



Full wwPDB EM Validation Report ⓘ

Mar 20, 2026 – 12:09 AM UTC

PDB ID : 8TJX / pdb_00008tjx
EMDB ID : EMD-41313
Title : Tetrahymena Ribozyme cryo-EM scaffold
Authors : Langeberg, C.J.; Kieft, J.S.
Deposited on : 2023-07-24
Resolution : 2.44 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

i

ELECTRON MICROSCOPY

A.

the following graphic. The table shows the number of entries on which the scores are based.



Similar EM resolution
(#Entries, resolution range(Å))

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.

Quality of chain

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 7839 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 RNA chain called RNA (440-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
1	N	365	Total	C	N	O	P	0	0
			7812	3492	1418	2537	365		

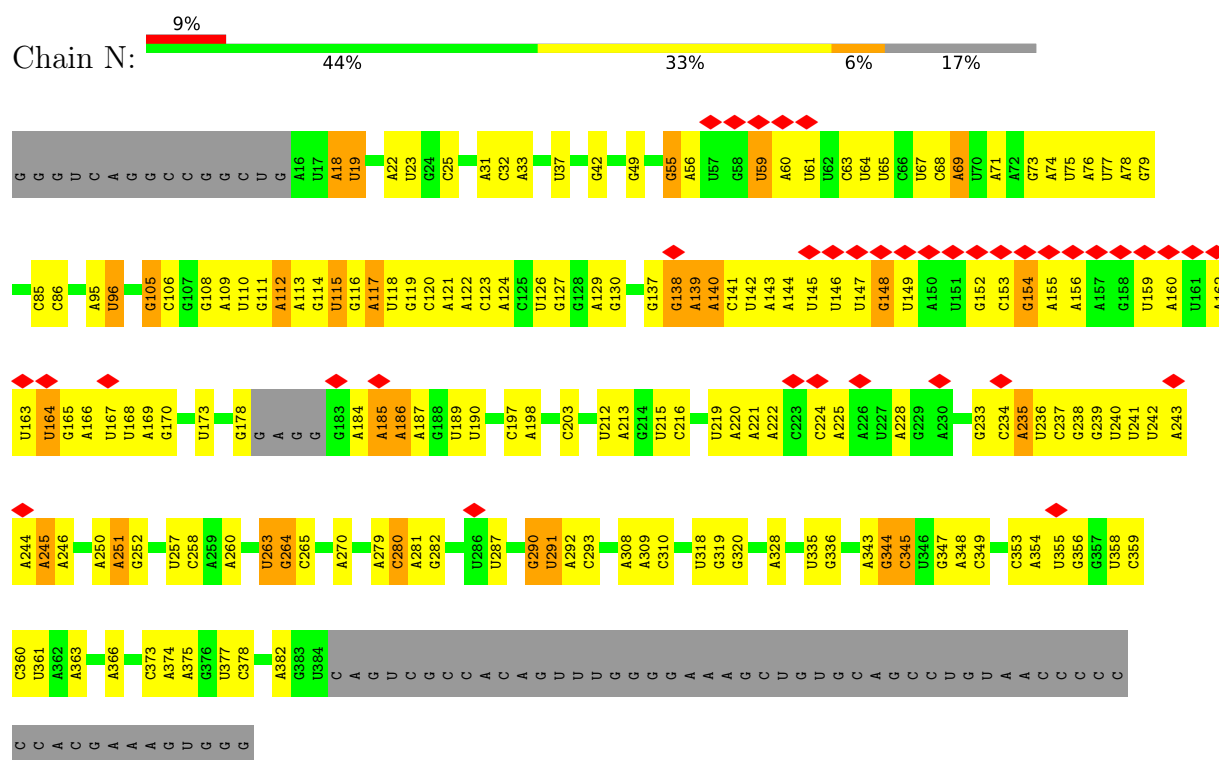
- Molecule 2 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		AltConf
2	N	27	Total	Mg	0
			27	27	

3 Residue-property plots

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

• Molecule 1: RNA (440-MER)



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	570576	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 ($e^-/\text{\AA}^2$)	50	Depositor
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	3.317	Depositor
Minimum map value	-1.128	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.031	Depositor
Recommended contour level	0.5	Depositor
Map size (Å)	403.456, 403.456, 403.456	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.788, 0.788, 0.788	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: 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	0.32	0/8747	0.33	0/13633

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	7812	0	3926	143	0
2	N	27	0	0	0	0
All	All	7839	0	3926	143	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 12.

All (143) 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:N:234:C:N4	1:N:235:A:N6	1.94	1.15
1:N:234:C:N4	1:N:235:A:H62	1.49	1.10

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:184:A:N3	1:N:186:A:N6	2.12	0.97
1:N:152:G:H1	1:N:159:U:H3	1.08	0.94
1:N:146:U:H3	1:N:165:G:H1	1.09	0.92
1:N:184:A:N6	1:N:213:A:N7	2.20	0.89
1:N:153:C:N4	1:N:154:G:N3	2.24	0.83
1:N:250:A:HO2'	1:N:252:G:HO2'	1.27	0.82
1:N:234:C:H42	1:N:235:A:N6	1.79	0.78
1:N:165:G:H2'	1:N:166:A:H8	1.48	0.78
1:N:242:U:H2'	1:N:243:A:C8	2.18	0.78
1:N:112:A:N6	1:N:127:G:O2'	2.19	0.75
1:N:213:A:H61	1:N:251:A:H5''	1.52	0.73
1:N:242:U:H2'	1:N:243:A:H8	1.52	0.73
1:N:119:G:C6	1:N:235:A:N1	2.58	0.71
1:N:245:A:H2'	1:N:246:A:H8	1.55	0.70
1:N:165:G:H2'	1:N:166:A:C8	2.25	0.70
1:N:245:A:H2'	1:N:246:A:C8	2.28	0.68
1:N:282:G:HO2'	1:N:358:U:HO2'	1.42	0.67
1:N:118:U:H2'	1:N:119:G:C8	2.30	0.66
1:N:244:A:H2'	1:N:245:A:C8	2.31	0.66
1:N:142:U:H2'	1:N:143:A:H8	1.63	0.64
1:N:18:A:O2'	1:N:19:U:O5'	2.15	0.63
1:N:142:U:H2'	1:N:143:A:C8	2.34	0.63
1:N:118:U:H2'	1:N:119:G:H8	1.64	0.62
1:N:146:U:O2	1:N:165:G:N2	2.27	0.62
1:N:152:G:N2	1:N:159:U:O2	2.26	0.61
1:N:139:A:H3'	1:N:140:A:H8	1.64	0.61
1:N:221:A:H2'	1:N:222:A:H8	1.64	0.61
1:N:241:U:H2'	1:N:242:U:C6	2.35	0.60
1:N:238:G:H2'	1:N:239:G:H8	1.64	0.60
1:N:114:G:HO2'	1:N:115:U:H6	1.50	0.60
1:N:123:C:H2'	1:N:124:A:C8	2.37	0.60
1:N:112:A:H2'	1:N:113:A:O4'	2.02	0.59
1:N:244:A:H2'	1:N:245:A:H8	1.68	0.58
1:N:221:A:H2'	1:N:222:A:C8	2.39	0.58
1:N:234:C:C4	1:N:235:A:N6	2.68	0.58
1:N:59:U:H2'	1:N:60:A:C8	2.39	0.57
1:N:123:C:H2'	1:N:124:A:H8	1.68	0.56
1:N:138:G:H21	1:N:139:A:H62	1.53	0.56
1:N:164:U:H2'	1:N:165:G:C8	2.40	0.56
1:N:220:A:H2'	1:N:221:A:C8	2.40	0.56
1:N:344:G:N3	1:N:344:G:H2'	2.21	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:159:U:H2'	1:N:160:A:C8	2.42	0.55
1:N:240:U:H2'	1:N:241:U:H6	1.73	0.54
1:N:243:A:H2'	1:N:244:A:C8	2.42	0.54
1:N:347:G:H2'	1:N:348:A:C8	2.43	0.54
1:N:152:G:O6	1:N:159:U:O4	2.26	0.54
1:N:241:U:H2'	1:N:242:U:H6	1.73	0.53
1:N:292:A:H2'	1:N:293:C:O4'	2.08	0.53
1:N:166:A:H2'	1:N:167:U:C6	2.44	0.53
1:N:140:A:H2'	1:N:141:C:H6	1.73	0.53
1:N:263:U:H2'	1:N:264:G:C8	2.43	0.53
1:N:240:U:H2'	1:N:241:U:C6	2.43	0.53
1:N:63:C:H2'	1:N:64:U:H6	1.74	0.53
1:N:18:A:HO2'	1:N:19:U:P	2.33	0.52
1:N:143:A:H2'	1:N:144:A:C8	2.43	0.52
1:N:347:G:H2'	1:N:348:A:H8	1.75	0.52
1:N:68:C:H2'	1:N:69:A:O4'	2.10	0.52
1:N:113:A:H61	1:N:126:U:H3	1.58	0.52
1:N:219:U:H2'	1:N:220:A:C8	2.45	0.52
1:N:167:U:H2'	1:N:168:U:C6	2.45	0.51
1:N:280:C:H2'	1:N:282:G:N7	2.25	0.51
1:N:110:U:H2'	1:N:111:G:H5''	1.91	0.51
1:N:169:A:H2'	1:N:170:G:C8	2.46	0.51
1:N:219:U:H2'	1:N:220:A:H8	1.75	0.51
1:N:374:A:H2'	1:N:375:A:C8	2.46	0.51
1:N:140:A:H2'	1:N:141:C:C6	2.46	0.51
1:N:64:U:H2'	1:N:65:U:C6	2.47	0.50
1:N:120:C:H2'	1:N:121:A:C8	2.46	0.50
1:N:236:U:H2'	1:N:237:C:C6	2.46	0.50
1:N:119:G:C6	1:N:235:A:C6	3.00	0.49
1:N:263:U:H2'	1:N:264:G:H8	1.77	0.49
1:N:360:C:H2'	1:N:361:U:H6	1.76	0.49
1:N:155:A:H3'	1:N:156:A:H8	1.77	0.48
1:N:228:A:H62	1:N:237:C:H2'	1.78	0.48
1:N:168:U:H2'	1:N:169:A:C8	2.48	0.48
1:N:238:G:H2'	1:N:239:G:C8	2.48	0.48
1:N:120:C:H2'	1:N:121:A:H8	1.78	0.48
1:N:318:U:H2'	1:N:319:G:O4'	2.13	0.48
1:N:291:U:H2'	1:N:292:A:C8	2.48	0.48
1:N:144:A:H2'	1:N:145:U:C6	2.48	0.48
1:N:308:A:H2'	1:N:309:A:C8	2.49	0.48
1:N:187:A:O2'	1:N:252:G:OP1	2.31	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:49:G:O2'	1:N:251:A:N1	2.31	0.47
1:N:63:C:H2'	1:N:64:U:C6	2.49	0.47
1:N:141:C:H2'	1:N:142:U:H6	1.78	0.47
1:N:189:U:H2'	1:N:190:U:C6	2.49	0.47
1:N:343:A:H5'	1:N:344:G:OP2	2.14	0.47
1:N:109:A:H2'	1:N:110:U:O4'	2.15	0.47
1:N:37:U:O2'	1:N:113:A:O2'	2.33	0.46
1:N:152:G:H2'	1:N:153:C:C6	2.50	0.46
1:N:77:U:H2'	1:N:78:A:C8	2.50	0.46
1:N:138:G:OP1	1:N:139:A:H5'	2.15	0.46
1:N:162:A:H2'	1:N:163:U:O4'	2.15	0.46
1:N:141:C:H2'	1:N:142:U:C6	2.51	0.46
1:N:77:U:H2'	1:N:78:A:H8	1.81	0.45
1:N:168:U:H2'	1:N:169:A:H8	1.81	0.45
1:N:344:G:H4'	1:N:345:C:O5'	2.16	0.45
1:N:152:G:N1	1:N:159:U:N3	2.32	0.45
1:N:85:C:H2'	1:N:86:C:C6	2.52	0.45
1:N:129:A:H2'	1:N:130:G:O4'	2.16	0.45
1:N:224:C:H2'	1:N:225:A:C8	2.52	0.45
1:N:152:G:C6	1:N:160:A:C6	3.05	0.44
1:N:143:A:H2'	1:N:144:A:H8	1.80	0.44
1:N:257:U:H2'	1:N:258:C:C6	2.52	0.44
1:N:184:A:H4'	1:N:185:A:C8	2.52	0.44
1:N:166:A:H2'	1:N:167:U:H6	1.81	0.44
1:N:108:G:H2'	1:N:109:A:C8	2.53	0.44
1:N:290:G:O2'	1:N:291:U:OP1	2.35	0.44
1:N:184:A:N6	1:N:212:U:H2'	2.33	0.43
1:N:105:G:H2'	1:N:106:C:H6	1.83	0.43
1:N:111:G:HO2'	1:N:112:A:H8	1.63	0.43
1:N:291:U:H2'	1:N:292:A:H8	1.83	0.43
1:N:377:U:H2'	1:N:378:C:C6	2.53	0.43
1:N:119:G:O6	1:N:235:A:N6	2.51	0.43
1:N:22:A:H2'	1:N:23:U:O4'	2.18	0.43
1:N:215:U:H2'	1:N:216:C:C6	2.54	0.43
1:N:220:A:C2	1:N:243:A:C2	3.07	0.42
1:N:148:G:H2'	1:N:149:U:C6	2.54	0.42
1:N:95:A:H2'	1:N:96:U:O2	2.18	0.42
1:N:169:A:H2'	1:N:170:G:H8	1.83	0.42
1:N:360:C:H2'	1:N:361:U:C6	2.55	0.42
1:N:260:A:N3	1:N:373:C:O2'	2.48	0.42
1:N:282:G:O2'	1:N:358:U:O2'	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:105:G:H2'	1:N:106:C:C6	2.55	0.41
1:N:348:A:C6	1:N:349:C:C4	3.09	0.41
1:N:137:G:H3'	1:N:138:G:C5'	2.50	0.41
1:N:270:A:C6	1:N:363:A:C4	3.09	0.41
1:N:215:U:H2'	1:N:216:C:H6	1.86	0.41
1:N:220:A:H2'	1:N:221:A:H8	1.80	0.41
1:N:19:U:H6	1:N:19:U:H2'	1.71	0.41
1:N:67:U:H2'	1:N:68:C:C6	2.56	0.41
1:N:114:G:O2'	1:N:115:U:H6	2.03	0.41
1:N:244:A:O2'	1:N:245:A:H5'	2.21	0.41
1:N:118:U:C2	1:N:119:G:N7	2.89	0.41
1:N:55:G:C2	1:N:56:A:C5	3.09	0.40
1:N:64:U:H2'	1:N:65:U:H6	1.86	0.40
1:N:152:G:O6	1:N:160:A:N6	2.54	0.40
1:N:358:U:H2'	1:N:359:C:C6	2.56	0.40
1:N:220:A:C6	1:N:243:A:N1	2.89	0.40
1:N:116:G:H5'	1:N:117:A:H5'	2.04	0.40
1:N:189:U:H2'	1:N:190:U:H6	1.86	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

There are no protein molecules in this entry.

5.3.2 Protein sidechains [i](#)

There are no protein molecules in this entry.

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	N	363/440 (82%)	61 (16%)	5 (1%)

All (61) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	N	19	U
1	N	25	C
1	N	31	A
1	N	32	C
1	N	33	A
1	N	42	G
1	N	55	G
1	N	59	U
1	N	61	U
1	N	69	A
1	N	71	A
1	N	73	G
1	N	74	A
1	N	75	U
1	N	76	A
1	N	79	G
1	N	96	U
1	N	105	G
1	N	112	A
1	N	115	U
1	N	117	A
1	N	122	A
1	N	138	G
1	N	139	A
1	N	140	A
1	N	147	U
1	N	148	G
1	N	154	G
1	N	164	U
1	N	173	U
1	N	178	G
1	N	185	A
1	N	186	A
1	N	197	C
1	N	198	A
1	N	203	C
1	N	233	G
1	N	235	A
1	N	245	A
1	N	251	A
1	N	263	U
1	N	264	G
1	N	265	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	N	279	A
1	N	280	C
1	N	281	A
1	N	287	U
1	N	290	G
1	N	291	U
1	N	310	C
1	N	320	G
1	N	328	A
1	N	336	G
1	N	344	G
1	N	345	C
1	N	353	C
1	N	354	A
1	N	355	U
1	N	356	G
1	N	366	A
1	N	382	A

All (5) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	N	18	A
1	N	263	U
1	N	290	G
1	N	335	U
1	N	344	G

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 27 ligands modelled in this entry, 27 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

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

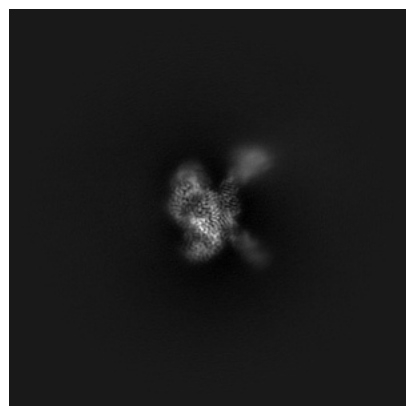
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-41313. These allow visual inspection of the internal detail of the map and identification of artifacts.

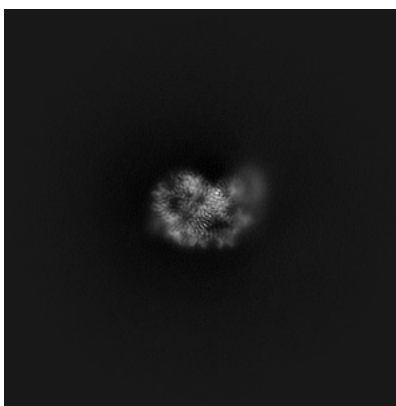
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

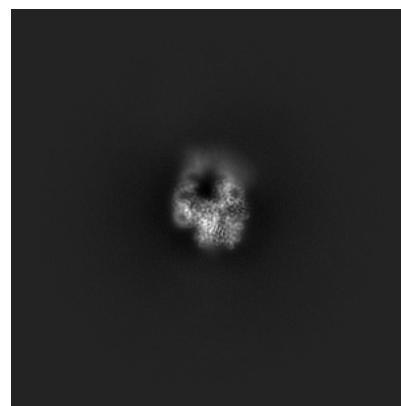
6.1.1 Primary map



X

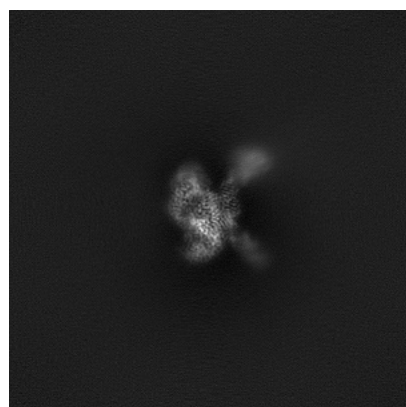


Y

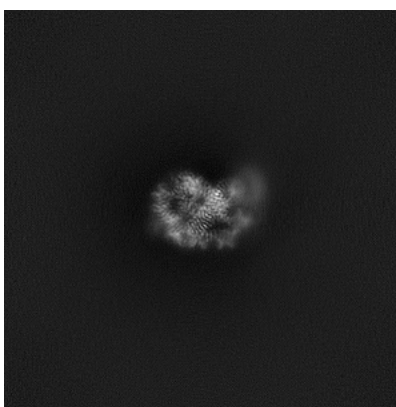


Z

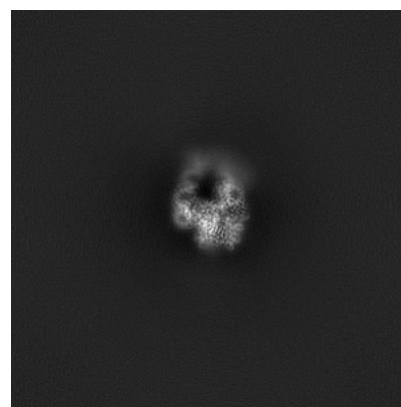
6.1.2 Raw map



X



Y

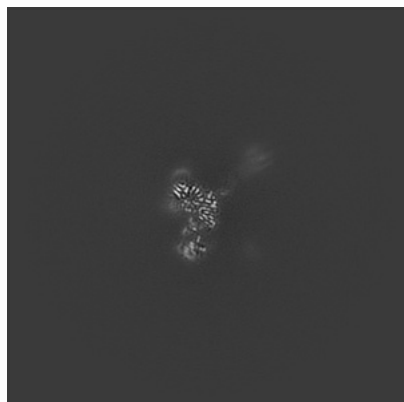


Z

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

6.2 Central slices [i](#)

6.2.1 Primary map



X Index: 256

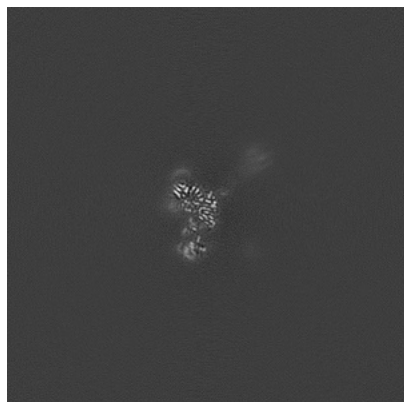


Y Index: 256

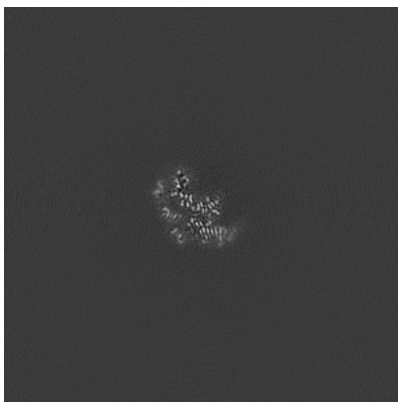


Z Index: 256

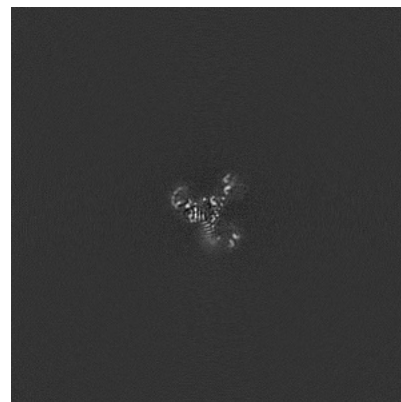
6.2.2 Raw map



X Index: 256



Y Index: 256



Z Index: 256

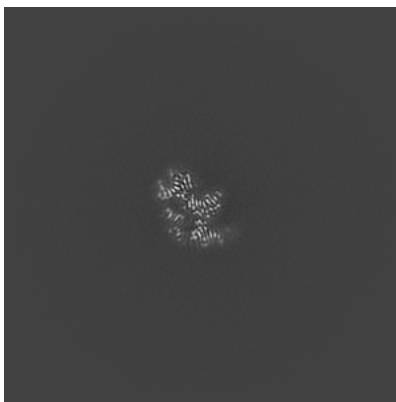
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

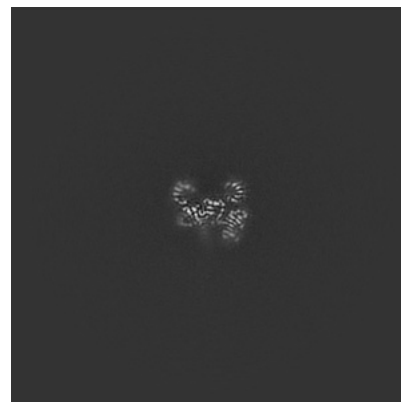
6.3.1 Primary map



X Index: 276

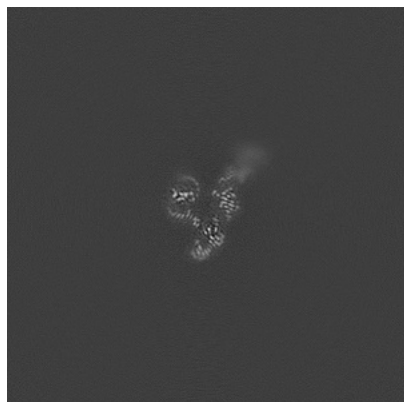


Y Index: 261

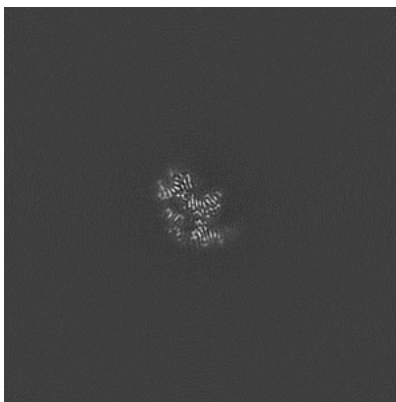


Z Index: 242

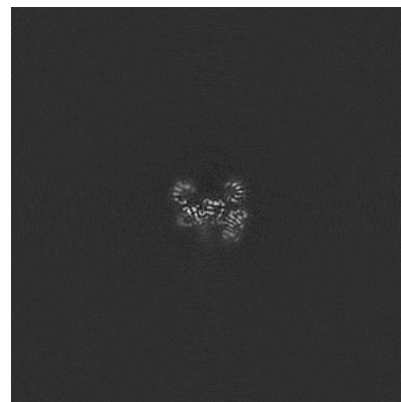
6.3.2 Raw map



X Index: 276



Y Index: 261

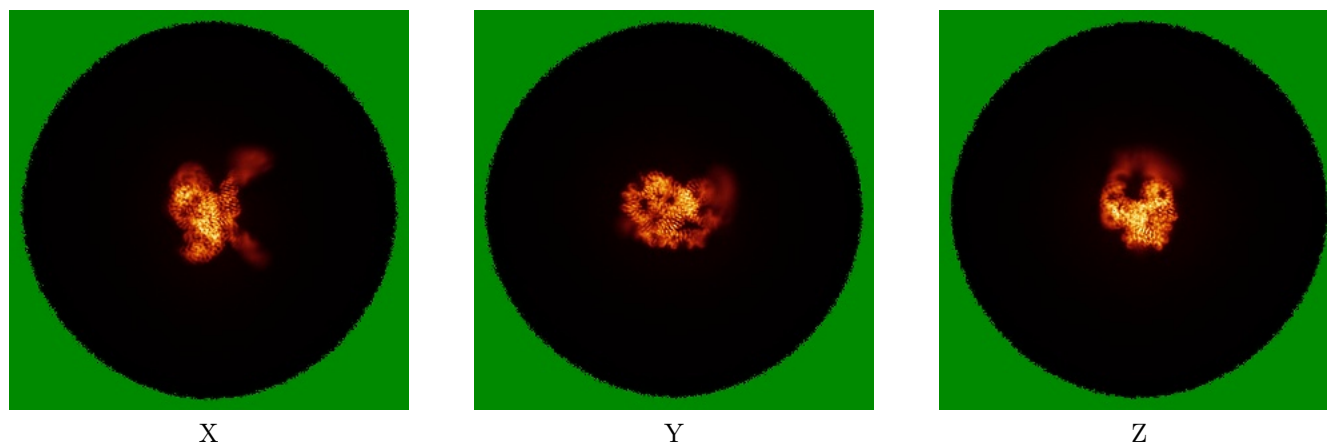


Z Index: 242

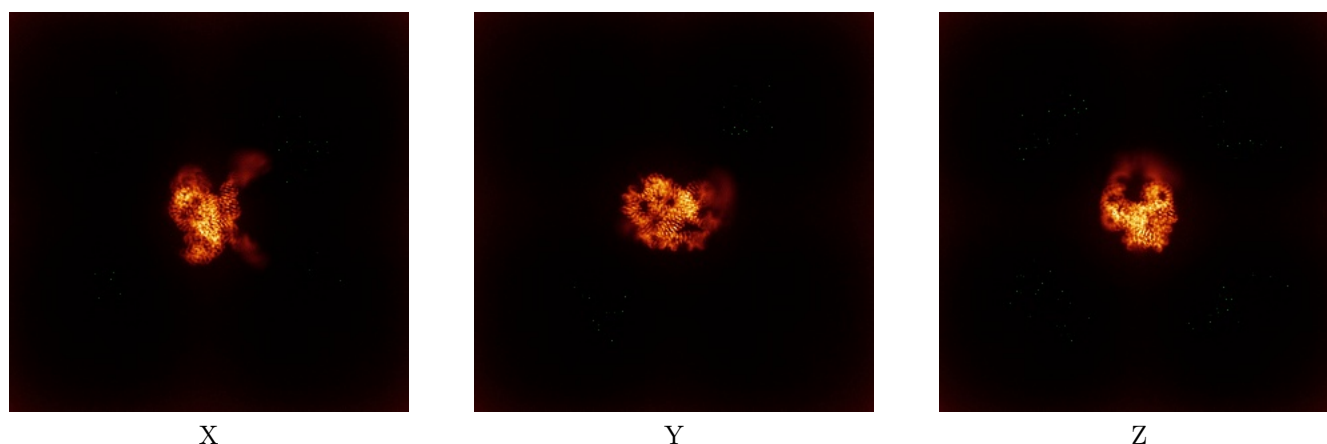
The images above show the largest variance slices of the map in three orthogonal directions.

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

6.4.1 Primary map



6.4.2 Raw map



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](#)

This section was not generated.

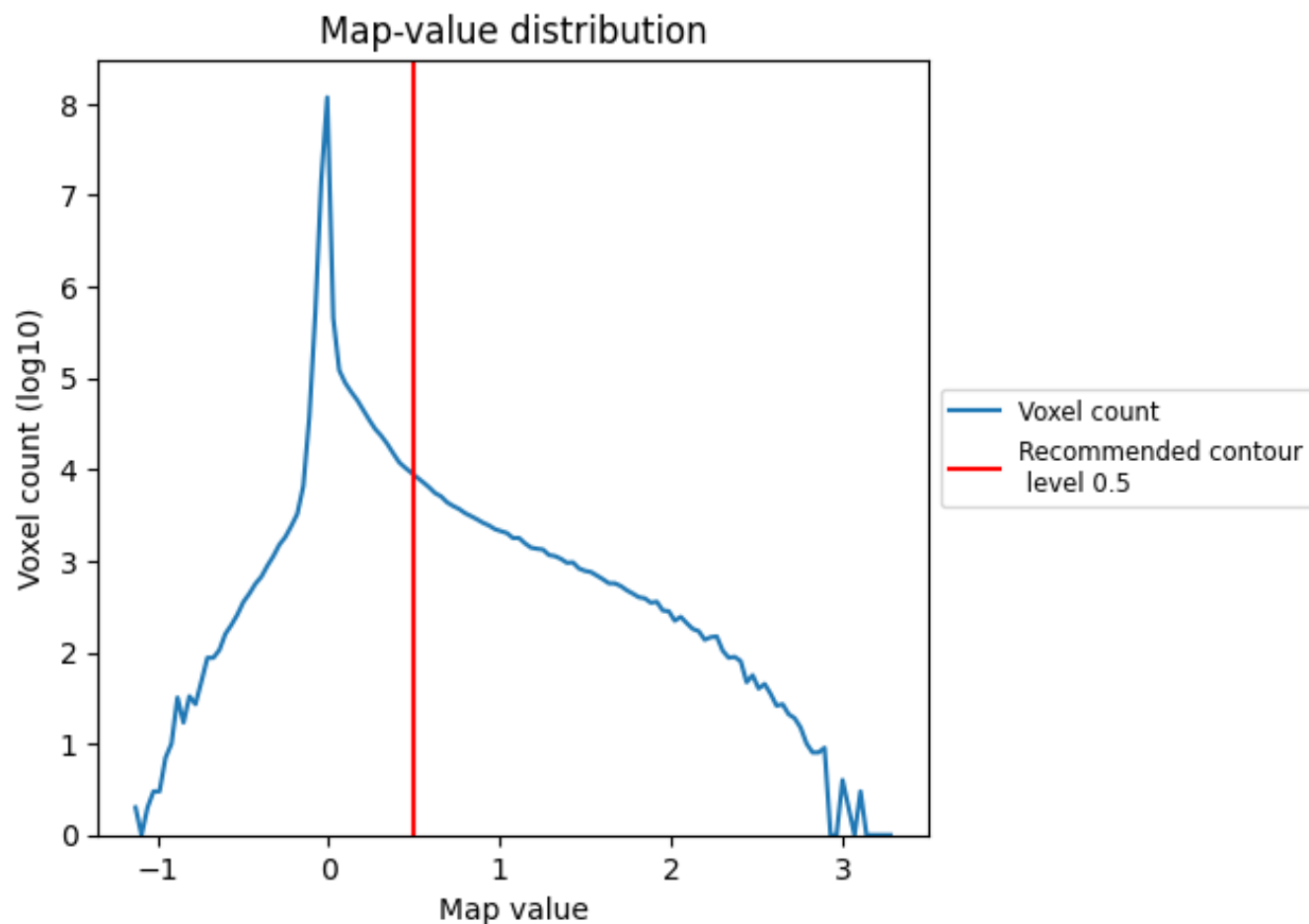
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

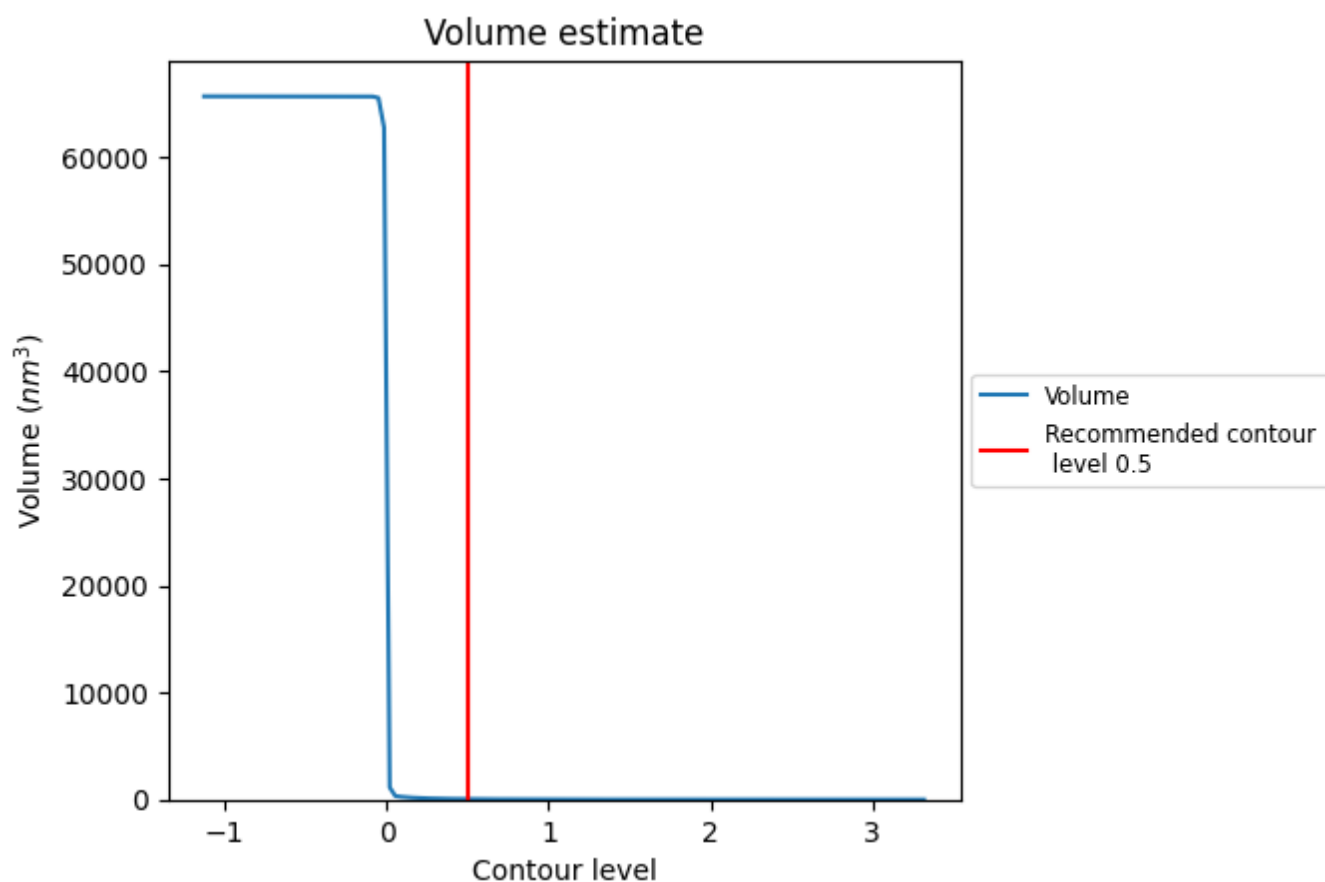
This section contains the results of statistical analysis of the map.

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.

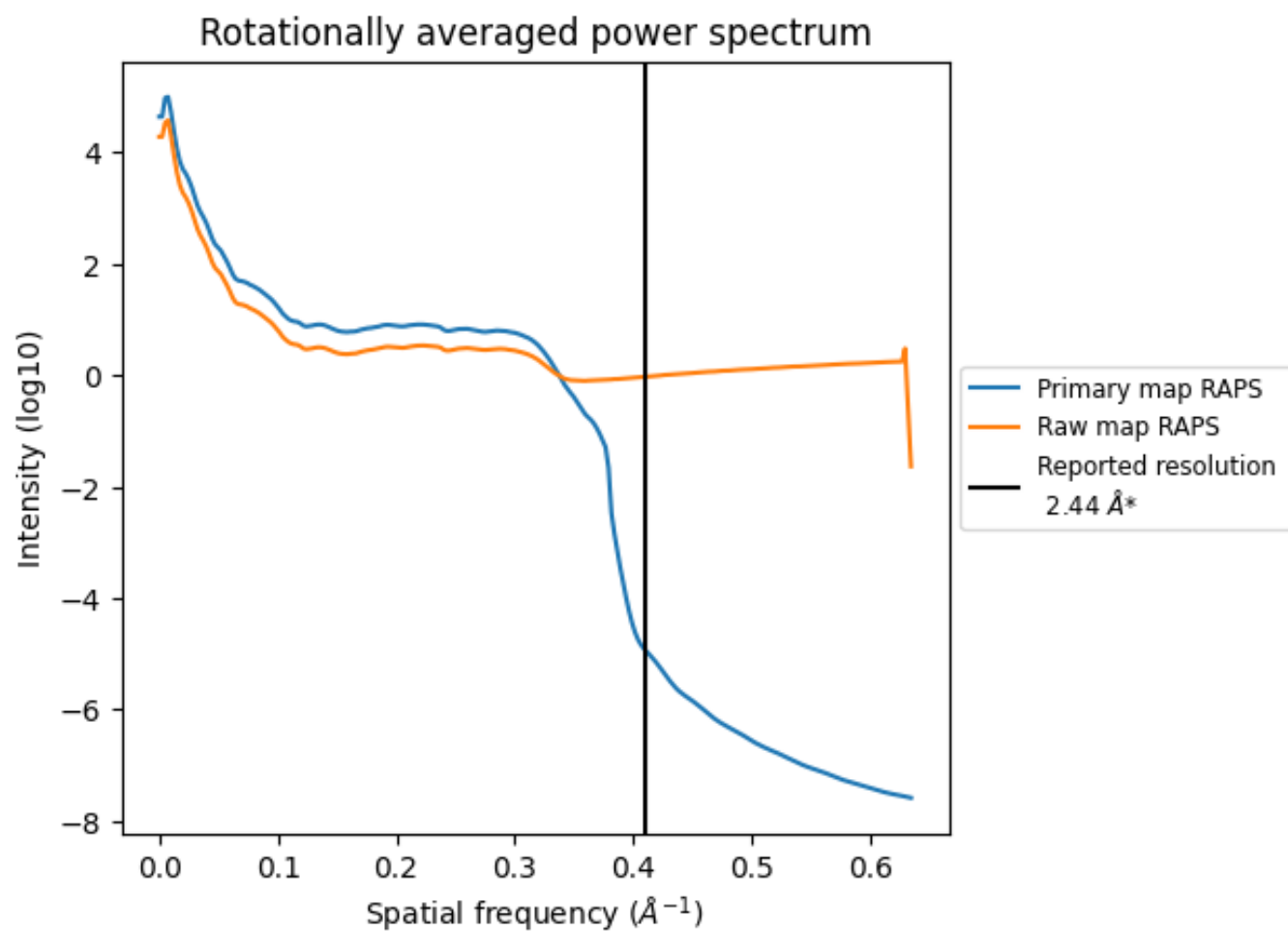
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 46 nm³; this corresponds to an approximate mass of 42 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 ⓘ

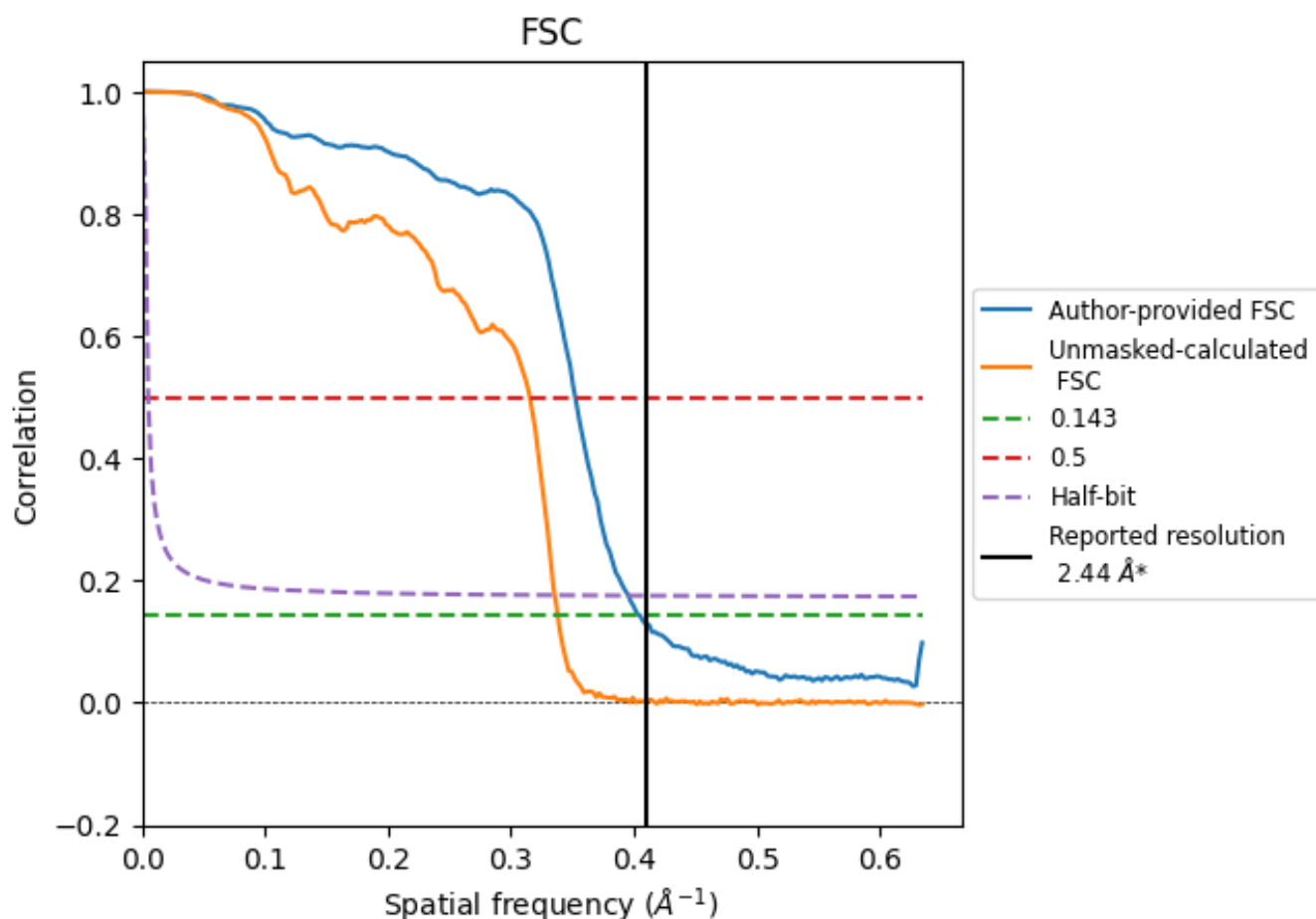


*Reported resolution corresponds to spatial frequency of 0.410 $\text{\AA}^{-1}$

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 0.410 Å⁻¹

8.2 Resolution estimates [i](#)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.44	-	-
Author-provided FSC curve	2.47	2.84	2.53
Unmasked-calculated*	2.96	3.17	2.98

*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 2.96 differs from the reported value 2.44 by more than 10 %

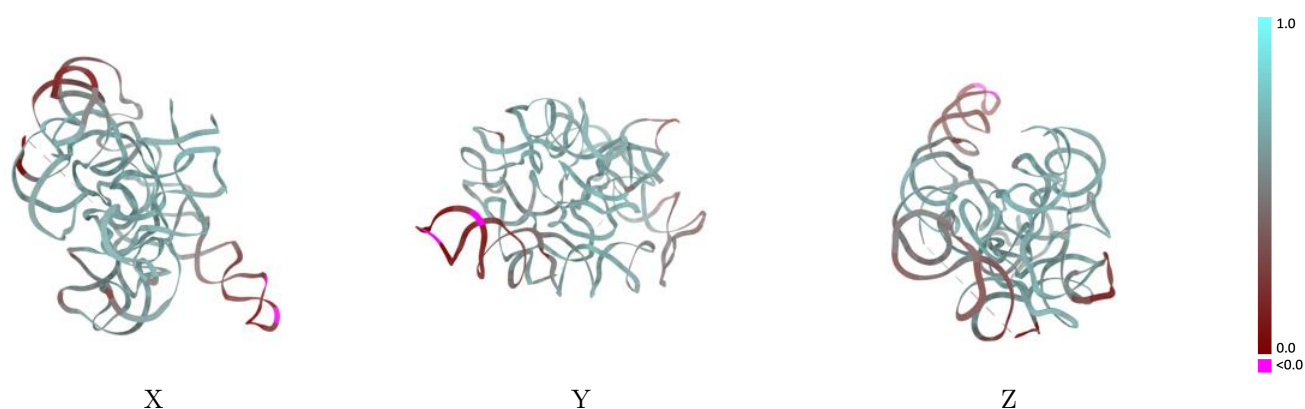
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-41313 and PDB model 8TJX. Per-residue inclusion information can be found in section 3 on page 4.

9.1 Map-model overlay [i](#)

This section was not generated.

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

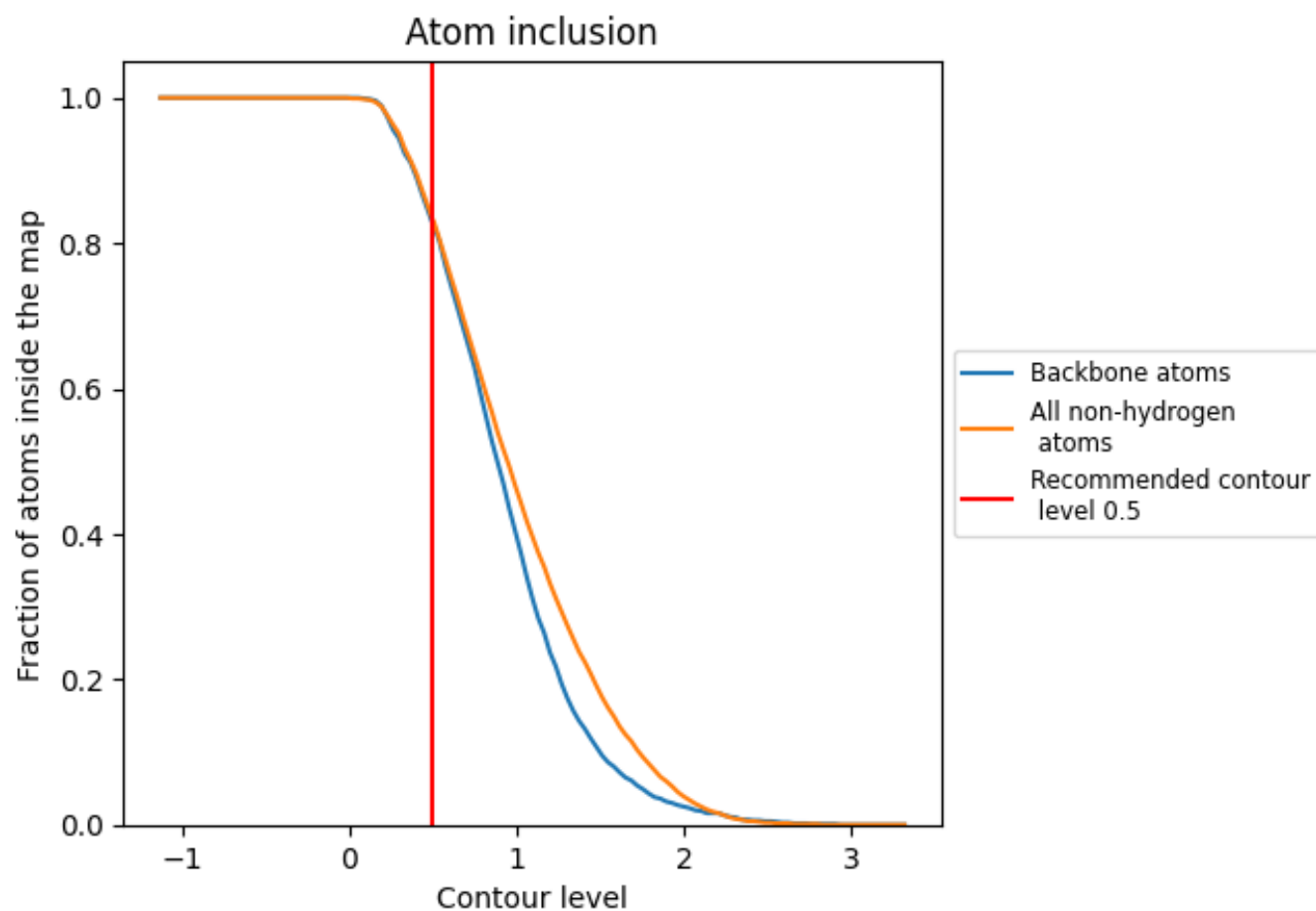


The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

This section was not generated.

9.4 Atom inclusion [i](#)



At the recommended contour level, 82% of all backbone atoms, 83% 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 (0.5) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8310	0.5410
N	0.8320	0.5410

