wwPDB EM Validation Summary Report (i)

Oct 8, 2026 – 03:06 PM EDT

PDB ID	:	9ZXL / pdb_00009zxl
EMDB ID	:	EMD-74928
Title	:	Nucleosome with an SSB at SHL +5.3 in complex with human PARP2, Class 14
Authors	:	Gregory-Lott, E.; Jayathilake, C.; Virk, R.K.; Kim, T.H.
Deposited on	:	2026-01-05
Resolution	:	2.48 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 (i) 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 (i)) were used in the production of this report:

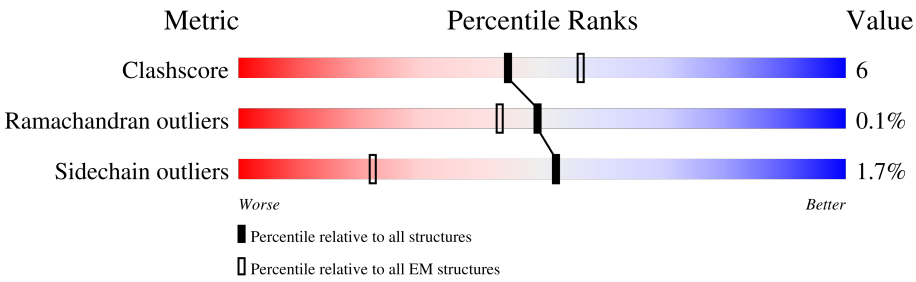
EMDB validation analysis	:	0.0.1.dev133
MolProbity	:	4-5-2 with Phenix2.2
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.51

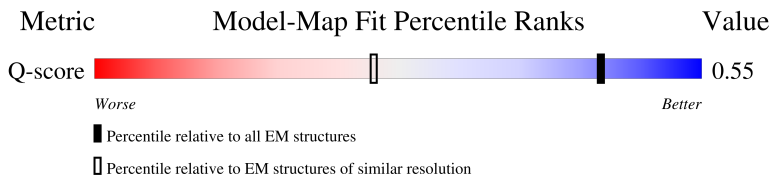
1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 2.48 Å.

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





Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	6178 (1.98 - 2.98)

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 <=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	124	83% • 14%
1	B	124	82% • 14%
2	C	125	66% 12% 22%
2	D	125	73% 5% 22%

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Mol	Chain	Length	Quality of chain
3	E	136	69% • 27%
3	F	136	70% • 27%
4	G	104	70% 10% 20%
4	H	104	77% • 20%
5	I	274	74% 10% 16%
5	J	274	74% 10% 16%
6	K	130	78% 22%
7	L	23	52% 48%
8	M	153	83% 17%
9	P	494	21% 17% • 62%

2 Entry composition (i)

There are 9 unique types of molecules in this entry. The entry contains 32539 atoms, of which 14985 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 Histone H2A.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	S		
1	A	107	1701	518	880	160	142	1	0	0
1	B	107	1701	518	880	160	142	1	0	0

- Molecule 2 is a protein called Histone H2B.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	S		
2	C	97	1584	486	813	141	142	2	0	0
2	D	97	1583	486	812	141	142	2	0	0

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	0	GLY	-	expression tag	UNP P02283
C	2	ILE	-	insertion	UNP P02283
D	0	GLY	-	expression tag	UNP P02283
D	2	ILE	-	insertion	UNP P02283

- Molecule 3 is a protein called Histone H3.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	S		
3	E	99	1673	514	857	158	142	2	0	0
3	F	99	1673	514	857	158	142	2	0	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
E	111	SER	CYS	engineered mutation	UNP P02299

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Chain	Residue	Modelled	Actual	Comment	Reference
F	111	SER	CYS	engineered mutation	UNP P02299

- Molecule 4 is a protein called Histone H4.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	S		
4	G	83	1372	418	710	129	114	1	0	0
4	H	83	1372	418	710	129	114	1	0	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
G	2	ILE	-	insertion	UNP P84040
H	2	ILE	-	insertion	UNP P84040

- Molecule 5 is a protein called PL2-6 scFv.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	S		
5	I	230	3543	1132	1743	296	363	9	0	0
5	J	230	3542	1132	1742	296	363	9	0	0

- Molecule 6 is a DNA chain called DNA 130-mer.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
6	K	130	4103	1255	1458	479	781	130	0	0

- Molecule 7 is a DNA chain called DNA 23-mer.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
7	L	23	734	226	262	83	140	23	0	0

- Molecule 8 is a DNA chain called DNA 153-mer.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	P		
8	M	153	4874	1494	1717	594	916	153	0	0

- Molecule 9 is a protein called Poly [ADP-ribose] polymerase 2.

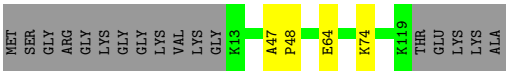
Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	S		
9	P	190	3084	974	1544	274	281	11	0	0

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.

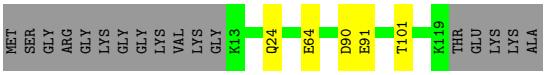
- Molecule 1: Histone H2A

Chain A:



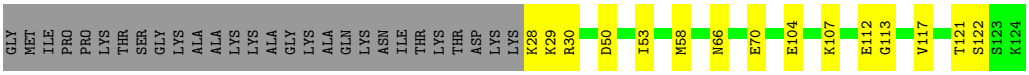
- Molecule 1: Histone H2A

Chain B:



- Molecule 2: Histone H2B

Chain C:

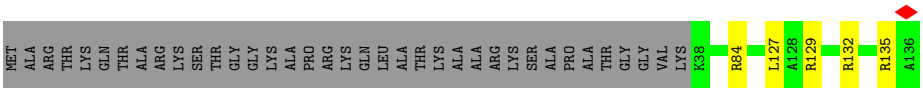


- Molecule 2: Histone H2B

Chain D:

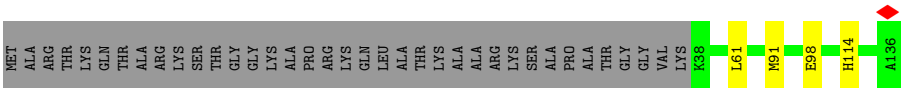
- Molecule 3: Histone H3

Chain E:



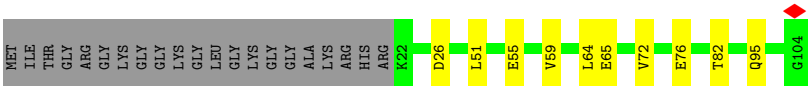
- Molecule 3: Histone H3

Chain F:



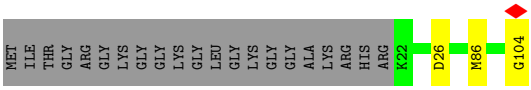
• Molecule 4: Histone H4

Chain G:



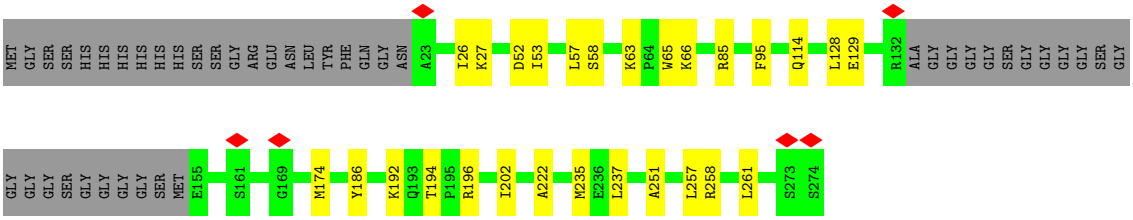
• Molecule 4: Histone H4

Chain H:



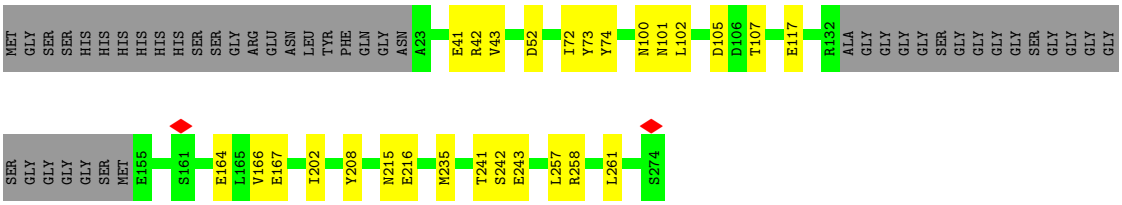
• Molecule 5: PL2-6 scFv

Chain I:



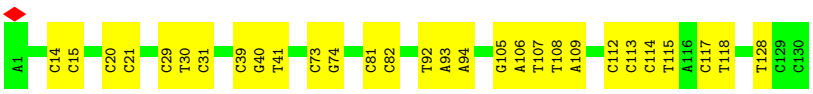
• Molecule 5: PL2-6 scFv

Chain J:



• Molecule 6: DNA 130-mer

Chain K:



• Molecule 7: DNA 23-mer

Chain L: 52% 48%

G1 T2 C3 A4 G5 C13 A14 T15 C16 T20 G21 A22 T23

• Molecule 8: DNA 153-mer

Chain M: 83% 17%

A1 T2 C3 A4 C5 A6 G11 T14 A15 T16 A17 T18 C19 T20 T53 T54 G85 T86 T90 T91 G100 C101 T102 C114 G115 C145 T146 C147 C148 A149 T153

• Molecule 9: Poly [ADP-ribose] polymerase 2

Chain P: 21% 17% 62%

GLY K91 A92 P93 V94 C98 V102 G103 K104 A105 H106 V107 Y108 C109 V114 Y115 D116 V117 M118 L119 N120 N123 L124 Q125 F126 N127 N128 N129 K130 L133 I134 Q135 L136 L137 E138 D139 Q142 R143 N144 F145 S146 V147 W148 M149 V154 G155 K156 M157 L162 V163 N168

L169 N170 K171 A172 I175 F176 K185 K193 F194 V197 Y201 D202 M203 L204 Q205 M206 D207 Y208 A209 T210 ASN THR GLN ASP GLU GLU GLU THR LYS LYS GLU GLU SER LEU LYS SER PRO LEU LYS PRO GLU SER GLN LEU ASP LEU ARG VAL GLN GLU LEU ILE LYS LEU ILE

CYS ASN VAL GLN ALA MET GLU GLU MET MET MET GLU MET LYS TYR ASN THR K263 K264 A265 P266 L267 G268 K269 L270 Q274 I275 K276 A277 G278 Y279 Q280 S281 L282 C288 I289 R296 A297 L298 M299 C302 N303 E304 T307 R308 I309 L315 R316 T317 P318 P319 L320 I321 R322

L327 K330 I331 Q332 LEU LEU GLU ALA LEU GLY ASP ILE GLU ILE ALA ILE LYS LEU VAL LYS THR GLU LEU GLN SER PRO GLU HIS PRO LEU ASP GLN HIS TYR ARG ASN LEU HIS CYS ALA LEU ARG PRO LEU ASP HIS GLU SER TYR GLU PHE LYS VAL ILE SER GLN TYR LEU

GLN SER THR HIS ALA PRO THR HIS SER ASP TYR THR MET THR LEU LEU ASP LEU PHE GLU VAL GLU LYS ASP GLY GLU LYS GLU ALA PHE ARG GLU ASP LEU HIS ASN ARG MET LEU LEU TRP HIS GLY SER ARG MET SER ASN TRP VAL GLY ILE LEU SER HIS GLY LEU ARG ILE ALA

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

GLY LEU LEU GLN GLY LYS HIS SER THR LYS GLY LEU GLY LYS MET ALA PRO SER SER ALA HIS PHE VAL THR LEU ASN GLY SER THR VAL PRO LEU GLY PRO ALA SER ASP THR GLY ILE LEU ASN PRO ASP GLY TYR THR LEU ASN TYR ASN GLU TYR ILE VAL TYR ASN PRO ASN GLN

VAL ARG MET ARG TYR LEU LEU LYS VAL GLN PHE ASN PHE LEU GLN LEU TRP

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	70630	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS GLACIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	48	Depositor
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	1800	Depositor
Magnification	Not provided	
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	0.351	Depositor
Minimum map value	-0.047	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.006	Depositor
Recommended contour level	0.018	Depositor
Map size (Å)	331.2, 331.2, 331.2	wwPDB
Map dimensions	400, 400, 400	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.828, 0.828, 0.828	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\|>5$	RMSZ	$\#\|Z\|>5$
1	A	0.18	0/831	0.34	0/1119
1	B	0.19	0/831	0.38	0/1119
2	C	0.21	0/782	0.48	2/1046 (0.2%)
2	D	0.17	0/782	0.33	0/1046
3	E	0.17	0/828	0.30	0/1109
3	F	0.18	0/828	0.31	0/1109
4	G	0.17	0/669	0.34	0/894
4	H	0.19	0/669	0.32	0/894
5	I	0.14	0/1842	0.36	0/2493
5	J	0.17	0/1842	0.37	0/2493
6	K	0.76	0/2962	0.88	0/4564
7	L	0.72	0/528	0.93	0/811
8	M	0.73	0/3546	0.87	0/5476
9	P	0.20	0/1570	0.54	0/2107
All	All	0.48	0/18510	0.64	2/26280 (0.0%)

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	C	107	LYS	CB-CA-C	-6.10	101.56	110.96
2	C	107	LYS	CD-CE-NZ	5.55	129.65	111.90

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	A	821	880	879	2	0
1	B	821	880	879	3	0
2	C	771	813	811	10	0
2	D	771	812	811	6	0
3	E	816	857	856	5	0
3	F	816	857	856	3	0
4	G	662	710	709	11	0
4	H	662	710	709	2	0
5	I	1800	1743	1740	21	0
5	J	1800	1742	1740	25	0
6	K	2645	1458	1458	22	0
7	L	472	262	262	8	0
8	M	3157	1717	1717	16	0
9	P	1540	1544	1542	91	0
All	All	17554	14985	14969	209	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 6.

The worst 5 of 209 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)
9:P:204:LEU:HD22	9:P:270:LEU:HD11	1.50	0.93
9:P:205:GLN:C	9:P:206:MET:HE3	2.19	0.68
9:P:204:LEU:HB3	9:P:206:MET:HE1	1.77	0.66
5:J:72:ILE:HG22	5:J:74:TYR:O	1.96	0.66
3:E:84:ARG:HB2	4:G:82:THR:HG22	1.78	0.65

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	105/124 (85%)	103 (98%)	2 (2%)	0	100	100
1	B	105/124 (85%)	104 (99%)	1 (1%)	0	100	100
2	C	95/125 (76%)	92 (97%)	3 (3%)	0	100	100
2	D	95/125 (76%)	94 (99%)	1 (1%)	0	100	100
3	E	97/136 (71%)	95 (98%)	2 (2%)	0	100	100
3	F	97/136 (71%)	95 (98%)	2 (2%)	0	100	100
4	G	81/104 (78%)	77 (95%)	4 (5%)	0	100	100
4	H	81/104 (78%)	80 (99%)	1 (1%)	0	100	100
5	I	226/274 (82%)	215 (95%)	11 (5%)	0	100	100
5	J	226/274 (82%)	222 (98%)	4 (2%)	0	100	100
9	P	186/494 (38%)	157 (84%)	28 (15%)	1 (0%)	24	40
All	All	1394/2020 (69%)	1334 (96%)	59 (4%)	1 (0%)	49	66

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
9	P	145	PHE

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	A	83/94 (88%)	82 (99%)	1 (1%)	63	81
1	B	83/94 (88%)	81 (98%)	2 (2%)	43	67
2	C	84/105 (80%)	82 (98%)	2 (2%)	43	67
2	D	84/105 (80%)	83 (99%)	1 (1%)	63	81
3	E	86/111 (78%)	84 (98%)	2 (2%)	44	69
3	F	86/111 (78%)	86 (100%)	0	100	100
4	G	68/80 (85%)	67 (98%)	1 (2%)	57	78
4	H	68/80 (85%)	68 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
5	I	202/226 (89%)	202 (100%)	0	100	100
5	J	202/226 (89%)	202 (100%)	0	100	100
9	P	165/433 (38%)	154 (93%)	11 (7%)	15	29
All	All	1211/1665 (73%)	1191 (98%)	20 (2%)	52	75

5 of 20 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
9	P	137	LEU
9	P	193	LYS
9	P	322	ARG
9	P	280	GLN
3	E	132	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 10 such sidechains are listed below:

Mol	Chain	Res	Type
5	J	157	GLN
9	P	120	ASN
9	P	170	ASN
3	E	86	GLN
5	I	36	HIS

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.

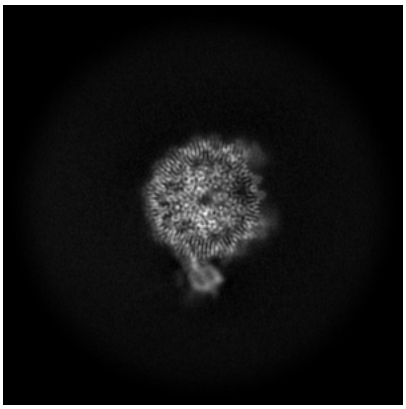
6 Map visualisation (i)

This section contains visualisations of the EMDB entry EMD-74928. These allow visual inspection of the internal detail of the map and identification of artifacts.

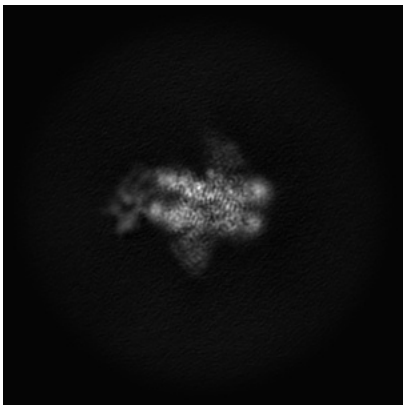
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections (i)

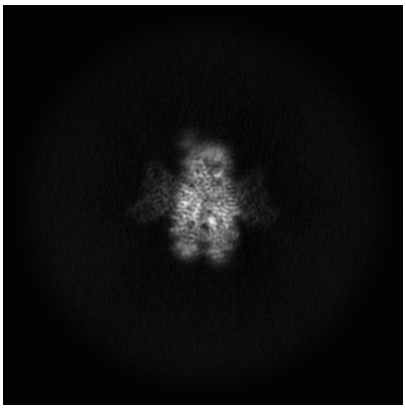
6.1.1 Primary map



X

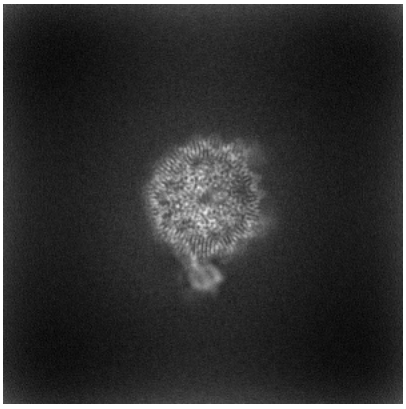


Y

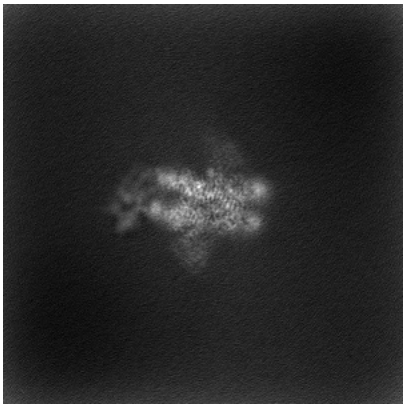


Z

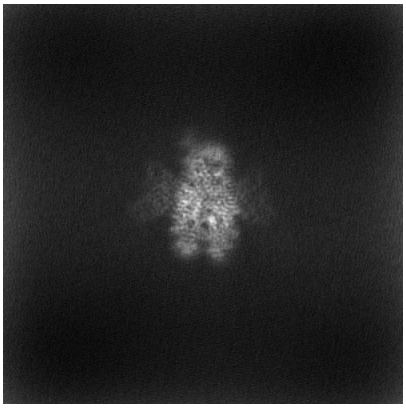
6.1.2 Raw map



X



Y

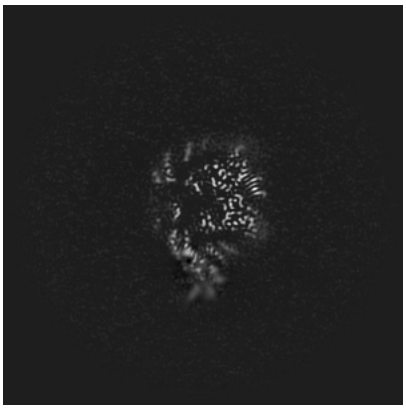


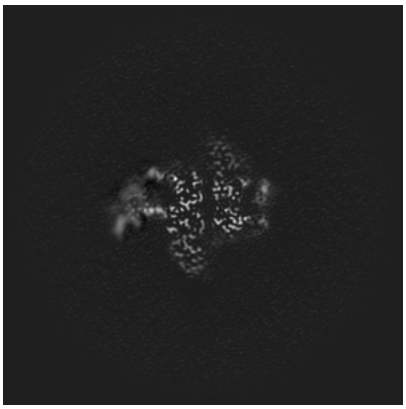
Z

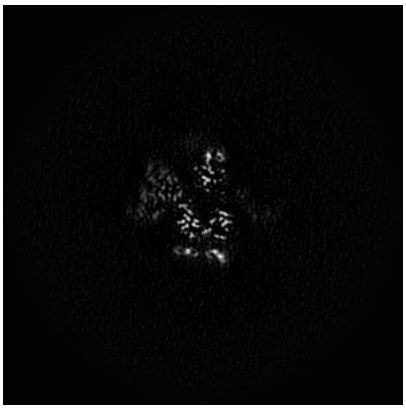
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

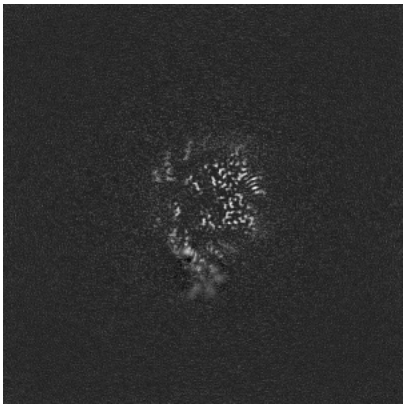
6.2.1 Primary map

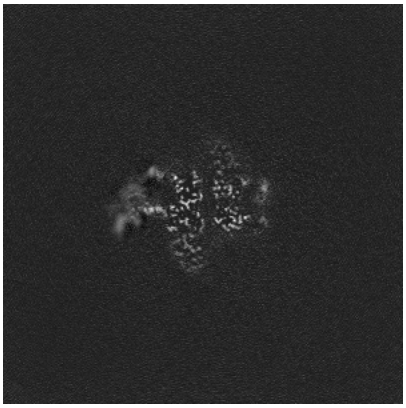

X Index: 200

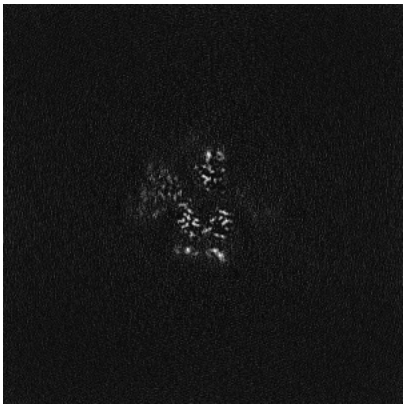

Y Index: 200


Z Index: 200

6.2.2 Raw map


X Index: 200

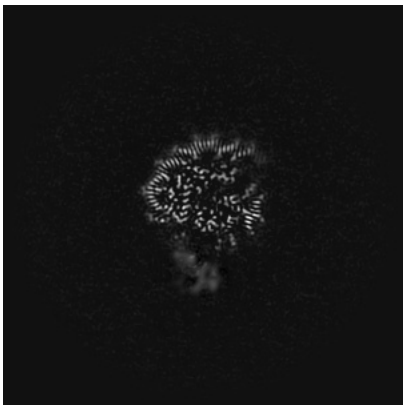

Y Index: 200

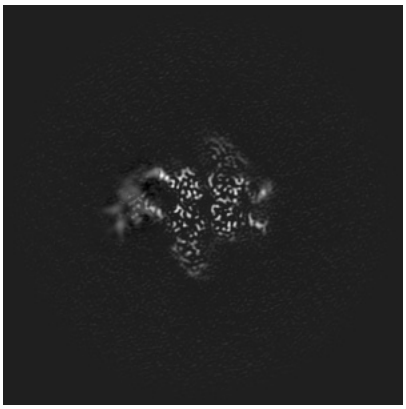

Z Index: 200

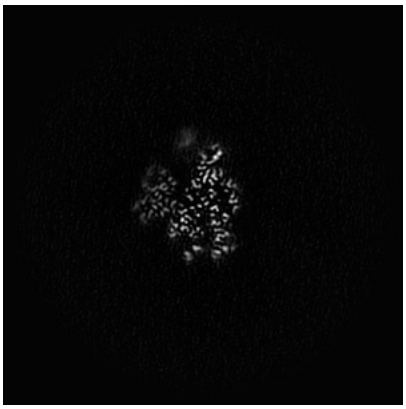
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

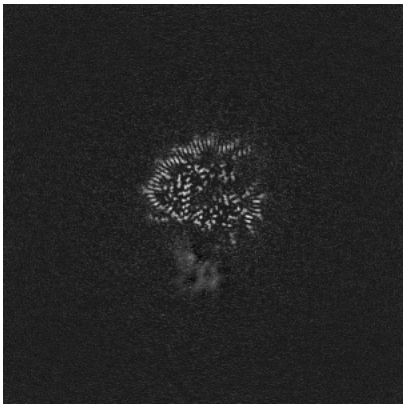
6.3.1 Primary map

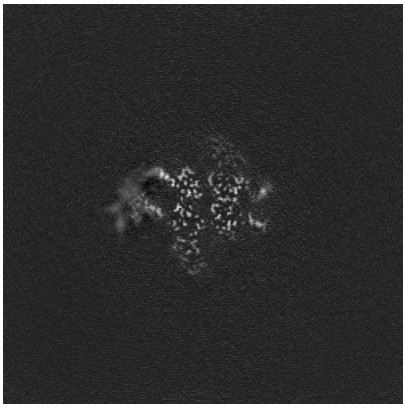

X Index: 212

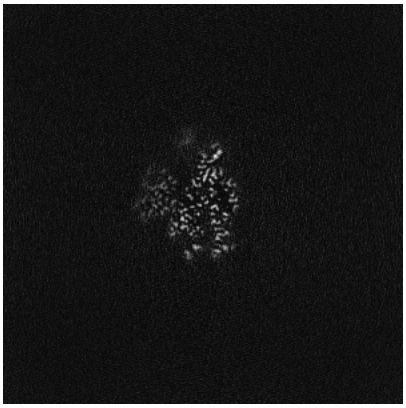

Y Index: 197


Z Index: 186

6.3.2 Raw map


X Index: 211

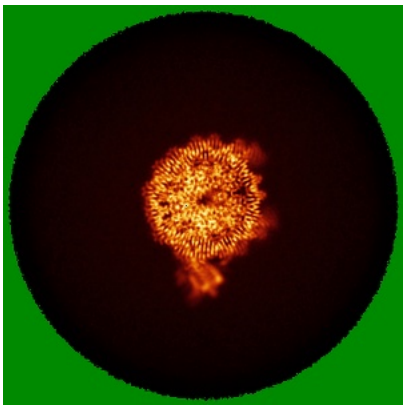

Y Index: 197

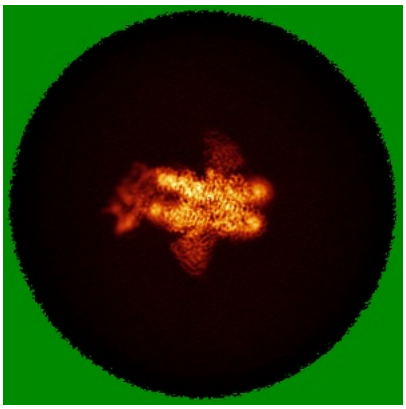

Z Index: 186

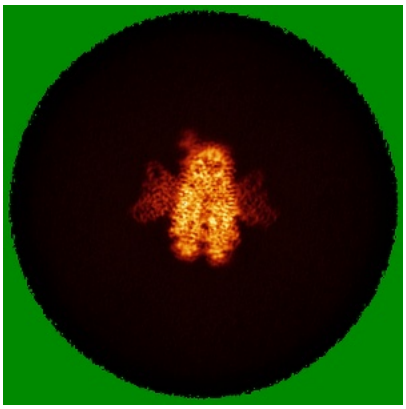
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

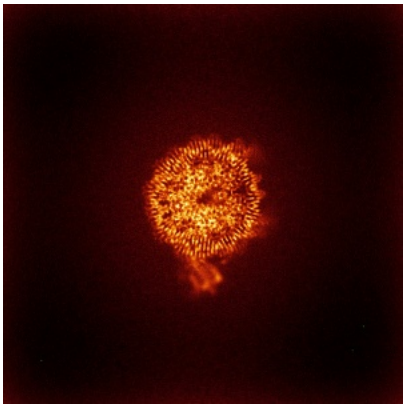
6.4.1 Primary map

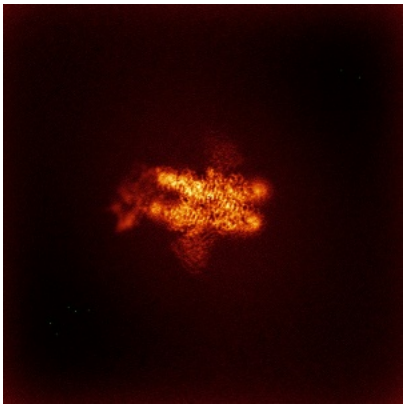

X

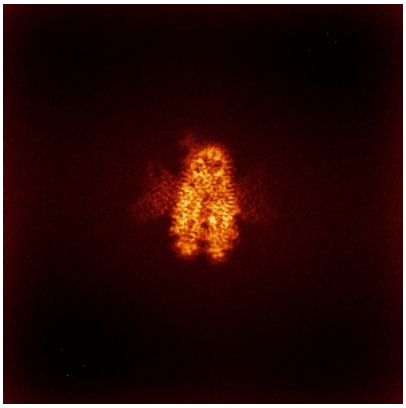

Y


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.

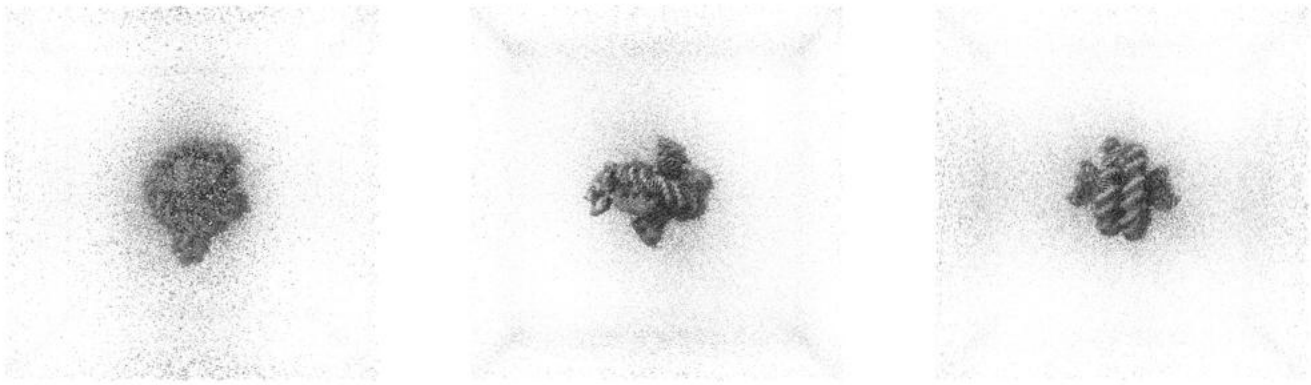
6.5 Orthogonal surface views (i)

6.5.1 Primary map

X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.018. 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



X Y Z

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.

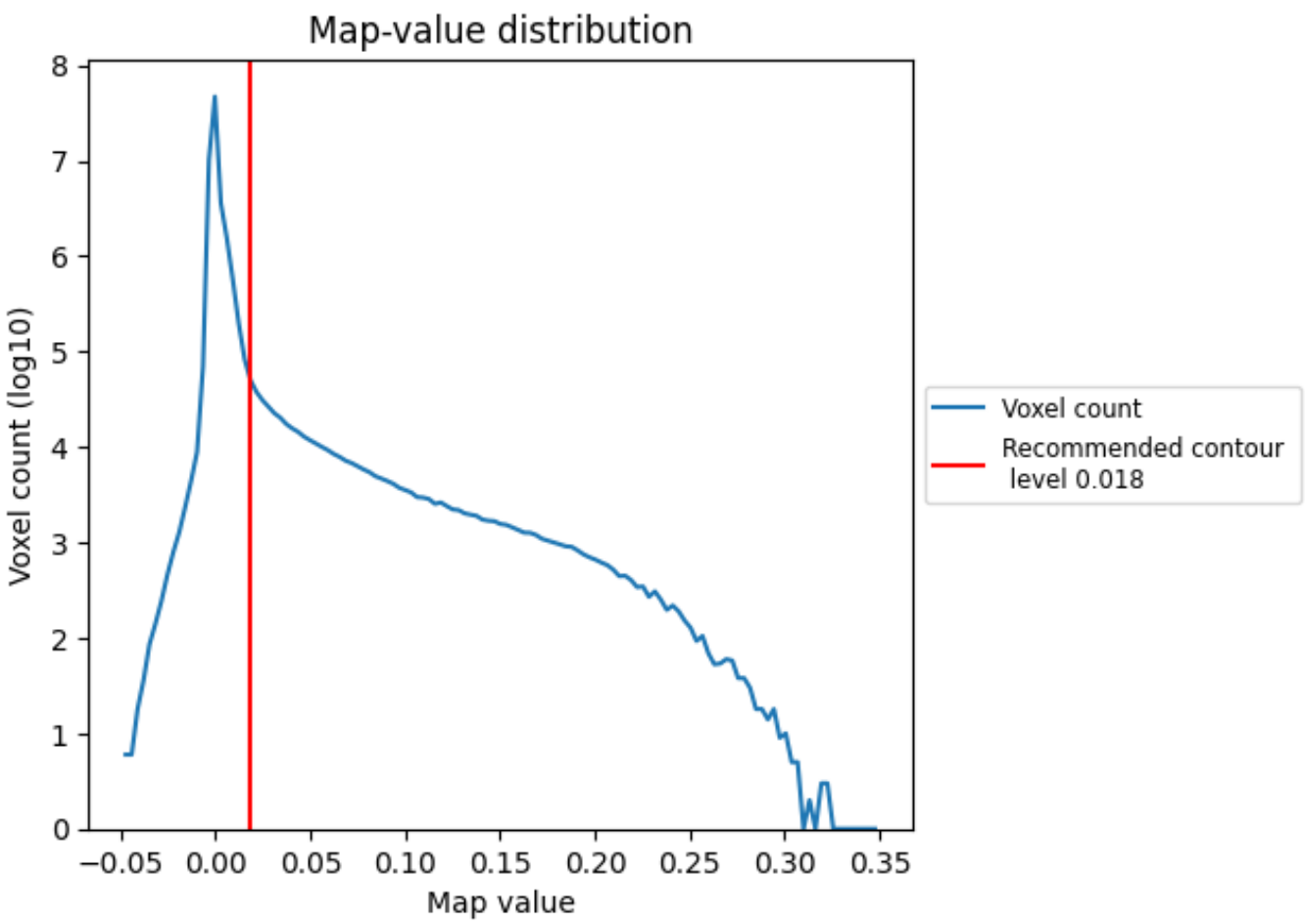
6.6 Mask visualisation (i)

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

7 Map analysis (i)

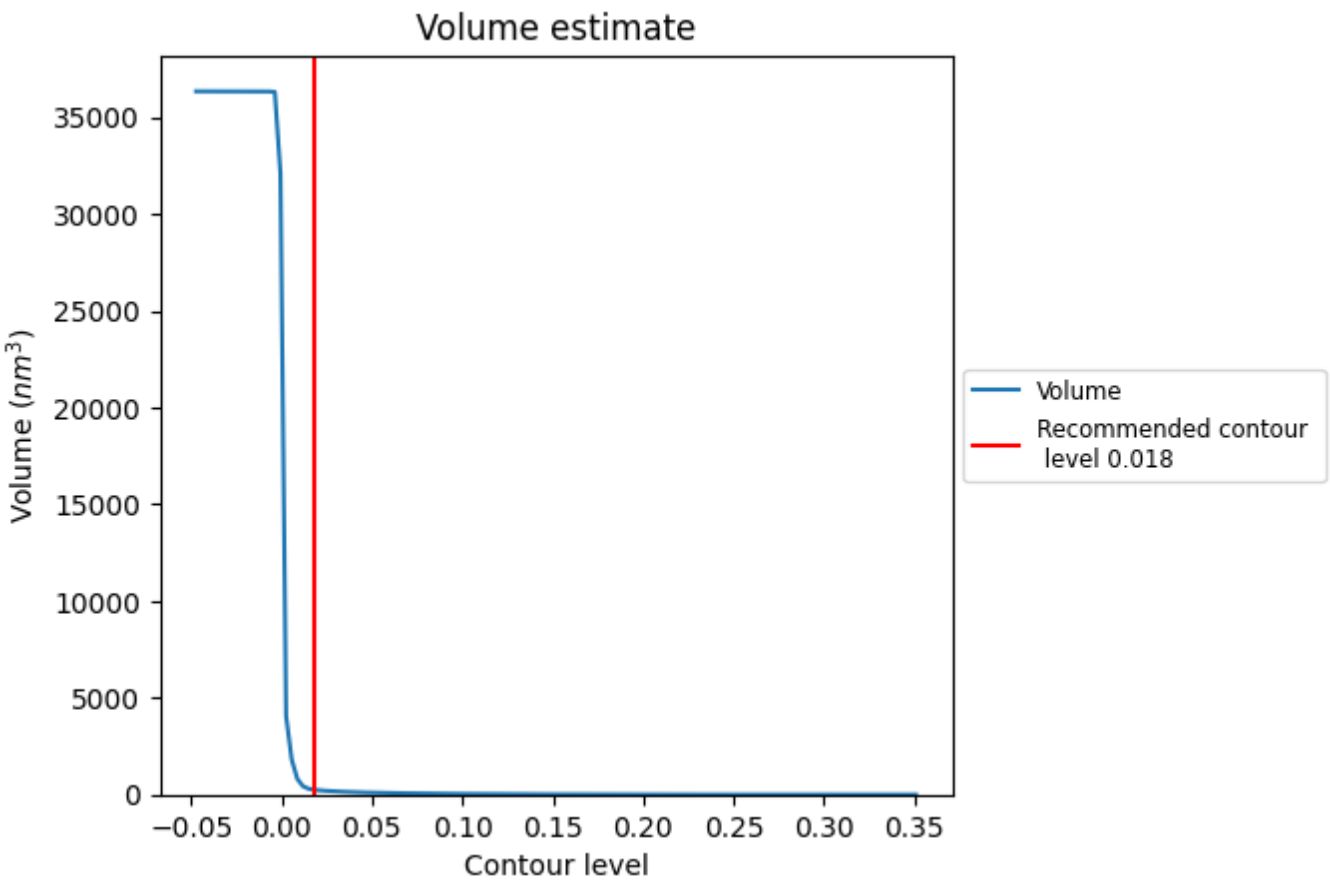
This section contains the results of statistical analysis of the map.

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.

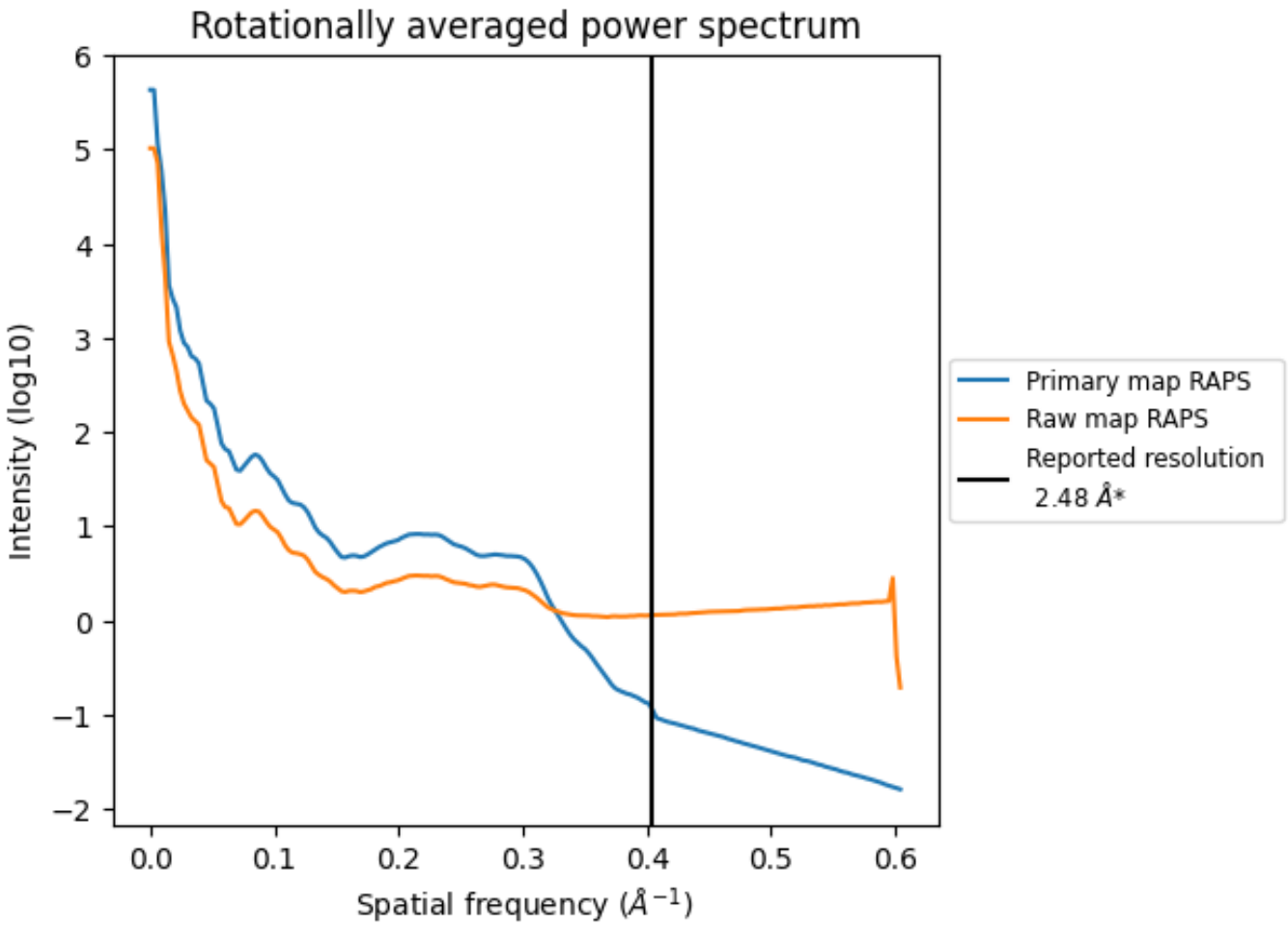
7.2 Volume estimate (i)



The volume at the recommended contour level is 248 nm^3; this corresponds to an approximate mass of 224 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)

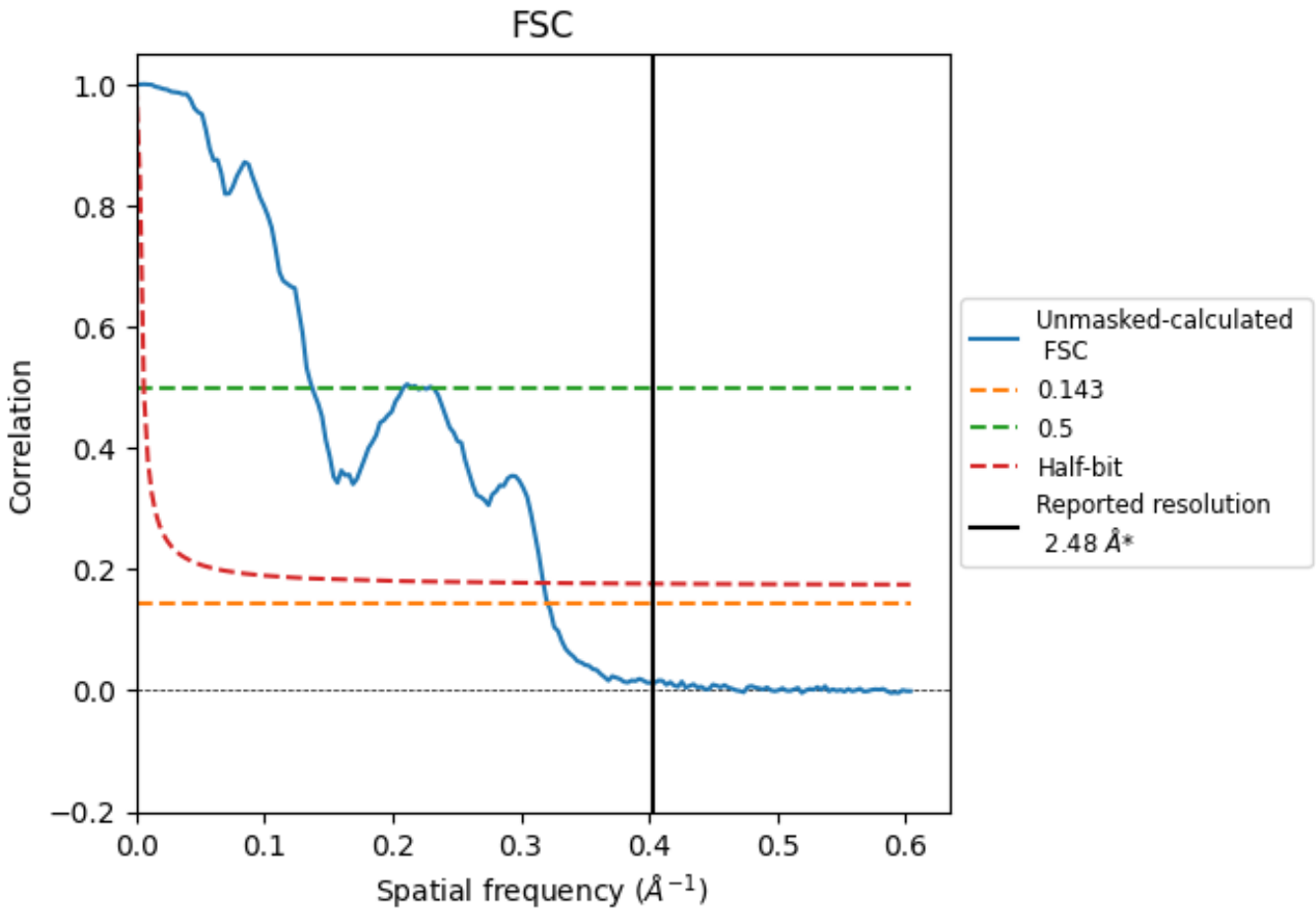


*Reported resolution corresponds to spatial frequency of 0.403 Å^{-1}

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 0.403 Å^{-1}

8.2 Resolution estimates (i)

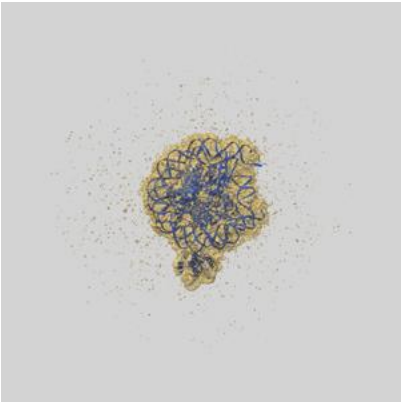
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.48	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	3.11	7.29	3.15

*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 3.11 differs from the reported value 2.48 by more than 10 %

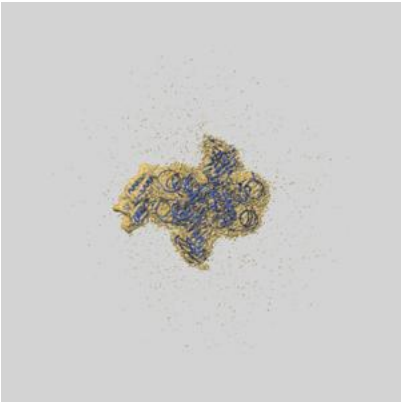
9 Map-model fit (i)

This section contains information regarding the fit between EMDB map EMD-74928 and PDB model 9ZXL. Per-residue inclusion information can be found in section 3 on page 7.

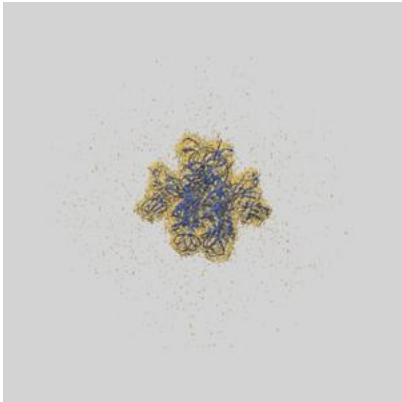
9.1 Map-model overlay (i)



X



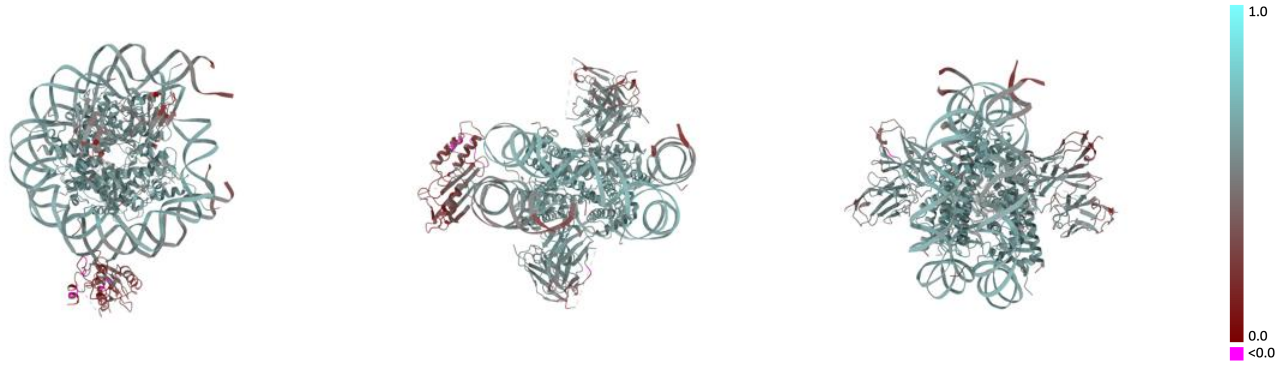
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.018 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.

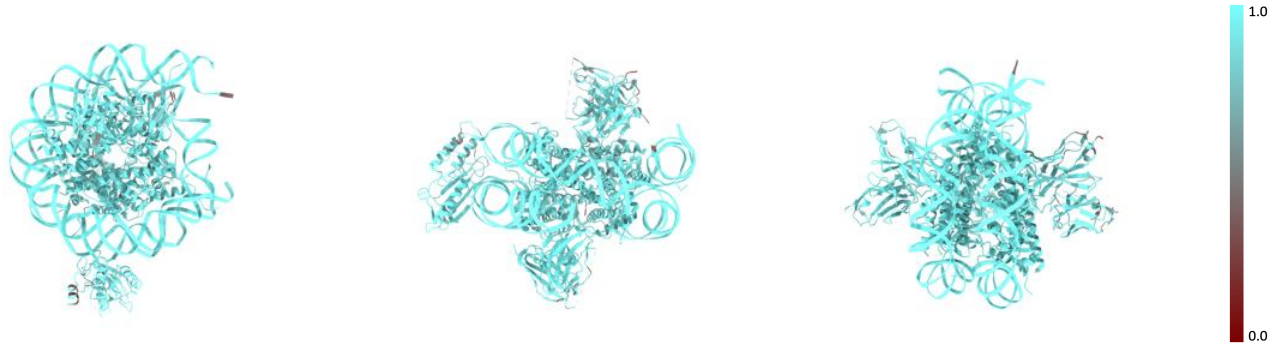
9.2 Q-score mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according 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.

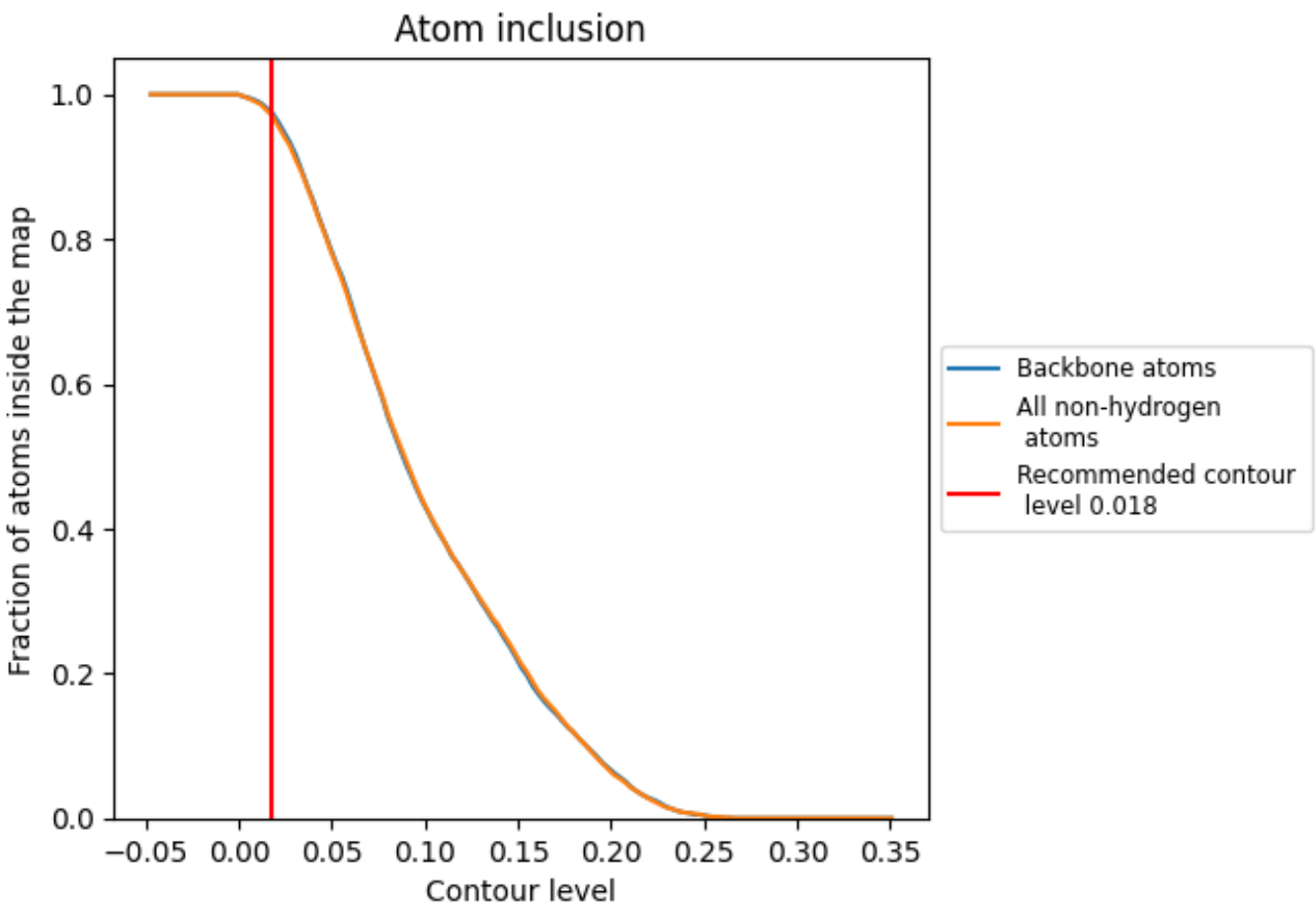
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

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 (0.018).

9.4 Atom inclusion (i)



At the recommended contour level, 97% of all backbone atoms, 97% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary (i)

The table lists the average atom inclusion at the recommended contour level (0.018) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9700	0.5500
A	0.9980	0.6270
B	0.9890	0.6230
C	0.9890	0.5990
D	0.9840	0.6030
E	0.9810	0.6230
F	0.9760	0.6220
G	0.9910	0.6240
H	0.9860	0.6260
I	0.8800	0.4920
J	0.9630	0.5400
K	0.9950	0.5910
L	0.9960	0.4930
M	0.9970	0.5700
P	0.9220	0.2630