D:356:ALA:H	2.17	0.57
1:D:370:ASP:OD1	1:D:370:ASP:C	2.43	0.57
1:D:2551:LYS:HE3	1:D:2610:LEU:CD1	2.34	0.57
1:A:2355:LEU:HB2	1:D:2371:LEU:HD21	0.73	0.57
1:B:2556:GLU:CD	1:B:2556:GLU:H	2.07	0.57
1:B:2598:ASN:ND2	1:B:2600:ASP:OD2	2.37	0.57
1:D:826:LYS:NZ	1:D:873:PHE:O	2.37	0.57
1:D:1232:LEU:HD13	1:D:1246:LEU:HD11	1.85	0.57
1:A:2006:SER:O	1:A:2006:SER:OG	2.20	0.57
1:C:2144:CYS:HA	1:C:2182:MET:SD	2.44	0.57
1:D:71:TYR:CZ	1:D:75:LYS:NZ	2.72	0.57
1:D:1994:ASP:OD2	1:D:2049:VAL:CG2	2.51	0.57
1:A:964:VAL:O	1:A:968:LYS:HG2	2.04	0.57
1:B:32:VAL:CG1	1:B:451:MET:HE3	2.34	0.57
1:B:1200:MET:N	1:B:1200:MET:SD	2.78	0.57
1:B:1651:THR:OG1	1:B:1665:VAL:HG11	2.03	0.57
1:B:1898:LYS:HA	1:B:1898:LYS:HE3	1.87	0.57
1:C:1062:LEU:HD22	1:C:1070:LEU:CD1	2.25	0.57
1:C:1654:LEU:CG	1:C:1661:LEU:HD23	2.33	0.57
1:B:2513:PHE:CD2	1:C:2513:PHE:CE2	2.91	0.57
1:C:653:CYS:SG	1:C:747:ALA:HB2	2.44	0.57
1:B:729:TYR:O	1:B:733:LEU:HD23	2.04	0.57
1:C:2054:TYR:CE2	1:C:2071:LEU:HD22	2.40	0.57
1:C:2381:TYR:HE2	1:D:2342:SER:CB	2.14	0.57
1:D:729:TYR:O	1:D:733:LEU:HD23	2.04	0.57
1:D:884:LEU:CD1	1:D:888:LEU:HD21	2.34	0.57
1:D:1023:MET:N	1:D:1023:MET:SD	2.78	0.57
1:D:2049:VAL:O	1:D:2053:ILE:CG1	2.46	0.57
1:A:7:PHE:CZ	1:B:374:LEU:HD12	2.39	0.56
1:A:2381:TYR:CE2	1:B:2342:SER:CB	2.87	0.56
1:B:1630:GLU:OE2	1:B:1630:GLU:O	2.23	0.56
1:C:2071:LEU:HD23	1:C:2114:LEU:HD22	1.87	0.56
1:D:1994:ASP:OD1	1:D:2049:VAL:CG1	2.52	0.56
1:A:2359:ILE:HD11	1:D:2375:LEU:CD2	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2368:SER:OG	1:B:2354:THR:HG21	2.04	0.56
1:C:884:LEU:HD12	1:C:884:LEU:O	2.05	0.56
1:C:1082:PHE:HD2	1:C:1617:LEU:HD13	1.70	0.56
1:C:1288:HIS:O	1:C:1292:THR:HG23	2.04	0.56
1:C:2011:GLU:H	1:C:2011:GLU:CD	2.05	0.56
1:C:2189:ARG:HG3	1:C:2189:ARG:HH11	1.70	0.56
1:C:2501:PHE:CB	1:D:2471:ARG:HH12	1.99	0.56
1:A:826:LYS:NZ	1:A:873:PHE:O	2.37	0.56
1:A:1235:PHE:O	1:A:1242:ASN:ND2	2.39	0.56
1:A:2342:SER:HB2	1:D:2381:TYR:HE2	1.70	0.56
1:B:318:GLU:HA	1:B:318:GLU:OE1	2.05	0.56
1:B:320:ASN:OD1	1:B:321:PRO:CD	2.54	0.56
1:B:826:LYS:NZ	1:B:873:PHE:O	2.37	0.56
1:B:835:GLU:OE2	1:B:836:PHE:N	2.37	0.56
1:B:1626:LEU:HB2	1:B:1695:LEU:HD21	1.87	0.56
1:B:2571:PHE:CE2	1:B:2575:VAL:CG2	2.88	0.56
1:C:729:TYR:O	1:C:733:LEU:HD23	2.05	0.56
1:C:1243:GLN:NE2	1:C:1266:HIS:O	2.38	0.56
1:C:1427:GLU:O	1:C:1428:MET:CE	2.54	0.56
1:C:2006:SER:O	1:C:2006:SER:OG	2.20	0.56
1:D:143:LEU:HB2	1:D:209:GLU:OE1	2.05	0.56
1:D:526:PHE:HZ	1:D:541:LEU:HD11	1.70	0.56
1:D:601:ASN:O	1:D:601:ASN:OD1	2.22	0.56
1:D:797:VAL:HG21	1:D:983:LEU:HD23	1.87	0.56
1:D:1929:ILE:HD12	1:D:1937:VAL:HG21	1.86	0.56
1:B:2050:GLY:C	1:B:2053:ILE:HG22	2.25	0.56
1:B:2144:CYS:SG	1:B:2570:TYR:CD1	2.98	0.56
1:C:2394:ASP:O	1:C:2480:LEU:CD2	2.54	0.56
1:D:2571:PHE:CE2	1:D:2575:VAL:HG23	2.40	0.56
1:A:374:LEU:HD12	1:D:7:PHE:CZ	2.39	0.56
1:B:605:LEU:CD1	1:B:609:HIS:HE1	2.11	0.56
1:B:755:LEU:HD13	1:B:759:LEU:CD1	2.36	0.56
1:B:1082:PHE:HD2	1:B:1617:LEU:HD13	1.70	0.56
1:C:885:THR:HA	1:C:888:LEU:HD12	1.86	0.56
1:D:745:TYR:OH	1:D:789:ASP:CB	2.42	0.56
1:C:473:ILE:HG22	1:C:477:GLU:OE2	2.05	0.56
1:C:489:ASN:C	1:C:491:GLN:OE1	2.44	0.56
1:C:1054:MET:CE	1:C:1057:ARG:HH22	2.16	0.56
1:C:1939:GLN:OE1	1:C:1939:GLN:O	2.23	0.56
1:D:1322:MET:CE	1:D:1326:THR:HG23	2.36	0.56
1:D:1999:LEU:O	1:D:2003:LEU:CD2	2.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:392:LEU:O	1:A:392:LEU:HD23	2.05	0.56
1:B:754:GLN:C	1:B:755:LEU:HD22	2.26	0.56
1:B:1331:ASP:OD1	1:B:1331:ASP:N	2.39	0.56
1:B:1735:LYS:HD3	1:B:1775:LEU:HD11	1.87	0.56
1:B:2145:GLN:NE2	1:B:2146:PHE:CD2	2.69	0.56
1:B:2534:LEU:HB3	1:B:2535:LYS:HD3	1.88	0.56
1:D:877:SER:O	1:D:881:LEU:N	2.35	0.56
1:D:1645:SER:CB	1:D:1731:GLU:OE1	2.53	0.56
1:B:778:CYS:SG	1:B:866:LEU:HD22	2.45	0.56
1:B:861:PHE:CE2	1:B:927:MET:HE3	2.41	0.56
1:B:2311:TYR:CA	1:B:2314:MET:HE2	2.36	0.56
1:C:17:TYR:HE1	1:C:24:GLY:HA2	1.69	0.56
1:C:606:LEU:HD13	1:C:648:THR:HG21	1.87	0.56
1:C:2497:ASP:HB3	1:D:2471:ARG:HE	1.71	0.56
1:D:1877:LEU:HD22	1:D:1892:LEU:CD1	2.33	0.56
1:D:2065:LYS:NZ	1:D:2066:GLN:CD	2.56	0.56
1:A:1082:PHE:HD2	1:A:1617:LEU:HD13	1.70	0.56
1:B:203:ASP:OD1	1:B:204:ASN:OD1	2.24	0.56
1:B:941:LEU:HD11	1:B:1200:MET:HE1	1.88	0.56
1:C:1688:LYS:HD3	1:C:1688:LYS:N	2.21	0.56
1:D:19:GLU:HG2	1:D:23:ASN:OD1	2.06	0.56
1:A:1331:ASP:N	1:A:1331:ASP:OD1	2.39	0.56
1:B:7:PHE:CZ	1:C:374:LEU:HD12	2.37	0.56
1:C:103:GLN:O	1:C:106:THR:CG2	2.53	0.56
1:C:1331:ASP:N	1:C:1331:ASP:OD1	2.39	0.56
1:D:32:VAL:HG22	1:D:451:MET:HE1	1.87	0.56
1:B:99:MET:HA	1:B:99:MET:CE	2.37	0.55
1:B:304:TYR:CD2	1:B:369:LEU:HD11	2.41	0.55
1:C:1176:LEU:HD11	1:C:1228:THR:HG22	1.87	0.55
1:D:2066:GLN:OE1	1:D:2066:GLN:HA	2.06	0.55
1:B:370:ASP:OD1	1:B:370:ASP:C	2.44	0.55
1:B:1333:VAL:CG1	1:B:1335:PHE:HE1	2.03	0.55
1:B:1793:MET:HG2	1:B:1870:MET:HE1	1.87	0.55
1:D:1033:GLU:OE2	1:D:1038:VAL:HG11	2.06	0.55
1:B:1986:MET:HG3	1:B:1990:LEU:HD12	1.88	0.55
1:C:734:LYS:HE2	1:C:926:THR:CA	2.35	0.55
1:C:1060:ILE:CG2	1:C:1628:PHE:CZ	2.89	0.55
1:D:1054:MET:HG3	1:D:1057:ARG:HH22	1.65	0.55
1:D:1221:MET:HE1	1:D:1221:MET:O	2.05	0.55
1:D:1235:PHE:O	1:D:1242:ASN:ND2	2.39	0.55
1:A:649:GLN:NE2	1:A:739:MET:O	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:649:GLN:NE2	1:B:739:MET:O	2.40	0.55
1:B:1380:ASN:OD1	1:B:1381:VAL:N	2.40	0.55
1:B:1745:LYS:HA	1:B:1745:LYS:CE	2.34	0.55
1:D:1593:GLU:HA	1:D:1593:GLU:OE2	2.07	0.55
1:A:854:GLU:OE1	1:A:854:GLU:N	2.37	0.55
1:A:1046:GLU:OE1	1:A:1048:ASP:HB2	2.07	0.55
1:B:265:LEU:CG	1:B:417:LEU:HD11	2.33	0.55
1:C:7:PHE:CZ	1:D:374:LEU:HD12	2.40	0.55
1:C:834:MET:HE3	1:C:876:TYR:CD1	2.42	0.55
1:C:1322:MET:HE2	1:C:1386:LYS:HD2	1.88	0.55
1:C:1528:THR:HA	1:C:1531:MET:CE	2.34	0.55
1:C:2394:ASP:CB	1:C:2480:LEU:HD22	2.36	0.55
1:D:1380:ASN:OD1	1:D:1381:VAL:N	2.40	0.55
1:D:1441:PHE:O	1:D:1445:THR:HG23	2.07	0.55
1:B:301:ASN:ND2	1:B:378:ASP:OD2	2.39	0.55
1:C:475:LEU:HA	1:C:478:ASP:OD2	2.07	0.55
1:C:1380:ASN:OD1	1:C:1381:VAL:N	2.40	0.55
1:C:2580:LYS:CA	1:C:2583:TYR:CE2	2.82	0.55
1:D:1189:MET:HE2	1:D:1189:MET:HA	1.89	0.55
1:A:1380:ASN:OD1	1:A:1381:VAL:N	2.40	0.55
1:A:1441:PHE:O	1:A:1445:THR:HG23	2.07	0.55
1:B:153:ASP:CG	1:B:156:GLY:H	2.09	0.55
1:B:2014:GLU:HA	1:B:2014:GLU:OE2	2.06	0.55
1:C:1235:PHE:O	1:C:1242:ASN:ND2	2.39	0.55
1:D:713:GLN:CD	1:D:713:GLN:N	2.60	0.55
1:A:877:SER:O	1:A:881:LEU:N	2.35	0.55
1:A:2362:VAL:CG2	1:D:2511:LEU:HD21	2.37	0.55
1:B:2383:PHE:CE2	1:B:2500:PHE:HD2	2.25	0.55
1:C:649:GLN:NE2	1:C:739:MET:O	2.40	0.55
1:D:1358:ASP:HA	1:D:1363:MET:HE3	1.88	0.55
1:D:2146:PHE:CE1	1:D:2186:ARG:HG3	2.41	0.55
1:A:972:LEU:HD21	1:A:1062:LEU:CD1	2.36	0.55
1:B:110:LYS:HA	1:B:110:LYS:HE3	1.89	0.55
1:B:2513:PHE:CD2	1:C:2513:PHE:HZ	2.23	0.55
1:C:195:HIS:HB2	1:C:215:CYS:SG	2.47	0.55
1:C:398:ILE:CG2	1:C:429:PHE:HE1	2.18	0.55
1:C:398:ILE:HG22	1:C:429:PHE:HE1	1.71	0.55
1:D:255:ASP:OD1	1:D:255:ASP:C	2.42	0.55
1:D:665:LEU:HG	1:D:732:GLN:NE2	2.22	0.55
1:D:968:LYS:HG3	1:D:1070:LEU:HD21	1.87	0.55
1:D:1239:ASN:ND2	1:D:1242:ASN:H	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1663:ILE:HG13	1:B:1752:GLU:HG3	1.89	0.54
1:C:888:LEU:HD22	1:C:971:ILE:CD1	2.37	0.54
1:D:1247:HIS:CD2	1:D:1250:LEU:HD22	2.42	0.54
1:D:2131:ARG:O	1:D:2131:ARG:CG	2.52	0.54
1:B:539:GLU:OE2	1:B:539:GLU:N	2.38	0.54
1:B:1481:SER:O	1:B:1481:SER:OG	2.25	0.54
1:B:2131:ARG:O	1:B:2131:ARG:CG	2.52	0.54
1:C:732:GLN:HG2	1:C:736:PHE:CE2	2.42	0.54
1:C:972:LEU:HD21	1:C:1062:LEU:CD1	2.36	0.54
1:D:1973:LEU:CD2	1:D:1992:LEU:CD1	2.48	0.54
1:D:2146:PHE:CD1	1:D:2186:ARG:HB2	2.42	0.54
1:A:861:PHE:HE2	1:A:966:GLU:HB2	1.72	0.54
1:A:1773:HIS:CE1	1:A:1777:MET:SD	3.01	0.54
1:C:354:LEU:CD1	1:C:398:ILE:HD12	2.33	0.54
1:D:649:GLN:NE2	1:D:739:MET:O	2.39	0.54
1:A:1481:SER:O	1:A:1481:SER:OG	2.25	0.54
1:B:19:GLU:CA	1:B:23:ASN:OD1	2.52	0.54
1:B:32:VAL:HG11	1:B:451:MET:HE3	1.88	0.54
1:C:2480:LEU:HD13	1:C:2493:ARG:HH11	1.68	0.54
1:A:805:GLU:O	1:A:807:PRO:HD3	2.07	0.54
1:A:2133:MET:HB2	1:A:2608:MET:CE	2.38	0.54
1:A:2513:PHE:CE2	1:D:2513:PHE:CD2	2.95	0.54
1:B:1427:GLU:O	1:B:1428:MET:HE1	2.08	0.54
1:B:1660:LYS:HA	1:B:1663:ILE:CG2	2.38	0.54
1:C:1898:LYS:N	1:C:1898:LYS:HD2	2.22	0.54
1:D:571:GLN:HB3	1:D:605:LEU:HD22	1.89	0.54
1:D:2131:ARG:HH11	1:D:2131:ARG:HG3	1.72	0.54
1:A:2379:LEU:CD1	1:A:2508:VAL:HG21	2.38	0.54
1:B:1441:PHE:O	1:B:1445:THR:HG23	2.07	0.54
1:A:884:LEU:CD1	1:A:888:LEU:HD21	2.37	0.54
1:A:986:ARG:O	1:A:990:LEU:HD23	2.08	0.54
1:A:2471:ARG:NH2	1:D:2477:GLY:C	2.56	0.54
1:C:601:ASN:O	1:C:602:ASN:ND2	2.37	0.54
1:B:1081:HIS:O	1:B:1084:GLN:NE2	2.33	0.54
1:C:158:GLU:CG	1:C:161:TRP:CH2	2.90	0.54
1:D:1885:ASN:ND2	1:D:1888:LEU:HD12	2.22	0.54
1:D:2194:ILE:HD13	1:D:2194:ILE:N	2.23	0.54
1:C:877:SER:O	1:C:881:LEU:N	2.35	0.54
1:C:1441:PHE:O	1:C:1445:THR:HG23	2.07	0.54
1:C:2009:ASP:HB2	1:C:2011:GLU:CD	2.28	0.54
1:D:2543:LEU:CD1	1:D:2605:MET:CA	2.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2604:ARG:NH1	1:A:2605:MET:HG3	2.22	0.54
1:B:144:GLU:HG3	1:B:199:TYR:CZ	2.43	0.54
1:B:607:GLU:OE2	1:B:607:GLU:C	2.46	0.54
1:B:1601:ALA:CA	1:B:1604:GLU:OE2	2.56	0.54
1:D:760:ILE:HD11	1:D:785:HIS:HE1	1.72	0.54
1:D:1593:GLU:OE2	1:D:1593:GLU:CA	2.55	0.54
1:D:1678:LYS:HD2	1:D:1684:ASN:OD1	2.08	0.54
1:A:2513:PHE:CD1	1:D:2510:ASN:HB3	2.43	0.53
1:C:1060:ILE:CG2	1:C:1628:PHE:CE1	2.91	0.53
1:D:252:LEU:CD1	1:D:417:LEU:CD1	2.86	0.53
1:D:1331:ASP:OD1	1:D:1331:ASP:N	2.39	0.53
1:B:19:GLU:CG	1:B:23:ASN:OD1	2.56	0.53
1:B:223:LEU:HD23	1:B:294:ARG:HH22	1.73	0.53
1:B:656:VAL:HB	1:B:739:MET:CE	2.38	0.53
1:B:782:LEU:HB2	1:B:866:LEU:HD13	1.89	0.53
1:B:1626:LEU:HD12	1:B:1695:LEU:CD1	2.38	0.53
1:C:1528:THR:N	1:C:1531:MET:HE2	2.23	0.53
1:C:2379:LEU:CD1	1:C:2508:VAL:HG21	2.38	0.53
1:D:766:ASP:OD2	1:D:769:LEU:HD21	2.08	0.53
1:A:606:LEU:CD1	1:A:648:THR:HG21	2.38	0.53
1:B:990:LEU:CD2	1:B:1035:MET:CE	2.86	0.53
1:B:1060:ILE:CG2	1:B:1628:PHE:CZ	2.92	0.53
1:B:1427:GLU:O	1:B:1428:MET:CE	2.56	0.53
1:B:2216:ASN:OD1	1:B:2342:SER:HA	2.08	0.53
1:B:2379:LEU:CD1	1:B:2508:VAL:HG21	2.38	0.53
1:B:2545:ARG:HB3	1:B:2545:ARG:HH11	1.71	0.53
1:D:1060:ILE:CG2	1:D:1628:PHE:CZ	2.92	0.53
1:A:89:LEU:HD11	1:B:1927:LEU:HD11	1.89	0.53
1:A:878:PHE:CD2	1:A:878:PHE:C	2.82	0.53
1:B:612:LYS:O	1:B:615:VAL:HG22	2.08	0.53
1:C:598:LEU:HD23	1:C:598:LEU:C	2.29	0.53
1:C:840:TYR:CE2	1:C:863:VAL:CG2	2.82	0.53
1:D:1125:GLU:OE2	1:D:1125:GLU:CA	2.51	0.53
1:D:2000:LEU:HA	1:D:2003:LEU:HG	1.90	0.53
1:B:656:VAL:CG1	1:B:739:MET:HE3	2.36	0.53
1:B:786:VAL:O	1:B:791:GLN:HG2	2.09	0.53
1:C:17:TYR:HE1	1:C:24:GLY:CA	2.21	0.53
1:C:2545:ARG:HB3	1:C:2545:ARG:HH11	1.73	0.53
1:D:656:VAL:CB	1:D:739:MET:HE1	2.38	0.53
1:D:760:ILE:O	1:D:764:MET:HG2	2.09	0.53
1:D:1936:LEU:O	1:D:1940:THR:HG22	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2191:MET:HE3	1:D:2192:PRO:HD2	1.91	0.53
1:D:2571:PHE:CE2	1:D:2575:VAL:CG2	2.92	0.53
1:A:665:LEU:HD21	1:A:736:PHE:CZ	2.42	0.53
1:B:1251:HIS:HA	1:B:1254:LEU:HG	1.90	0.53
1:B:2467:ASN:ND2	1:B:2471:ARG:HD3	2.24	0.53
1:B:2497:ASP:HB2	1:C:2471:ARG:NH1	2.05	0.53
1:C:575:ALA:HB2	1:C:598:LEU:HD11	1.91	0.53
1:D:403:VAL:HB	1:D:416:MET:CE	2.39	0.53
1:D:634:LEU:HD12	1:D:652:ILE:CD1	2.39	0.53
1:D:2604:ARG:HE	1:D:2605:MET:CG	2.20	0.53
1:A:1415:ASN:OD1	1:A:1419:HIS:ND1	2.40	0.53
1:B:571:GLN:HB3	1:B:605:LEU:HD22	1.89	0.53
1:B:1183:CYS:CA	1:B:1193:GLN:OE1	2.56	0.53
1:B:1393:LEU:HD12	1:B:1430:GLU:HG3	1.91	0.53
1:B:1426:VAL:C	1:B:1428:MET:HE2	2.18	0.53
1:C:695:THR:HG22	1:C:705:GLU:CG	2.39	0.53
1:C:2513:PHE:CD2	1:D:2513:PHE:HE2	2.26	0.53
1:A:2471:ARG:HH22	1:D:2477:GLY:HA3	1.72	0.53
1:B:200:GLU:HG3	1:B:208:LYS:HD2	1.90	0.53
1:B:1648:ILE:HG23	1:B:1736:LEU:HD22	1.91	0.53
1:B:2510:ASN:HB3	1:C:2513:PHE:CD1	2.44	0.53
1:D:786:VAL:O	1:D:791:GLN:HG2	2.09	0.53
1:D:1948:CYS:SG	1:D:2003:LEU:HD22	2.48	0.53
1:D:1983:LYS:CA	1:D:1983:LYS:CE	2.80	0.53
1:B:2550:ASN:O	1:B:2550:ASN:CG	2.47	0.53
1:C:1316:LYS:O	1:C:1320:MET:SD	2.67	0.53
1:C:2009:ASP:OD2	1:C:2011:GLU:OE2	2.27	0.53
1:C:103:GLN:HA	1:C:106:THR:HG22	1.91	0.53
1:C:1932:ASP:OD1	1:C:1932:ASP:O	2.27	0.53
1:D:695:THR:HG22	1:D:705:GLU:CG	2.39	0.53
1:D:1222:MET:HE2	1:D:1222:MET:CA	2.38	0.53
1:C:836:PHE:O	1:C:836:PHE:HD1	1.92	0.52
1:D:110:LYS:HA	1:D:110:LYS:HE3	1.90	0.52
1:C:158:GLU:HG2	1:C:161:TRP:CH2	2.43	0.52
1:C:878:PHE:CD1	1:C:882:LEU:HD21	2.44	0.52
1:D:1944:LEU:HA	1:D:1947:TYR:CD2	2.44	0.52
1:B:834:MET:HE3	1:B:876:TYR:CD1	2.45	0.52
1:B:1349:MET:SD	1:B:1349:MET:C	2.88	0.52
1:C:734:LYS:HE2	1:C:926:THR:CB	2.39	0.52
1:C:2026:VAL:HG21	1:C:2070:LEU:CB	2.39	0.52
1:A:1081:HIS:O	1:A:1084:GLN:NE2	2.33	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1415:ASN:OD1	1:B:1419:HIS:ND1	2.40	0.52
1:B:1648:ILE:CD1	1:B:1731:GLU:CB	2.83	0.52
1:C:734:LYS:CD	1:C:926:THR:OG1	2.56	0.52
1:C:1176:LEU:HD12	1:C:1224:ILE:HG23	1.92	0.52
1:D:1176:LEU:HD12	1:D:1224:ILE:HG23	1.92	0.52
1:D:2059:GLN:OE1	1:D:2062:ARG:NH2	2.43	0.52
1:D:2379:LEU:CD1	1:D:2508:VAL:HG21	2.38	0.52
1:B:300:TRP:CZ2	1:B:375:GLN:NE2	2.78	0.52
1:B:1235:PHE:O	1:B:1242:ASN:ND2	2.39	0.52
1:C:892:ILE:HD12	1:C:1058:VAL:HG11	1.91	0.52
1:C:1525:CYS:O	1:C:1528:THR:OG1	2.23	0.52
1:C:2543:LEU:HD23	1:C:2548:PHE:HE2	1.72	0.52
1:A:786:VAL:HG21	1:A:866:LEU:HD11	1.92	0.52
1:A:935:VAL:CB	1:A:973:GLU:OE1	2.56	0.52
1:A:1176:LEU:HD12	1:A:1224:ILE:HG23	1.92	0.52
1:B:760:ILE:HD12	1:B:785:HIS:CE1	2.45	0.52
1:B:1393:LEU:HD21	1:B:1421:TYR:CD2	2.44	0.52
1:C:461:GLU:O	1:C:461:GLU:OE2	2.28	0.52
1:C:1322:MET:CE	1:C:1386:LYS:CG	2.77	0.52
1:D:355:VAL:HG22	1:D:356:ALA:H	1.75	0.52
1:D:1349:MET:SD	1:D:1349:MET:C	2.88	0.52
1:B:1060:ILE:CG2	1:B:1628:PHE:CE1	2.93	0.52
1:B:1919:THR:HG23	1:B:1924:LEU:CD1	2.40	0.52
1:B:1919:THR:HG21	1:B:1928:TYR:OH	2.09	0.52
1:B:1975:LEU:HD23	1:B:2024:GLU:OE1	2.10	0.52
1:C:2394:ASP:HB3	1:C:2480:LEU:HD22	1.92	0.52
1:A:497:MET:SD	1:A:498:VAL:N	2.83	0.52
1:A:1044:MET:CE	1:A:1044:MET:H	2.22	0.52
1:B:2571:PHE:CE2	1:B:2590:VAL:CG1	2.81	0.52
1:C:2510:ASN:HB3	1:D:2513:PHE:CD1	2.45	0.52
1:D:497:MET:SD	1:D:498:VAL:N	2.83	0.52
1:A:884:LEU:HD12	1:A:884:LEU:O	2.10	0.52
1:A:1288:HIS:HE1	1:D:138:ARG:HH22	0.57	0.52
1:B:403:VAL:HB	1:B:416:MET:CE	2.39	0.52
1:B:1915:CYS:HB3	1:B:1969:ILE:HD12	1.92	0.52
1:C:398:ILE:CD1	1:C:419:THR:HG22	2.27	0.52
1:C:976:GLN:O	1:C:976:GLN:NE2	2.43	0.52
1:D:405:ILE:HD11	1:D:416:MET:HB2	1.92	0.52
1:D:976:GLN:NE2	1:D:976:GLN:O	2.43	0.52
1:D:2026:VAL:HG21	1:D:2070:LEU:CB	2.39	0.52
1:D:2071:LEU:C	1:D:2114:LEU:HD23	2.29	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2471:ARG:HH22	1:D:2478:ASP:N	2.07	0.51
1:B:124:LEU:HB2	1:B:133:LEU:HD12	1.92	0.51
1:B:1176:LEU:HD12	1:B:1224:ILE:HG23	1.92	0.51
1:B:2222:PHE:HD1	1:B:2278:ILE:CG1	2.22	0.51
1:C:1427:GLU:O	1:C:1428:MET:HE1	2.10	0.51
1:D:1175:ILE:O	1:D:1179:LEU:HD22	2.07	0.51
1:D:1644:LEU:HB3	1:D:1731:GLU:OE2	2.09	0.51
1:B:964:VAL:HG12	1:B:968:LYS:NZ	2.25	0.51
1:B:2143:ILE:HD13	1:B:2143:ILE:N	2.25	0.51
1:C:103:GLN:HA	1:C:103:GLN:OE1	2.09	0.51
1:C:265:LEU:HD21	1:C:417:LEU:HD11	1.92	0.51
1:C:834:MET:HE1	1:C:876:TYR:CG	2.45	0.51
1:C:1060:ILE:HG22	1:C:1628:PHE:HZ	1.74	0.51
1:C:2278:ILE:HG22	1:C:2282:LEU:HD12	1.92	0.51
1:D:111:VAL:HG13	1:D:114:ASP:OD2	2.10	0.51
1:D:1221:MET:SD	1:D:1221:MET:O	2.68	0.51
1:D:1221:MET:SD	1:D:1222:MET:N	2.82	0.51
1:A:1915:CYS:HB3	1:A:1969:ILE:HD12	1.92	0.51
1:B:110:LYS:C	1:B:110:LYS:CD	2.79	0.51
1:B:2055:ILE:HG23	1:B:2137:VAL:HG12	1.91	0.51
1:C:962:ILE:HA	1:C:965:MET:HG2	1.92	0.51
1:D:252:LEU:HD11	1:D:417:LEU:CD1	2.41	0.51
1:D:1023:MET:HE2	1:D:1594:LYS:HD2	1.92	0.51
1:D:1243:GLN:OE1	1:D:1271:ASN:ND2	2.44	0.51
1:D:1881:CYS:SG	1:D:1889:GLN:CA	2.99	0.51
1:D:1982:CYS:SG	1:D:1983:LYS:CE	2.98	0.51
1:D:2146:PHE:HE1	1:D:2186:ARG:HA	1.74	0.51
1:A:1243:GLN:OE1	1:A:1271:ASN:ND2	2.44	0.51
1:A:1269:LEU:HD23	1:A:1270:ASN:OD1	2.11	0.51
1:B:111:VAL:HG13	1:B:114:ASP:OD2	2.10	0.51
1:B:976:GLN:NE2	1:B:976:GLN:O	2.43	0.51
1:B:1626:LEU:CD1	1:B:1695:LEU:HD13	2.39	0.51
1:B:1660:LYS:HA	1:B:1663:ILE:HG22	1.92	0.51
1:B:2050:GLY:O	1:B:2053:ILE:HG23	2.10	0.51
1:B:2381:TYR:CE2	1:C:2342:SER:HB2	2.44	0.51
1:B:2465:VAL:HG22	1:B:2476:VAL:HG21	1.92	0.51
1:C:2580:LYS:CA	1:C:2583:TYR:CD2	2.79	0.51
1:A:1525:CYS:O	1:A:1528:THR:OG1	2.23	0.51
1:A:2278:ILE:HG22	1:A:2282:LEU:HD12	1.92	0.51
1:B:1243:GLN:OE1	1:B:1271:ASN:ND2	2.44	0.51
1:B:1358:ASP:HA	1:B:1363:MET:HE1	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:866:LEU:C	1:D:870:LEU:HD23	2.27	0.51
1:D:1060:ILE:CG2	1:D:1628:PHE:CE1	2.93	0.51
1:D:1654:LEU:HD22	1:D:1661:LEU:HD23	1.93	0.51
1:D:1736:LEU:CD1	1:D:1740:LEU:HD11	2.41	0.51
1:A:976:GLN:NE2	1:A:976:GLN:O	2.43	0.51
1:A:1197:LEU:HB2	1:A:1235:PHE:HE1	1.76	0.51
1:B:1656:GLU:OE2	1:B:1656:GLU:C	2.49	0.51
1:B:1908:LEU:HD12	1:B:1944:LEU:HD21	1.92	0.51
1:B:2511:LEU:HD21	1:C:2362:VAL:HG23	1.93	0.51
1:C:1415:ASN:OD1	1:C:1419:HIS:ND1	2.40	0.51
1:C:2226:MET:HE1	1:C:2226:MET:HA	1.93	0.51
1:D:198:ASN:OD1	1:D:198:ASN:O	2.29	0.51
1:A:2026:VAL:HG21	1:A:2070:LEU:CB	2.39	0.51
1:B:256:GLU:OE2	1:B:258:LYS:C	2.49	0.51
1:B:2535:LYS:HD3	1:B:2535:LYS:N	2.25	0.51
1:C:1269:LEU:HD23	1:C:1270:ASN:OD1	2.11	0.51
1:C:2155:LEU:HD22	1:C:2178:LEU:HD11	1.92	0.51
1:C:2511:LEU:HD13	1:D:2358:VAL:HG12	1.92	0.51
1:D:61:PRO:HG2	1:D:108:ASN:OD1	2.11	0.51
1:D:618:PHE:HB3	1:D:634:LEU:HD21	1.92	0.51
1:D:1915:CYS:HB3	1:D:1969:ILE:HD12	1.93	0.51
1:D:1919:THR:HG23	1:D:1924:LEU:CD1	2.40	0.51
1:D:2130:ASP:CG	1:D:2132:SER:OG	2.48	0.51
1:D:2146:PHE:CE1	1:D:2186:ARG:CB	2.94	0.51
1:A:2460:MET:HA	1:A:2460:MET:CE	2.41	0.51
1:B:32:VAL:O	1:B:32:VAL:HG22	2.10	0.51
1:B:2130:ASP:CG	1:B:2132:SER:OG	2.48	0.51
1:C:1189:MET:N	1:C:1189:MET:CE	2.74	0.51
1:C:2510:ASN:HB3	1:D:2513:PHE:CE1	2.46	0.51
1:D:262:GLN:O	1:D:264:PHE:CE1	2.64	0.51
1:D:1179:LEU:HD13	1:D:1182:MET:HE3	1.87	0.51
1:D:1658:GLU:OE1	1:D:1658:GLU:HA	2.11	0.51
1:D:1983:LYS:HD2	1:D:1983:LYS:H	1.72	0.51
1:B:1975:LEU:HD11	1:B:2025:LEU:HD11	1.93	0.51
1:C:554:ARG:NH1	1:C:588:ASP:OD2	2.44	0.51
1:C:1915:CYS:HB3	1:C:1969:ILE:HD12	1.93	0.51
1:D:32:VAL:HG13	1:D:451:MET:HE3	1.91	0.51
1:A:578:PHE:CZ	1:A:595:ILE:HD12	2.46	0.51
1:A:2513:PHE:HZ	1:D:2513:PHE:CD2	2.28	0.51
1:B:694:LEU:HD21	1:B:708:VAL:CG2	2.40	0.51
1:B:1658:GLU:OE1	1:B:1658:GLU:HA	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:578:PHE:CZ	1:C:595:ILE:HD12	2.46	0.51
1:C:786:VAL:HG21	1:C:866:LEU:HD11	1.93	0.51
1:D:578:PHE:CZ	1:D:595:ILE:HD12	2.46	0.51
1:D:1092:PHE:CA	1:D:1095:VAL:HG23	2.40	0.51
1:D:1773:HIS:HB2	1:D:1888:LEU:HD21	1.93	0.51
1:A:352:TYR:CE1	1:A:394:THR:HG21	2.46	0.50
1:B:990:LEU:HD22	1:B:1035:MET:HE1	1.92	0.50
1:B:1050:GLU:HG2	1:B:1054:MET:CE	2.39	0.50
1:B:1648:ILE:HD12	1:B:1731:GLU:HB3	1.89	0.50
1:B:2543:LEU:HD23	1:B:2548:PHE:CE1	2.47	0.50
1:C:1289:LEU:HD13	1:C:1299:TYR:CE1	2.40	0.50
1:D:1193:GLN:CG	1:D:1197:LEU:HD11	2.40	0.50
1:D:1525:CYS:O	1:D:1528:THR:OG1	2.23	0.50
1:A:1654:LEU:HD22	1:A:1661:LEU:HD23	1.93	0.50
1:A:1658:GLU:OE1	1:A:1658:GLU:HA	2.11	0.50
1:A:2543:LEU:HD23	1:A:2548:PHE:CE1	2.47	0.50
1:B:1322:MET:CB	1:B:1383:THR:HG22	2.42	0.50
1:B:1886:ARG:C	1:B:1890:ASN:OD1	2.44	0.50
1:C:1589:LYS:H	1:C:1589:LYS:CD	2.12	0.50
1:B:424:GLU:N	1:B:424:GLU:OE2	2.44	0.50
1:B:1393:LEU:HD12	1:B:1430:GLU:CG	2.42	0.50
1:D:1655:MET:HE2	1:D:1656:GLU:CA	2.40	0.50
1:D:1999:LEU:O	1:D:2003:LEU:CG	2.55	0.50
1:D:265:LEU:CD1	1:D:417:LEU:HD21	2.42	0.50
1:D:615:VAL:HG13	1:D:634:LEU:HD11	1.92	0.50
1:D:694:LEU:HD12	1:D:711:LEU:HD13	1.93	0.50
1:D:1322:MET:CB	1:D:1383:THR:HG22	2.42	0.50
1:B:138:ARG:NH2	1:C:1288:HIS:NE2	2.15	0.50
1:B:1183:CYS:O	1:B:1193:GLN:NE2	2.42	0.50
1:C:401:THR:CG2	1:C:403:VAL:HG22	2.42	0.50
1:C:734:LYS:CE	1:C:926:THR:CA	2.89	0.50
1:A:71:TYR:CE2	1:A:94:GLN:CB	2.92	0.50
1:A:2133:MET:CB	1:A:2608:MET:CE	2.90	0.50
1:A:2155:LEU:HD22	1:A:2178:LEU:HD11	1.92	0.50
1:B:578:PHE:CE2	1:B:595:ILE:HD11	2.46	0.50
1:B:1348:MET:HE2	1:B:1362:LEU:H	1.76	0.50
1:B:1773:HIS:HB2	1:B:1888:LEU:HD21	1.93	0.50
1:B:2534:LEU:HD23	1:B:2535:LYS:CE	2.39	0.50
1:C:1286:PHE:CE2	1:C:1302:PHE:CZ	2.80	0.50
1:D:2029:ILE:HD13	1:D:2054:TYR:HA	1.94	0.50
1:D:2278:ILE:HG22	1:D:2282:LEU:HD12	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2480:LEU:HD12	1:D:2493:ARG:NH1	2.27	0.50
1:B:401:THR:HG21	1:B:416:MET:HE3	1.93	0.50
1:B:656:VAL:CB	1:B:739:MET:CE	2.90	0.50
1:B:884:LEU:CD1	1:B:888:LEU:HD21	2.41	0.50
1:B:1199:ASN:HB2	1:B:1200:MET:SD	2.51	0.50
1:D:28:THR:HG21	1:D:152:LEU:CD1	2.40	0.50
1:A:2375:LEU:HD22	1:B:2359:ILE:HD11	1.90	0.50
1:B:1269:LEU:HD23	1:B:1270:ASN:OD1	2.11	0.50
1:C:892:ILE:HD12	1:C:1058:VAL:CG1	2.41	0.50
1:D:178:VAL:CB	1:D:181:ASP:OD2	2.58	0.50
1:D:537:ARG:HB3	1:D:539:GLU:OE2	2.12	0.50
1:D:1481:SER:O	1:D:1481:SER:OG	2.25	0.50
1:B:141:ALA:HB1	1:B:209:GLU:OE2	2.12	0.50
1:B:227:PHE:CE2	1:B:228:ARG:HG3	2.47	0.50
1:B:578:PHE:CE1	1:B:595:ILE:HD11	2.46	0.50
1:B:879:SER:HA	1:B:882:LEU:HD12	1.94	0.50
1:B:1317:CYS:HA	1:B:1320:MET:CE	2.42	0.50
1:B:2375:LEU:HD21	1:C:2359:ILE:HD11	1.93	0.50
1:C:1176:LEU:CD1	1:C:1228:THR:HG22	2.42	0.50
1:C:2460:MET:HA	1:C:2463:VAL:HG12	1.94	0.50
1:D:972:LEU:HD12	1:D:972:LEU:H	1.77	0.50
1:D:1948:CYS:SG	1:D:2003:LEU:CD2	3.00	0.50
1:D:2543:LEU:HD11	1:D:2605:MET:CA	2.39	0.50
1:C:158:GLU:HB3	1:C:189:ASN:HD21	1.77	0.49
1:C:1322:MET:HE1	1:C:1386:LYS:CD	2.35	0.49
1:D:1678:LYS:HG3	1:D:1680:GLY:H	1.77	0.49
1:D:1738:CYS:SG	1:D:1775:LEU:CD1	3.00	0.49
1:B:1254:LEU:N	1:B:1254:LEU:HD23	2.27	0.49
1:B:1654:LEU:HD22	1:B:1661:LEU:HD23	1.93	0.49
1:B:2278:ILE:HG22	1:B:2282:LEU:HD12	1.92	0.49
1:C:1593:GLU:HG3	1:C:1594:LYS:CE	2.39	0.49
1:C:1673:LEU:CD2	1:C:1760:LEU:HD22	2.42	0.49
1:D:2144:CYS:HA	1:D:2182:MET:CE	2.42	0.49
1:D:2604:ARG:NE	1:D:2605:MET:HG2	2.25	0.49
1:A:2480:LEU:HD12	1:A:2493:ARG:NH1	2.27	0.49
1:B:695:THR:CB	1:B:705:GLU:HG3	2.42	0.49
1:B:2480:LEU:HD12	1:B:2493:ARG:NH1	2.27	0.49
1:B:2511:LEU:HD13	1:C:2358:VAL:HG12	1.94	0.49
1:C:792:GLU:OE2	1:C:793:LEU:O	2.30	0.49
1:C:861:PHE:HE2	1:C:966:GLU:HB2	1.76	0.49
1:C:1322:MET:CB	1:C:1383:THR:HG22	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:255:ASP:HB3	1:D:264:PHE:HZ	1.76	0.49
1:D:879:SER:HA	1:D:882:LEU:HD12	1.94	0.49
1:B:834:MET:SD	1:B:876:TYR:CZ	3.06	0.49
1:B:2571:PHE:HE2	1:B:2575:VAL:HG21	1.76	0.49
1:C:840:TYR:HE2	1:C:859:LEU:HG	1.77	0.49
1:C:1207:LEU:O	1:C:1211:GLN:CD	2.50	0.49
1:D:741:LEU:HD12	1:D:742:ASP:N	2.25	0.49
1:D:2071:LEU:HA	1:D:2114:LEU:HD23	1.95	0.49
1:A:879:SER:HA	1:A:882:LEU:HD12	1.94	0.49
1:A:1322:MET:CB	1:A:1383:THR:HG22	2.42	0.49
1:A:2459:LEU:HB2	1:B:2220:ALA:O	2.12	0.49
1:B:223:LEU:HD23	1:B:294:ARG:NH2	2.27	0.49
1:B:611:THR:OG1	1:B:612:LYS:N	2.46	0.49
1:B:1386:LYS:O	1:B:1390:LEU:HD23	2.12	0.49
1:C:92:LYS:HB3	1:D:1924:LEU:CD2	2.39	0.49
1:C:315:LEU:HD11	1:C:354:LEU:HD22	1.93	0.49
1:C:1777:MET:SD	1:C:1777:MET:O	2.70	0.49
1:D:1663:ILE:HD13	1:D:1752:GLU:HG3	1.93	0.49
1:D:2003:LEU:HD23	1:D:2003:LEU:N	2.26	0.49
1:A:2222:PHE:HD1	1:A:2278:ILE:CG1	2.24	0.49
1:A:2511:LEU:HD13	1:B:2358:VAL:HG12	1.94	0.49
1:B:710:GLN:HA	1:B:713:GLN:OE1	2.13	0.49
1:D:28:THR:HG22	1:D:152:LEU:HD11	1.95	0.49
1:D:1023:MET:HE2	1:D:1594:LYS:HD3	1.94	0.49
1:D:2397:LEU:HD13	1:D:2479:ILE:HG21	1.91	0.49
1:B:1601:ALA:N	1:B:1604:GLU:OE2	2.46	0.49
1:B:2144:CYS:HA	1:B:2182:MET:CE	2.43	0.49
1:C:734:LYS:HE2	1:C:738:ARG:NH2	2.28	0.49
1:C:868:HIS:O	1:C:872:TYR:HD1	1.96	0.49
1:D:1736:LEU:HD11	1:D:1740:LEU:HD11	1.95	0.49
1:D:1863:MET:HA	1:D:1863:MET:CE	2.42	0.49
1:A:606:LEU:HD13	1:A:648:THR:HG21	1.94	0.49
1:A:611:THR:OG1	1:A:612:LYS:N	2.46	0.49
1:A:1932:ASP:OD1	1:A:1932:ASP:O	2.31	0.49
1:A:2189:ARG:HG2	1:A:2189:ARG:HH11	1.77	0.49
1:B:964:VAL:HG12	1:B:968:LYS:HZ3	1.77	0.49
1:C:612:LYS:HD3	1:C:612:LYS:C	2.33	0.49
1:C:1960:VAL:HG23	1:C:2003:LEU:HD22	1.95	0.49
1:D:1593:GLU:OE1	1:D:1597:ASP:OD2	2.30	0.49
1:D:1943:THR:O	1:D:1947:TYR:CD2	2.66	0.49
1:D:1994:ASP:OD1	1:D:2049:VAL:HG11	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2054:TYR:CE1	1:B:2058:LEU:HD11	2.47	0.49
1:B:2130:ASP:O	1:B:2131:ARG:HB3	2.12	0.49
1:C:398:ILE:CG2	1:C:399:GLN:N	2.76	0.49
1:C:1615:SER:HB2	1:C:1687:ARG:NH1	2.28	0.49
1:C:2397:LEU:HD12	1:C:2479:ILE:CG2	2.42	0.49
1:D:480:VAL:HG11	1:D:493:VAL:HG22	1.95	0.49
1:D:1221:MET:CE	1:D:1225:LEU:HD12	2.24	0.49
1:D:2130:ASP:O	1:D:2131:ARG:HB3	2.12	0.49
1:A:7:PHE:CD2	1:B:374:LEU:HD12	2.44	0.49
1:A:836:PHE:C	1:A:836:PHE:CD1	2.86	0.49
1:C:1729:ASP:C	1:C:1729:ASP:OD1	2.52	0.49
1:C:2481:ARG:CZ	1:D:2402:LEU:CD1	2.87	0.49
1:D:704:HIS:C	1:D:705:GLU:OE2	2.51	0.49
1:B:1673:LEU:CD2	1:B:1760:LEU:HD22	2.42	0.48
1:C:89:LEU:HD11	1:D:1927:LEU:HD11	1.95	0.48
1:C:611:THR:OG1	1:C:612:LYS:N	2.46	0.48
1:C:1211:GLN:N	1:C:1211:GLN:CD	2.65	0.48
1:C:2307:PHE:CB	1:C:2314:MET:SD	3.01	0.48
1:D:2029:ILE:HD13	1:D:2054:TYR:CA	2.43	0.48
1:D:2030:LYS:HE3	1:D:2114:LEU:HD11	1.95	0.48
1:A:2355:LEU:H	1:D:2371:LEU:CD2	2.25	0.48
1:B:656:VAL:HG21	1:B:739:MET:CE	2.43	0.48
1:B:1525:CYS:O	1:B:1528:THR:OG1	2.23	0.48
1:B:1957:THR:OG1	1:B:2007:ARG:NH2	2.46	0.48
1:B:1960:VAL:HG23	1:B:2003:LEU:HD22	1.95	0.48
1:C:1658:GLU:HB3	1:C:1661:LEU:HB3	1.95	0.48
1:D:1986:MET:SD	1:D:1990:LEU:HG	2.53	0.48
1:A:2513:PHE:CD2	1:B:2513:PHE:HE2	2.31	0.48
1:B:1426:VAL:C	1:B:1428:MET:HE1	2.33	0.48
1:B:2029:ILE:HD13	1:B:2054:TYR:CA	2.43	0.48
1:C:497:MET:HA	1:C:497:MET:CE	2.43	0.48
1:B:1235:PHE:CD1	1:B:1242:ASN:CG	2.73	0.48
1:C:1957:THR:OG1	1:C:2007:ARG:NH2	2.46	0.48
1:D:2069:HIS:O	1:D:2069:HIS:HD2	1.95	0.48
1:A:964:VAL:C	1:A:968:LYS:HZ3	2.17	0.48
1:A:2359:ILE:HD11	1:D:2375:LEU:HD21	1.93	0.48
1:B:236:LYS:HG3	1:B:239:ASP:OD2	2.13	0.48
1:C:545:LYS:HD3	1:D:1394:GLU:OE1	2.13	0.48
1:C:1207:LEU:HD13	1:C:1249:HIS:ND1	2.29	0.48
1:C:2371:LEU:HB3	1:D:2355:LEU:HD12	1.96	0.48
1:D:1226:ARG:O	1:D:1230:GLN:HG3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1986:MET:HG3	1:D:1990:LEU:HD12	1.94	0.48
1:A:1957:THR:OG1	1:A:2007:ARG:NH2	2.46	0.48
1:B:265:LEU:HG	1:B:417:LEU:CD1	2.39	0.48
1:B:2316:MET:HA	1:B:2316:MET:CE	2.42	0.48
1:D:1415:ASN:OD1	1:D:1419:HIS:ND1	2.40	0.48
1:D:1888:LEU:O	1:D:1892:LEU:HD23	2.13	0.48
1:D:1986:MET:SD	1:D:1990:LEU:CD1	3.02	0.48
1:B:391:HIS:O	1:B:395:ASN:N	2.46	0.48
1:B:1235:PHE:CD1	1:B:1235:PHE:C	2.83	0.48
1:B:1888:LEU:O	1:B:1892:LEU:HD23	2.14	0.48
1:B:2029:ILE:HD13	1:B:2054:TYR:HA	1.94	0.48
1:D:1957:THR:OG1	1:D:2007:ARG:NH2	2.46	0.48
1:A:2222:PHE:HD1	1:A:2278:ILE:HG13	1.78	0.48
1:C:1669:LEU:HD23	1:C:1669:LEU:N	2.28	0.48
1:D:391:HIS:O	1:D:395:ASN:N	2.46	0.48
1:D:611:THR:OG1	1:D:612:LYS:N	2.46	0.48
1:D:766:ASP:HB3	1:D:769:LEU:HD11	1.96	0.48
1:D:1589:LYS:HD2	1:D:1589:LYS:C	2.34	0.48
1:D:1665:VAL:O	1:D:1669:LEU:HG	2.13	0.48
1:A:1994:ASP:C	1:A:1994:ASP:OD1	2.52	0.48
1:A:2054:TYR:CE1	1:A:2058:LEU:HD11	2.47	0.48
1:C:103:GLN:C	1:C:106:THR:HG22	2.34	0.48
1:C:1188:GLN:HB2	1:C:1189:MET:HE2	1.96	0.48
1:D:526:PHE:CE1	1:D:538:LEU:CD2	2.96	0.48
1:D:1322:MET:HE3	1:D:1322:MET:HA	1.95	0.48
1:A:392:LEU:HD23	1:A:392:LEU:C	2.35	0.48
1:A:485:ASP:OD2	1:A:502:ASN:ND2	2.44	0.48
1:A:1056:LEU:HD11	1:A:1082:PHE:HZ	1.79	0.48
1:A:1960:VAL:HG23	1:A:2003:LEU:HD22	1.95	0.48
1:B:642:HIS:C	1:B:643:ILE:HD13	2.34	0.48
1:B:782:LEU:CD1	1:B:865:SER:OG	2.61	0.48
1:B:1190:ARG:HA	1:B:1193:GLN:NE2	2.29	0.48
1:B:1543:ASP:OD1	1:B:1544:LEU:N	2.46	0.48
1:C:391:HIS:O	1:C:395:ASN:N	2.46	0.48
1:C:734:LYS:HE3	1:C:926:THR:CB	2.43	0.48
1:C:2394:ASP:O	1:C:2480:LEU:HD23	2.13	0.48
1:B:755:LEU:HD13	1:B:759:LEU:HD13	1.95	0.47
1:B:1044:MET:H	1:B:1044:MET:CE	2.27	0.47
1:B:2545:ARG:HH11	1:B:2545:ARG:CB	2.26	0.47
1:C:734:LYS:NZ	1:C:738:ARG:NH1	2.62	0.47
1:C:1195:ARG:O	1:C:1199:ASN:OD1	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1286:PHE:HE2	1:C:1302:PHE:CE2	2.29	0.47
1:C:2604:ARG:HH12	1:C:2605:MET:HE2	1.79	0.47
1:D:485:ASP:OD2	1:D:502:ASN:ND2	2.44	0.47
1:D:1772:PHE:O	1:D:1776:MET:CE	2.62	0.47
1:A:965:MET:HE1	1:A:968:LYS:CE	2.43	0.47
1:B:885:THR:HB	1:B:978:ILE:HD13	1.96	0.47
1:B:990:LEU:CD2	1:B:1035:MET:HE1	2.44	0.47
1:B:2178:LEU:HD13	1:B:2569:LEU:HD22	1.96	0.47
1:C:601:ASN:C	1:C:602:ASN:HD22	2.17	0.47
1:C:1044:MET:CE	1:C:1044:MET:H	2.27	0.47
1:D:1044:MET:CE	1:D:1044:MET:H	2.27	0.47
1:D:1885:ASN:HD21	1:D:1888:LEU:HG	1.79	0.47
1:A:352:TYR:HD1	1:A:394:THR:HG21	1.78	0.47
1:B:494:LEU:CD2	1:B:555:LEU:HD23	2.44	0.47
1:C:836:PHE:O	1:C:836:PHE:CD1	2.68	0.47
1:C:2459:LEU:HB2	1:D:2220:ALA:O	2.14	0.47
1:D:786:VAL:HG21	1:D:866:LEU:HD11	1.96	0.47
1:D:884:LEU:HD12	1:D:884:LEU:O	2.15	0.47
1:D:990:LEU:HD11	1:D:1602:LEU:HD13	1.96	0.47
1:D:1358:ASP:HA	1:D:1363:MET:HE1	1.94	0.47
1:B:494:LEU:HD21	1:B:555:LEU:HD23	1.96	0.47
1:B:2163:GLU:HG2	1:B:2164:GLN:OE1	2.15	0.47
1:C:1883:ASN:O	1:C:1883:ASN:ND2	2.46	0.47
1:A:1932:ASP:OD1	1:A:1932:ASP:C	2.53	0.47
1:A:2031:LYS:O	1:A:2035:GLN:N	2.48	0.47
1:B:1316:LYS:O	1:B:1320:MET:SD	2.73	0.47
1:B:1786:PHE:CE1	1:B:1895:GLN:HG2	2.49	0.47
1:B:2013:ALA:O	1:B:2017:LEU:CG	2.51	0.47
1:C:2163:GLU:H	1:C:2163:GLU:CD	2.17	0.47
1:C:2375:LEU:HB2	1:D:2355:LEU:HD11	1.95	0.47
1:A:650:GLU:OE1	1:A:650:GLU:C	2.52	0.47
1:B:617:THR:O	1:B:621:LEU:CD2	2.43	0.47
1:B:735:LEU:C	1:B:735:LEU:CD2	2.79	0.47
1:B:861:PHE:C	1:B:861:PHE:CD1	2.87	0.47
1:D:1050:GLU:OE2	1:D:1054:MET:HE3	2.15	0.47
1:D:1056:LEU:HD11	1:D:1082:PHE:CE1	2.49	0.47
1:D:1543:ASP:OD1	1:D:1544:LEU:N	2.46	0.47
1:D:1975:LEU:HD11	1:D:2025:LEU:HD12	1.95	0.47
1:D:2178:LEU:HD13	1:D:2569:LEU:HD22	1.96	0.47
1:B:7:PHE:CD2	1:C:374:LEU:HD12	2.47	0.47
1:B:990:LEU:HD11	1:B:1602:LEU:HD13	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1950:GLY:N	1:B:1951:PRO:HA	2.30	0.47
1:B:2031:LYS:O	1:B:2035:GLN:N	2.47	0.47
1:B:2215:ILE:HG21	1:B:2341:TYR:CD2	2.50	0.47
1:B:2497:ASP:C	1:C:2471:ARG:CZ	2.79	0.47
1:B:2500:PHE:CE2	1:B:2504:VAL:HG21	2.50	0.47
1:C:305:ARG:NH1	1:C:365:SER:OG	2.48	0.47
1:C:827:LYS:O	1:C:831:ALA:N	2.48	0.47
1:C:1243:GLN:CD	1:C:1267:ILE:O	2.53	0.47
1:C:1950:GLY:N	1:C:1951:PRO:HA	2.30	0.47
1:C:2215:ILE:HG21	1:C:2341:TYR:CD2	2.50	0.47
1:C:2584:THR:HG22	1:C:2585:GLY:H	1.79	0.47
1:D:972:LEU:HD12	1:D:972:LEU:N	2.29	0.47
1:D:2026:VAL:O	1:D:2030:LYS:HG3	2.14	0.47
1:D:2065:LYS:HZ2	1:D:2066:GLN:CD	2.17	0.47
1:B:827:LYS:O	1:B:831:ALA:N	2.48	0.47
1:B:867:ALA:O	1:B:871:ILE:HD12	2.15	0.47
1:B:1660:LYS:O	1:B:1663:ILE:HG22	2.13	0.47
1:C:1056:LEU:HD11	1:C:1082:PHE:HZ	1.79	0.47
1:C:1876:PHE:CE2	1:C:1880:LEU:CD1	2.94	0.47
1:D:265:LEU:HD11	1:D:417:LEU:CD2	2.43	0.47
1:D:2584:THR:HG22	1:D:2585:GLY:H	1.79	0.47
1:A:1316:LYS:O	1:A:1320:MET:SD	2.73	0.47
1:B:1190:ARG:HA	1:B:1193:GLN:HE21	1.79	0.47
1:C:1036:PHE:HB2	1:C:1085:ARG:HH21	1.80	0.47
1:C:1230:GLN:OE1	1:C:1234:LYS:HG3	2.14	0.47
1:C:2226:MET:HA	1:C:2226:MET:CE	2.44	0.47
1:D:305:ARG:NH1	1:D:365:SER:OG	2.48	0.47
1:D:878:PHE:HD2	1:D:878:PHE:O	1.97	0.47
1:D:1790:HIS:ND1	1:D:1901:TYR:HB3	2.30	0.47
1:D:2556:GLU:OE2	1:D:2556:GLU:N	2.27	0.47
1:B:135:VAL:O	1:B:135:VAL:CG1	2.64	0.47
1:B:1886:ARG:O	1:B:1890:ASN:CG	2.46	0.47
1:C:7:PHE:CD2	1:D:374:LEU:HD12	2.45	0.47
1:C:398:ILE:HG22	1:C:429:PHE:CE1	2.49	0.47
1:C:836:PHE:CD1	1:C:836:PHE:C	2.86	0.47
1:D:1655:MET:HE2	1:D:1656:GLU:HA	1.95	0.47
1:A:1543:ASP:OD1	1:A:1544:LEU:N	2.46	0.46
1:A:1729:ASP:C	1:A:1729:ASP:OD1	2.54	0.46
1:B:1060:ILE:HG21	1:B:1628:PHE:HE1	1.78	0.46
1:B:1975:LEU:HD11	1:B:2025:LEU:HD12	1.97	0.46
1:B:2166:SER:HB3	1:B:2604:ARG:NH1	2.26	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2212:ALA:O	1:B:2216:ASN:ND2	2.48	0.46
1:C:1189:MET:N	1:C:1189:MET:HE2	2.29	0.46
1:C:2178:LEU:HD13	1:C:2569:LEU:HD22	1.96	0.46
1:C:2388:PHE:HD1	1:C:2389:LEU:HD23	1.80	0.46
1:D:240:VAL:HG11	1:D:439:ILE:CD1	2.44	0.46
1:D:853:ASN:C	1:D:853:ASN:OD1	2.53	0.46
1:D:2571:PHE:C	1:D:2571:PHE:CD2	2.88	0.46
1:A:806:ILE:O	1:A:995:LYS:NZ	2.43	0.46
1:A:1235:PHE:CE2	1:A:1242:ASN:CG	2.89	0.46
1:A:1665:VAL:O	1:A:1669:LEU:HG	2.15	0.46
1:A:2215:ILE:HG21	1:A:2341:TYR:CD2	2.50	0.46
1:B:834:MET:HE1	1:B:876:TYR:CD2	2.51	0.46
1:B:884:LEU:O	1:B:884:LEU:HD12	2.15	0.46
1:C:485:ASP:OD2	1:C:502:ASN:ND2	2.48	0.46
1:C:2605:MET:HE1	1:D:2549:ASP:OD2	2.16	0.46
1:D:1023:MET:HG2	1:D:1025:LEU:CD2	2.46	0.46
1:D:2031:LYS:O	1:D:2035:GLN:N	2.48	0.46
1:A:827:LYS:O	1:A:831:ALA:N	2.48	0.46
1:A:1768:ILE:HD13	1:A:1768:ILE:N	2.30	0.46
1:A:1950:GLY:N	1:A:1951:PRO:HA	2.30	0.46
1:A:2355:LEU:HD11	1:D:2375:LEU:HD22	1.97	0.46
1:A:2362:VAL:HG23	1:D:2511:LEU:HD21	1.96	0.46
1:B:1768:ILE:HD13	1:B:1768:ILE:N	2.31	0.46
1:B:2584:THR:HG22	1:B:2585:GLY:H	1.79	0.46
1:C:2031:LYS:O	1:C:2035:GLN:N	2.48	0.46
1:C:2460:MET:HE2	1:C:2463:VAL:HG12	1.92	0.46
1:D:255:ASP:OD1	1:D:256:GLU:O	2.33	0.46
1:D:320:ASN:ND2	1:D:350:ILE:O	2.35	0.46
1:A:374:LEU:HD12	1:D:7:PHE:CD2	2.47	0.46
1:A:836:PHE:O	1:A:836:PHE:HD1	1.97	0.46
1:A:867:ALA:O	1:A:871:ILE:HD12	2.15	0.46
1:A:2178:LEU:HD13	1:A:2569:LEU:HD22	1.96	0.46
1:A:2510:ASN:HB3	1:B:2513:PHE:CE1	2.51	0.46
1:B:305:ARG:NH1	1:B:365:SER:OG	2.48	0.46
1:B:1390:LEU:HD22	1:B:1390:LEU:N	2.31	0.46
1:B:1729:ASP:C	1:B:1729:ASP:OD1	2.54	0.46
1:C:646:PRO:O	1:C:650:GLU:HG3	2.15	0.46
1:C:867:ALA:O	1:C:871:ILE:HD12	2.15	0.46
1:C:1063:THR:O	1:C:1071:VAL:HG22	2.16	0.46
1:C:1543:ASP:OD1	1:C:1544:LEU:N	2.46	0.46
1:C:2071:LEU:HD23	1:C:2114:LEU:CD2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2460:MET:HE2	1:C:2460:MET:CA	2.28	0.46
1:D:754:GLN:C	1:D:755:LEU:HD23	2.34	0.46
1:D:1092:PHE:O	1:D:1095:VAL:HG23	2.15	0.46
1:D:2163:GLU:HG2	1:D:2164:GLN:OE1	2.15	0.46
1:D:2215:ILE:HG21	1:D:2341:TYR:CD2	2.50	0.46
1:D:2534:LEU:HD23	1:D:2535:LYS:CE	2.42	0.46
1:A:545:LYS:HD3	1:B:1394:GLU:OE1	2.16	0.46
1:A:2208:SER:N	1:A:2292:ASN:OD1	2.49	0.46
1:B:835:GLU:C	1:B:835:GLU:CD	2.74	0.46
1:C:2208:SER:N	1:C:2292:ASN:OD1	2.49	0.46
1:C:2395:PHE:N	1:C:2480:LEU:CD2	2.79	0.46
1:D:827:LYS:O	1:D:831:ALA:N	2.48	0.46
1:D:885:THR:HB	1:D:978:ILE:HD13	1.96	0.46
1:D:968:LYS:HZ3	1:D:1065:HIS:CE1	2.34	0.46
1:D:1023:MET:HG2	1:D:1025:LEU:HD23	1.98	0.46
1:D:1729:ASP:C	1:D:1729:ASP:OD1	2.54	0.46
1:D:1950:GLY:N	1:D:1951:PRO:HA	2.30	0.46
1:A:2399:VAL:HB	1:D:2484:SER:OG	2.16	0.46
1:B:138:ARG:HH22	1:C:1288:HIS:HE1	0.57	0.46
1:B:1783:GLU:OE1	1:B:1897:ASN:CG	2.54	0.46
1:D:32:VAL:HG13	1:D:451:MET:CE	2.46	0.46
1:D:1883:ASN:O	1:D:1883:ASN:ND2	2.46	0.46
1:D:2020:LEU:CD2	1:D:2025:LEU:HD13	2.46	0.46
1:D:2208:SER:N	1:D:2292:ASN:OD1	2.49	0.46
1:D:2349:ILE:CG1	1:D:2355:LEU:CD2	2.89	0.46
1:A:383:ARG:NE	1:A:433:SER:OG	2.49	0.46
1:A:729:TYR:O	1:A:733:LEU:CD2	2.64	0.46
1:A:885:THR:HB	1:A:978:ILE:HD13	1.96	0.46
1:A:1684:ASN:O	1:A:1688:LYS:HG3	2.16	0.46
1:B:745:TYR:OH	1:B:789:ASP:HB2	2.16	0.46
1:B:1659:GLU:O	1:B:1663:ILE:HG22	2.15	0.46
1:B:2555:PHE:CE1	1:B:2559:ILE:HD13	2.51	0.46
1:C:1481:SER:O	1:C:1481:SER:OG	2.25	0.46
1:D:730:ARG:HH11	1:D:730:ARG:CB	2.27	0.46
1:D:1193:GLN:HG3	1:D:1197:LEU:HD11	1.97	0.46
1:D:1684:ASN:O	1:D:1688:LYS:HG3	2.16	0.46
1:A:305:ARG:NH1	1:A:365:SER:OG	2.48	0.46
1:B:1060:ILE:HG22	1:B:1628:PHE:HZ	1.78	0.46
1:B:1393:LEU:CG	1:B:1421:TYR:CE1	2.98	0.46
1:B:1622:HIS:CE1	1:B:1672:MET:HG2	2.50	0.46
1:B:2191:MET:HE3	1:B:2192:PRO:HD2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2353:GLU:N	1:B:2353:GLU:OE2	2.49	0.46
1:C:135:VAL:O	1:C:135:VAL:CG1	2.64	0.46
1:C:559:VAL:CG1	1:C:560:LEU:N	2.78	0.46
1:C:987:ILE:HD11	1:C:1091:THR:OG1	2.16	0.46
1:C:2604:ARG:HH11	1:C:2605:MET:HG3	1.80	0.46
1:A:2584:THR:HG22	1:A:2585:GLY:H	1.80	0.46
1:B:352:TYR:CD2	1:B:394:THR:HG21	2.51	0.46
1:B:1940:THR:O	1:B:1944:LEU:HD13	2.16	0.46
1:B:2222:PHE:HD1	1:B:2278:ILE:HG13	1.80	0.46
1:C:398:ILE:HG22	1:C:399:GLN:N	2.30	0.46
1:C:1322:MET:HE3	1:C:1326:THR:HG23	1.97	0.46
1:C:1911:LEU:HD13	1:C:1940:THR:HG23	1.98	0.46
1:C:2031:LYS:HD3	1:C:2031:LYS:N	2.31	0.46
1:D:619:VAL:HA	1:D:622:VAL:HG12	1.98	0.46
1:D:987:ILE:HD11	1:D:1091:THR:OG1	2.16	0.46
1:A:619:VAL:HA	1:A:622:VAL:HG12	1.98	0.46
1:A:2031:LYS:HD3	1:A:2031:LYS:N	2.31	0.46
1:B:619:VAL:HA	1:B:622:VAL:HG12	1.97	0.46
1:B:782:LEU:HD13	1:B:865:SER:OG	2.16	0.46
1:B:2545:ARG:HB3	1:B:2545:ARG:CZ	2.46	0.46
1:C:2395:PHE:HA	1:C:2480:LEU:CD2	2.44	0.46
1:C:2460:MET:O	1:C:2463:VAL:CG1	2.63	0.46
1:D:1678:LYS:HE3	1:D:1680:GLY:CA	2.45	0.46
1:D:2571:PHE:HD2	1:D:2571:PHE:C	2.18	0.46
1:B:2208:SER:N	1:B:2292:ASN:OD1	2.49	0.45
1:D:730:ARG:CB	1:D:730:ARG:NH1	2.79	0.45
1:D:1593:GLU:OE1	1:D:1597:ASP:OD1	2.35	0.45
1:D:1943:THR:HG21	1:D:1947:TYR:OH	2.14	0.45
1:A:2510:ASN:HB3	1:B:2513:PHE:CD1	2.51	0.45
1:B:1616:VAL:HG21	1:B:1690:LEU:HB2	1.98	0.45
1:C:631:LEU:CD1	1:C:735:LEU:CD2	2.86	0.45
1:C:963:VAL:O	1:C:967:THR:OG1	2.34	0.45
1:D:352:TYR:CD2	1:D:394:THR:HG21	2.51	0.45
1:D:634:LEU:HD12	1:D:652:ILE:HD13	1.97	0.45
1:D:1060:ILE:HG22	1:D:1628:PHE:HZ	1.78	0.45
1:D:1616:VAL:HG21	1:D:1690:LEU:HB2	1.99	0.45
1:D:2555:PHE:CE1	1:D:2559:ILE:HD13	2.51	0.45
1:D:2571:PHE:CD2	1:D:2575:VAL:HG23	2.51	0.45
1:A:836:PHE:CD1	1:A:836:PHE:O	2.69	0.45
1:A:2342:SER:HB2	1:D:2381:TYR:CE2	2.51	0.45
1:B:790:PRO:HB2	1:B:791:GLN:OE1	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1183:CYS:HA	1:B:1193:GLN:OE1	2.16	0.45
1:B:1235:PHE:HD1	1:B:1242:ASN:HD22	1.64	0.45
1:B:1672:MET:HE1	1:B:1728:LEU:HD21	1.99	0.45
1:B:2031:LYS:N	1:B:2031:LYS:HD3	2.32	0.45
1:B:2460:MET:HA	1:B:2460:MET:CE	2.47	0.45
1:B:2535:LYS:N	1:B:2535:LYS:CD	2.79	0.45
1:C:383:ARG:NE	1:C:433:SER:OG	2.49	0.45
1:C:1528:THR:N	1:C:1531:MET:CE	2.76	0.45
1:C:2387:GLY:O	1:C:2391:LEU:N	2.50	0.45
1:D:847:GLU:OE2	1:D:848:ALA:N	2.49	0.45
1:D:1786:PHE:CE1	1:D:1895:GLN:HG2	2.51	0.45
1:A:882:LEU:HA	1:A:885:THR:HG22	1.99	0.45
1:A:889:LEU:HD21	1:A:975:LEU:CD1	2.46	0.45
1:D:1179:LEU:CD1	1:D:1182:MET:HE1	2.35	0.45
1:D:1189:MET:HA	1:D:1189:MET:CE	2.46	0.45
1:D:1650:HIS:ND1	1:D:1654:LEU:HD23	2.32	0.45
1:A:936:PHE:CE1	1:A:1077:LEU:HD11	2.52	0.45
1:A:2471:ARG:HD3	1:D:2497:ASP:OD2	2.11	0.45
1:B:1334:VAL:C	1:B:1335:PHE:HD1	2.20	0.45
1:B:1650:HIS:ND1	1:B:1654:LEU:HD23	2.32	0.45
1:B:1673:LEU:HD21	1:B:1760:LEU:HD22	1.99	0.45
1:C:1078:LEU:HD23	1:C:1078:LEU:C	2.37	0.45
1:C:1616:VAL:HG21	1:C:1690:LEU:HB2	1.99	0.45
1:C:1650:HIS:ND1	1:C:1654:LEU:HD23	2.32	0.45
1:C:2501:PHE:CB	1:D:2471:ARG:CZ	2.89	0.45
1:C:2579:ASN:OD1	1:C:2580:LYS:N	2.50	0.45
1:D:299:HIS:CE1	1:D:380:PHE:CE2	3.04	0.45
1:A:1650:HIS:ND1	1:A:1654:LEU:HD23	2.32	0.45
1:A:2133:MET:CB	1:A:2608:MET:HE2	2.46	0.45
1:B:485:ASP:OD2	1:B:502:ASN:ND2	2.44	0.45
1:B:615:VAL:HG23	1:B:655:CYS:SG	2.56	0.45
1:B:987:ILE:HD11	1:B:1091:THR:OG1	2.16	0.45
1:B:1911:LEU:HD13	1:B:1940:THR:HG23	1.98	0.45
1:C:352:TYR:CD2	1:C:394:THR:HG21	2.51	0.45
1:C:631:LEU:CD1	1:C:735:LEU:HD23	2.41	0.45
1:C:806:ILE:O	1:C:995:LYS:NZ	2.42	0.45
1:C:882:LEU:HA	1:C:885:THR:HG22	1.99	0.45
1:D:32:VAL:O	1:D:32:VAL:CG2	2.65	0.45
1:D:110:LYS:C	1:D:110:LYS:CD	2.79	0.45
1:D:1060:ILE:HG21	1:D:1628:PHE:HE1	1.78	0.45
1:D:1678:LYS:HD2	1:D:1684:ASN:ND2	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2387:GLY:O	1:D:2391:LEU:N	2.50	0.45
1:D:2579:ASN:OD1	1:D:2580:LYS:N	2.50	0.45
1:A:92:LYS:HB3	1:B:1924:LEU:CD2	2.39	0.45
1:A:1975:LEU:HD13	1:A:2028:VAL:HG21	1.99	0.45
1:A:2560:LYS:NZ	4:A:3003:ATP:O3A	2.50	0.45
1:B:1684:ASN:O	1:B:1688:LYS:HG3	2.16	0.45
1:C:652:ILE:HG23	1:C:656:VAL:HG21	1.99	0.45
1:C:861:PHE:CD1	1:C:861:PHE:C	2.90	0.45
1:C:1663:ILE:CG2	1:C:1667:ARG:HH22	2.29	0.45
1:C:2311:TYR:HA	1:C:2314:MET:HG3	1.97	0.45
1:D:1735:LYS:HD3	1:D:1775:LEU:HD21	1.98	0.45
1:D:2031:LYS:HD3	1:D:2031:LYS:N	2.32	0.45
1:A:1883:ASN:O	1:A:1883:ASN:ND2	2.46	0.45
1:B:784:VAL:HG12	1:B:785:HIS:CD2	2.52	0.45
1:B:882:LEU:HA	1:B:885:THR:HG22	1.99	0.45
1:C:32:VAL:O	1:C:32:VAL:CG2	2.65	0.45
1:C:106:THR:O	1:C:110:LYS:HG2	2.17	0.45
1:C:889:LEU:HD21	1:C:975:LEU:CD1	2.46	0.45
1:C:1768:ILE:HD13	1:C:1768:ILE:N	2.31	0.45
1:D:836:PHE:C	1:D:836:PHE:CD1	2.89	0.45
1:D:1758:ILE:HD13	1:D:1875:ARG:HG2	1.98	0.45
1:D:1895:GLN:NE2	1:D:1901:TYR:O	2.50	0.45
1:A:1616:VAL:HG21	1:A:1690:LEU:HB2	1.99	0.45
1:A:1911:LEU:HD13	1:A:1940:THR:HG23	1.98	0.45
1:B:885:THR:O	1:B:889:LEU:CG	2.61	0.45
1:B:1179:LEU:N	1:B:1179:LEU:HD23	2.32	0.45
1:B:2026:VAL:HG21	1:B:2070:LEU:CB	2.45	0.45
1:B:2133:MET:HG3	1:B:2134:GLU:N	2.31	0.45
1:C:1054:MET:HE2	1:C:1057:ARG:NH2	2.30	0.45
1:C:1975:LEU:HD13	1:C:2028:VAL:HG21	1.99	0.45
1:C:2189:ARG:HH11	1:C:2189:ARG:CG	2.30	0.45
1:C:2545:ARG:HH11	1:C:2545:ARG:CB	2.29	0.45
1:D:735:LEU:O	1:D:735:LEU:HD12	2.17	0.45
1:D:882:LEU:HA	1:D:885:THR:HG22	1.99	0.45
1:D:1768:ILE:HD13	1:D:1768:ILE:N	2.31	0.45
1:D:1986:MET:CE	1:D:2035:GLN:HE21	2.29	0.45
1:D:2203:LEU:CD1	1:D:2207:ILE:HD11	2.46	0.45
1:A:799:PHE:CD1	1:A:941:LEU:HA	2.52	0.45
1:B:19:GLU:CB	1:B:23:ASN:OD1	2.65	0.45
1:B:1060:ILE:HD13	1:B:1643:PHE:CZ	2.49	0.45
1:B:1272:TYR:CD1	1:B:1312:LYS:NZ	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1793:MET:HG3	1:B:1870:MET:CE	2.47	0.45
1:B:2387:GLY:O	1:B:2391:LEU:N	2.50	0.45
1:B:2389:LEU:HB3	1:B:2390:PHE:HD1	1.82	0.45
1:C:606:LEU:O	1:C:610:ILE:CG1	2.65	0.45
1:C:2191:MET:HE3	1:C:2192:PRO:HD2	1.98	0.45
1:D:936:PHE:CE1	1:D:1077:LEU:HD11	2.52	0.45
1:D:2125:GLU:HB3	1:D:2133:MET:HE2	1.99	0.45
1:A:2371:LEU:HD13	1:B:2355:LEU:CB	2.47	0.44
1:A:2471:ARG:CD	1:D:2497:ASP:CG	2.65	0.44
1:B:1863:MET:SD	1:B:1867:VAL:HG21	2.57	0.44
1:C:17:TYR:CD2	1:C:45:LEU:CG	2.99	0.44
1:C:399:GLN:NE2	1:C:424:GLU:HG2	2.32	0.44
1:C:1080:LYS:NZ	1:C:1087:GLU:OE1	2.42	0.44
1:C:1656:GLU:N	1:C:1656:GLU:OE2	2.50	0.44
1:C:2127:VAL:HG22	1:C:2133:MET:SD	2.57	0.44
1:C:2511:LEU:HD21	1:D:2362:VAL:HG21	1.97	0.44
1:D:656:VAL:HG21	1:D:739:MET:CE	2.47	0.44
1:B:2155:LEU:HD12	1:B:2155:LEU:HA	1.82	0.44
1:D:799:PHE:CD2	1:D:941:LEU:HA	2.52	0.44
1:D:1120:MET:SD	1:D:1172:VAL:CG2	3.06	0.44
1:D:1322:MET:CE	1:D:1322:MET:HA	2.47	0.44
1:D:1663:ILE:HD11	1:D:1749:ILE:CA	2.46	0.44
1:D:2531:GLU:O	1:D:2535:LYS:HG2	2.16	0.44
1:A:1895:GLN:NE2	1:A:1901:TYR:O	2.50	0.44
1:B:416:MET:HG2	1:B:417:LEU:N	2.32	0.44
1:B:492:ASN:OD1	1:B:494:LEU:N	2.50	0.44
1:B:1050:GLU:CG	1:B:1054:MET:HE3	2.43	0.44
1:C:619:VAL:HA	1:C:622:VAL:HG12	1.98	0.44
1:D:258:LYS:HG2	1:D:259:GLY:H	1.82	0.44
1:D:406:ASP:CB	1:D:414:ARG:HH11	2.30	0.44
1:D:565:GLU:HG3	1:D:566:ASP:OD1	2.18	0.44
1:D:790:PRO:HB2	1:D:791:GLN:OE1	2.17	0.44
1:D:1082:PHE:CD2	1:D:1617:LEU:HB2	2.51	0.44
1:D:2571:PHE:O	1:D:2571:PHE:CD2	2.63	0.44
1:A:606:LEU:HD21	1:A:637:LEU:HD12	2.00	0.44
1:A:2020:LEU:CD2	1:A:2025:LEU:CD1	2.57	0.44
1:A:2387:GLY:O	1:A:2391:LEU:N	2.50	0.44
1:B:936:PHE:CE1	1:B:1077:LEU:HD11	2.52	0.44
1:B:1883:ASN:O	1:B:1883:ASN:ND2	2.46	0.44
1:C:17:TYR:CE1	1:C:24:GLY:CA	3.00	0.44
1:C:475:LEU:HD12	1:C:475:LEU:C	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1863:MET:CE	1:C:1863:MET:HA	2.47	0.44
1:C:2023:GLN:OE1	1:C:2023:GLN:C	2.48	0.44
1:C:2463:VAL:HG13	1:C:2464:THR:N	2.33	0.44
1:D:1226:ARG:O	1:D:1230:GLN:CG	2.65	0.44
1:D:1930:ASN:C	1:D:1930:ASN:OD1	2.55	0.44
1:D:2264:LEU:O	1:D:2264:LEU:HD23	2.18	0.44
1:B:416:MET:HB3	1:B:416:MET:HE2	1.74	0.44
1:B:606:LEU:HD21	1:B:637:LEU:HD12	2.00	0.44
1:B:1333:VAL:HG12	1:B:1335:PHE:CD1	2.52	0.44
1:C:399:GLN:HG2	1:C:427:GLU:HG3	1.99	0.44
1:C:1233:GLN:HB3	1:C:1266:HIS:ND1	2.33	0.44
1:C:1633:GLU:O	1:C:1637:ARG:HG3	2.18	0.44
1:C:2560:LYS:NZ	4:C:3003:ATP:O3A	2.50	0.44
1:D:1648:ILE:HD12	1:D:1731:GLU:HB3	1.88	0.44
1:D:1655:MET:HE2	1:D:1655:MET:O	2.16	0.44
1:D:1731:GLU:OE1	1:D:1731:GLU:HA	2.17	0.44
1:A:391:HIS:O	1:A:395:ASN:N	2.45	0.44
1:A:1934:VAL:HG21	1:A:1981:LEU:HD21	2.00	0.44
1:A:2203:LEU:CD1	1:A:2207:ILE:HD11	2.46	0.44
1:B:799:PHE:CD2	1:B:941:LEU:HA	2.53	0.44
1:B:806:ILE:O	1:B:995:LYS:NZ	2.43	0.44
1:B:1994:ASP:OD1	1:B:2049:VAL:CG1	2.66	0.44
1:B:2020:LEU:HD21	1:B:2025:LEU:HD13	1.98	0.44
1:B:2020:LEU:CD2	1:B:2025:LEU:HD11	2.47	0.44
1:B:2144:CYS:SG	1:B:2570:TYR:HA	2.58	0.44
1:C:606:LEU:HD21	1:C:637:LEU:HD12	2.00	0.44
1:C:855:GLU:CD	1:C:858:LYS:CE	2.83	0.44
1:D:766:ASP:OD2	1:D:769:LEU:CD2	2.66	0.44
1:D:806:ILE:O	1:D:995:LYS:NZ	2.43	0.44
1:D:1758:ILE:CD1	1:D:1875:ARG:HG2	2.47	0.44
1:D:2155:LEU:HG	1:D:2178:LEU:HD21	1.99	0.44
1:A:492:ASN:OD1	1:A:494:LEU:N	2.50	0.44
1:A:561:ARG:NE	1:A:593:ASP:OD1	2.51	0.44
1:A:1044:MET:H	1:A:1044:MET:HE2	1.82	0.44
1:A:2264:LEU:O	1:A:2264:LEU:HD23	2.18	0.44
1:C:2162:ASP:OD2	1:C:2163:GLU:OE2	2.35	0.44
1:D:492:ASN:OD1	1:D:494:LEU:N	2.50	0.44
1:D:782:LEU:HD23	1:D:783:HIS:N	2.33	0.44
1:D:1866:SER:O	1:D:1869:ILE:HG22	2.18	0.44
1:D:1929:ILE:HD11	1:D:1937:VAL:HG21	1.99	0.44
1:A:71:TYR:CE2	1:A:94:GLN:CA	3.01	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2579:ASN:OD1	1:A:2580:LYS:N	2.50	0.44
1:B:32:VAL:CG2	1:B:451:MET:HE3	2.47	0.44
1:B:355:VAL:HG22	1:B:356:ALA:H	1.83	0.44
1:B:1120:MET:SD	1:B:1172:VAL:CG2	3.06	0.44
1:B:2052:ASN:HA	1:B:2055:ILE:HD12	2.00	0.44
1:B:2579:ASN:OD1	1:B:2580:LYS:N	2.50	0.44
1:C:735:LEU:HD12	1:C:735:LEU:O	2.17	0.44
1:C:936:PHE:CE1	1:C:1077:LEU:HD11	2.52	0.44
1:C:1210:LEU:HD21	1:C:1228:THR:OG1	2.18	0.44
1:C:2307:PHE:N	1:C:2314:MET:SD	2.90	0.44
1:C:2394:ASP:OD1	1:C:2481:ARG:NH2	2.50	0.44
1:D:258:LYS:CG	1:D:259:GLY:N	2.81	0.44
1:D:566:ASP:OD1	1:D:566:ASP:N	2.50	0.44
1:D:1221:MET:SD	1:D:1222:MET:HE1	2.58	0.44
1:D:1221:MET:HB2	1:D:1221:MET:HE2	1.88	0.44
1:B:941:LEU:HD21	1:B:1200:MET:CE	2.48	0.44
1:B:1934:VAL:HG21	1:B:1981:LEU:HD21	2.00	0.44
1:D:1735:LYS:HD2	1:D:1775:LEU:HD11	1.96	0.44
1:D:1979:SER:O	1:D:1983:LYS:HD3	2.11	0.44
1:D:2146:PHE:CD1	1:D:2186:ARG:HA	2.53	0.44
1:A:2355:LEU:N	1:D:2371:LEU:HD22	2.30	0.43
1:B:1322:MET:HE1	1:B:1326:THR:HG21	1.99	0.43
1:B:2397:LEU:HD13	1:B:2479:ILE:HG21	1.91	0.43
1:C:244:PHE:CZ	1:C:249:GLU:HA	2.53	0.43
1:C:492:ASN:OD1	1:C:494:LEU:N	2.50	0.43
1:C:2155:LEU:HA	1:C:2158:THR:HG22	1.99	0.43
1:C:2381:TYR:CE2	1:D:2342:SER:CB	2.94	0.43
1:D:526:PHE:CZ	1:D:541:LEU:HD11	2.51	0.43
1:D:1060:ILE:HD13	1:D:1643:PHE:CZ	2.49	0.43
1:D:1102:GLN:OE1	1:D:1102:GLN:N	2.42	0.43
1:D:1349:MET:SD	1:D:1406:ILE:CG2	3.06	0.43
1:D:1644:LEU:O	1:D:1648:ILE:CG1	2.58	0.43
1:D:1934:VAL:HG21	1:D:1981:LEU:HD21	2.00	0.43
1:B:258:LYS:CG	1:B:259:GLY:N	2.81	0.43
1:B:526:PHE:HE1	1:B:538:LEU:HD23	1.78	0.43
1:B:2020:LEU:CD1	1:B:2025:LEU:CD1	2.83	0.43
1:C:1934:VAL:HG21	1:C:1981:LEU:HD21	2.00	0.43
1:D:1667:ARG:HD2	1:D:1752:GLU:OE2	2.18	0.43
1:A:1975:LEU:HD12	1:A:2024:GLU:HB2	2.00	0.43
1:B:836:PHE:O	1:B:836:PHE:CD1	2.71	0.43
1:B:990:LEU:HD22	1:B:1035:MET:CE	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:888:LEU:HD22	1:C:971:ILE:HD13	2.00	0.43
1:C:1619:ASP:OD2	1:C:1687:ARG:NH2	2.52	0.43
1:C:2497:ASP:HB3	1:D:2471:ARG:NE	2.33	0.43
1:D:1092:PHE:C	1:D:1095:VAL:HG23	2.39	0.43
1:A:729:TYR:CE2	1:A:733:LEU:HD21	2.54	0.43
1:B:304:TYR:CD1	1:B:304:TYR:N	2.86	0.43
1:B:606:LEU:HD13	1:B:606:LEU:O	2.19	0.43
1:B:841:LEU:HD13	1:B:884:LEU:HD11	2.01	0.43
1:B:1619:ASP:OD2	1:B:1687:ARG:NH2	2.52	0.43
1:B:2264:LEU:O	1:B:2264:LEU:HD23	2.18	0.43
1:C:799:PHE:CD2	1:C:941:LEU:HA	2.52	0.43
1:C:1060:ILE:HG21	1:C:1628:PHE:HE1	1.76	0.43
1:C:1593:GLU:OE2	1:C:1597:ASP:CG	2.54	0.43
1:C:1653:ASP:O	1:C:1656:GLU:OE2	2.36	0.43
1:C:1673:LEU:HD21	1:C:1760:LEU:HD22	1.99	0.43
1:C:2311:TYR:HA	1:C:2314:MET:CG	2.48	0.43
1:D:1975:LEU:HD13	1:D:2028:VAL:HG21	1.99	0.43
1:D:1978:ILE:HD13	1:D:1992:LEU:HD23	2.01	0.43
1:D:2349:ILE:HG12	1:D:2355:LEU:HD23	1.96	0.43
1:A:606:LEU:HD13	1:A:606:LEU:O	2.19	0.43
1:A:760:ILE:HG21	1:A:781:MET:HB2	2.01	0.43
1:A:2511:LEU:HD21	1:B:2362:VAL:HG21	1.98	0.43
1:B:836:PHE:CD1	1:B:836:PHE:C	2.89	0.43
1:B:888:LEU:HB3	1:B:971:ILE:HD12	2.00	0.43
1:B:990:LEU:CD2	1:B:1035:MET:HE2	2.48	0.43
1:B:2020:LEU:CD2	1:B:2025:LEU:CD1	2.95	0.43
1:C:606:LEU:HD11	1:C:648:THR:HG21	1.94	0.43
1:C:861:PHE:CE2	1:C:966:GLU:HB2	2.54	0.43
1:C:1428:MET:HB2	1:C:1431:ILE:HD12	1.98	0.43
1:C:1448:MET:SD	1:C:1508:LEU:CD1	3.01	0.43
1:C:2545:ARG:HG3	1:C:2555:PHE:HB3	2.01	0.43
1:D:871:ILE:HD13	1:D:974:ILE:HG23	2.00	0.43
1:D:1736:LEU:O	1:D:1740:LEU:HG	2.19	0.43
1:D:2146:PHE:CE1	1:D:2186:ARG:CA	3.00	0.43
1:D:2546:ASP:OD1	1:D:2547:LYS:N	2.51	0.43
1:A:861:PHE:CE2	1:A:966:GLU:HB2	2.52	0.43
1:A:1082:PHE:CD2	1:A:1617:LEU:HB2	2.54	0.43
1:A:2546:ASP:OD1	1:A:2547:LYS:N	2.51	0.43
1:B:760:ILE:HG21	1:B:781:MET:HB2	2.01	0.43
1:C:1082:PHE:CD2	1:C:1617:LEU:HB2	2.54	0.43
1:C:1188:GLN:HB2	1:C:1189:MET:CE	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1684:ASN:HB3	1:C:1688:LYS:NZ	2.33	0.43
1:C:1736:LEU:O	1:C:1740:LEU:HG	2.19	0.43
1:C:2264:LEU:HD23	1:C:2264:LEU:O	2.18	0.43
1:D:398:ILE:CD1	1:D:419:THR:HG22	2.47	0.43
1:D:1428:MET:HB2	1:D:1431:ILE:HD12	2.01	0.43
1:D:1678:LYS:HD2	1:D:1684:ASN:CG	2.39	0.43
1:A:632:ASP:OD1	1:A:632:ASP:C	2.57	0.43
1:A:1211:GLN:HE22	1:A:1252:LEU:HD13	1.84	0.43
1:B:1211:GLN:NE2	1:B:1252:LEU:HD13	2.34	0.43
1:B:2329:THR:HG23	1:B:2343:ILE:HG22	1.86	0.43
1:C:474:GLN:C	1:C:478:ASP:OD2	2.55	0.43
1:C:489:ASN:HB2	1:C:491:GLN:OE1	2.19	0.43
1:C:2015:ARG:HH11	1:C:2015:ARG:HG3	1.84	0.43
1:C:2222:PHE:CD2	1:C:2278:ILE:HD11	2.54	0.43
1:D:19:GLU:HA	1:D:23:ASN:OD1	2.19	0.43
1:D:1338:ASP:OD1	1:D:1339:LYS:N	2.51	0.43
1:D:1734:THR:O	1:D:1738:CYS:SG	2.77	0.43
1:A:1736:LEU:O	1:A:1740:LEU:HG	2.19	0.43
1:B:50:LYS:HB3	1:B:50:LYS:HE3	1.80	0.43
1:B:1082:PHE:CD2	1:B:1617:LEU:HB2	2.54	0.43
1:B:1317:CYS:HA	1:B:1320:MET:HE2	2.01	0.43
1:B:1736:LEU:O	1:B:1740:LEU:HG	2.18	0.43
1:C:1073:GLY:HA2	1:C:1076:GLN:OE1	2.18	0.43
1:C:1427:GLU:C	1:C:1428:MET:HE2	2.39	0.43
1:C:2215:ILE:HD11	1:C:2285:LEU:C	2.39	0.43
1:D:383:ARG:HB3	1:D:383:ARG:CZ	2.49	0.43
1:D:406:ASP:N	1:D:406:ASP:OD1	2.52	0.43
1:D:606:LEU:HD13	1:D:606:LEU:O	2.19	0.43
1:D:632:ASP:C	1:D:632:ASP:OD1	2.57	0.43
1:D:760:ILE:HG21	1:D:781:MET:HB2	2.01	0.43
1:D:2010:SER:O	1:D:2014:GLU:HG3	2.19	0.43
1:D:2178:LEU:O	1:D:2182:MET:HG2	2.19	0.43
1:D:2397:LEU:CD1	1:D:2479:ILE:HG23	2.36	0.43
1:A:231:LEU:HG	1:A:234:VAL:HG23	2.00	0.43
1:A:406:ASP:OD1	1:A:406:ASP:N	2.52	0.43
1:B:694:LEU:CD2	1:B:708:VAL:HG22	2.48	0.43
1:B:836:PHE:O	1:B:836:PHE:HD1	2.02	0.43
1:B:2397:LEU:HD11	1:B:2479:ILE:HG21	1.96	0.43
1:C:734:LYS:HD2	1:C:926:THR:CG2	2.41	0.43
1:C:760:ILE:HG21	1:C:781:MET:HB2	2.01	0.43
1:D:256:GLU:OE1	1:D:259:GLY:HA2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:319:GLU:OE2	1:D:352:TYR:CE1	2.71	0.43
1:D:760:ILE:O	1:D:764:MET:HE2	2.19	0.43
1:D:841:LEU:HD13	1:D:884:LEU:HD11	2.01	0.43
1:D:1211:GLN:NE2	1:D:1252:LEU:HD13	2.34	0.43
1:D:2015:ARG:HH11	1:D:2015:ARG:HG3	1.84	0.43
1:A:759:LEU:HD23	1:A:759:LEU:C	2.39	0.43
1:A:2119:ASN:C	1:A:2119:ASN:OD1	2.58	0.43
1:B:231:LEU:HG	1:B:234:VAL:HG23	2.00	0.43
1:B:1046:GLU:OE2	1:B:1048:ASP:N	2.52	0.43
1:B:1348:MET:HE2	1:B:1362:LEU:N	2.34	0.43
1:B:1607:LYS:O	1:B:1611:GLN:OE1	2.37	0.43
1:B:2366:GLY:O	1:B:2370:LEU:HG	2.17	0.43
1:B:2397:LEU:CD1	1:B:2479:ILE:HG23	2.36	0.43
1:B:2546:ASP:OD1	1:B:2547:LYS:N	2.51	0.43
1:C:2203:LEU:CD1	1:C:2207:ILE:HD11	2.46	0.43
1:C:2401:ARG:NH1	1:C:2449:ASP:O	2.52	0.43
1:D:708:VAL:HG12	1:D:769:LEU:HD22	2.01	0.43
1:D:1050:GLU:HB3	1:D:1053:ARG:HB2	2.01	0.43
1:D:1091:THR:O	1:D:1095:VAL:HG23	2.18	0.43
1:D:1211:GLN:HE22	1:D:1252:LEU:HD13	1.83	0.43
1:D:1735:LYS:C	1:D:1738:CYS:SG	2.98	0.43
1:A:861:PHE:CD1	1:A:861:PHE:C	2.92	0.42
1:A:1671:GLN:OE1	1:A:1671:GLN:HA	2.18	0.42
1:A:2015:ARG:HH11	1:A:2015:ARG:HG3	1.84	0.42
1:A:2215:ILE:HD11	1:A:2285:LEU:C	2.39	0.42
1:B:256:GLU:C	1:B:256:GLU:OE1	2.57	0.42
1:B:657:LEU:HD13	1:B:657:LEU:HA	1.89	0.42
1:B:743:ARG:HG2	1:B:743:ARG:HH11	1.84	0.42
1:C:2054:TYR:CZ	1:C:2071:LEU:HD22	2.53	0.42
1:C:2546:ASP:OD1	1:C:2547:LYS:N	2.51	0.42
1:D:62:MET:HE2	1:D:161:TRP:CZ2	2.54	0.42
1:D:630:PHE:N	1:D:630:PHE:CD1	2.87	0.42
1:D:815:TYR:CD2	1:D:878:PHE:HD1	2.36	0.42
1:D:1619:ASP:OD2	1:D:1687:ARG:NH2	2.52	0.42
1:D:1738:CYS:SG	1:D:1775:LEU:HD13	2.59	0.42
1:D:2058:LEU:CD2	1:D:2071:LEU:CD1	2.76	0.42
1:D:2155:LEU:HA	1:D:2158:THR:HG22	2.01	0.42
1:A:878:PHE:C	1:A:878:PHE:HD2	2.23	0.42
1:A:1211:GLN:NE2	1:A:1252:LEU:HD13	2.34	0.42
1:A:2191:MET:HE3	1:A:2192:PRO:HD2	2.00	0.42
1:A:2375:LEU:HD22	1:B:2355:LEU:HD11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:868:HIS:CE1	1:B:872:TYR:CE1	3.07	0.42
1:B:1738:CYS:O	1:B:1742:THR:HG22	2.19	0.42
1:B:2069:HIS:O	1:B:2069:HIS:HD2	2.02	0.42
1:B:2215:ILE:HD11	1:B:2285:LEU:C	2.39	0.42
1:B:2375:LEU:HD22	1:C:2355:LEU:HD11	2.01	0.42
1:C:612:LYS:C	1:C:612:LYS:CD	2.87	0.42
1:C:1036:PHE:HB3	1:C:1085:ARG:CZ	2.48	0.42
1:D:231:LEU:HG	1:D:234:VAL:HG23	2.00	0.42
1:D:319:GLU:OE2	1:D:352:TYR:HE1	2.01	0.42
1:D:760:ILE:HG22	1:D:764:MET:HE1	1.93	0.42
1:D:847:GLU:OE2	1:D:848:ALA:O	2.37	0.42
1:D:888:LEU:HB3	1:D:971:ILE:HG23	2.01	0.42
1:A:743:ARG:HG2	1:A:743:ARG:HH11	1.84	0.42
1:A:868:HIS:O	1:A:872:TYR:HD1	2.03	0.42
1:A:2354:THR:CG2	1:D:2368:SER:OG	2.68	0.42
1:B:383:ARG:CZ	1:B:383:ARG:HB3	2.49	0.42
1:B:526:PHE:CD1	1:B:538:LEU:HG	2.53	0.42
1:B:1393:LEU:HG	1:B:1421:TYR:CZ	2.54	0.42
1:D:315:LEU:HD23	1:D:367:PHE:CE2	2.54	0.42
1:D:878:PHE:O	1:D:878:PHE:CD2	2.72	0.42
1:D:1986:MET:CE	1:D:2035:GLN:NE2	2.83	0.42
1:B:406:ASP:OD1	1:B:406:ASP:N	2.52	0.42
1:B:729:TYR:O	1:B:733:LEU:CD2	2.67	0.42
1:B:1335:PHE:HE1	1:B:1368:LEU:HD21	1.83	0.42
1:B:2203:LEU:CD1	1:B:2207:ILE:HD11	2.48	0.42
1:C:561:ARG:NE	1:C:593:ASP:OD1	2.51	0.42
1:C:855:GLU:OE1	1:C:858:LYS:NZ	2.53	0.42
1:C:1604:GLU:C	1:C:1604:GLU:CD	2.78	0.42
1:C:2401:ARG:HH11	1:C:2401:ARG:HG3	1.84	0.42
1:C:2548:PHE:CE1	1:C:2558:HIS:CG	3.08	0.42
1:D:32:VAL:HG21	1:D:475:LEU:HD13	2.01	0.42
1:D:729:TYR:CE2	1:D:733:LEU:HD21	2.55	0.42
1:D:836:PHE:CD1	1:D:836:PHE:O	2.71	0.42
1:D:1318:GLN:O	1:D:1375:CYS:SG	2.78	0.42
1:D:1970:ILE:HD13	1:D:1999:LEU:HD23	2.01	0.42
1:D:1978:ILE:HD13	1:D:1992:LEU:CD2	2.49	0.42
1:D:2215:ILE:HD11	1:D:2285:LEU:C	2.39	0.42
1:A:1197:LEU:CB	1:A:1235:PHE:HE1	2.31	0.42
1:B:139:LEU:HD23	1:B:139:LEU:HA	1.89	0.42
1:B:595:ILE:CG2	1:B:596:THR:N	2.82	0.42
1:B:759:LEU:HD23	1:B:759:LEU:C	2.39	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1050:GLU:CG	1:B:1054:MET:CE	2.97	0.42
1:B:1671:GLN:OE1	1:B:1671:GLN:HA	2.19	0.42
1:B:1678:LYS:HE2	1:B:1678:LYS:HB3	1.90	0.42
1:B:1953:HIS:CE1	1:B:2007:ARG:NE	2.88	0.42
1:C:106:THR:HG23	1:C:107:GLU:N	2.34	0.42
1:C:606:LEU:HD13	1:C:606:LEU:O	2.19	0.42
1:C:1110:ILE:HD12	1:C:1182:MET:HE3	1.82	0.42
1:D:878:PHE:CD2	1:D:878:PHE:C	2.90	0.42
1:D:2136:ILE:HG21	1:D:2571:PHE:CE1	2.55	0.42
1:A:1464:LEU:O	1:A:1464:LEU:HD23	2.20	0.42
1:B:1660:LYS:CA	1:B:1663:ILE:HG22	2.49	0.42
1:B:2536:THR:HB	1:B:2545:ARG:HH12	1.84	0.42
1:C:497:MET:SD	1:C:498:VAL:N	2.93	0.42
1:C:729:TYR:CE2	1:C:733:LEU:HD21	2.54	0.42
1:C:1324:GLU:OE1	1:C:1324:GLU:HA	2.19	0.42
1:D:1607:LYS:H	1:D:1607:LYS:HG3	1.68	0.42
1:D:2166:SER:HB2	1:D:2604:ARG:HH11	1.85	0.42
1:D:2219:ILE:HD11	1:D:2338:GLU:HB2	2.00	0.42
1:D:2261:ILE:O	1:D:2261:ILE:HG22	2.20	0.42
1:A:1619:ASP:OD2	1:A:1687:ARG:NH2	2.52	0.42
1:B:18:ALA:HB2	1:B:219:TRP:CZ3	2.54	0.42
1:B:305:ARG:CZ	1:B:366:LEU:CD2	2.98	0.42
1:B:656:VAL:CG2	1:B:739:MET:HE1	2.48	0.42
1:B:729:TYR:CE2	1:B:733:LEU:HD21	2.54	0.42
1:B:1322:MET:HG2	1:B:1375:CYS:SG	2.60	0.42
1:B:1938:ILE:HG22	1:B:1992:LEU:HD13	2.01	0.42
1:C:630:PHE:N	1:C:630:PHE:CD1	2.87	0.42
1:C:652:ILE:HG23	1:C:656:VAL:CG2	2.50	0.42
1:C:716:ARG:NH1	1:C:716:ARG:HB2	2.35	0.42
1:C:840:TYR:O	1:C:840:TYR:CD1	2.72	0.42
1:C:2051:HIS:HE1	1:C:2139:PRO:CB	2.31	0.42
1:D:743:ARG:HG2	1:D:743:ARG:HH11	1.84	0.42
1:D:759:LEU:HD23	1:D:759:LEU:C	2.39	0.42
1:D:764:MET:HE1	1:D:781:MET:HB2	2.02	0.42
1:D:836:PHE:O	1:D:836:PHE:HD1	2.02	0.42
1:D:2020:LEU:CG	1:D:2025:LEU:HD13	2.50	0.42
1:A:18:ALA:HB2	1:A:219:TRP:CZ3	2.54	0.42
1:A:439:ILE:N	1:A:439:ILE:HD13	2.35	0.42
1:A:716:ARG:NH1	1:A:716:ARG:HB2	2.35	0.42
1:A:1082:PHE:CE2	1:A:1617:LEU:HD13	2.55	0.42
1:A:1400:VAL:HG11	1:A:1440:LEU:CD2	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2471:ARG:NH2	1:D:2477:GLY:HA3	2.35	0.42
1:B:375:GLN:OE1	1:B:375:GLN:HA	2.19	0.42
1:B:398:ILE:CD1	1:B:419:THR:HG22	2.47	0.42
1:B:1464:LEU:HD23	1:B:1464:LEU:O	2.20	0.42
1:C:550:GLN:O	1:C:554:ARG:CG	2.68	0.42
1:C:632:ASP:C	1:C:632:ASP:OD1	2.57	0.42
1:C:1464:LEU:O	1:C:1464:LEU:HD23	2.20	0.42
1:D:9:HIS:HD2	1:D:226:GLN:HE21	1.68	0.42
1:D:618:PHE:HB3	1:D:634:LEU:CD2	2.50	0.42
1:D:1464:LEU:O	1:D:1464:LEU:HD23	2.20	0.42
1:B:600:HIS:CE1	1:B:601:ASN:OD1	2.73	0.42
1:B:630:PHE:N	1:B:630:PHE:CD1	2.87	0.42
1:B:1665:VAL:O	1:B:1669:LEU:HG	2.19	0.42
1:B:1758:ILE:HD13	1:B:1875:ARG:HG2	2.01	0.42
1:C:401:THR:HG22	1:C:403:VAL:HG22	2.01	0.42
1:C:797:VAL:HG21	1:C:983:LEU:HD23	2.00	0.42
1:C:1931:GLU:N	1:C:1931:GLU:OE2	2.52	0.42
1:C:2481:ARG:CZ	1:D:2402:LEU:HD21	2.49	0.42
1:D:18:ALA:HB2	1:D:219:TRP:CZ3	2.54	0.42
1:D:2314:MET:CE	1:D:2320:PHE:CZ	2.91	0.42
1:A:1044:MET:SD	1:A:1045:LEU:N	2.93	0.42
1:A:1866:SER:O	1:A:1869:ILE:HG22	2.20	0.42
1:B:236:LYS:CG	1:B:239:ASP:OD2	2.68	0.42
1:B:975:LEU:O	1:B:979:LEU:HG	2.20	0.42
1:B:1338:ASP:OD1	1:B:1339:LYS:N	2.51	0.42
1:B:2119:ASN:OD1	1:B:2119:ASN:C	2.58	0.42
1:C:759:LEU:HD23	1:C:759:LEU:C	2.39	0.42
1:D:1999:LEU:HD11	1:D:2003:LEU:HD21	1.99	0.42
1:B:135:VAL:HG23	1:B:212:SER:HG	1.80	0.41
1:B:871:ILE:HD13	1:B:974:ILE:HG23	2.01	0.41
1:B:2124:ILE:CD1	1:B:2571:PHE:CD1	3.03	0.41
1:B:2178:LEU:O	1:B:2182:MET:HG2	2.19	0.41
1:B:2389:LEU:HD23	1:B:2389:LEU:HA	1.92	0.41
1:B:2560:LYS:HD2	1:B:2560:LYS:O	2.20	0.41
1:C:158:GLU:CG	1:C:161:TRP:CZ3	3.02	0.41
1:C:507:LYS:O	1:C:511:GLU:HG3	2.19	0.41
1:C:868:HIS:HA	1:C:974:ILE:HD11	2.01	0.41
1:D:75:LYS:HB2	1:D:75:LYS:HE3	1.78	0.41
1:D:1055:PHE:CZ	1:D:1059:LEU:HD11	2.55	0.41
1:D:1648:ILE:HD13	1:D:1731:GLU:HB3	1.89	0.41
1:A:964:VAL:HG12	1:A:968:LYS:HZ1	1.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1987:ASP:OD1	1:A:1987:ASP:N	2.53	0.41
1:B:797:VAL:HG21	1:B:983:LEU:HD23	2.02	0.41
1:B:1082:PHE:CE2	1:B:1617:LEU:HD13	2.55	0.41
1:B:1211:GLN:HE22	1:B:1252:LEU:HD13	1.83	0.41
1:B:2155:LEU:HA	1:B:2158:THR:HG22	2.02	0.41
1:C:630:PHE:N	1:C:630:PHE:HD1	2.18	0.41
1:C:1930:ASN:HD21	1:C:1932:ASP:HB3	1.84	0.41
1:C:2009:ASP:HB2	1:C:2011:GLU:OE1	2.21	0.41
1:A:630:PHE:N	1:A:630:PHE:CD1	2.87	0.41
1:B:304:TYR:CE2	1:B:369:LEU:HD11	2.55	0.41
1:B:630:PHE:N	1:B:630:PHE:HD1	2.18	0.41
1:B:1348:MET:HE2	1:B:1362:LEU:CB	2.49	0.41
1:B:1786:PHE:CD1	1:B:1895:GLN:NE2	2.88	0.41
1:B:1970:ILE:HD13	1:B:1999:LEU:HD23	2.01	0.41
1:B:2015:ARG:HG3	1:B:2015:ARG:HH11	1.84	0.41
1:C:17:TYR:HD2	1:C:45:LEU:HD11	1.85	0.41
1:C:18:ALA:HB2	1:C:219:TRP:CZ3	2.54	0.41
1:C:103:GLN:CA	1:C:106:THR:HG22	2.50	0.41
1:C:962:ILE:HA	1:C:965:MET:CG	2.49	0.41
1:C:1023:MET:HG2	1:C:1025:LEU:CD2	2.50	0.41
1:D:582:GLN:HA	1:D:585:ILE:HD12	2.02	0.41
1:D:1987:ASP:OD1	1:D:1987:ASP:N	2.54	0.41
1:D:2584:THR:HG22	1:D:2585:GLY:N	2.36	0.41
1:A:1970:ILE:HD13	1:A:1999:LEU:HD23	2.01	0.41
1:B:363:ILE:N	1:B:363:ILE:HD13	2.35	0.41
1:B:480:VAL:HG11	1:B:493:VAL:HG22	2.03	0.41
1:B:1318:GLN:O	1:B:1375:CYS:SG	2.78	0.41
1:B:1349:MET:SD	1:B:1406:ILE:CG2	3.06	0.41
1:C:480:VAL:HG11	1:C:493:VAL:HG22	2.02	0.41
1:C:522:LEU:HD11	1:C:557:TYR:CZ	2.56	0.41
1:C:888:LEU:HB3	1:C:971:ILE:HG23	2.03	0.41
1:C:1400:VAL:HG11	1:C:1440:LEU:CD2	2.50	0.41
1:D:526:PHE:CD1	1:D:538:LEU:HG	2.56	0.41
1:D:729:TYR:O	1:D:733:LEU:CD2	2.67	0.41
1:A:575:ALA:HB2	1:A:598:LEU:HD21	2.03	0.41
1:B:439:ILE:N	1:B:439:ILE:HD13	2.35	0.41
1:B:793:LEU:HD23	1:B:872:TYR:O	2.20	0.41
1:B:1055:PHE:CZ	1:B:1059:LEU:HD11	2.55	0.41
1:B:1590:ASN:HA	1:B:1593:GLU:OE2	2.21	0.41
1:B:1987:ASP:N	1:B:1987:ASP:OD1	2.53	0.41
1:B:2142:GLY:O	1:B:2145:GLN:HG2	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2468:HIS:O	1:B:2472:ASN:N	2.54	0.41
1:C:729:TYR:O	1:C:733:LEU:CD2	2.67	0.41
1:C:2119:ASN:OD1	1:C:2119:ASN:C	2.58	0.41
1:C:2468:HIS:O	1:C:2472:ASN:N	2.54	0.41
1:D:550:GLN:O	1:D:554:ARG:CG	2.69	0.41
1:D:1033:GLU:OE1	1:D:1033:GLU:O	2.38	0.41
1:D:1938:ILE:HG13	1:D:1939:GLN:N	2.36	0.41
1:D:2146:PHE:CE1	1:D:2186:ARG:HB2	2.55	0.41
1:D:2555:PHE:O	1:D:2559:ILE:HG12	2.21	0.41
1:A:480:VAL:HG11	1:A:493:VAL:HG22	2.03	0.41
1:A:2555:PHE:O	1:A:2559:ILE:HG12	2.21	0.41
1:B:575:ALA:HB2	1:B:598:LEU:HD21	2.03	0.41
1:B:961:ASP:OD1	1:B:965:MET:CE	2.69	0.41
1:B:1400:VAL:HG11	1:B:1440:LEU:CD2	2.50	0.41
1:B:1626:LEU:HB3	1:B:1695:LEU:HD22	2.01	0.41
1:B:1648:ILE:HD11	1:B:1731:GLU:CB	2.47	0.41
1:B:1758:ILE:CD1	1:B:1875:ARG:HG2	2.50	0.41
1:B:2261:ILE:O	1:B:2261:ILE:HG22	2.19	0.41
1:C:370:ASP:OD2	1:C:370:ASP:C	2.58	0.41
1:C:489:ASN:CA	1:C:491:GLN:OE1	2.68	0.41
1:C:1082:PHE:CE2	1:C:1617:LEU:HD13	2.55	0.41
1:C:1987:ASP:OD1	1:C:1987:ASP:N	2.53	0.41
1:D:630:PHE:N	1:D:630:PHE:HD1	2.18	0.41
1:D:656:VAL:CG2	1:D:739:MET:HE1	2.51	0.41
1:D:1322:MET:HG2	1:D:1383:THR:HG22	2.02	0.41
1:D:1400:VAL:HG11	1:D:1440:LEU:CD2	2.50	0.41
1:D:1953:HIS:CE1	1:D:2007:ARG:NE	2.88	0.41
1:D:2316:MET:HB3	1:D:2316:MET:HE2	1.86	0.41
1:A:1438:TRP:CE3	1:A:1497:ILE:HG21	2.56	0.41
1:B:1428:MET:HB2	1:B:1431:ILE:HD12	2.02	0.41
1:B:2555:PHE:O	1:B:2559:ILE:HG12	2.21	0.41
1:C:135:VAL:O	1:C:135:VAL:HG13	2.21	0.41
1:C:732:GLN:HG2	1:C:736:PHE:HE2	1.84	0.41
1:C:1438:TRP:CE3	1:C:1497:ILE:HG21	2.56	0.41
1:D:1221:MET:HE3	1:D:1225:LEU:HD11	2.00	0.41
1:D:1724:THR:O	1:D:1728:LEU:HD23	2.20	0.41
1:D:1975:LEU:HD12	1:D:2024:GLU:HB2	2.02	0.41
1:A:884:LEU:O	1:A:888:LEU:HG	2.21	0.41
1:A:2584:THR:HG22	1:A:2585:GLY:N	2.36	0.41
1:B:1866:SER:O	1:B:1869:ILE:HG22	2.21	0.41
1:B:1870:MET:HE3	1:B:1910:PHE:CD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2375:LEU:HD22	1:C:2359:ILE:HD11	2.01	0.41
1:C:439:ILE:HD13	1:C:439:ILE:N	2.35	0.41
1:C:1994:ASP:C	1:C:1994:ASP:OD1	2.58	0.41
1:D:1372:LEU:HD23	1:D:1372:LEU:HA	1.80	0.41
1:D:1438:TRP:CE3	1:D:1497:ILE:HG21	2.56	0.41
1:D:2147:LEU:HB2	1:D:2182:MET:HE2	1.99	0.41
1:D:2154:ARG:O	1:D:2158:THR:HG22	2.20	0.41
1:A:550:GLN:O	1:A:554:ARG:CG	2.69	0.41
1:A:630:PHE:N	1:A:630:PHE:HD1	2.18	0.41
1:A:871:ILE:HD13	1:A:974:ILE:HG23	2.01	0.41
1:A:1055:PHE:CZ	1:A:1059:LEU:HD11	2.55	0.41
1:A:1320:MET:O	1:A:1324:GLU:HG3	2.20	0.41
1:A:1724:THR:O	1:A:1728:LEU:HD23	2.20	0.41
1:A:1775:LEU:HD23	1:A:1775:LEU:HA	1.97	0.41
1:A:2468:HIS:O	1:A:2472:ASN:N	2.54	0.41
1:B:32:VAL:HG22	1:B:451:MET:HE1	2.02	0.41
1:B:1056:LEU:HD22	1:B:1627:LEU:HD13	2.02	0.41
1:B:1125:GLU:OE2	1:B:1125:GLU:N	2.53	0.41
1:B:1438:TRP:CE3	1:B:1497:ILE:HG21	2.56	0.41
1:B:1724:THR:O	1:B:1728:LEU:HD23	2.21	0.41
1:B:2154:ARG:O	1:B:2158:THR:HG22	2.21	0.41
1:B:2222:PHE:CD2	1:B:2222:PHE:N	2.87	0.41
1:C:416:MET:SD	1:C:417:LEU:O	2.79	0.41
1:C:834:MET:HE1	1:C:876:TYR:CD2	2.56	0.41
1:C:840:TYR:CE1	1:C:844:VAL:CG2	3.04	0.41
1:D:277:THR:O	1:D:507:LYS:NZ	2.54	0.41
1:D:575:ALA:HB2	1:D:598:LEU:HD21	2.03	0.41
1:D:1094:GLN:O	1:D:1096:GLN:NE2	2.54	0.41
1:D:1255:THR:CG2	1:D:1260:GLU:OE1	2.52	0.41
1:D:1320:MET:O	1:D:1324:GLU:HG3	2.20	0.41
1:D:1372:LEU:HB3	1:D:1416:PHE:HE2	1.86	0.41
1:A:1362:LEU:HD12	1:A:1362:LEU:O	2.21	0.41
1:A:1896:ASN:O	1:A:1896:ASN:OD1	2.38	0.41
1:B:545:LYS:HD3	1:C:1394:GLU:OE1	2.21	0.41
1:B:550:GLN:O	1:B:554:ARG:HG2	2.21	0.41
1:B:550:GLN:O	1:B:554:ARG:CG	2.69	0.41
1:B:853:ASN:O	1:B:857:ASN:OD1	2.39	0.41
1:B:1362:LEU:O	1:B:1362:LEU:HD12	2.20	0.41
1:B:2130:ASP:OD2	1:B:2132:SER:OG	2.39	0.41
1:B:2530:LYS:HB3	1:B:2530:LYS:NZ	2.35	0.41
1:C:1596:GLN:O	1:C:1596:GLN:OE1	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1866:SER:O	1:C:1869:ILE:HG22	2.21	0.41
1:C:2189:ARG:CZ	1:C:2189:ARG:HB3	2.51	0.41
1:C:2261:ILE:HG22	1:C:2261:ILE:O	2.19	0.41
1:D:986:ARG:HE	1:D:986:ARG:HB2	1.64	0.41
1:D:1671:GLN:OE1	1:D:1674:LEU:HD13	2.21	0.41
1:D:2383:PHE:CD2	1:D:2500:PHE:HD2	2.39	0.41
1:A:277:THR:O	1:A:507:LYS:NZ	2.54	0.40
1:A:398:ILE:HG22	1:A:399:GLN:N	2.36	0.40
1:A:398:ILE:CD1	1:A:419:THR:HG22	2.48	0.40
1:A:1985:ARG:HB3	1:A:1988:LEU:HD12	2.03	0.40
1:B:592:GLU:HB3	1:B:633:TYR:OH	2.21	0.40
1:B:834:MET:SD	1:B:876:TYR:CE2	3.15	0.40
1:B:1335:PHE:CE1	1:B:1368:LEU:HD21	2.55	0.40
1:C:734:LYS:HZ3	1:C:738:ARG:NH1	2.19	0.40
1:C:1071:VAL:CG1	1:C:1650:HIS:CD2	3.05	0.40
1:C:1612:ALA:O	1:C:1616:VAL:HG23	2.21	0.40
1:C:2154:ARG:O	1:C:2158:THR:CG2	2.67	0.40
1:C:2584:THR:HG22	1:C:2585:GLY:N	2.36	0.40
1:D:398:ILE:HG22	1:D:399:GLN:N	2.36	0.40
1:D:1772:PHE:C	1:D:1776:MET:HE3	2.41	0.40
1:D:1783:GLU:H	1:D:1783:GLU:CD	2.24	0.40
1:A:2261:ILE:O	1:A:2261:ILE:HG22	2.19	0.40
1:B:135:VAL:O	1:B:135:VAL:HG13	2.21	0.40
1:B:277:THR:O	1:B:507:LYS:NZ	2.54	0.40
1:B:760:ILE:HD12	1:B:785:HIS:HE1	1.86	0.40
1:B:1393:LEU:CD1	1:B:1430:GLU:HG3	2.52	0.40
1:B:1612:ALA:O	1:B:1616:VAL:HG23	2.21	0.40
1:C:653:CYS:HA	1:C:739:MET:HE2	2.03	0.40
1:C:1054:MET:HE2	1:C:1057:ARG:HH21	1.86	0.40
1:C:1527:ARG:CB	1:C:1531:MET:HE1	2.44	0.40
1:C:1896:ASN:C	1:C:1896:ASN:OD1	2.60	0.40
1:D:405:ILE:HB	1:D:414:ARG:HB2	2.02	0.40
1:D:606:LEU:HD13	1:D:606:LEU:C	2.42	0.40
1:D:2162:ASP:OD2	1:D:2163:GLU:OE2	2.39	0.40
1:A:1612:ALA:O	1:A:1616:VAL:HG23	2.21	0.40
1:A:1651:THR:HG23	1:A:1665:VAL:HG21	2.03	0.40
1:A:1942:GLU:O	1:A:1942:GLU:OE2	2.40	0.40
1:B:32:VAL:CG2	1:B:451:MET:CE	2.99	0.40
1:B:153:ASP:OD1	1:B:153:ASP:C	2.57	0.40
1:B:666:ILE:CD1	1:B:728:TYR:HD1	2.35	0.40
1:C:1094:GLN:O	1:C:1096:GLN:NE2	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1724:THR:O	1:C:1728:LEU:HD23	2.20	0.40
1:C:1985:ARG:HB3	1:C:1988:LEU:HD12	2.03	0.40
1:D:550:GLN:O	1:D:554:ARG:HG2	2.21	0.40
1:D:2468:HIS:O	1:D:2472:ASN:N	2.54	0.40
1:D:2535:LYS:HD3	1:D:2535:LYS:N	2.36	0.40
1:A:168:TRP:CH2	1:B:425:ASP:HB2	2.57	0.40
1:A:1197:LEU:HB2	1:A:1235:PHE:CE1	2.56	0.40
1:A:1970:ILE:HD13	1:A:1999:LEU:CD2	2.52	0.40
1:B:75:LYS:HE3	1:B:75:LYS:HB2	1.89	0.40
1:B:305:ARG:CZ	1:B:366:LEU:HD21	2.50	0.40
1:B:1735:LYS:CD	1:B:1775:LEU:HD11	2.50	0.40
1:B:1863:MET:CE	1:B:1863:MET:HA	2.51	0.40
1:C:853:ASN:O	1:C:857:ASN:OD1	2.39	0.40
1:C:1191:LYS:NZ	1:C:1238:GLY:O	2.55	0.40
1:C:1301:ASP:N	1:C:1301:ASP:OD1	2.54	0.40
1:C:2054:TYR:CD1	1:C:2054:TYR:C	2.95	0.40
1:D:91:GLN:OE1	1:D:92:LYS:N	2.55	0.40
1:D:1301:ASP:OD1	1:D:1301:ASP:N	2.54	0.40
1:D:2125:GLU:HB3	1:D:2133:MET:CE	2.52	0.40
1:D:2130:ASP:OD2	1:D:2132:SER:OG	2.39	0.40
1:D:2131:ARG:CG	1:D:2131:ARG:HH11	2.32	0.40
1:D:2146:PHE:CD1	1:D:2186:ARG:CA	3.04	0.40
1:A:606:LEU:HD13	1:A:606:LEU:C	2.42	0.40
1:A:983:LEU:HD21	1:A:1091:THR:HG21	2.03	0.40
1:A:1428:MET:HB2	1:A:1431:ILE:HD12	2.02	0.40
1:B:1644:LEU:O	1:B:1648:ILE:CG1	2.58	0.40
1:B:1691:LEU:O	1:B:1695:LEU:N	2.55	0.40
1:B:1896:ASN:OD1	1:B:1896:ASN:C	2.60	0.40
1:B:2017:LEU:HD21	1:B:2060:LEU:HB3	2.03	0.40
1:C:406:ASP:OD1	1:C:406:ASP:N	2.52	0.40
1:C:575:ALA:CA	1:C:598:LEU:HD11	2.52	0.40
1:C:606:LEU:HD13	1:C:606:LEU:C	2.42	0.40
1:C:606:LEU:O	1:C:610:ILE:HG12	2.21	0.40
1:C:743:ARG:HG2	1:C:743:ARG:HH11	1.87	0.40
1:C:1528:THR:CA	1:C:1531:MET:CE	2.95	0.40
1:C:2131:ARG:HH11	1:C:2131:ARG:HG3	1.87	0.40
1:C:2482:LYS:CE	1:D:2398:GLU:O	2.69	0.40
1:D:961:ASP:OD1	1:D:965:MET:CE	2.69	0.40
1:D:1193:GLN:O	1:D:1197:LEU:CD1	2.58	0.40
1:D:1896:ASN:OD1	1:D:1896:ASN:C	2.60	0.40
1:D:2543:LEU:HD11	1:D:2605:MET:C	2.41	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	2238/2671 (84%)	2202 (98%)	36 (2%)	0	100	100
1	B	2238/2671 (84%)	2202 (98%)	36 (2%)	0	100	100
1	C	2238/2671 (84%)	2203 (98%)	35 (2%)	0	100	100
1	D	2238/2671 (84%)	2203 (98%)	35 (2%)	0	100	100
All	All	8952/10684 (84%)	8810 (98%)	142 (2%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	2021/2385 (85%)	1977 (98%)	44 (2%)	47	69
1	B	2021/2385 (85%)	1966 (97%)	55 (3%)	40	65
1	C	2021/2385 (85%)	1974 (98%)	47 (2%)	45	68
1	D	2021/2385 (85%)	1963 (97%)	58 (3%)	37	63
All	All	8084/9540 (85%)	7880 (98%)	204 (2%)	43	66

All (204) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	64	ARG
1	A	284	GLU
1	A	402	ASN
1	A	492	ASN
1	A	567	TYR
1	A	611	THR
1	A	636	ASP
1	A	767	GLU
1	A	818	ASN
1	A	832	ASN
1	A	836	PHE
1	A	878	PHE
1	A	886	ARG
1	A	991	LEU
1	A	1023	MET
1	A	1044	MET
1	A	1048	ASP
1	A	1067	TYR
1	A	1201	ASP
1	A	1208	ASP
1	A	1226	ARG
1	A	1452	CYS
1	A	1507	ARG
1	A	1551	MET
1	A	1622	HIS
1	A	1655	MET
1	A	1656	GLU
1	A	1664	LYS
1	A	1745	LYS
1	A	1883	ASN
1	A	1886	ARG
1	A	1895	GLN
1	A	1901	TYR
1	A	1927	LEU
1	A	1946	GLU
1	A	2006	SER
1	A	2014	GLU
1	A	2048	GLU
1	A	2054	TYR
1	A	2191	MET
1	A	2206	SER
1	A	2383	PHE
1	A	2460	MET

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Mol	Chain	Res	Type
1	A	2608	MET
1	B	64	ARG
1	B	110	LYS
1	B	203	ASP
1	B	284	GLU
1	B	301	ASN
1	B	416	MET
1	B	471	PHE
1	B	492	ASN
1	B	497	MET
1	B	544	GLN
1	B	567	TYR
1	B	611	THR
1	B	636	ASP
1	B	640	SER
1	B	818	ASN
1	B	832	ASN
1	B	836	PHE
1	B	886	ARG
1	B	973	GLU
1	B	1023	MET
1	B	1035	MET
1	B	1044	MET
1	B	1048	ASP
1	B	1067	TYR
1	B	1093	LYS
1	B	1201	ASP
1	B	1208	ASP
1	B	1226	ARG
1	B	1235	PHE
1	B	1322	MET
1	B	1452	CYS
1	B	1507	ARG
1	B	1551	MET
1	B	1604	GLU
1	B	1655	MET
1	B	1672	MET
1	B	1745	LYS
1	B	1751	GLN
1	B	1773	HIS
1	B	1883	ASN
1	B	1886	ARG

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Mol	Chain	Res	Type
1	B	1892	LEU
1	B	1895	GLN
1	B	1901	TYR
1	B	1973	LEU
1	B	2054	TYR
1	B	2065	LYS
1	B	2145	GLN
1	B	2182	MET
1	B	2191	MET
1	B	2206	SER
1	B	2383	PHE
1	B	2460	MET
1	B	2466	MET
1	B	2571	PHE
1	C	64	ARG
1	C	144	GLU
1	C	284	GLU
1	C	301	ASN
1	C	491	GLN
1	C	492	ASN
1	C	497	MET
1	C	567	TYR
1	C	611	THR
1	C	727	SER
1	C	818	ASN
1	C	832	ASN
1	C	836	PHE
1	C	858	LYS
1	C	886	ARG
1	C	1023	MET
1	C	1044	MET
1	C	1048	ASP
1	C	1067	TYR
1	C	1076	GLN
1	C	1087	GLU
1	C	1199	ASN
1	C	1201	ASP
1	C	1208	ASP
1	C	1226	ARG
1	C	1286	PHE
1	C	1322	MET
1	C	1452	CYS

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Mol	Chain	Res	Type
1	C	1507	ARG
1	C	1589	LYS
1	C	1593	GLU
1	C	1622	HIS
1	C	1655	MET
1	C	1671	GLN
1	C	1883	ASN
1	C	1886	ARG
1	C	1895	GLN
1	C	1901	TYR
1	C	1927	LEU
1	C	2006	SER
1	C	2054	TYR
1	C	2191	MET
1	C	2206	SER
1	C	2368	SER
1	C	2383	PHE
1	C	2460	MET
1	C	2588	SER
1	D	64	ARG
1	D	75	LYS
1	D	110	LYS
1	D	172	SER
1	D	239	ASP
1	D	264	PHE
1	D	279	SER
1	D	284	GLU
1	D	301	ASN
1	D	471	PHE
1	D	492	ASN
1	D	566	ASP
1	D	567	TYR
1	D	611	THR
1	D	636	ASP
1	D	640	SER
1	D	641	ASN
1	D	818	ASN
1	D	832	ASN
1	D	836	PHE
1	D	857	ASN
1	D	878	PHE
1	D	886	ARG

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Mol	Chain	Res	Type
1	D	927	MET
1	D	1044	MET
1	D	1048	ASP
1	D	1067	TYR
1	D	1182	MET
1	D	1201	ASP
1	D	1208	ASP
1	D	1221	MET
1	D	1226	ARG
1	D	1232	LEU
1	D	1239	ASN
1	D	1270	ASN
1	D	1288	HIS
1	D	1452	CYS
1	D	1507	ARG
1	D	1589	LYS
1	D	1622	HIS
1	D	1655	MET
1	D	1745	LYS
1	D	1773	HIS
1	D	1883	ASN
1	D	1886	ARG
1	D	1892	LEU
1	D	1895	GLN
1	D	1901	TYR
1	D	1912	ASP
1	D	1930	ASN
1	D	2054	TYR
1	D	2182	MET
1	D	2183	GLU
1	D	2191	MET
1	D	2206	SER
1	D	2355	LEU
1	D	2383	PHE
1	D	2571	PHE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (32) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	1288	HIS
1	B	76	GLN
1	B	123	GLN

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Mol	Chain	Res	Type
1	B	290	HIS
1	B	785	HIS
1	B	791	GLN
1	B	868	HIS
1	B	1086	GLN
1	B	1773	HIS
1	B	1953	HIS
1	B	2069	HIS
1	B	2120	HIS
1	B	2510	ASN
1	C	703	HIS
1	C	1065	HIS
1	C	1288	HIS
1	C	2051	HIS
1	D	108	ASN
1	D	123	GLN
1	D	226	GLN
1	D	290	HIS
1	D	609	HIS
1	D	703	HIS
1	D	785	HIS
1	D	791	GLN
1	D	1065	HIS
1	D	1243	GLN
1	D	1247	HIS
1	D	1271	ASN
1	D	1953	HIS
1	D	2035	GLN
1	D	2069	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry

Of 12 ligands modelled in this entry, 4 are monoatomic - leaving 8 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
4	ATP	D	3003	-	28,33,33	0.63	0	34,52,52	0.90	1 (2%)
3	I3P	A	3002	-	24,24,24	2.17	3 (12%)	39,39,39	0.86	0
3	I3P	B	3002	-	24,24,24	2.18	3 (12%)	39,39,39	0.86	0
3	I3P	D	3002	-	24,24,24	2.17	3 (12%)	39,39,39	0.87	0
4	ATP	A	3003	-	28,33,33	0.63	0	34,52,52	0.90	1 (2%)
4	ATP	B	3003	-	28,33,33	0.64	0	34,52,52	0.90	1 (2%)
4	ATP	C	3003	-	28,33,33	0.62	0	34,52,52	0.90	1 (2%)
3	I3P	C	3002	-	24,24,24	2.17	3 (12%)	39,39,39	0.86	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
4	ATP	D	3003	-	-	10/18/38/38	0/3/3/3
3	I3P	A	3002	-	-	0/15/39/39	0/1/1/1
3	I3P	B	3002	-	-	0/15/39/39	0/1/1/1
3	I3P	D	3002	-	-	0/15/39/39	0/1/1/1
4	ATP	A	3003	-	-	10/18/38/38	0/3/3/3
4	ATP	B	3003	-	-	10/18/38/38	0/3/3/3
4	ATP	C	3003	-	-	10/18/38/38	0/3/3/3
3	I3P	C	3002	-	-	0/15/39/39	0/1/1/1

All (12) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	3002	I3P	P4-O4	6.07	1.70	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	3002	I3P	P4-O4	6.04	1.70	1.59
3	C	3002	I3P	P4-O4	6.02	1.70	1.59
3	D	3002	I3P	P4-O4	6.01	1.70	1.59
3	B	3002	I3P	P5-O5	5.89	1.69	1.59
3	D	3002	I3P	P5-O5	5.89	1.69	1.59
3	A	3002	I3P	P5-O5	5.88	1.69	1.59
3	C	3002	I3P	P5-O5	5.88	1.69	1.59
3	A	3002	I3P	P1-O1	5.66	1.69	1.59
3	B	3002	I3P	P1-O1	5.65	1.69	1.59
3	D	3002	I3P	P1-O1	5.65	1.69	1.59
3	C	3002	I3P	P1-O1	5.64	1.69	1.59

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	3003	ATP	C5-C6-N6	2.32	123.84	120.31
4	D	3003	ATP	C5-C6-N6	2.32	123.84	120.31
4	C	3003	ATP	C5-C6-N6	2.31	123.82	120.31
4	B	3003	ATP	C5-C6-N6	2.30	123.82	120.31

There are no chirality outliers.

All (40) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	3003	ATP	PB-O3B-PG-O3G
4	A	3003	ATP	C5'-O5'-PA-O2A
4	A	3003	ATP	C5'-O5'-PA-O3A
4	B	3003	ATP	PB-O3B-PG-O3G
4	B	3003	ATP	C5'-O5'-PA-O2A
4	B	3003	ATP	C5'-O5'-PA-O3A
4	C	3003	ATP	PB-O3B-PG-O3G
4	C	3003	ATP	C5'-O5'-PA-O2A
4	C	3003	ATP	C5'-O5'-PA-O3A
4	D	3003	ATP	PB-O3B-PG-O3G
4	D	3003	ATP	C5'-O5'-PA-O2A
4	D	3003	ATP	C5'-O5'-PA-O3A
4	A	3003	ATP	C3'-C4'-C5'-O5'
4	B	3003	ATP	C3'-C4'-C5'-O5'
4	C	3003	ATP	C3'-C4'-C5'-O5'
4	D	3003	ATP	C3'-C4'-C5'-O5'
4	A	3003	ATP	O4'-C4'-C5'-O5'
4	B	3003	ATP	O4'-C4'-C5'-O5'

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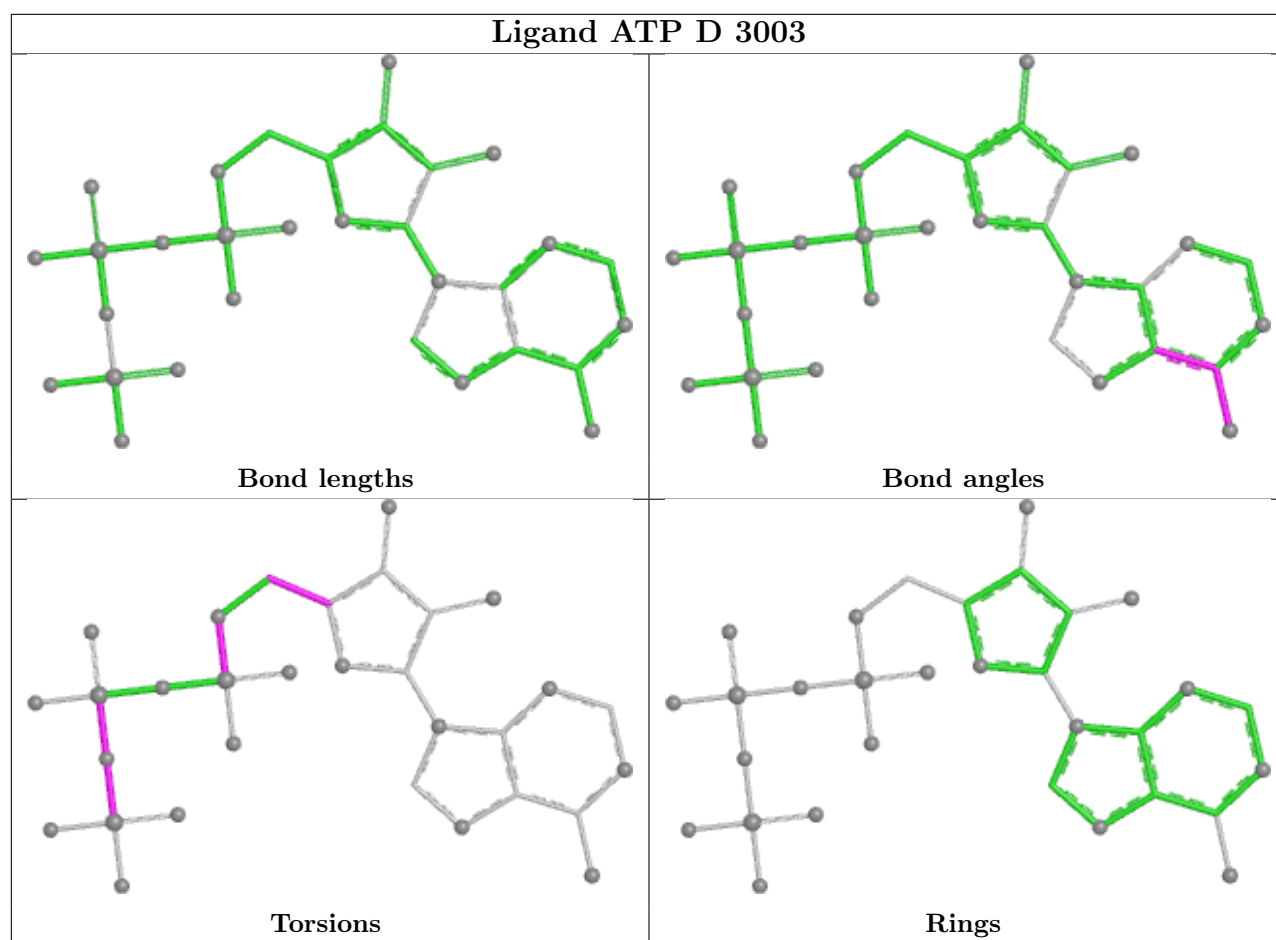
Mol	Chain	Res	Type	Atoms
4	C	3003	ATP	O4'-C4'-C5'-O5'
4	D	3003	ATP	O4'-C4'-C5'-O5'
4	A	3003	ATP	C5'-O5'-PA-O1A
4	B	3003	ATP	C5'-O5'-PA-O1A
4	C	3003	ATP	C5'-O5'-PA-O1A
4	D	3003	ATP	C5'-O5'-PA-O1A
4	A	3003	ATP	PB-O3B-PG-O1G
4	B	3003	ATP	PB-O3B-PG-O1G
4	C	3003	ATP	PB-O3B-PG-O1G
4	D	3003	ATP	PB-O3B-PG-O1G
4	A	3003	ATP	PB-O3B-PG-O2G
4	B	3003	ATP	PB-O3B-PG-O2G
4	C	3003	ATP	PB-O3B-PG-O2G
4	D	3003	ATP	PB-O3B-PG-O2G
4	A	3003	ATP	PG-O3B-PB-O1B
4	B	3003	ATP	PG-O3B-PB-O1B
4	C	3003	ATP	PG-O3B-PB-O1B
4	D	3003	ATP	PG-O3B-PB-O1B
4	A	3003	ATP	PG-O3B-PB-O2B
4	B	3003	ATP	PG-O3B-PB-O2B
4	C	3003	ATP	PG-O3B-PB-O2B
4	D	3003	ATP	PG-O3B-PB-O2B

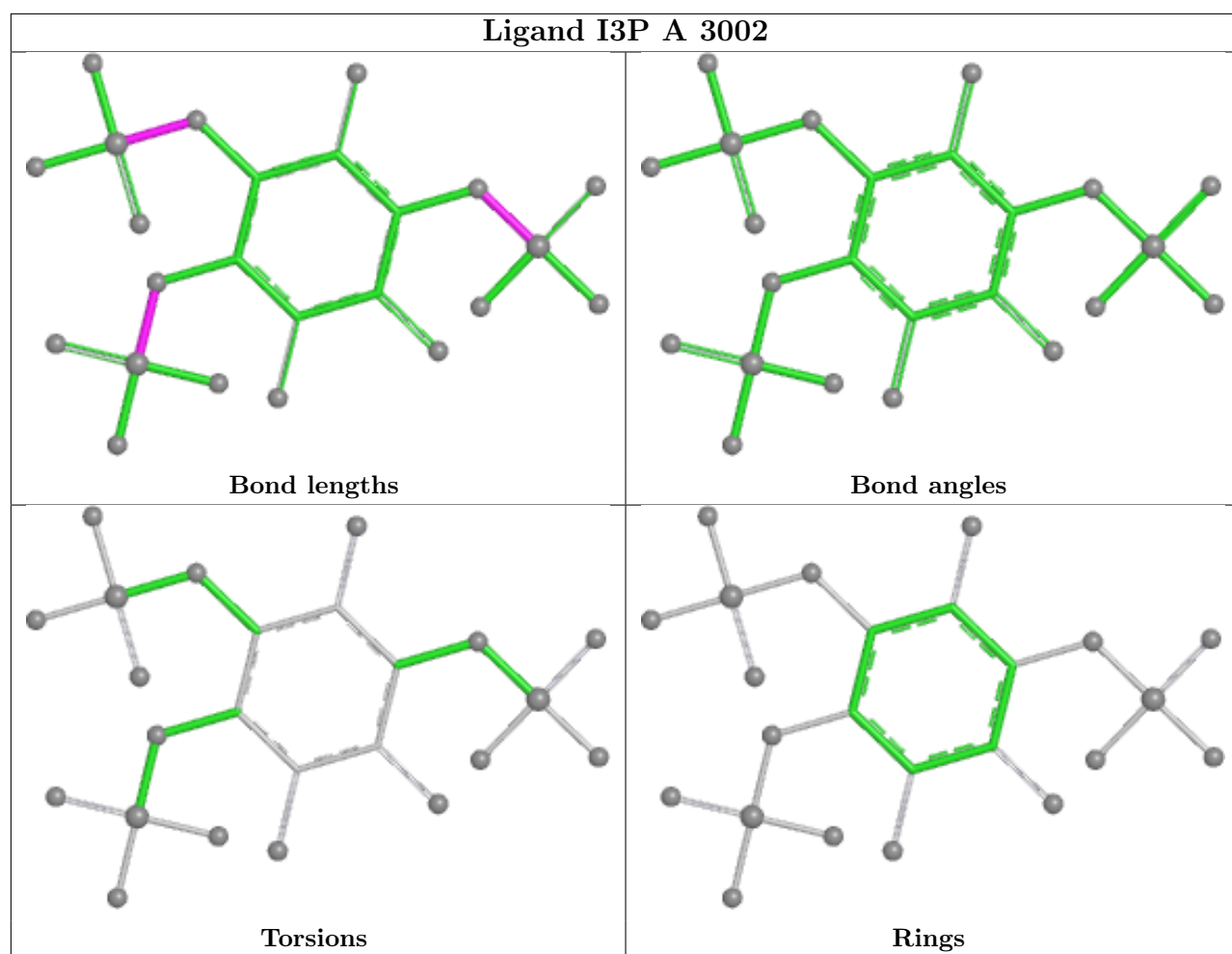
There are no ring outliers.

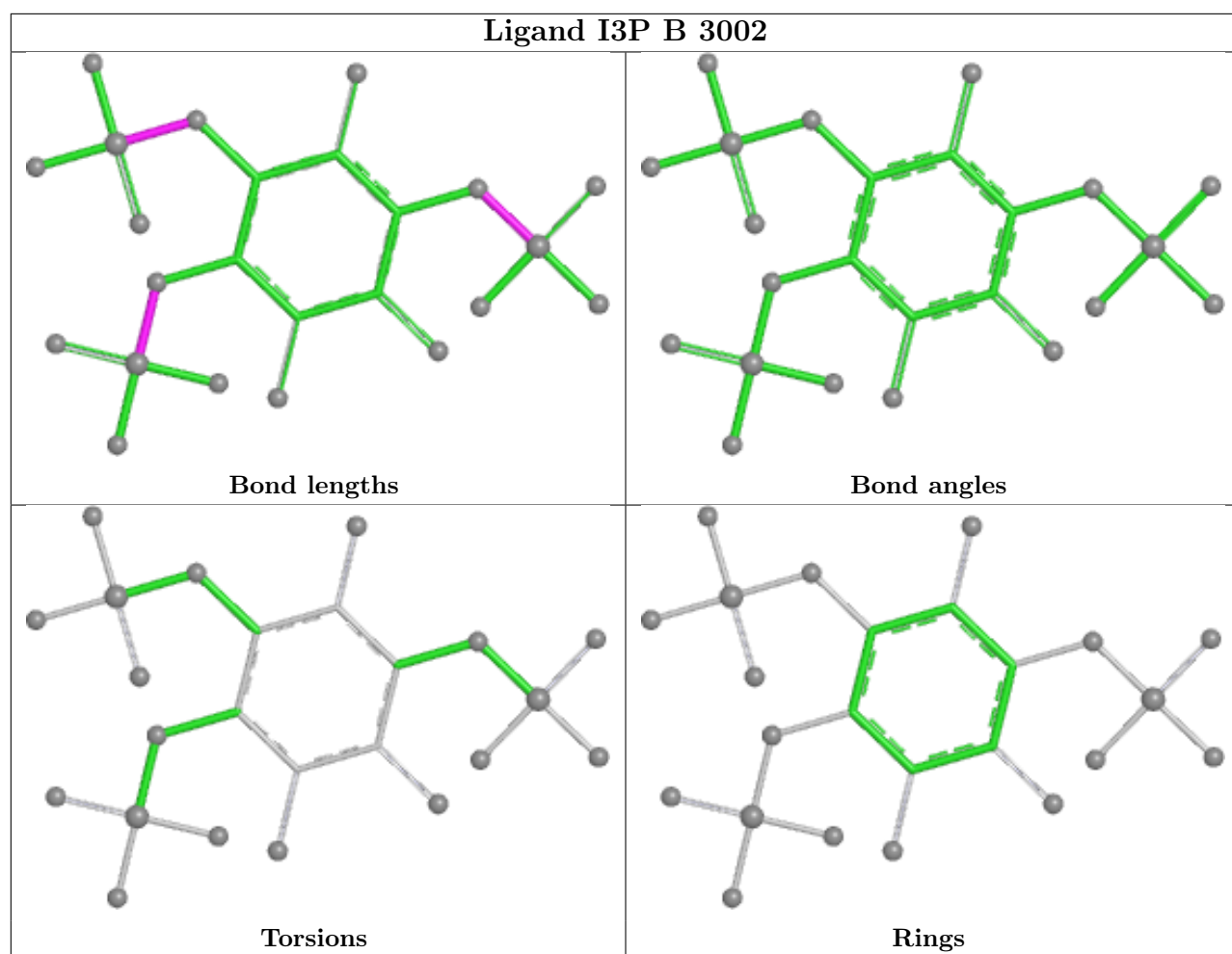
2 monomers are involved in 2 short contacts:

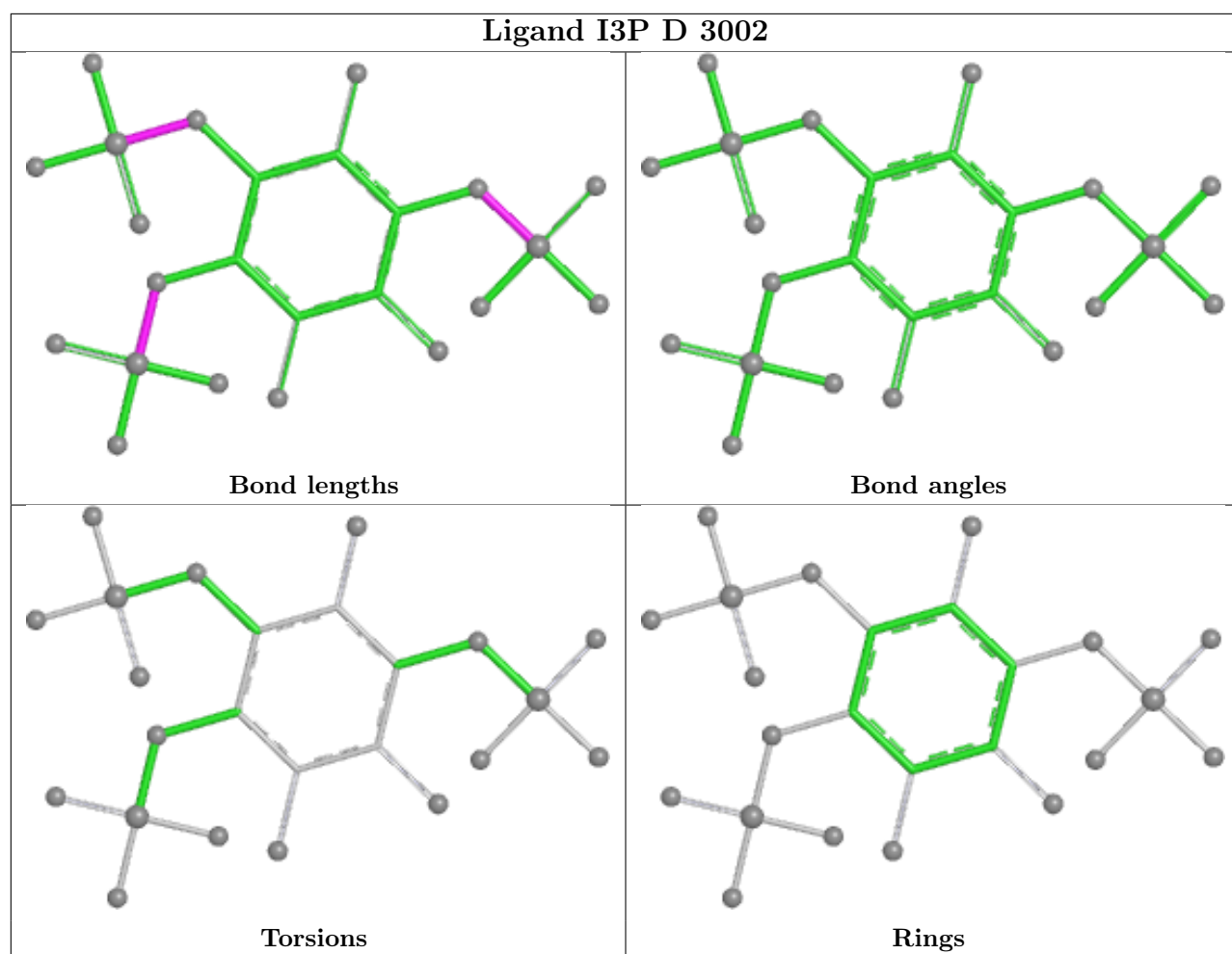
Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	3003	ATP	1	0
4	C	3003	ATP	1	0

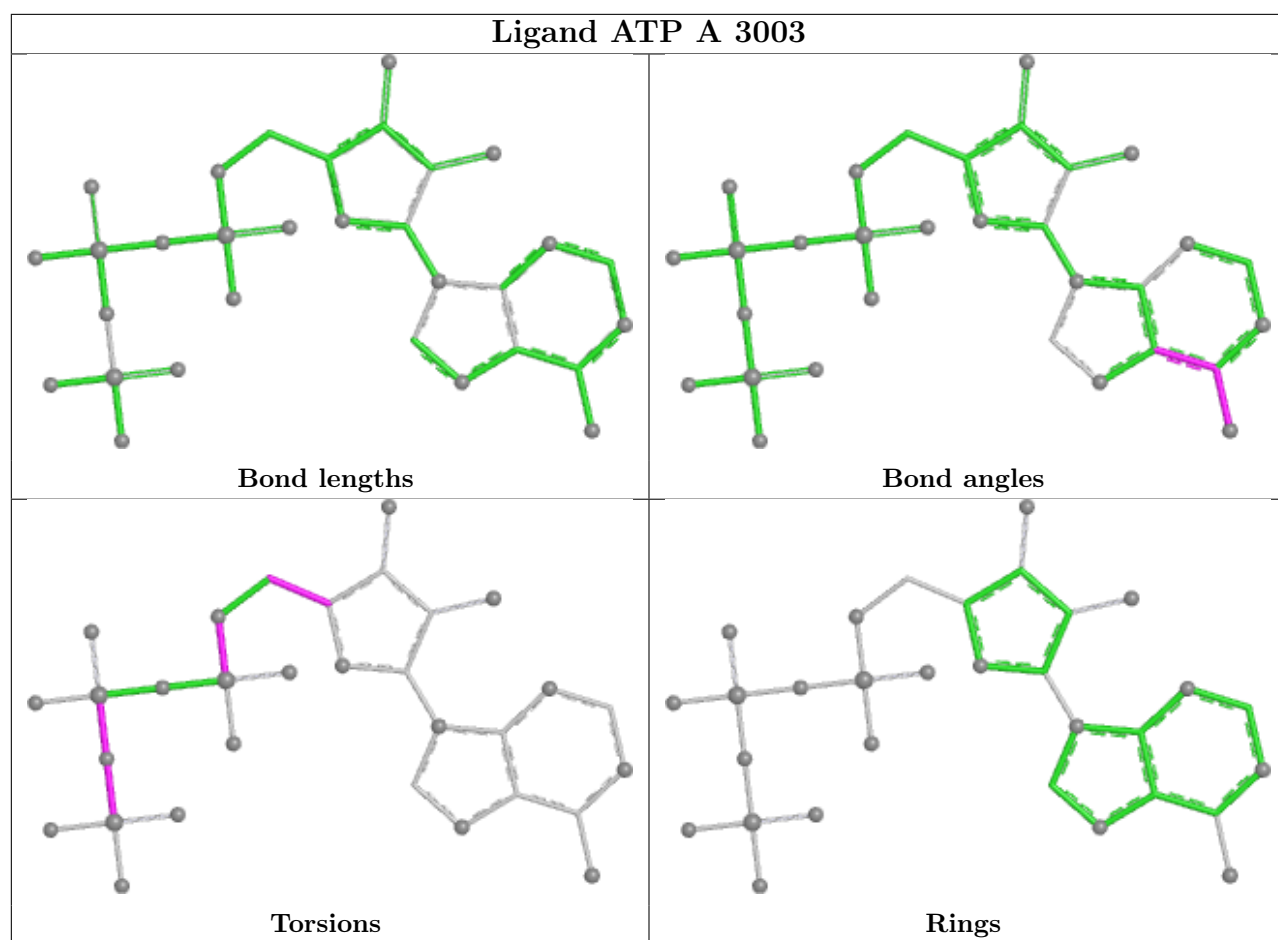
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

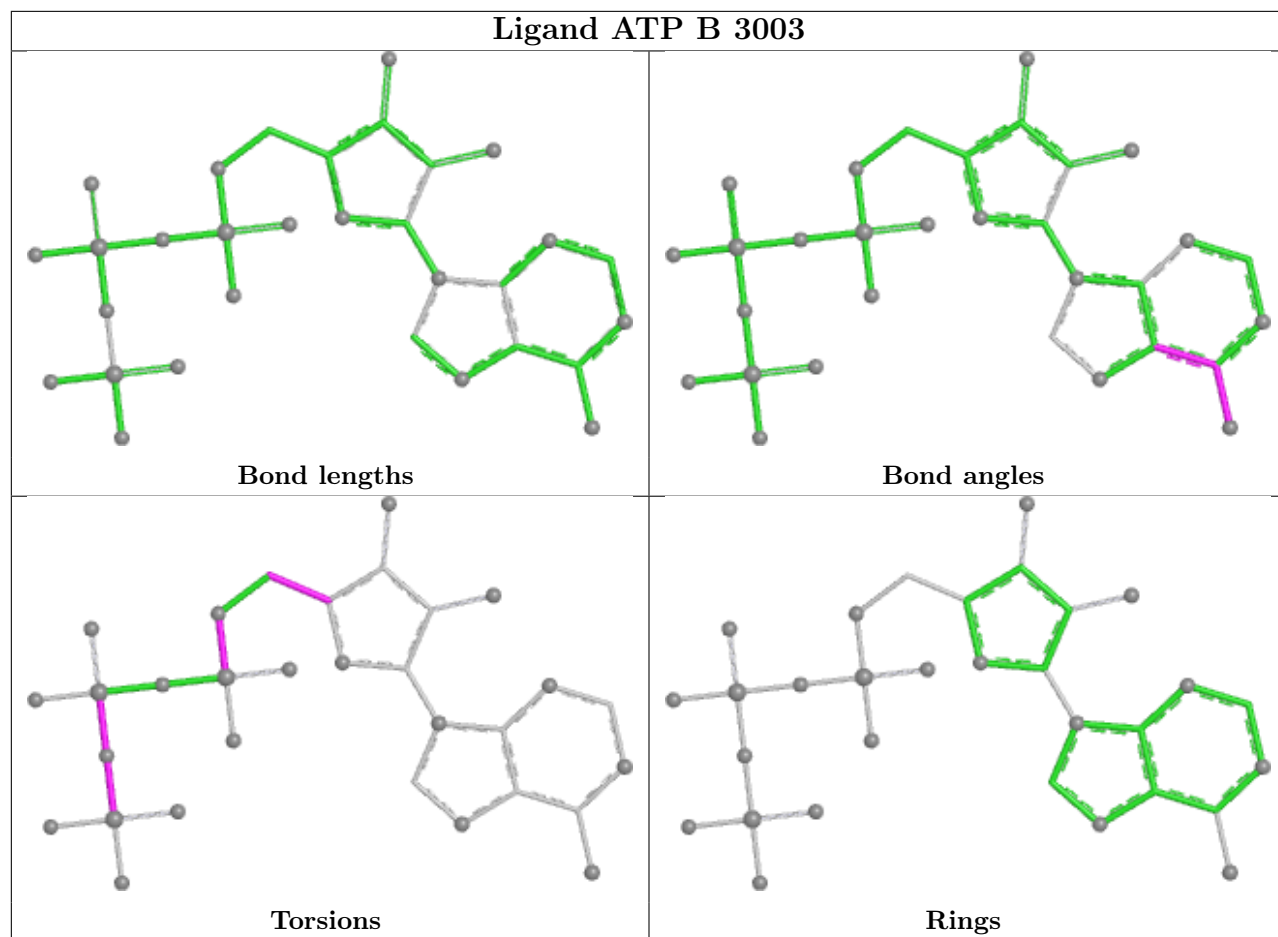


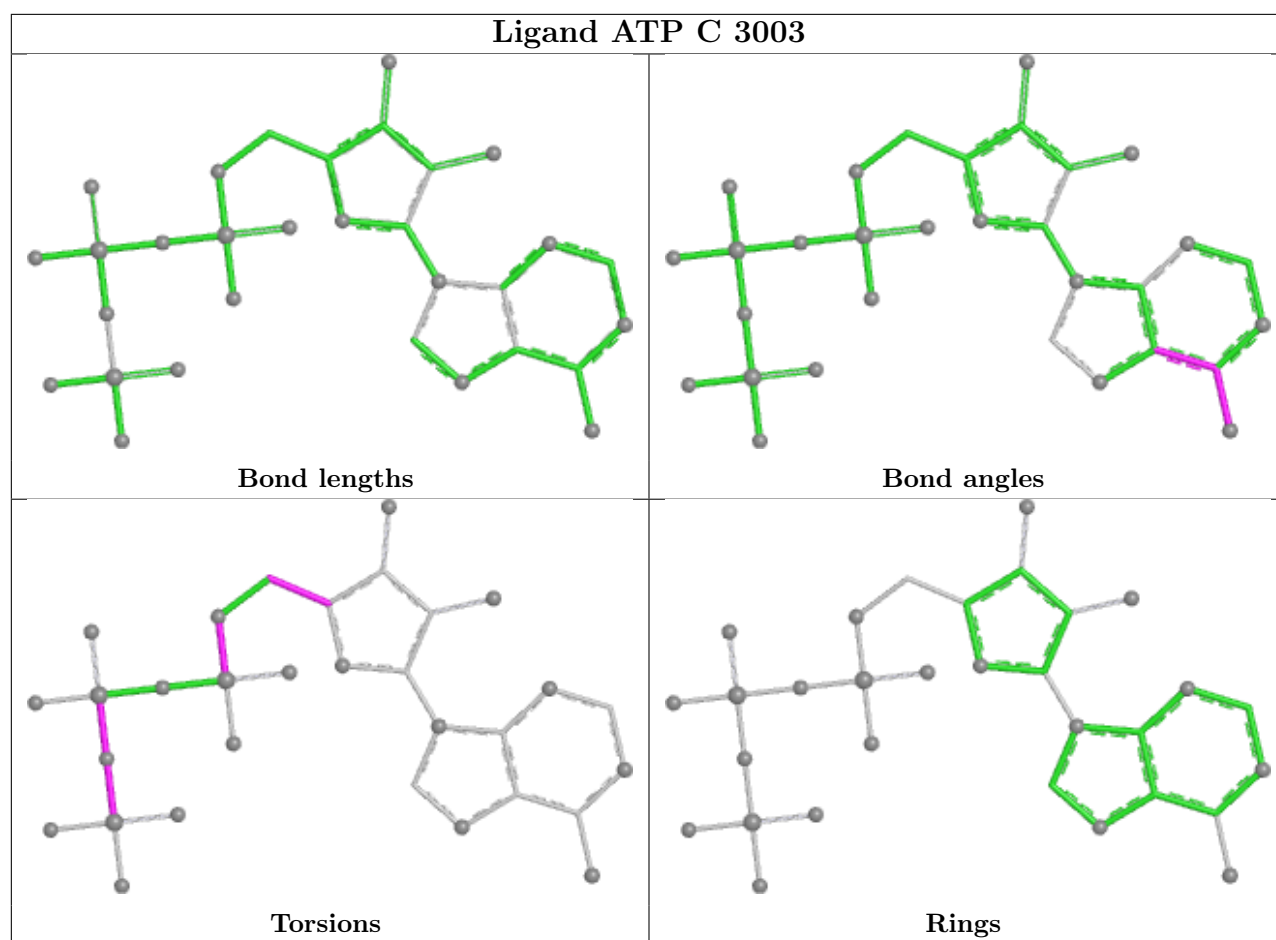


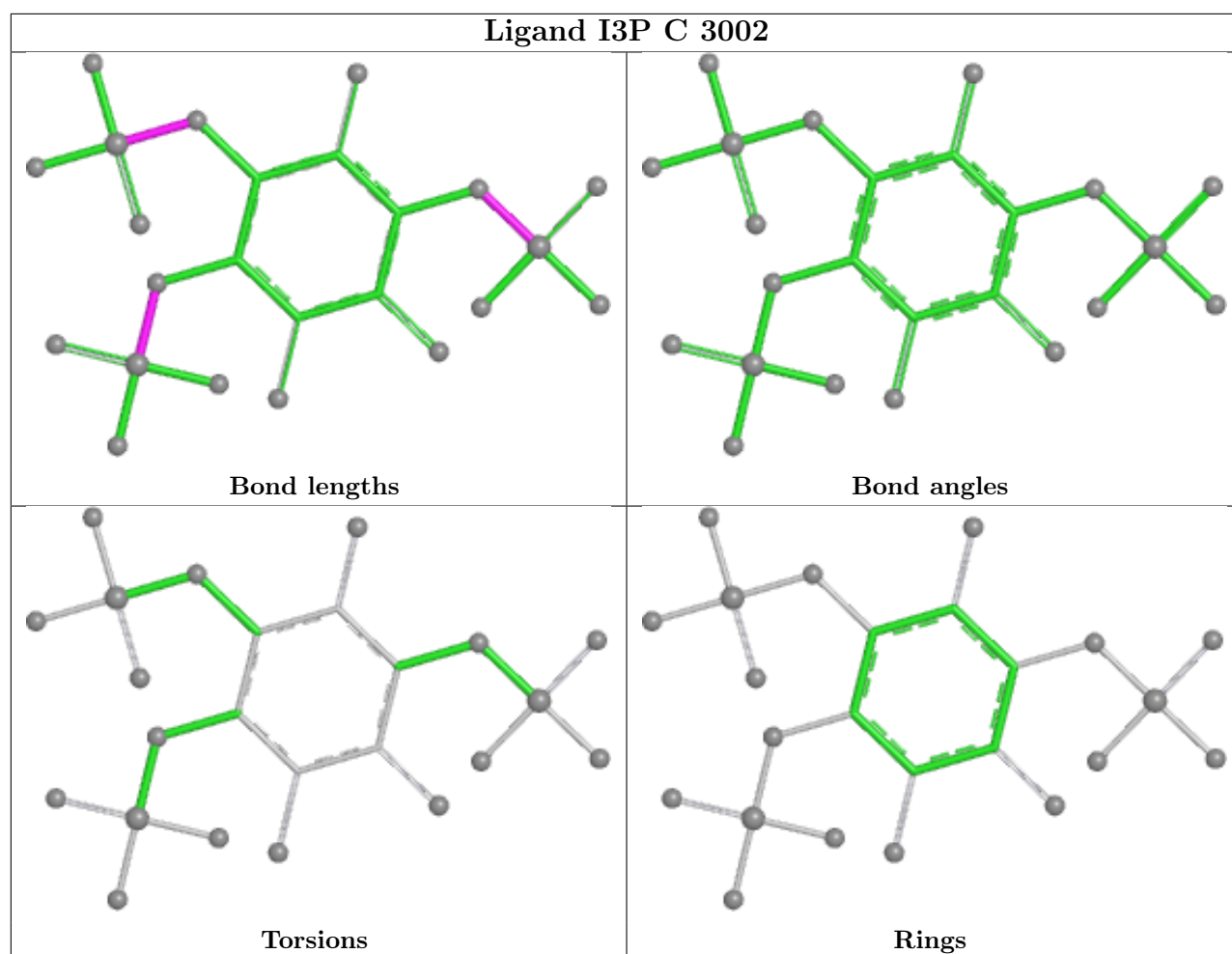












5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

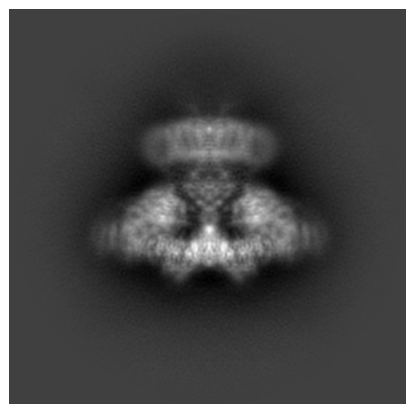
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-41352. These allow visual inspection of the internal detail of the map and identification of artifacts.

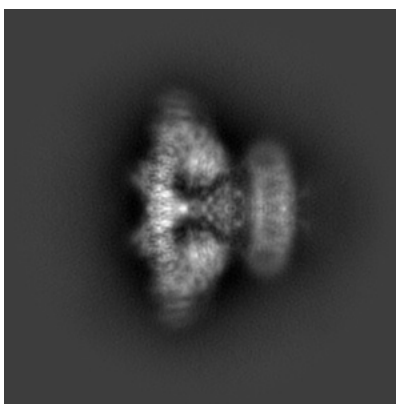
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

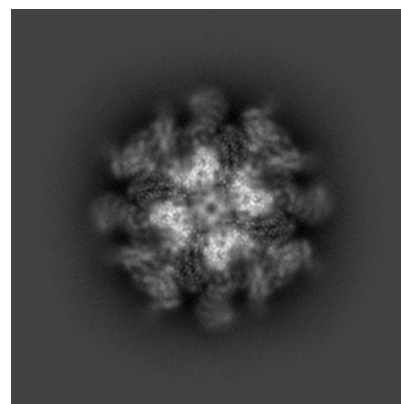
6.1.1 Primary map



X

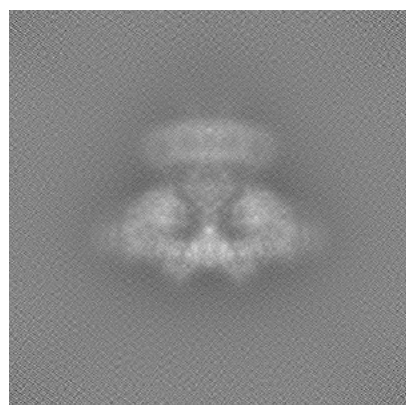


Y

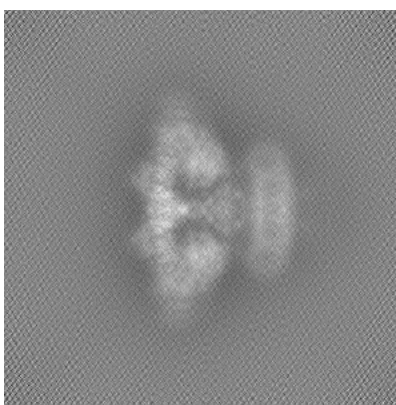


Z

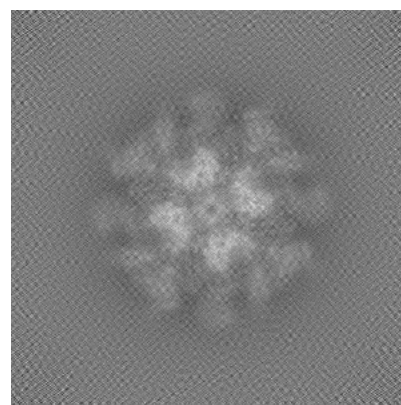
6.1.2 Raw map



X



Y

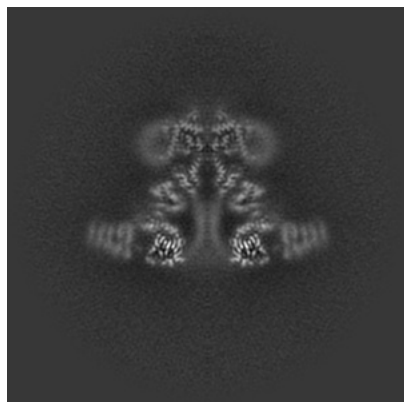


Z

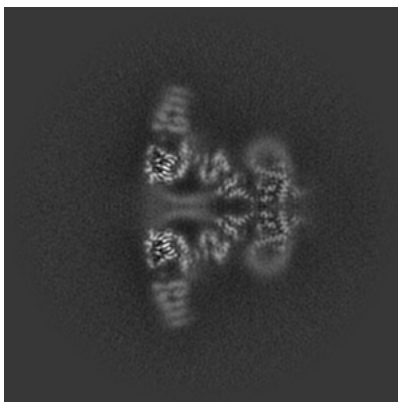
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

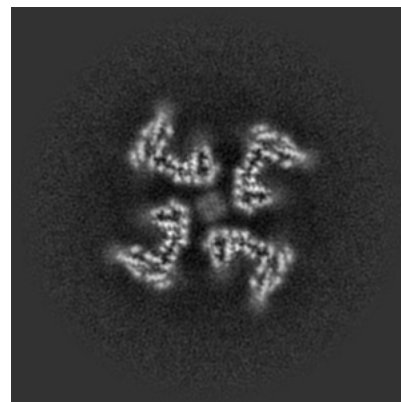
6.2.1 Primary map



X Index: 256

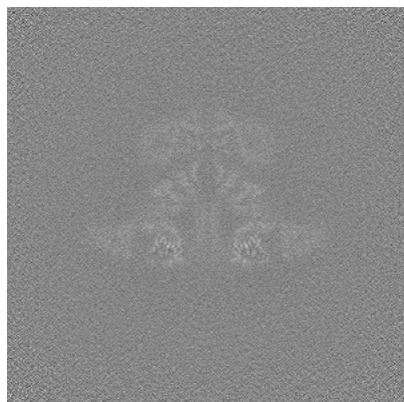


Y Index: 256

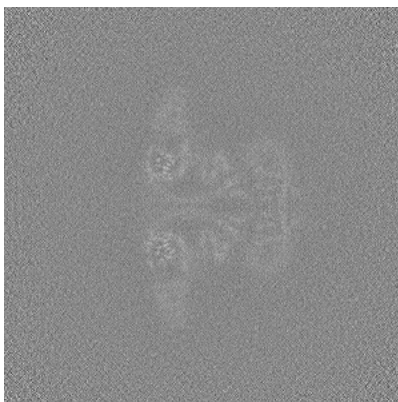


Z Index: 256

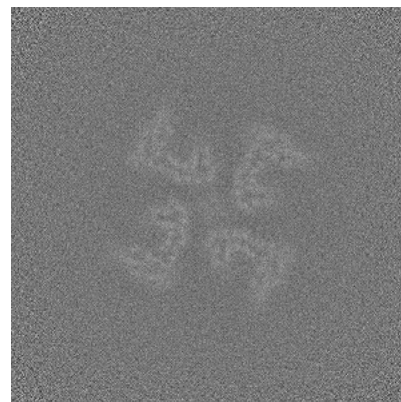
6.2.2 Raw map



X Index: 256



Y Index: 256

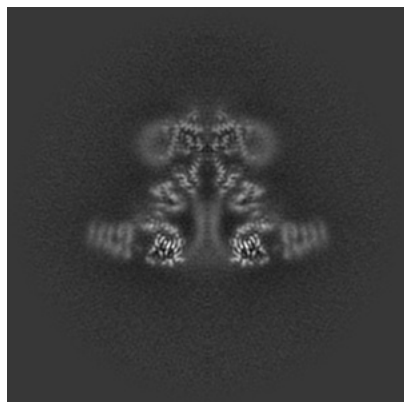


Z Index: 256

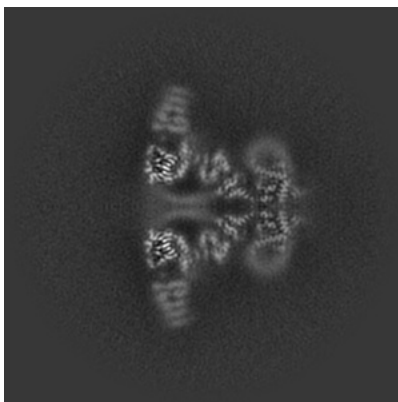
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

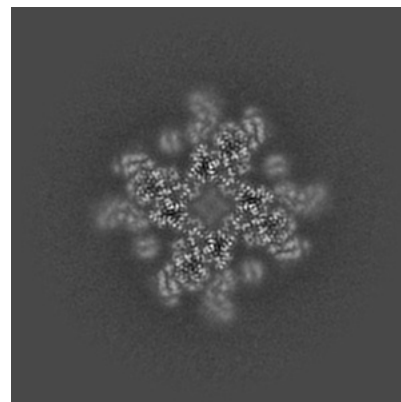
6.3.1 Primary map



X Index: 256

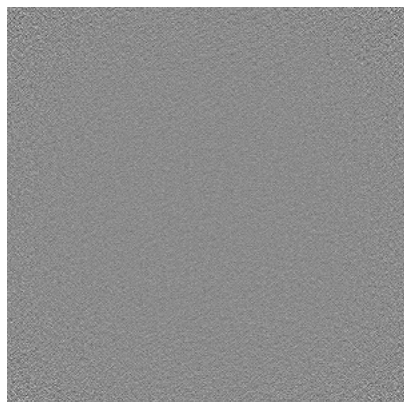


Y Index: 256

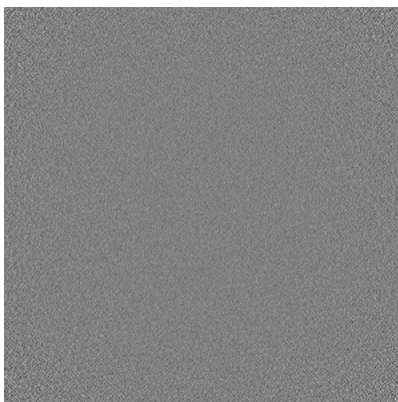


Z Index: 205

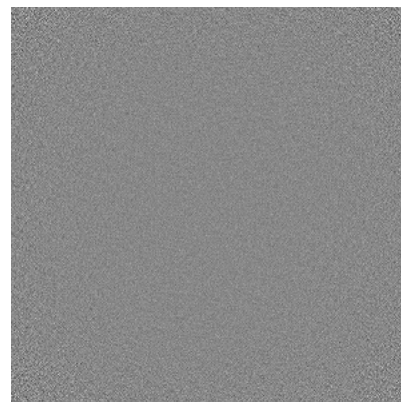
6.3.2 Raw map



X Index: 0



Y Index: 0

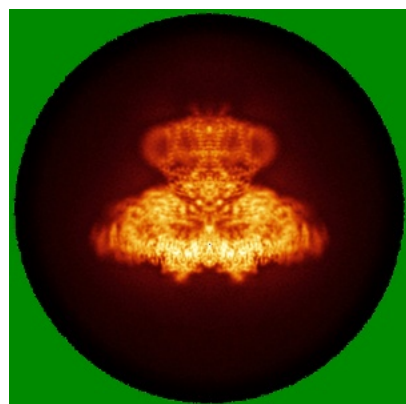


Z Index: 0

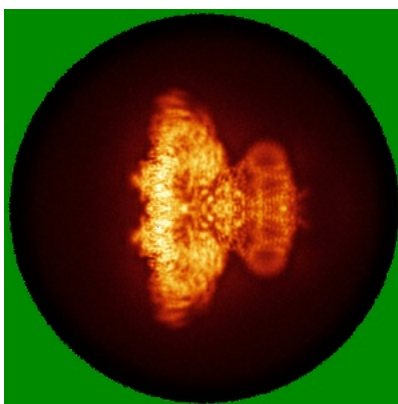
The images above show the largest variance slices of the map in three orthogonal directions.

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

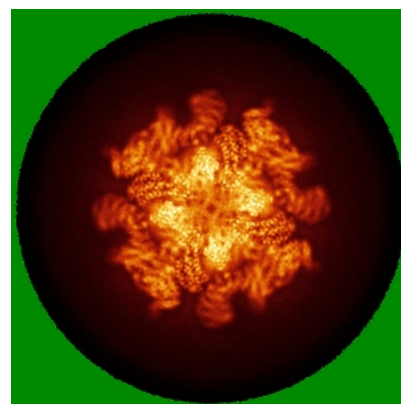
6.4.1 Primary map



X

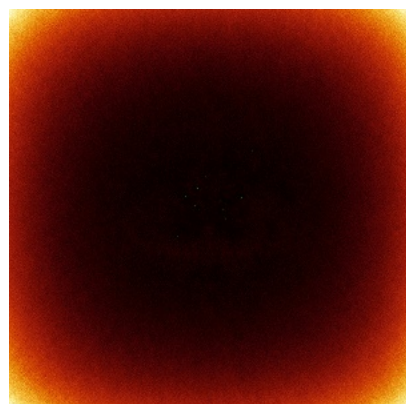


Y

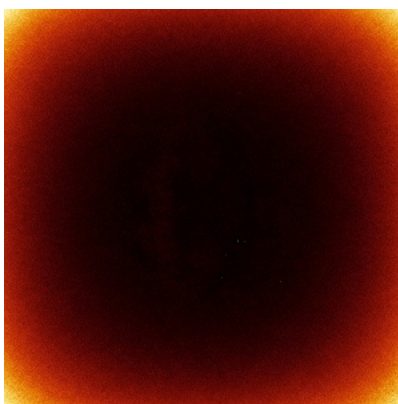


Z

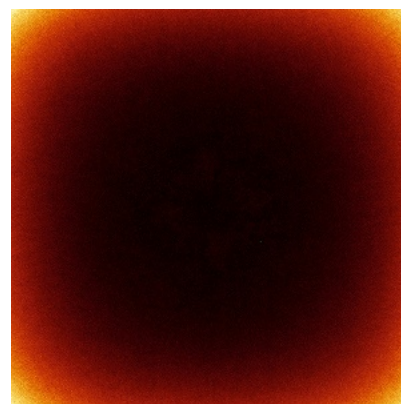
6.4.2 Raw map



X



Y

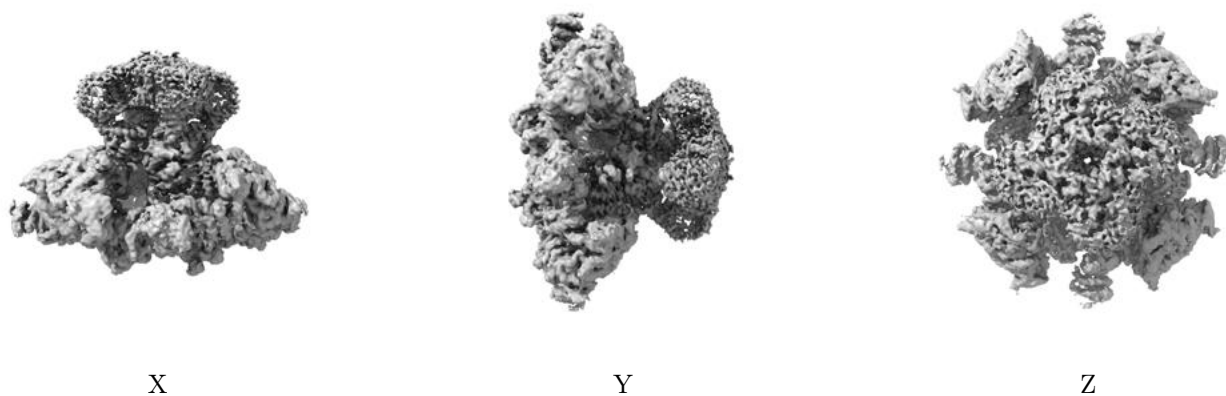


Z

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.

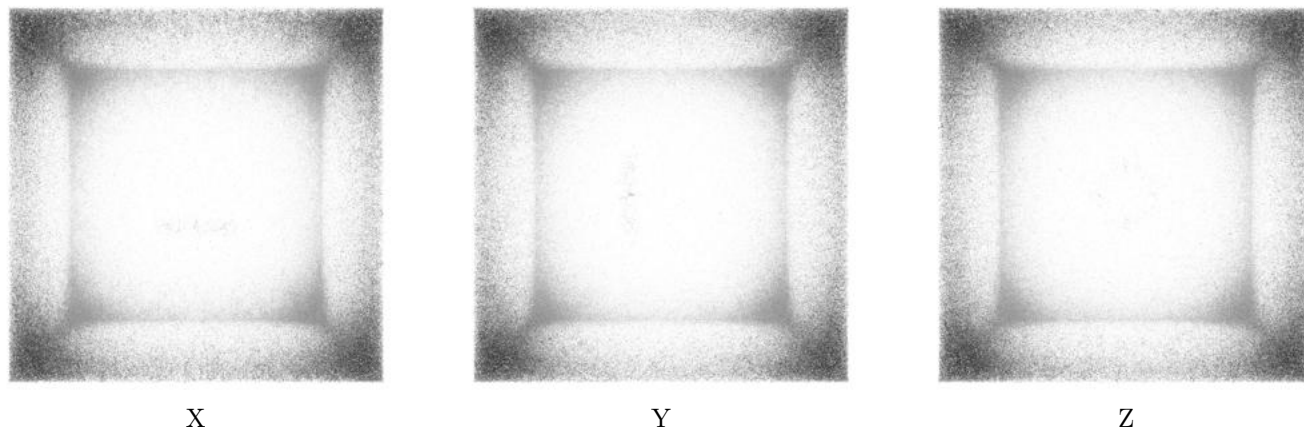
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.15. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

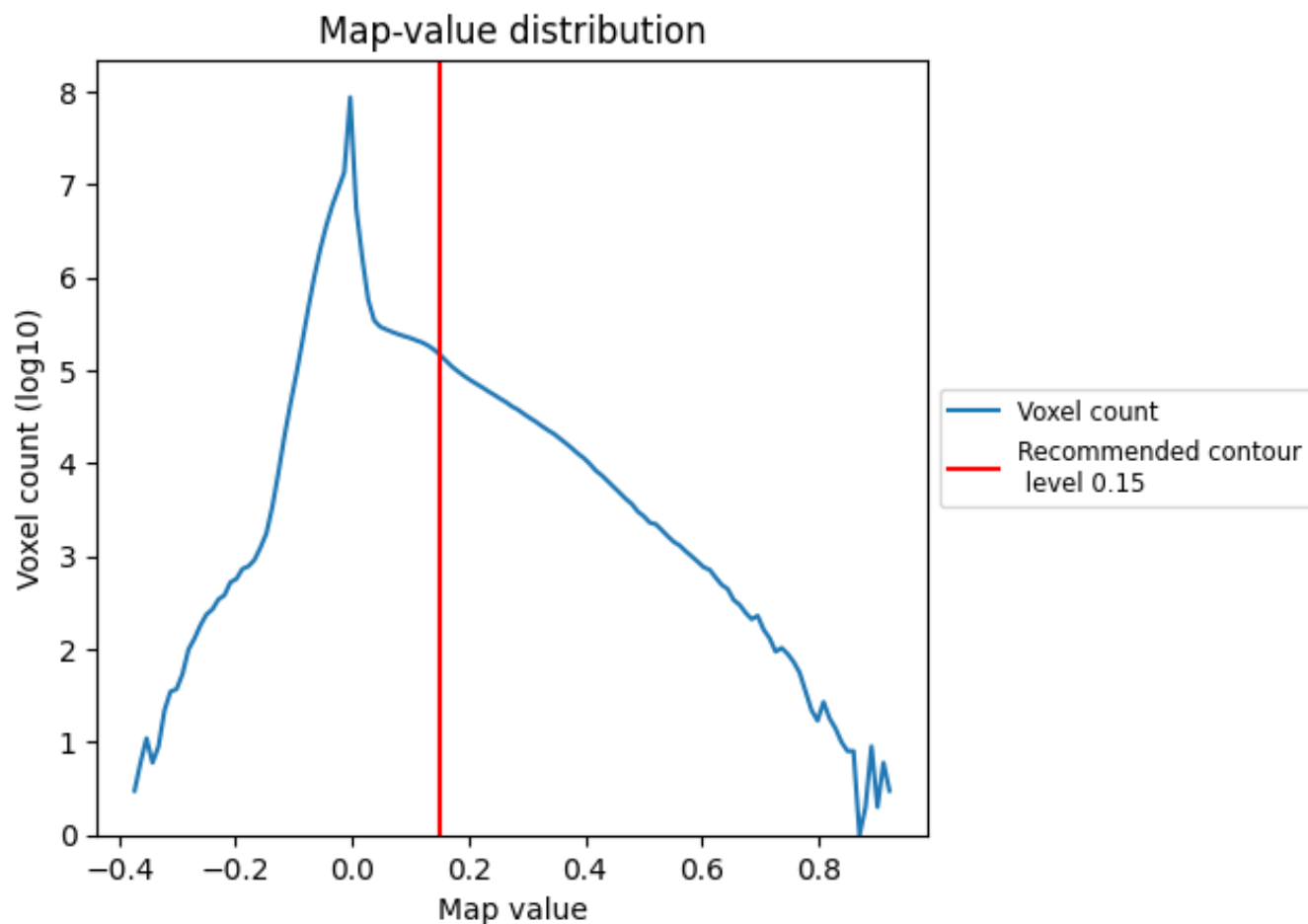
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

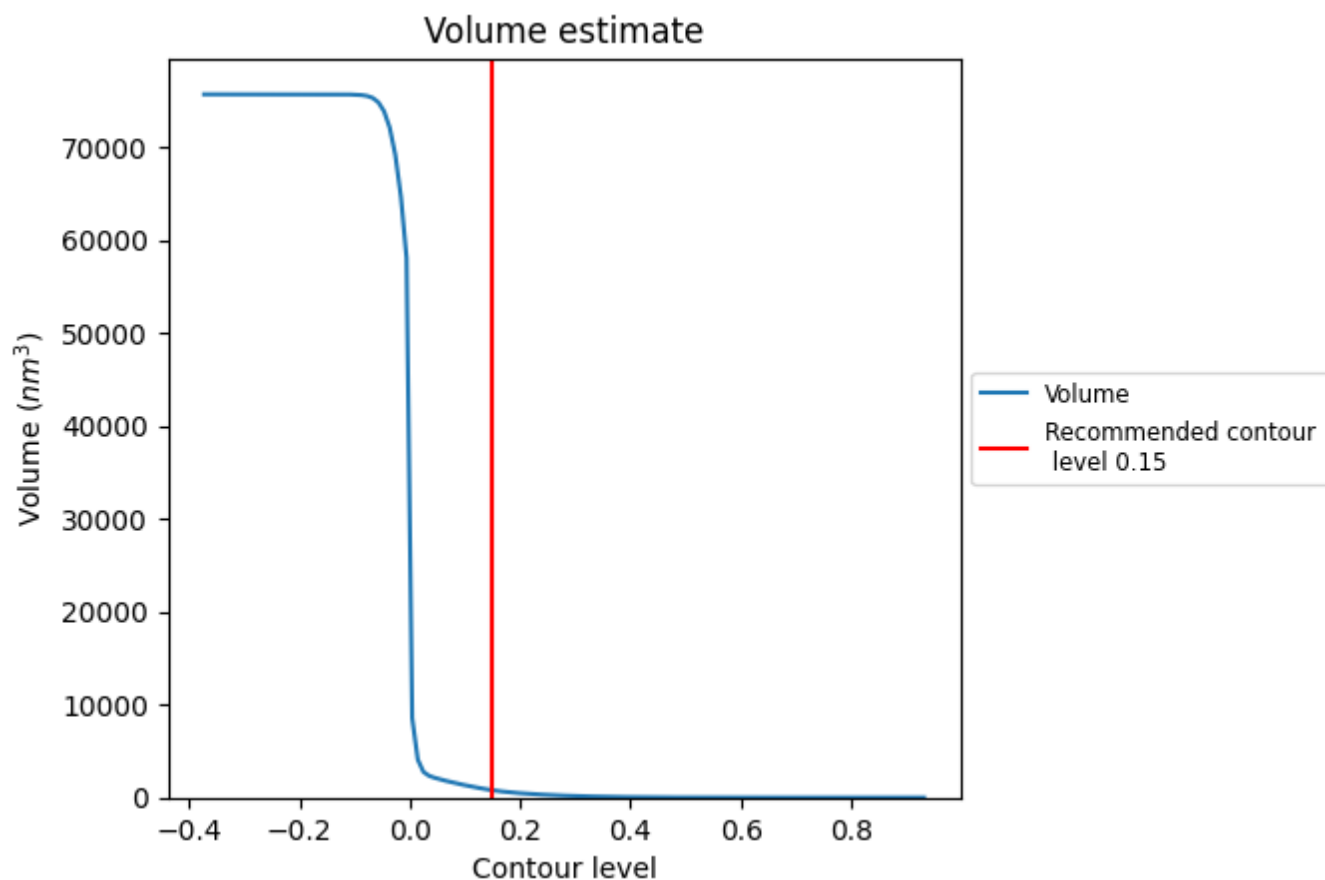
This section contains the results of statistical analysis of the map.

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.

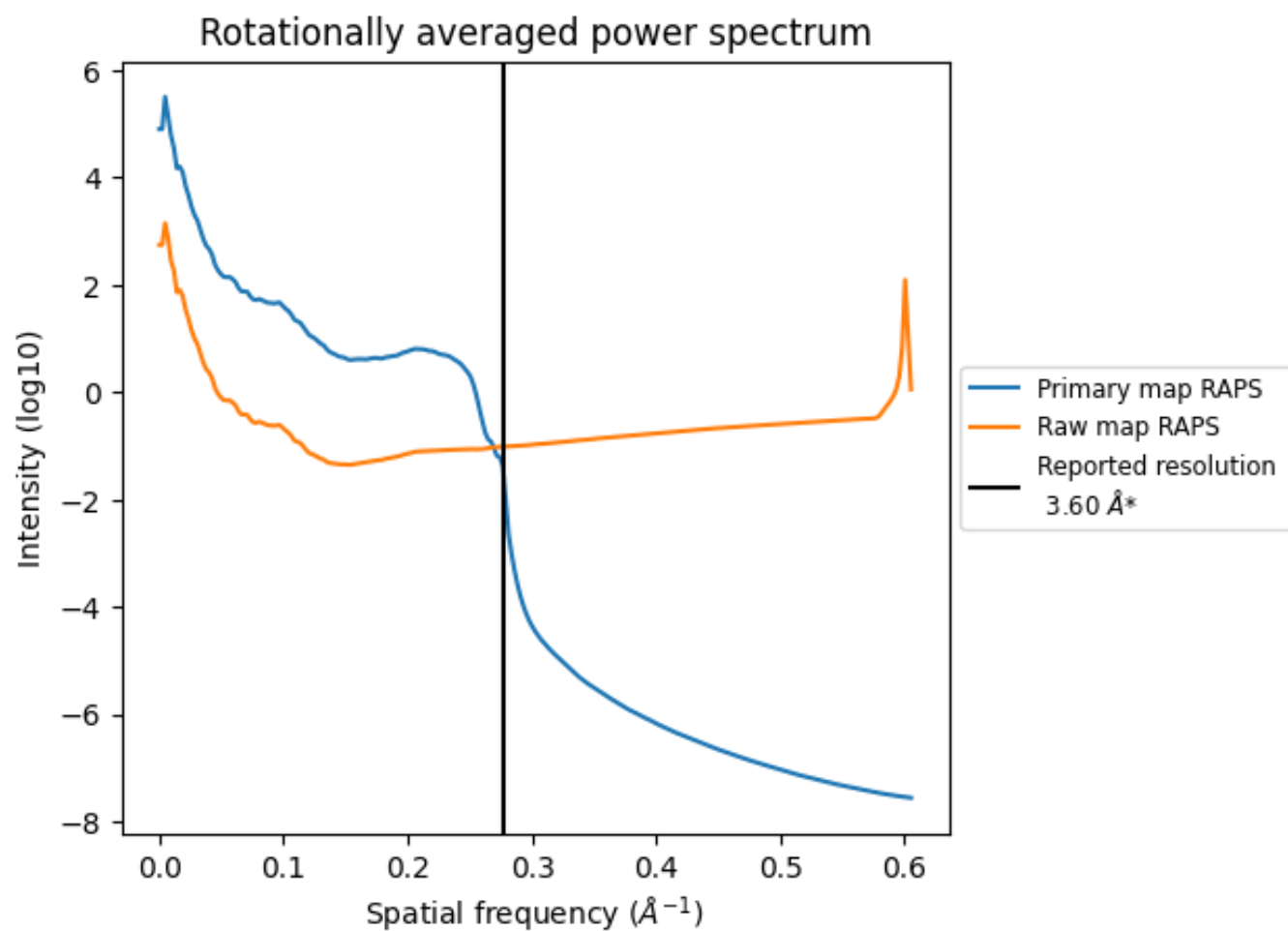
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 788 nm³; this corresponds to an approximate mass of 711 kDa.

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

7.3 Rotationally averaged power spectrum [i](#)

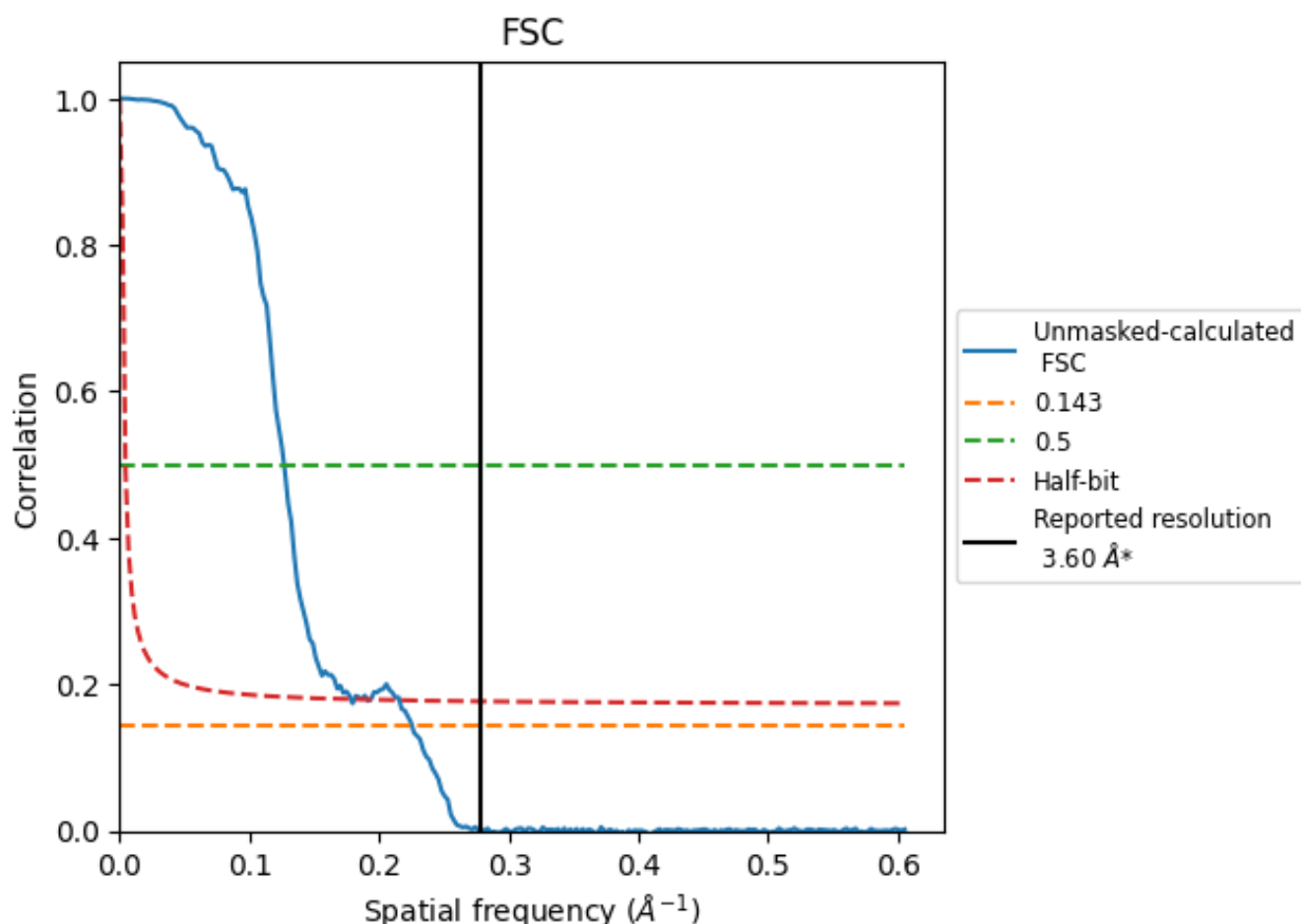


*Reported resolution corresponds to spatial frequency of 0.278 Å⁻¹

8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.278 Å⁻¹

8.2 Resolution estimates [i](#)

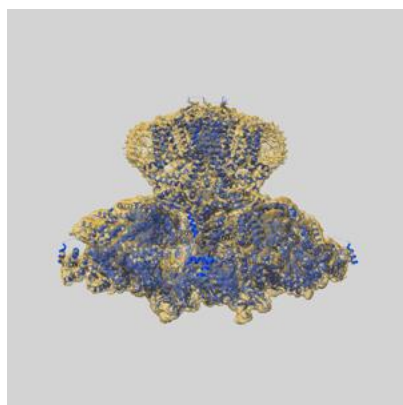
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.60	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	4.43	7.89	5.61

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 4.43 differs from the reported value 3.6 by more than 10 %

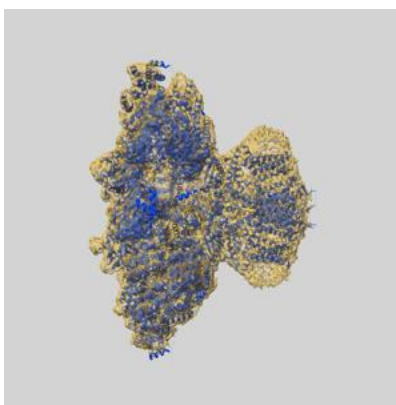
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-41352 and PDB model 8TKI. Per-residue inclusion information can be found in section [3](#) on page [6](#).

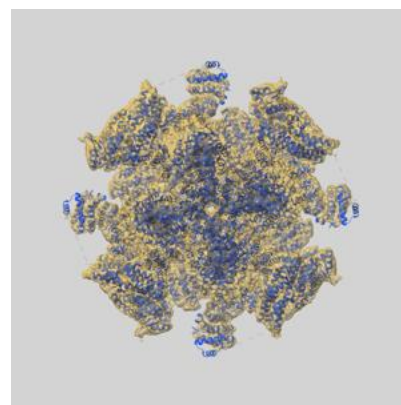
9.1 Map-model overlay [i](#)



X



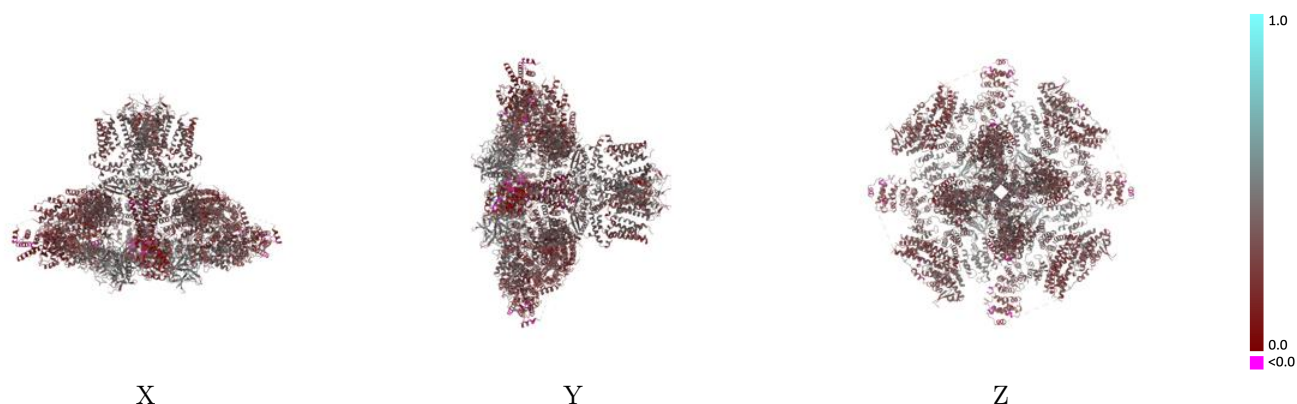
Y



Z

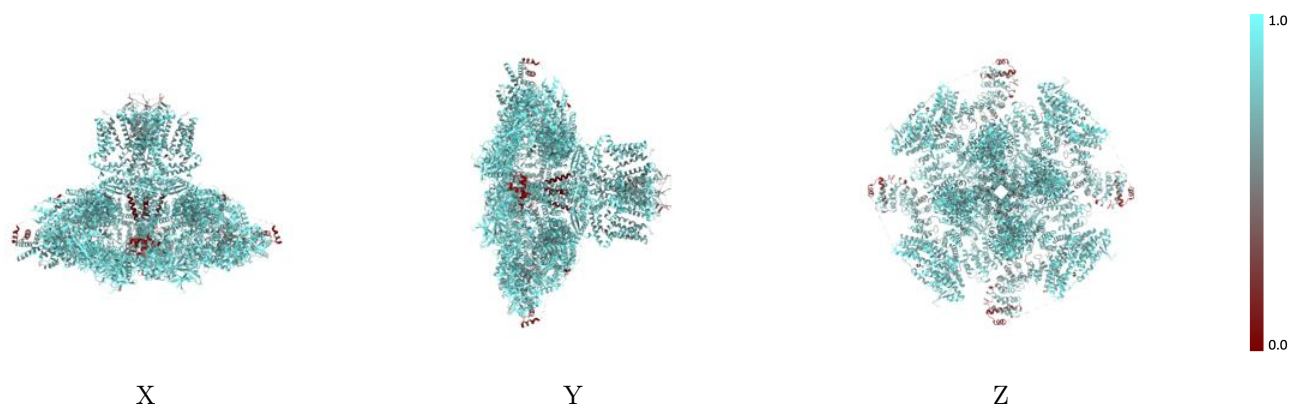
The images above show the 3D surface view of the map at the recommended contour level 0.15 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



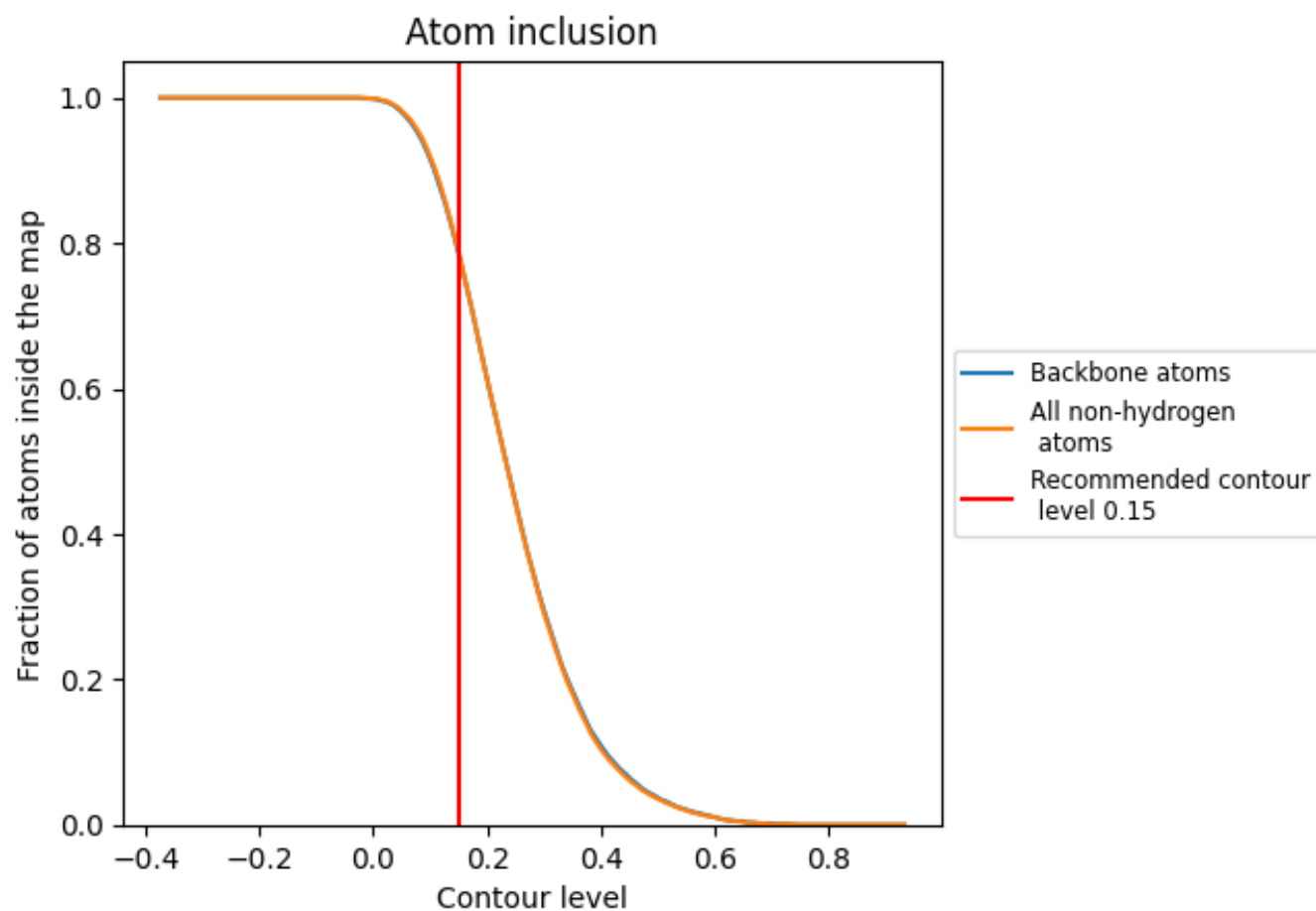
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.15).

9.4 Atom inclusion [i](#)



At the recommended contour level, 78% of all backbone atoms, 79% 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 (0.15) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	<div></div> 0.7880	<div></div> 0.3370
A	<div></div> 0.7970	<div></div> 0.3410
B	<div></div> 0.7900	<div></div> 0.3330
C	<div></div> 0.7970	<div></div> 0.3410
D	<div></div> 0.7890	<div></div> 0.3340

