



## wwPDB EM Validation Summary Report ⓘ

Jul 3, 2024 – 03:14 am BST

PDB ID : 7NJU  
EMDB ID : EMD-12423  
Title : Mycobacterium smegmatis ATP synthase Fo combined class 1  
Authors : Montgomery, M.G.; Petri, J.; Spikes, T.E.; Walker, J.E.  
Deposited on : 2021-02-17  
Resolution : 3.74 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](mailto: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>.

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

EMDB validation analysis : 0.0.1.dev92  
MolProbity : 4.02b-467  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
MapQ : 1.9.13  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.37.1

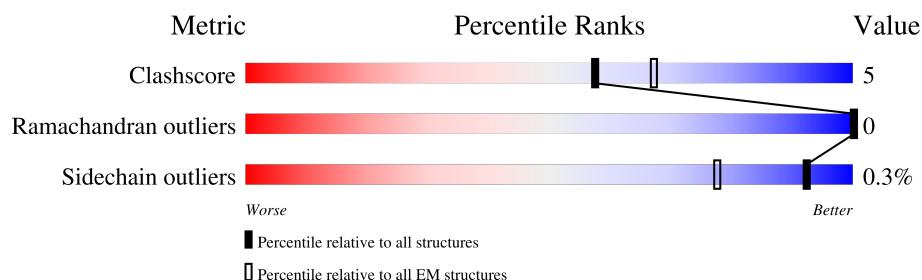
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*ELECTRON MICROSCOPY*

The reported resolution of this entry is 3.74 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	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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  $\geq 3$ , 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	L	86	<div> <div>13%</div> <div>86%</div> <div>12%</div> <div>.</div> </div>
1	M	86	<div> <div>9%</div> <div>81%</div> <div>16%</div> <div>.</div> </div>
1	N	86	<div> <div>9%</div> <div>83%</div> <div>15%</div> <div>.</div> </div>
1	O	86	<div> <div>10%</div> <div>85%</div> <div>13%</div> <div>.</div> </div>
1	P	86	<div> <div>6%</div> <div>85%</div> <div>13%</div> <div>.</div> </div>
1	Q	86	<div> <div>5%</div> <div>86%</div> <div>12%</div> <div>.</div> </div>
1	R	86	<div> <div>13%</div> <div>79%</div> <div>19%</div> <div>.</div> </div>
1	S	86	<div> <div>12%</div> <div>84%</div> <div>14%</div> <div>.</div> </div>

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Mol	Chain	Length	Quality of chain
1	T	86	<div><div></div><div>16%</div><div>85%</div><div>14%</div><div></div></div>
2	a	252	<div><div></div><div>19%</div><div>94%</div><div>6%</div><div></div></div>
3	b	180	<div><div></div><div>9%</div><div>34%</div><div>65%</div><div></div></div>
4	d	445	<div><div></div><div>14%</div><div>86%</div><div></div></div>

## 2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 16438 atoms, of which 8341 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 ATP synthase subunit c.

Mol	Chain	Residues	Atoms						AltConf	Trace
1	L	84	Total	C	H	N	O	S	0	0
			1192	387	603	96	104	2		
1	M	84	Total	C	H	N	O	S	0	0
			1192	387	603	96	104	2		
1	N	84	Total	C	H	N	O	S	0	0
			1192	387	603	96	104	2		
1	O	84	Total	C	H	N	O	S	0	0
			1192	387	603	96	104	2		
1	P	84	Total	C	H	N	O	S	0	0
			1192	387	603	96	104	2		
1	Q	84	Total	C	H	N	O	S	0	0
			1192	387	603	96	104	2		
1	R	84	Total	C	H	N	O	S	0	0
			1192	387	603	96	104	2		
1	S	84	Total	C	H	N	O	S	0	0
			1192	387	603	96	104	2		
1	T	85	Total	C	H	N	O	S	0	0
			1204	391	607	97	107	2		

- Molecule 2 is a protein called ATP synthase subunit a.

Mol	Chain	Residues	Atoms						AltConf	Trace
2	a	238	Total	C	H	N	O	S	0	0
			3767	1252	1916	292	301	6		

- Molecule 3 is a protein called ATP synthase subunit b.

Mol	Chain	Residues	Atoms						AltConf	Trace
3	b	63	Total	C	H	N	O	S	0	0
			979	312	503	79	84	1		

There are 10 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
b	171	HIS	-	expression tag	UNP A0R204
b	172	HIS	-	expression tag	UNP A0R204
b	173	HIS	-	expression tag	UNP A0R204
b	174	HIS	-	expression tag	UNP A0R204
b	175	HIS	-	expression tag	UNP A0R204
b	176	HIS	-	expression tag	UNP A0R204
b	177	HIS	-	expression tag	UNP A0R204
b	178	HIS	-	expression tag	UNP A0R204
b	179	HIS	-	expression tag	UNP A0R204
b	180	HIS	-	expression tag	UNP A0R204

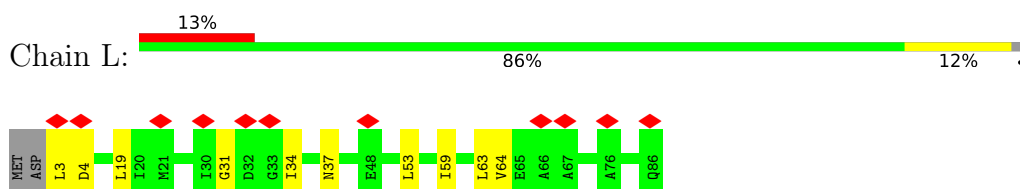
- Molecule 4 is a protein called ATP synthase subunit b-delta.

Mol	Chain	Residues	Atoms						AltConf	Trace
4	d	61	Total	C	H	N	O	S	0	0
			952	299	491	81	78	3		

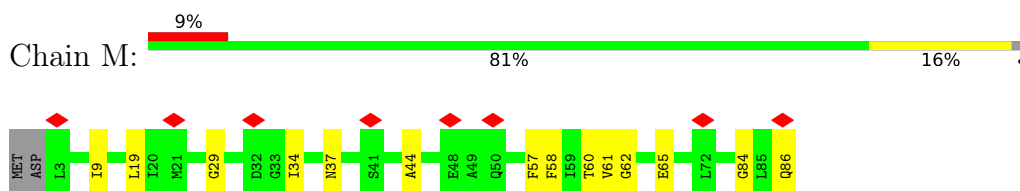
### 3 Residue-property plots [i](#)

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.

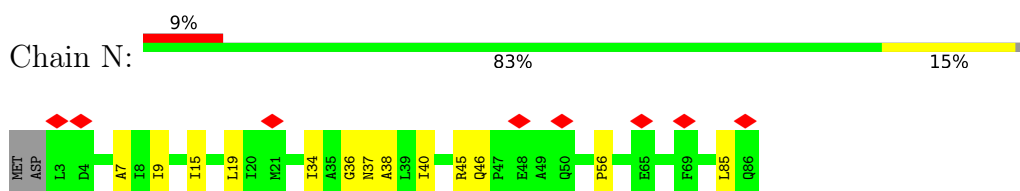
- Molecule 1: ATP synthase subunit c



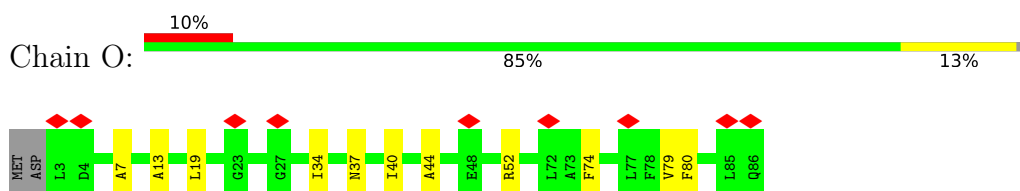
- Molecule 1: ATP synthase subunit c



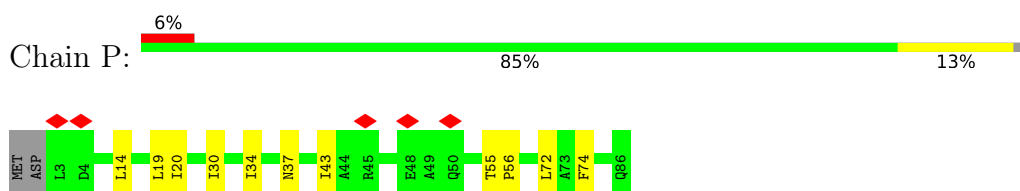
- Molecule 1: ATP synthase subunit c



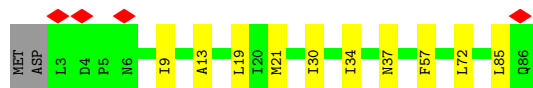
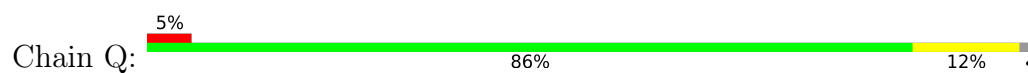
- Molecule 1: ATP synthase subunit c



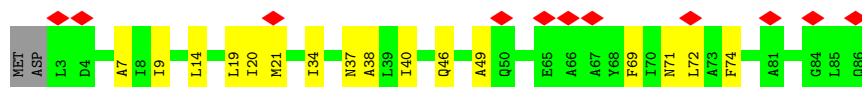
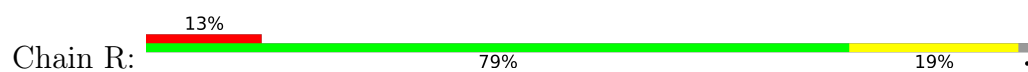
- Molecule 1: ATP synthase subunit c



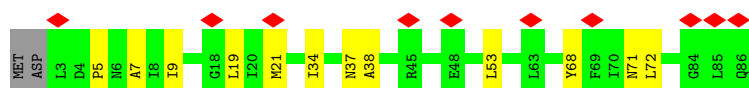
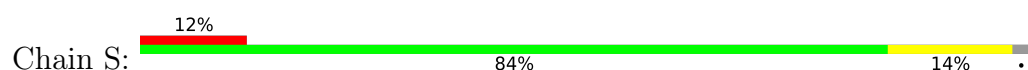
- Molecule 1: ATP synthase subunit c



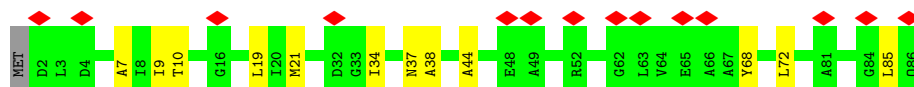
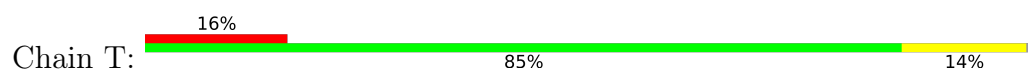
- Molecule 1: ATP synthase subunit c



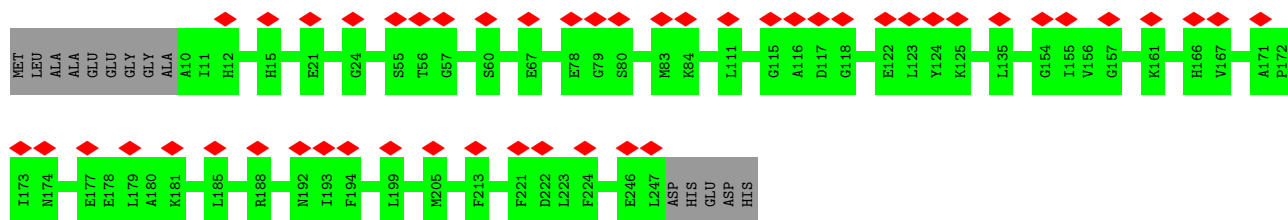
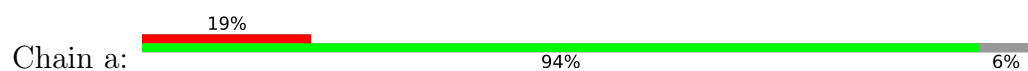
- Molecule 1: ATP synthase subunit c



- Molecule 1: ATP synthase subunit c



- Molecule 2: ATP synthase subunit a



- Molecule 3: ATP synthase subunit b



LEU ALA SER ARG ILE LEU GLY VAL ASP VAL ASN SER GLY GLY THR GLN HIS HIS HIS HIS HIS HIS HIS HIS HIS HIS

- Molecule 4: ATP synthase subunit b-delta



M1
S2
I3
Q7
F11
A12
V13
I14
R38
L41
E46
D55
A56
M57
H58
A59
K60
A61
LEU
ALA
ASP
ALA
ALA
LYS
ALA
GLU
SER
GLR
GLU
LYS
VAL
THR
GLU
GLU
ALA
LYS
GLN
ASP
SER
GLU
ARG
ILE
ALA
ALA
GLN
LEU
SER
SER
GLU
ALA
GLU
ASP

ILE	LYS	ALA	ALA	GLN	GLY	ALA	GLN	GLN	ILE	GLN	LEU	MET	ARG	GLN	GLN	GLN	ARG	GLN	LEU	ILE	GLY	GLY	ALA	GLU	ALA	ALA	VAL	ASN	LYS	ALA	ALA	GLU	ILE	VAL	ASP	PRO	GLN	ALA	ALA	GLN	SER	ASP	ARG	PHE	LEU	LEU	GLU	GLN	MET
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[illegible][illegible]

ALA LEU LEU LEU LYS ARG ALA ALA ILE GLU GLU ASP ASP VAL VAL GLU GLU GLN LEU PHE ARG ARG PHE GLY ARG VAL LEU ASP ALA GLU PRO ARG LEU SER SER ASP TYR THR THR PRO ALA GLU GLY ARG VAL ALA LEU LEU ASP LYS ALA LEU THR GLY ARG PRO GLY VAL

[illegible]

SER	ARG	ILE	TYR	GLY	ARG	PRO	VAL	SER	VAL	GLN	LEU	HIS	VAL	ASP	PRO	GLU	LEU	LEU	GLY	GLY	LEU	SER	ILE	THR	VAL	GLY	ASP	VAL	VAL	ILE	GLY	SER	ALA	SER	ARG	LEU	ALA	ALA	ALA	GLN	THR	GLY	LEU	PRO	SER
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## 4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	49823	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ( $e^-/\text{\AA}^2$ )	59.86	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	0.039	Depositor
Minimum map value	-0.016	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.001	Depositor
Recommended contour level	0.0143	Depositor
Map size (Å)	415.0, 415.0, 415.0	wwPDB
Map dimensions	500, 500, 500	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.83, 0.83, 0.83	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	L	0.26	0/600	0.45	0/814
1	M	0.26	0/600	0.43	0/814
1	N	0.27	0/600	0.45	0/814
1	O	0.27	0/600	0.45	0/814
1	P	0.27	0/600	0.44	0/814
1	Q	0.26	0/600	0.44	0/814
1	R	0.27	0/600	0.45	0/814
1	S	0.26	0/600	0.44	0/814
1	T	0.26	0/608	0.42	0/825
2	a	0.26	0/1905	0.42	0/2602
3	b	0.26	0/484	0.40	0/658
4	d	0.26	0/468	0.42	0/632
All	All	0.26	0/8265	0.43	0/11229

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

### 5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	L	589	603	603	10	0
1	M	589	603	603	15	0
1	N	589	603	603	15	0
1	O	589	603	603	13	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	P	589	603	603	12	0
1	Q	589	603	603	10	0
1	R	589	603	603	15	0
1	S	589	603	603	15	0
1	T	597	607	607	13	0
2	a	1851	1916	1916	0	0
3	b	476	503	503	0	0
4	d	461	491	491	0	0
All	All	8097	8341	8341	67	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 5.

The worst 5 of 67 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:M:61:VAL:HG12	1:M:65:GLU:OE2	1.86	0.75
1:S:71:ASN:OD1	1:T:68:TYR:OH	2.06	0.72
1:R:9:ILE:HD11	1:S:7:ALA:HA	1.72	0.69
1:M:19:LEU:HD22	1:N:19:LEU:HD22	1.73	0.69
1:R:21:MET:HE1	1:R:72:LEU:HD12	1.75	0.68

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	L	82/86 (95%)	82 (100%)	0	0	100	100
1	M	82/86 (95%)	76 (93%)	6 (7%)	0	100	100
1	N	82/86 (95%)	81 (99%)	1 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	O	82/86 (95%)	82 (100%)	0	0	100	100
1	P	82/86 (95%)	76 (93%)	6 (7%)	0	100	100
1	Q	82/86 (95%)	79 (96%)	3 (4%)	0	100	100
1	R	82/86 (95%)	77 (94%)	5 (6%)	0	100	100
1	S	82/86 (95%)	82 (100%)	0	0	100	100
1	T	83/86 (96%)	79 (95%)	4 (5%)	0	100	100
2	a	236/252 (94%)	220 (93%)	16 (7%)	0	100	100
3	b	61/180 (34%)	58 (95%)	3 (5%)	0	100	100
4	d	59/445 (13%)	59 (100%)	0	0	100	100
All	All	1095/1651 (66%)	1051 (96%)	44 (4%)	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	L	54/56 (96%)	54 (100%)	0	100	100
1	M	54/56 (96%)	54 (100%)	0	100	100
1	N	54/56 (96%)	53 (98%)	1 (2%)	57	76
1	O	54/56 (96%)	54 (100%)	0	100	100
1	P	54/56 (96%)	54 (100%)	0	100	100
1	Q	54/56 (96%)	54 (100%)	0	100	100
1	R	54/56 (96%)	54 (100%)	0	100	100
1	S	54/56 (96%)	54 (100%)	0	100	100
1	T	55/56 (98%)	55 (100%)	0	100	100
2	a	191/200 (96%)	191 (100%)	0	100	100
3	b	50/134 (37%)	49 (98%)	1 (2%)	55	75
4	d	45/347 (13%)	45 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
All	All	773/1185 (65%)	771 (100%)	2 (0%)	92	96

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	N	45	ARG
3	b	66	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
2	a	192	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 monosaccharides 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.

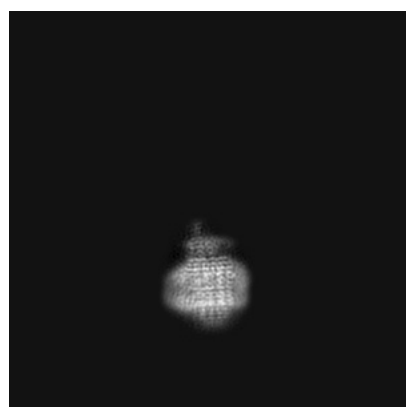
## 6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-12423. These allow visual inspection of the internal detail of the map and identification of artifacts.

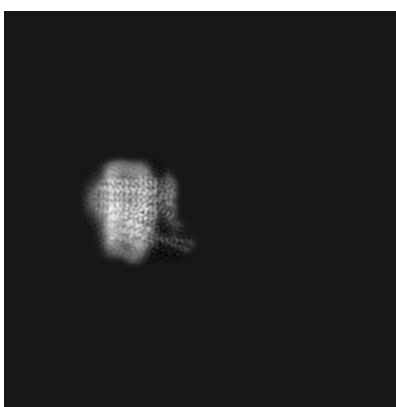
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

### 6.1 Orthogonal projections [i](#)

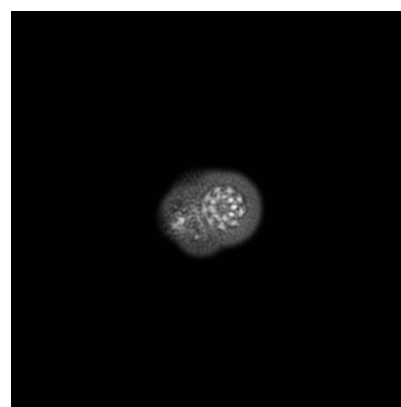
#### 6.1.1 Primary map



X



Y



Z

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

### 6.2 Central slices [i](#)

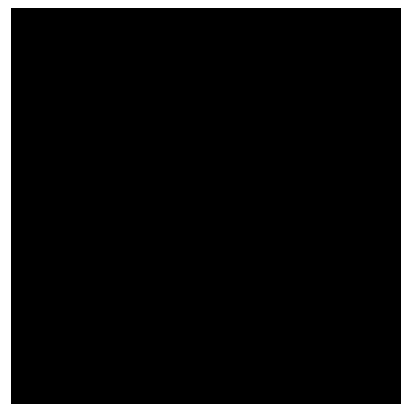
#### 6.2.1 Primary map



X Index: 250



Y Index: 250



Z Index: 250

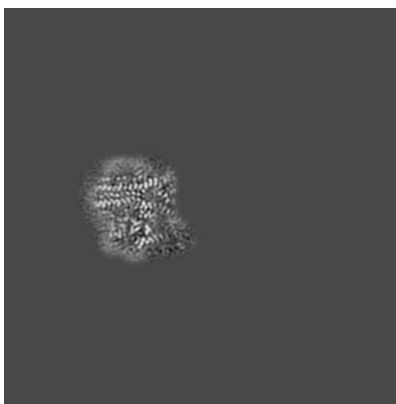
The images above show central slices of the map in three orthogonal directions.

## 6.3 Largest variance slices [i](#)

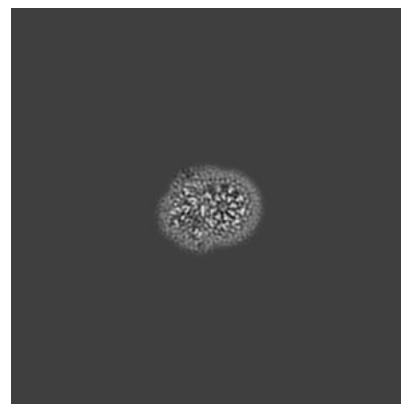
### 6.3.1 Primary map



X Index: 275



Y Index: 243

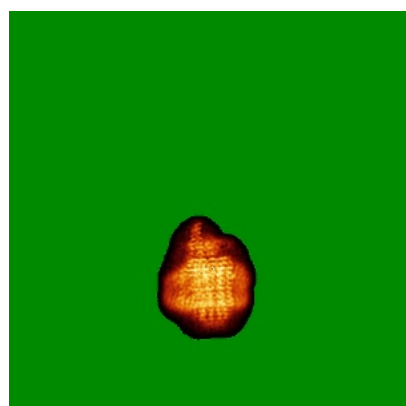


Z Index: 170

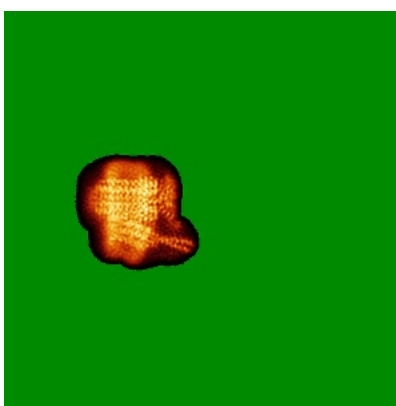
The images above show the largest variance slices of the map in three orthogonal directions.

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

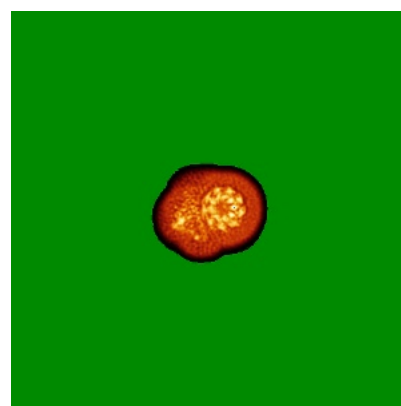
### 6.4.1 Primary map



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 0.0143. 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](#)

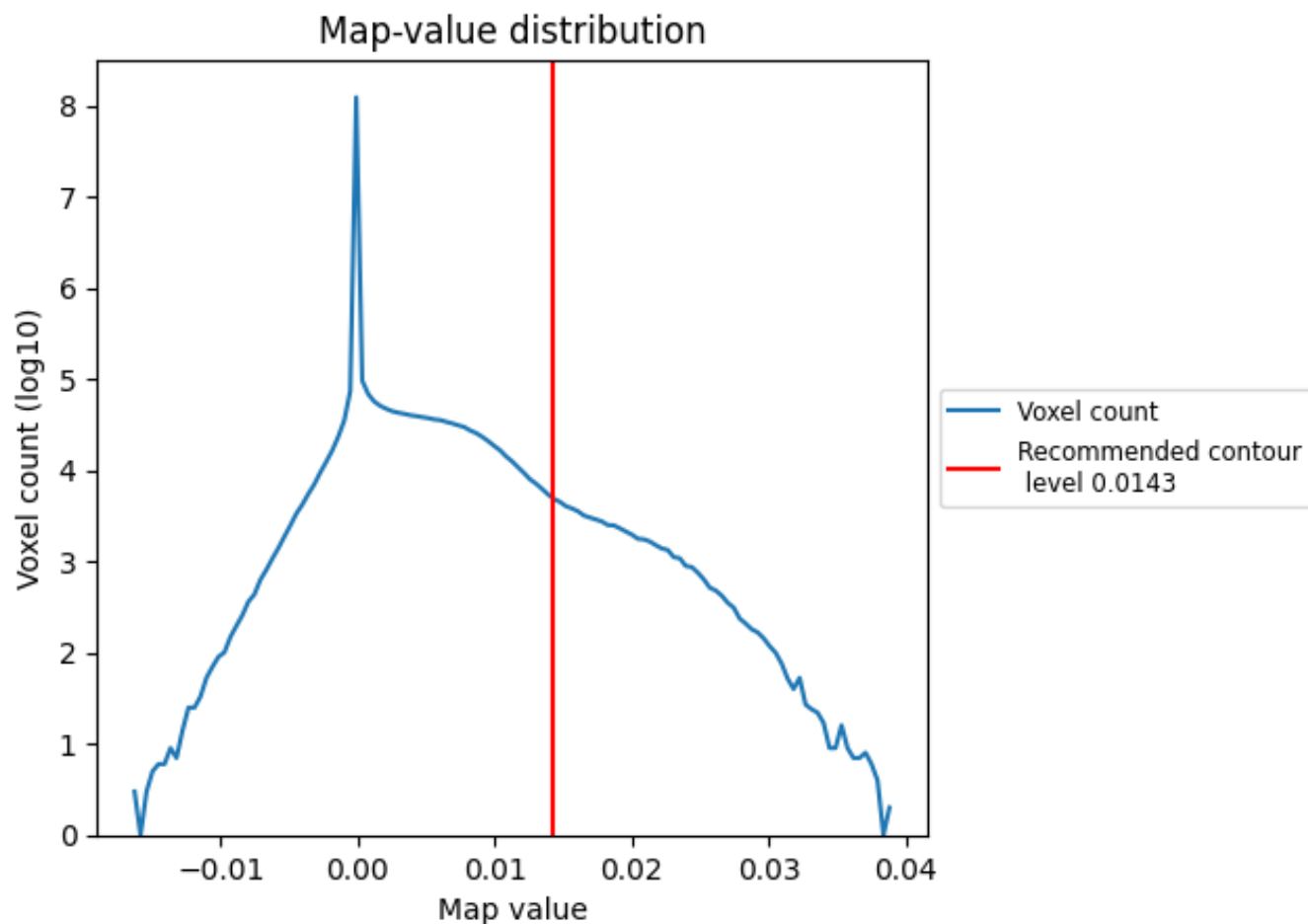
This section was not generated. No masks/segmentation were deposited.



## 7 Map analysis [i](#)

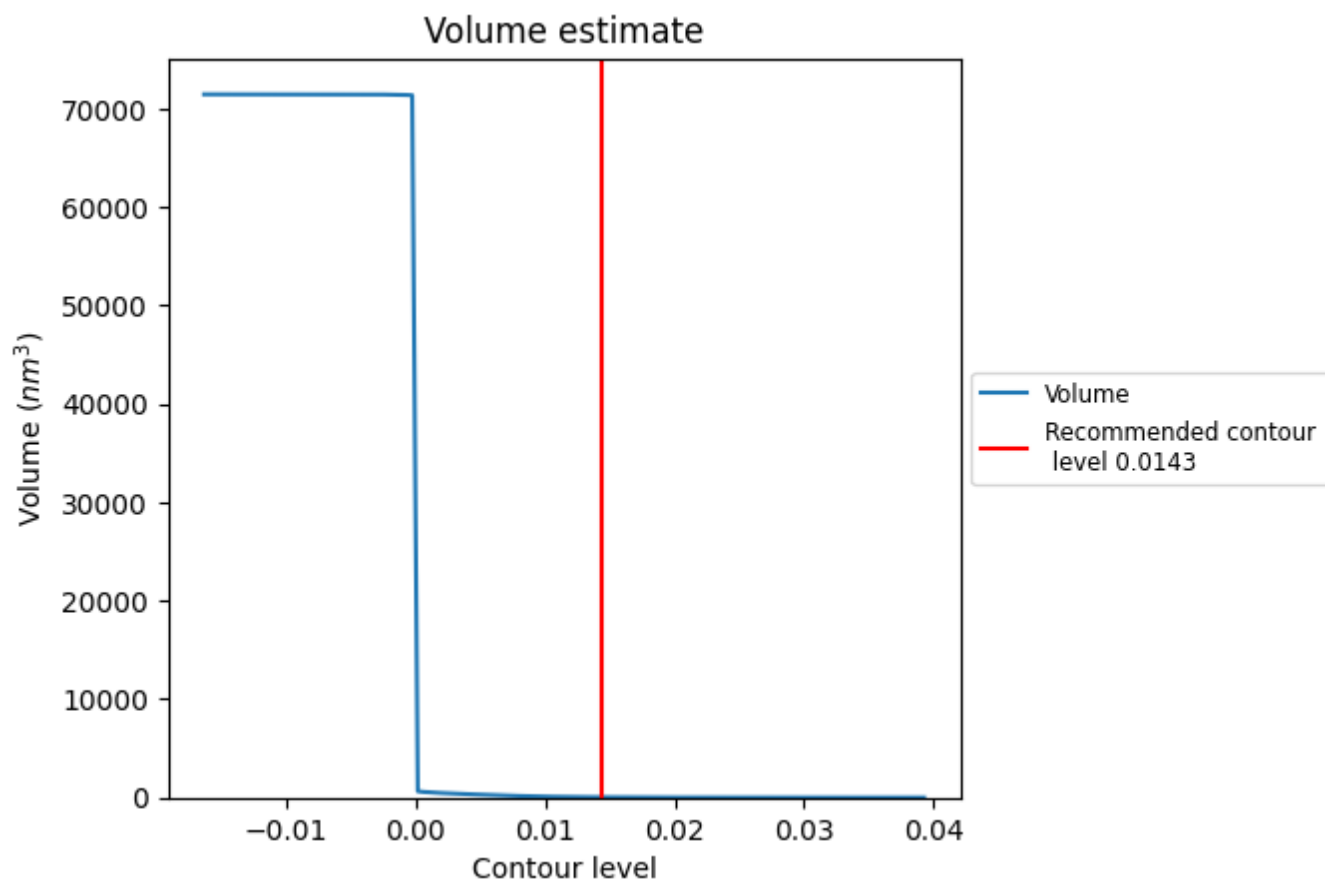
This section contains the results of statistical analysis of the map.

### 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.

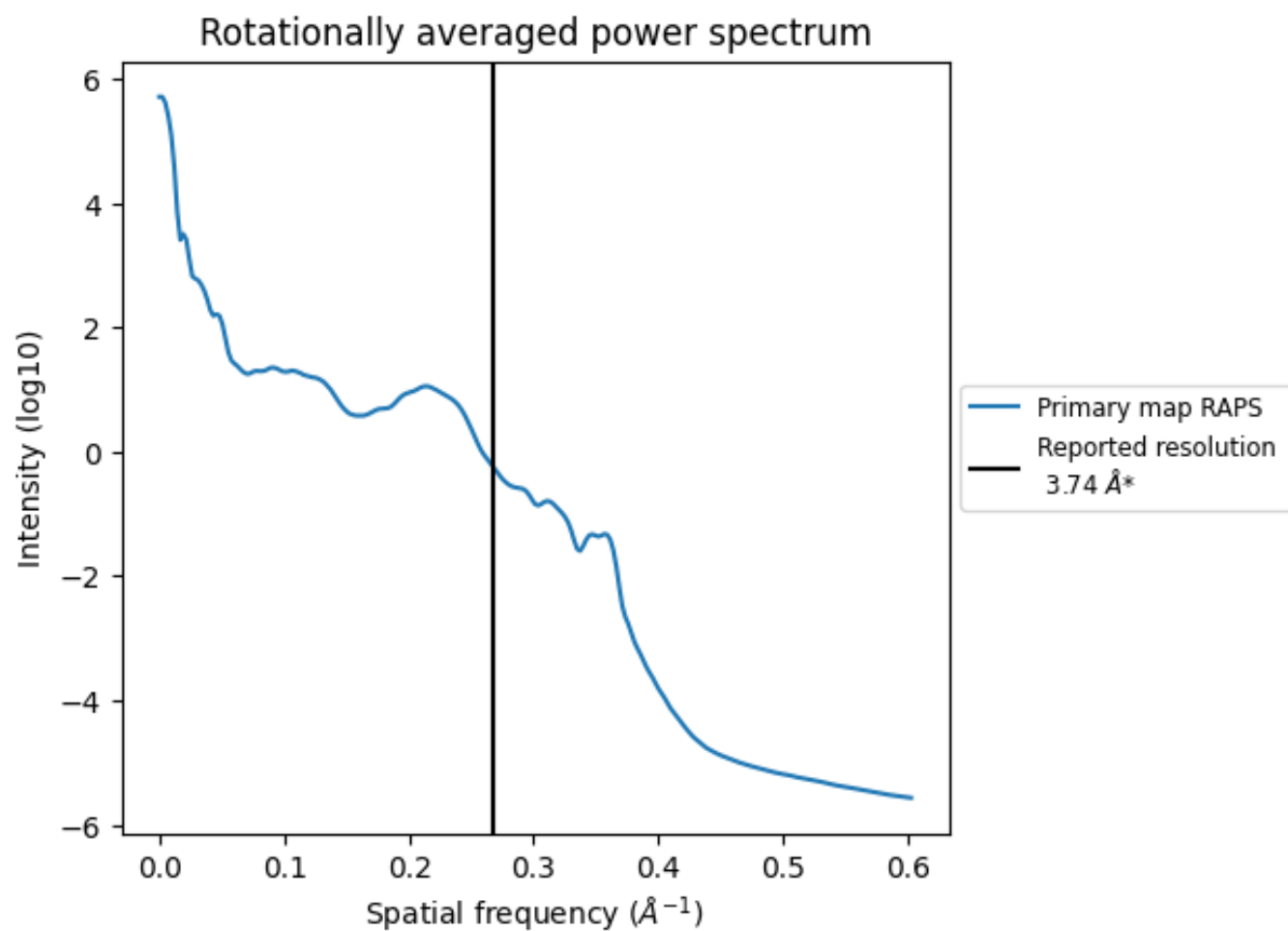
## 7.2 Volume estimate [i](#)



The volume at the recommended contour level is 36  $\text{nm}^3$ ; this corresponds to an approximate mass of 32 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 ⓘ

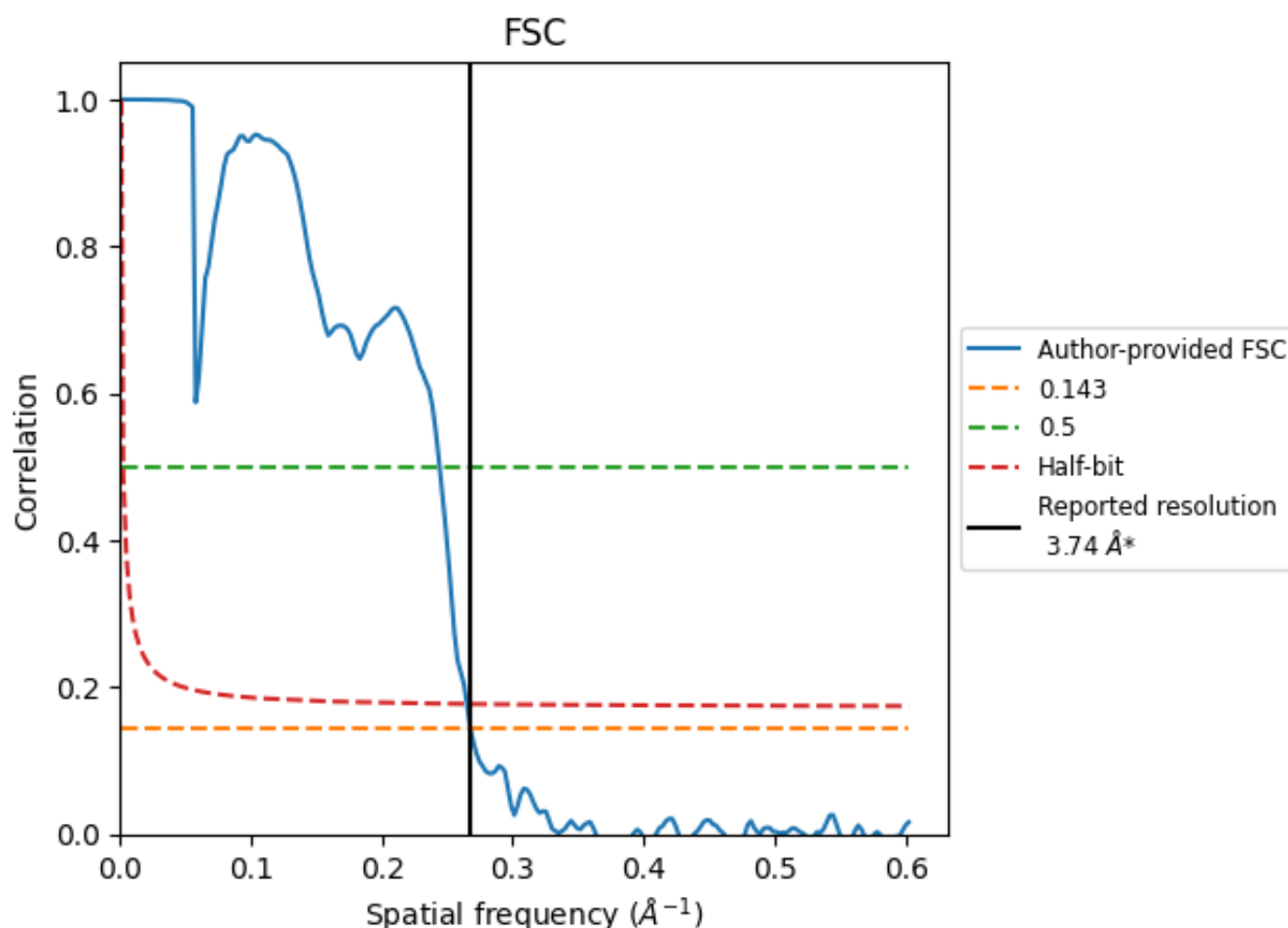


\*Reported resolution corresponds to spatial frequency of 0.267 Å<sup>-1</sup>

## 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 0.267 Å<sup>-1</sup>

## 8.2 Resolution estimates [i](#)

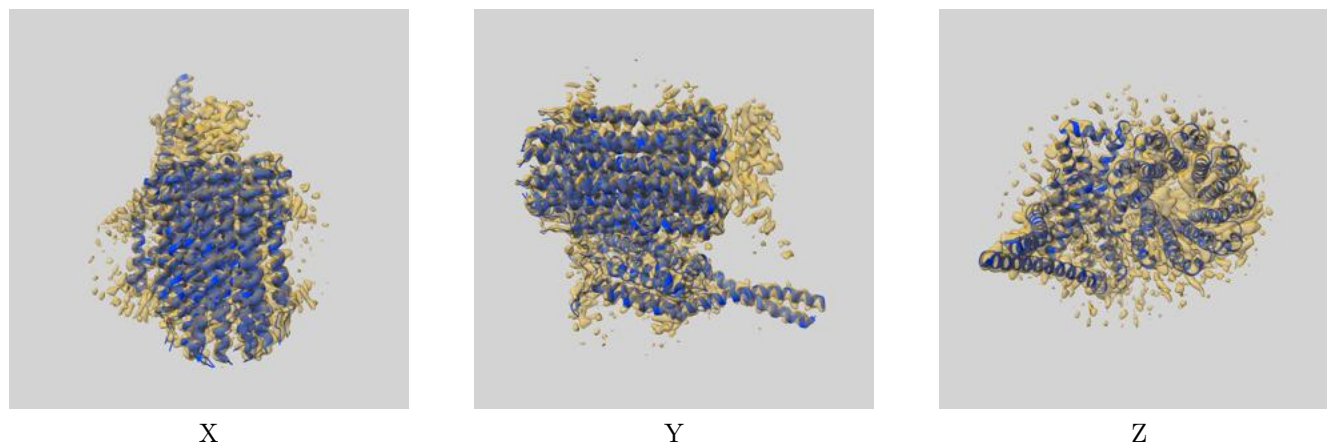
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.74	-	-
Author-provided FSC curve	3.74	4.10	3.78
Unmasked-calculated*	-	-	-

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

## 9 Map-model fit [i](#)

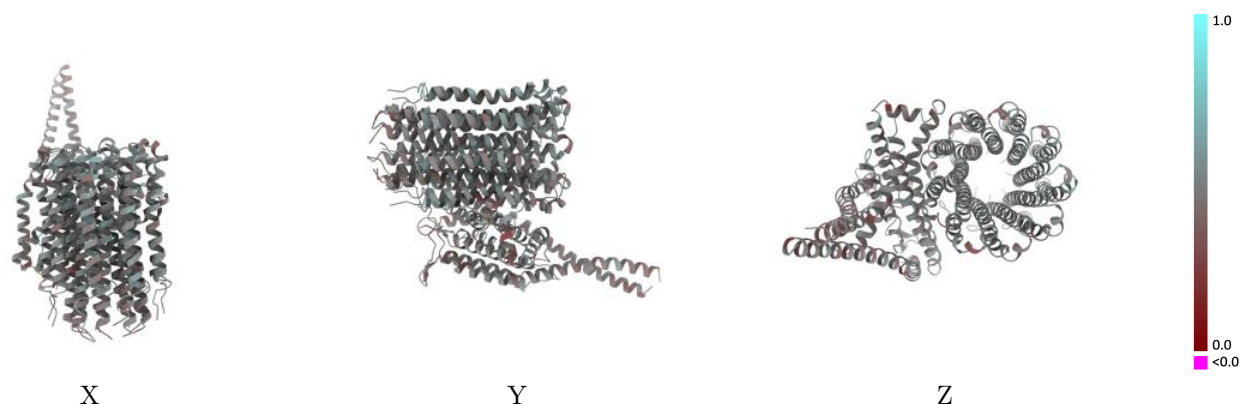
This section contains information regarding the fit between EMDB map EMD-12423 and PDB model 7NJU. Per-residue inclusion information can be found in [section 3](#) on [page 6](#).

### 9.1 Map-model overlay [i](#)



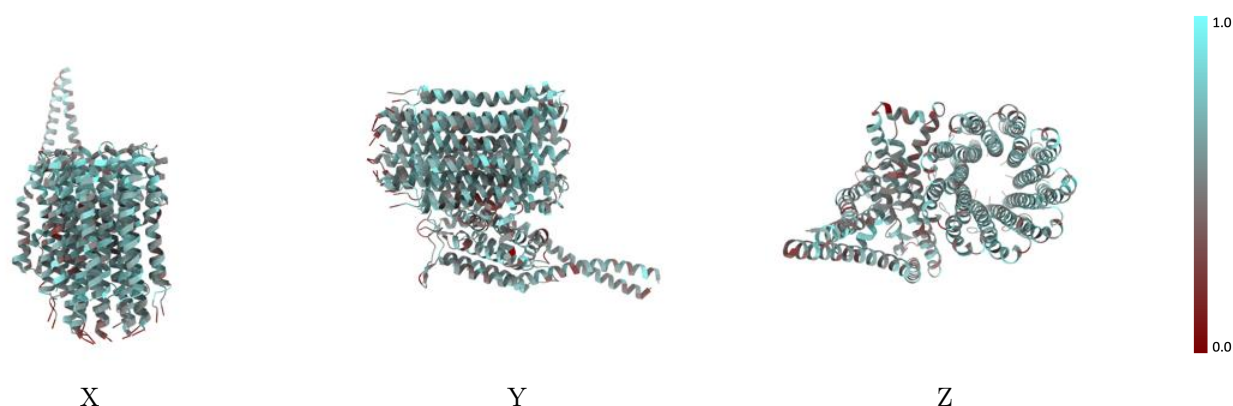
The images above show the 3D surface view of the map at the recommended contour level 0.0143 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



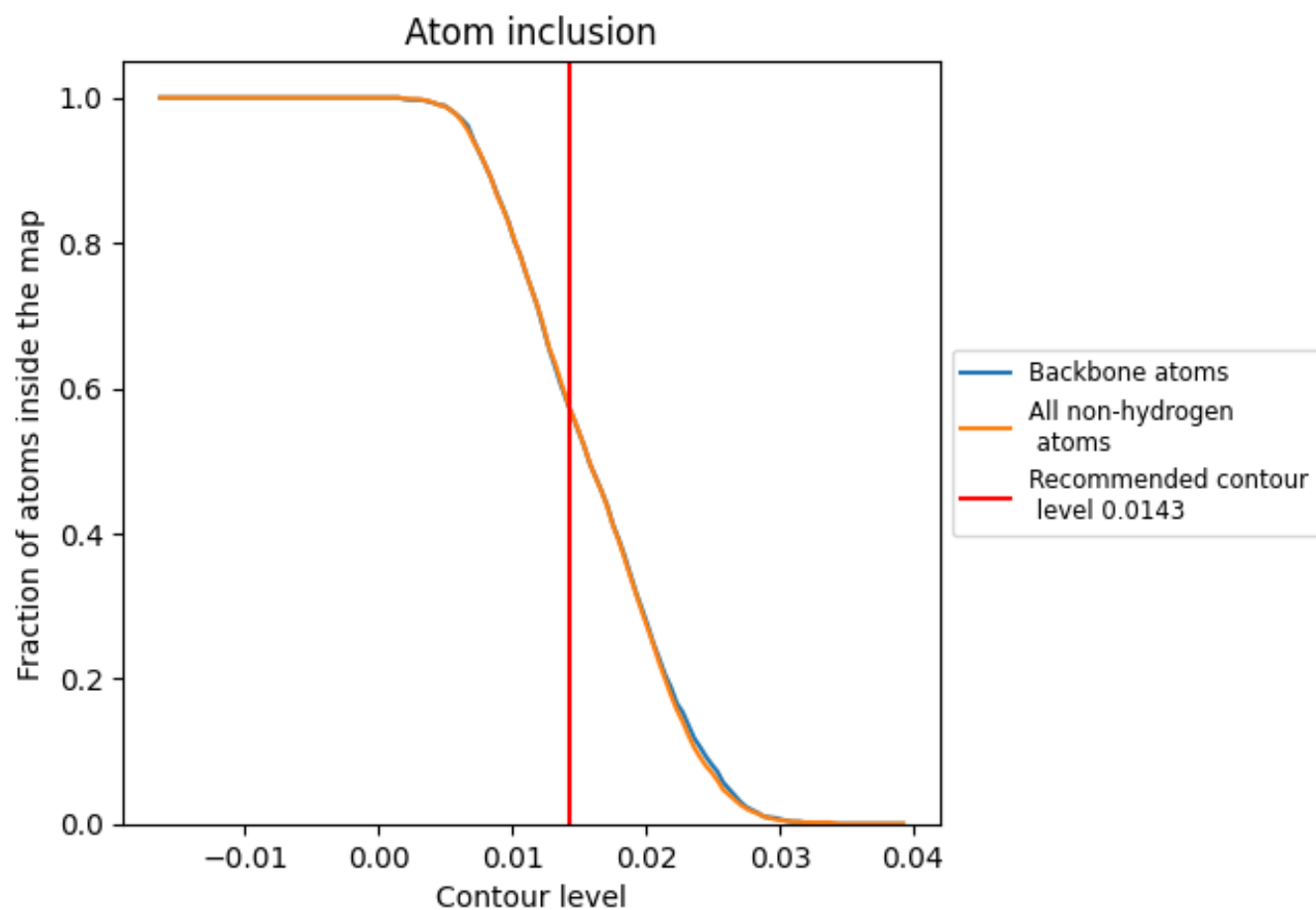
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.0143).

## 9.4 Atom inclusion [i](#)



At the recommended contour level, 57% 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 (0.0143) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	<div><div></div>0.5720</div>	<div><div></div>0.4750</div>
L	<div><div></div>0.5840</div>	<div><div></div>0.4790</div>
M	<div><div></div>0.5990</div>	<div><div></div>0.4790</div>
N	<div><div></div>0.5890</div>	<div><div></div>0.4820</div>
O	<div><div></div>0.5870</div>	<div><div></div>0.4840</div>
P	<div><div></div>0.6220</div>	<div><div></div>0.4960</div>
Q	<div><div></div>0.6250</div>	<div><div></div>0.4940</div>
R	<div><div></div>0.5840</div>	<div><div></div>0.4790</div>
S	<div><div></div>0.5990</div>	<div><div></div>0.4810</div>
T	<div><div></div>0.6030</div>	<div><div></div>0.4830</div>
a	<div><div></div>0.5430</div>	<div><div></div>0.4650</div>
b	<div><div></div>0.5560</div>	<div><div></div>0.4450</div>
d	<div><div></div>0.5330</div>	<div><div></div>0.4360</div>

1.0

0.0

<0.0