



wwPDB EM Validation Summary Report ⓘ

Mar 10, 2025 – 02:53 PM EDT

PDB ID : 9NBI
EMDB ID : EMD-49230
Title : AUGMIN(V junction)/NEDD1(WD)
Authors : Ashaduzzaman, M.; Al-Bassam, J.
Deposited on : 2025-02-13
Resolution : 13.00 Å(reported)

This is a wwPDB EM Validation Summary 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.dev117
MolProbity : 4.02b-467
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) : 2.41.4

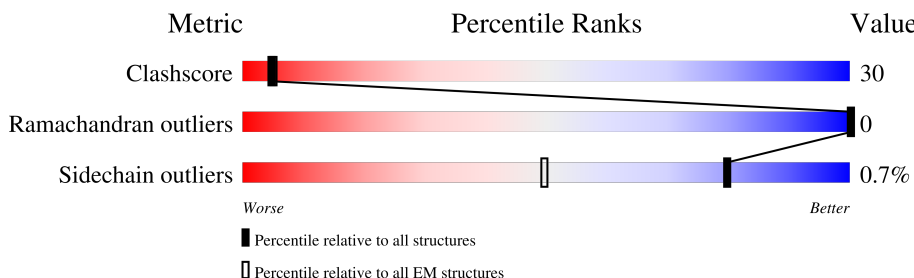
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 13.00 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)
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	B	296	<div> <div>15%</div> <div>23%</div> <div>22%</div> <div>54%</div> </div>
2	C	617	<div> <div>16%</div> <div>22%</div> <div>20%</div> <div>58%</div> </div>
3	E	747	<div> <div>17%</div> <div>24%</div> <div>25%</div> <div>50%</div> </div>
4	F	387	<div> <div>28%</div> <div>36%</div> <div>48%</div> <div>15%</div> </div>
5	G	329	<div> <div>35%</div> <div>42%</div> <div>39%</div> <div>19%</div> </div>
6	H	281	<div> <div>7%</div> <div>19%</div> <div>22%</div> <div>59%</div> </div>
7	I	377	<div> <div>48%</div> <div>45%</div> <div>37%</div> <div>18%</div> </div>

2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 14091 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 AUGMIN subunit 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	B	135	Total	C	N	O	S	0	0
			1058	660	187	208	3		

- Molecule 2 is a protein called AUGMIN subunit 3.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	C	259	Total	C	N	O	S	0	0
			2100	1326	366	400	8		

- Molecule 3 is a protein called AUGMIN subunit 5.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	E	371	Total	C	N	O	S	0	0
			2934	1814	524	585	11		

There are 49 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
E	?	-	LEU	deletion	UNP Q9FMB4
E	?	-	SER	deletion	UNP Q9FMB4
E	?	-	TYR	deletion	UNP Q9FMB4
E	?	-	GLN	deletion	UNP Q9FMB4
E	?	-	PHE	deletion	UNP Q9FMB4
E	?	-	ASN	deletion	UNP Q9FMB4
E	?	-	GLY	deletion	UNP Q9FMB4
E	?	-	ASN	deletion	UNP Q9FMB4
E	?	-	GLY	deletion	UNP Q9FMB4
E	?	-	LYS	deletion	UNP Q9FMB4
E	?	-	ILE	deletion	UNP Q9FMB4
E	?	-	GLY	deletion	UNP Q9FMB4
E	?	-	THR	deletion	UNP Q9FMB4
E	?	-	ASP	deletion	UNP Q9FMB4
E	?	-	THR	deletion	UNP Q9FMB4

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Chain	Residue	Modelled	Actual	Comment	Reference
E	?	-	HIS	deletion	UNP Q9FMB4
E	?	-	PHE	deletion	UNP Q9FMB4
E	?	-	GLN	deletion	UNP Q9FMB4
E	?	-	GLY	deletion	UNP Q9FMB4
E	?	-	LEU	deletion	UNP Q9FMB4
E	?	-	GLU	deletion	UNP Q9FMB4
E	?	-	SER	deletion	UNP Q9FMB4
E	?	-	MET	deletion	UNP Q9FMB4
E	?	-	GLY	deletion	UNP Q9FMB4
E	?	-	ALA	deletion	UNP Q9FMB4
E	?	-	ASN	deletion	UNP Q9FMB4
E	?	-	GLY	deletion	UNP Q9FMB4
E	?	-	SER	deletion	UNP Q9FMB4
E	?	-	THR	deletion	UNP Q9FMB4
E	?	-	GLY	deletion	UNP Q9FMB4
E	?	-	PRO	deletion	UNP Q9FMB4
E	?	-	GLU	deletion	UNP Q9FMB4
E	?	-	ALA	deletion	UNP Q9FMB4
E	?	-	VAL	deletion	UNP Q9FMB4
E	?	-	ALA	deletion	UNP Q9FMB4
E	?	-	TYR	deletion	UNP Q9FMB4
E	?	-	ALA	deletion	UNP Q9FMB4
E	?	-	GLU	deletion	UNP Q9FMB4
E	?	-	LYS	deletion	UNP Q9FMB4
E	?	-	ASN	deletion	UNP Q9FMB4
E	?	-	ALA	deletion	UNP Q9FMB4
E	?	-	ALA	deletion	UNP Q9FMB4
E	?	-	LEU	deletion	UNP Q9FMB4
E	?	-	LEU	deletion	UNP Q9FMB4
E	?	-	THR	deletion	UNP Q9FMB4
E	?	-	ALA	deletion	UNP Q9FMB4
E	?	-	ARG	deletion	UNP Q9FMB4
E	?	-	ALA	deletion	UNP Q9FMB4
E	?	-	GLY	deletion	UNP Q9FMB4

- Molecule 4 is a protein called AUGMIN subunit 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	F	328	Total	C	N	O	S	0	0
			2575	1601	470	493	11		

- Molecule 5 is a protein called AUGMIN subunit 7.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	G	267	Total	C	N	O	S	0	0
			2156	1373	359	415	9		

- Molecule 6 is a protein called AUGMIN subunit 8.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	H	115	Total	C	N	O	S	0	0
			935	587	171	175	2		

There are 19 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
H	1	MET	-	expression tag	UNP Q9SUH5
H	2	LYS	-	expression tag	UNP Q9SUH5
H	3	SER	-	expression tag	UNP Q9SUH5
H	4	SER	-	expression tag	UNP Q9SUH5
H	5	GLU	-	expression tag	UNP Q9SUH5
H	6	ASP	-	expression tag	UNP Q9SUH5
H	7	GLN	-	expression tag	UNP Q9SUH5
H	8	VAL	-	expression tag	UNP Q9SUH5
H	9	ASP	-	expression tag	UNP Q9SUH5
H	10	PRO	-	expression tag	UNP Q9SUH5
H	11	ARG	-	expression tag	UNP Q9SUH5
H	12	LEU	-	expression tag	UNP Q9SUH5
H	13	ILE	-	expression tag	UNP Q9SUH5
H	14	ASP	-	expression tag	UNP Q9SUH5
H	15	GLY	-	expression tag	UNP Q9SUH5
H	16	LYS	-	expression tag	UNP Q9SUH5
H	17	GLY	-	expression tag	UNP Q9SUH5
H	18	SER	-	expression tag	UNP Q9SUH5
H	19	GLY	-	expression tag	UNP Q9SUH5

- Molecule 7 is a protein called Protein NEDD1.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	I	310	Total	C	N	O	S	0	0
			2333	1457	411	454	11		

There are 21 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
I	-9	MET	-	expression tag	UNP B3H5K9
I	-8	GLY	-	expression tag	UNP B3H5K9

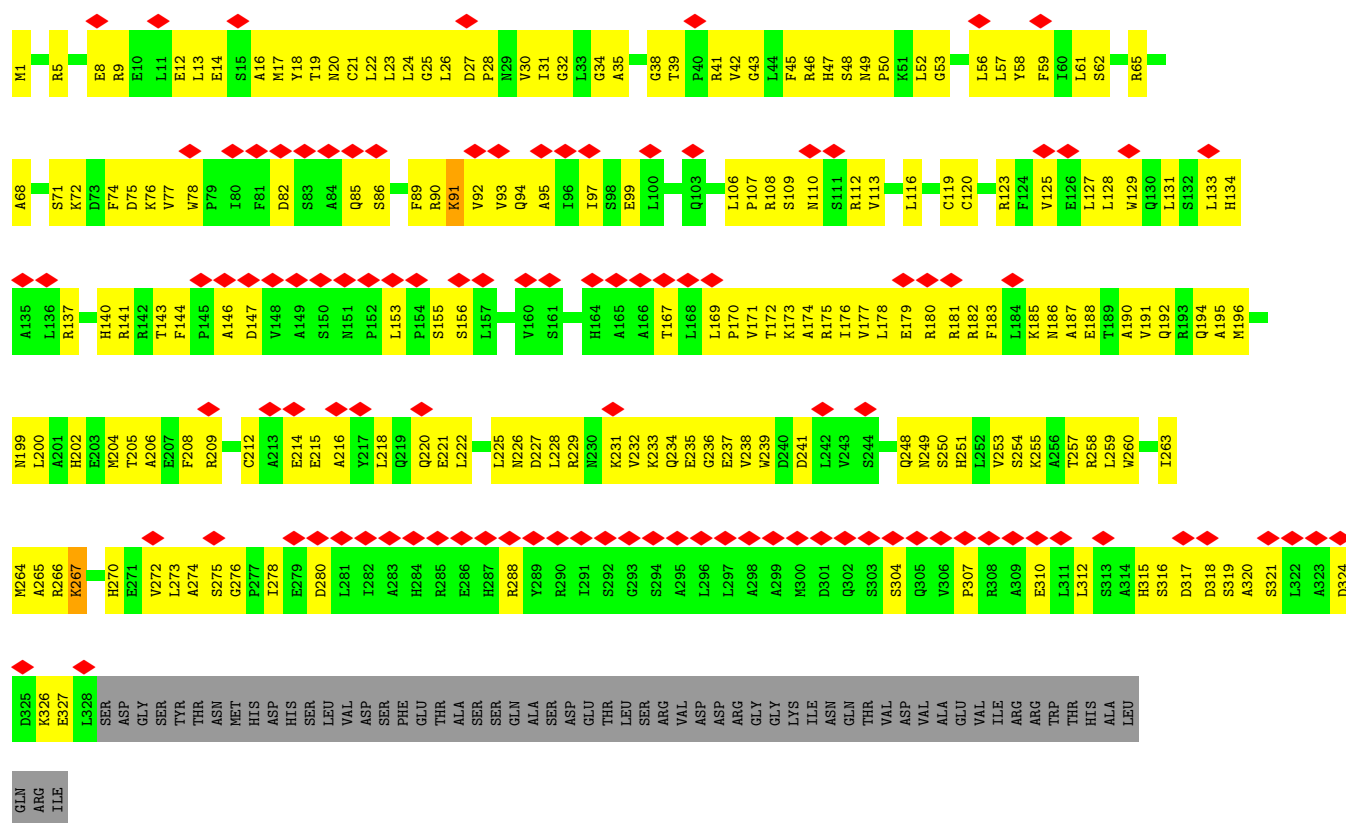
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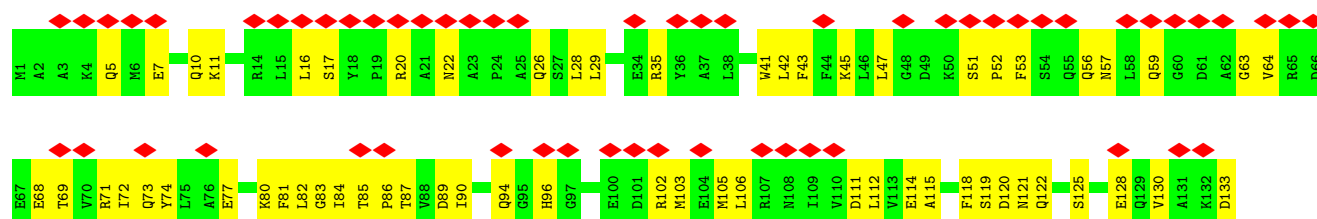
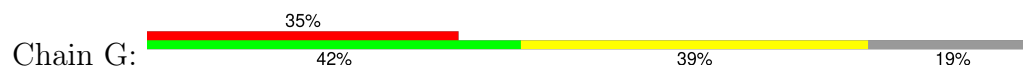
Chain	Residue	Modelled	Actual	Comment	Reference
I	-7	SER	-	expression tag	UNP B3H5K9
I	-6	SER	-	expression tag	UNP B3H5K9
I	-5	HIS	-	expression tag	UNP B3H5K9
I	-4	HIS	-	expression tag	UNP B3H5K9
I	-3	HIS	-	expression tag	UNP B3H5K9
I	-2	HIS	-	expression tag	UNP B3H5K9
I	-1	HIS	-	expression tag	UNP B3H5K9
I	0	HIS	-	expression tag	UNP B3H5K9
I	357	GLY	-	expression tag	UNP B3H5K9
I	358	GLY	-	expression tag	UNP B3H5K9
I	359	SER	-	expression tag	UNP B3H5K9
I	360	TRP	-	expression tag	UNP B3H5K9
I	361	SER	-	expression tag	UNP B3H5K9
I	362	HIS	-	expression tag	UNP B3H5K9
I	363	PRO	-	expression tag	UNP B3H5K9
I	364	GLN	-	expression tag	UNP B3H5K9
I	365	PHE	-	expression tag	UNP B3H5K9
I	366	GLU	-	expression tag	UNP B3H5K9
I	367	LYS	-	expression tag	UNP B3H5K9



- Molecule 4: AUGMIN subunit 6



- Molecule 5: AUGMIN subunit 7



GLN PHE GLU GLY LYS	H304	G242	
	A305	G243	
	A306	D244	
	S307	K245	
	N308	L247	
	S309	Y248	
	E310	T249	
	D311	Y250	
	T312	D251	
	T313	S252	
S314	G253		
L315	S254		
S316	S255		
W317	R256		
Q318	S257		
T319	S258		
SER	S259		
LYS	C260		
PRO	T261		
VAL	A262		
ILE	G263		
VAL			
ASN			
GLU	F267		
LYS	S268		
ASN	D269		
TYR	L270		
THR	A271		
GLU	F272		
MET	G273		
ALA	D274		
LEU	N275		
LEU	G276		
GLY	Y277		
THR	L278		
VAL	T279		
GLU	V280		
ASP	A281		
SER	G282		
VAL	T283		
VAL	S284		
PRO	N285		
ASP	G286		
PRO	R287		
LEU	V288		
PRO	V289		
SER	F290		
THR	Y291		
THR	D292		
PRO	T293		
GLY	R294		
GLY	G295		
SER	K296		
TRP	P297		
SER	Q298		
HIS	P299		
PRO	V300		
	T301		
	V302		
	L303		

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	26681	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	TFS GLACIOS	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	60	Depositor
Minimum defocus (nm)	600	Depositor
Maximum defocus (nm)	1800	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	1.894	Depositor
Minimum map value	-0.001	Depositor
Average map value	0.004	Depositor
Map value standard deviation	0.039	Depositor
Recommended contour level	0.31	Depositor
Map size (\AA)	352.0, 352.0, 352.0	wwPDB
Map dimensions	200, 200, 200	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	1.76, 1.76, 1.76	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	B	0.24	0/1070	0.48	0/1442
2	C	0.25	0/2136	0.51	0/2879
3	E	0.26	0/2972	0.53	0/4010
4	F	0.24	0/2621	0.53	0/3543
5	G	0.25	0/2197	0.49	0/2971
6	H	0.23	0/950	0.51	0/1287
7	I	0.25	0/2381	0.52	0/3227
All	All	0.25	0/14327	0.51	0/19359

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
6	H	0	1

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
6	H	92	MET	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	B	1058	0	1077	84	0
2	C	2100	0	2091	164	0
3	E	2934	0	2911	242	0
4	F	2575	0	2566	211	0
5	G	2156	0	2139	136	0
6	H	935	0	937	83	0
7	I	2333	0	2310	125	0
All	All	14091	0	14031	831	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 30.

The worst 5 of 831 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:C:284:GLU:H	3:E:395:LEU:HD13	1.38	0.88
2:C:374:ILE:HB	3:E:273:ARG:HD3	1.58	0.85
4:F:46:ARG:O	4:F:90:ARG:NH2	2.10	0.84
4:F:143:THR:HA	6:H:77:ARG:HH12	1.40	0.83
2:C:382:ASN:ND2	3:E:264:LEU:O	2.13	0.81

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	B	133/296 (45%)	126 (95%)	7 (5%)	0	100	100
2	C	257/617 (42%)	239 (93%)	18 (7%)	0	100	100
3	E	369/747 (49%)	340 (92%)	29 (8%)	0	100	100
4	F	326/387 (84%)	307 (94%)	19 (6%)	0	100	100
5	G	265/329 (80%)	254 (96%)	11 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
6	H	113/281 (40%)	107 (95%)	6 (5%)	0	100	100
7	I	308/377 (82%)	268 (87%)	40 (13%)	0	100	100
All	All	1771/3034 (58%)	1641 (93%)	130 (7%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains [i](#)

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	B	117/258 (45%)	116 (99%)	1 (1%)	75	83
2	C	229/538 (43%)	228 (100%)	1 (0%)	89	91
3	E	320/644 (50%)	316 (99%)	4 (1%)	65	77
4	F	283/335 (84%)	280 (99%)	3 (1%)	70	80
5	G	232/281 (83%)	230 (99%)	2 (1%)	75	83
6	H	102/251 (41%)	102 (100%)	0	100	100
7	I	259/321 (81%)	259 (100%)	0	100	100
All	All	1542/2628 (59%)	1531 (99%)	11 (1%)	80	87

5 of 11 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
4	F	267	LYS
4	F	288	ARG
5	G	216	ARG
5	G	45	LYS
3	E	541	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 7 such sidechains are listed below:

Mol	Chain	Res	Type
5	G	5	GLN
5	G	198	HIS
6	H	125	GLN
6	H	116	HIS
4	F	226	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

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.

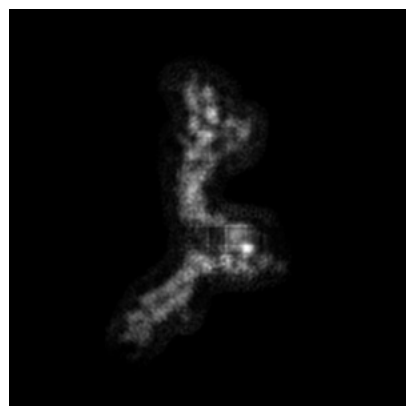
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-49230. These allow visual inspection of the internal detail of the map and identification of artifacts.

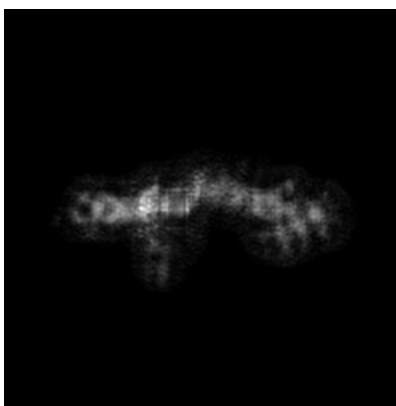
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

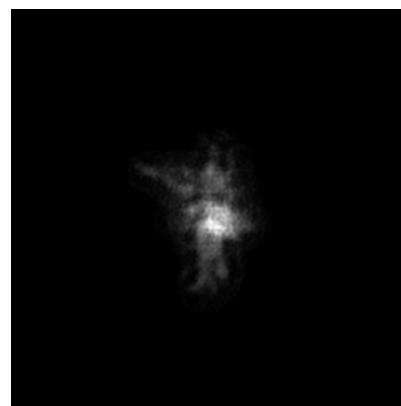
6.1.1 Primary map



X



Y

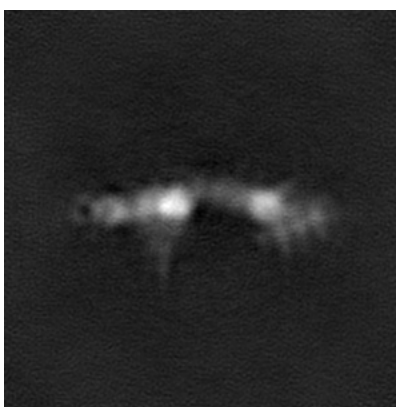


Z

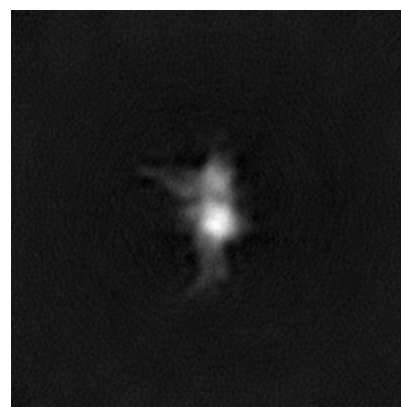
6.1.2 Raw map



X



Y

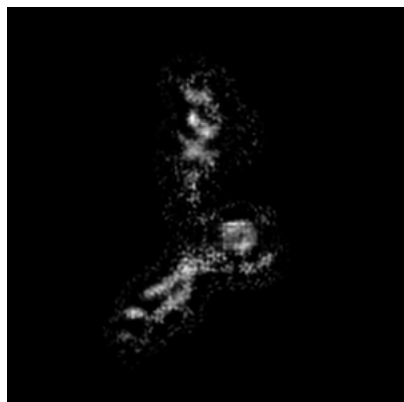


Z

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

6.2 Central slices [i](#)

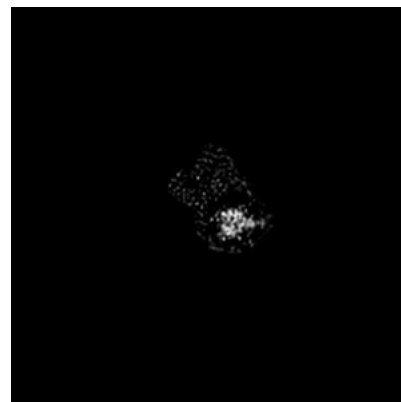
6.2.1 Primary map



X Index: 100



Y Index: 100

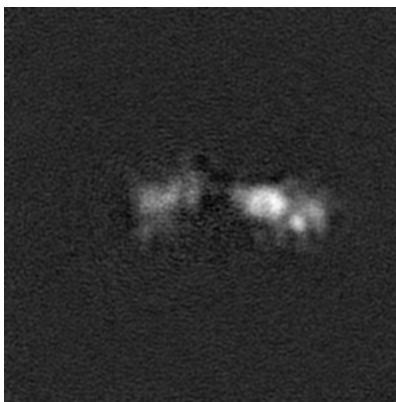


Z Index: 100

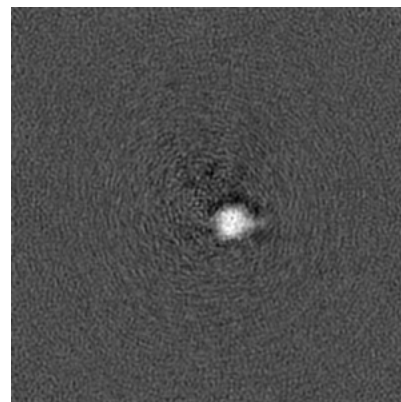
6.2.2 Raw map



X Index: 100



Y Index: 100



Z Index: 100

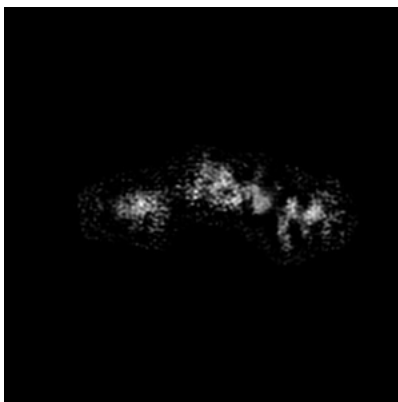
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

6.3.1 Primary map



X Index: 99

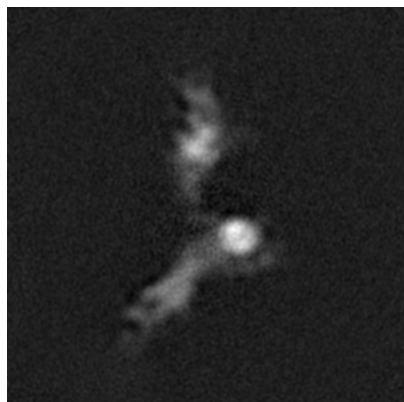


Y Index: 91

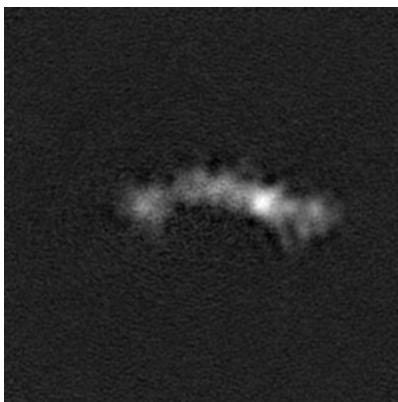


Z Index: 72

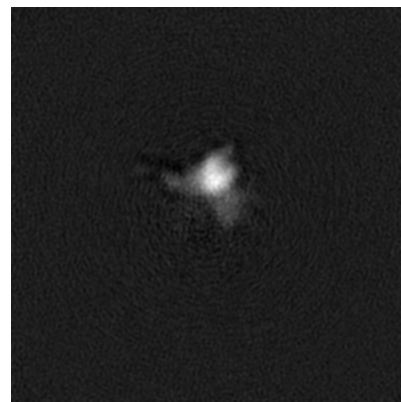
6.3.2 Raw map



X Index: 101



Y Index: 94

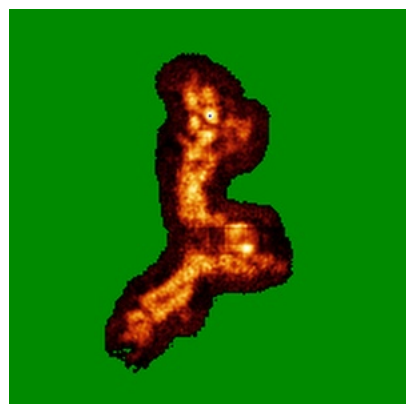


Z Index: 86

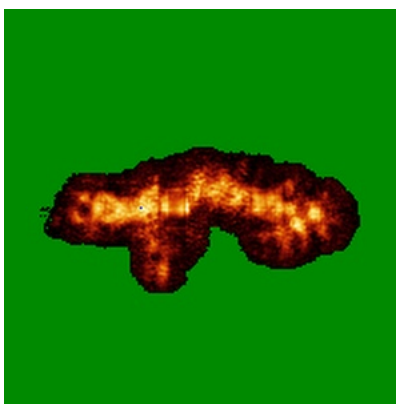
The images above show the largest variance slices of the map in three orthogonal directions.

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

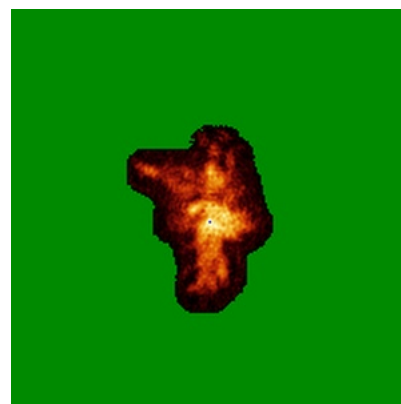
6.4.1 Primary map



X



Y

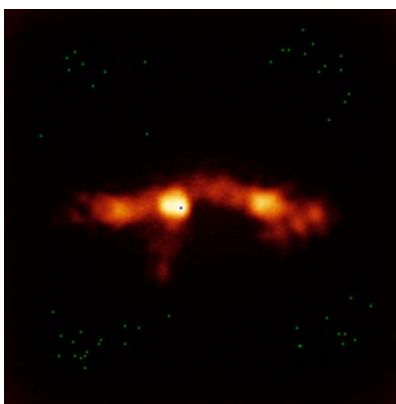


Z

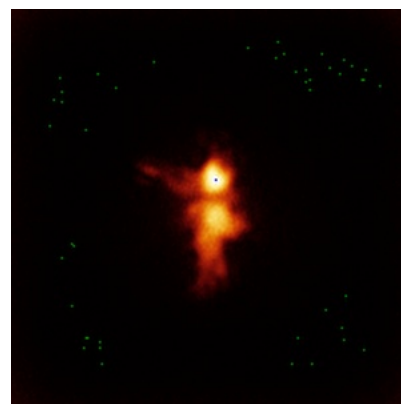
6.4.2 Raw map



X



Y

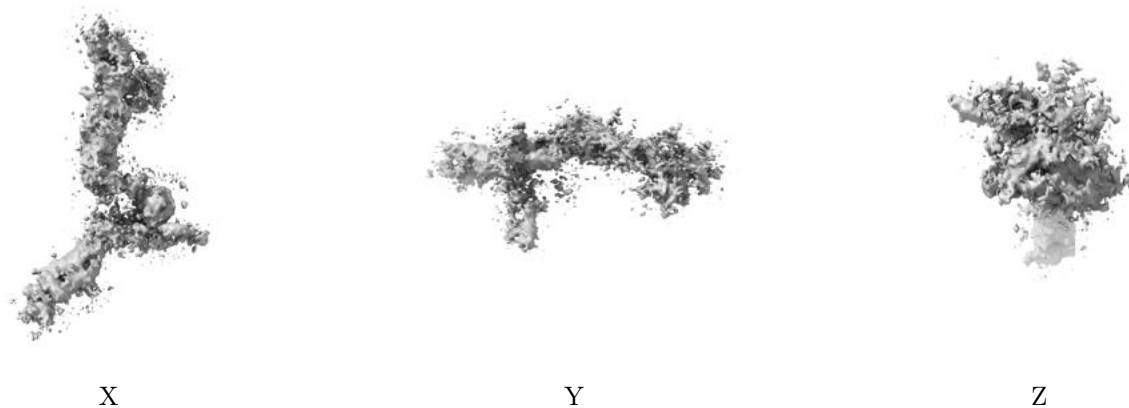


Z

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 0.31. 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.

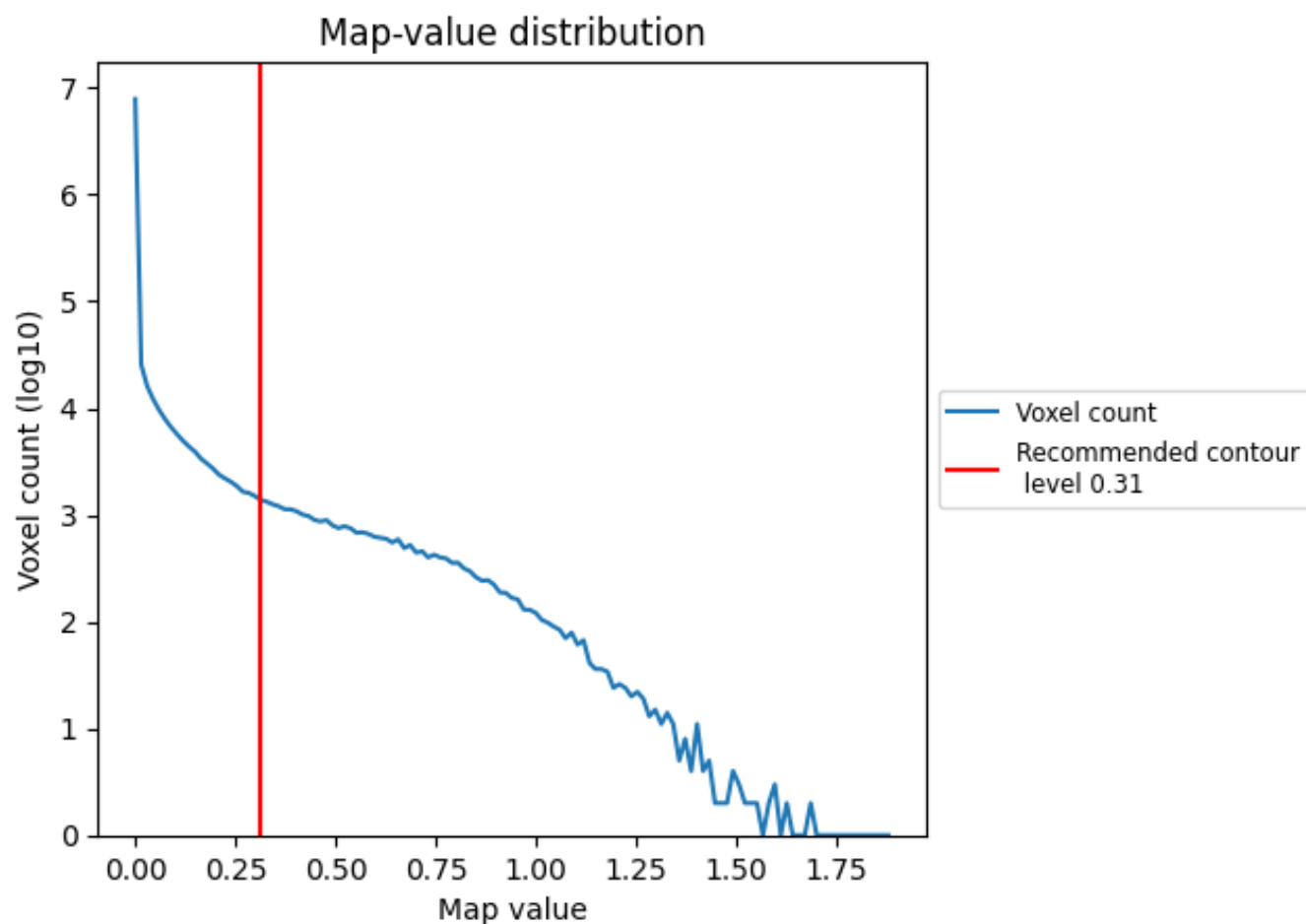
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

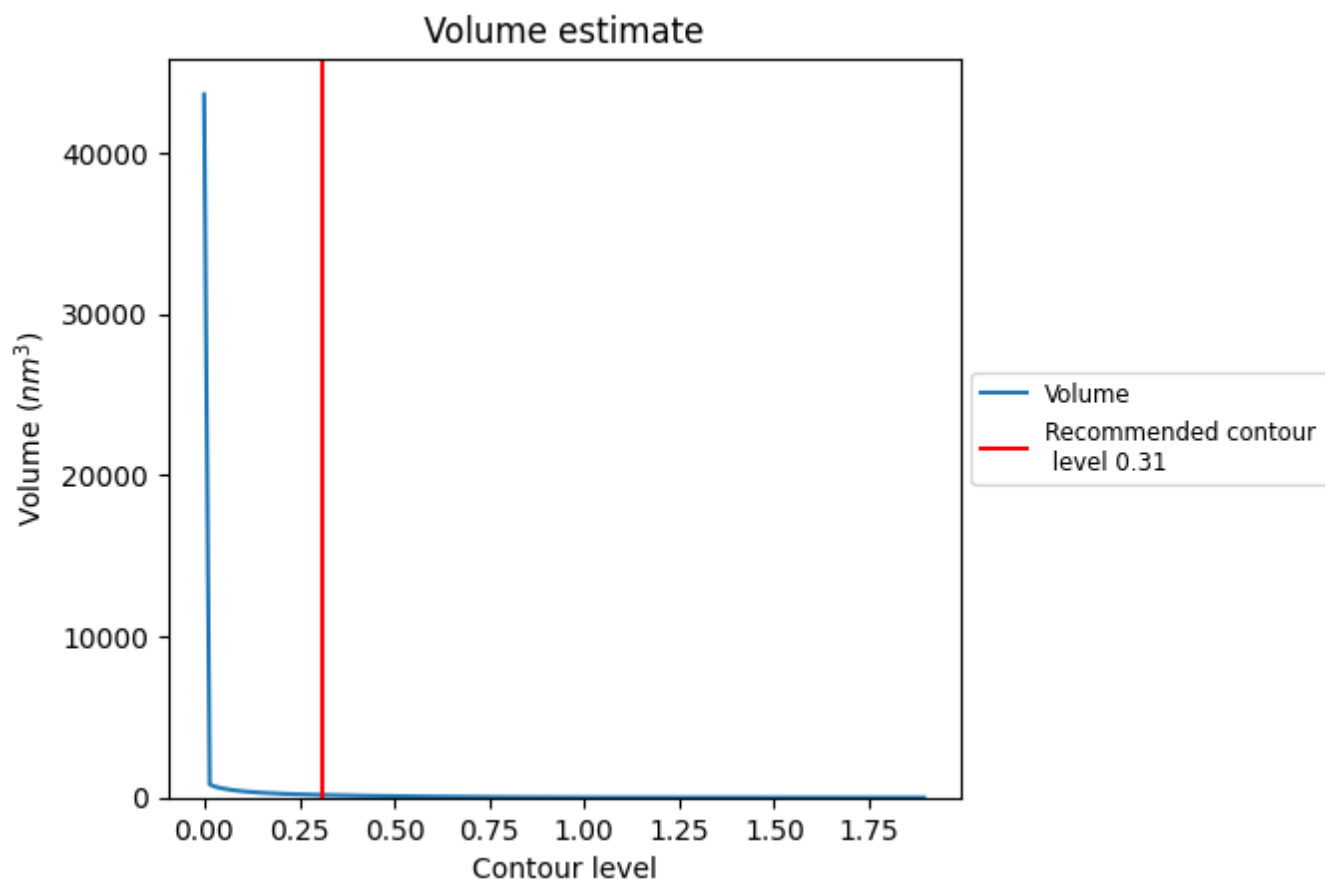
This section contains the results of statistical analysis of the map.

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.

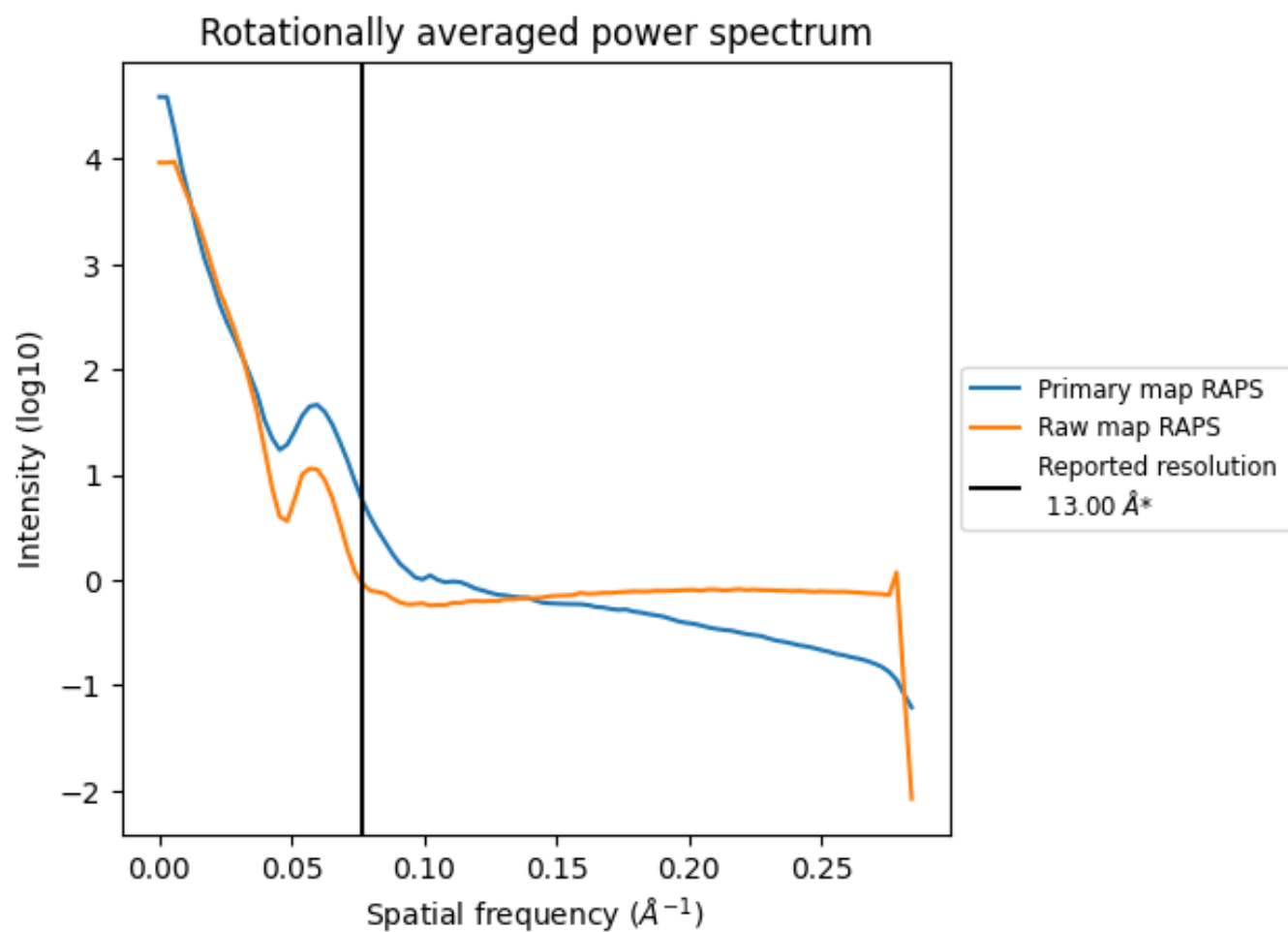
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 161 nm^3 ; this corresponds to an approximate mass of 145 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](#)

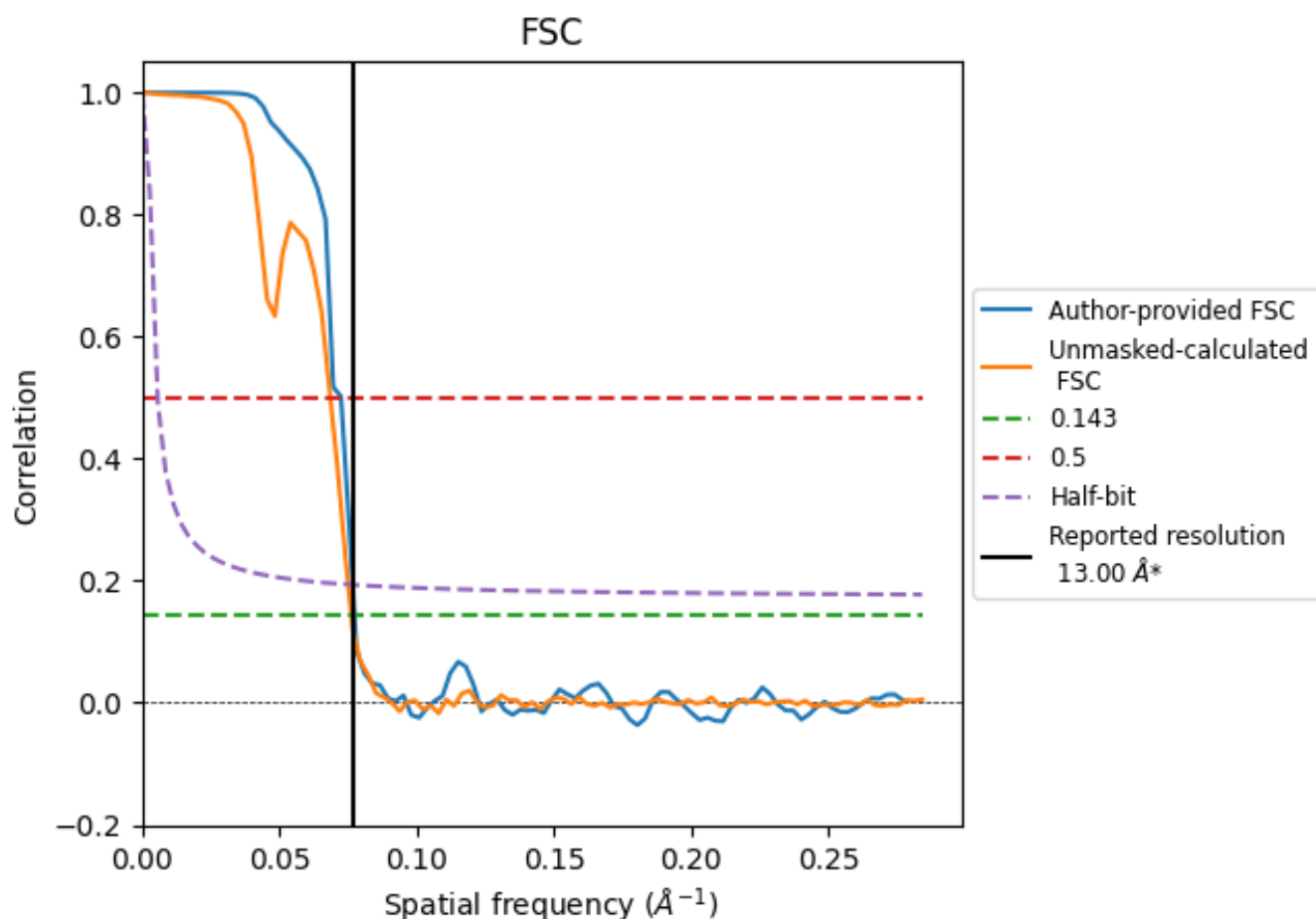


*Reported resolution corresponds to spatial frequency of 0.077 \AA^{-1}

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 0.077 Å⁻¹

8.2 Resolution estimates [i](#)

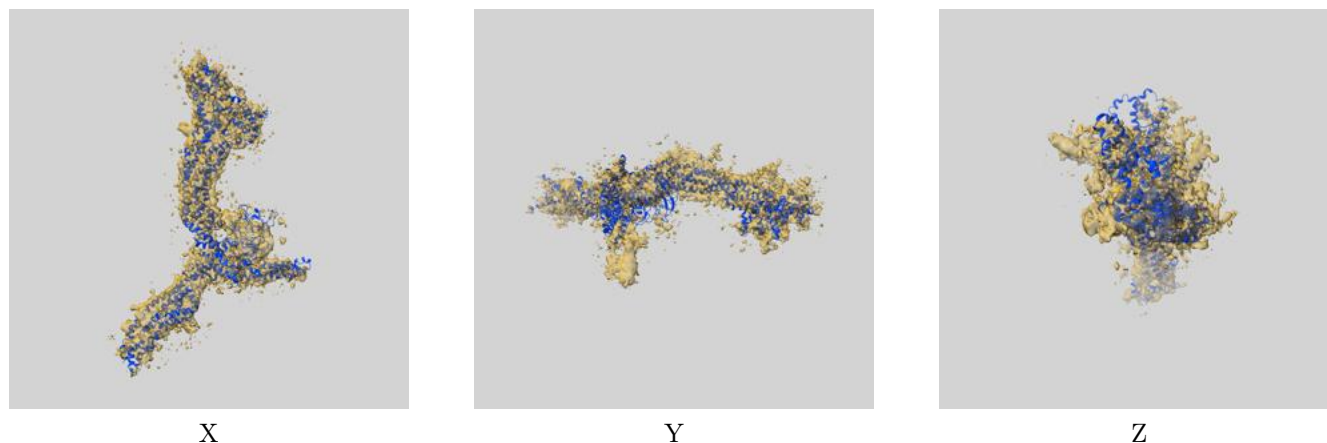
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	13.00	-	-
Author-provided FSC curve	12.94	13.79	13.04
Unmasked-calculated*	13.12	14.60	13.33

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

9 Map-model fit [i](#)

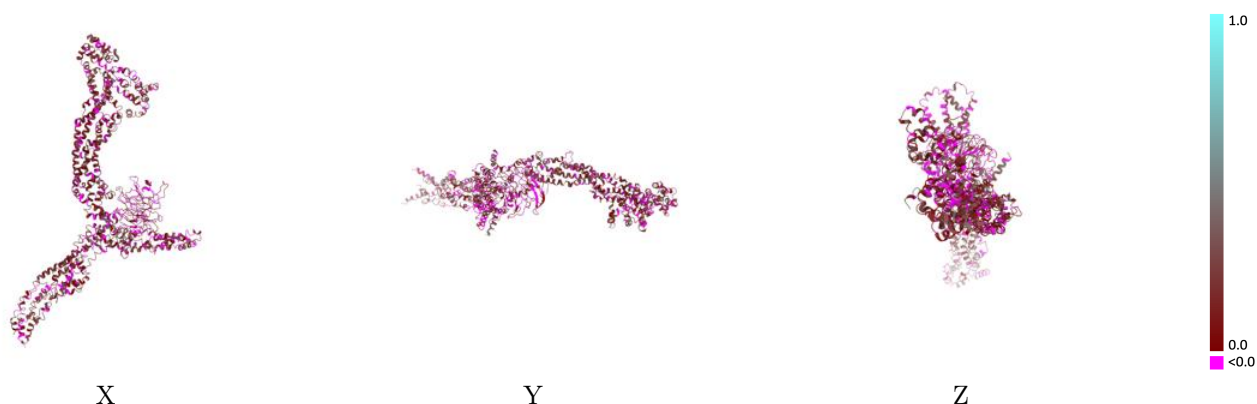
This section contains information regarding the fit between EMDB map EMD-49230 and PDB model 9NBI. Per-residue inclusion information can be found in section [3](#) on page [7](#).

9.1 Map-model overlay [i](#)



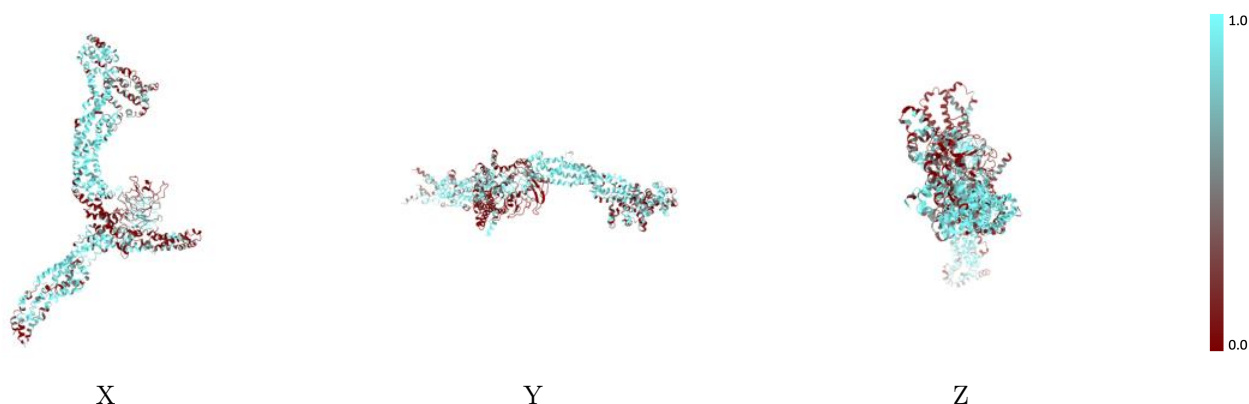
The images above show the 3D surface view of the map at the recommended contour level 0.31 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



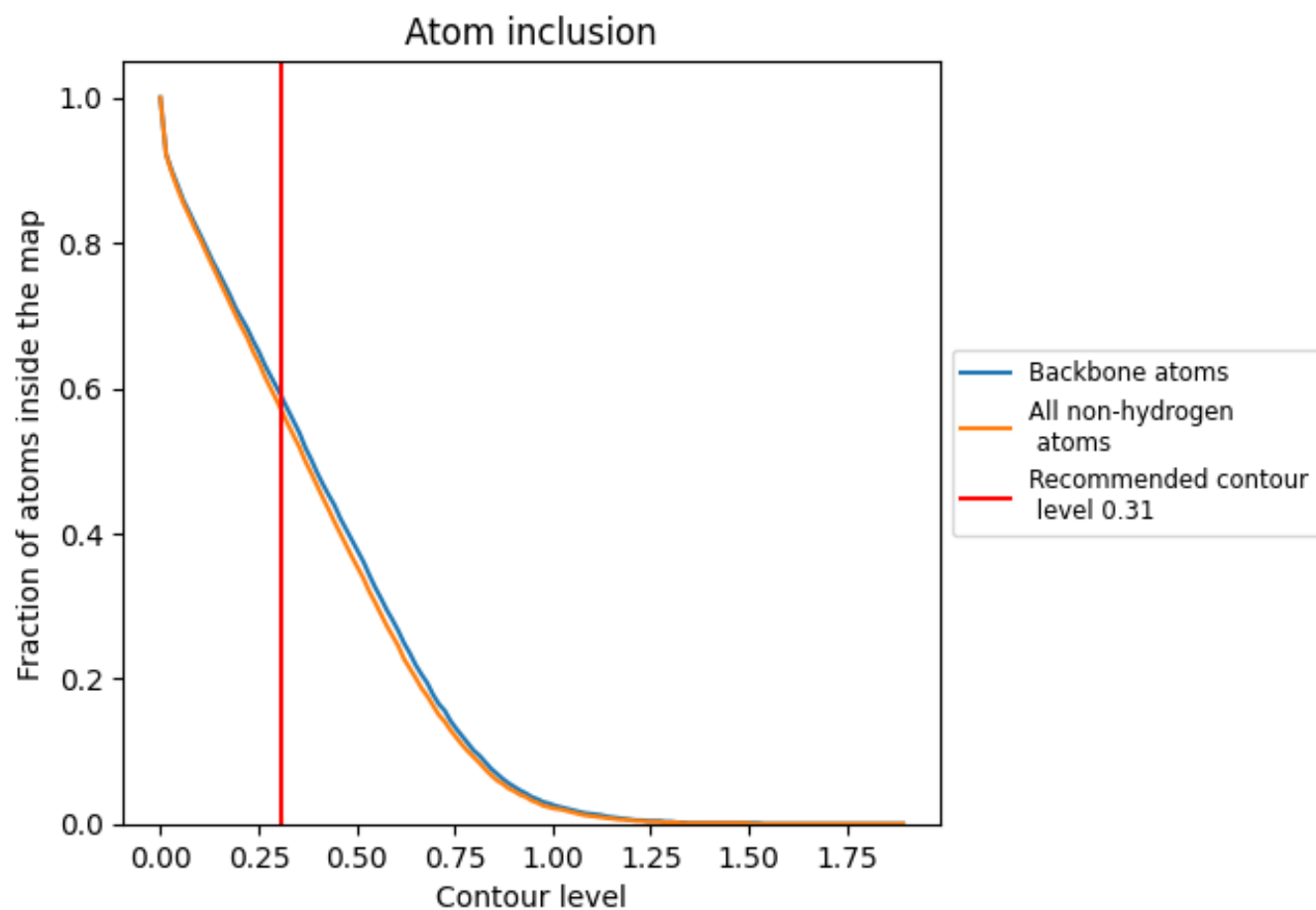
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.31).

9.4 Atom inclusion [i](#)



At the recommended contour level, 59% of all backbone atoms, 57% 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 (0.31) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	<div></div> 0.5680	<div></div> 0.1330
B	<div></div> 0.6480	<div></div> 0.1880
C	<div></div> 0.5660	<div></div> 0.1380
E	<div></div> 0.6200	<div></div> 0.1440
F	<div></div> 0.6240	<div></div> 0.1260
G	<div></div> 0.5160	<div></div> 0.1550
H	<div></div> 0.7620	<div></div> 0.1440
I	<div></div> 0.3780	<div></div> 0.0770

1.0

0.0

<0.0