



Full wwPDB EM Validation Report ⓘ

Mar 9, 2026 – 08:10 AM UTC

PDB ID : 6L7E / pdb_00006l7e
EMDB ID : EMD-0843
Title : Toxin Complex TcdA1-TcdB1-TccC2
Authors : Yan, Z.F.; Yang, G.W.
Deposited on : 2019-11-01
Resolution : 3.20 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

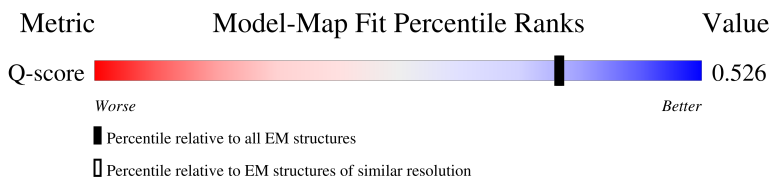
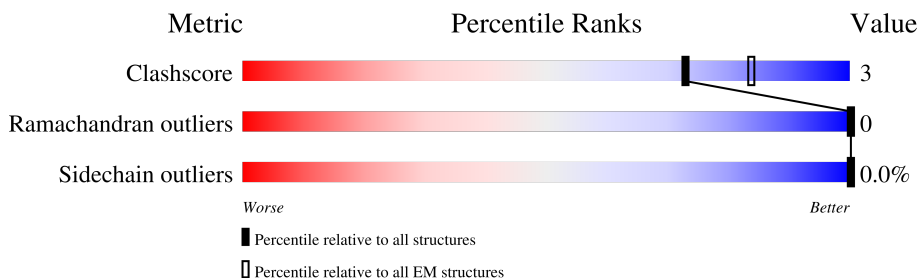
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.20 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	15020 (2.70 - 3.70)

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	2516	
1	B	2516	
1	C	2516	
1	D	2516	

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Mol	Chain	Length	Quality of chain
1	E	2516	 88% 10% •

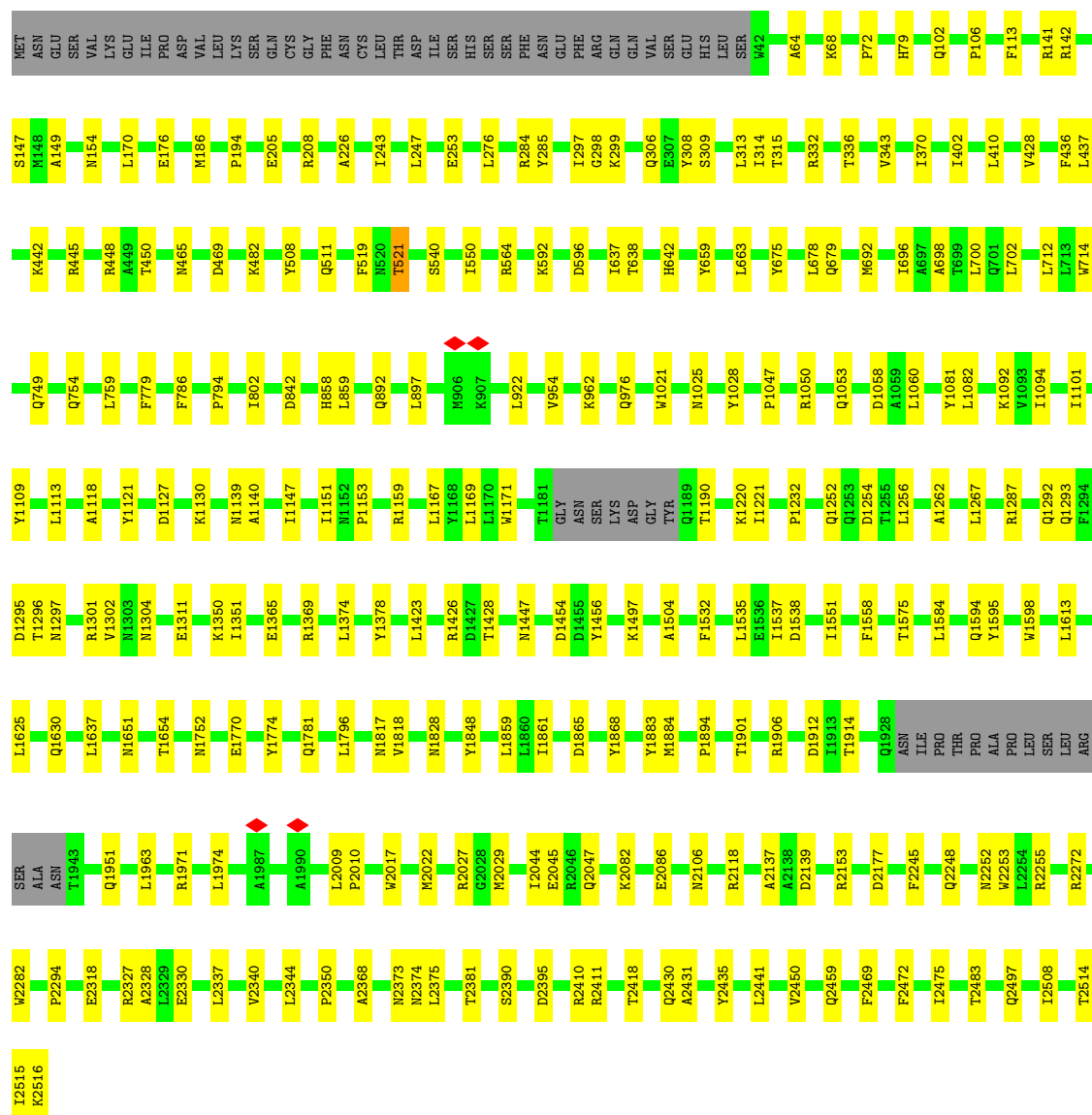
2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 97400 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

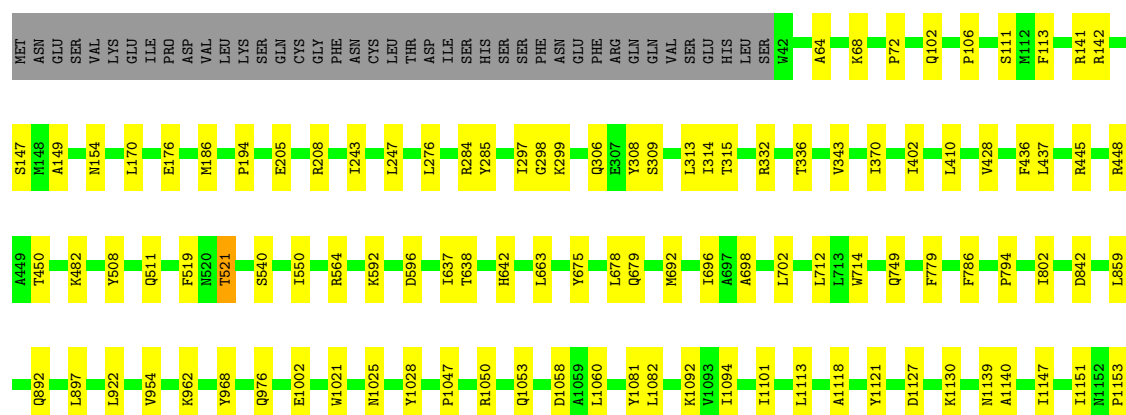
- Molecule 1 is a protein called TcdA1.

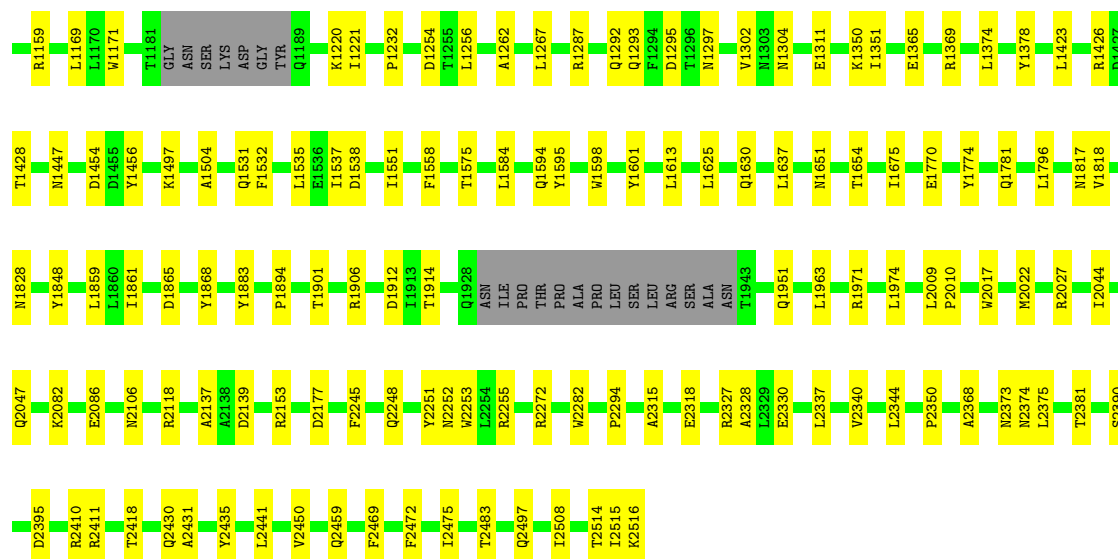
Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	2454	Total	C	N	O	S	0	0
			19480	12333	3311	3775	61		
1	B	2454	Total	C	N	O	S	0	0
			19480	12333	3311	3775	61		
1	C	2454	Total	C	N	O	S	0	0
			19480	12333	3311	3775	61		
1	D	2454	Total	C	N	O	S	0	0
			19480	12333	3311	3775	61		
1	E	2454	Total	C	N	O	S	0	0
			19480	12333	3311	3775	61		



• Molecule 1: TcdA1

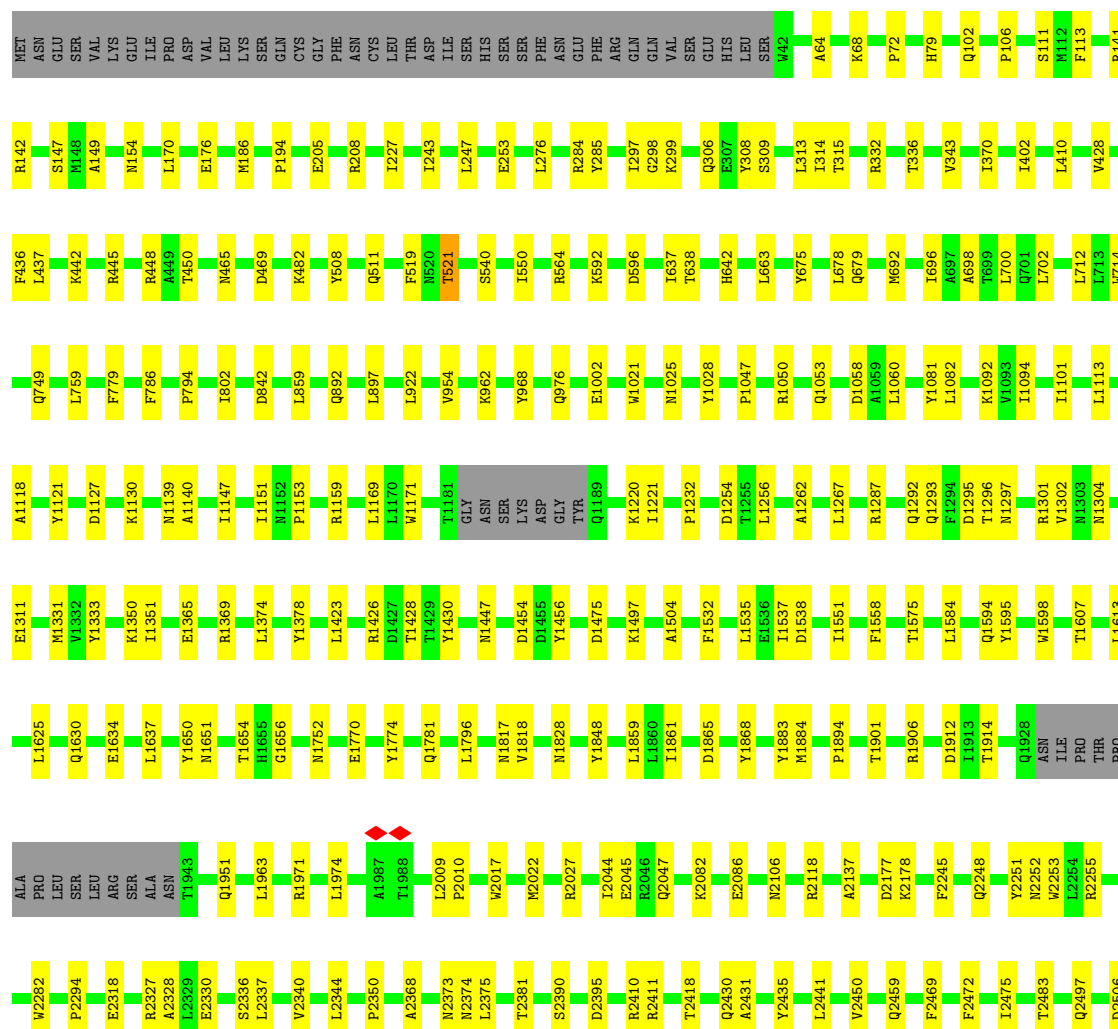
Chain C: 88% 9%





• Molecule 1: TcdA1

Chain D: 87% 10% .





Chain E: 88% 10%



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	124828	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI/PHILIPS CM300FEG/HE	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	50	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.393	Depositor
Minimum map value	-0.218	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.010	Depositor
Recommended contour level	0.005	Depositor
Map size ($\text{\AA}$)	508.44003, 508.44003, 508.44003	wwPDB
Map dimensions	380, 380, 380	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.338, 1.338, 1.338	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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	0.18	0/19899	0.46	3/27028 (0.0%)
1	B	0.18	0/19899	0.46	2/27028 (0.0%)
1	C	0.18	0/19899	0.46	2/27028 (0.0%)
1	D	0.18	0/19899	0.46	3/27028 (0.0%)
1	E	0.18	0/19899	0.46	2/27028 (0.0%)
All	All	0.18	0/99495	0.46	12/135140 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	5
1	B	0	5
1	C	0	5
1	D	0	5
1	E	0	5
All	All	0	25

There are no bond length outliers.

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	2381	THR	CA-C-N	5.16	131.39	121.54
1	A	2381	THR	C-N-CA	5.16	131.39	121.54
1	C	2381	THR	CA-C-N	5.16	131.39	121.54
1	C	2381	THR	C-N-CA	5.16	131.39	121.54
1	B	2381	THR	CA-C-N	5.13	131.34	121.54
1	B	2381	THR	C-N-CA	5.13	131.34	121.54
1	D	2381	THR	CA-C-N	5.13	131.34	121.54
1	D	2381	THR	C-N-CA	5.13	131.34	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	2381	THR	CA-C-N	5.12	131.31	121.54
1	E	2381	THR	C-N-CA	5.12	131.31	121.54
1	A	227	ILE	N-CA-C	-5.02	107.49	111.81
1	D	227	ILE	N-CA-C	-5.01	107.50	111.81

There are no chirality outliers.

All (25) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1598	TRP	Peptide
1	A	2106	ASN	Peptide
1	A	336	THR	Peptide
1	A	521	THR	Peptide
1	A	859	LEU	Peptide
1	B	1598	TRP	Peptide
1	B	2106	ASN	Peptide
1	B	336	THR	Peptide
1	B	521	THR	Peptide
1	B	859	LEU	Peptide
1	C	1598	TRP	Peptide
1	C	2106	ASN	Peptide
1	C	336	THR	Peptide
1	C	521	THR	Peptide
1	C	859	LEU	Peptide
1	D	1598	TRP	Peptide
1	D	2106	ASN	Peptide
1	D	336	THR	Peptide
1	D	521	THR	Peptide
1	D	859	LEU	Peptide
1	E	1598	TRP	Peptide
1	E	2106	ASN	Peptide
1	E	336	THR	Peptide
1	E	521	THR	Peptide
1	E	859	LEU	Peptide

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	19480	0	19047	142	0
1	B	19480	0	19047	142	0
1	C	19480	0	19047	136	0
1	D	19480	0	19047	146	0
1	E	19480	0	19047	143	0
All	All	97400	0	95235	638	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 3.

All (638) 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:714:TRP:HE1	1:A:794:PRO:HB2	1.62	0.65
1:B:714:TRP:HE1	1:B:794:PRO:HB2	1.62	0.64
1:D:714:TRP:HE1	1:D:794:PRO:HB2	1.62	0.63
1:E:714:TRP:HE1	1:E:794:PRO:HB2	1.62	0.63
1:C:714:TRP:HE1	1:C:794:PRO:HB2	1.62	0.63
1:E:176:GLU:HG3	1:E:954:VAL:HG13	1.82	0.62
1:A:176:GLU:HG3	1:A:954:VAL:HG13	1.82	0.62
1:B:176:GLU:HG3	1:B:954:VAL:HG13	1.82	0.61
1:A:1153:PRO:HB3	1:A:1171:TRP:HB2	1.83	0.61
1:B:1118:ALA:HB2	1:E:2137:ALA:HB2	1.83	0.61
1:A:2137:ALA:HB2	1:C:1118:ALA:HB2	1.83	0.61
1:C:1153:PRO:HB3	1:C:1171:TRP:HB2	1.83	0.61
1:C:176:GLU:HG3	1:C:954:VAL:HG13	1.82	0.61
1:D:176:GLU:HG3	1:D:954:VAL:HG13	1.82	0.60
1:B:2009:LEU:HD12	1:B:2010:PRO:HD2	1.84	0.60
1:B:1153:PRO:HB3	1:B:1171:TRP:HB2	1.83	0.60
1:B:1220:LYS:HE2	1:B:1267:LEU:HB3	1.82	0.60
1:C:564:ARG:NH1	1:D:842:ASP:OD1	2.35	0.60
1:C:1220:LYS:HE2	1:C:1267:LEU:HB3	1.83	0.60
1:C:2009:LEU:HD12	1:C:2010:PRO:HD2	1.83	0.60
1:D:1153:PRO:HB3	1:D:1171:TRP:HB2	1.83	0.60
1:D:1220:LYS:HE2	1:D:1267:LEU:HB3	1.83	0.60
1:E:1153:PRO:HB3	1:E:1171:TRP:HB2	1.83	0.60
1:D:2431:ALA:HB3	1:D:2450:VAL:HB	1.84	0.59
1:E:2431:ALA:HB3	1:E:2450:VAL:HB	1.84	0.59
1:C:2431:ALA:HB3	1:C:2450:VAL:HB	1.84	0.59
1:E:1151:ILE:HG22	1:E:1153:PRO:HD3	1.84	0.59
1:E:1220:LYS:HE2	1:E:1267:LEU:HB3	1.83	0.59
1:A:1151:ILE:HG22	1:A:1153:PRO:HD3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:147:SER:HA	1:B:1906:ARG:HE	1.68	0.59
1:C:1151:ILE:HG22	1:C:1153:PRO:HD3	1.84	0.59
1:D:1151:ILE:HG22	1:D:1153:PRO:HD3	1.84	0.59
1:A:1220:LYS:HE2	1:A:1267:LEU:HB3	1.83	0.59
1:B:284:ARG:HD3	1:B:962:LYS:HB3	1.85	0.59
1:B:2431:ALA:HB3	1:B:2450:VAL:HB	1.84	0.59
1:C:2137:ALA:HB2	1:E:1118:ALA:HB2	1.85	0.59
1:D:2009:LEU:HD12	1:D:2010:PRO:HD2	1.84	0.59
1:A:1118:ALA:HB2	1:D:2137:ALA:HB2	1.85	0.59
1:E:2009:LEU:HD12	1:E:2010:PRO:HD2	1.83	0.59
1:E:147:SER:HA	1:E:1906:ARG:HE	1.68	0.59
1:A:2431:ALA:HB3	1:A:2450:VAL:HB	1.84	0.59
1:D:284:ARG:HD3	1:D:962:LYS:HB3	1.85	0.59
1:A:2009:LEU:HD12	1:A:2010:PRO:HD2	1.84	0.59
1:C:284:ARG:HD3	1:C:962:LYS:HB3	1.85	0.59
1:D:147:SER:HA	1:D:1906:ARG:HE	1.68	0.59
1:E:284:ARG:HD3	1:E:962:LYS:HB3	1.85	0.59
1:B:1151:ILE:HG22	1:B:1153:PRO:HD3	1.84	0.58
1:B:1159:ARG:NH2	1:B:1295:ASP:OD2	2.36	0.58
1:A:147:SER:HA	1:A:1906:ARG:HE	1.68	0.58
1:A:284:ARG:HD3	1:A:962:LYS:HB3	1.85	0.58
1:E:1159:ARG:NH2	1:E:1295:ASP:OD2	2.36	0.58
1:B:299:LYS:HG3	1:B:309:SER:HB2	1.85	0.58
1:A:1159:ARG:NH2	1:A:1295:ASP:OD2	2.36	0.58
1:D:564:ARG:NH1	1:E:842:ASP:OD1	2.37	0.58
1:E:299:LYS:HG3	1:E:309:SER:HB2	1.85	0.58
1:B:976:GLN:OE1	1:C:1971:ARG:NH1	2.37	0.58
1:C:976:GLN:OE1	1:D:1971:ARG:NH1	2.36	0.58
1:A:297:ILE:HA	1:A:314:ILE:HD12	1.86	0.58
1:A:976:GLN:OE1	1:B:1971:ARG:NH1	2.37	0.58
1:B:564:ARG:NH1	1:C:842:ASP:OD1	2.37	0.58
1:B:1254:ASP:OD1	1:B:1297:ASN:ND2	2.37	0.58
1:A:299:LYS:HG3	1:A:309:SER:HB2	1.85	0.57
1:C:1254:ASP:OD1	1:C:1297:ASN:ND2	2.37	0.57
1:E:1254:ASP:OD1	1:E:1297:ASN:ND2	2.37	0.57
1:C:299:LYS:HG3	1:C:309:SER:HB2	1.85	0.57
1:D:299:LYS:HG3	1:D:309:SER:HB2	1.85	0.57
1:D:976:GLN:OE1	1:E:1971:ARG:NH1	2.37	0.57
1:D:1254:ASP:OD1	1:D:1297:ASN:ND2	2.37	0.57
1:A:842:ASP:OD1	1:E:564:ARG:NH1	2.38	0.57
1:A:1254:ASP:OD1	1:A:1297:ASN:ND2	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1351:ILE:HB	1:D:1537:ILE:HB	1.87	0.57
1:C:147:SER:HA	1:C:1906:ARG:HE	1.67	0.57
1:C:297:ILE:HA	1:C:314:ILE:HD12	1.86	0.56
1:A:564:ARG:NH1	1:B:842:ASP:OD1	2.38	0.56
1:A:1351:ILE:HB	1:A:1537:ILE:HB	1.87	0.56
1:E:1351:ILE:HB	1:E:1537:ILE:HB	1.87	0.56
1:B:297:ILE:HA	1:B:314:ILE:HD12	1.86	0.56
1:D:1147:ILE:HD13	1:D:1169:LEU:HD11	1.87	0.56
1:E:1147:ILE:HD13	1:E:1169:LEU:HD11	1.87	0.56
1:C:1147:ILE:HD13	1:C:1169:LEU:HD11	1.87	0.56
1:D:1262:ALA:O	1:D:1287:ARG:NH1	2.38	0.56
1:A:72:PRO:HB2	1:A:1894:PRO:HB3	1.88	0.56
1:D:297:ILE:HA	1:D:314:ILE:HD12	1.86	0.56
1:E:297:ILE:HA	1:E:314:ILE:HD12	1.86	0.56
1:B:1147:ILE:HD13	1:B:1169:LEU:HD11	1.88	0.56
1:B:1351:ILE:HB	1:B:1537:ILE:HB	1.87	0.56
1:E:1774:TYR:HH	1:E:1848:TYR:HH	1.50	0.56
1:A:1147:ILE:HD13	1:A:1169:LEU:HD11	1.87	0.56
1:B:194:PRO:O	1:B:285:TYR:OH	2.22	0.56
1:A:1774:TYR:HH	1:A:1848:TYR:HH	1.53	0.55
1:C:1159:ARG:NH2	1:C:1295:ASP:OD2	2.36	0.55
1:C:2441:LEU:HD22	1:C:2475:ILE:HD11	1.89	0.55
1:B:2137:ALA:HB2	1:D:1118:ALA:HB2	1.89	0.55
1:B:2441:LEU:HD22	1:B:2475:ILE:HD11	1.89	0.55
1:D:1159:ARG:NH2	1:D:1295:ASP:OD2	2.36	0.55
1:B:1113:LEU:HD13	1:B:1121:TYR:HE1	1.71	0.55
1:C:72:PRO:HB2	1:C:1894:PRO:HB3	1.88	0.55
1:C:1351:ILE:HB	1:C:1537:ILE:HB	1.87	0.55
1:B:72:PRO:HB2	1:B:1894:PRO:HB3	1.88	0.55
1:B:102:GLN:HE22	1:B:1901:THR:HG23	1.72	0.55
1:D:72:PRO:HB2	1:D:1894:PRO:HB3	1.88	0.55
1:A:1113:LEU:HD13	1:A:1121:TYR:HE1	1.71	0.55
1:E:72:PRO:HB2	1:E:1894:PRO:HB3	1.88	0.55
1:A:2441:LEU:HD22	1:A:2475:ILE:HD11	1.89	0.54
1:D:1113:LEU:HD13	1:D:1121:TYR:HE1	1.71	0.54
1:A:102:GLN:HE22	1:A:1901:THR:HG23	1.72	0.54
1:D:102:GLN:HE22	1:D:1901:THR:HG23	1.72	0.54
1:E:675:TYR:O	1:E:679:GLN:NE2	2.40	0.54
1:E:1262:ALA:O	1:E:1287:ARG:NH1	2.38	0.54
1:A:2255:ARG:NH2	1:E:702:LEU:O	2.40	0.54
1:E:1113:LEU:HD13	1:E:1121:TYR:HE1	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:102:GLN:HE22	1:C:1901:THR:HG23	1.72	0.54
1:E:102:GLN:HE22	1:E:1901:THR:HG23	1.72	0.54
1:A:702:LEU:O	1:B:2255:ARG:NH2	2.41	0.54
1:C:1113:LEU:HD13	1:C:1121:TYR:HE1	1.71	0.54
1:E:2441:LEU:HD22	1:E:2475:ILE:HD11	1.89	0.54
1:A:2047:GLN:NE2	1:A:2252:ASN:OD1	2.41	0.54
1:A:2374:ASN:OD1	1:A:2390:SER:OG	2.26	0.54
1:D:675:TYR:O	1:D:679:GLN:NE2	2.40	0.54
1:D:702:LEU:O	1:E:2255:ARG:NH2	2.41	0.54
1:D:2441:LEU:HD22	1:D:2475:ILE:HD11	1.89	0.54
1:E:2430:GLN:OE1	1:E:2497:GLN:NE2	2.41	0.54
1:A:2177:ASP:OD1	1:B:2118:ARG:NH2	2.40	0.54
1:C:2047:GLN:NE2	1:C:2252:ASN:OD1	2.41	0.54
1:D:2374:ASN:OD1	1:D:2390:SER:OG	2.26	0.54
1:E:2047:GLN:NE2	1:E:2252:ASN:OD1	2.41	0.54
1:D:243:ILE:HA	1:D:247:LEU:HD23	1.90	0.53
1:D:2047:GLN:NE2	1:D:2252:ASN:OD1	2.41	0.53
1:E:2374:ASN:OD1	1:E:2390:SER:OG	2.26	0.53
1:A:2430:GLN:OE1	1:A:2497:GLN:NE2	2.41	0.53
1:C:2430:GLN:OE1	1:C:2497:GLN:NE2	2.41	0.53
1:D:2430:GLN:OE1	1:D:2497:GLN:NE2	2.41	0.53
1:B:592:LYS:NZ	1:B:596:ASP:OD1	2.42	0.53
1:B:2430:GLN:OE1	1:B:2497:GLN:NE2	2.41	0.53
1:C:306:GLN:HG3	1:C:315:THR:HG22	1.91	0.53
1:A:1595:TYR:HB3	1:A:1637:LEU:HD22	1.91	0.53
1:D:678:LEU:HD11	1:D:692:MET:HG2	1.91	0.53
1:A:370:ILE:HG12	1:A:410:LEU:HG	1.90	0.53
1:A:592:LYS:NZ	1:A:596:ASP:OD1	2.42	0.53
1:C:702:LEU:O	1:D:2255:ARG:NH2	2.42	0.53
1:D:194:PRO:O	1:D:285:TYR:OH	2.22	0.53
1:E:194:PRO:O	1:E:285:TYR:OH	2.22	0.53
1:E:243:ILE:HA	1:E:247:LEU:HD23	1.91	0.53
1:C:592:LYS:NZ	1:C:596:ASP:OD1	2.42	0.53
1:E:306:GLN:HG3	1:E:315:THR:HG22	1.91	0.53
1:E:1595:TYR:HB3	1:E:1637:LEU:HD22	1.91	0.53
1:A:675:TYR:O	1:A:679:GLN:NE2	2.40	0.53
1:B:2047:GLN:NE2	1:B:2252:ASN:OD1	2.41	0.53
1:C:678:LEU:HD11	1:C:692:MET:HG2	1.90	0.53
1:C:1595:TYR:HB3	1:C:1637:LEU:HD22	1.91	0.53
1:E:370:ILE:HG12	1:E:410:LEU:HG	1.90	0.53
1:C:243:ILE:HA	1:C:247:LEU:HD23	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:696:ILE:HG13	1:C:712:LEU:HD11	1.91	0.53
1:B:675:TYR:O	1:B:679:GLN:NE2	2.40	0.52
1:B:696:ILE:HG13	1:B:712:LEU:HD11	1.91	0.52
1:B:2374:ASN:OD1	1:B:2390:SER:OG	2.26	0.52
1:C:370:ILE:HG12	1:C:410:LEU:HG	1.90	0.52
1:D:1595:TYR:HB3	1:D:1637:LEU:HD22	1.91	0.52
1:A:1651:ASN:HB3	1:A:1654:THR:HG22	1.92	0.52
1:B:243:ILE:HA	1:B:247:LEU:HD23	1.91	0.52
1:B:370:ILE:HG12	1:B:410:LEU:HG	1.90	0.52
1:D:370:ILE:HG12	1:D:410:LEU:HG	1.90	0.52
1:D:696:ILE:HG13	1:D:712:LEU:HD11	1.91	0.52
1:E:696:ILE:HG13	1:E:712:LEU:HD11	1.91	0.52
1:C:1651:ASN:HB3	1:C:1654:THR:HG22	1.92	0.52
1:C:2082:LYS:NZ	1:C:2086:GLU:OE2	2.40	0.52
1:D:1651:ASN:HB3	1:D:1654:THR:HG22	1.92	0.52
1:B:306:GLN:HG3	1:B:315:THR:HG22	1.91	0.52
1:C:194:PRO:O	1:C:285:TYR:OH	2.22	0.52
1:C:2418:THR:HB	1:C:2508:ILE:HB	1.92	0.52
1:E:592:LYS:NZ	1:E:596:ASP:OD1	2.42	0.52
1:A:243:ILE:HA	1:A:247:LEU:HD23	1.90	0.52
1:A:1971:ARG:NH1	1:E:976:GLN:OE1	2.43	0.52
1:C:1262:ALA:O	1:C:1287:ARG:NH1	2.38	0.52
1:C:2374:ASN:OD1	1:C:2390:SER:OG	2.26	0.52
1:D:64:ALA:HB1	1:D:68:LYS:HE3	1.92	0.52
1:D:592:LYS:NZ	1:D:596:ASP:OD1	2.42	0.52
1:A:1262:ALA:O	1:A:1287:ARG:NH1	2.38	0.52
1:E:2418:THR:HB	1:E:2508:ILE:HB	1.92	0.52
1:A:1630:GLN:HE22	1:A:1818:VAL:HA	1.75	0.52
1:B:1651:ASN:HB3	1:B:1654:THR:HG22	1.92	0.52
1:E:1053:GLN:NE2	1:E:1058:ASP:OD1	2.43	0.52
1:A:678:LEU:HD11	1:A:692:MET:HG2	1.90	0.52
1:A:696:ILE:HG13	1:A:712:LEU:HD11	1.91	0.52
1:B:1595:TYR:HB3	1:B:1637:LEU:HD22	1.91	0.52
1:D:2373:ASN:ND2	1:D:2395:ASP:OD2	2.43	0.52
1:A:64:ALA:HB1	1:A:68:LYS:HE3	1.92	0.52
1:A:2418:THR:HB	1:A:2508:ILE:HB	1.92	0.52
1:B:678:LEU:HD11	1:B:692:MET:HG2	1.90	0.52
1:B:1912:ASP:OD2	1:B:1914:THR:OG1	2.27	0.52
1:C:1630:GLN:HE22	1:C:1818:VAL:HA	1.75	0.52
1:D:2177:ASP:OD1	1:E:2118:ARG:NH2	2.43	0.52
1:E:1630:GLN:HE22	1:E:1818:VAL:HA	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2373:ASN:ND2	1:A:2395:ASP:OD2	2.43	0.51
1:B:702:LEU:O	1:C:2255:ARG:NH2	2.42	0.51
1:B:1262:ALA:O	1:B:1287:ARG:NH1	2.38	0.51
1:C:675:TYR:O	1:C:679:GLN:NE2	2.40	0.51
1:D:306:GLN:HG3	1:D:315:THR:HG22	1.91	0.51
1:A:1053:GLN:NE2	1:A:1058:ASP:OD1	2.43	0.51
1:B:113:PHE:O	1:B:1028:TYR:OH	2.29	0.51
1:B:2373:ASN:ND2	1:B:2395:ASP:OD2	2.43	0.51
1:E:678:LEU:HD11	1:E:692:MET:HG2	1.90	0.51
1:A:306:GLN:HG3	1:A:315:THR:HG22	1.91	0.51
1:B:64:ALA:HB1	1:B:68:LYS:HE3	1.92	0.51
1:D:2418:THR:HB	1:D:2508:ILE:HB	1.92	0.51
1:E:276:LEU:HD23	1:E:437:LEU:HD13	1.93	0.51
1:E:64:ALA:HB1	1:E:68:LYS:HE3	1.92	0.51
1:C:276:LEU:HD23	1:C:437:LEU:HD13	1.93	0.51
1:E:1601:TYR:OH	1:E:1675:ILE:O	2.28	0.51
1:C:64:ALA:HB1	1:C:68:LYS:HE3	1.92	0.51
1:C:2027:ARG:NH2	1:C:2318:GLU:OE1	2.41	0.51
1:B:1630:GLN:HE22	1:B:1818:VAL:HA	1.75	0.51
1:E:113:PHE:O	1:E:1028:TYR:OH	2.29	0.51
1:E:2373:ASN:ND2	1:E:2395:ASP:OD2	2.43	0.51
1:B:1053:GLN:NE2	1:B:1058:ASP:OD1	2.43	0.51
1:C:1053:GLN:NE2	1:C:1058:ASP:OD1	2.43	0.51
1:D:1912:ASP:OD2	1:D:1914:THR:OG1	2.27	0.51
1:A:1101:ILE:HD11	1:A:1311:GLU:HB2	1.93	0.51
1:D:1630:GLN:HE22	1:D:1818:VAL:HA	1.75	0.51
1:D:2390:SER:HA	1:D:2483:THR:HA	1.93	0.51
1:A:2390:SER:HA	1:A:2483:THR:HA	1.93	0.51
1:B:2082:LYS:NZ	1:B:2086:GLU:OE2	2.40	0.51
1:B:2418:THR:HB	1:B:2508:ILE:HB	1.92	0.51
1:C:1447:ASN:ND2	1:C:1456:TYR:O	2.44	0.50
1:D:276:LEU:HD23	1:D:437:LEU:HD13	1.93	0.50
1:D:1053:GLN:NE2	1:D:1058:ASP:OD1	2.43	0.50
1:E:2390:SER:HA	1:E:2483:THR:HA	1.93	0.50
1:A:1447:ASN:ND2	1:A:1456:TYR:O	2.44	0.50
1:C:1082:LEU:HD11	1:C:1613:LEU:HD21	1.93	0.50
1:D:1447:ASN:ND2	1:D:1456:TYR:O	2.44	0.50
1:E:1082:LEU:HD11	1:E:1613:LEU:HD21	1.93	0.50
1:A:2318:GLU:HB3	1:E:2272:ARG:HH22	1.77	0.50
1:B:276:LEU:HD23	1:B:437:LEU:HD13	1.93	0.50
1:E:1651:ASN:HB3	1:E:1654:THR:HG22	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2082:LYS:NZ	1:E:2086:GLU:OE2	2.40	0.50
1:A:1221:ILE:HD12	1:A:1232:PRO:HG3	1.93	0.50
1:C:1101:ILE:HD11	1:C:1311:GLU:HB2	1.93	0.50
1:A:276:LEU:HD23	1:A:437:LEU:HD13	1.93	0.50
1:B:1082:LEU:HD11	1:B:1613:LEU:HD21	1.93	0.50
1:B:2177:ASP:OD1	1:C:2118:ARG:NH2	2.44	0.50
1:C:113:PHE:O	1:C:1028:TYR:OH	2.29	0.50
1:C:2177:ASP:OD1	1:D:2118:ARG:NH2	2.44	0.50
1:D:1774:TYR:HH	1:D:1848:TYR:HH	1.55	0.50
1:A:1912:ASP:OD2	1:A:1914:THR:OG1	2.27	0.50
1:B:1447:ASN:ND2	1:B:1456:TYR:O	2.44	0.50
1:B:2390:SER:HA	1:B:2483:THR:HA	1.93	0.50
1:D:113:PHE:O	1:D:1028:TYR:OH	2.29	0.50
1:E:2027:ARG:NH2	1:E:2318:GLU:OE1	2.41	0.50
1:A:2082:LYS:NZ	1:A:2086:GLU:OE2	2.40	0.50
1:B:1221:ILE:HD12	1:B:1232:PRO:HG3	1.93	0.50
1:A:1082:LEU:HD11	1:A:1613:LEU:HD21	1.93	0.50
1:C:1221:ILE:HD12	1:C:1232:PRO:HG3	1.93	0.50
1:C:2373:ASN:ND2	1:C:2395:ASP:OD2	2.43	0.50
1:D:445:ARG:HG2	1:D:448:ARG:HH21	1.77	0.50
1:E:1221:ILE:HD12	1:E:1232:PRO:HG3	1.93	0.50
1:B:445:ARG:HG2	1:B:448:ARG:HH21	1.77	0.49
1:B:1101:ILE:HD11	1:B:1311:GLU:HB2	1.93	0.49
1:E:445:ARG:HG2	1:E:448:ARG:HH21	1.77	0.49
1:A:113:PHE:O	1:A:1028:TYR:OH	2.29	0.49
1:D:1101:ILE:HD11	1:D:1311:GLU:HB2	1.93	0.49
1:B:332:ARG:NH1	1:B:343:VAL:O	2.40	0.49
1:E:1447:ASN:ND2	1:E:1456:TYR:O	2.44	0.49
1:E:2328:ALA:HB2	1:E:2516:LYS:HE2	1.94	0.49
1:A:194:PRO:O	1:A:285:TYR:OH	2.22	0.49
1:C:2390:SER:HA	1:C:2483:THR:HA	1.93	0.49
1:B:1092:LYS:HG3	1:B:1594:GLN:HE22	1.78	0.49
1:C:1865:ASP:OD1	1:C:1883:TYR:OH	2.31	0.49
1:E:1865:ASP:OD1	1:E:1883:TYR:OH	2.31	0.49
1:A:2327:ARG:NH2	1:E:2469:PHE:O	2.46	0.49
1:E:1101:ILE:HD11	1:E:1311:GLU:HB2	1.93	0.49
1:A:445:ARG:HG2	1:A:448:ARG:HH21	1.77	0.49
1:C:638:THR:O	1:C:642:HIS:ND1	2.46	0.49
1:C:2328:ALA:HB2	1:C:2516:LYS:HE2	1.94	0.49
1:D:2368:ALA:HB3	1:D:2375:LEU:HB3	1.95	0.49
1:D:1082:LEU:HD11	1:D:1613:LEU:HD21	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1092:LYS:HG3	1:D:1594:GLN:HE22	1.78	0.49
1:A:1625:LEU:O	1:A:1817:ASN:ND2	2.46	0.49
1:B:2328:ALA:HB2	1:B:2516:LYS:HE2	1.94	0.49
1:D:2328:ALA:HB2	1:D:2516:LYS:HE2	1.94	0.49
1:E:1625:LEU:O	1:E:1817:ASN:ND2	2.46	0.49
1:A:2328:ALA:HB2	1:A:2516:LYS:HE2	1.94	0.48
1:C:332:ARG:NH1	1:C:343:VAL:O	2.40	0.48
1:A:2368:ALA:HB3	1:A:2375:LEU:HB3	1.95	0.48
1:B:2368:ALA:HB3	1:B:2375:LEU:HB3	1.95	0.48
1:C:445:ARG:HG2	1:C:448:ARG:HH21	1.77	0.48
1:C:1774:TYR:HH	1:C:1848:TYR:HH	1.60	0.48
1:D:1221:ILE:HD12	1:D:1232:PRO:HG3	1.93	0.48
1:E:1092:LYS:HG3	1:E:1594:GLN:HE22	1.78	0.48
1:E:2368:ALA:HB3	1:E:2375:LEU:HB3	1.95	0.48
1:A:638:THR:O	1:A:642:HIS:ND1	2.46	0.48
1:B:1865:ASP:OD1	1:B:1883:TYR:OH	2.31	0.48
1:D:106:PRO:HB3	1:D:1951:GLN:HE21	1.79	0.48
1:D:2027:ARG:NH2	1:D:2318:GLU:OE1	2.41	0.48
1:A:1092:LYS:HG3	1:A:1594:GLN:HE22	1.78	0.48
1:C:1625:LEU:O	1:C:1817:ASN:ND2	2.46	0.48
1:D:332:ARG:NH1	1:D:343:VAL:O	2.40	0.48
1:D:2082:LYS:NZ	1:D:2086:GLU:OE2	2.40	0.48
1:E:1497:LYS:HB3	1:E:1558:PHE:HB2	1.96	0.48
1:A:1497:LYS:HB3	1:A:1558:PHE:HB2	1.96	0.48
1:C:106:PRO:HB3	1:C:1951:GLN:HE21	1.79	0.48
1:C:1021:TRP:HA	1:C:1025:ASN:HB2	1.96	0.48
1:D:1625:LEU:O	1:D:1817:ASN:ND2	2.46	0.48
1:A:1311:GLU:HB3	1:A:1575:THR:HB	1.96	0.48
1:E:1912:ASP:OD2	1:E:1914:THR:OG1	2.27	0.48
1:B:106:PRO:HB3	1:B:1951:GLN:HE21	1.79	0.48
1:D:1311:GLU:HB3	1:D:1575:THR:HB	1.96	0.48
1:E:106:PRO:HB3	1:E:1951:GLN:HE21	1.79	0.48
1:E:1021:TRP:HA	1:E:1025:ASN:HB2	1.96	0.48
1:A:332:ARG:NH1	1:A:343:VAL:O	2.40	0.48
1:C:1497:LYS:HB3	1:C:1558:PHE:HB2	1.96	0.48
1:D:1021:TRP:HA	1:D:1025:ASN:HB2	1.96	0.48
1:A:1865:ASP:OD1	1:A:1883:TYR:OH	2.31	0.48
1:C:2368:ALA:HB3	1:C:2375:LEU:HB3	1.95	0.48
1:B:1625:LEU:O	1:B:1817:ASN:ND2	2.46	0.47
1:C:1092:LYS:HG3	1:C:1594:GLN:HE22	1.78	0.47
1:D:508:TYR:HB2	1:D:511:GLN:HE21	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1311:GLU:HB3	1:E:1575:THR:HB	1.96	0.47
1:A:1139:ASN:ND2	1:A:1828:ASN:OD1	2.44	0.47
1:B:1021:TRP:HA	1:B:1025:ASN:HB2	1.96	0.47
1:B:1497:LYS:HB3	1:B:1558:PHE:HB2	1.96	0.47
1:C:698:ALA:HB1	1:D:2253:TRP:HA	1.95	0.47
1:B:1311:GLU:HB3	1:B:1575:THR:HB	1.96	0.47
1:C:450:THR:HB	1:C:482:LYS:HD2	1.97	0.47
1:D:1497:LYS:HB3	1:D:1558:PHE:HB2	1.96	0.47
1:A:450:THR:HB	1:A:482:LYS:HD2	1.97	0.47
1:B:450:THR:HB	1:B:482:LYS:HD2	1.96	0.47
1:B:508:TYR:HB2	1:B:511:GLN:HE21	1.79	0.47
1:C:1311:GLU:HB3	1:C:1575:THR:HB	1.96	0.47
1:D:698:ALA:HB1	1:E:2253:TRP:HA	1.95	0.47
1:E:508:TYR:HB2	1:E:511:GLN:HE21	1.79	0.47
1:A:1021:TRP:HA	1:A:1025:ASN:HB2	1.96	0.47
1:B:1050:ARG:NH2	1:B:1770:GLU:OE2	2.48	0.47
1:D:402:ILE:HG23	1:D:428:VAL:HB	1.97	0.47
1:E:638:THR:O	1:E:642:HIS:ND1	2.46	0.47
1:A:1378:TYR:HE2	1:A:1454:ASP:HB3	1.80	0.47
1:D:1139:ASN:ND2	1:D:1828:ASN:OD1	2.44	0.47
1:D:2435:TYR:HB2	1:D:2472:PHE:HE1	1.80	0.47
1:E:450:THR:HB	1:E:482:LYS:HD2	1.97	0.47
1:A:106:PRO:HB3	1:A:1951:GLN:HE21	1.79	0.47
1:A:1130:LYS:HB2	1:A:1140:ALA:HB2	1.97	0.47
1:B:1302:VAL:HB	1:B:1584:LEU:HB2	1.97	0.47
1:D:1130:LYS:HB2	1:D:1140:ALA:HB2	1.97	0.47
1:E:402:ILE:HG23	1:E:428:VAL:HB	1.97	0.47
1:E:1130:LYS:HB2	1:E:1140:ALA:HB2	1.97	0.47
1:A:2435:TYR:HB2	1:A:2472:PHE:HE1	1.80	0.47
1:B:149:ALA:O	1:B:154:ASN:ND2	2.47	0.47
1:B:1378:TYR:HE2	1:B:1454:ASP:HB3	1.80	0.47
1:C:1796:LEU:HD12	1:C:1859:LEU:HD22	1.97	0.47
1:B:2027:ARG:NH2	1:B:2318:GLU:OE1	2.41	0.46
1:C:170:LEU:HD21	1:C:186:MET:HE2	1.97	0.46
1:C:508:TYR:HB2	1:C:511:GLN:HE21	1.79	0.46
1:C:1139:ASN:ND2	1:C:1828:ASN:OD1	2.44	0.46
1:D:1050:ARG:NH2	1:D:1770:GLU:OE2	2.48	0.46
1:E:1302:VAL:HB	1:E:1584:LEU:HB2	1.97	0.46
1:A:299:LYS:NZ	1:A:308:TYR:O	2.38	0.46
1:C:1378:TYR:HE2	1:C:1454:ASP:HB3	1.80	0.46
1:D:638:THR:O	1:D:642:HIS:ND1	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:508:TYR:HB2	1:A:511:GLN:HE21	1.79	0.46
1:C:402:ILE:HG23	1:C:428:VAL:HB	1.97	0.46
1:C:2282:TRP:O	1:C:2411:ARG:NH1	2.47	0.46
1:C:2435:TYR:HB2	1:C:2472:PHE:HE1	1.80	0.46
1:E:2435:TYR:HB2	1:E:2472:PHE:HE1	1.80	0.46
1:A:308:TYR:HE1	1:A:313:LEU:HD22	1.81	0.46
1:B:1532:PHE:HD2	1:B:1535:LEU:HD11	1.80	0.46
1:D:1532:PHE:HD2	1:D:1535:LEU:HD11	1.80	0.46
1:E:149:ALA:O	1:E:154:ASN:ND2	2.47	0.46
1:E:1796:LEU:HD12	1:E:1859:LEU:HD22	1.98	0.46
1:B:170:LEU:HD21	1:B:186:MET:HE2	1.97	0.46
1:C:1050:ARG:NH2	1:C:1770:GLU:OE2	2.48	0.46
1:C:1601:TYR:OH	1:C:1675:ILE:O	2.28	0.46
1:C:1912:ASP:OD2	1:C:1914:THR:OG1	2.27	0.46
1:E:170:LEU:HD21	1:E:186:MET:HE2	1.97	0.46
1:E:1050:ARG:NH2	1:E:1770:GLU:OE2	2.48	0.46
1:A:170:LEU:HD21	1:A:186:MET:HE2	1.97	0.46
1:A:1302:VAL:HB	1:A:1584:LEU:HB2	1.97	0.46
1:C:637:ILE:HG12	1:C:802:ILE:HD11	1.97	0.46
1:C:1532:PHE:HD2	1:C:1535:LEU:HD11	1.80	0.46
1:D:450:THR:HB	1:D:482:LYS:HD2	1.97	0.46
1:B:698:ALA:HB1	1:C:2253:TRP:HA	1.97	0.46
1:B:2435:TYR:HB2	1:B:2472:PHE:HE1	1.80	0.46
1:D:170:LEU:HD21	1:D:186:MET:HE2	1.97	0.46
1:A:298:GLY:HA2	1:A:309:SER:HB3	1.98	0.46
1:A:1532:PHE:HD2	1:A:1535:LEU:HD11	1.80	0.46
1:A:2330:GLU:HA	1:A:2514:THR:HA	1.98	0.46
1:B:402:ILE:HG23	1:B:428:VAL:HB	1.97	0.46
1:C:205:GLU:HA	1:C:208:ARG:HG2	1.98	0.46
1:D:205:GLU:HA	1:D:208:ARG:HG2	1.98	0.46
1:D:1868:TYR:OH	1:D:1974:LEU:O	2.34	0.46
1:E:637:ILE:HG12	1:E:802:ILE:HD11	1.97	0.46
1:A:402:ILE:HG23	1:A:428:VAL:HB	1.97	0.46
1:B:1796:LEU:HD12	1:B:1859:LEU:HD22	1.97	0.46
1:C:1127:ASP:H	1:C:1140:ALA:HB1	1.81	0.46
1:C:2330:GLU:HA	1:C:2514:THR:HA	1.98	0.46
1:B:205:GLU:HA	1:B:208:ARG:HG2	1.98	0.46
1:C:1868:TYR:OH	1:C:1974:LEU:O	2.34	0.46
1:D:149:ALA:O	1:D:154:ASN:ND2	2.47	0.46
1:E:1532:PHE:HD2	1:E:1535:LEU:HD11	1.80	0.46
1:E:1861:ILE:HG12	1:E:1963:LEU:HD21	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:698:ALA:HB1	1:B:2253:TRP:HA	1.97	0.45
1:A:1050:ARG:NH2	1:A:1770:GLU:OE2	2.48	0.45
1:A:2469:PHE:O	1:B:2327:ARG:NH2	2.48	0.45
1:D:637:ILE:HG12	1:D:802:ILE:HD11	1.97	0.45
1:D:1127:ASP:H	1:D:1140:ALA:HB1	1.81	0.45
1:D:2330:GLU:HA	1:D:2514:THR:HA	1.98	0.45
1:B:637:ILE:HG12	1:B:802:ILE:HD11	1.97	0.45
1:B:1127:ASP:H	1:B:1140:ALA:HB1	1.81	0.45
1:B:2272:ARG:HH22	1:C:2318:GLU:HB3	1.80	0.45
1:C:298:GLY:HA2	1:C:309:SER:HB3	1.98	0.45
1:D:1002:GLU:O	1:E:79:HIS:NE2	2.44	0.45
1:A:637:ILE:HG12	1:A:802:ILE:HD11	1.98	0.45
1:A:1127:ASP:H	1:A:1140:ALA:HB1	1.81	0.45
1:A:1601:TYR:OH	1:A:1675:ILE:O	2.28	0.45
1:A:2315:ALA:HB1	1:E:2029:MET:HE1	1.98	0.45
1:B:1130:LYS:HB2	1:B:1140:ALA:HB2	1.97	0.45
1:B:2282:TRP:O	1:B:2411:ARG:NH1	2.47	0.45
1:D:298:GLY:HA2	1:D:309:SER:HB3	1.98	0.45
1:D:1378:TYR:HE2	1:D:1454:ASP:HB3	1.80	0.45
1:D:1796:LEU:HD12	1:D:1859:LEU:HD22	1.97	0.45
1:E:299:LYS:NZ	1:E:308:TYR:O	2.38	0.45
1:A:1002:GLU:O	1:B:79:HIS:NE2	2.43	0.45
1:A:2118:ARG:NH2	1:E:2177:ASP:OD1	2.48	0.45
1:B:1868:TYR:OH	1:B:1974:LEU:O	2.34	0.45
1:B:2469:PHE:O	1:C:2327:ARG:NH2	2.47	0.45
1:D:1302:VAL:HB	1:D:1584:LEU:HB2	1.97	0.45
1:E:308:TYR:HE1	1:E:313:LEU:HD22	1.81	0.45
1:E:1868:TYR:OH	1:E:1974:LEU:O	2.34	0.45
1:A:2282:TRP:O	1:A:2411:ARG:NH1	2.47	0.45
1:B:298:GLY:HA2	1:B:309:SER:HB3	1.98	0.45
1:D:308:TYR:HE1	1:D:313:LEU:HD22	1.81	0.45
1:E:205:GLU:HA	1:E:208:ARG:HG2	1.98	0.45
1:A:205:GLU:HA	1:A:208:ARG:HG2	1.98	0.45
1:A:892:GLN:NE2	1:E:540:SER:O	2.47	0.45
1:A:1868:TYR:OH	1:A:1974:LEU:O	2.34	0.45
1:E:1378:TYR:HE2	1:E:1454:ASP:HB3	1.80	0.45
1:A:2312:LEU:HD22	1:E:2261:ILE:HG23	1.99	0.45
1:B:308:TYR:HE1	1:B:313:LEU:HD22	1.81	0.45
1:C:1130:LYS:HB2	1:C:1140:ALA:HB2	1.97	0.45
1:D:2282:TRP:O	1:D:2411:ARG:NH1	2.47	0.45
1:E:1094:ILE:HD11	1:E:1113:LEU:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1127:ASP:H	1:E:1140:ALA:HB1	1.81	0.45
1:C:1302:VAL:HB	1:C:1584:LEU:HB2	1.97	0.45
1:D:2469:PHE:O	1:E:2327:ARG:NH2	2.49	0.45
1:E:2330:GLU:HA	1:E:2514:THR:HA	1.98	0.45
1:A:2272:ARG:HH22	1:B:2318:GLU:HB3	1.81	0.45
1:A:1796:LEU:HD12	1:A:1859:LEU:HD22	1.97	0.45
1:A:2344:LEU:HB2	1:A:2350:PRO:HB3	1.99	0.45
1:D:663:LEU:HD22	1:D:749:GLN:HE21	1.82	0.45
1:D:1861:ILE:HG12	1:D:1963:LEU:HD21	1.98	0.45
1:E:298:GLY:HA2	1:E:309:SER:HB3	1.98	0.45
1:E:477:LYS:NZ	1:E:499:CYS:O	2.36	0.45
1:C:1426:ARG:NH1	1:C:1428:THR:O	2.50	0.44
1:C:1861:ILE:HG12	1:C:1963:LEU:HD21	1.98	0.44
1:A:1861:ILE:HG12	1:A:1963:LEU:HD21	1.98	0.44
1:B:1426:ARG:NH1	1:B:1428:THR:O	2.50	0.44
1:C:308:TYR:HE1	1:C:313:LEU:HD22	1.81	0.44
1:C:2272:ARG:HH22	1:D:2318:GLU:HB3	1.82	0.44
1:A:663:LEU:HD22	1:A:749:GLN:HE21	1.82	0.44
1:B:1094:ILE:HD11	1:B:1113:LEU:HB2	1.99	0.44
1:B:638:THR:O	1:B:642:HIS:ND1	2.46	0.44
1:E:663:LEU:HD22	1:E:749:GLN:HE21	1.82	0.44
1:E:1426:ARG:NH1	1:E:1428:THR:O	2.50	0.44
1:A:141:ARG:HG3	1:A:142:ARG:HG2	2.00	0.44
1:A:1426:ARG:NH1	1:A:1428:THR:O	2.50	0.44
1:D:540:SER:O	1:E:892:GLN:NE2	2.46	0.44
1:B:1861:ILE:HG12	1:B:1963:LEU:HD21	1.98	0.44
1:A:2027:ARG:NH2	1:A:2318:GLU:OE1	2.41	0.44
1:B:540:SER:O	1:C:892:GLN:NE2	2.46	0.44
1:B:2330:GLU:HA	1:B:2514:THR:HA	1.98	0.44
1:D:299:LYS:NZ	1:D:308:TYR:O	2.38	0.44
1:D:1426:ARG:NH1	1:D:1428:THR:O	2.50	0.44
1:A:540:SER:O	1:B:892:GLN:NE2	2.48	0.44
1:C:779:PHE:HD1	1:C:786:PHE:HD2	1.66	0.44
1:C:1094:ILE:HD11	1:C:1113:LEU:HB2	1.99	0.44
1:D:253:GLU:O	1:D:442:LYS:NZ	2.45	0.44
1:D:1094:ILE:HD11	1:D:1113:LEU:HB2	1.99	0.44
1:E:2344:LEU:HB2	1:E:2350:PRO:HB3	1.99	0.44
1:B:663:LEU:HD22	1:B:749:GLN:HE21	1.82	0.43
1:B:1774:TYR:HH	1:B:1848:TYR:HH	1.58	0.43
1:A:2017:TRP:HB2	1:A:2022:MET:HE2	2.01	0.43
1:C:663:LEU:HD22	1:C:749:GLN:HE21	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2469:PHE:O	1:D:2327:ARG:NH2	2.49	0.43
1:D:141:ARG:HG3	1:D:142:ARG:HG2	2.00	0.43
1:D:1607:THR:OG1	1:D:1634:GLU:OE2	2.34	0.43
1:D:1865:ASP:OD1	1:D:1883:TYR:OH	2.31	0.43
1:A:1094:ILE:HD11	1:A:1113:LEU:HB2	1.99	0.43
1:B:1139:ASN:ND2	1:B:1828:ASN:OD1	2.44	0.43
1:C:141:ARG:HG3	1:C:142:ARG:HG2	2.00	0.43
1:C:1002:GLU:O	1:D:79:HIS:NE2	2.45	0.43
1:D:779:PHE:HD1	1:D:786:PHE:HD2	1.66	0.43
1:A:1180:GLN:HE22	1:B:1190:THR:H	1.66	0.43
1:B:2344:LEU:HB2	1:B:2350:PRO:HB3	1.99	0.43
1:C:540:SER:O	1:D:892:GLN:NE2	2.45	0.43
1:C:1774:TYR:OH	1:C:1848:TYR:OH	2.32	0.43
1:D:2245:PHE:HD2	1:E:2044:ILE:HG21	1.84	0.43
1:D:2248:GLN:HG2	1:D:2252:ASN:HD21	1.84	0.43
1:D:2272:ARG:HH22	1:E:2318:GLU:HB3	1.82	0.43
1:D:2344:LEU:HB2	1:D:2350:PRO:HB3	1.99	0.43
1:E:332:ARG:NH1	1:E:343:VAL:O	2.40	0.43
1:E:1061:LEU:O	1:E:1065:SER:OG	2.31	0.43
1:A:779:PHE:HD1	1:A:786:PHE:HD2	1.66	0.43
1:B:141:ARG:HG3	1:B:142:ARG:HG2	2.00	0.43
1:C:1374:LEU:HD22	1:C:1423:LEU:HB3	2.01	0.43
1:D:1374:LEU:HD22	1:D:1423:LEU:HB3	2.01	0.43
1:E:779:PHE:HD1	1:E:786:PHE:HD2	1.66	0.43
1:B:2337:LEU:HA	1:B:2340:VAL:HG12	2.01	0.43
1:C:2459:GLN:HE22	1:D:2327:ARG:HD3	1.84	0.43
1:A:2253:TRP:HA	1:E:698:ALA:HB1	1.99	0.43
1:C:519:PHE:HD1	1:C:550:ILE:HG22	1.84	0.43
1:C:2248:GLN:HG2	1:C:2252:ASN:HD21	1.84	0.43
1:D:2251:TYR:OH	1:E:2045:GLU:OE2	2.34	0.43
1:A:897:LEU:HD21	1:A:922:LEU:HD11	2.01	0.42
1:B:253:GLU:O	1:B:442:LYS:NZ	2.45	0.42
1:D:897:LEU:HD21	1:D:922:LEU:HD11	2.01	0.42
1:E:314:ILE:HD13	1:E:436:PHE:HZ	1.84	0.42
1:A:1256:LEU:HD11	1:A:1292:GLN:HA	2.01	0.42
1:B:2017:TRP:HB2	1:B:2022:MET:HE2	2.01	0.42
1:D:2337:LEU:HA	1:D:2340:VAL:HG12	2.01	0.42
1:E:1256:LEU:HD11	1:E:1292:GLN:HA	2.01	0.42
1:C:2410:ARG:HG2	1:C:2515:ILE:HG12	2.01	0.42
1:E:2248:GLN:HG2	1:E:2252:ASN:HD21	1.84	0.42
1:A:79:HIS:NE2	1:E:1002:GLU:O	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:314:ILE:HD13	1:A:436:PHE:HZ	1.84	0.42
1:A:519:PHE:HD1	1:A:550:ILE:HG22	1.84	0.42
1:B:314:ILE:HD13	1:B:436:PHE:HZ	1.84	0.42
1:B:779:PHE:HD1	1:B:786:PHE:HD2	1.66	0.42
1:C:1365:GLU:HA	1:C:1369:ARG:HB2	2.02	0.42
1:C:2344:LEU:HB2	1:C:2350:PRO:HB3	1.99	0.42
1:E:1139:ASN:ND2	1:E:1828:ASN:OD1	2.44	0.42
1:A:149:ALA:O	1:A:154:ASN:ND2	2.47	0.42
1:A:2248:GLN:HG2	1:A:2252:ASN:HD21	1.84	0.42
1:B:2139:ASP:OD2	1:B:2153:ARG:NH2	2.48	0.42
1:C:149:ALA:O	1:C:154:ASN:ND2	2.47	0.42
1:C:314:ILE:HD13	1:C:436:PHE:HZ	1.84	0.42
1:C:1504:ALA:HB2	1:C:1551:ILE:HG23	2.02	0.42
1:D:314:ILE:HD13	1:D:436:PHE:HZ	1.84	0.42
1:D:519:PHE:HD1	1:D:550:ILE:HG22	1.84	0.42
1:D:1256:LEU:HD11	1:D:1292:GLN:HA	2.01	0.42
1:D:1504:ALA:HB2	1:D:1551:ILE:HG23	2.02	0.42
1:E:141:ARG:HG3	1:E:142:ARG:HG2	2.00	0.42
1:A:2245:PHE:HD2	1:B:2044:ILE:HG21	1.83	0.42
1:B:897:LEU:HD21	1:B:922:LEU:HD11	2.01	0.42
1:B:1365:GLU:HA	1:B:1369:ARG:HB2	2.02	0.42
1:B:2248:GLN:HG2	1:B:2252:ASN:HD21	1.84	0.42
1:C:2139:ASP:OD2	1:C:2153:ARG:NH2	2.49	0.42
1:C:2337:LEU:HA	1:C:2340:VAL:HG12	2.01	0.42
1:A:968:TYR:HE2	1:B:1884:MET:HG3	1.85	0.42
1:A:2139:ASP:OD2	1:A:2153:ARG:NH2	2.48	0.42
1:B:1374:LEU:HD22	1:B:1423:LEU:HB3	2.01	0.42
1:A:1365:GLU:HA	1:A:1369:ARG:HB2	2.02	0.42
1:B:1504:ALA:HB2	1:B:1551:ILE:HG23	2.02	0.42
1:E:897:LEU:HD21	1:E:922:LEU:HD11	2.01	0.42
1:C:897:LEU:HD21	1:C:922:LEU:HD11	2.01	0.42
1:C:1350:LYS:NZ	1:C:1538:ASP:OD1	2.49	0.42
1:D:2017:TRP:HB2	1:D:2022:MET:HE2	2.01	0.42
1:D:2336:SER:OG	1:D:2506:ASP:OD2	2.37	0.42
1:E:1374:LEU:HD22	1:E:1423:LEU:HB3	2.01	0.42
1:A:1374:LEU:HD22	1:A:1423:LEU:HB3	2.01	0.41
1:D:111:SER:OG	1:D:1951:GLN:OE1	2.38	0.41
1:A:1066:GLN:OE1	1:D:2178:LYS:NZ	2.52	0.41
1:E:253:GLU:O	1:E:442:LYS:NZ	2.45	0.41
1:E:519:PHE:HD1	1:E:550:ILE:HG22	1.84	0.41
1:E:1293:GLN:NE2	1:E:1304:ASN:OD1	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2017:TRP:HB2	1:E:2022:MET:HE2	2.01	0.41
1:E:2282:TRP:O	1:E:2411:ARG:NH1	2.47	0.41
1:A:1293:GLN:NE2	1:A:1304:ASN:OD1	2.53	0.41
1:B:519:PHE:HD1	1:B:550:ILE:HG22	1.84	0.41
1:B:1047:PRO:HG2	1:B:1781:GLN:HE21	1.85	0.41
1:C:2017:TRP:HB2	1:C:2022:MET:HE2	2.01	0.41
1:D:2410:ARG:HG2	1:D:2515:ILE:HG12	2.01	0.41
1:D:2459:GLN:HE22	1:E:2327:ARG:HD3	1.85	0.41
1:B:2410:ARG:HG2	1:B:2515:ILE:HG12	2.01	0.41
1:C:1293:GLN:NE2	1:C:1304:ASN:OD1	2.53	0.41
1:C:2251:TYR:OH	1:D:2045:GLU:OE2	2.37	0.41
1:D:1060:LEU:HD13	1:D:1081:TYR:HB2	2.02	0.41
1:D:1293:GLN:NE2	1:D:1304:ASN:OD1	2.53	0.41
1:E:1060:LEU:HD13	1:E:1081:TYR:HB2	2.02	0.41
1:E:1365:GLU:HA	1:E:1369:ARG:HB2	2.02	0.41
1:E:2337:LEU:HA	1:E:2340:VAL:HG12	2.01	0.41
1:E:2410:ARG:HG2	1:E:2515:ILE:HG12	2.01	0.41
1:A:1047:PRO:HG2	1:A:1781:GLN:HE21	1.85	0.41
1:D:1047:PRO:HG2	1:D:1781:GLN:HE21	1.85	0.41
1:A:2337:LEU:HA	1:A:2340:VAL:HG12	2.01	0.41
1:A:2410:ARG:HG2	1:A:2515:ILE:HG12	2.01	0.41
1:C:1047:PRO:HG2	1:C:1781:GLN:HE21	1.85	0.41
1:C:1256:LEU:HD11	1:C:1292:GLN:HA	2.01	0.41
1:B:2245:PHE:HD2	1:C:2044:ILE:HG21	1.85	0.41
1:C:1531:GLN:NE2	1:D:1752:ASN:HD21	2.19	0.41
1:C:2009:LEU:HB2	1:C:2294:PRO:HB3	2.02	0.41
1:E:1504:ALA:HB2	1:E:1551:ILE:HG23	2.02	0.41
1:E:2009:LEU:HB2	1:E:2294:PRO:HB3	2.02	0.41
1:A:2251:TYR:OH	1:B:2045:GLU:OE2	2.33	0.41
1:B:465:ASN:ND2	1:B:469:ASP:OD1	2.54	0.41
1:B:1256:LEU:HD11	1:B:1292:GLN:HA	2.01	0.41
1:B:1293:GLN:NE2	1:B:1304:ASN:OD1	2.53	0.41
1:D:1430:TYR:OH	1:D:1475:ASP:OD2	2.38	0.41
1:A:465:ASN:ND2	1:A:469:ASP:OD1	2.54	0.41
1:A:659:TYR:HB2	1:A:754:GLN:HG2	2.03	0.41
1:A:1060:LEU:HD13	1:A:1081:TYR:HB2	2.02	0.41
1:A:2327:ARG:HD3	1:E:2459:GLN:HE22	1.86	0.41
1:B:659:TYR:HB2	1:B:754:GLN:HG2	2.03	0.41
1:C:968:TYR:HE2	1:D:1884:MET:HG3	1.86	0.41
1:C:2245:PHE:HD2	1:D:2044:ILE:HG21	1.86	0.41
1:D:465:ASN:ND2	1:D:469:ASP:OD1	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1331:MET:HG2	1:D:1333:TYR:HB2	2.03	0.41
1:D:1365:GLU:HA	1:D:1369:ARG:HB2	2.02	0.41
1:D:2009:LEU:HB2	1:D:2294:PRO:HB3	2.02	0.41
1:B:1252:GLN:NE2	1:B:1296:THR:O	2.45	0.41
1:B:2009:LEU:HB2	1:B:2294:PRO:HB3	2.02	0.41
1:E:111:SER:OG	1:E:1951:GLN:OE1	2.38	0.41
1:B:1350:LYS:NZ	1:B:1538:ASP:OD1	2.49	0.40
1:D:1350:LYS:NZ	1:D:1538:ASP:OD1	2.49	0.40
1:E:283:LYS:HE3	1:E:289:SER:HA	2.03	0.40
1:E:1047:PRO:HG2	1:E:1781:GLN:HE21	1.85	0.40
1:E:1634:GLU:HA	1:E:1635:PRO:HD3	1.96	0.40
1:A:1350:LYS:NZ	1:A:1538:ASP:OD1	2.49	0.40
1:B:1060:LEU:HD13	1:B:1081:TYR:HB2	2.02	0.40
1:C:1060:LEU:HD13	1:C:1081:TYR:HB2	2.02	0.40
1:D:700:LEU:HD11	1:D:759:LEU:HB3	2.04	0.40
1:D:968:TYR:HE2	1:E:1884:MET:HG3	1.86	0.40
1:E:1622:ASP:OD1	1:E:1798:TYR:OH	2.33	0.40
1:A:1504:ALA:HB2	1:A:1551:ILE:HG23	2.02	0.40
1:D:1650:TYR:OH	1:D:1656:GLY:O	2.32	0.40
1:B:700:LEU:HD11	1:B:759:LEU:HB3	2.04	0.40
1:B:1296:THR:HG23	1:B:1301:ARG:HH12	1.87	0.40
1:B:2029:MET:HE1	1:C:2315:ALA:HB1	2.03	0.40
1:B:2459:GLN:HE22	1:C:2327:ARG:HD3	1.86	0.40
1:C:111:SER:OG	1:C:1951:GLN:OE1	2.38	0.40
1:D:1296:THR:HG23	1:D:1301:ARG:HH12	1.87	0.40
1:E:2139:ASP:OD2	1:E:2153:ARG:NH2	2.48	0.40
1:A:1296:THR:HG23	1:A:1301:ARG:HH12	1.87	0.40
1:A:1331:MET:HG2	1:A:1333:TYR:HB2	2.03	0.40
1:A:1531:GLN:NE2	1:B:1752:ASN:HD21	2.19	0.40
1:A:2009:LEU:HB2	1:A:2294:PRO:HB3	2.02	0.40
1:A:2459:GLN:HE22	1:B:2327:ARG:HD3	1.86	0.40
1:B:226:ALA:HB1	1:B:858:HIS:HD2	1.87	0.40
1:B:1109:TYR:HD2	1:B:1167:LEU:HD13	1.87	0.40
1:E:1162:ILE:HD13	1:E:1162:ILE:HA	1.91	0.40
1:E:1296:THR:HG23	1:E:1301:ARG:HH12	1.87	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	2448/2516 (97%)	2368 (97%)	80 (3%)	0	100	100
1	B	2448/2516 (97%)	2368 (97%)	80 (3%)	0	100	100
1	C	2448/2516 (97%)	2366 (97%)	82 (3%)	0	100	100
1	D	2448/2516 (97%)	2367 (97%)	81 (3%)	0	100	100
1	E	2448/2516 (97%)	2365 (97%)	83 (3%)	0	100	100
All	All	12240/12580 (97%)	11834 (97%)	406 (3%)	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	2100/2157 (97%)	2099 (100%)	1 (0%)	100	100
1	B	2100/2157 (97%)	2099 (100%)	1 (0%)	100	100
1	C	2100/2157 (97%)	2099 (100%)	1 (0%)	100	100
1	D	2100/2157 (97%)	2099 (100%)	1 (0%)	100	100
1	E	2100/2157 (97%)	2099 (100%)	1 (0%)	100	100
All	All	10500/10785 (97%)	10495 (100%)	5 (0%)	100	100

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	521	THR
1	B	521	THR
1	C	521	THR
1	D	521	THR
1	E	521	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (141) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	102	GLN
1	A	130	HIS
1	A	240	ASN
1	A	486	GLN
1	A	511	GLN
1	A	618	ASN
1	A	852	GLN
1	A	858	HIS
1	A	875	ASN
1	A	1180	GLN
1	A	1284	ASN
1	A	1293	GLN
1	A	1304	ASN
1	A	1361	HIS
1	A	1449	ASN
1	A	1529	ASN
1	A	1531	GLN
1	A	1543	ASN
1	A	1672	ASN
1	A	1700	ASN
1	A	1917	ASN
1	A	2042	ASN
1	A	2053	ASN
1	A	2058	ASN
1	A	2285	ASN
1	A	2427	GLN
1	A	2430	GLN
1	A	2459	GLN
1	A	2497	GLN
1	A	2505	ASN
1	B	102	GLN
1	B	130	HIS
1	B	486	GLN
1	B	511	GLN

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Mol	Chain	Res	Type
1	B	573	ASN
1	B	618	ASN
1	B	858	HIS
1	B	875	ASN
1	B	1053	GLN
1	B	1284	ASN
1	B	1293	GLN
1	B	1304	ASN
1	B	1361	HIS
1	B	1449	ASN
1	B	1529	ASN
1	B	1531	GLN
1	B	1672	ASN
1	B	1700	ASN
1	B	2042	ASN
1	B	2047	GLN
1	B	2053	ASN
1	B	2058	ASN
1	B	2112	ASN
1	B	2252	ASN
1	B	2285	ASN
1	B	2430	GLN
1	B	2459	GLN
1	B	2497	GLN
1	B	2505	ASN
1	C	102	GLN
1	C	130	HIS
1	C	486	GLN
1	C	511	GLN
1	C	573	ASN
1	C	618	ASN
1	C	852	GLN
1	C	858	HIS
1	C	875	ASN
1	C	1284	ASN
1	C	1293	GLN
1	C	1304	ASN
1	C	1361	HIS
1	C	1449	ASN
1	C	1529	ASN
1	C	1531	GLN
1	C	1543	ASN

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Mol	Chain	Res	Type
1	C	1672	ASN
1	C	2042	ASN
1	C	2053	ASN
1	C	2058	ASN
1	C	2285	ASN
1	C	2427	GLN
1	C	2459	GLN
1	C	2497	GLN
1	C	2505	ASN
1	D	102	GLN
1	D	130	HIS
1	D	511	GLN
1	D	573	ASN
1	D	618	ASN
1	D	751	HIS
1	D	858	HIS
1	D	875	ASN
1	D	1180	GLN
1	D	1284	ASN
1	D	1293	GLN
1	D	1304	ASN
1	D	1361	HIS
1	D	1449	ASN
1	D	1529	ASN
1	D	1531	GLN
1	D	1672	ASN
1	D	1700	ASN
1	D	2042	ASN
1	D	2047	GLN
1	D	2058	ASN
1	D	2252	ASN
1	D	2285	ASN
1	D	2459	GLN
1	D	2497	GLN
1	D	2505	ASN
1	E	102	GLN
1	E	130	HIS
1	E	240	ASN
1	E	486	GLN
1	E	511	GLN
1	E	573	ASN
1	E	618	ASN

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Mol	Chain	Res	Type
1	E	751	HIS
1	E	852	GLN
1	E	858	HIS
1	E	875	ASN
1	E	1053	GLN
1	E	1284	ASN
1	E	1293	GLN
1	E	1304	ASN
1	E	1361	HIS
1	E	1449	ASN
1	E	1520	GLN
1	E	1531	GLN
1	E	1672	ASN
1	E	1917	ASN
1	E	2042	ASN
1	E	2047	GLN
1	E	2058	ASN
1	E	2112	ASN
1	E	2252	ASN
1	E	2285	ASN
1	E	2459	GLN
1	E	2497	GLN
1	E	2505	ASN

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 ⓘ

There are no ligands in this entry.

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.

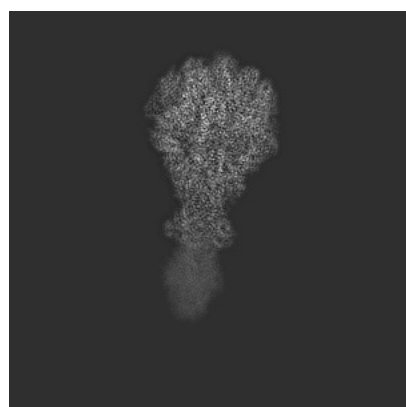
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-0843. These allow visual inspection of the internal detail of the map and identification of artifacts.

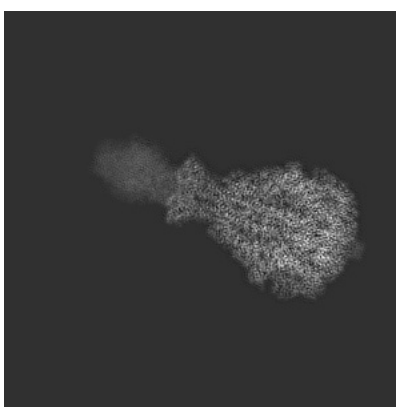
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

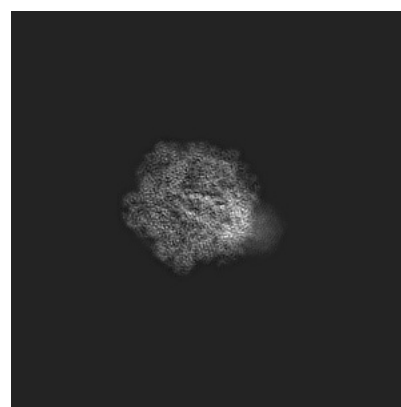
6.1.1 Primary map



X



Y



Z

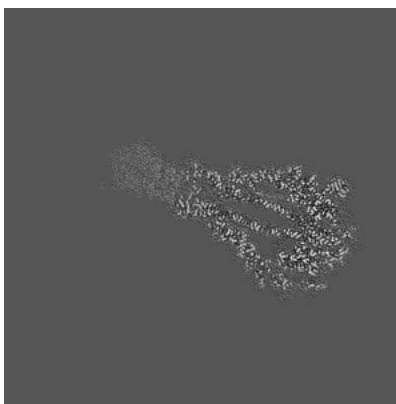
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

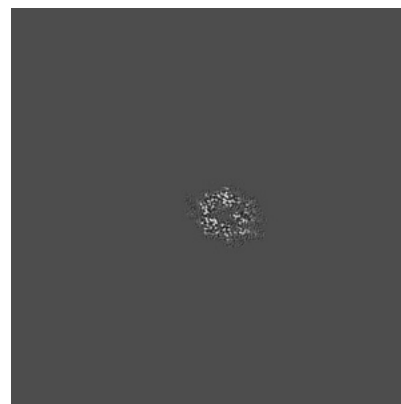
6.2.1 Primary map



X Index: 190



Y Index: 190



Z Index: 190

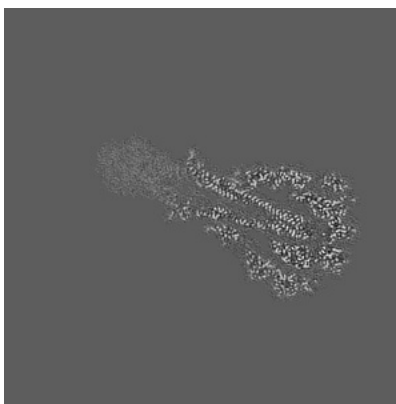
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

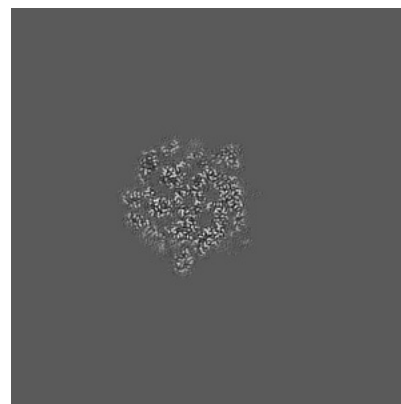
6.3.1 Primary map



X Index: 187



Y Index: 184

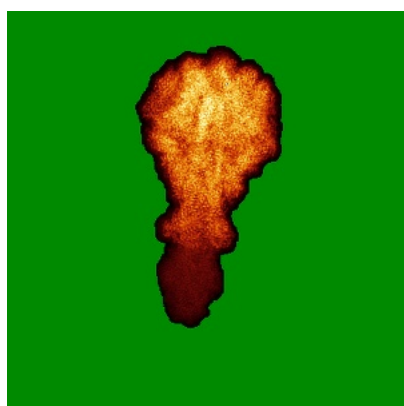


Z Index: 288

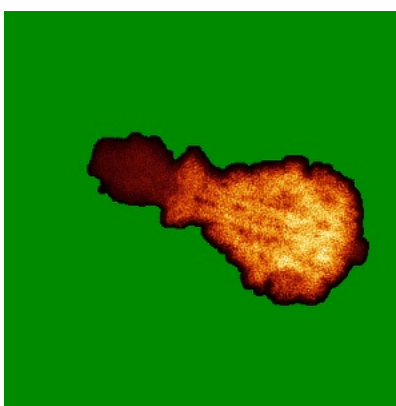
The images above show the largest variance slices of the map in three orthogonal directions.

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

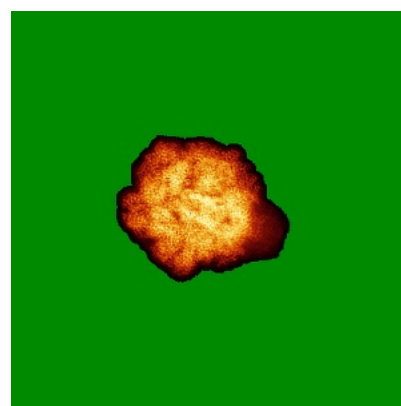
6.4.1 Primary map



X



Y

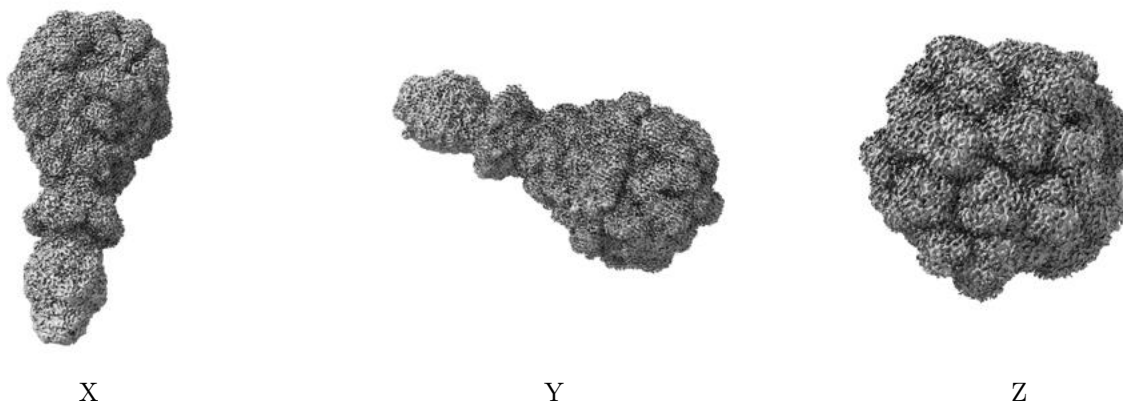


Z

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

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.005. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

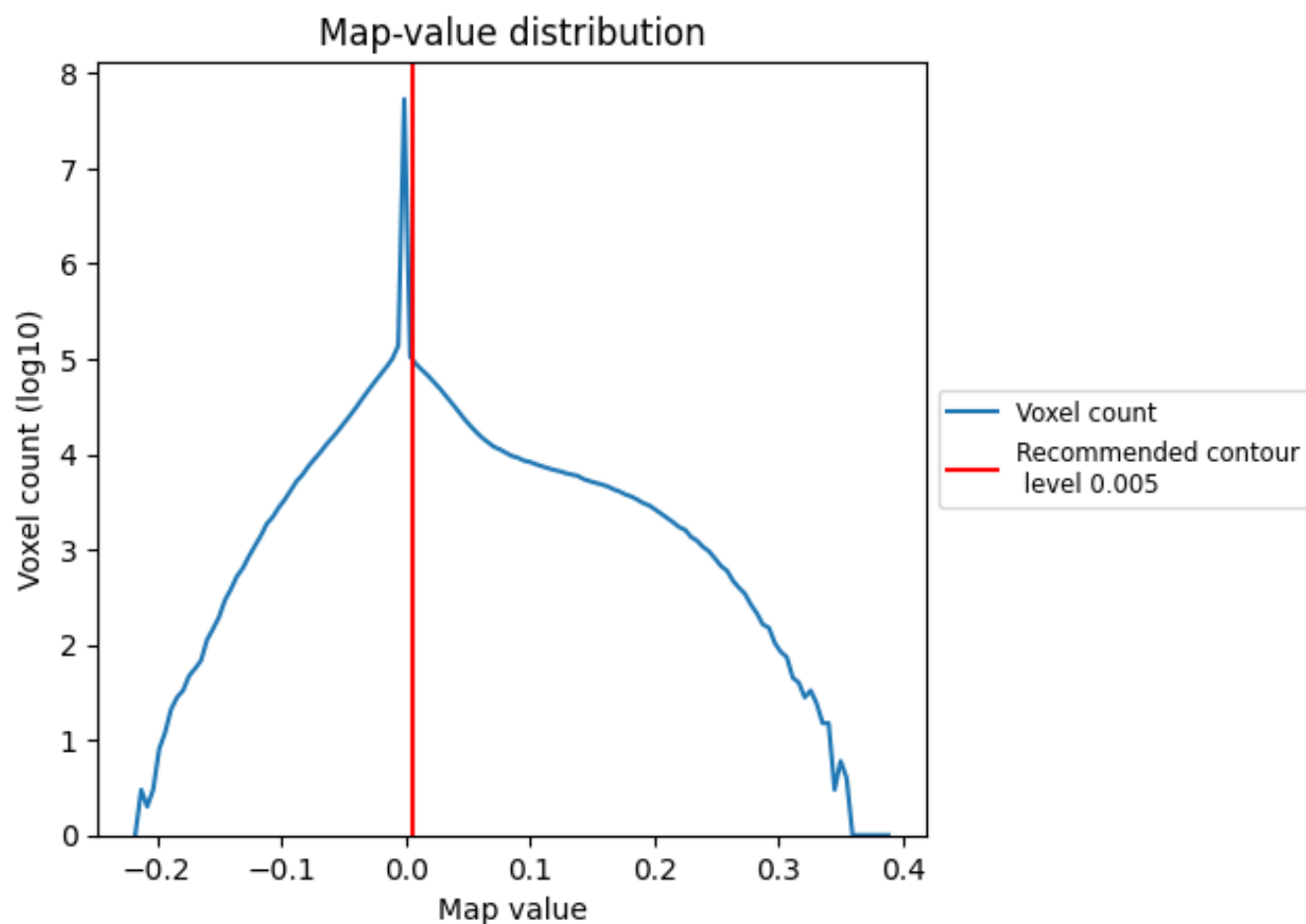
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

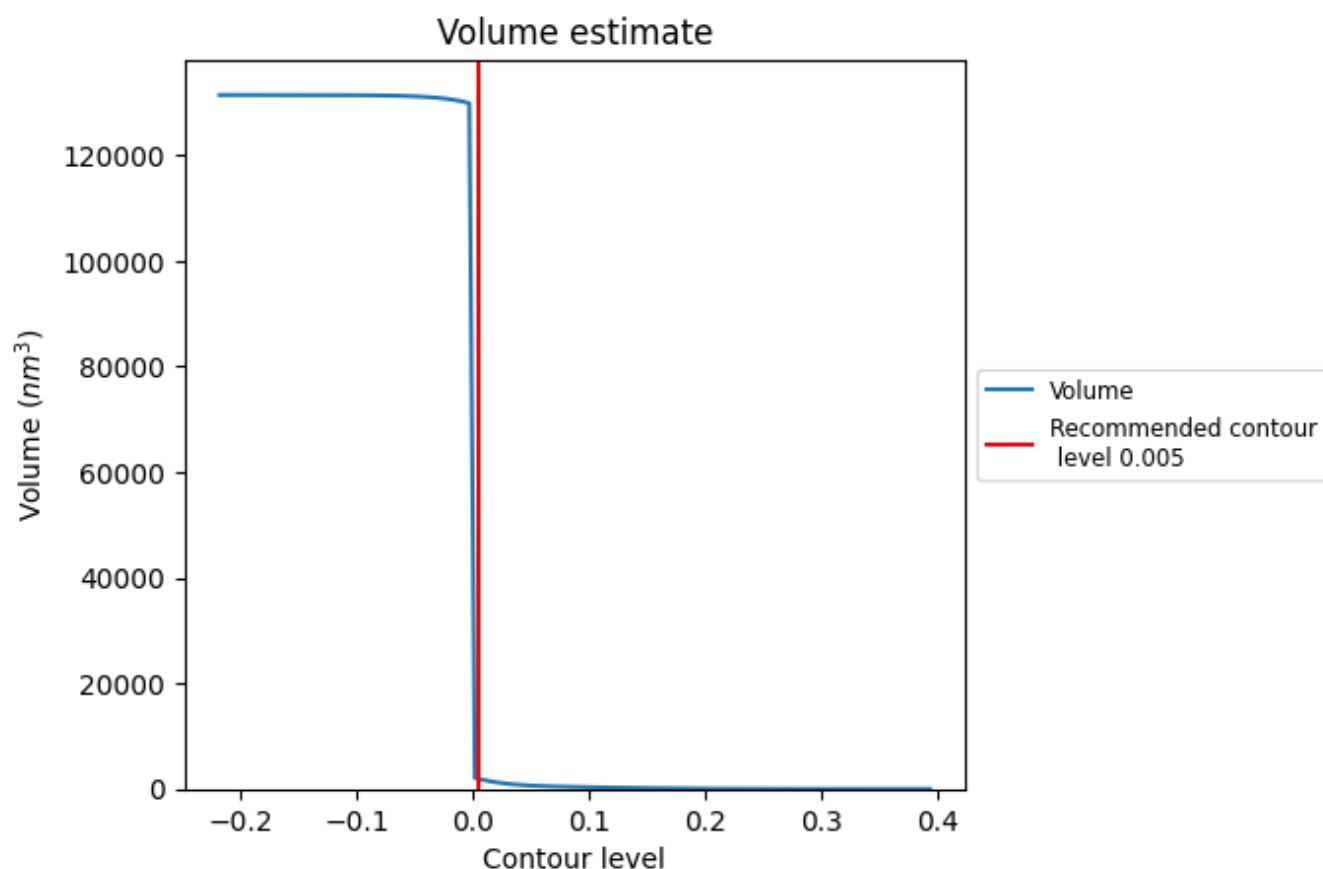
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

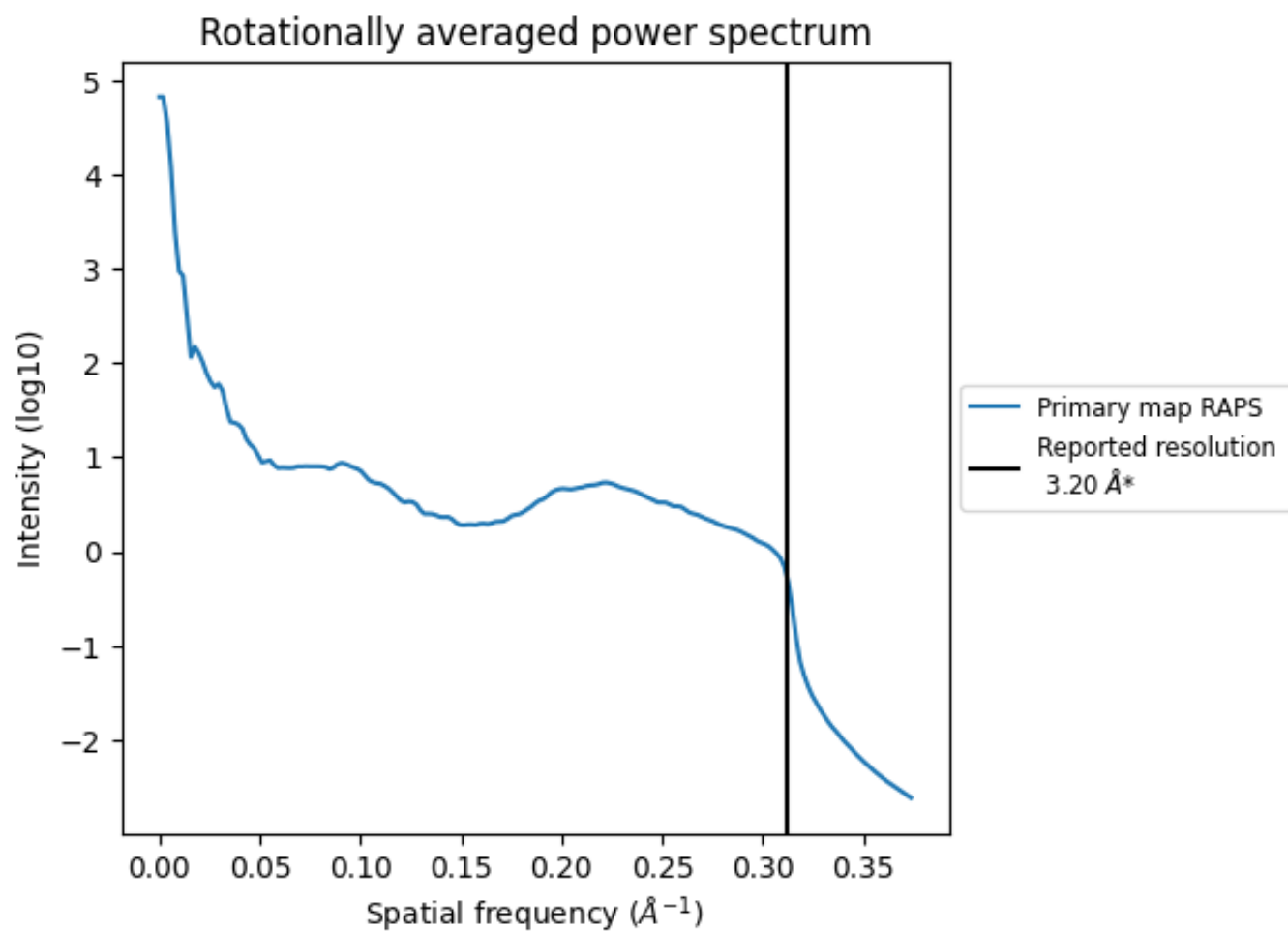
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1916 nm^3 ; this corresponds to an approximate mass of 1731 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.312 Å⁻¹

8 Fourier-Shell correlation ⓘ

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

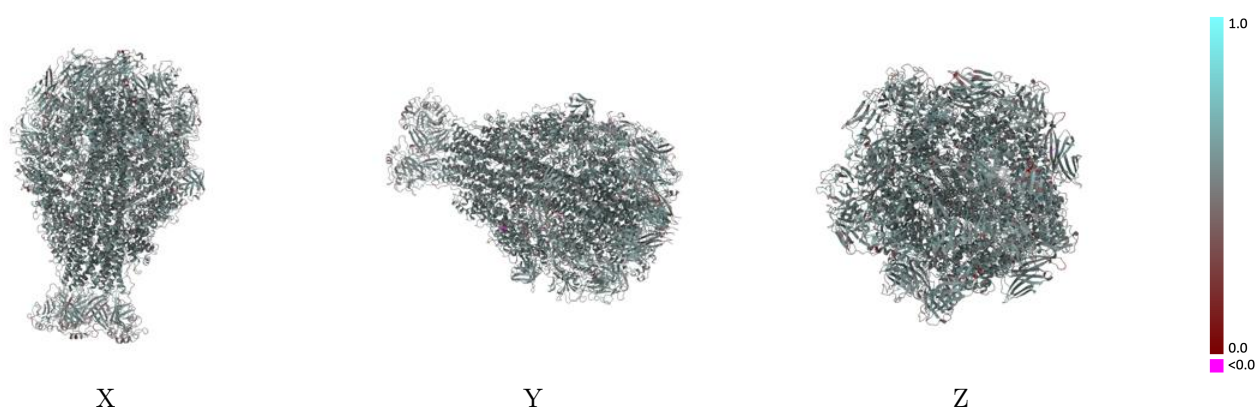
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-0843 and PDB model 6L7E. Per-residue inclusion information can be found in section 3 on page 5.

9.1 Map-model overlay [i](#)

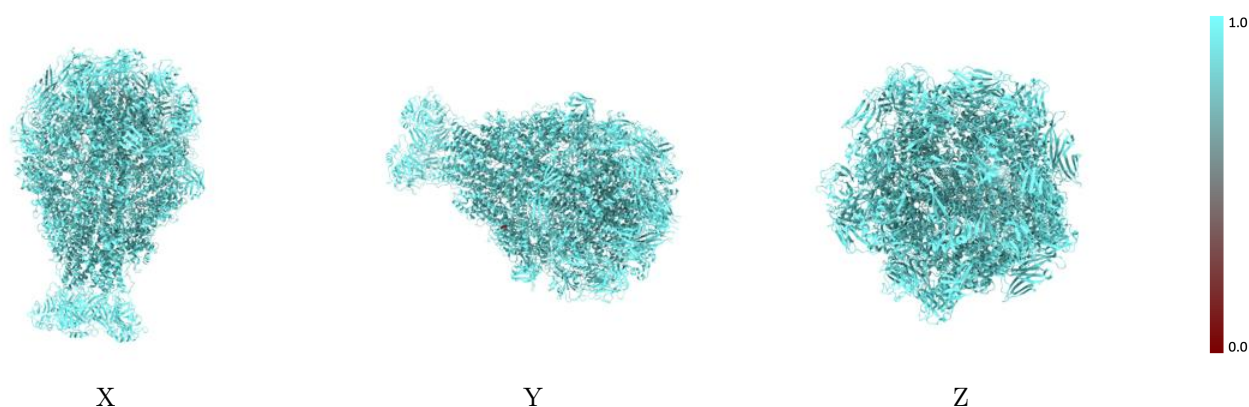
This section was not generated.

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



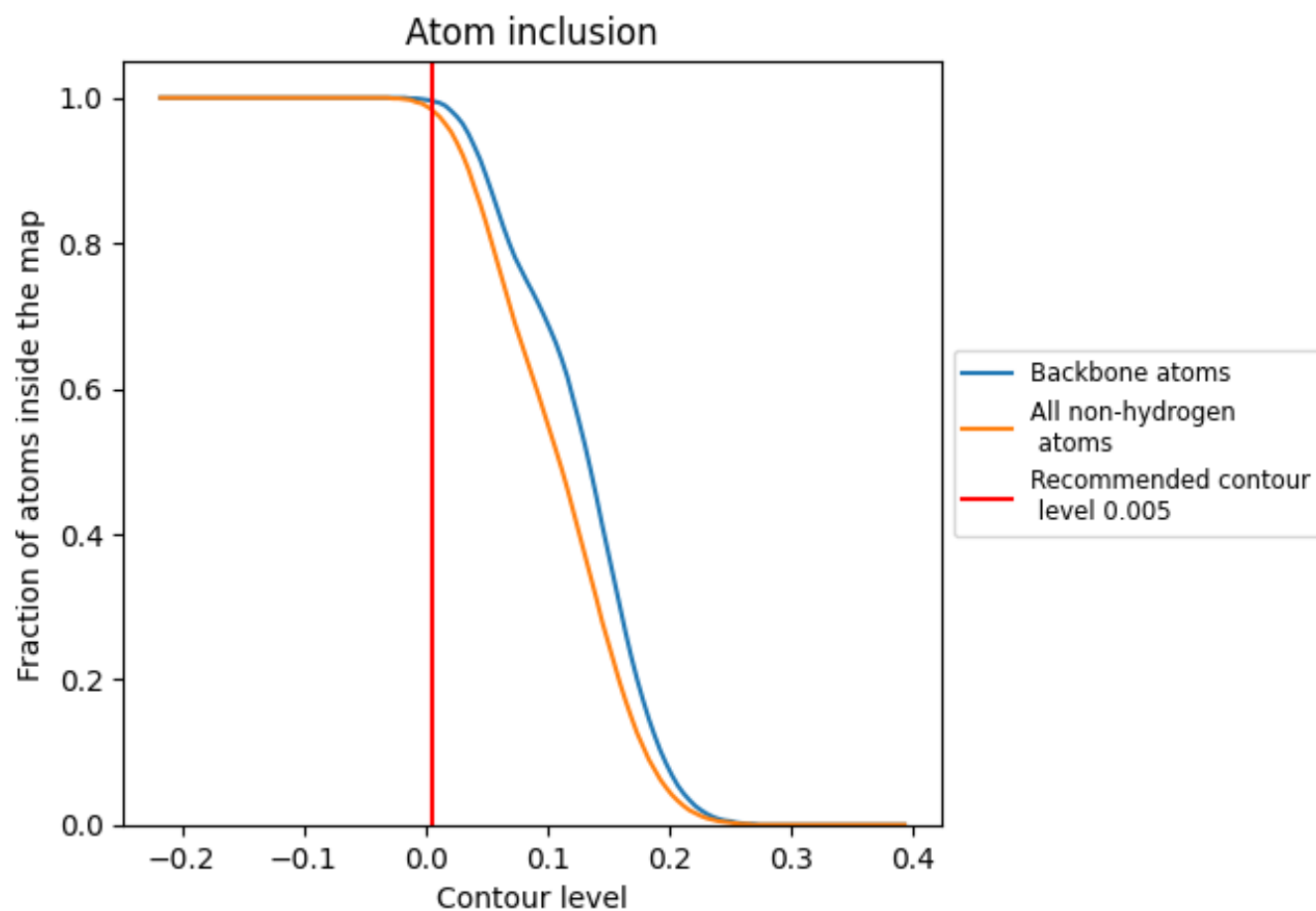
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.005).

9.4 Atom inclusion [i](#)



At the recommended contour level, 100% of all backbone atoms, 98% 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 (0.005) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9840	0.5260
A	0.9870	0.5320
B	0.9810	0.5210
C	0.9850	0.5250
D	0.9830	0.5260
E	0.9830	0.5270

