



wwPDB EM Validation Summary Report ⓘ

Mar 8, 2026 – 12:44 AM UTC

PDB ID : 9R7X / pdb_00009r7x
EMDB ID : EMD-53796
Title : RNA-free helical (h8.5) virus-like particle composed of PVA (isolate Datura)
coat protein
Authors : Koritnik, N.; Kezar, A.; Podobnik, M.
Deposited on : 2025-05-15
Resolution : 2.63 Å(reported)

This is a wwPDB EM Validation Summary Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

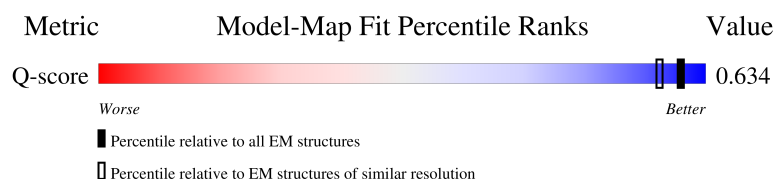
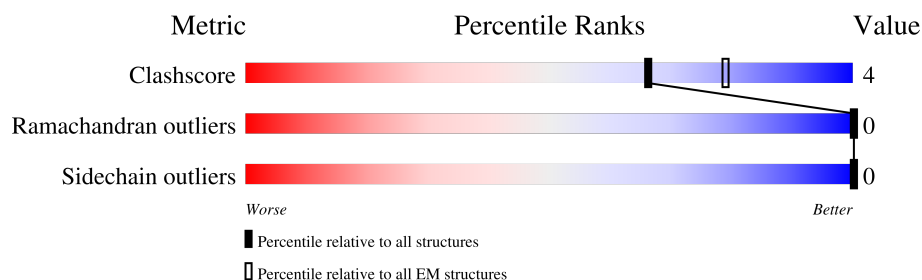
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDb archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & 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 2.63 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.



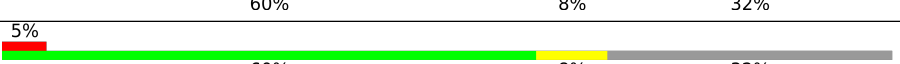
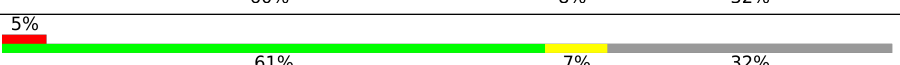
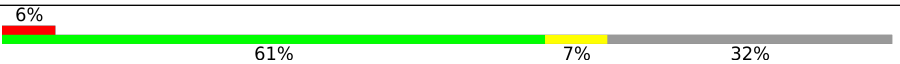
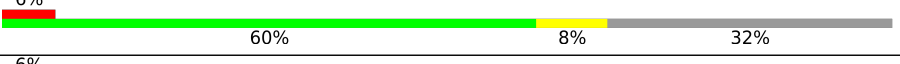
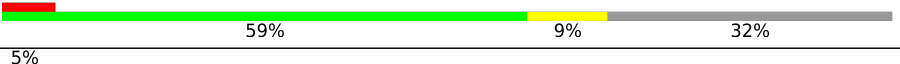
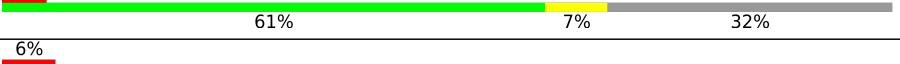
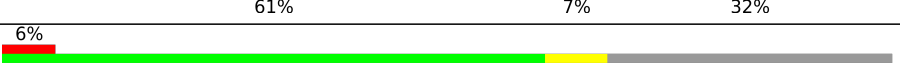
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	8888 (2.13 - 3.13)

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	Aa	269	
1	Ab	269	
1	Ac	269	
1	Ad	269	

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Mol	Chain	Length	Quality of chain
1	Ae	269	
1	Af	269	
1	Ag	269	
1	Ah	269	
1	Ai	269	
1	Aj	269	
1	Ak	269	
1	Al	269	
1	Am	269	
1	An	269	
1	Ao	269	
1	Ap	269	
1	Aq	269	
1	Ar	269	
1	As	269	
1	At	269	
1	Au	269	
1	Av	269	
1	Aw	269	
1	Ax	269	

2 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 35592 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Genome polypeptide.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	Aa	183	Total	C	N	O	S	0	0
			1483	939	258	273	13		
1	Ab	183	Total	C	N	O	S	0	0
			1483	939	258	273	13		
1	Ac	183	Total	C	N	O	S	0	0
			1483	939	258	273	13		
1	Ad	183	Total	C	N	O	S	0	0
			1483	939	258	273	13		
1	Ae	183	Total	C	N	O	S	0	0
			1483	939	258	273	13		
1	Af	183	Total	C	N	O	S	0	0
			1483	939	258	273	13		
1	Ag	183	Total	C	N	O	S	0	0
			1483	939	258	273	13		
1	Ah	183	Total	C	N	O	S	0	0
			1483	939	258	273	13		
1	Ai	183	Total	C	N	O	S	0	0
			1483	939	258	273	13		
1	Aj	183	Total	C	N	O	S	0	0
			1483	939	258	273	13		
1	Ak	183	Total	C	N	O	S	0	0
			1483	939	258	273	13		
1	Al	183	Total	C	N	O	S	0	0
			1483	939	258	273	13		
1	Am	183	Total	C	N	O	S	0	0
			1483	939	258	273	13		
1	An	183	Total	C	N	O	S	0	0
			1483	939	258	273	13		
1	Ao	183	Total	C	N	O	S	0	0
			1483	939	258	273	13		
1	Ap	183	Total	C	N	O	S	0	0
			1483	939	258	273	13		
1	Aq	183	Total	C	N	O	S	0	0
			1483	939	258	273	13		

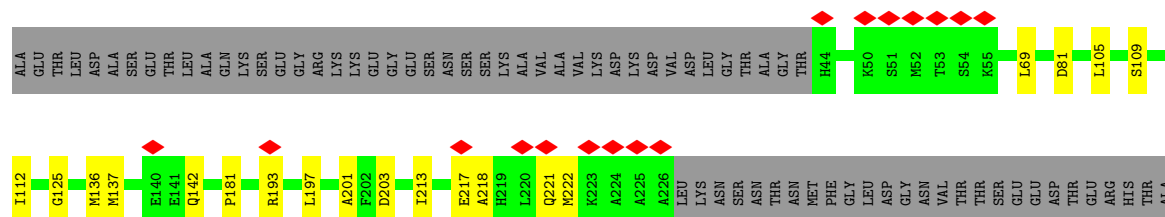
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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Ar	183	Total	C	N	O	S	0	0
			1483	939	258	273	13		
1	As	183	Total	C	N	O	S	0	0
			1483	939	258	273	13		
1	At	183	Total	C	N	O	S	0	0
			1483	939	258	273	13		
1	Au	183	Total	C	N	O	S	0	0
			1483	939	258	273	13		
1	Av	183	Total	C	N	O	S	0	0
			1483	939	258	273	13		
1	Aw	183	Total	C	N	O	S	0	0
			1483	939	258	273	13		
1	Ax	183	Total	C	N	O	S	0	0
			1483	939	258	273	13		

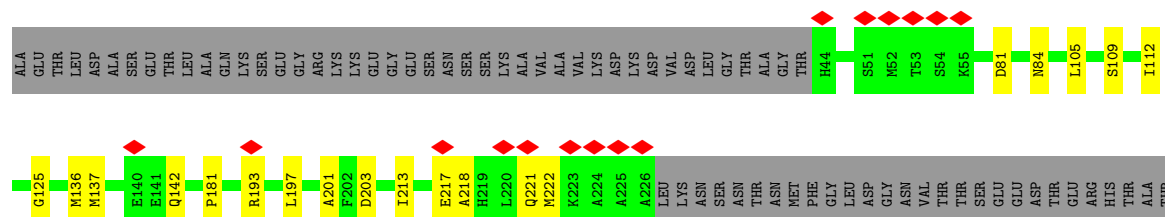
ALA
THR
ASP
VAL
ASN
ARG
ASN
MET
HIS
LEU
LEU
GLY
VAL
GLY
VAL

• Molecule 1: Genome polyprotein



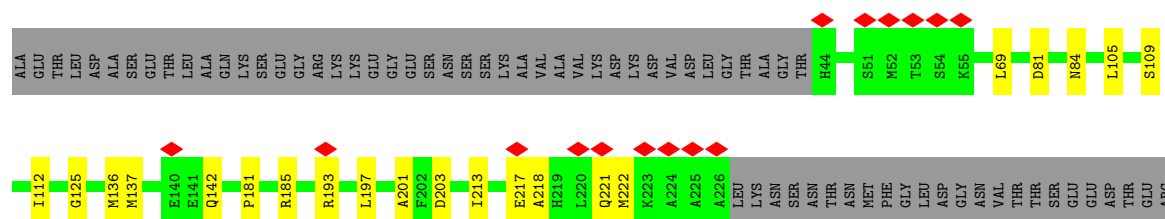
THR
ASP
VAL
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ARG
MET
HIS
HIS
LEU
LEU
GLY
VAL
LYS
VAL

• Molecule 1: Genome polyprotein



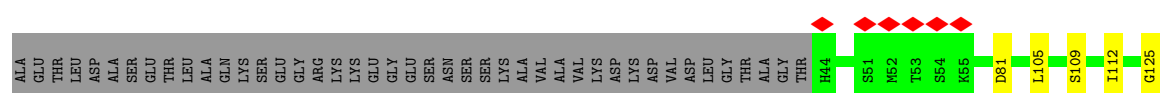
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HIS
LEU
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VAL
LYS
VAL

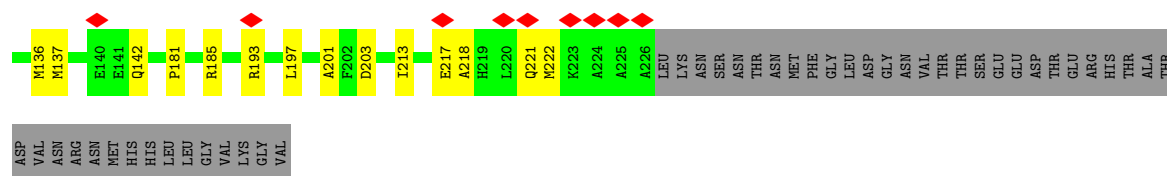
• Molecule 1: Genome polyprotein



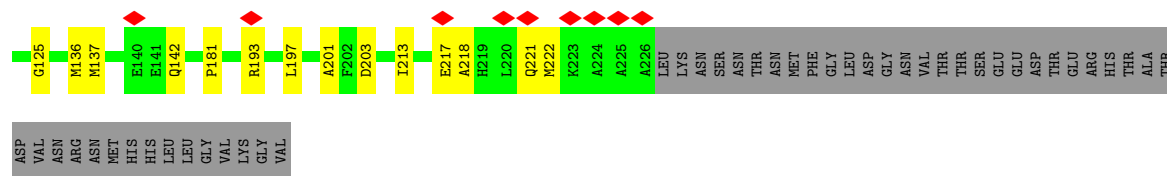
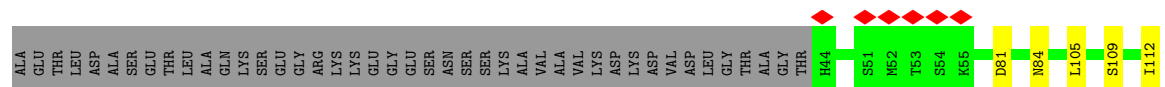
HIS
THR
ALA
THR
ASP
VAL
ASN
ARG
ASN
MET
HIS
HIS
LEU
LEU
GLY
LYS
VAL

• Molecule 1: Genome polyprotein

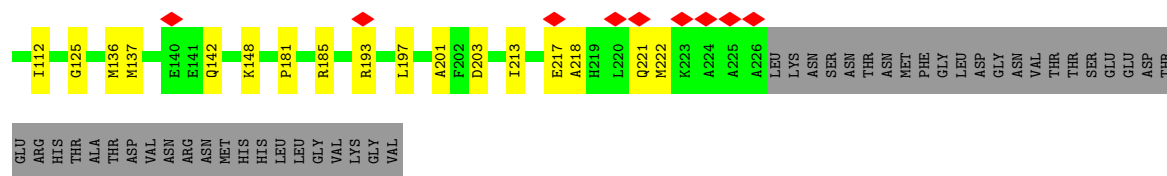
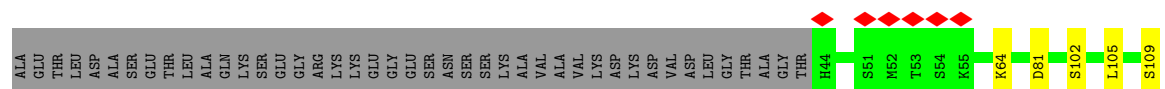




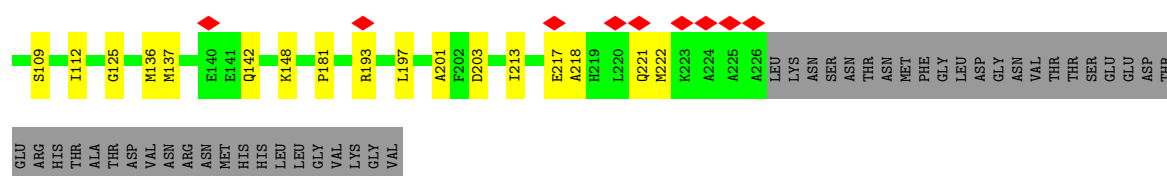
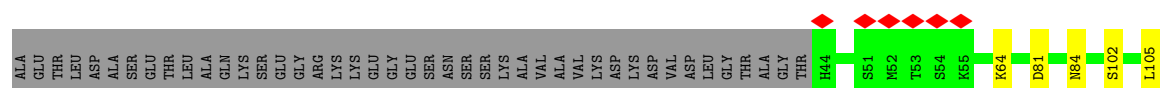
- Molecule 1: Genome polypeptide



- Molecule 1: Genome polypprotein

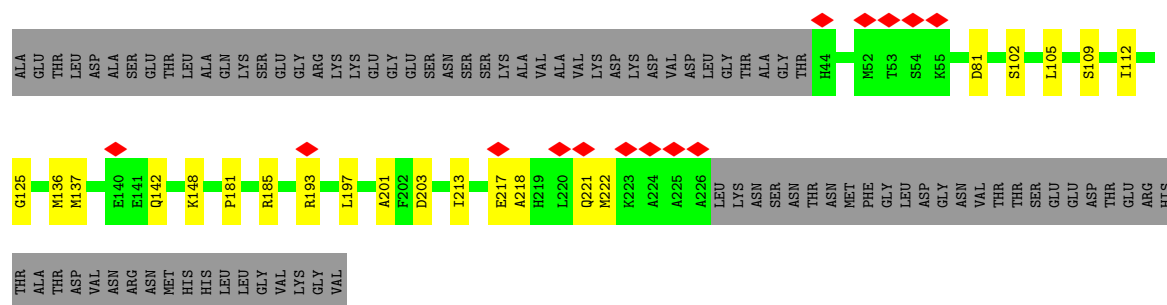


- Molecule 1: Genome polypeptide

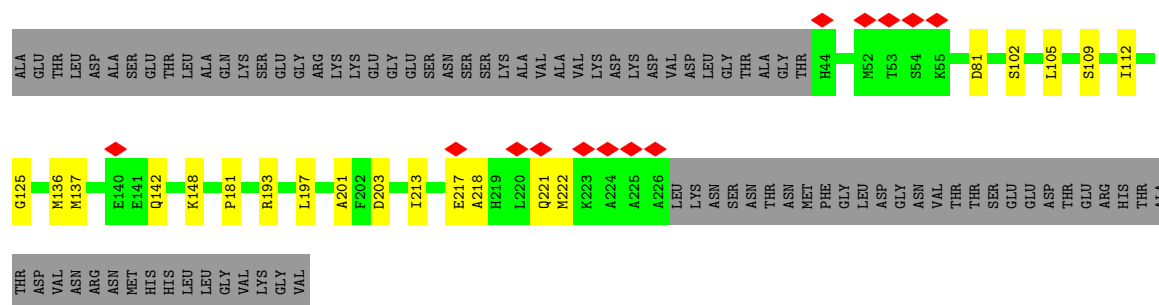


- Molecule 1: Genome polypeptide

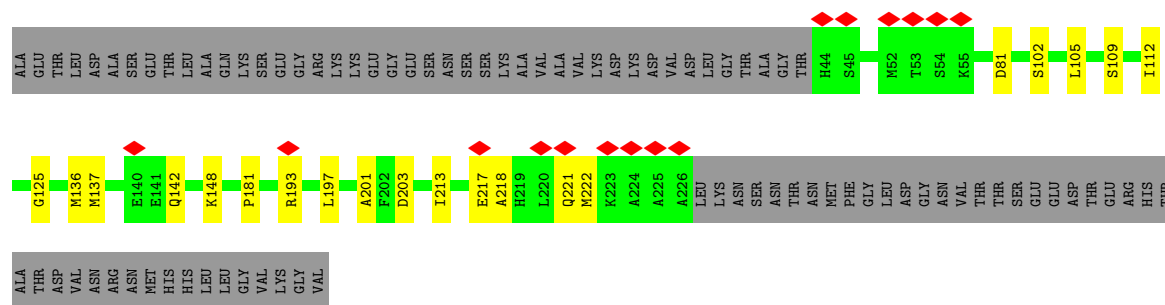




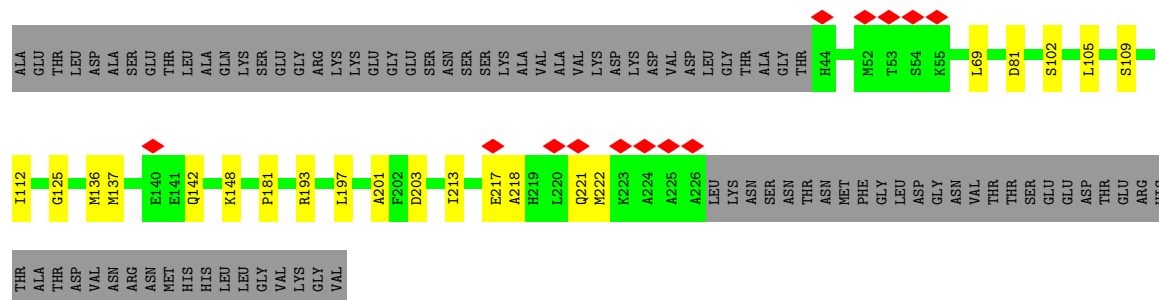
- Molecule 1: Genome polyprotein



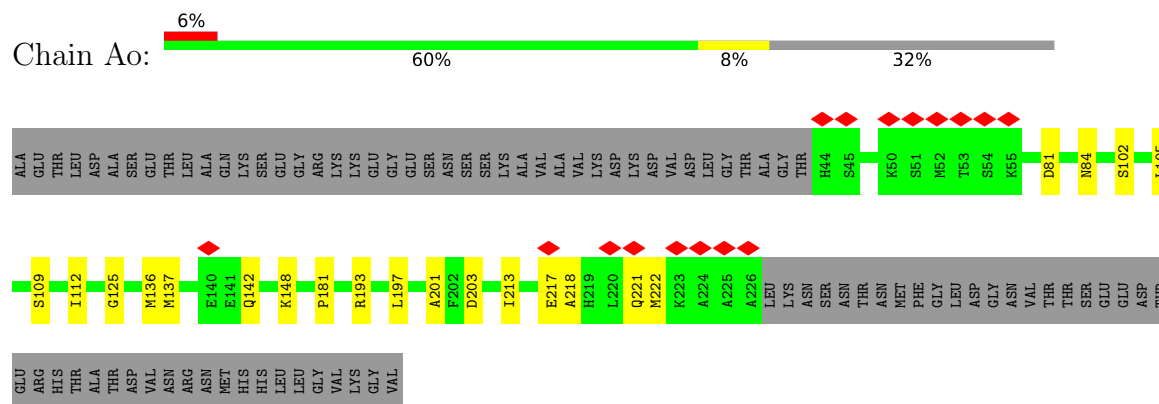
- Molecule 1: Genome polypotein



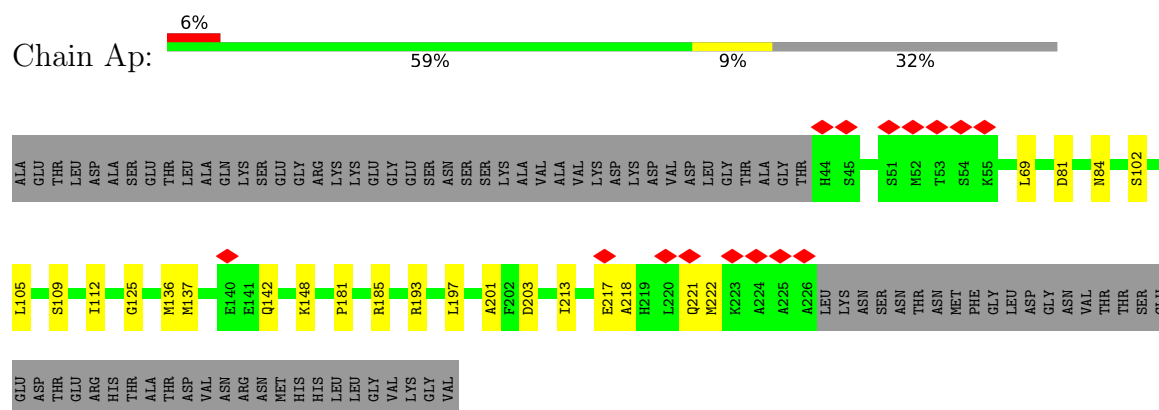
- Molecule 1: Genome polypeptide



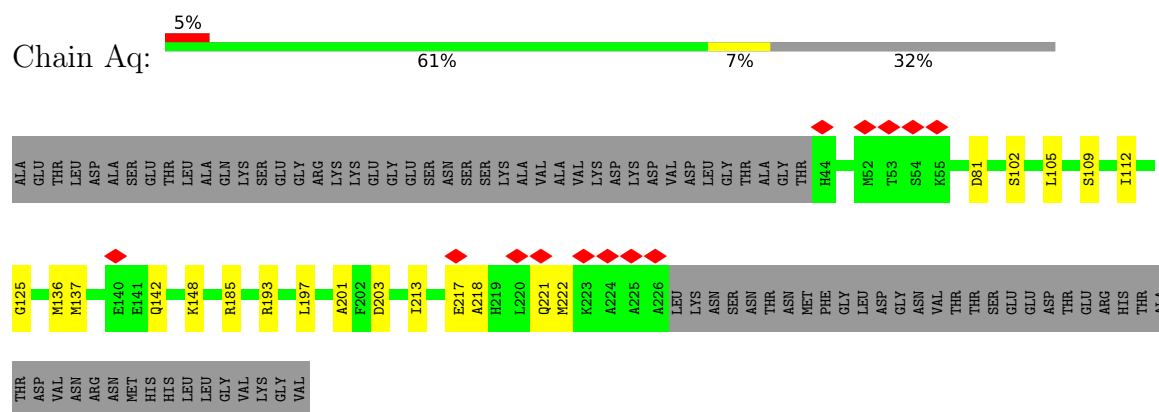
- Molecule 1: Genome polypeptide



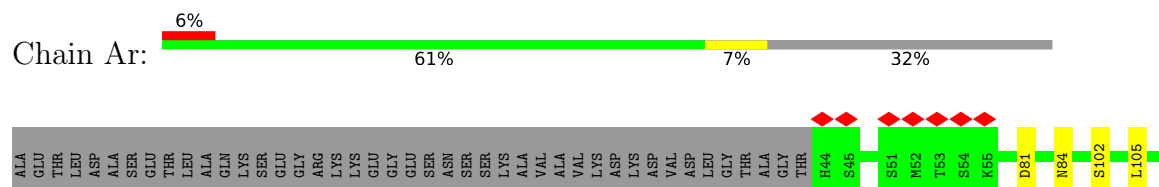
- Molecule 1: Genome polypeptide

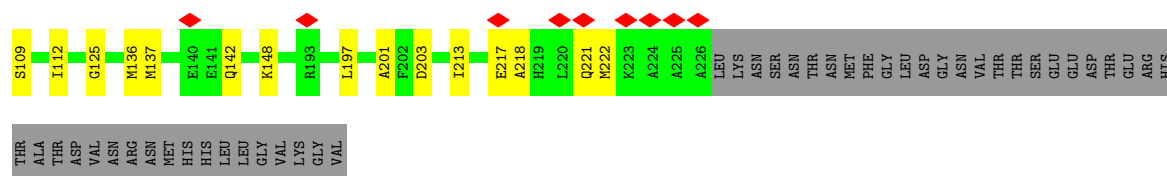


- Molecule 1: Genome polypeptide

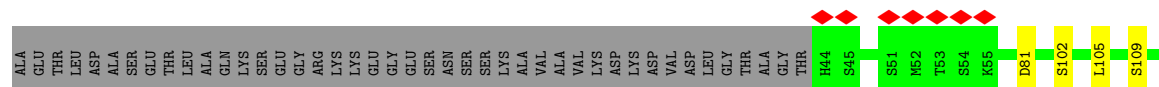


- Molecule 1: Genome polypeptide

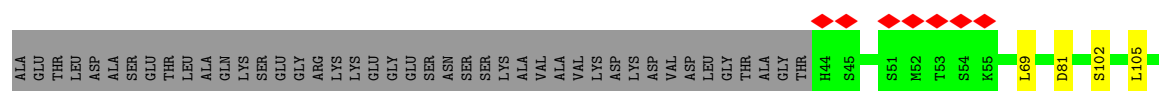




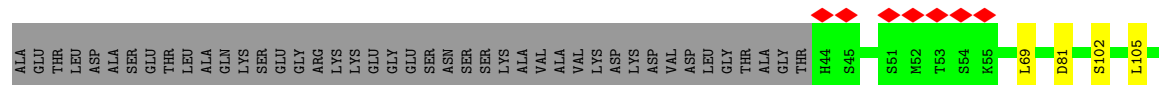
- Molecule 1: Genome polyprotein



- Molecule 1: Genome polyprotein

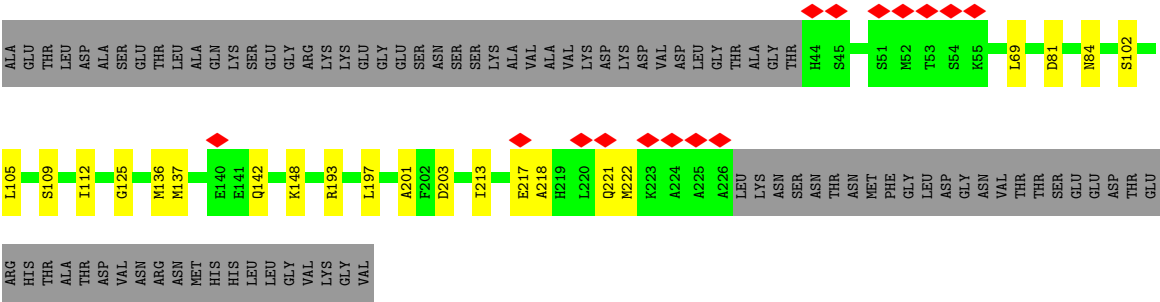


- Molecule 1: Genome polyprotein

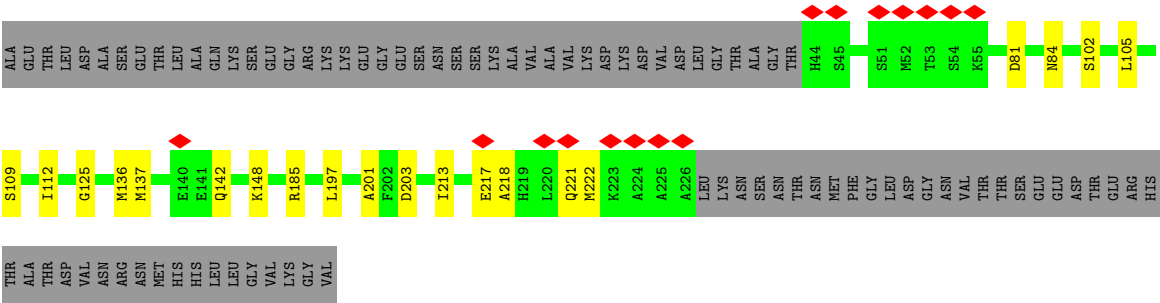


- Molecule 1: Genome polyprotein

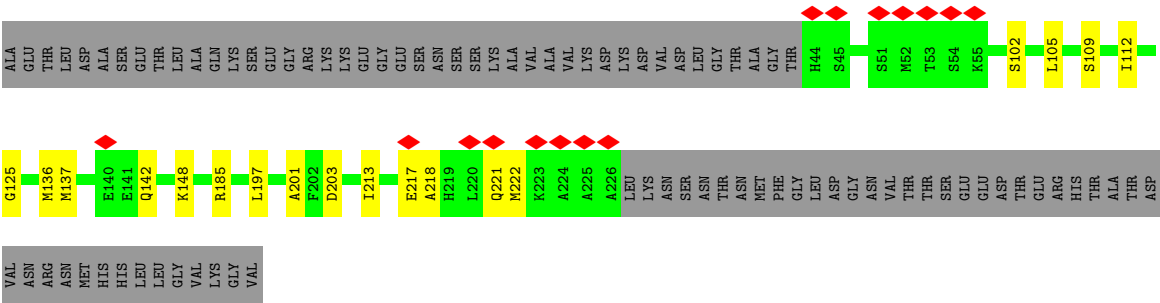




● Molecule 1: Genome polypeptide



● Molecule 1: Genome polypeptide



4 Experimental information

Property	Value	Source
EM reconstruction method	HELICAL	Depositor
Imposed symmetry	HELICAL, twist=-42.55°, rise=4.71 Å, axial sym=C1	Depositor
Number of segments used	96670	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)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	40	Depositor
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	150000	Depositor
Image detector	FEI FALCON III (4k x 4k)	Depositor
Maximum map value	7.978	Depositor
Minimum map value	-4.480	Depositor
Average map value	0.027	Depositor
Map value standard deviation	0.336	Depositor
Recommended contour level	1.37	Depositor
Map size (Å)	331.1, 331.1, 331.1	wwPDB
Map dimensions	350, 350, 350	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.94600004, 0.94600004, 0.94600004	Depositor

5 Model quality

5.1 Standard geometry

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	Aa	0.37	0/1518	0.51	0/2050
1	Ab	0.37	0/1518	0.51	0/2050
1	Ac	0.37	0/1518	0.51	0/2050
1	Ad	0.37	0/1518	0.51	0/2050
1	Ae	0.37	0/1518	0.51	0/2050
1	Af	0.37	0/1518	0.51	0/2050
1	Ag	0.37	0/1518	0.51	0/2050
1	Ah	0.37	0/1518	0.51	0/2050
1	Ai	0.37	0/1518	0.51	0/2050
1	Aj	0.37	0/1518	0.51	0/2050
1	Ak	0.37	0/1518	0.51	0/2050
1	Al	0.37	0/1518	0.51	0/2050
1	Am	0.37	0/1518	0.51	0/2050
1	An	0.37	0/1518	0.51	0/2050
1	Ao	0.37	0/1518	0.51	0/2050
1	Ap	0.37	0/1518	0.51	0/2050
1	Aq	0.37	0/1518	0.51	0/2050
1	Ar	0.37	0/1518	0.51	0/2050
1	As	0.37	0/1518	0.51	0/2050
1	At	0.37	0/1518	0.51	0/2050
1	Au	0.37	0/1518	0.51	0/2050
1	Av	0.37	0/1518	0.51	0/2050
1	Aw	0.37	0/1518	0.51	0/2050
1	Ax	0.37	0/1518	0.51	0/2050
All	All	0.37	0/36432	0.51	0/49200

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 ⓘ

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	Aa	1483	0	1470	12	0
1	Ab	1483	0	1470	14	0
1	Ac	1483	0	1470	14	0
1	Ad	1483	0	1470	13	0
1	Ae	1483	0	1470	13	0
1	Af	1483	0	1470	15	0
1	Ag	1483	0	1470	13	0
1	Ah	1483	0	1470	14	0
1	Ai	1483	0	1470	17	0
1	Aj	1483	0	1470	16	0
1	Ak	1483	0	1470	15	0
1	Al	1483	0	1470	15	0
1	Am	1483	0	1470	14	0
1	An	1483	0	1470	16	0
1	Ao	1483	0	1470	15	0
1	Ap	1483	0	1470	17	0
1	Aq	1483	0	1470	14	0
1	Ar	1483	0	1470	13	0
1	As	1483	0	1470	14	0
1	At	1483	0	1470	13	0
1	Au	1483	0	1470	13	0
1	Av	1483	0	1470	15	0
1	Aw	1483	0	1470	14	0
1	Ax	1483	0	1470	12	0
All	All	35592	0	35280	276	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 4.

The worst 5 of 276 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:Ag:181:PRO:HD3	1:Ao:102:SER:HA	1.85	0.58
1:Aa:181:PRO:HD3	1:Ai:102:SER:HA	1.85	0.58
1:Ad:181:PRO:HD3	1:Al:102:SER:HA	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:An:181:PRO:HD3	1:Av:102:SER:HA	1.86	0.58
1:Ae:181:PRO:HD3	1:Am:102:SER:HA	1.85	0.58

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	Aa	181/269 (67%)	173 (96%)	8 (4%)	0	100	100
1	Ab	181/269 (67%)	173 (96%)	8 (4%)	0	100	100
1	Ac	181/269 (67%)	173 (96%)	8 (4%)	0	100	100
1	Ad	181/269 (67%)	173 (96%)	8 (4%)	0	100	100
1	Ae	181/269 (67%)	173 (96%)	8 (4%)	0	100	100
1	Af	181/269 (67%)	173 (96%)	8 (4%)	0	100	100
1	Ag	181/269 (67%)	173 (96%)	8 (4%)	0	100	100
1	Ah	181/269 (67%)	173 (96%)	8 (4%)	0	100	100
1	Ai	181/269 (67%)	173 (96%)	8 (4%)	0	100	100
1	Aj	181/269 (67%)	173 (96%)	8 (4%)	0	100	100
1	Ak	181/269 (67%)	173 (96%)	8 (4%)	0	100	100
1	Al	181/269 (67%)	173 (96%)	8 (4%)	0	100	100
1	Am	181/269 (67%)	173 (96%)	8 (4%)	0	100	100
1	An	181/269 (67%)	173 (96%)	8 (4%)	0	100	100
1	Ao	181/269 (67%)	173 (96%)	8 (4%)	0	100	100
1	Ap	181/269 (67%)	173 (96%)	8 (4%)	0	100	100
1	Aq	181/269 (67%)	173 (96%)	8 (4%)	0	100	100
1	Ar	181/269 (67%)	173 (96%)	8 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	As	181/269 (67%)	173 (96%)	8 (4%)	0	100	100
1	At	181/269 (67%)	173 (96%)	8 (4%)	0	100	100
1	Au	181/269 (67%)	173 (96%)	8 (4%)	0	100	100
1	Av	181/269 (67%)	173 (96%)	8 (4%)	0	100	100
1	Aw	181/269 (67%)	173 (96%)	8 (4%)	0	100	100
1	Ax	181/269 (67%)	173 (96%)	8 (4%)	0	100	100
All	All	4344/6456 (67%)	4152 (96%)	192 (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	Aa	162/233 (70%)	162 (100%)	0	100	100
1	Ab	162/233 (70%)	162 (100%)	0	100	100
1	Ac	162/233 (70%)	162 (100%)	0	100	100
1	Ad	162/233 (70%)	162 (100%)	0	100	100
1	Ae	162/233 (70%)	162 (100%)	0	100	100
1	Af	162/233 (70%)	162 (100%)	0	100	100
1	Ag	162/233 (70%)	162 (100%)	0	100	100
1	Ah	162/233 (70%)	162 (100%)	0	100	100
1	Ai	162/233 (70%)	162 (100%)	0	100	100
1	Aj	162/233 (70%)	162 (100%)	0	100	100
1	Ak	162/233 (70%)	162 (100%)	0	100	100
1	Al	162/233 (70%)	162 (100%)	0	100	100
1	Am	162/233 (70%)	162 (100%)	0	100	100
1	An	162/233 (70%)	162 (100%)	0	100	100
1	Ao	162/233 (70%)	162 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	Ap	162/233 (70%)	162 (100%)	0	100	100
1	Aq	162/233 (70%)	162 (100%)	0	100	100
1	Ar	162/233 (70%)	162 (100%)	0	100	100
1	As	162/233 (70%)	162 (100%)	0	100	100
1	At	162/233 (70%)	162 (100%)	0	100	100
1	Au	162/233 (70%)	162 (100%)	0	100	100
1	Av	162/233 (70%)	162 (100%)	0	100	100
1	Aw	162/233 (70%)	162 (100%)	0	100	100
1	Ax	162/233 (70%)	162 (100%)	0	100	100
All	All	3888/5592 (70%)	3888 (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. 5 of 6 such sidechains are listed below:

Mol	Chain	Res	Type
1	Am	191	ASN
1	Ao	191	ASN
1	As	191	ASN
1	Ak	191	ASN
1	Af	191	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

5.5 Carbohydrates ⓘ

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.

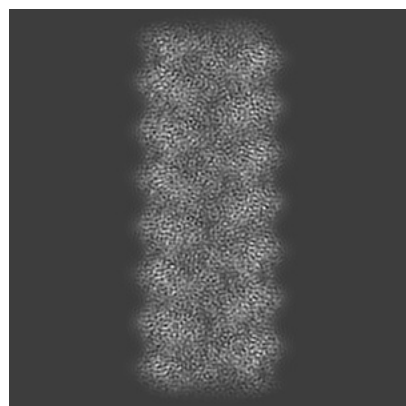
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-53796. These allow visual inspection of the internal detail of the map and identification of artifacts.

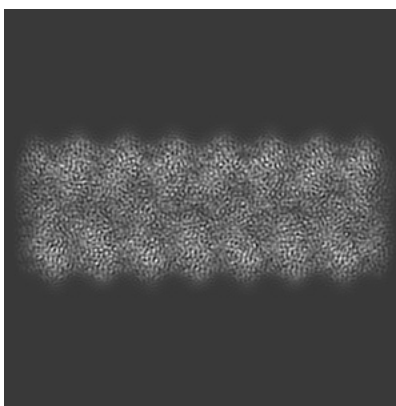
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

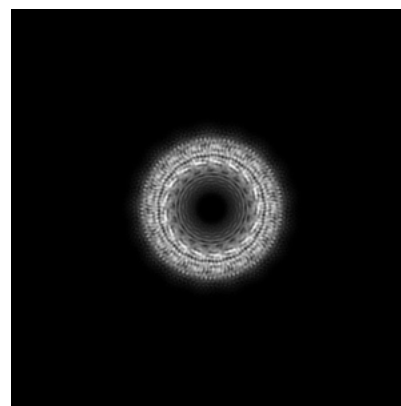
6.1.1 Primary map



X

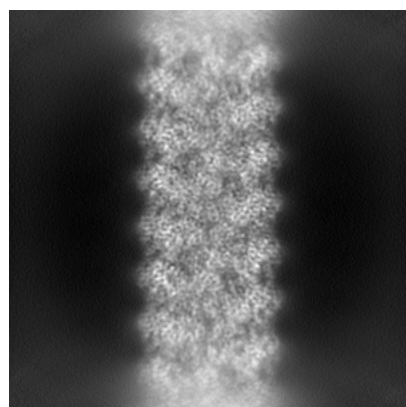


Y

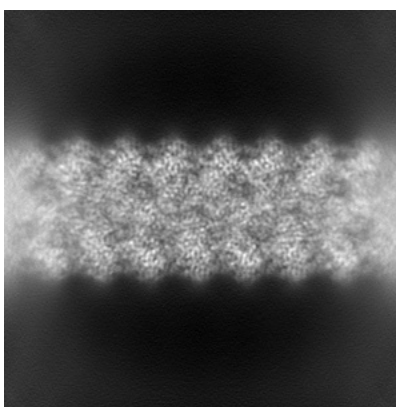


Z

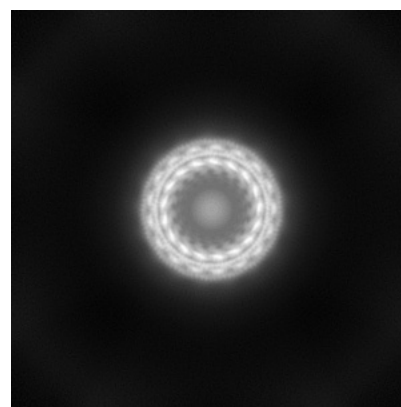
6.1.2 Raw map



X



Y

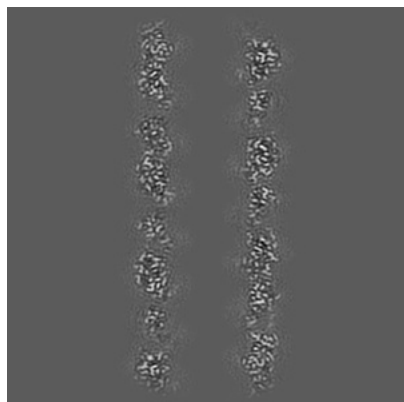


Z

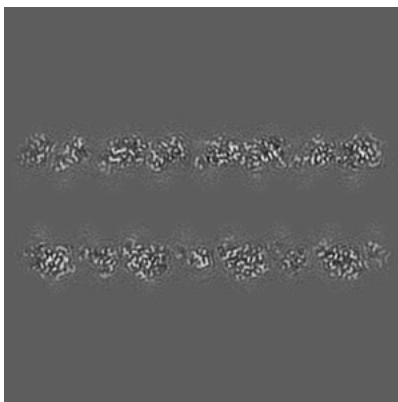
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

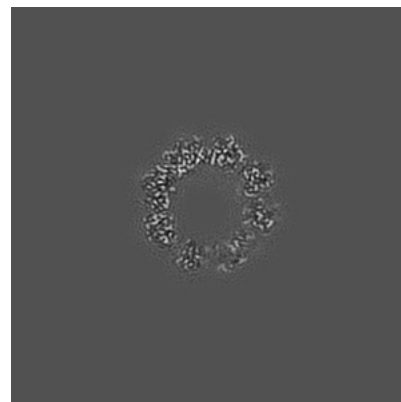
6.2.1 Primary map



X Index: 175

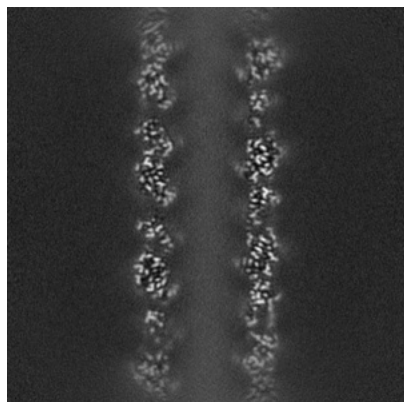


Y Index: 175

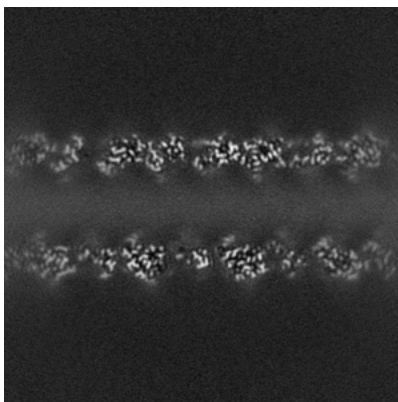


Z Index: 175

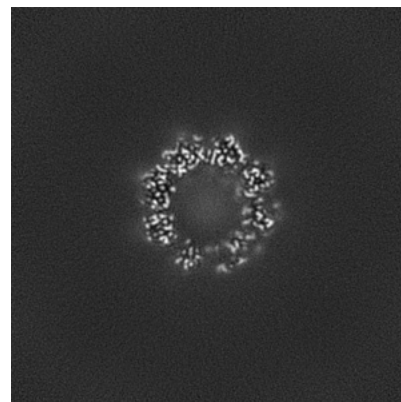
6.2.2 Raw map



X Index: 175



Y Index: 175

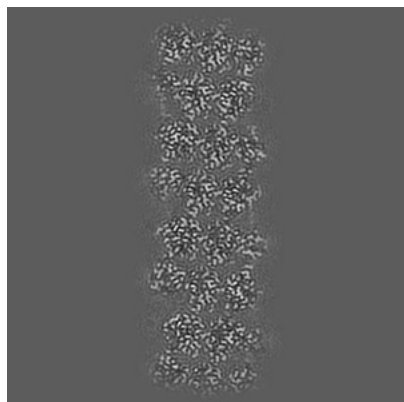


Z Index: 175

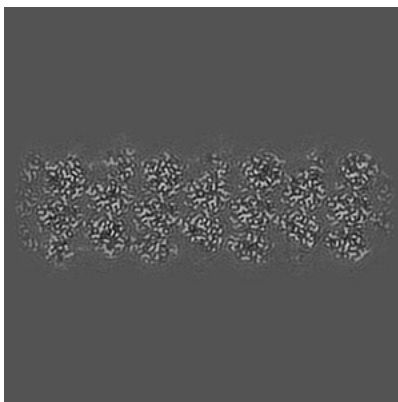
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

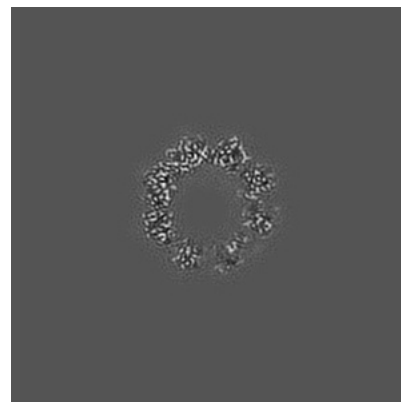
6.3.1 Primary map



X Index: 215

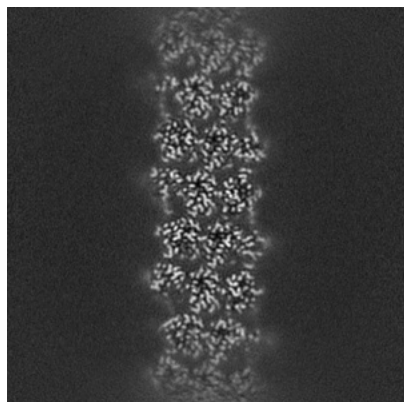


Y Index: 215

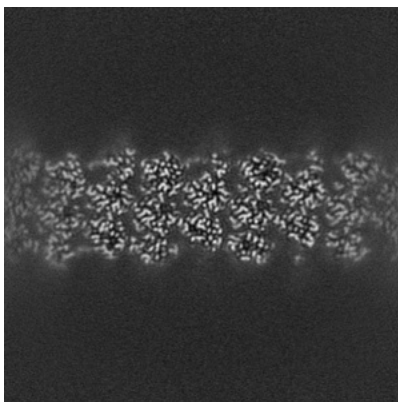


Z Index: 259

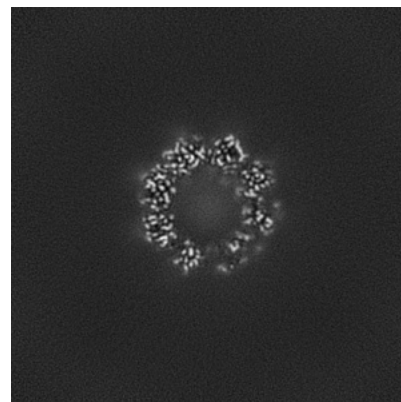
6.3.2 Raw map



X Index: 216



Y Index: 215

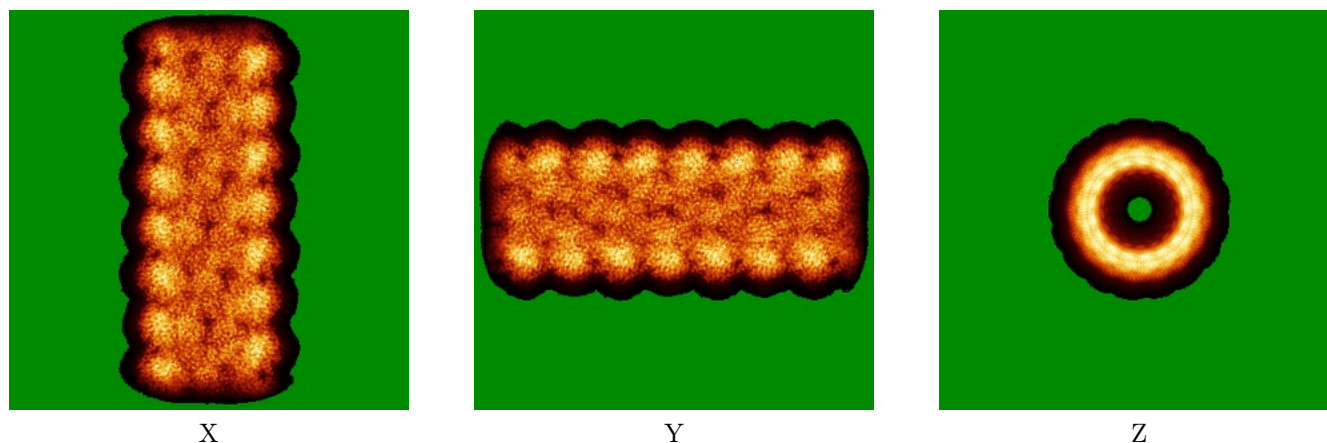


Z Index: 174

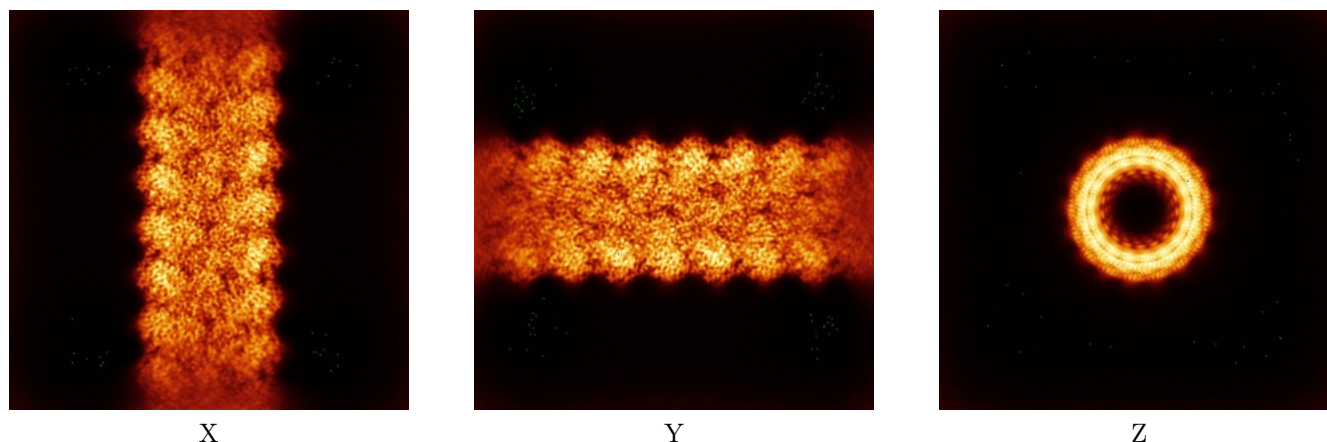
The images above show the largest variance slices of the map in three orthogonal directions.

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.

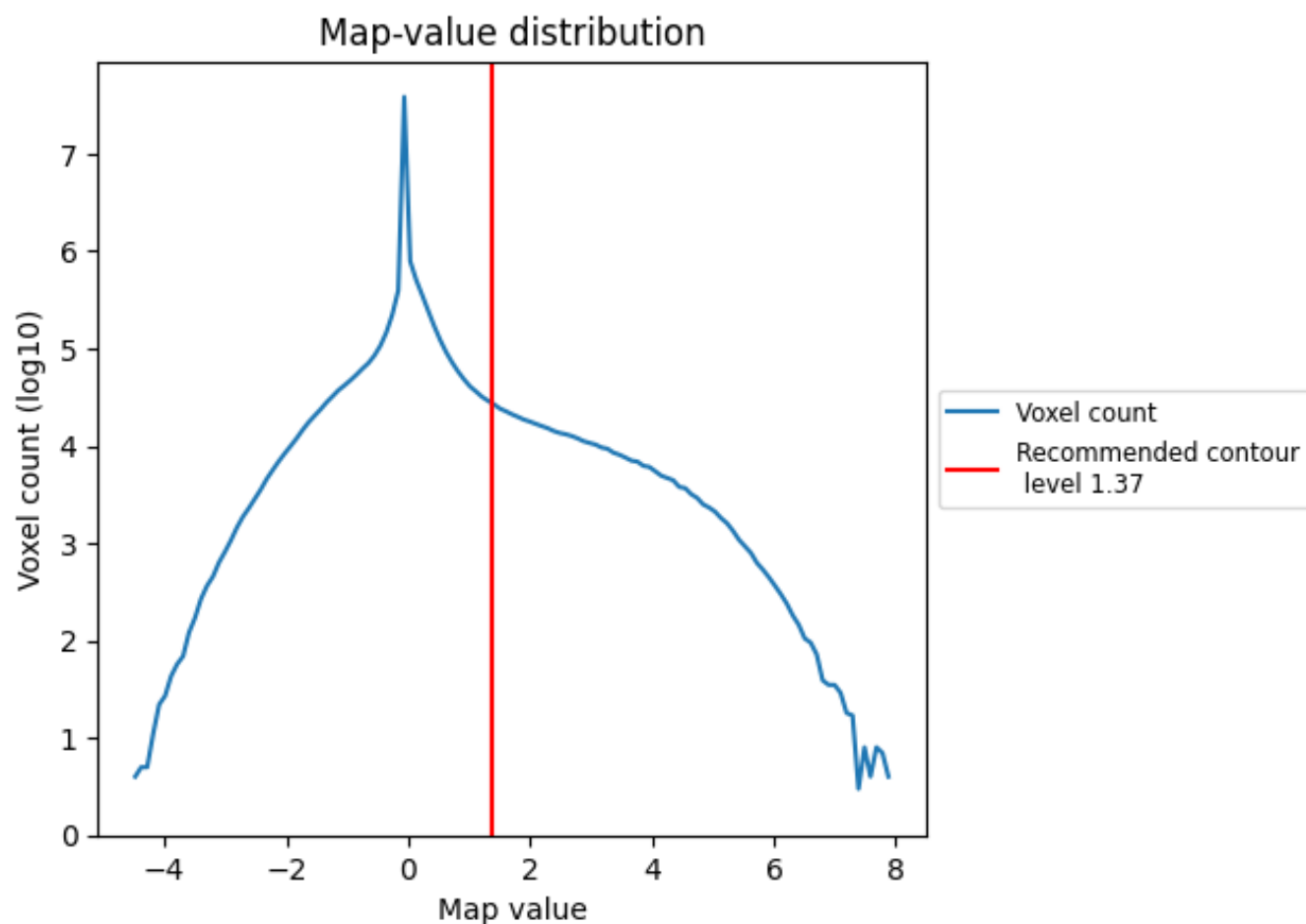
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

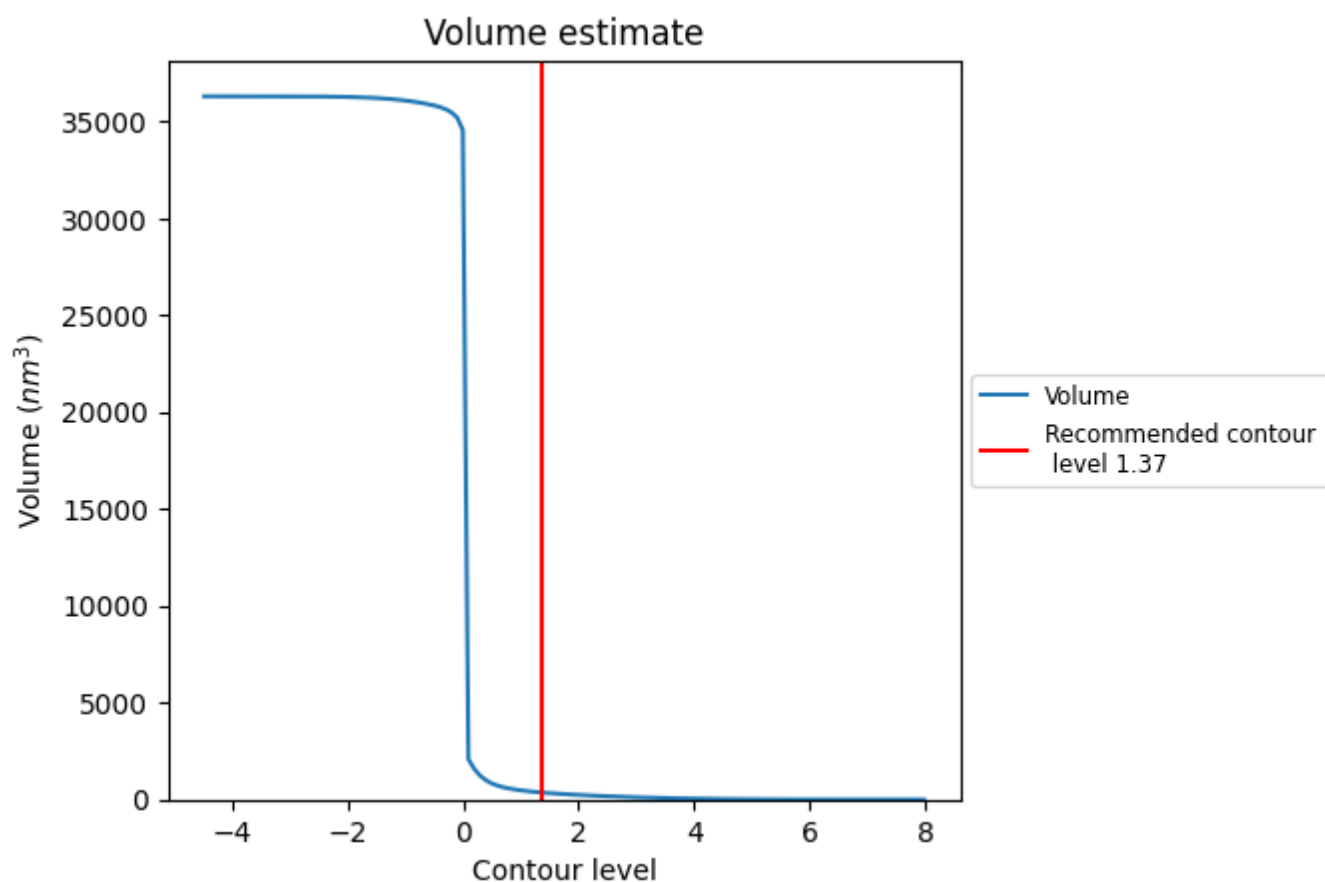
This section contains the results of statistical analysis of the map.

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.

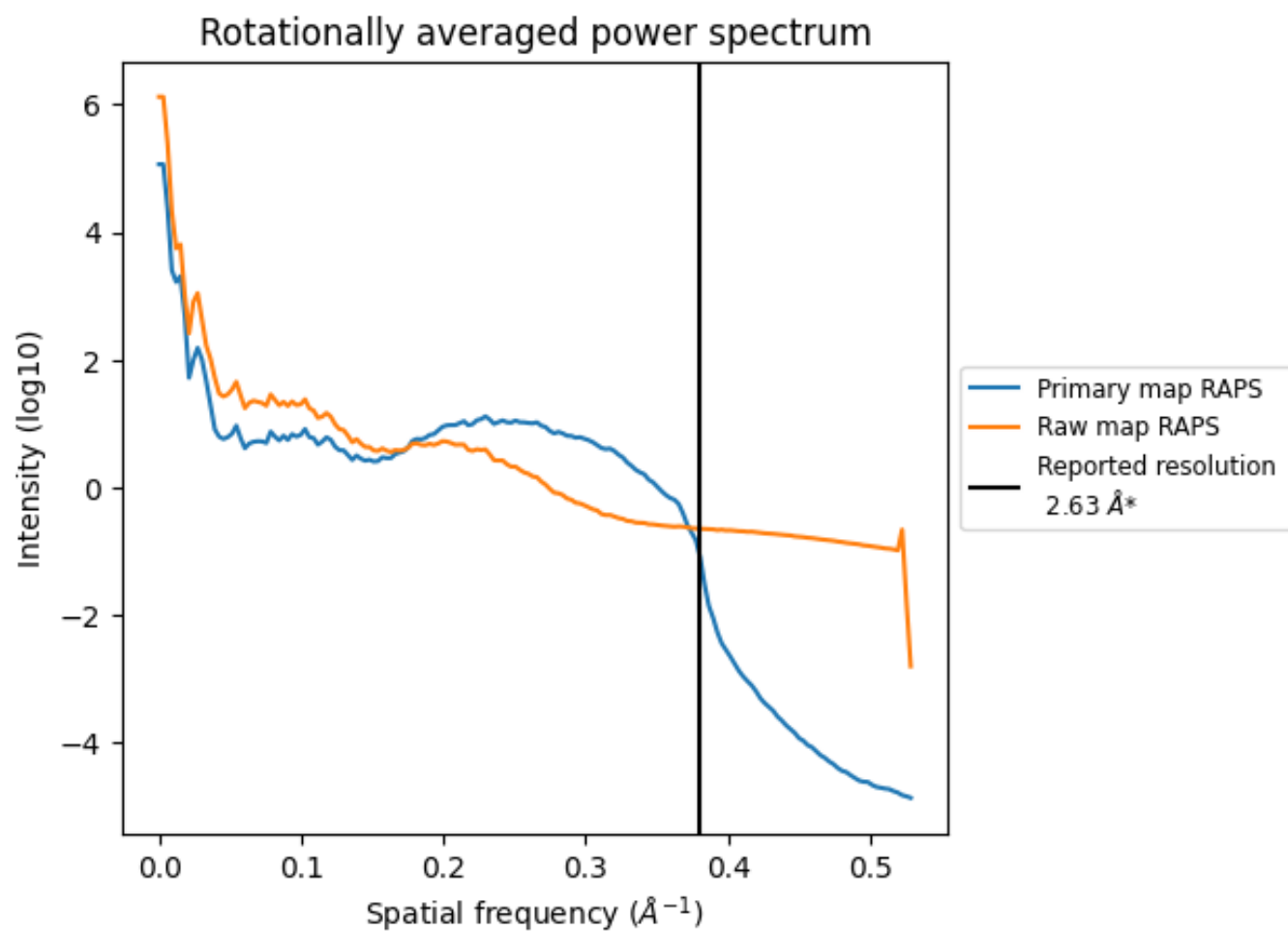
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 361 nm³; this corresponds to an approximate mass of 326 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 ⓘ

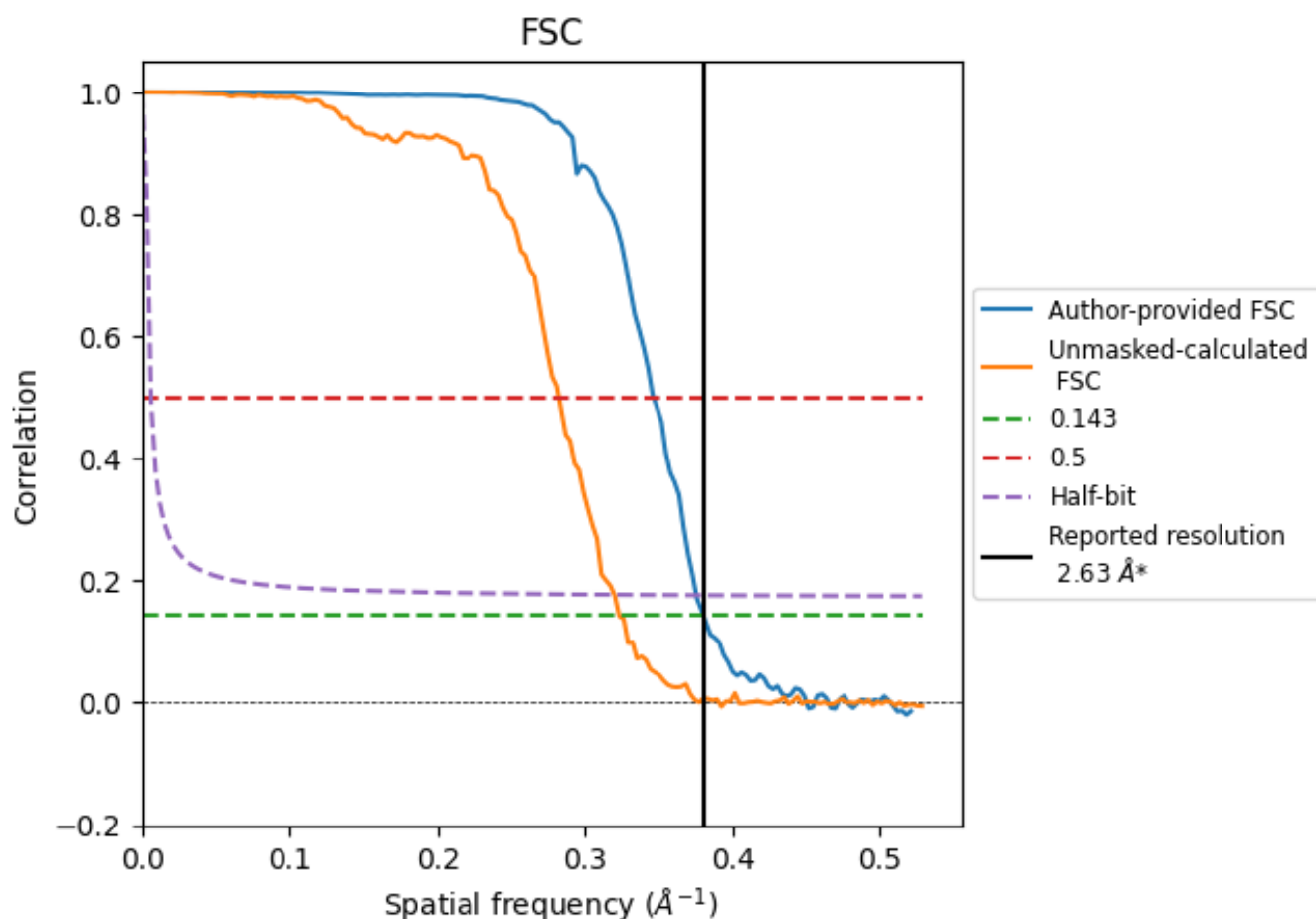


*Reported resolution corresponds to spatial frequency of 0.380 Å⁻¹

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 0.380 Å⁻¹

8.2 Resolution estimates [i](#)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.63	-	-
Author-provided FSC curve	2.63	2.89	2.66
Unmasked-calculated*	3.10	3.54	3.12

*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 3.10 differs from the reported value 2.63 by more than 10 %

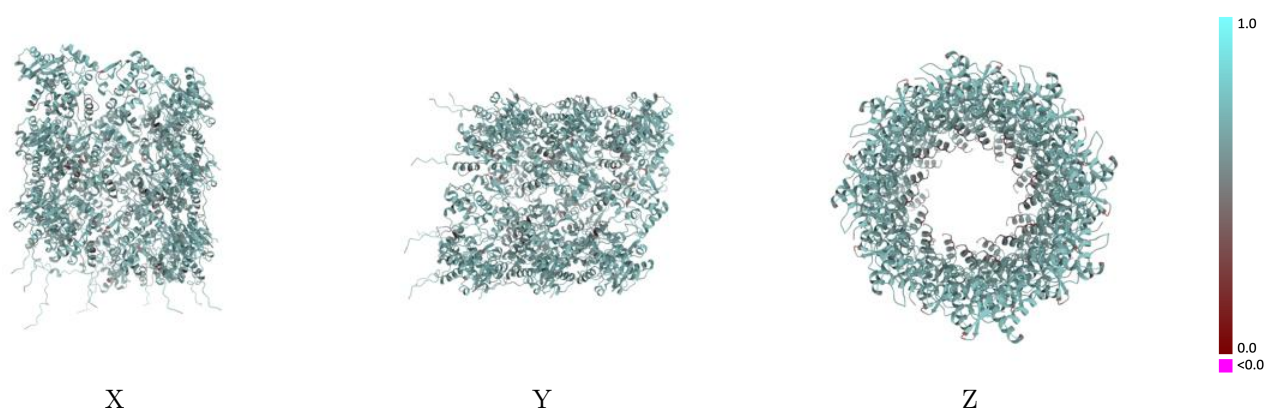
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-53796 and PDB model 9R7X. Per-residue inclusion information can be found in section 3 on page 6.

9.1 Map-model overlay [i](#)

This section was not generated.

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

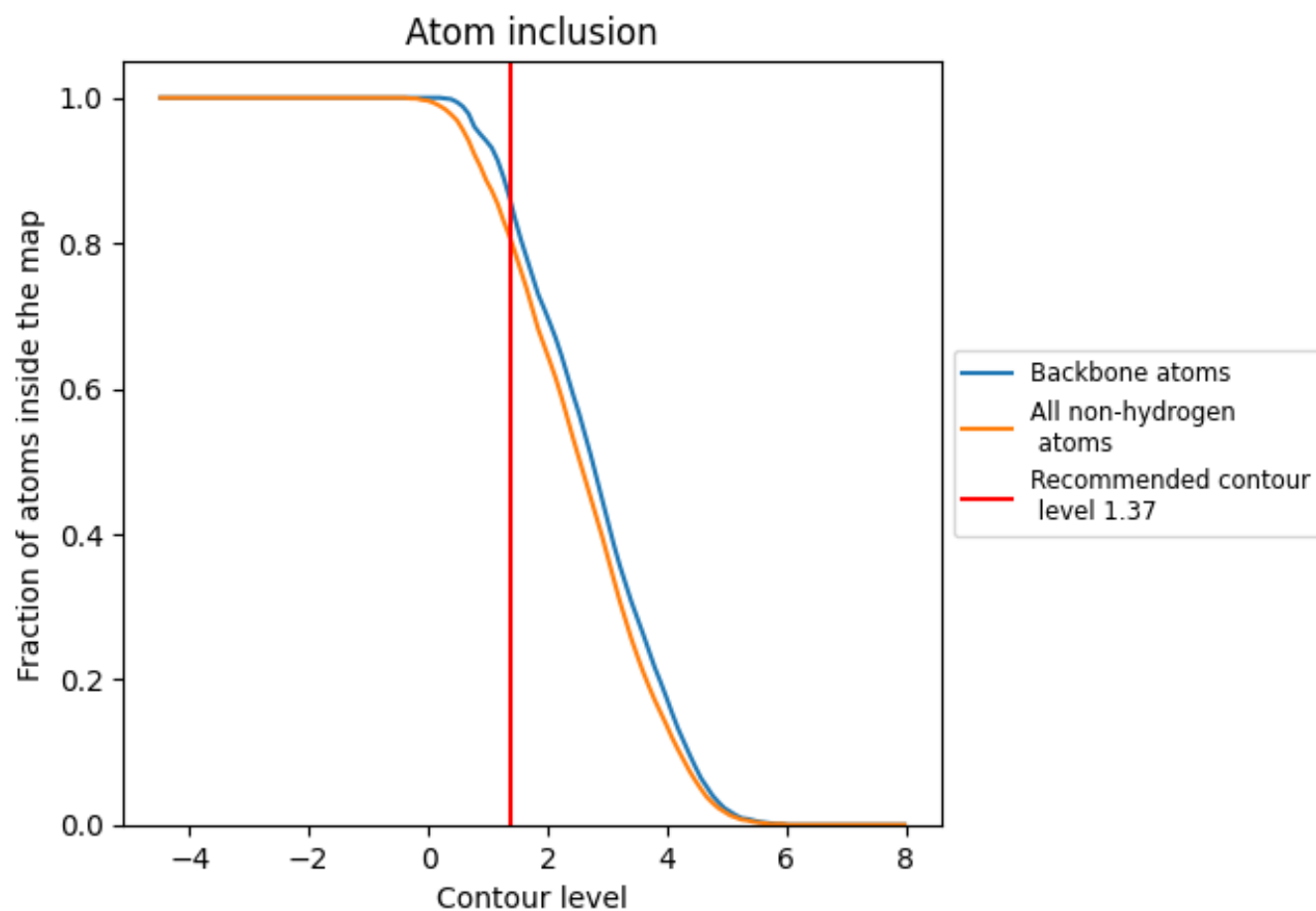


The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

This section was not generated.

9.4 Atom inclusion [i](#)



At the recommended contour level, 86% of all backbone atoms, 81% 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 (1.37) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.8080	 0.6340
Aa	 0.8050	 0.6350
Ab	 0.8050	 0.6340
Ac	 0.8060	 0.6350
Ad	 0.8070	 0.6350
Ae	 0.8120	 0.6350
Af	 0.8110	 0.6350
Ag	 0.8070	 0.6340
Ah	 0.8100	 0.6350
Ai	 0.8080	 0.6340
Aj	 0.8040	 0.6350
Ak	 0.8090	 0.6350
Al	 0.8130	 0.6360
Am	 0.8130	 0.6340
An	 0.8090	 0.6340
Ao	 0.8090	 0.6350
Ap	 0.8070	 0.6340
Aq	 0.8110	 0.6340
Ar	 0.8060	 0.6350
As	 0.8060	 0.6340
At	 0.8070	 0.6340
Au	 0.8070	 0.6340
Av	 0.8050	 0.6340
Aw	 0.8110	 0.6350
Ax	 0.8060	 0.6340

