



Full wwPDB EM Validation Report ⓘ

Mar 24, 2026 – 02:44 AM UTC

PDB ID : 9CEV / pdb_00009cev
EMDB ID : EMD-45520
Title : Spizellomyces punctatus Fanzor (SpuFz) State 2
Authors : Xu, P.; Saito, M.; Zhang, F.
Deposited on : 2024-06-27
Resolution : 3.26 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:

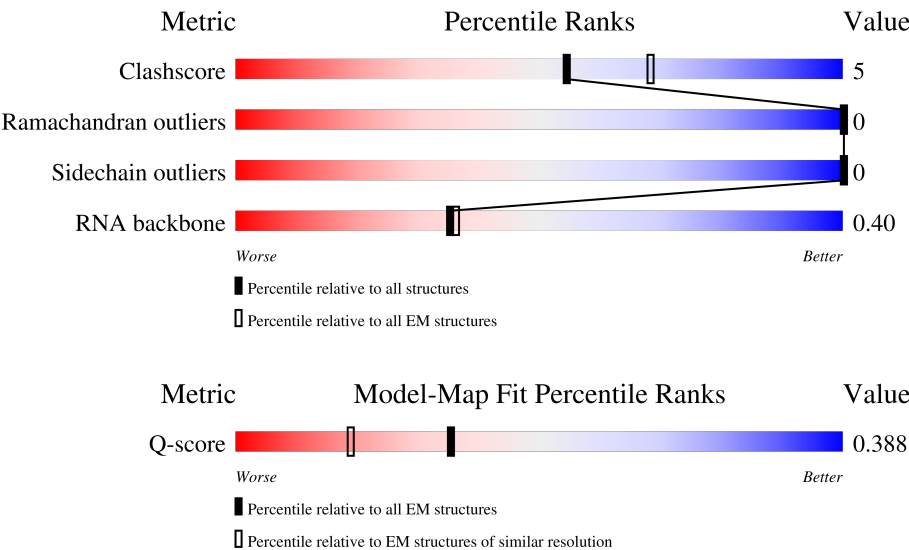
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & 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 3.26 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	-
RNA backbone	8273	3508	-
Q-score	-	25397	14557 (2.76 - 3.76)

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	N	54	 26% 72%
2	P	1032	 53% 5% 42%
3	T	54	 9% 57% 7% 35%

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Mol	Chain	Length	Quality of chain
4	W	96	12% 34% 17% 33% 16%

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 14041 atoms, of which 6350 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 DNA chain called DNA (5'-D(P*CP*GP*GP*TP*AP*CP*CP*CP*GP*GP*GP*CP*AP*TP*A)-3').

Mol	Chain	Residues	Atoms						AltConf	Trace
1	N	15	Total	C	H	N	O	P	0	0
			475	145	167	59	89	15		

- Molecule 2 is a protein called Maltose/maltodextrin-binding periplasmic protein, *Spizellomyces punctatus* Fanzor 1.

Mol	Chain	Residues	Atoms						AltConf	Trace
2	P	600	Total	C	H	N	O	S	0	0
			9863	3140	4917	894	880	32		

There are 29 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
P	-393	MET	-	expression tag	UNP P0AEX9
P	-392	LYS	-	expression tag	UNP P0AEX9
P	-391	SER	-	expression tag	UNP P0AEX9
P	-390	SER	-	expression tag	UNP P0AEX9
P	-389	HIS	-	expression tag	UNP P0AEX9
P	-388	HIS	-	expression tag	UNP P0AEX9
P	-387	HIS	-	expression tag	UNP P0AEX9
P	-386	HIS	-	expression tag	UNP P0AEX9
P	-385	HIS	-	expression tag	UNP P0AEX9
P	-384	HIS	-	expression tag	UNP P0AEX9
P	-383	HIS	-	expression tag	UNP P0AEX9
P	-382	HIS	-	expression tag	UNP P0AEX9
P	-381	HIS	-	expression tag	UNP P0AEX9
P	-380	HIS	-	expression tag	UNP P0AEX9
P	-379	GLY	-	expression tag	UNP P0AEX9
P	-378	SER	-	expression tag	UNP P0AEX9
P	-377	SER	-	expression tag	UNP P0AEX9
P	-376	MET	-	expression tag	UNP P0AEX9
P	-9	GLY	-	linker	UNP P0AEX9

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Chain	Residue	Modelled	Actual	Comment	Reference
P	-8	SER	-	linker	UNP P0AEX9
P	-7	GLU	-	linker	UNP P0AEX9
P	-6	ASN	-	linker	UNP P0AEX9
P	-5	LEU	-	linker	UNP P0AEX9
P	-4	TYR	-	linker	UNP P0AEX9
P	-3	PHE	-	linker	UNP P0AEX9
P	-2	GLN	-	linker	UNP P0AEX9
P	-1	SER	-	linker	UNP P0AEX9
P	0	ASN	-	linker	UNP P0AEX9
P	1	ALA	-	linker	UNP P0AEX9

- Molecule 3 is a DNA chain called DNA (35-MER).

Mol	Chain	Residues	Atoms						AltConf	Trace
3	T	35	Total	C	H	N	O	P	0	0
			1111	342	396	126	212	35		

- Molecule 4 is a RNA chain called RNA (81-MER).

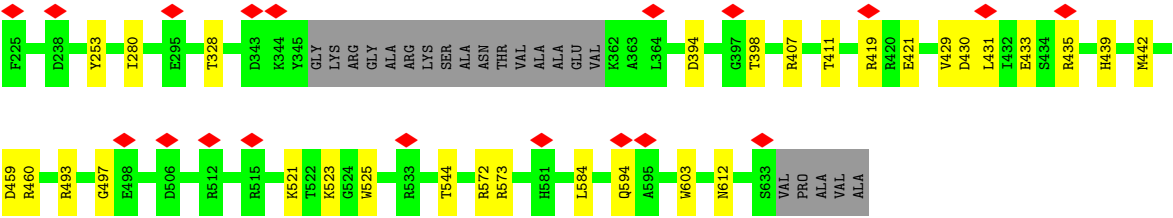
Mol	Chain	Residues	Atoms						AltConf	Trace
4	W	81	Total	C	H	N	O	P	0	0
			2589	767	870	298	573	81		

- Molecule 5 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

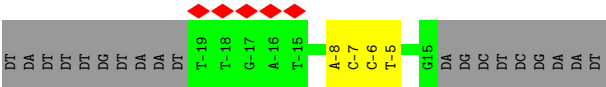
Mol	Chain	Residues	Atoms		AltConf
5	P	2	Total	Mg	0
			2	2	

- Molecule 6 is ZINC ION (CCD ID: ZN) (formula: Zn).

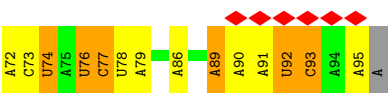
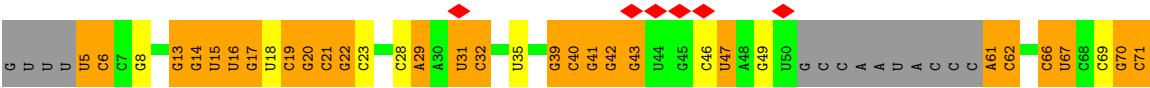
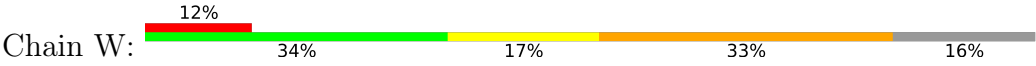
Mol	Chain	Residues	Atoms		AltConf
6	P	1	Total	Zn	0
			1	1	



• Molecule 3: DNA (35-MER)



• Molecule 4: RNA (81-MER)



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	31906	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	52.51	Depositor
Minimum defocus (nm)	500	Depositor
Maximum defocus (nm)	2500	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	2.042	Depositor
Minimum map value	-0.019	Depositor
Average map value	0.002	Depositor
Map value standard deviation	0.033	Depositor
Recommended contour level	0.15	Depositor
Map size ($\text{\AA}$)	211.2, 211.2, 211.2	wwPDB
Map dimensions	256, 256, 256	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	0.825, 0.825, 0.825	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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

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	N	0.17	0/345	0.87	0/530
2	P	0.07	0/5068	0.19	0/6844
3	T	0.20	0/800	0.90	0/1232
4	W	0.16	0/1917	0.67	0/2982
All	All	0.12	0/8130	0.51	0/11588

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	N	308	167	168	1	0
2	P	4946	4917	4911	32	0
3	T	715	396	397	3	0
4	W	1719	870	872	44	0
5	P	2	0	0	0	0
6	P	1	0	0	0	0
All	All	7691	6350	6348	72	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.

All (72) 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)
4:W:76:U:O2'	4:W:77:C:O5'	1.90	0.90
4:W:20:G:O2'	4:W:21:C:OP1	2.05	0.75
2:P:45:TYR:HH	2:P:131:SER:HG	1.31	0.75
4:W:13:G:O2'	4:W:14:G:OP1	2.03	0.75
4:W:28:C:O2'	4:W:29:A:O5'	2.05	0.75
2:P:407:ARG:NH1	3:T:-6:DC:OP1	2.20	0.74
4:W:16:U:O2'	4:W:17:G:OP1	2.06	0.74
4:W:92:U:O2'	4:W:93:C:OP1	2.04	0.74
2:P:435:ARG:NH1	4:W:89:A:OP1	2.20	0.74
4:W:69:C:O2'	4:W:70:G:O5'	2.07	0.72
4:W:15:U:O2'	4:W:16:U:O5'	2.05	0.72
4:W:61:A:O2'	4:W:62:C:OP1	2.07	0.70
4:W:19:C:O2'	4:W:20:G:OP1	2.10	0.70
4:W:31:U:O2'	4:W:32:C:OP1	2.13	0.66
2:P:407:ARG:O	2:P:411:THR:OG1	2.02	0.63
4:W:76:U:O2'	4:W:77:C:O4'	2.19	0.61
4:W:78:U:O4	4:W:79:A:N6	2.34	0.61
4:W:66:C:O2'	4:W:67:U:OP1	2.20	0.59
2:P:200:GLU:N	2:P:200:GLU:OE1	2.35	0.59
2:P:115:CYS:O	2:P:119:GLY:N	2.36	0.58
2:P:421:GLU:OE2	4:W:86:A:O2'	2.17	0.57
4:W:5:U:O2'	4:W:6:C:OP2	2.19	0.57
4:W:41:G:O2'	4:W:42:G:OP1	2.23	0.56
4:W:39:G:O2'	4:W:40:C:OP1	2.24	0.55
4:W:13:G:HO2'	4:W:14:G:P	2.31	0.54
4:W:61:A:HO2'	4:W:62:C:P	2.29	0.54
4:W:42:G:O2'	4:W:43:G:O5'	2.25	0.54
2:P:176:SER:O	2:P:180:LYS:NZ	2.40	0.54
4:W:41:G:O2'	4:W:42:G:P	2.66	0.53
2:P:45:TYR:OH	2:P:131:SER:OG	2.07	0.53
4:W:73:C:O2'	4:W:74:U:O5'	2.26	0.53
4:W:39:G:O2'	4:W:40:C:P	2.67	0.53
4:W:61:A:O2'	4:W:62:C:P	2.67	0.53
2:P:544:THR:O	2:P:612:ASN:ND2	2.40	0.52
2:P:394:ASP:OD2	2:P:398:THR:OG1	2.28	0.52
2:P:521:LYS:O	2:P:525:TRP:NE1	2.42	0.52
2:P:459:ASP:OD1	2:P:460:ARG:N	2.43	0.52
2:P:77:GLU:N	2:P:77:GLU:OE1	2.39	0.51
2:P:523:LYS:N	3:T:-5:DT:OP2	2.39	0.51
4:W:13:G:O2'	4:W:14:G:P	2.68	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:T:-8:DA:H2'	3:T:-7:DC:C6	2.47	0.49
2:P:154:MET:O	2:P:253:TYR:OH	2.29	0.48
2:P:430:ASP:OD1	2:P:431:LEU:N	2.46	0.48
2:P:419:ARG:NH2	4:W:32:C:OP1	2.47	0.47
2:P:65:LEU:HD22	2:P:442:MET:O	2.15	0.47
2:P:107:LEU:O	2:P:111:VAL:HG23	2.14	0.47
4:W:73:C:HO2'	4:W:74:U:C5'	2.27	0.47
4:W:19:C:O2'	4:W:20:G:P	2.73	0.46
4:W:76:U:O2'	4:W:77:C:C5'	2.63	0.46
2:P:61:LYS:NZ	2:P:439:HIS:O	2.47	0.46
4:W:92:U:HO2'	4:W:93:C:P	2.34	0.46
2:P:280:ILE:HD12	2:P:280:ILE:N	2.31	0.46
4:W:5:U:O2'	4:W:6:C:P	2.74	0.45
2:P:84:LEU:HB3	2:P:132:ILE:HD12	1.99	0.45
2:P:46:ILE:HD11	2:P:328:THR:HG23	1.98	0.45
4:W:92:U:O2'	4:W:93:C:P	2.75	0.45
1:N:-3:DA:N7	2:P:129:GLN:NE2	2.54	0.44
2:P:493:ARG:O	2:P:497:GLY:N	2.49	0.44
2:P:594:GLN:OE1	2:P:594:GLN:N	2.49	0.43
4:W:20:G:O2'	4:W:21:C:P	2.75	0.43
4:W:46:C:O2'	4:W:47:U:O5'	2.32	0.43
4:W:70:G:O2'	4:W:71:C:P	2.77	0.43
2:P:429:VAL:HG12	2:P:433:GLU:HB2	2.01	0.43
2:P:584:LEU:O	2:P:603:TRP:N	2.43	0.43
2:P:572:ARG:NH1	4:W:22:G:N7	2.68	0.42
4:W:77:C:H2'	4:W:78:U:C6	2.55	0.42
2:P:573:ARG:NH1	4:W:5:U:OP2	2.51	0.41
4:W:31:U:H4'	4:W:32:C:OP2	2.20	0.41
4:W:31:U:HO2'	4:W:32:C:P	2.41	0.41
4:W:15:U:O2'	4:W:16:U:H3'	2.22	0.40
2:P:128:GLU:O	2:P:132:ILE:HG12	2.21	0.40
4:W:71:C:HO2'	4:W:72:A:H8	1.65	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	
2	P	596/1032 (58%)	589 (99%)	7 (1%)	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	
2	P	543/891 (61%)	543 (100%)	0	100	100

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

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
2	P	148	GLN
2	P	321	HIS

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
4	W	81/96 (84%)	31 (38%)	14 (17%)

All (31) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
4	W	6	C
4	W	8	G
4	W	14	G
4	W	15	U

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Mol	Chain	Res	Type
4	W	16	U
4	W	17	G
4	W	18	U
4	W	20	G
4	W	21	C
4	W	22	G
4	W	23	C
4	W	29	A
4	W	32	C
4	W	35	U
4	W	40	C
4	W	42	G
4	W	43	G
4	W	47	U
4	W	49	G
4	W	62	C
4	W	66	C
4	W	67	U
4	W	70	G
4	W	71	C
4	W	74	U
4	W	77	C
4	W	89	A
4	W	90	A
4	W	91	A
4	W	93	C
4	W	95	A

All (14) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
4	W	5	U
4	W	13	G
4	W	15	U
4	W	16	U
4	W	17	G
4	W	19	C
4	W	20	G
4	W	31	U
4	W	39	G
4	W	41	G
4	W	61	A

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Mol	Chain	Res	Type
4	W	66	C
4	W	76	U
4	W	92	U

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](#)

Of 3 ligands modelled in this entry, 3 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

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.

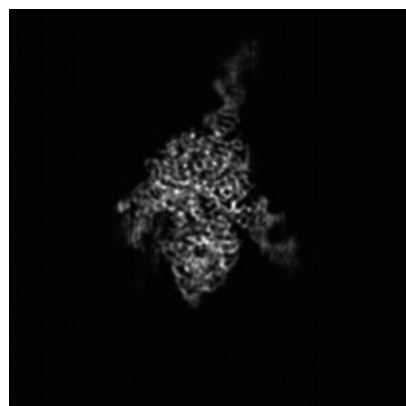
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-45520. These allow visual inspection of the internal detail of the map and identification of artifacts.

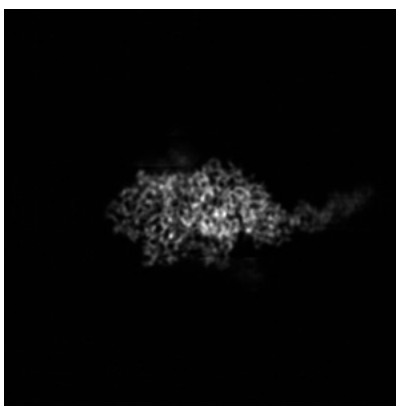
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

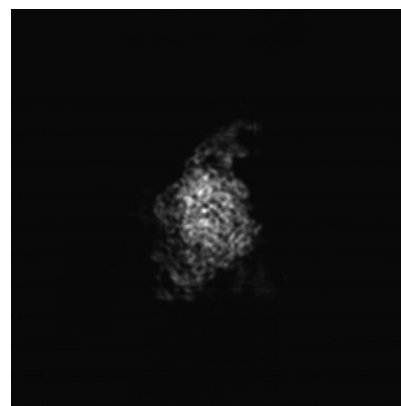
6.1.1 Primary map



X

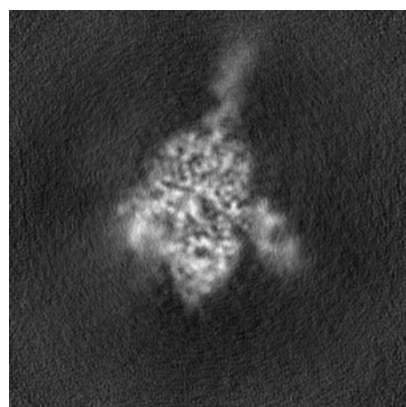


Y

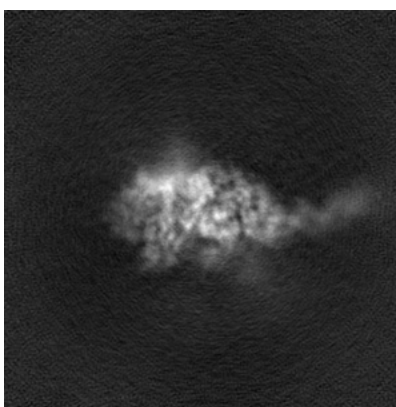


Z

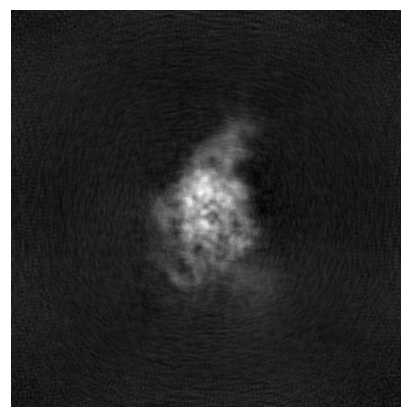
6.1.2 Raw map



X



Y

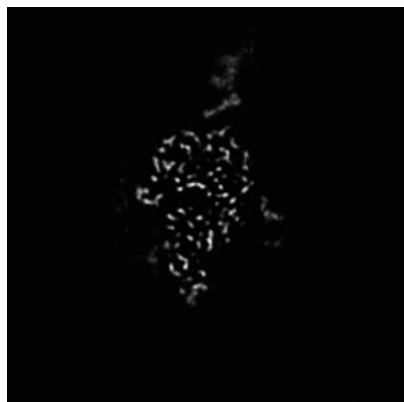


Z

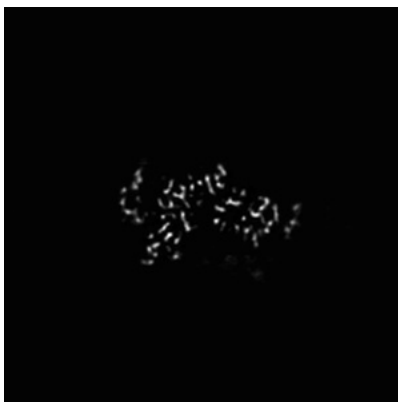
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

6.2.1 Primary map



X Index: 128

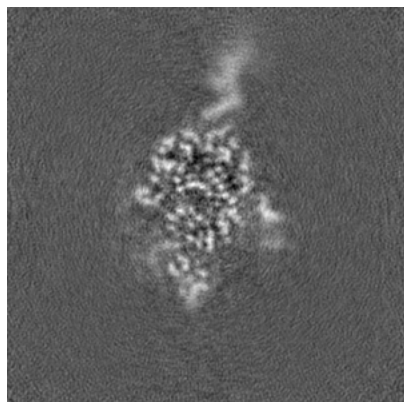


Y Index: 128

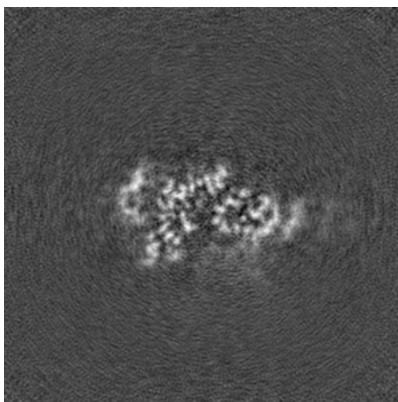


Z Index: 128

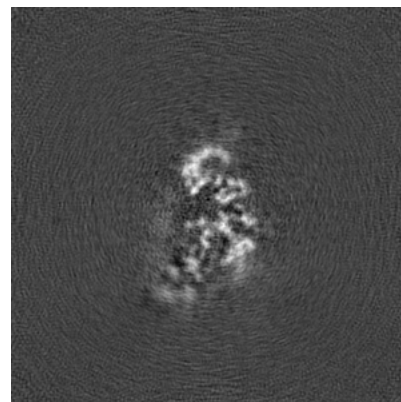
6.2.2 Raw map



X Index: 128



Y Index: 128

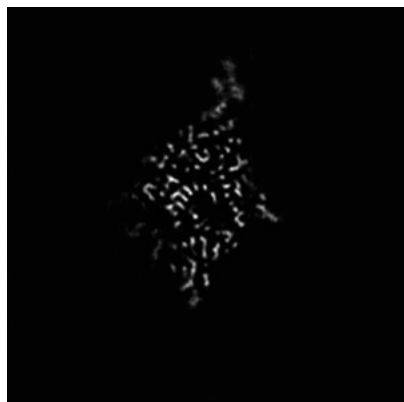


Z Index: 128

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

6.3 Largest variance slices [i](#)

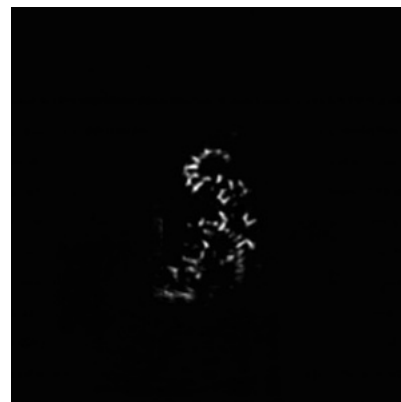
6.3.1 Primary map



X Index: 124

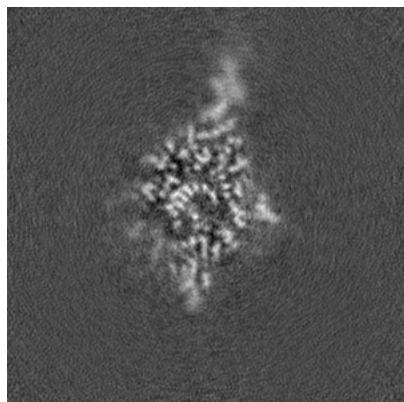


Y Index: 137

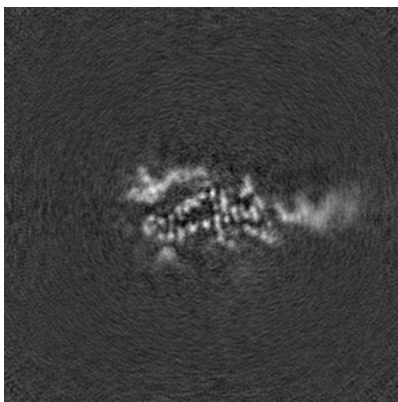


Z Index: 127

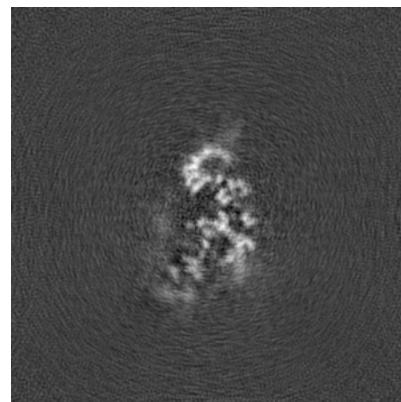
6.3.2 Raw map



X Index: 124



Y Index: 137

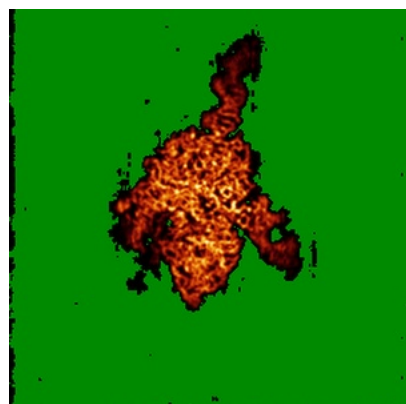


Z Index: 127

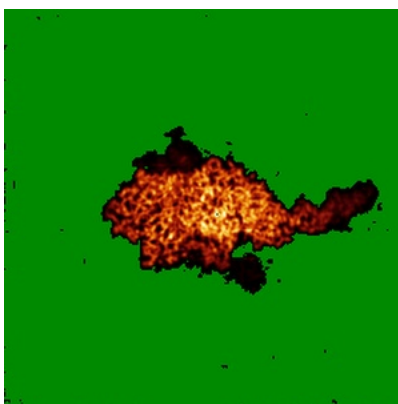
The images above show the largest variance slices of the map in three orthogonal directions.

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

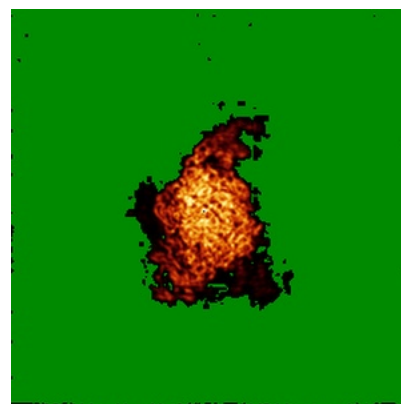
6.4.1 Primary map



X

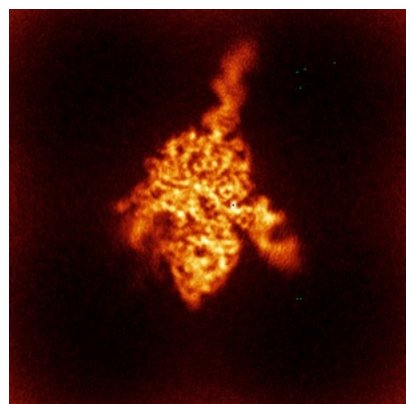


Y

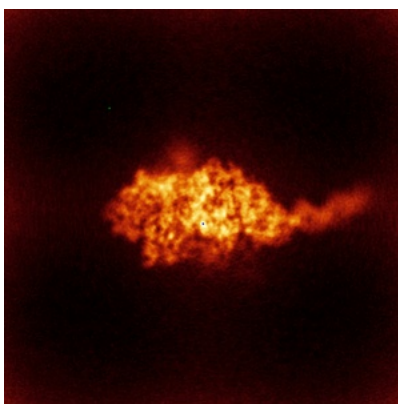


Z

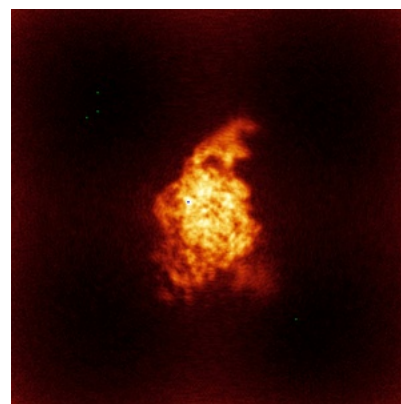
6.4.2 Raw map



X



Y



Z

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

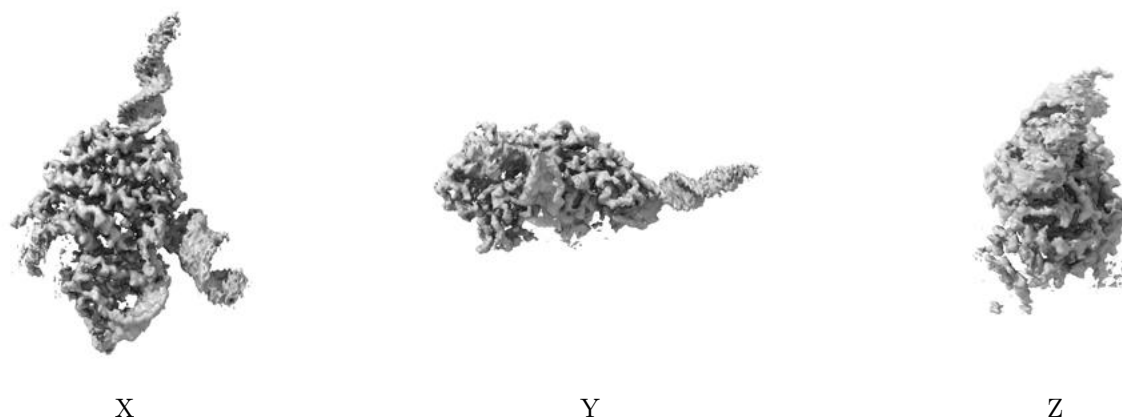
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



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

6.5.2 Raw map



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

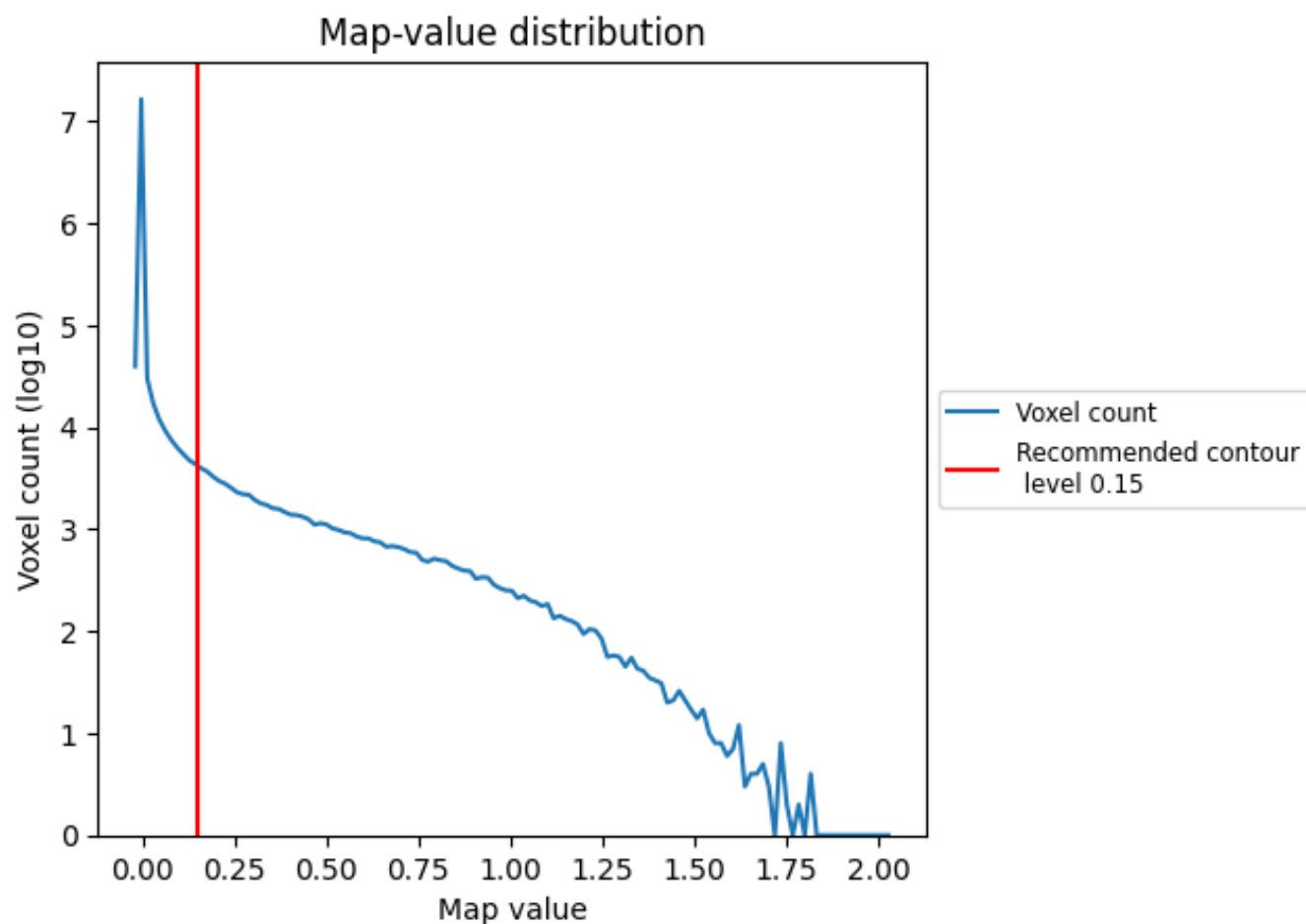
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

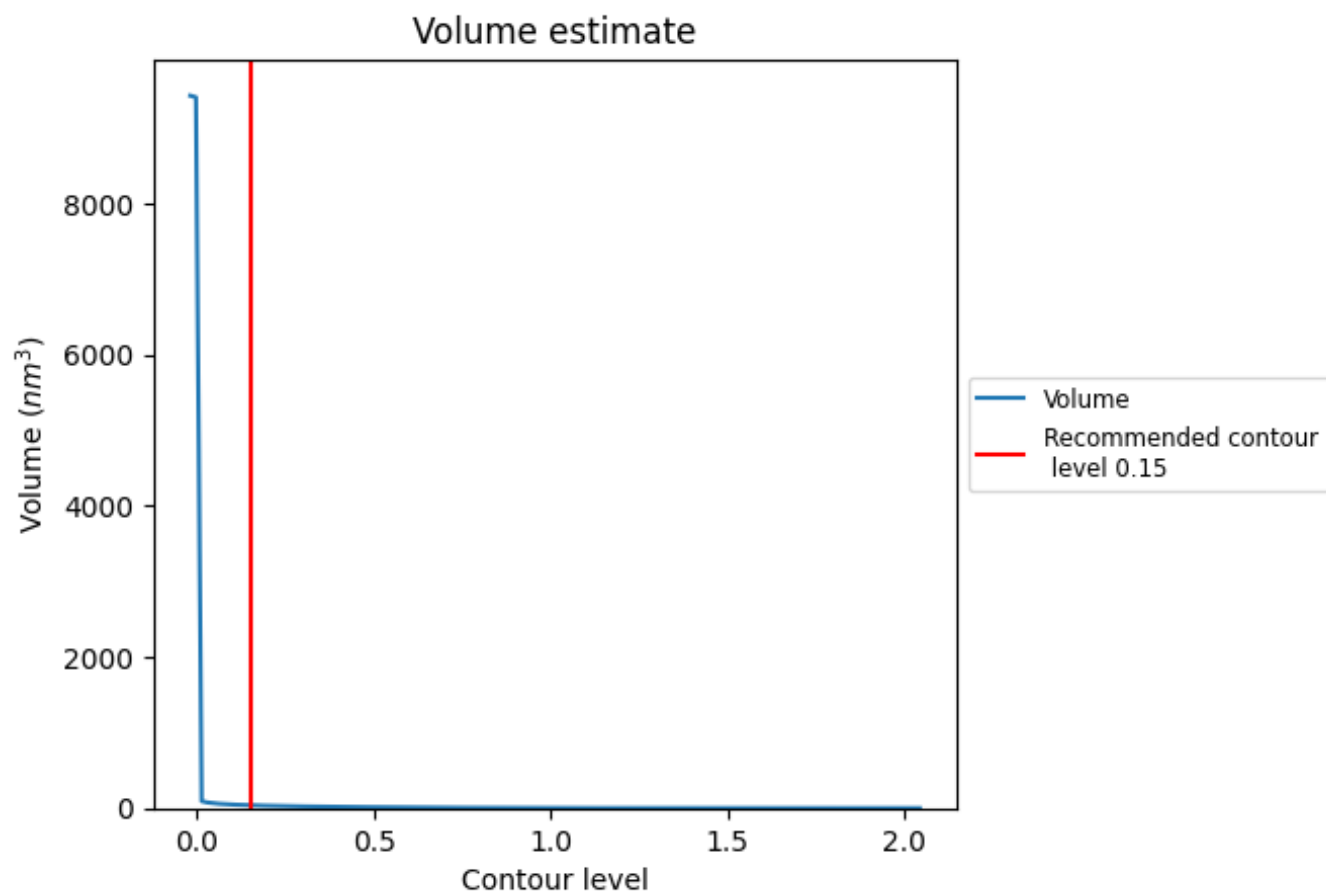
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

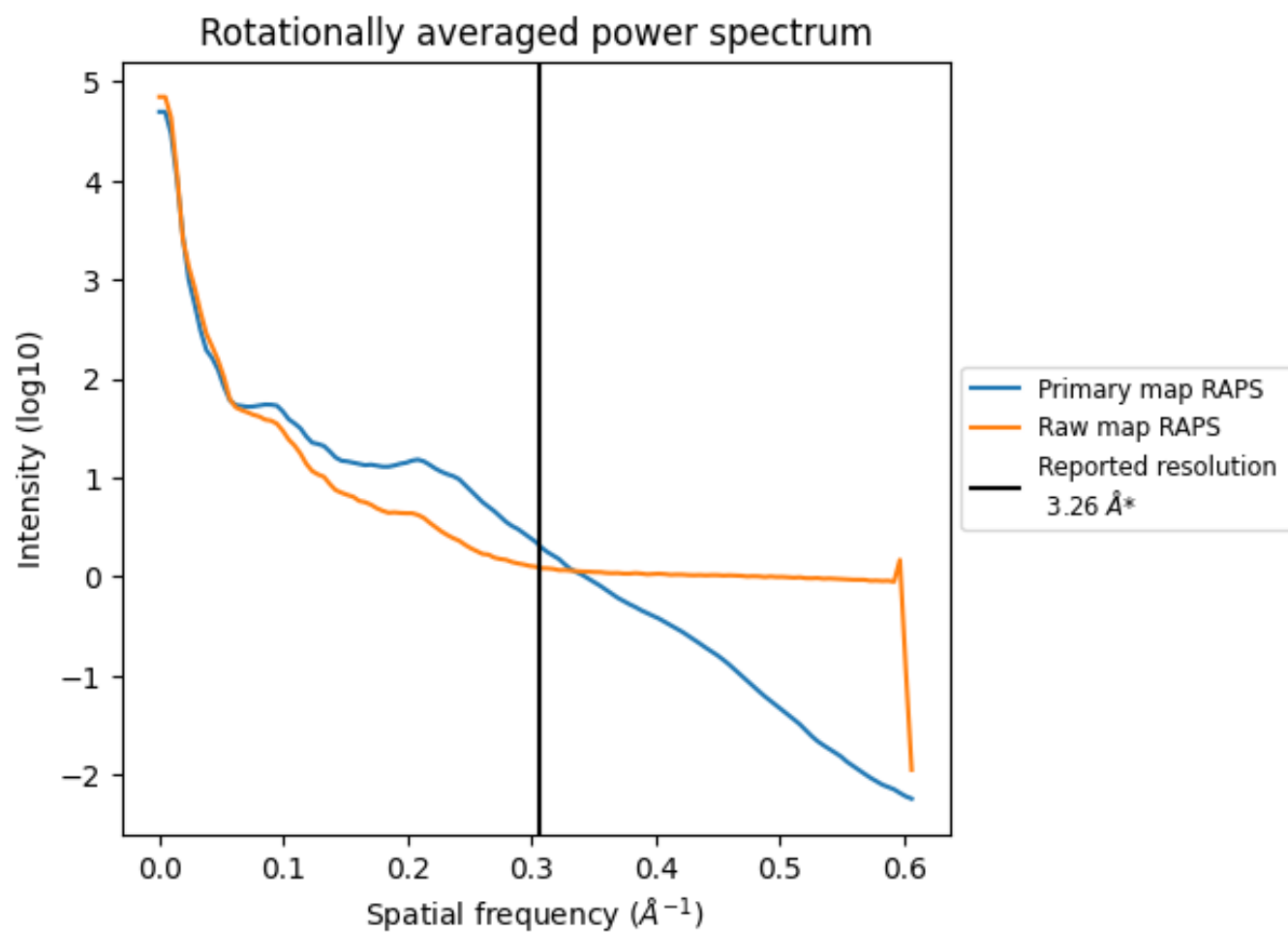
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 38 nm³; this corresponds to an approximate mass of 35 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](#)

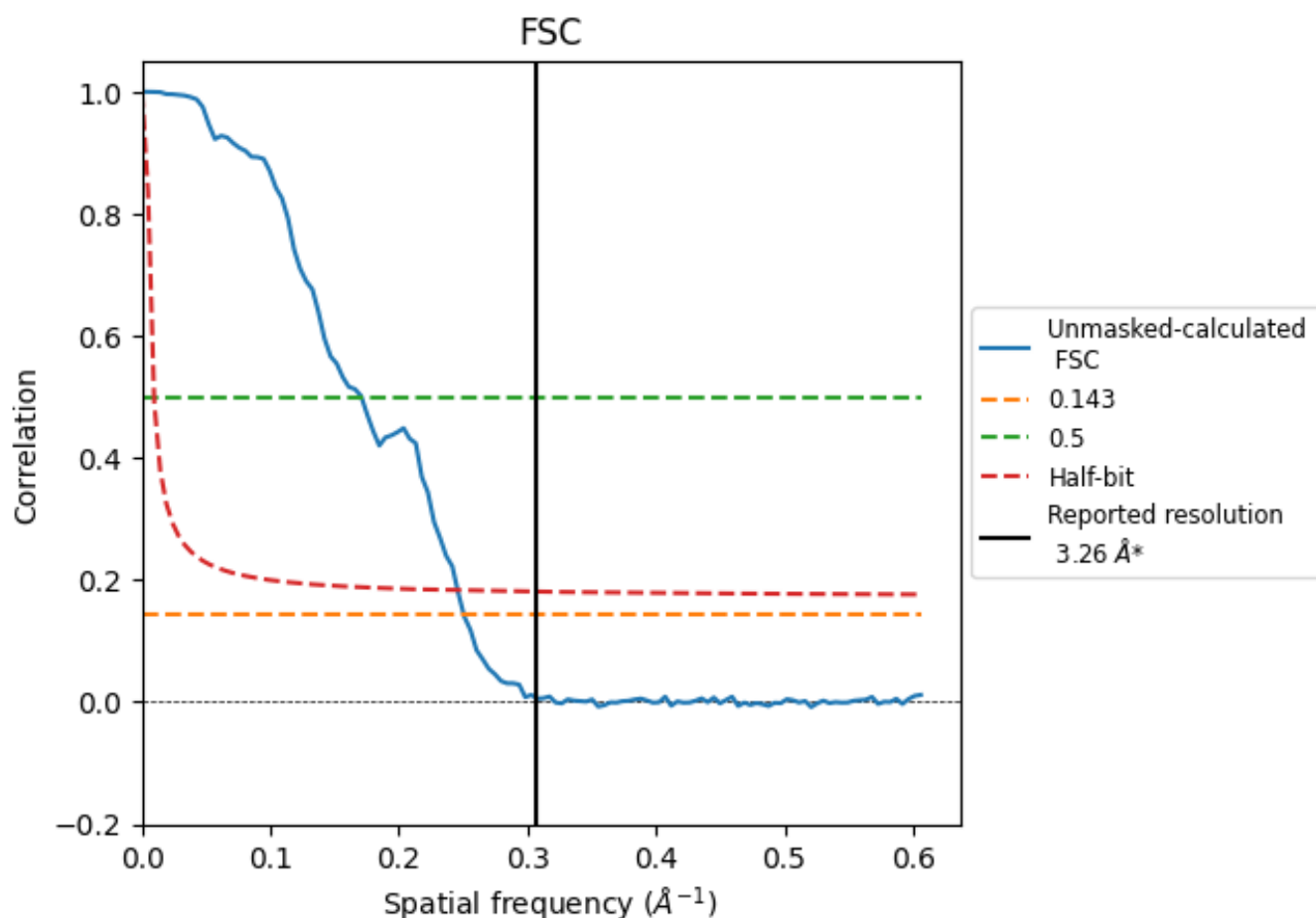


*Reported resolution corresponds to spatial frequency of 0.307 Å⁻¹

8 Fourier-Shell correlation [i](#)

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

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of $0.307 \text{ \AA}^{-1}$

8.2 Resolution estimates [i](#)

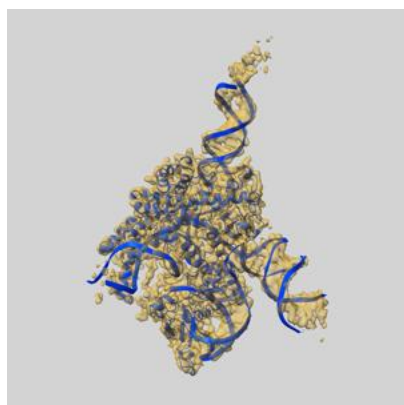
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.26	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	3.99	5.86	4.07

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 3.99 differs from the reported value 3.26 by more than 10 %

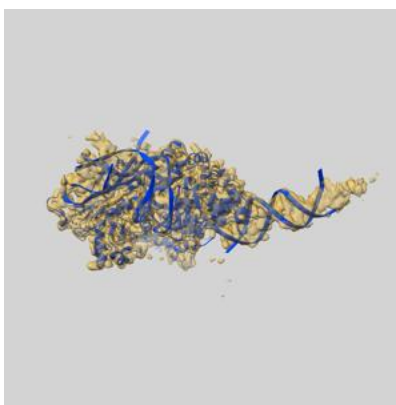
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-45520 and PDB model 9CEV. Per-residue inclusion information can be found in section [3](#) on page [6](#).

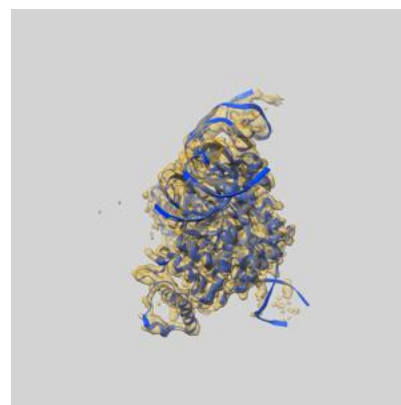
9.1 Map-model overlay [i](#)



X



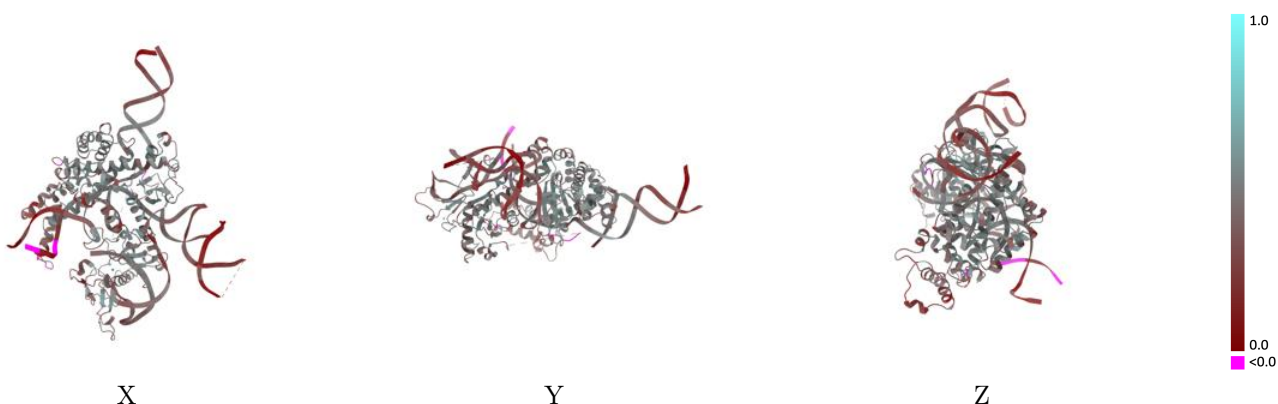
Y



Z

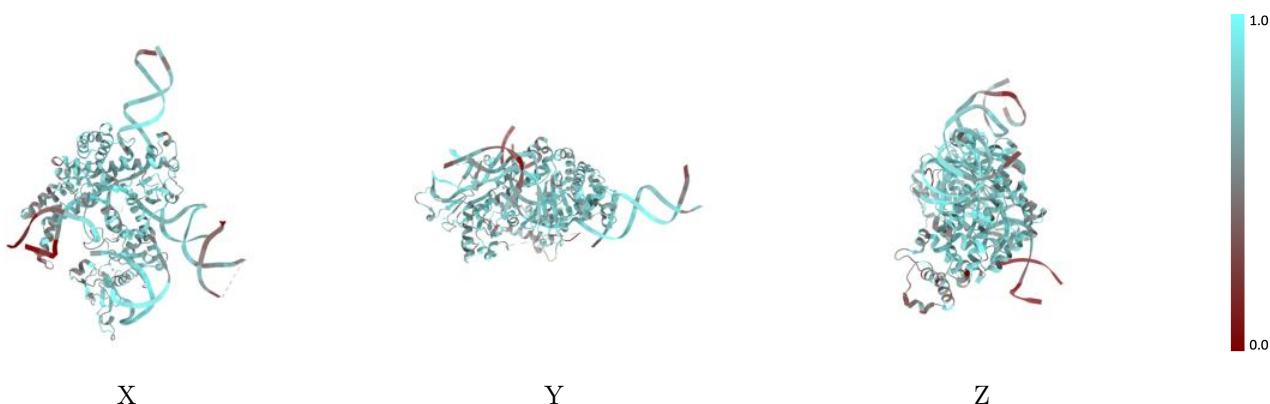
The images above show the 3D surface view of the map at the recommended contour level 0.15 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



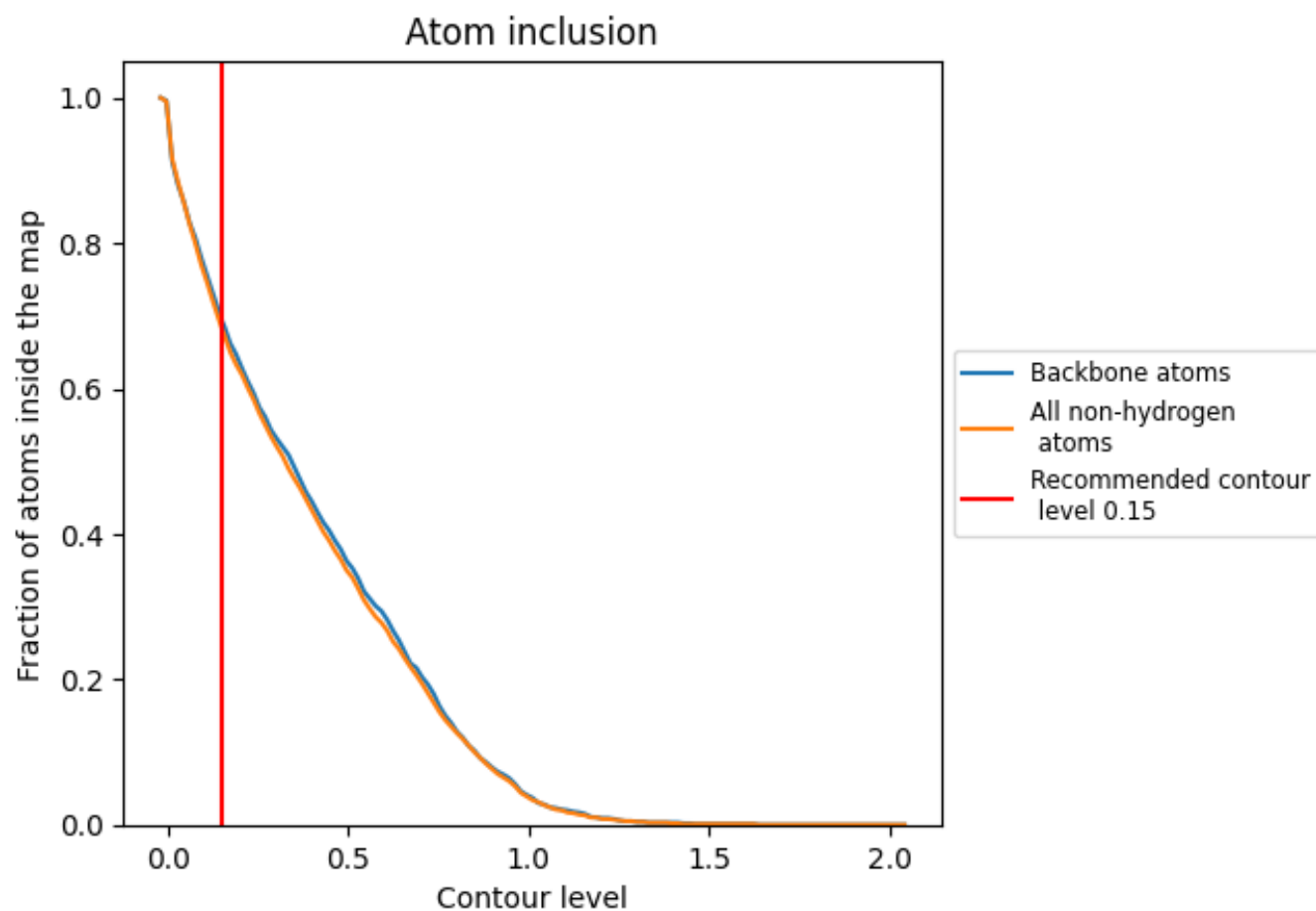
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

9.4 Atom inclusion [i](#)



At the recommended contour level, 69% of all backbone atoms, 68% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.15) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.6830	0.3880
N	0.7110	0.3260
P	0.6970	0.4220
T	0.6710	0.3420
W	0.6700	0.3180

