



Full wwPDB EM Validation Report ⓘ

Mar 7, 2026 – 04:47 AM UTC

PDB ID : 5FXH / pdb_00005fxh
EMDB ID : EMD-3353
Title : GluN1b-GluN2B NMDA receptor in non-active-1 conformation
Authors : Tajima, N.; Karakas, E.; Grant, T.; Simorowski, N.; Diaz-Avalos, R.; Grigorieff, N.; Furukawa, H.
Deposited on : 2016-03-02
Resolution : 5.00 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:

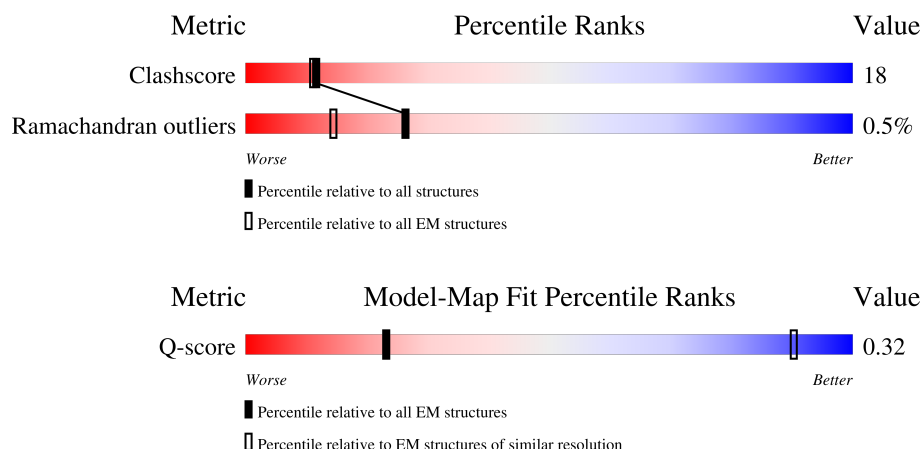
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & 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 5.00 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	-
Q-score	-	25397	1057 (4.50 - 5.50)

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	846	 5% 72% 20% 7%
1	C	846	 5% 71% 20% 8%
2	B	827	 6% 74% 18% 8%
2	D	827	 5% 74% 17% 9%

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 15185 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 N-METHYL-D-ASPARTATE RECEPTOR GLUN1.

Mol	Chain	Residues	Atoms				AltConf	Trace
1	A	783	Total	C	N	O	0	0
			3865	2299	783	783		
1	C	777	Total	C	N	O	0	0
			3835	2281	777	777		

There are 28 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	61	GLN	ASN	engineered mutation	UNP P35439
A	260	ASP	ASN	engineered mutation	UNP P35439
A	371	GLN	ASN	engineered mutation	UNP P35439
A	492	GLN	ASN	engineered mutation	UNP P35439
A	512	GLN	ASN	engineered mutation	UNP P35439
A	615	GLN	GLU	engineered mutation	UNP P35439
A	616	SER	GLU	engineered mutation	UNP P35439
A	618	SER	GLU	engineered mutation	UNP P35439
A	619	THR	GLU	engineered mutation	UNP P35439
A	792	GLN	ASN	engineered mutation	UNP P35439
A	831	CYS	PHE	engineered mutation	UNP P35439
A	865	ASN	ARG	engineered mutation	UNP P35439
A	866	GLY	ARG	engineered mutation	UNP P35439
A	867	ALA	LYS	engineered mutation	UNP P35439
C	61	GLN	ASN	engineered mutation	UNP P35439
C	260	ASP	ASN	engineered mutation	UNP P35439
C	371	GLN	ASN	engineered mutation	UNP P35439
C	492	GLN	ASN	engineered mutation	UNP P35439
C	512	GLN	ASN	engineered mutation	UNP P35439
C	615	GLN	GLU	engineered mutation	UNP P35439
C	616	SER	GLU	engineered mutation	UNP P35439
C	618	SER	GLU	engineered mutation	UNP P35439
C	619	THR	GLU	engineered mutation	UNP P35439
C	792	GLN	ASN	engineered mutation	UNP P35439
C	831	CYS	PHE	engineered mutation	UNP P35439
C	865	ASN	ARG	engineered mutation	UNP P35439

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Chain	Residue	Modelled	Actual	Comment	Reference
C	866	GLY	ARG	engineered mutation	UNP P35439
C	867	ALA	LYS	engineered mutation	UNP P35439

- Molecule 2 is a protein called N-METHYL-D-ASPARTATE RECEPTOR GLUN2B.

Mol	Chain	Residues	Atoms				AltConf	Trace
2	B	763	Total	C	N	O	0	0
			3765	2239	763	763		
2	D	754	Total	C	N	O	0	0
			3720	2212	754	754		

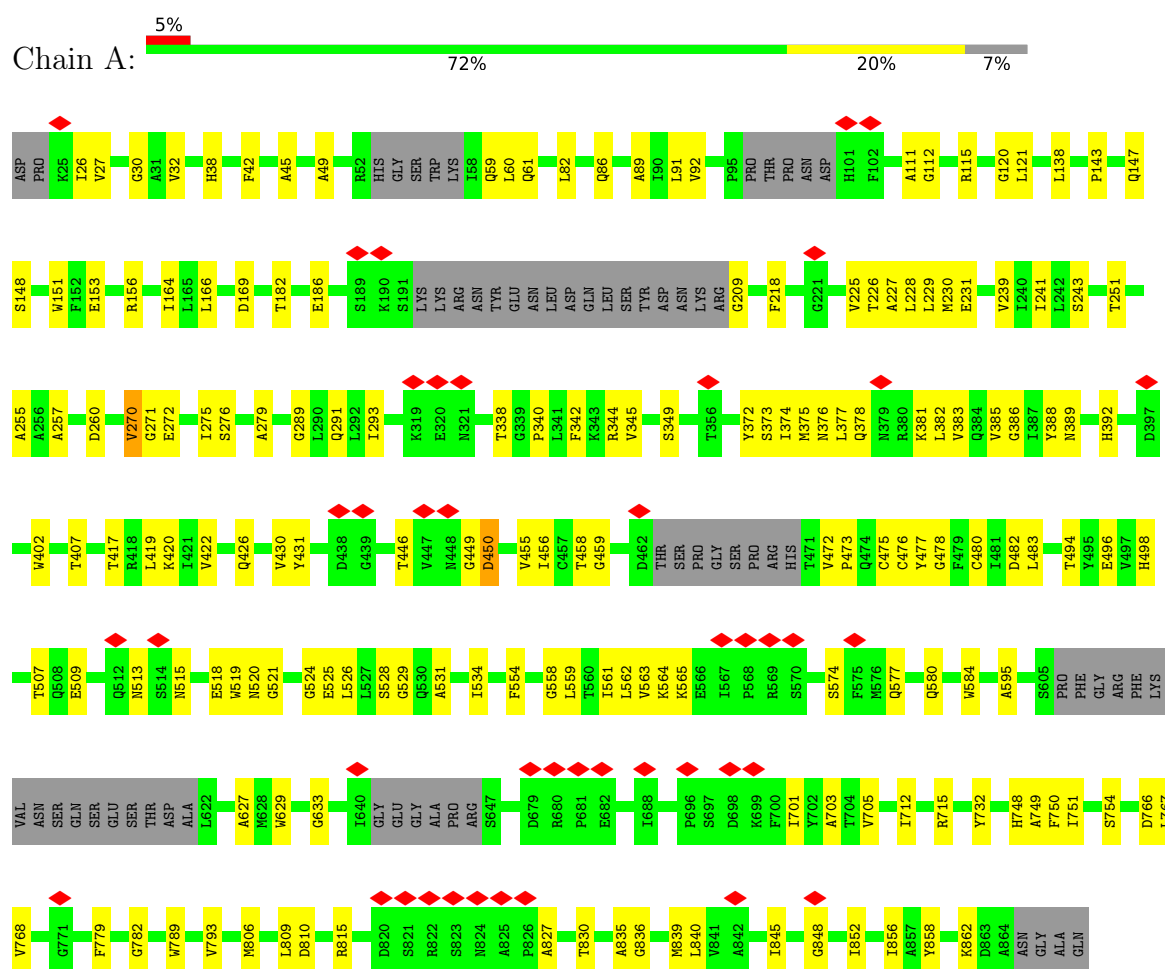
There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	26	GLY	-	expression tag	UNP Q00960
B	348	ASP	ASN	engineered mutation	UNP Q00960
B	557	CYS	ASP	engineered mutation	UNP Q00960
B	588	SER	CYS	engineered mutation	UNP Q00960
B	838	SER	CYS	engineered mutation	UNP Q00960
B	849	SER	CYS	engineered mutation	UNP Q00960
D	26	GLY	-	expression tag	UNP Q00960
D	348	ASP	ASN	engineered mutation	UNP Q00960
D	557	CYS	ASP	engineered mutation	UNP Q00960
D	588	SER	CYS	engineered mutation	UNP Q00960
D	838	SER	CYS	engineered mutation	UNP Q00960
D	849	SER	CYS	engineered mutation	UNP Q00960

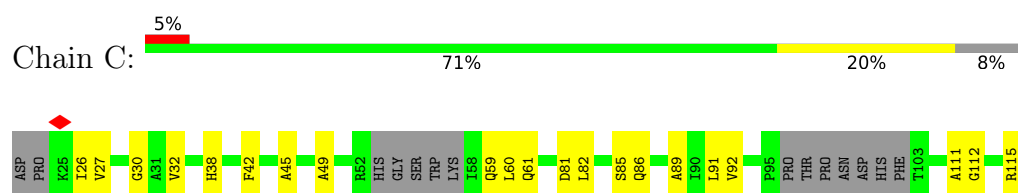
3 Residue-property plots

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

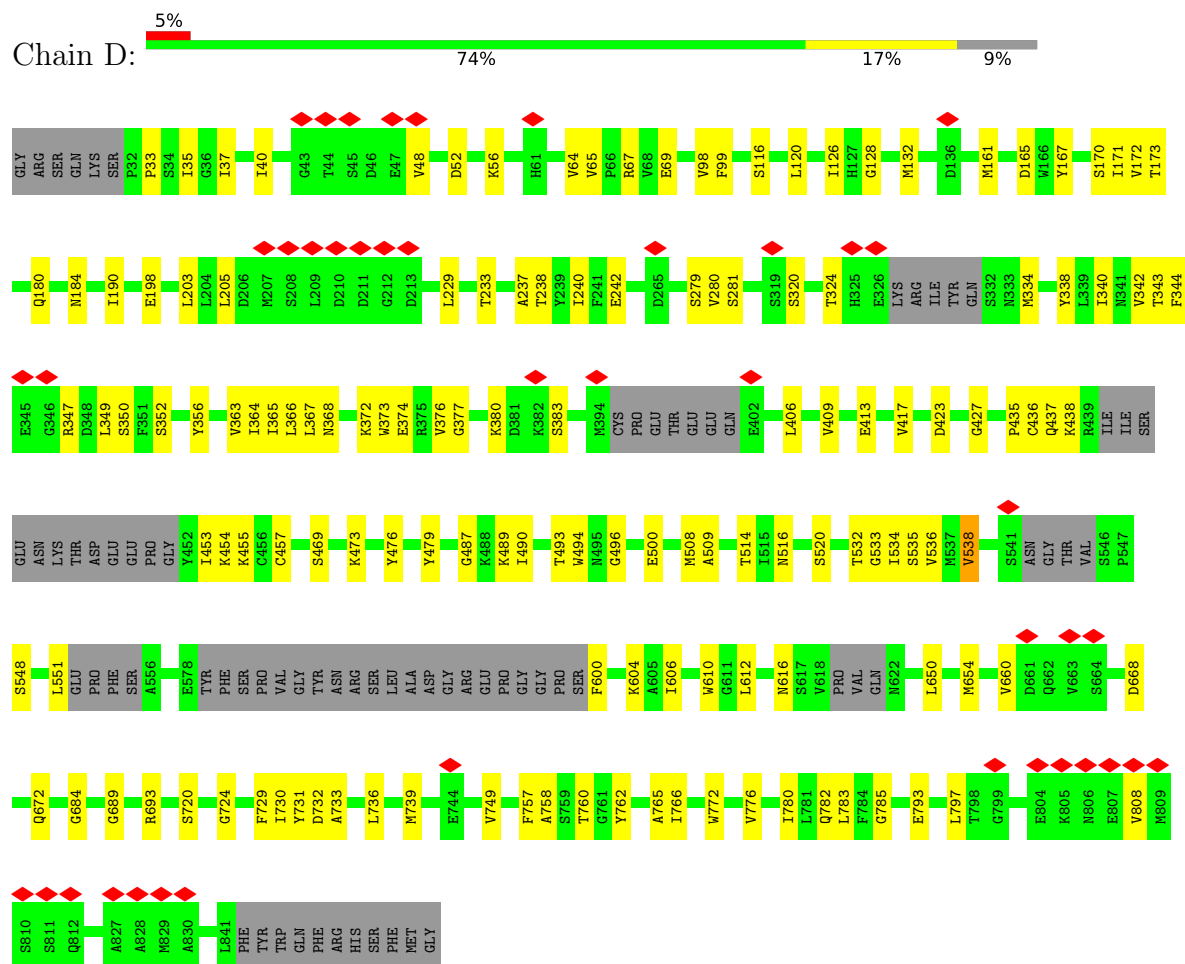
• Molecule 1: N-METHYL-D-ASPARTATE RECEPTOR GLUN1



• Molecule 1: N-METHYL-D-ASPARTATE RECEPTOR GLUN1



• Molecule 2: N-METHYL-D-ASPARTATE RECEPTOR GLUN2B



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C2	Depositor
Number of particles used	15000	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	Not provided	
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	100	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	2500	Depositor
Magnification	38168	Depositor
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.094	Depositor
Minimum map value	-0.017	Depositor
Average map value	-0.001	Depositor
Map value standard deviation	0.007	Depositor
Recommended contour level	0.045	Depositor
Map size ($\text{\AA}$)	335.36, 335.36, 335.36	wwPDB
Map dimensions	256, 256, 256	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.31, 1.31, 1.31	Depositor

5 Model quality

5.1 Standard geometry

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	0.35	2/3858 (0.1%)	0.38	0/5360
1	C	0.35	2/3828 (0.1%)	0.38	0/5318
2	B	0.23	0/3759	0.40	0/5223
2	D	0.23	0/3712	0.40	0/5154
All	All	0.30	4/15157 (0.0%)	0.39	0/21055

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
1	C	0	1
2	B	0	1
All	All	0	3

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	450	ASP	C-N	-13.58	1.02	1.33
1	A	450	ASP	C-N	-13.56	1.02	1.33
1	A	209	GLY	C-N	-8.83	1.13	1.33
1	C	209	GLY	C-N	-8.80	1.13	1.33

There are no bond angle outliers.

There are no chirality outliers.

All (3) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	389	ASN	Peptide
2	B	620	VAL	Peptide

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Mol	Chain	Res	Type	Group
1	C	389	ASN	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	3865	0	1750	107	0
1	C	3835	0	1735	108	0
2	B	3765	0	1682	90	0
2	D	3720	0	1663	85	0
All	All	15185	0	6830	390	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 (390) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:668:ASP:H	2:B:672:GLN:H	1.18	0.88
2:D:668:ASP:H	2:D:672:GLN:H	1.18	0.85
1:C:251:THR:O	1:C:255:ALA:HB2	1.82	0.79
1:A:251:THR:O	1:A:255:ALA:HB2	1.82	0.78
2:B:413:GLU:O	2:B:417:VAL:N	2.18	0.77
2:D:423:ASP:O	2:D:427:GLY:N	2.17	0.77
2:D:413:GLU:O	2:D:417:VAL:N	2.18	0.77
2:B:423:ASP:O	2:B:427:GLY:N	2.17	0.75
2:B:516:ASN:O	2:B:520:SER:N	2.15	0.74
2:D:668:ASP:O	2:D:672:GLN:N	2.21	0.74
2:B:509:ALA:N	2:B:765:ALA:O	2.20	0.74
1:C:701:ILE:O	1:C:749:ALA:N	2.21	0.73
2:D:516:ASN:O	2:D:520:SER:N	2.15	0.73
2:B:668:ASP:O	2:B:672:GLN:N	2.21	0.73
2:B:490:ILE:N	2:B:493:THR:O	2.17	0.72
1:A:701:ILE:O	1:A:749:ALA:N	2.21	0.72
1:C:521:GLY:O	1:C:525:GLU:N	2.19	0.72
1:A:554:PHE:N	1:A:779:PHE:O	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:509:ALA:N	2:D:765:ALA:O	2.20	0.71
2:B:496:GLY:O	2:B:500:GLU:N	2.21	0.71
2:B:37:ILE:O	2:B:69:GLU:N	2.25	0.70
2:D:650:LEU:O	2:D:654:MET:CB	2.40	0.70
1:C:554:PHE:N	1:C:779:PHE:O	2.23	0.70
2:D:532:THR:N	2:D:760:THR:O	2.23	0.70
1:A:378:GLN:N	1:A:381:LYS:O	2.22	0.70
2:B:650:LEU:O	2:B:654:MET:CB	2.40	0.69
1:C:562:LEU:N	1:C:750:PHE:O	2.26	0.69
2:B:532:THR:N	2:B:760:THR:O	2.23	0.69
2:D:37:ILE:O	2:D:69:GLU:N	2.25	0.69
1:A:562:LEU:N	1:A:750:PHE:O	2.26	0.69
2:B:509:ALA:HB3	2:B:765:ALA:H	1.58	0.69
2:D:490:ILE:N	2:D:493:THR:O	2.17	0.69
2:B:366:LEU:O	2:B:374:GLU:N	2.19	0.69
1:A:376:ASN:O	1:A:383:VAL:N	2.21	0.69
1:A:291:GLN:O	1:A:373:SER:N	2.26	0.68
1:C:374:ILE:N	1:C:386:GLY:O	2.26	0.68
2:D:496:GLY:O	2:D:500:GLU:N	2.21	0.68
2:B:732:ASP:O	2:B:736:LEU:N	2.26	0.68
1:C:291:GLN:O	1:C:373:SER:N	2.26	0.68
1:C:559:LEU:HA	1:C:754:SER:H	1.59	0.68
1:A:374:ILE:N	1:A:386:GLY:O	2.26	0.67
2:D:366:LEU:O	2:D:374:GLU:N	2.19	0.67
1:A:375:MET:HA	1:A:385:VAL:H	1.59	0.67
1:A:521:GLY:O	1:A:525:GLU:N	2.19	0.67
2:B:720:SER:O	2:B:724:GLY:N	2.27	0.67
2:D:509:ALA:HB3	2:D:765:ALA:H	1.58	0.67
1:A:559:LEU:HA	1:A:754:SER:H	1.59	0.67
1:C:293:ILE:H	1:C:372:TYR:HA	1.60	0.66
2:B:538:VAL:O	2:B:749:VAL:N	2.18	0.66
1:A:402:TRP:H	1:A:407:THR:HA	1.59	0.66
2:D:538:VAL:O	2:D:749:VAL:N	2.18	0.66
1:C:402:TRP:H	1:C:407:THR:HA	1.59	0.66
1:A:564:LYS:HA	1:A:767:LEU:HA	1.78	0.66
2:D:720:SER:O	2:D:724:GLY:N	2.28	0.66
2:B:772:TRP:O	2:B:776:VAL:N	2.26	0.66
1:C:375:MET:HA	1:C:385:VAL:H	1.59	0.66
2:B:689:GLY:O	2:B:693:ARG:N	2.28	0.66
1:A:293:ILE:H	1:A:372:TYR:HA	1.60	0.65
2:B:352:SER:N	2:B:356:TYR:O	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:225:VAL:O	1:A:229:LEU:N	2.27	0.65
1:C:458:THR:HA	1:C:473:PRO:HA	1.79	0.65
1:A:558:GLY:O	1:A:754:SER:N	2.29	0.65
1:C:836:GLY:O	1:C:840:LEU:CB	2.45	0.65
2:D:533:GLY:O	2:D:733:ALA:N	2.23	0.65
1:C:227:ALA:O	1:C:231:GLU:CB	2.45	0.65
2:D:364:ILE:O	2:D:376:VAL:N	2.30	0.65
1:C:525:GLU:O	1:C:529:GLY:N	2.30	0.65
1:A:836:GLY:O	1:A:840:LEU:CB	2.45	0.64
1:C:272:GLU:O	1:C:276:SER:N	2.25	0.64
1:C:478:GLY:O	1:C:482:ASP:N	2.27	0.64
1:C:564:LYS:HA	1:C:767:LEU:HA	1.78	0.64
1:A:272:GLU:O	1:A:276:SER:N	2.25	0.64
1:A:848:GLY:O	1:A:852:ILE:CB	2.46	0.64
2:D:437:GLN:HA	2:D:454:LYS:HA	1.80	0.64
2:D:469:SER:O	2:D:473:LYS:N	2.31	0.64
1:A:227:ALA:O	1:A:231:GLU:CB	2.45	0.64
2:B:533:GLY:O	2:B:733:ALA:N	2.23	0.64
2:D:732:ASP:O	2:D:736:LEU:N	2.26	0.64
1:C:378:GLN:N	1:C:381:LYS:O	2.22	0.64
2:D:772:TRP:O	2:D:776:VAL:N	2.26	0.64
1:A:45:ALA:O	1:A:49:ALA:HB2	1.99	0.63
1:C:558:GLY:O	1:C:754:SER:N	2.30	0.63
1:A:525:GLU:O	1:A:529:GLY:N	2.30	0.63
2:D:689:GLY:O	2:D:693:ARG:N	2.28	0.63
2:B:437:GLN:HA	2:B:454:LYS:HA	1.80	0.63
1:C:376:ASN:O	1:C:383:VAL:N	2.21	0.63
1:C:858:TYR:O	1:C:862:LYS:CB	2.46	0.63
1:A:458:THR:HA	1:A:473:PRO:HA	1.79	0.63
1:A:858:TYR:O	1:A:862:LYS:CB	2.46	0.63
2:D:180:GLN:O	2:D:184:ASN:CB	2.47	0.63
1:C:848:GLY:O	1:C:852:ILE:CB	2.46	0.63
1:C:45:ALA:O	1:C:49:ALA:HB2	1.99	0.63
2:B:469:SER:O	2:B:473:LYS:N	2.31	0.62
1:C:629:TRP:O	1:C:633:GLY:HA3	1.99	0.62
1:A:120:GLY:N	1:A:138:LEU:O	2.28	0.62
2:B:180:GLN:O	2:B:184:ASN:CB	2.47	0.62
2:D:435:PRO:HA	2:D:457:CYS:H	1.64	0.62
1:A:478:GLY:O	1:A:482:ASP:N	2.27	0.62
1:A:629:TRP:O	1:A:633:GLY:HA3	1.99	0.62
1:C:225:VAL:O	1:C:229:LEU:N	2.27	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:435:PRO:HA	2:B:457:CYS:H	1.64	0.62
2:D:380:LYS:N	2:D:383:SER:O	2.32	0.62
2:B:343:THR:HA	2:B:349:LEU:H	1.65	0.62
2:B:364:ILE:O	2:B:376:VAL:N	2.30	0.62
2:D:172:VAL:N	2:D:229:LEU:O	2.31	0.62
2:B:380:LYS:N	2:B:383:SER:O	2.33	0.61
2:D:161:MET:O	2:D:165:ASP:N	2.33	0.61
2:B:172:VAL:N	2:B:229:LEU:O	2.31	0.61
2:B:167:TYR:O	2:B:198:GLU:N	2.34	0.61
1:C:169:ASP:H	1:C:218:PHE:C	2.09	0.61
1:C:705:VAL:HA	1:C:732:TYR:H	1.66	0.61
2:D:367:LEU:HA	2:D:373:TRP:HA	1.83	0.60
2:D:684:GLY:O	2:D:730:ILE:N	2.34	0.60
2:D:167:TYR:O	2:D:198:GLU:N	2.34	0.60
1:A:169:ASP:H	1:A:218:PHE:C	2.09	0.60
2:B:409:VAL:HA	2:B:479:TYR:O	2.02	0.60
2:B:684:GLY:O	2:B:730:ILE:N	2.34	0.60
1:C:120:GLY:N	1:C:138:LEU:O	2.28	0.60
2:B:161:MET:O	2:B:165:ASP:N	2.33	0.60
2:D:343:THR:HA	2:D:349:LEU:H	1.65	0.60
1:A:705:VAL:HA	1:A:732:TYR:H	1.66	0.60
2:D:116:SER:O	2:D:120:LEU:N	2.35	0.60
2:B:367:LEU:HA	2:B:373:TRP:HA	1.83	0.60
1:C:27:VAL:H	1:C:60:LEU:HA	1.67	0.59
1:C:509:GLU:N	1:C:518:GLU:O	2.35	0.59
1:A:534:ILE:O	1:A:782:GLY:N	2.28	0.59
2:D:409:VAL:HA	2:D:479:TYR:O	2.01	0.59
2:D:535:SER:O	2:D:731:TYR:N	2.34	0.58
1:A:27:VAL:H	1:A:60:LEU:HA	1.67	0.58
1:A:374:ILE:O	1:A:385:VAL:N	2.36	0.58
1:A:509:GLU:N	1:A:518:GLU:O	2.35	0.58
1:C:374:ILE:O	1:C:385:VAL:N	2.36	0.58
2:B:116:SER:O	2:B:120:LEU:N	2.35	0.58
1:A:789:TRP:O	1:A:793:VAL:CB	2.52	0.58
1:A:426:GLN:O	1:A:430:VAL:N	2.26	0.58
1:C:789:TRP:O	1:C:793:VAL:CB	2.52	0.57
2:B:438:LYS:O	2:B:453:ILE:N	2.36	0.57
2:B:736:LEU:O	2:B:739:MET:N	2.37	0.57
1:A:251:THR:O	1:A:255:ALA:CB	2.51	0.57
2:B:364:ILE:N	2:B:377:GLY:O	2.31	0.57
2:D:438:LYS:N	2:D:453:ILE:O	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:736:LEU:O	2:D:739:MET:N	2.37	0.57
2:B:171:ILE:O	2:B:203:LEU:N	2.30	0.57
1:C:534:ILE:O	1:C:782:GLY:N	2.28	0.57
2:D:438:LYS:O	2:D:453:ILE:N	2.36	0.57
2:D:170:SER:O	2:D:229:LEU:N	2.37	0.57
2:D:352:SER:N	2:D:356:TYR:O	2.26	0.57
1:A:32:VAL:N	1:A:91:LEU:O	2.36	0.56
2:B:170:SER:O	2:B:229:LEU:N	2.37	0.56
2:B:438:LYS:N	2:B:453:ILE:O	2.37	0.56
1:C:251:THR:O	1:C:255:ALA:CB	2.51	0.56
1:C:559:LEU:HA	1:C:754:SER:N	2.21	0.56
2:D:342:VAL:O	2:D:350:SER:N	2.39	0.56
1:A:559:LEU:HA	1:A:754:SER:N	2.21	0.56
2:D:364:ILE:N	2:D:377:GLY:O	2.31	0.56
1:C:526:LEU:C	1:C:529:GLY:H	2.15	0.55
2:D:436:CYS:O	2:D:455:LYS:N	2.30	0.55
2:B:782:GLN:O	2:B:785:GLY:N	2.39	0.55
2:D:35:ILE:O	2:D:67:ARG:N	2.31	0.55
1:C:226:THR:O	1:C:230:MET:CB	2.55	0.55
2:D:782:GLN:O	2:D:785:GLY:N	2.39	0.55
2:B:342:VAL:O	2:B:350:SER:N	2.39	0.54
2:B:487:GLY:HA2	2:B:496:GLY:HA3	1.88	0.54
1:A:810:ASP:O	1:A:815:ARG:N	2.38	0.54
1:A:827:ALA:O	1:A:830:THR:N	2.41	0.54
1:A:226:THR:O	1:A:230:MET:CB	2.55	0.54
2:B:668:ASP:H	2:B:672:GLN:N	1.99	0.54
1:C:827:ALA:O	1:C:830:THR:N	2.41	0.54
2:D:487:GLY:HA2	2:D:496:GLY:HA3	1.88	0.54
1:C:810:ASP:O	1:C:815:ARG:N	2.38	0.54
1:C:340:PRO:O	1:C:344:ARG:CB	2.56	0.54
1:C:377:LEU:HA	1:C:382:LEU:HA	1.90	0.54
1:A:526:LEU:C	1:A:529:GLY:H	2.15	0.54
2:B:606:ILE:O	2:B:610:TRP:CB	2.56	0.54
1:C:166:LEU:O	1:C:243:SER:N	2.41	0.54
1:A:377:LEU:HA	1:A:382:LEU:HA	1.90	0.53
2:B:612:LEU:HA	2:B:616:ASN:H	1.72	0.53
1:A:166:LEU:O	1:A:243:SER:N	2.41	0.53
1:A:340:PRO:O	1:A:344:ARG:CB	2.56	0.53
1:A:388:TYR:HA	1:A:392:HIS:O	2.09	0.53
2:B:536:VAL:HA	2:B:729:PHE:O	2.08	0.53
1:C:164:ILE:O	1:C:241:ILE:N	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:345:VAL:O	1:C:349:SER:N	2.42	0.53
1:C:388:TYR:HA	1:C:392:HIS:O	2.09	0.53
2:B:535:SER:O	2:B:731:TYR:N	2.34	0.53
2:D:536:VAL:HA	2:D:729:PHE:O	2.08	0.53
1:A:345:VAL:O	1:A:349:SER:N	2.42	0.53
1:A:375:MET:HA	1:A:385:VAL:N	2.24	0.53
2:D:606:ILE:O	2:D:610:TRP:CB	2.56	0.53
1:C:426:GLN:O	1:C:430:VAL:N	2.26	0.53
2:D:612:LEU:HA	2:D:616:ASN:H	1.72	0.53
1:A:164:ILE:O	1:A:241:ILE:N	2.24	0.52
2:B:48:VAL:O	2:B:52:ASP:CB	2.58	0.52
1:C:111:ALA:O	1:C:115:ARG:N	2.42	0.52
2:D:37:ILE:N	2:D:67:ARG:O	2.18	0.52
2:D:171:ILE:O	2:D:203:LEU:N	2.30	0.52
1:A:111:ALA:O	1:A:115:ARG:N	2.42	0.52
2:B:35:ILE:N	2:B:65:VAL:O	2.37	0.52
2:B:334:MET:O	2:B:338:TYR:N	2.32	0.52
2:B:438:LYS:H	2:B:453:ILE:H	1.58	0.52
2:D:233:THR:O	2:D:237:ALA:N	2.42	0.52
1:A:580:GLN:O	1:A:584:TRP:N	2.34	0.52
2:D:668:ASP:H	2:D:672:GLN:N	1.99	0.52
1:A:561:ILE:HA	1:A:751:ILE:HA	1.92	0.52
2:B:233:THR:O	2:B:237:ALA:N	2.42	0.52
1:C:375:MET:HA	1:C:385:VAL:N	2.24	0.52
1:C:417:THR:O	1:C:494:THR:N	2.42	0.52
2:D:35:ILE:N	2:D:65:VAL:O	2.37	0.52
2:D:48:VAL:O	2:D:52:ASP:CB	2.58	0.52
1:C:852:ILE:O	1:C:856:ILE:CB	2.58	0.51
1:A:182:THR:O	1:A:186:GLU:CB	2.59	0.51
1:A:852:ILE:O	1:A:856:ILE:CB	2.58	0.51
2:B:436:CYS:O	2:B:455:LYS:N	2.30	0.51
2:D:438:LYS:H	2:D:453:ILE:H	1.58	0.51
2:D:99:PHE:O	2:D:126:ILE:N	2.35	0.51
1:C:182:THR:O	1:C:186:GLU:CB	2.59	0.51
1:C:38:HIS:O	1:C:42:PHE:CB	2.59	0.51
2:B:33:PRO:N	2:B:64:VAL:HA	2.26	0.51
1:C:32:VAL:N	1:C:91:LEU:O	2.35	0.51
1:C:92:VAL:O	1:C:121:LEU:N	2.44	0.51
1:A:38:HIS:O	1:A:42:PHE:CB	2.59	0.51
1:A:455:VAL:N	1:A:476:CYS:O	2.38	0.51
1:C:112:GLY:C	1:C:115:ARG:H	2.19	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:548:SER:O	2:D:551:LEU:N	2.44	0.50
1:A:257:ALA:C	1:A:260:ASP:H	2.20	0.50
1:A:701:ILE:H	1:A:748:HIS:CB	2.24	0.50
2:B:548:SER:O	2:B:551:LEU:N	2.44	0.50
1:C:169:ASP:N	1:C:218:PHE:O	2.29	0.50
1:C:701:ILE:H	1:C:748:HIS:CB	2.25	0.50
2:B:37:ILE:N	2:B:67:ARG:O	2.18	0.50
1:C:561:ILE:HA	1:C:751:ILE:HA	1.92	0.50
2:D:534:ILE:N	2:D:757:PHE:O	2.39	0.50
1:C:30:GLY:N	1:C:89:ALA:O	2.35	0.50
1:A:92:VAL:O	1:A:121:LEU:N	2.44	0.50
1:A:112:GLY:C	1:A:115:ARG:H	2.19	0.50
1:A:565:LYS:N	1:A:766:ASP:O	2.45	0.49
1:C:257:ALA:C	1:C:260:ASP:H	2.20	0.49
1:C:431:TYR:N	1:C:477:TYR:O	2.45	0.49
2:B:35:ILE:O	2:B:67:ARG:N	2.31	0.49
2:D:334:MET:O	2:D:338:TYR:N	2.32	0.49
1:A:169:ASP:N	1:A:218:PHE:O	2.29	0.49
1:A:417:THR:O	1:A:494:THR:N	2.42	0.49
1:C:565:LYS:N	1:C:766:ASP:O	2.45	0.49
1:A:562:LEU:H	1:A:751:ILE:HA	1.78	0.49
2:B:368:ASN:N	2:B:372:LYS:O	2.46	0.49
1:A:26:ILE:HA	1:A:59:GLN:O	2.13	0.49
1:A:431:TYR:N	1:A:477:TYR:O	2.45	0.49
1:C:563:VAL:O	1:C:768:VAL:N	2.31	0.49
2:D:33:PRO:N	2:D:64:VAL:HA	2.26	0.49
2:B:533:GLY:HA2	2:B:758:ALA:O	2.12	0.48
1:C:595:ALA:HB1	1:C:627:ALA:HB1	1.95	0.48
2:D:533:GLY:HA2	2:D:758:ALA:O	2.12	0.48
1:A:595:ALA:HB1	1:A:627:ALA:HB1	1.95	0.48
1:A:164:ILE:N	1:A:239:VAL:O	2.47	0.48
2:B:280:VAL:HA	2:B:364:ILE:HA	1.96	0.48
2:D:368:ASN:N	2:D:372:LYS:O	2.46	0.48
2:B:534:ILE:N	2:B:757:PHE:O	2.39	0.48
1:C:703:ALA:O	1:C:751:ILE:N	2.46	0.48
1:A:703:ALA:O	1:A:751:ILE:N	2.46	0.48
1:C:26:ILE:HA	1:C:59:GLN:O	2.13	0.48
1:C:562:LEU:H	1:C:751:ILE:HA	1.78	0.48
1:C:164:ILE:N	1:C:239:VAL:O	2.47	0.48
1:A:30:GLY:N	1:A:89:ALA:O	2.35	0.48
1:A:459:GLY:N	1:A:472:VAL:O	2.32	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:580:GLN:O	1:C:584:TRP:N	2.34	0.48
1:A:402:TRP:N	1:A:407:THR:HA	2.27	0.47
1:C:166:LEU:N	1:C:241:ILE:O	2.32	0.47
1:C:419:LEU:O	1:C:496:GLU:N	2.39	0.47
1:A:27:VAL:O	1:A:61:GLN:N	2.35	0.47
2:D:280:VAL:HA	2:D:364:ILE:HA	1.96	0.47
1:A:143:PRO:O	1:A:147:GLN:N	2.47	0.47
1:A:271:GLY:O	1:A:275:ILE:N	2.43	0.47
2:B:489:LYS:HA	2:B:494:TRP:HA	1.96	0.47
2:D:489:LYS:HA	2:D:494:TRP:HA	1.97	0.47
2:D:508:MET:HA	2:D:766:ILE:HA	1.97	0.47
1:C:459:GLY:N	1:C:472:VAL:O	2.32	0.47
2:B:508:MET:HA	2:B:766:ILE:HA	1.97	0.46
1:C:293:ILE:N	1:C:372:TYR:HA	2.29	0.46
1:C:520:ASN:C	1:C:524:GLY:H	2.23	0.46
1:A:712:ILE:O	1:A:715:ARG:N	2.48	0.46
2:B:281:SER:N	2:B:363:VAL:O	2.38	0.46
2:B:320:SER:O	2:B:324:THR:N	2.49	0.46
1:C:456:ILE:HA	1:C:475:CYS:HA	1.98	0.46
1:A:82:LEU:O	1:A:86:GLN:N	2.48	0.46
1:C:480:CYS:O	1:C:483:LEU:N	2.49	0.46
1:C:712:ILE:O	1:C:715:ARG:N	2.48	0.46
1:A:480:CYS:O	1:A:483:LEU:N	2.49	0.46
1:A:520:ASN:C	1:A:524:GLY:H	2.23	0.46
2:D:52:ASP:O	2:D:56:LYS:N	2.36	0.46
1:A:446:THR:N	1:A:450:ASP:O	2.49	0.46
1:C:82:LEU:O	1:C:86:GLN:N	2.48	0.46
1:C:446:THR:N	1:C:450:ASP:O	2.49	0.45
1:A:456:ILE:HA	1:A:475:CYS:HA	1.98	0.45
2:B:279:SER:N	2:B:365:ILE:O	2.47	0.45
2:D:320:SER:O	2:D:324:THR:N	2.49	0.45
1:C:143:PRO:O	1:C:147:GLN:N	2.47	0.45
1:C:455:VAL:N	1:C:476:CYS:O	2.38	0.45
2:D:281:SER:N	2:D:363:VAL:O	2.38	0.45
1:A:565:LYS:H	1:A:767:LEU:HA	1.82	0.45
1:C:275:ILE:O	1:C:279:ALA:HB3	2.17	0.45
2:D:342:VAL:O	2:D:349:LEU:N	2.50	0.45
2:D:128:GLY:O	2:D:132:MET:N	2.50	0.45
2:D:279:SER:N	2:D:365:ILE:O	2.47	0.45
2:B:792:LEU:O	2:B:796:TRP:N	2.45	0.45
2:B:793:GLU:HA	2:B:797:LEU:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:507:THR:C	1:C:519:TRP:HA	2.42	0.45
1:A:166:LEU:N	1:A:241:ILE:O	2.32	0.44
2:B:128:GLY:O	2:B:132:MET:N	2.50	0.44
1:C:27:VAL:O	1:C:61:GLN:N	2.35	0.44
1:C:513:ASN:C	1:C:515:ASN:H	2.25	0.44
1:A:507:THR:C	1:A:519:TRP:HA	2.42	0.44
2:B:342:VAL:O	2:B:349:LEU:N	2.50	0.44
1:A:513:ASN:C	1:A:515:ASN:H	2.25	0.44
1:C:402:TRP:N	1:C:407:THR:HA	2.28	0.44
2:B:173:THR:O	2:B:205:LEU:N	2.50	0.44
1:C:81:ASP:O	1:C:85:SER:N	2.43	0.44
2:D:793:GLU:HA	2:D:797:LEU:N	2.32	0.44
1:A:275:ILE:O	1:A:279:ALA:HB3	2.17	0.44
1:C:446:THR:C	1:C:449:GLY:H	2.25	0.44
2:D:40:ILE:N	2:D:98:VAL:O	2.33	0.44
1:C:419:LEU:N	1:C:494:THR:O	2.42	0.44
1:C:421:ILE:O	1:C:498:HIS:N	2.43	0.44
1:C:574:SER:O	1:C:577:GLN:N	2.51	0.44
1:A:293:ILE:N	1:A:372:TYR:HA	2.29	0.44
1:A:422:VAL:HA	1:A:498:HIS:O	2.18	0.44
2:D:514:THR:HA	2:D:762:TYR:HA	2.00	0.44
1:A:835:ALA:O	1:A:839:MET:CB	2.66	0.44
2:B:99:PHE:O	2:B:126:ILE:N	2.35	0.44
1:C:422:VAL:HA	1:C:498:HIS:O	2.18	0.44
2:B:364:ILE:C	2:B:376:VAL:H	2.24	0.43
1:C:835:ALA:O	1:C:839:MET:CB	2.66	0.43
2:D:173:THR:O	2:D:205:LEU:N	2.50	0.43
1:A:446:THR:C	1:A:449:GLY:H	2.25	0.43
1:C:565:LYS:H	1:C:767:LEU:HA	1.82	0.43
1:A:148:SER:O	1:A:151:TRP:N	2.52	0.43
1:C:148:SER:O	1:C:151:TRP:N	2.52	0.43
2:D:413:GLU:H	2:D:417:VAL:CB	2.30	0.43
2:D:490:ILE:N	2:D:494:TRP:HA	2.33	0.43
1:A:419:LEU:O	1:A:496:GLU:N	2.39	0.43
1:A:524:GLY:O	1:A:528:SER:N	2.35	0.43
1:A:574:SER:O	1:A:577:GLN:N	2.51	0.43
2:B:413:GLU:H	2:B:417:VAL:CB	2.30	0.43
1:A:806:MET:O	1:A:809:LEU:N	2.52	0.43
2:B:40:ILE:N	2:B:98:VAL:O	2.33	0.43
2:B:281:SER:O	2:B:363:VAL:N	2.50	0.43
2:B:514:THR:HA	2:B:762:TYR:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:806:MET:O	1:C:809:LEU:N	2.52	0.43
1:C:810:ASP:C	1:C:815:ARG:H	2.25	0.43
1:C:507:THR:O	1:C:519:TRP:HA	2.19	0.42
2:D:344:PHE:N	2:D:347:ARG:O	2.40	0.42
1:A:507:THR:O	1:A:519:TRP:HA	2.19	0.42
1:A:563:VAL:O	1:A:768:VAL:N	2.31	0.42
2:B:490:ILE:N	2:B:494:TRP:HA	2.34	0.42
2:B:782:GLN:C	2:B:785:GLY:H	2.26	0.42
2:D:782:GLN:C	2:D:785:GLY:H	2.26	0.42
1:C:825:ALA:O	1:C:827:ALA:N	2.52	0.42
1:A:810:ASP:C	1:A:815:ARG:H	2.25	0.42
2:D:238:THR:O	2:D:242:GLU:CB	2.67	0.42
1:C:169:ASP:N	1:C:218:PHE:H	2.18	0.42
1:A:270:VAL:O	1:A:289:GLY:HA2	2.20	0.42
1:A:420:LYS:C	1:A:531:ALA:HB1	2.45	0.42
2:D:780:ILE:O	2:D:783:LEU:N	2.53	0.42
1:C:271:GLY:O	1:C:275:ILE:N	2.43	0.41
1:C:270:VAL:O	1:C:289:GLY:HA2	2.20	0.41
2:B:52:ASP:O	2:B:56:LYS:N	2.36	0.41
2:B:238:THR:O	2:B:242:GLU:CB	2.68	0.41
2:D:438:LYS:H	2:D:453:ILE:N	2.18	0.41
2:B:780:ILE:O	2:B:783:LEU:N	2.53	0.41
1:A:169:ASP:N	1:A:218:PHE:H	2.18	0.41
1:A:153:GLU:O	1:A:156:ARG:N	2.53	0.41
1:C:420:LYS:C	1:C:531:ALA:HB1	2.45	0.41
2:B:438:LYS:H	2:B:453:ILE:N	2.18	0.41
2:B:644:ALA:O	2:B:648:ALA:HB2	2.20	0.41
1:C:225:VAL:O	1:C:228:LEU:N	2.54	0.41
1:A:225:VAL:O	1:A:228:LEU:N	2.54	0.41
1:A:419:LEU:N	1:A:494:THR:O	2.42	0.41
1:A:845:ILE:O	1:A:848:GLY:N	2.54	0.41
1:C:524:GLY:O	1:C:528:SER:N	2.35	0.41
2:D:600:PHE:O	2:D:604:LYS:N	2.54	0.41
1:A:338:THR:O	1:A:342:PHE:N	2.43	0.41
2:B:600:PHE:O	2:B:604:LYS:N	2.54	0.41
2:D:406:LEU:CB	2:D:476:TYR:HA	2.51	0.41
2:B:172:VAL:O	2:B:230:LEU:HA	2.21	0.40
1:C:153:GLU:O	1:C:156:ARG:N	2.53	0.40
1:A:45:ALA:O	1:A:49:ALA:CB	2.68	0.40
2:B:793:GLU:HA	2:B:797:LEU:H	1.86	0.40
2:B:33:PRO:O	2:B:65:VAL:N	2.26	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:625:GLY:O	2:B:629:LYS:N	2.54	0.40
1:C:845:ILE:O	1:C:848:GLY:N	2.54	0.40
2:D:364:ILE:C	2:D:376:VAL:H	2.24	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	769/846 (91%)	688 (90%)	80 (10%)	1 (0%)	48	83
1	C	763/846 (90%)	682 (89%)	80 (10%)	1 (0%)	48	83
2	B	751/827 (91%)	685 (91%)	60 (8%)	6 (1%)	16	53
2	D	738/827 (89%)	675 (92%)	57 (8%)	6 (1%)	16	53
All	All	3021/3346 (90%)	2730 (90%)	277 (9%)	14 (0%)	26	63

All (14) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	660	VAL
2	D	660	VAL
2	B	808	VAL
2	D	808	VAL
2	B	538	VAL
2	D	538	VAL
1	A	270	VAL
1	C	270	VAL
2	B	340	ILE
2	D	340	ILE
2	B	190	ILE
2	B	240	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	D	190	ILE
2	D	240	ILE

5.3.2 Protein sidechains [i](#)

There are no protein residues with a non-rotameric sidechain to report in this entry.

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

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](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	A	2
1	C	2

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	209:GLY	C	210:PRO	N	1.13
1	C	209:GLY	C	210:PRO	N	1.13
1	A	450:ASP	C	451:PRO	N	1.02
1	C	450:ASP	C	451:PRO	N	1.02

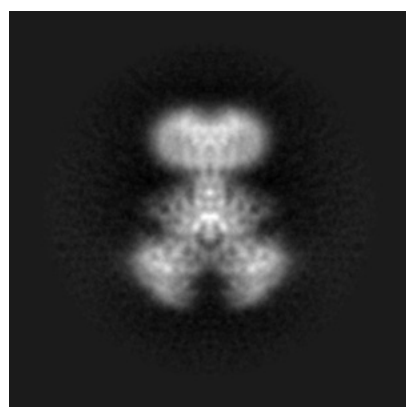
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-3353. These allow visual inspection of the internal detail of the map and identification of artifacts.

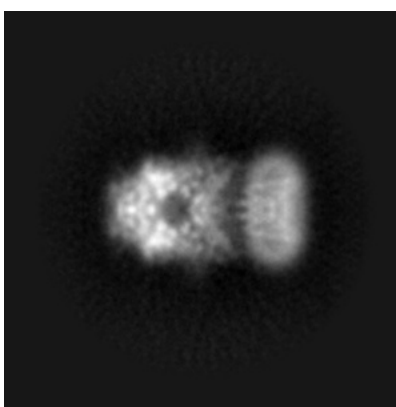
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

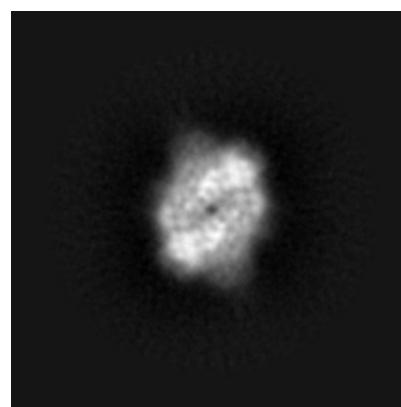
6.1.1 Primary map



X



Y

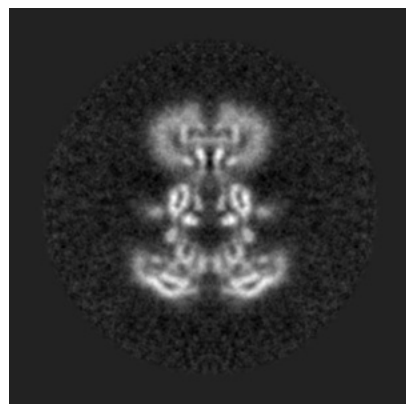


Z

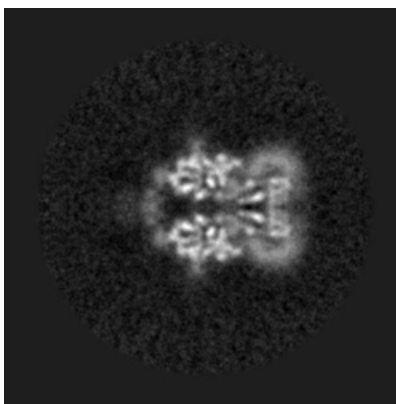
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

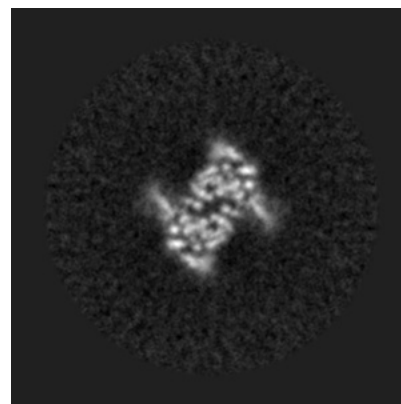
6.2.1 Primary map



X Index: 128



Y Index: 128

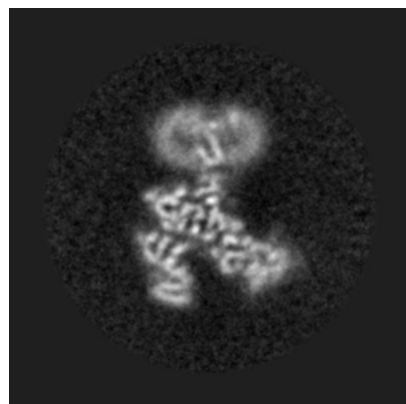


Z Index: 128

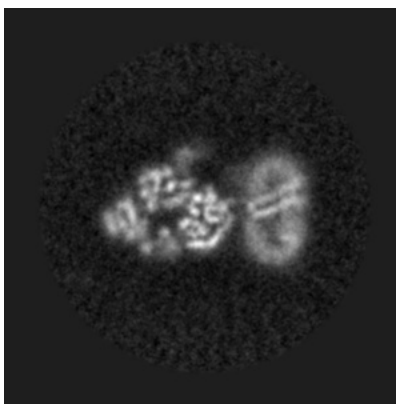
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

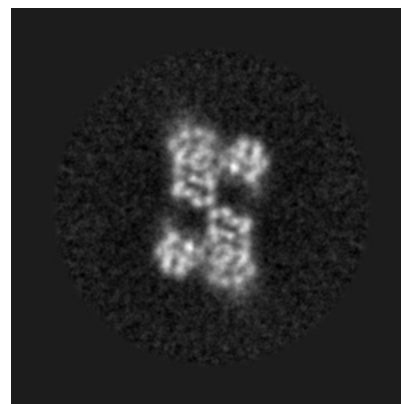
6.3.1 Primary map



X Index: 113



Y Index: 112

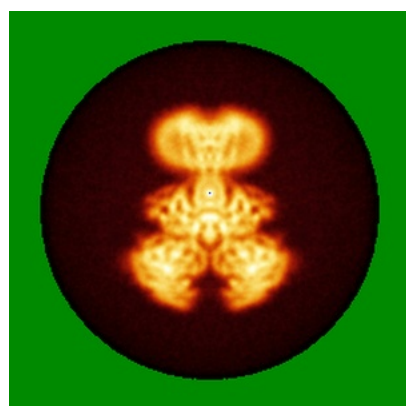


Z Index: 93

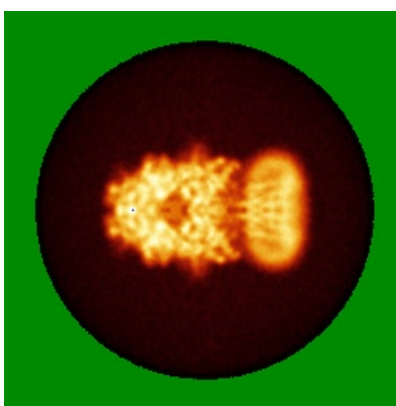
The images above show the largest variance slices of the map in three orthogonal directions.

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

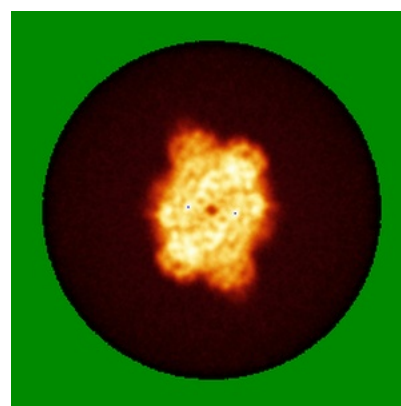
6.4.1 Primary map



X



Y

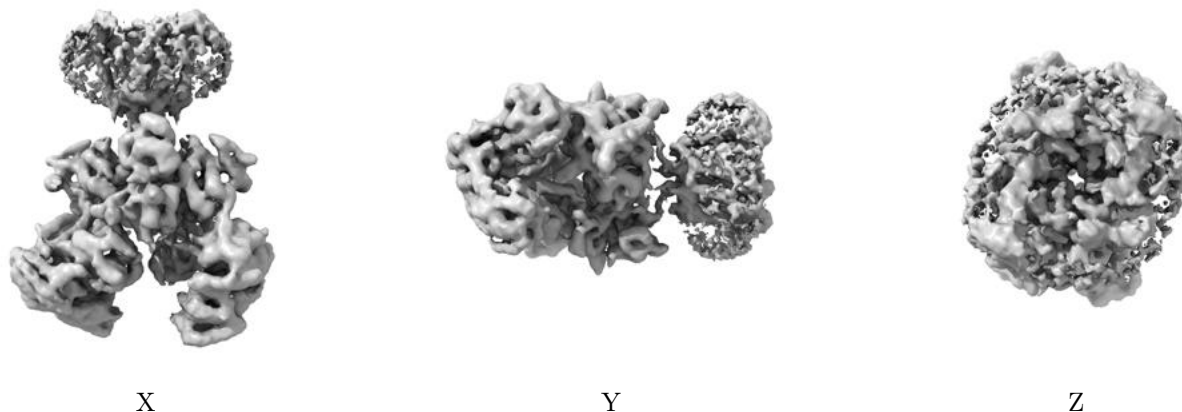


Z

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

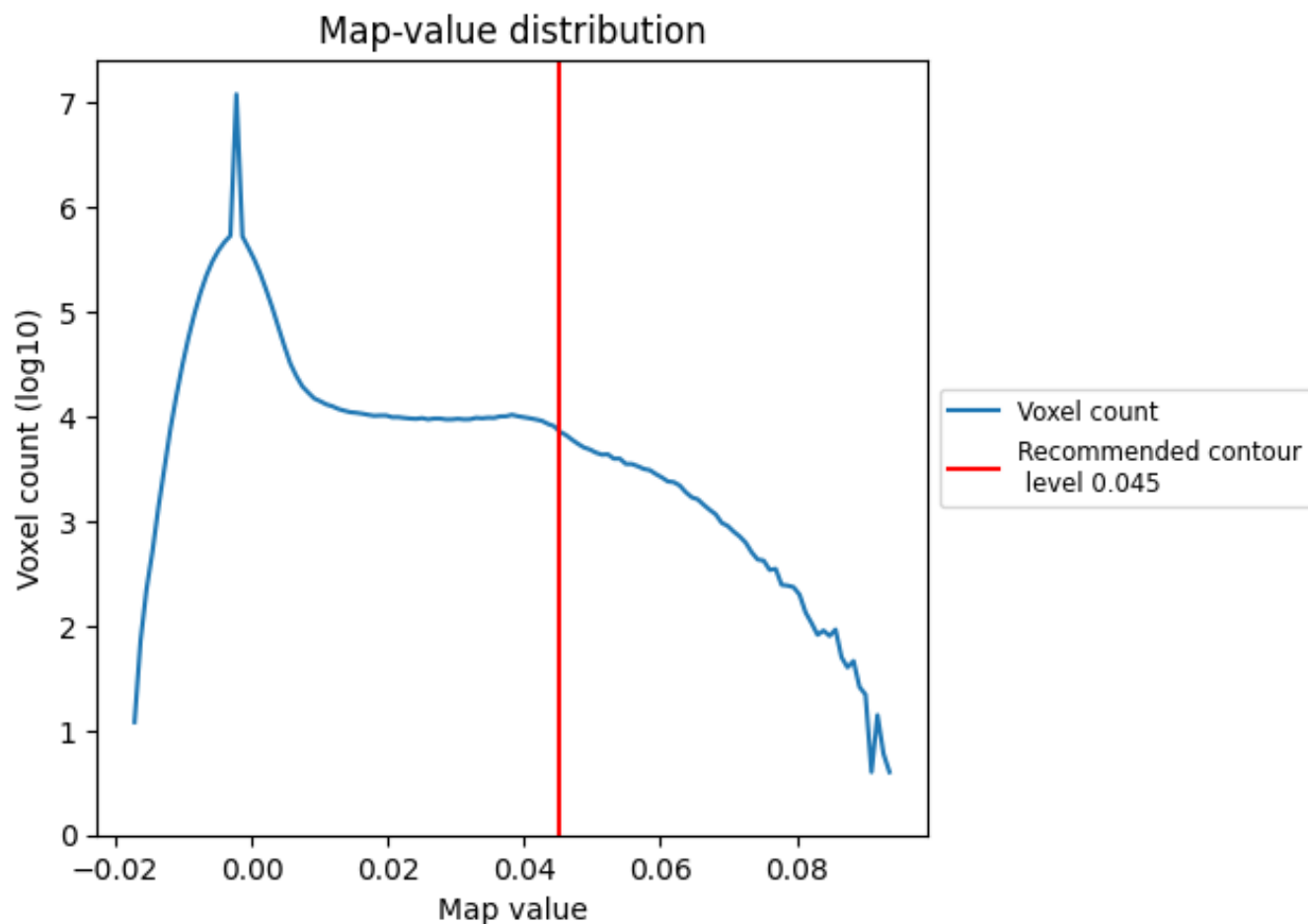
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

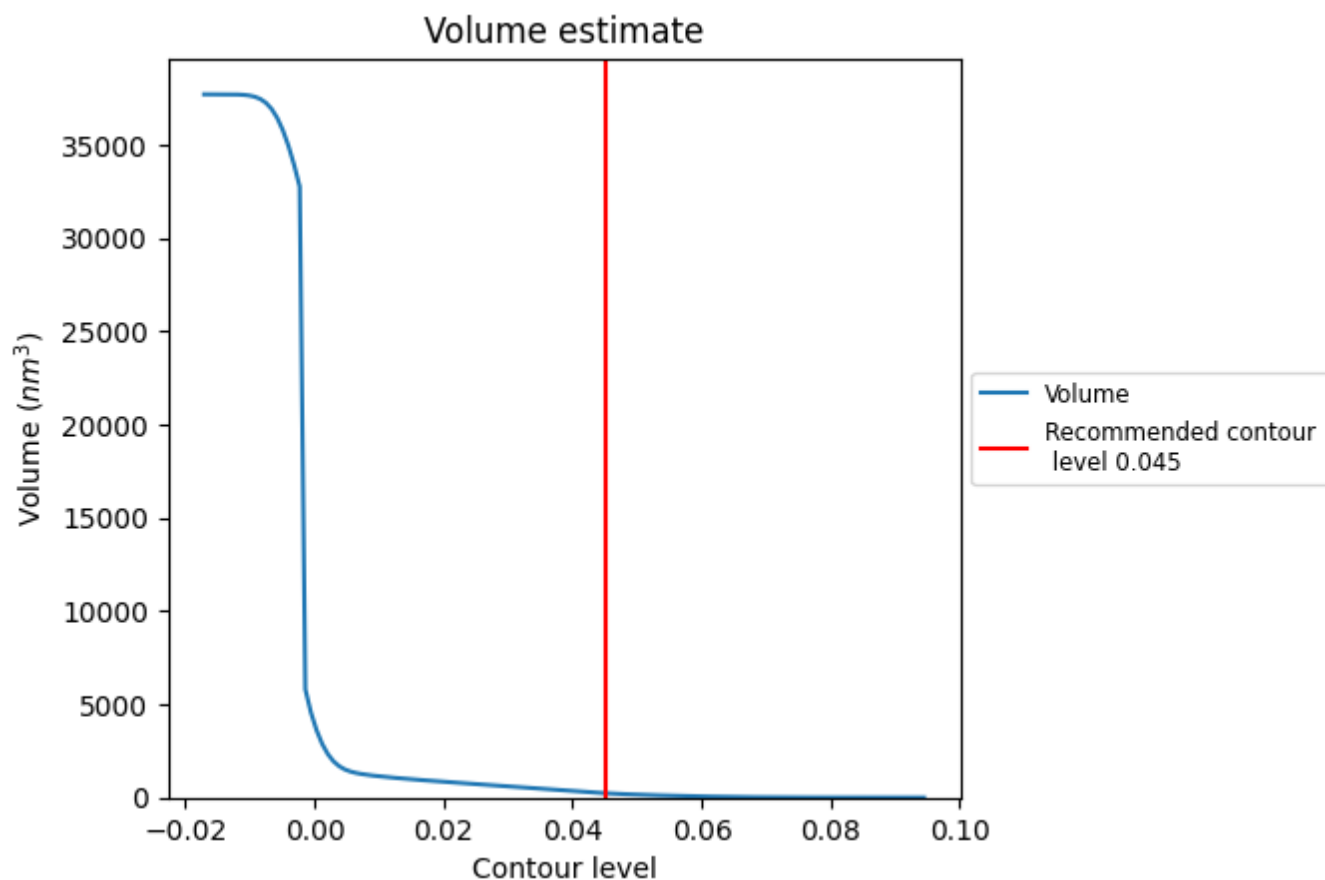
This section contains the results of statistical analysis of the map.

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.

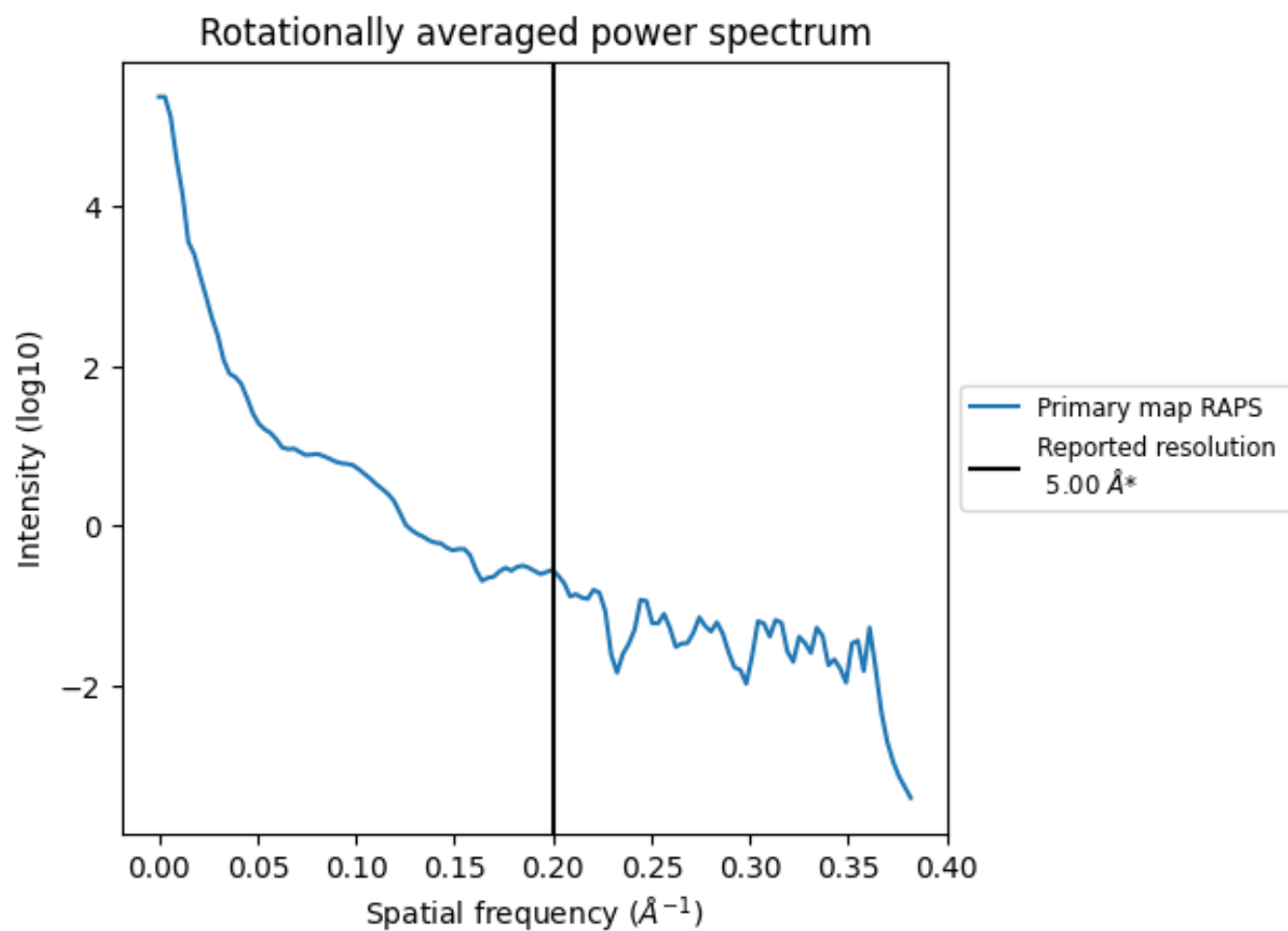
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 235 nm³; this corresponds to an approximate mass of 212 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 0.200 Å⁻¹

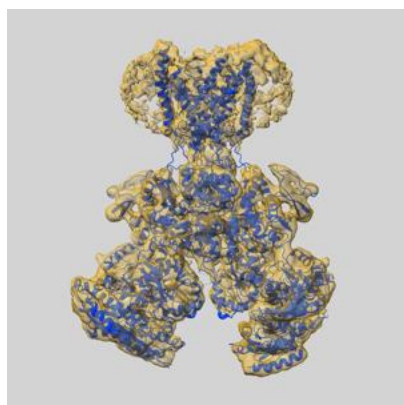
8 Fourier-Shell correlation

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

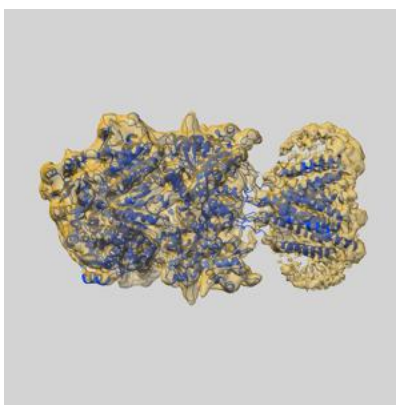
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-3353 and PDB model 5FXH. Per-residue inclusion information can be found in section 3 on page 5.

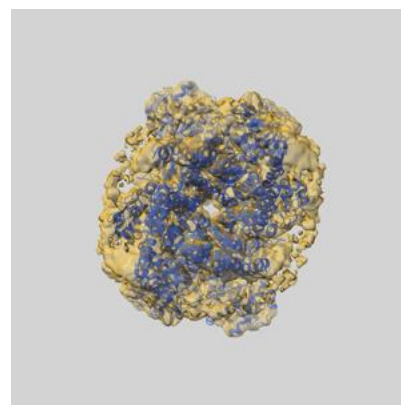
9.1 Map-model overlay [i](#)



X



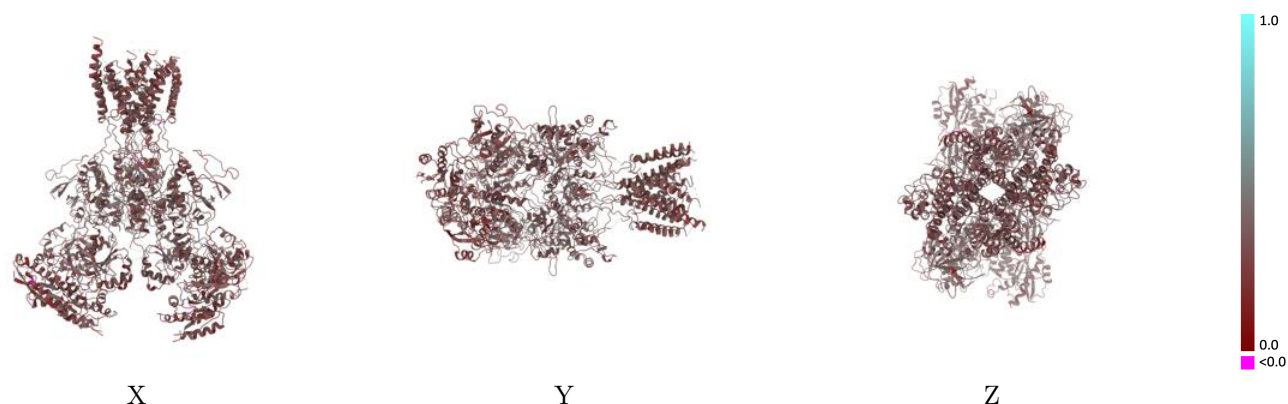
Y



Z

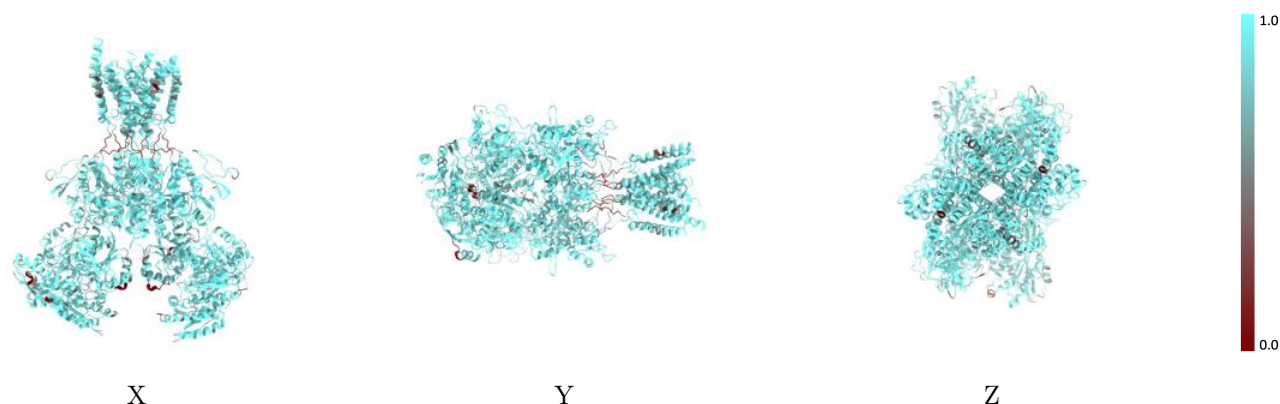
The images above show the 3D surface view of the map at the recommended contour level 0.045 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



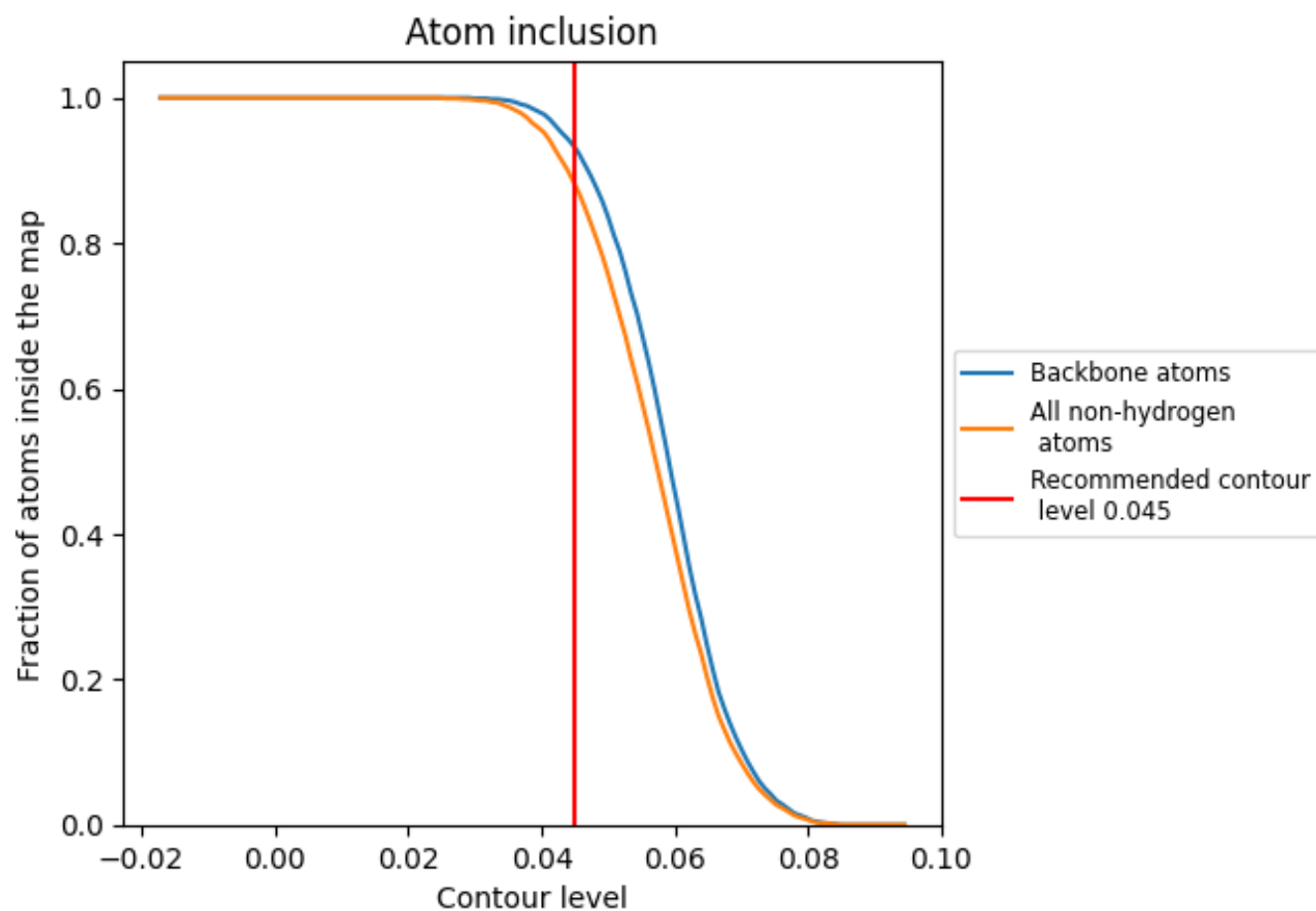
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.045).

9.4 Atom inclusion [i](#)



At the recommended contour level, 93% of all backbone atoms, 88% 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 (0.045) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8810	0.3200
A	0.8880	0.3170
B	0.8670	0.3220
C	0.8900	0.3170
D	0.8770	0.3240

