



wwPDB EM Validation Summary Report ⓘ

May 31, 2025 – 01:40 PM EDT

PDB ID : 8TPW / pdb_00008tpw
EMDB ID : EMD-41495
Title : Crosslinked 6-deoxyerythronolide B synthase (DEBS) Module 3 in complex with antibody fragment 1B2: cis-oriented 1B2 and ACP
Authors : Cogan, D.P.; Soohoo, A.M.; Chen, M.; Brodsky, K.L.; Liu, Y.; Khosla, C.
Deposited on : 2023-08-05
Resolution : 3.46 Å(reported)
Based on initial model : 6C9U

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.dev118
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0rc1
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.43.1

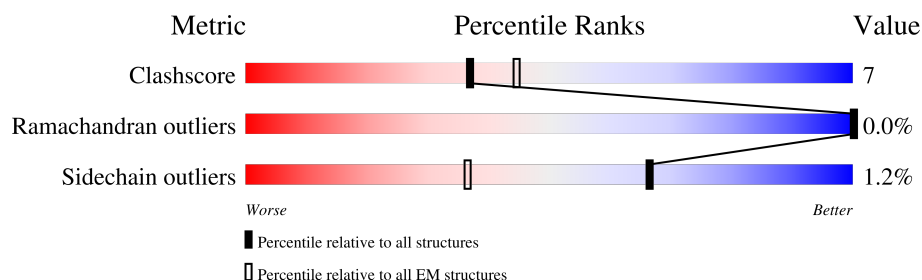
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.46 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

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	A	1766	
1	B	1766	
1	C	1766	
2	H	249	
3	L	236	

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 17254 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 EryAII,EryAII,EryAII,EryAII,6-deoxyerythronolide-B synthase EryA3, modules 5 and 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	903	Total	C	N	O	S	6	0
			6788	4202	1253	1315	18		
1	B	900	Total	C	N	O	S	6	0
			6765	4189	1250	1309	17		
1	C	73	Total	C	N	O	P	S	0
			566	350	102	111	1	2	0

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	0	MET	-	expression tag	UNP Q5UNP5
A	1	ALA	-	expression tag	UNP Q5UNP5
A	2	SER	-	expression tag	UNP Q5UNP5
A	481	THR	SER	conflict	UNP Q5UNP5
B	0	MET	-	expression tag	UNP Q5UNP5
B	1	ALA	-	expression tag	UNP Q5UNP5
B	2	SER	-	expression tag	UNP Q5UNP5
B	481	THR	SER	conflict	UNP Q5UNP5
C	18	MET	-	expression tag	UNP Q5UNP5
C	19	ALA	-	expression tag	UNP Q5UNP5
C	20	SER	-	expression tag	UNP Q5UNP5
C	499	THR	SER	conflict	UNP Q5UNP5

- Molecule 2 is a protein called Antibody Fragment 1B2, Heavy Chain.

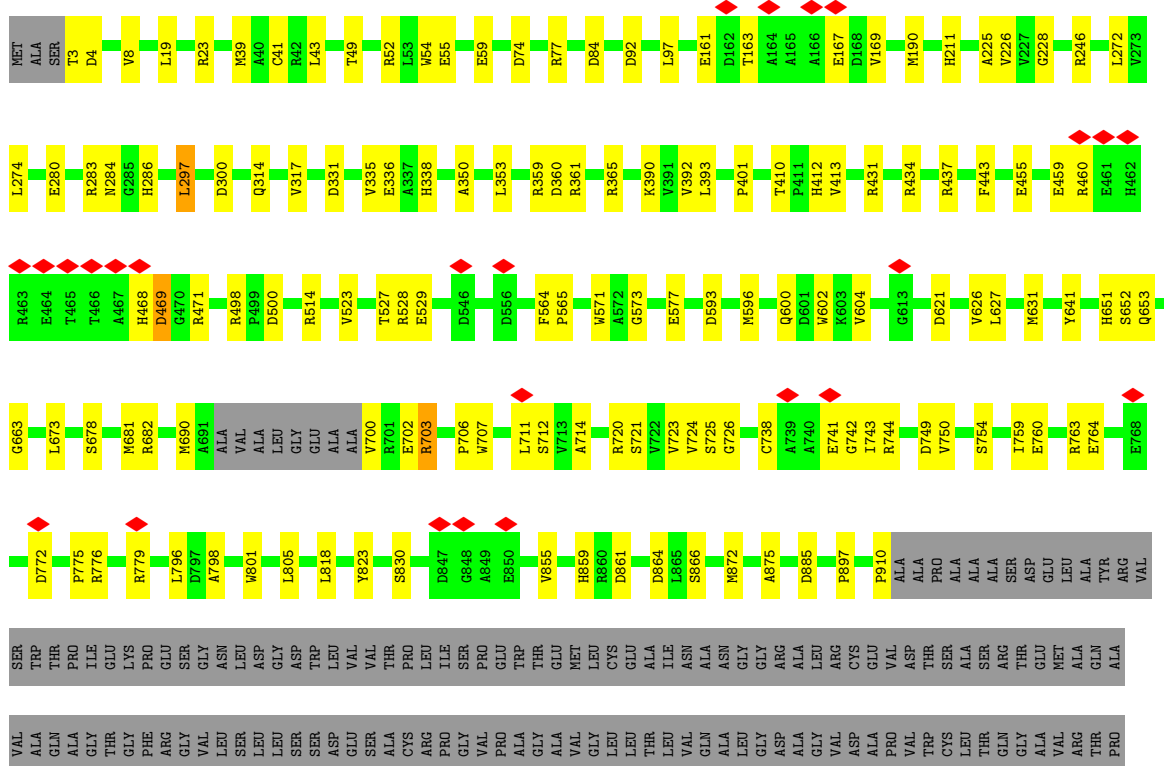
Mol	Chain	Residues	Atoms					AltConf	Trace
2	H	205	Total	C	N	O	S	0	0
			1539	978	257	298	6		

- Molecule 3 is a protein called Antibody Fragment 1B2, Light Chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	L	209	Total	C	N	O	S	0	0
			1596	1001	269	320	6		

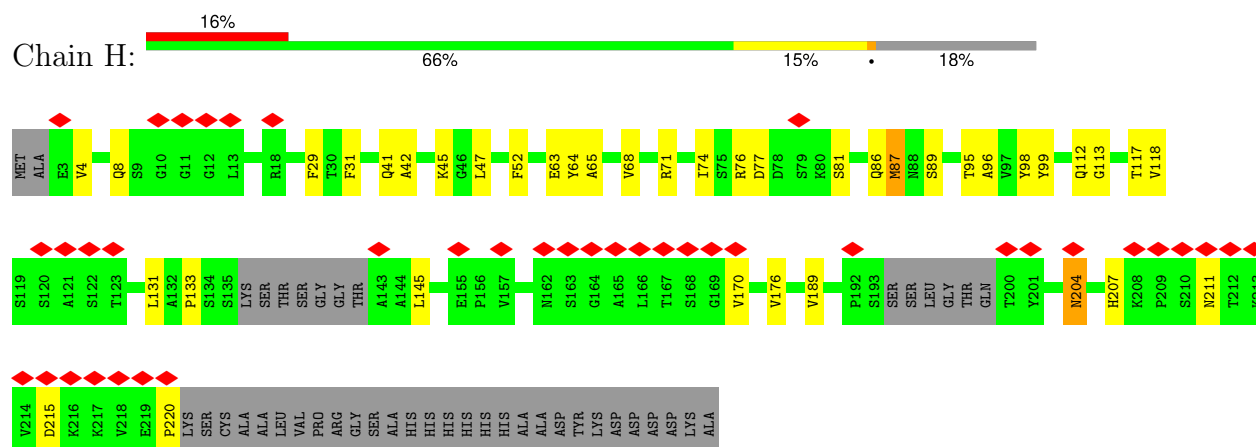
HIS HIS HIS	PRO	ALA	ALA	LEU	LEU	LEU	ALA	ASP	ARG
	ASP	MET	VAL	VAL	ASP	ASP	ASN	TRP	ALA
	SER	ASN	ALA	ASP	GLN	ALA	ALA	TRP	ALA
	TRP	TRP	VAL	MET	GLN	HIS	VAL	VAL	GLY
	LYS	LEU	GLN	ASP	SER	SER	GLU	SER	CYS
	PRO	GLU	ALA	GLY	GLN	LEU	VAL	GLU	THR
	THR	GLU	ASP	PRO	GLY	LEU	LEU	GLY	THR
	TRP	THR	ALA	GLY	GLY	ASP	GLY	PHE	SER
	PRO	THR	VAL	VAL	CYS	GLU	HIS	ALA	VAL
	PHE	ALA	ILE	VAL	VAL	GLY	GLU	ALA	ALA
	GLU	THR	ARG	THR	THR	THR	SER	THR	TRP
	HIS	LEU	THR	VAL	PRO	PRO	ALA	ARG	THR
	ASP	PHE	GLN	ILE	GLN	ALA	ALA	PRO	THR
	THR	ASP	GLY	CYS	ARG	ALA	GLU	THR	TRP
	VAL	ARG	ASP	CYS	ALA	ILE	ILE	ALA	ALA
	ALA	GLU	LYS	ALA	VAL	ARG	ASN	LEU	LEU
	VAL	THR	PRO	GLY	THR	SER	VAL	PHE	PRO
	PRO	VAL	PHE	THR	SER	SER	ARG	ALA	GLY
	GLY	ARG	VAL	ALA	ALA	LEU	ARG	GLU	GLY
	ASP	MET	VAL	ILE	VAL	ALA	ALA	LEU	GLY
	HIS	ASP	ALA	ILE	ARG	ARG	PHE	ALA	VAL
	PHE	ASP	GLY	SER	ASP	ASP	SER	GLY	ASP
	THR	THR	HIS	GLY	GLY	THR	GLU	ARG	GLY
	MET	ARG	SER	PRO	PRO	LEU	LEU	GLY	ASP
	VAL	LEU	ALA	HIS	GLY	ARG	GLY	GLY	TYR
	GLN	THR	GLY	GLY	GLN	GLN	LEU	GLN	LEU
	GLU	ALA	ALA	PHE	ALA	ALA	LEU	ALA	ARG
	HIS	LEU	LEU	THR	GLY	GLY	4HH	GLU	GLU
	ALA	GLY	MET	ARG	VAL	LEU	LEU	ALA	ARG
	ASP	ALA	ALA	LEU	SER	ASN	ASN	GLU	GLY
	ALA	TYR	TYR	ALA	GLY	ALA	ALA	PRO	LEU
	ILE	ASP	ALA	GLY	ARG	MET	ASP	ASP	ASP
	ALA	ASP	LEU	ALA	VAL	ALA	SER	SER	SER
	ARG	LEU	ALA	LEU	ARG	LEU	GLY	LEU	LEU
	HIS	THR	THR	ARG	SER	ARG	PRO	SER	SER
	ILE	GLY	GLU	GLY	TYR	LYS	THR	ALA	ALA
	ASP	GLN	LEU	ILE	LEU	ARG	GLY	THR	THR
	ALA	TRP	LEU	LEU	ASP	LEU	GLU	ARG	TRP
	TRP	ARG	ASP	PRO	LEU	SER	PRO	ALA	ARG
	LEU	PRO	ARG	VAL	LEU	ALA	ALA	MET	MET
	GLY	ARG	GLY	ARG	ALA	SER	GLN	ALA	ARG
	GLY	GLU	HIS	ALA	GLY	THR	ARG	THR	THR
	GLY	THR	PRO	VAL	LEU	GLY	LEU	LEU	TRP
	ASN	GLY	PRO	PRO	SER	LEU	ALA	GLY	GLY
	SER	LEU	ARG	GLN	ASP	PHE	ARG	GLY	ARG
	SER	PRO	GLY	PRO	PHE	LEU	LEU	SER	VAL
	VAL	LEU	VAL	TYR	GLY	PRO	PRO	SER	LEU
	ASP	LEU	LEU	VAL	GLU	ALA	ALA	PRO	ALA
	LYS	VAL	ILE	GLU	PHE	SER	GLY	GLY	GLY
	LEU	SER	ASP	GLY	GLY	ASP	VAL	GLN	PRO
	ALA	ALA	VAL	TYR	SER	GLY	PHE	GLN	VAL
	ALA	GLY	THR	PRO	GLY	ASP	ASP	GLU	SER
	LEU	GLU	PRO	LEU	SER	HIS	HIS	ASN	VAL
	ALA	GLU	PRO	LEU	GLY	THR	VAL	LEU	VAL
	LEU	MET	PRO	SER	PHE	THR	GLY	LEU	ALA
	HIS	PRO	GLN	MET	ASP	LEU	THR	GLU	ALA
	HIS	THR	ASP	THR	LEU	ASP	ALA	LEU	ASP

- Molecule 1: EryAII,EryAII,EryAII,EryAII,6-deoxyerythronolide-B synthase EryA3, modules 5 and 6

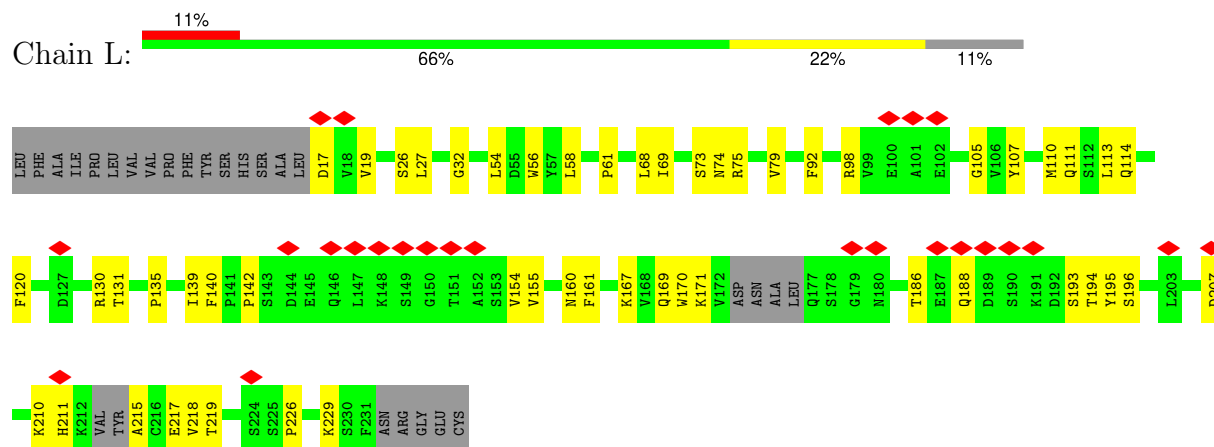




- Molecule 2: Antibody Fragment 1B2, Heavy Chain



- Molecule 3: Antibody Fragment 1B2, Light Chain



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	59205	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)	1000	Depositor
Maximum defocus (nm)	2500	Depositor
Magnification	81000	Depositor
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	2.366	Depositor
Minimum map value	-0.629	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.043	Depositor
Recommended contour level	0.745	Depositor
Map size (Å)	563.136, 563.136, 563.136	wwPDB
Map dimensions	448, 448, 448	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.257, 1.257, 1.257	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: 4HH

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	0.12	0/6915	0.28	0/9401
1	B	0.12	0/6893	0.27	0/9374
1	C	0.10	0/544	0.27	0/737
2	H	0.10	0/1575	0.25	0/2141
3	L	0.09	0/1630	0.24	0/2212
All	All	0.12	0/17557	0.27	0/23865

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	A	6788	0	6637	90	0
1	B	6765	0	6612	89	0
1	C	566	0	575	19	0
2	H	1539	0	1511	25	0
3	L	1596	0	1561	33	0
All	All	17254	0	16896	250	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 7.

The worst 5 of 250 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)
3:L:215:ALA:HA	3:L:229:LYS:O	1.73	0.88
1:B:690:MET:HE1	1:B:754:SER:H	1.48	0.79
1:B:712:SER:HA	1:B:724:VAL:HG23	1.68	0.75
1:A:98:ASP:OD2	1:A:99:ASP:N	2.19	0.75
1:B:738:CYS:HA	1:B:741:GLU:HB2	1.68	0.74

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	903/1766 (51%)	859 (95%)	44 (5%)	0	100	100
1	B	902/1766 (51%)	857 (95%)	44 (5%)	1 (0%)	48	79
1	C	70/1766 (4%)	66 (94%)	4 (6%)	0	100	100
2	H	199/249 (80%)	196 (98%)	3 (2%)	0	100	100
3	L	203/236 (86%)	200 (98%)	3 (2%)	0	100	100
All	All	2277/5783 (39%)	2178 (96%)	98 (4%)	1 (0%)	100	100

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	469	ASP

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	687/1319 (52%)	676 (98%)	11 (2%)	58	76
1	B	685/1319 (52%)	678 (99%)	7 (1%)	73	84
1	C	57/1319 (4%)	55 (96%)	2 (4%)	31	61
2	H	170/203 (84%)	166 (98%)	4 (2%)	44	70
3	L	185/208 (89%)	183 (99%)	2 (1%)	70	83
All	All	1784/4368 (41%)	1758 (98%)	26 (2%)	66	78

5 of 26 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	297	LEU
1	B	703	ARG
1	C	1416	LEU
1	B	627	LEU
2	H	86	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 16 such sidechains are listed below:

Mol	Chain	Res	Type
3	L	221	GLN
3	L	180	ASN
1	B	375	ASN
1	B	804	ASN
1	B	314	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

1 non-standard protein/DNA/RNA residue is modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
1	4HH	C	1449	1	22,26,27	1.23	1 (4%)	27,35,37	0.94	2 (7%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	4HH	C	1449	1	-	20/33/35/37	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	1449	4HH	CL3-NN	2.35	1.39	1.33

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	1449	4HH	O1P-P-O2P	2.19	122.65	112.44
1	C	1449	4HH	OG-CB-CA	2.15	110.24	108.14

There are no chirality outliers.

5 of 20 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	C	1449	4HH	CB-OG-P-O1P
1	C	1449	4HH	CB-OG-P-O2P
1	C	1449	4HH	CB-OG-P-O3P
1	C	1449	4HH	CJ-CK-CM-CL3
1	C	1449	4HH	CJ-CK-CM-OM

There are no ring outliers.

1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	C	1449	4HH	2	0

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.

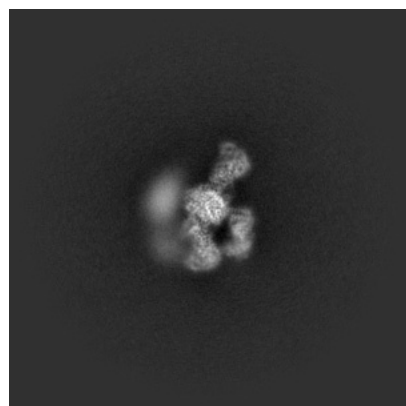
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-41495. These allow visual inspection of the internal detail of the map and identification of artifacts.

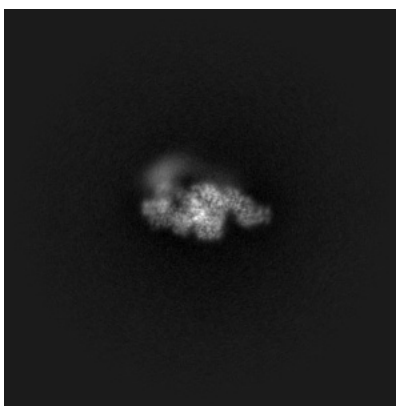
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

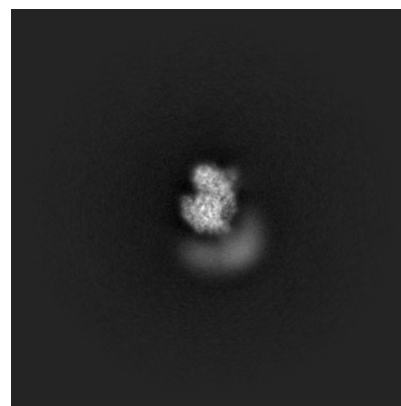
6.1.1 Primary map



X

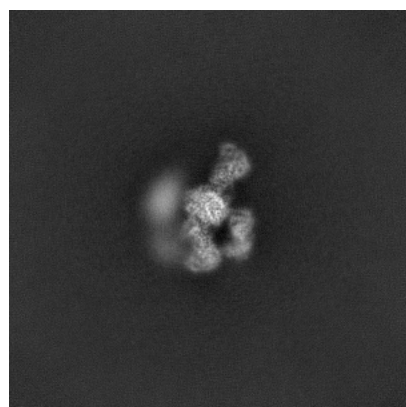


Y

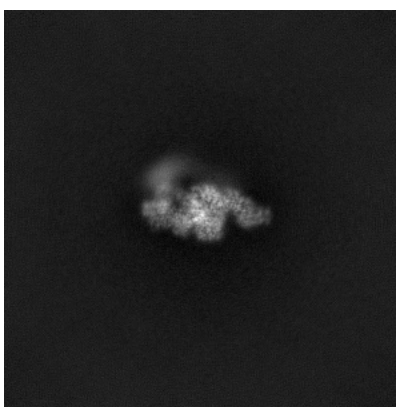


Z

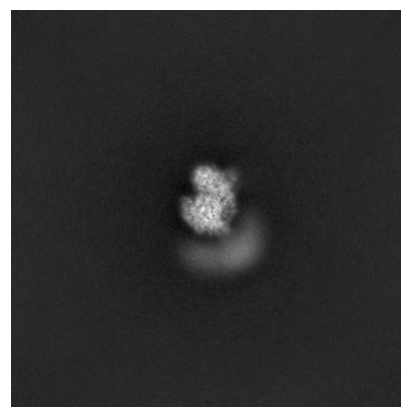
6.1.2 Raw map



X



Y

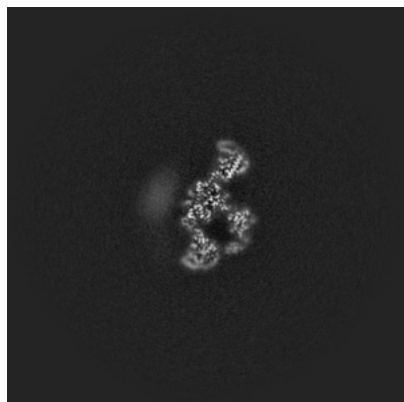


Z

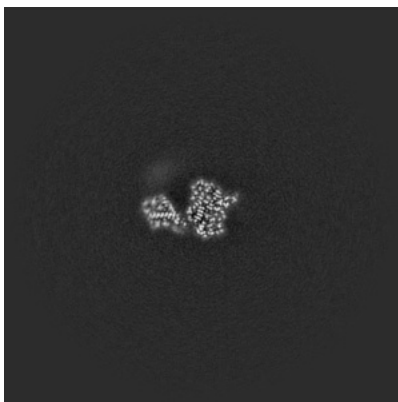
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

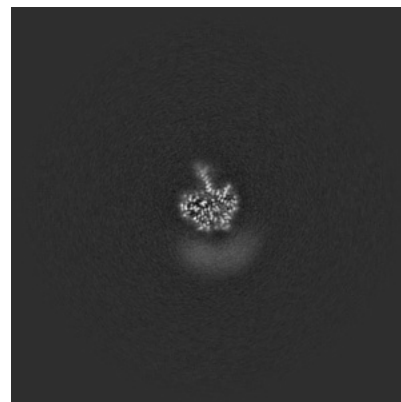
6.2.1 Primary map



X Index: 224

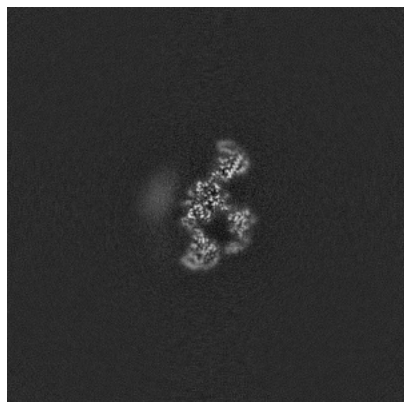


Y Index: 224

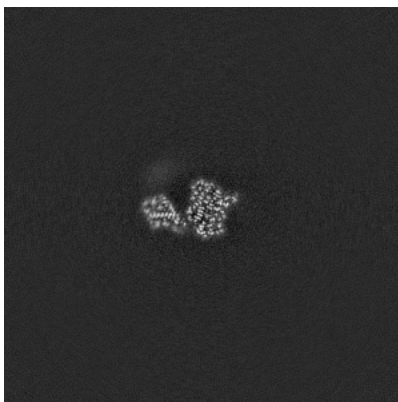


Z Index: 224

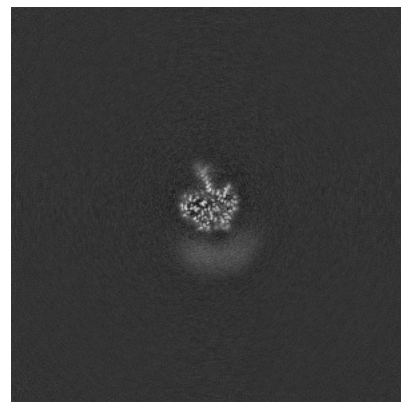
6.2.2 Raw map



X Index: 224



Y Index: 224

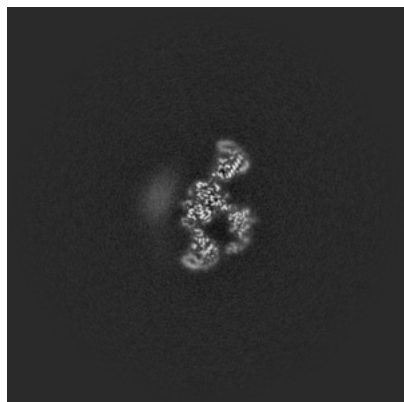


Z Index: 224

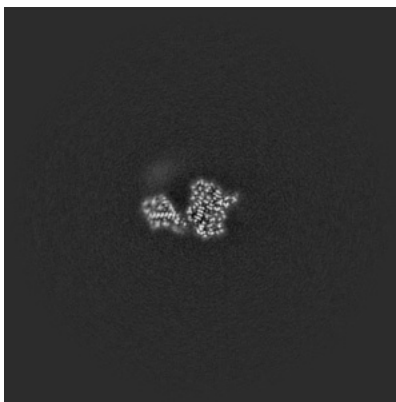
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

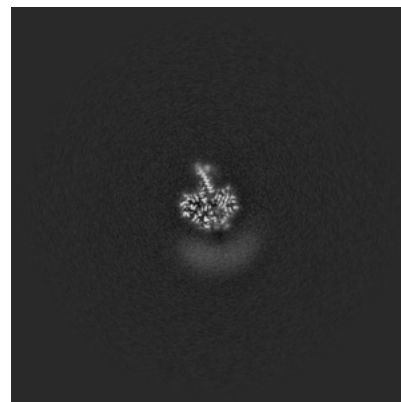
6.3.1 Primary map



X Index: 223

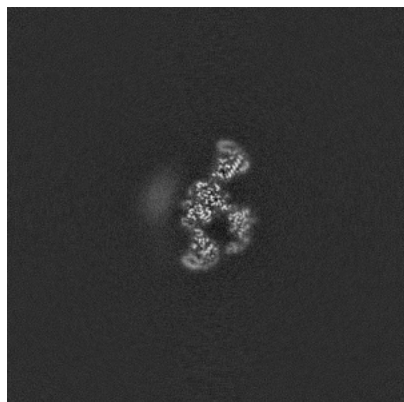


Y Index: 224

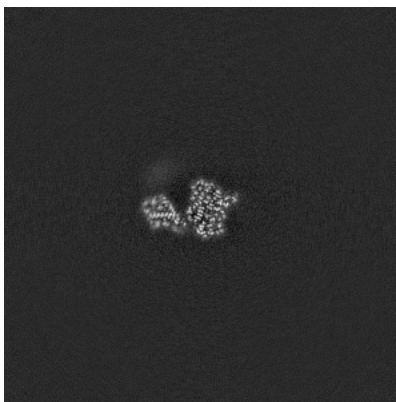


Z Index: 222

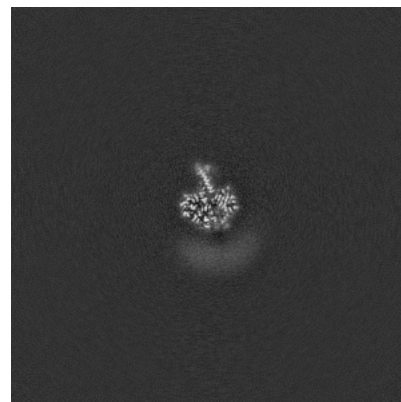
6.3.2 Raw map



X Index: 223



Y Index: 224

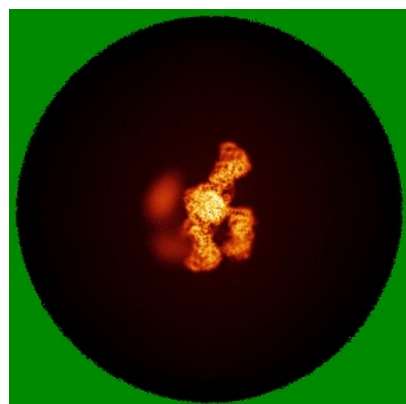


Z Index: 222

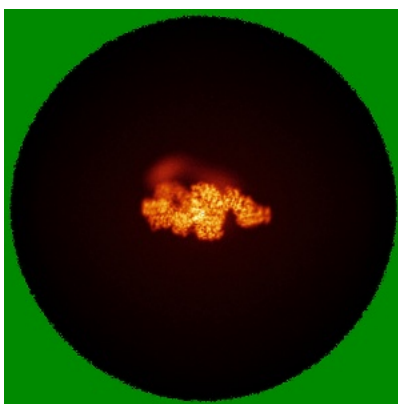
The images above show the largest variance slices of the map in three orthogonal directions.

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

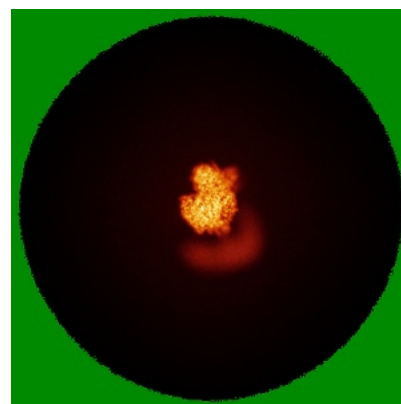
6.4.1 Primary map



X

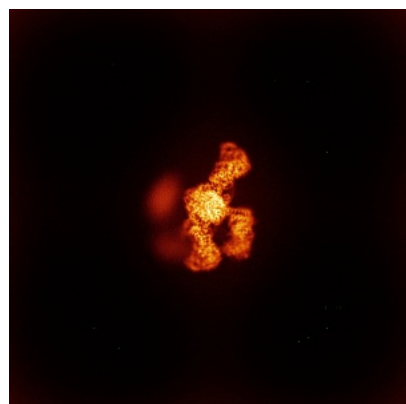


Y

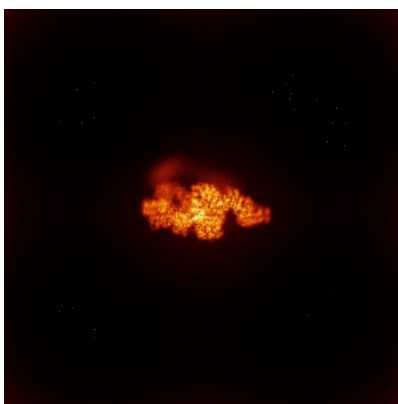


Z

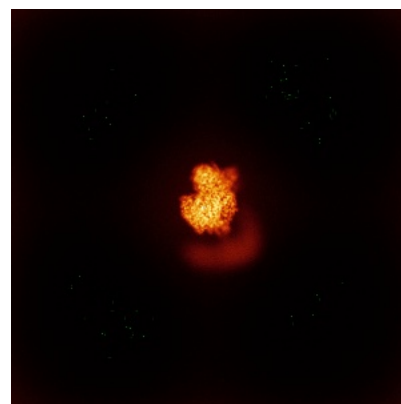
6.4.2 Raw map



X



Y

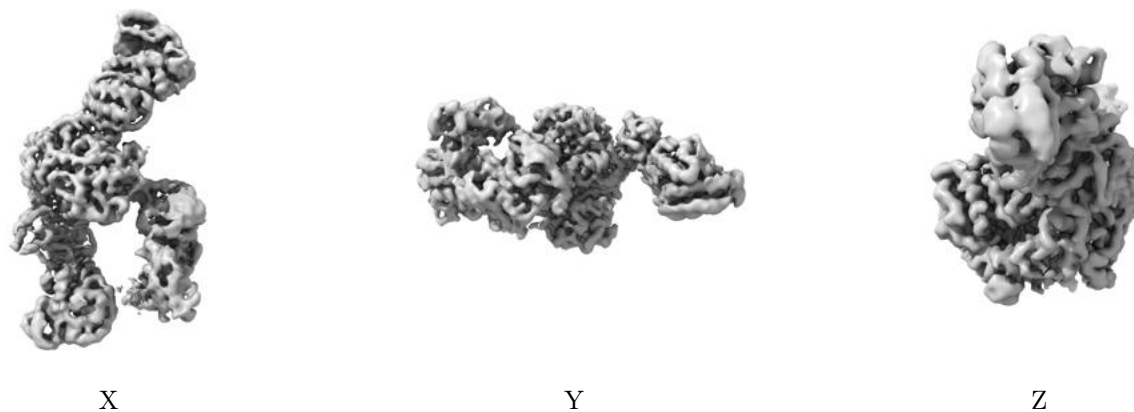


Z

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.

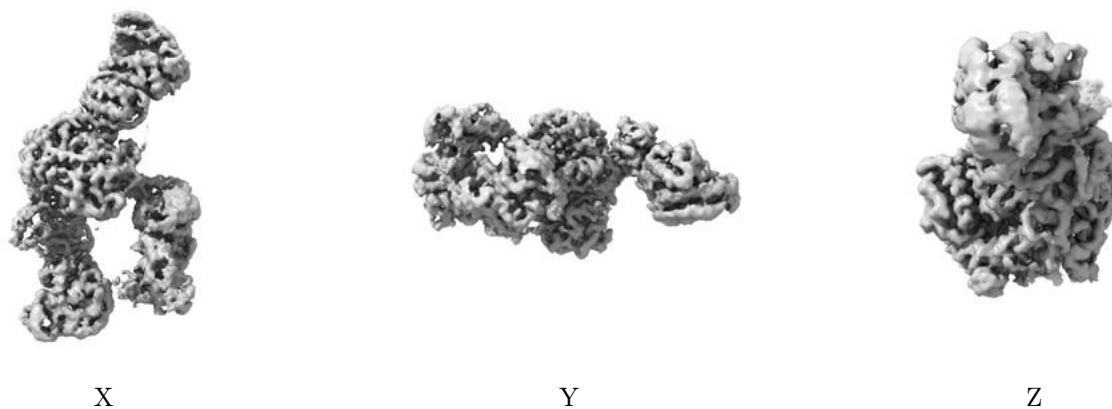
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.745. 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.

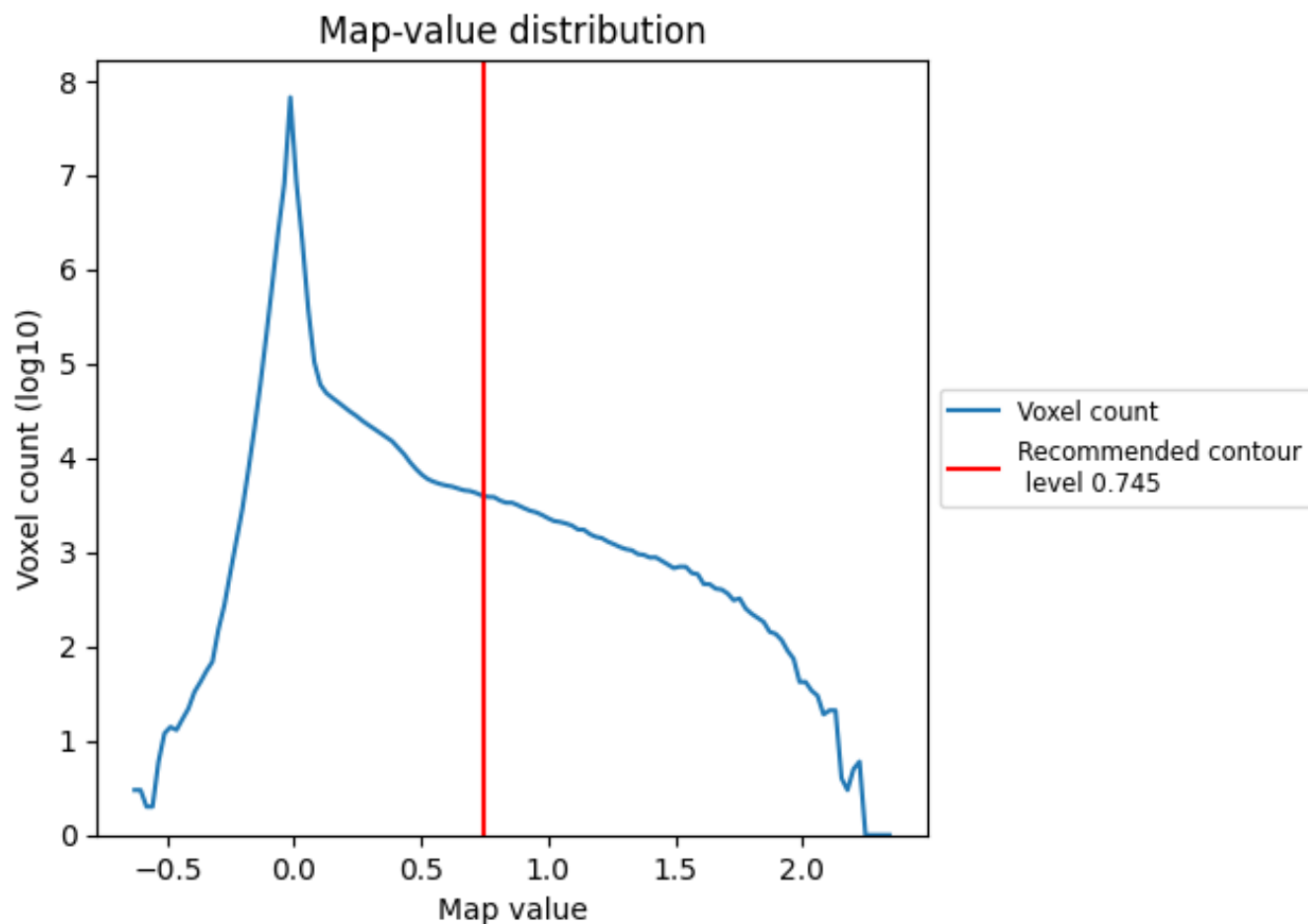
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

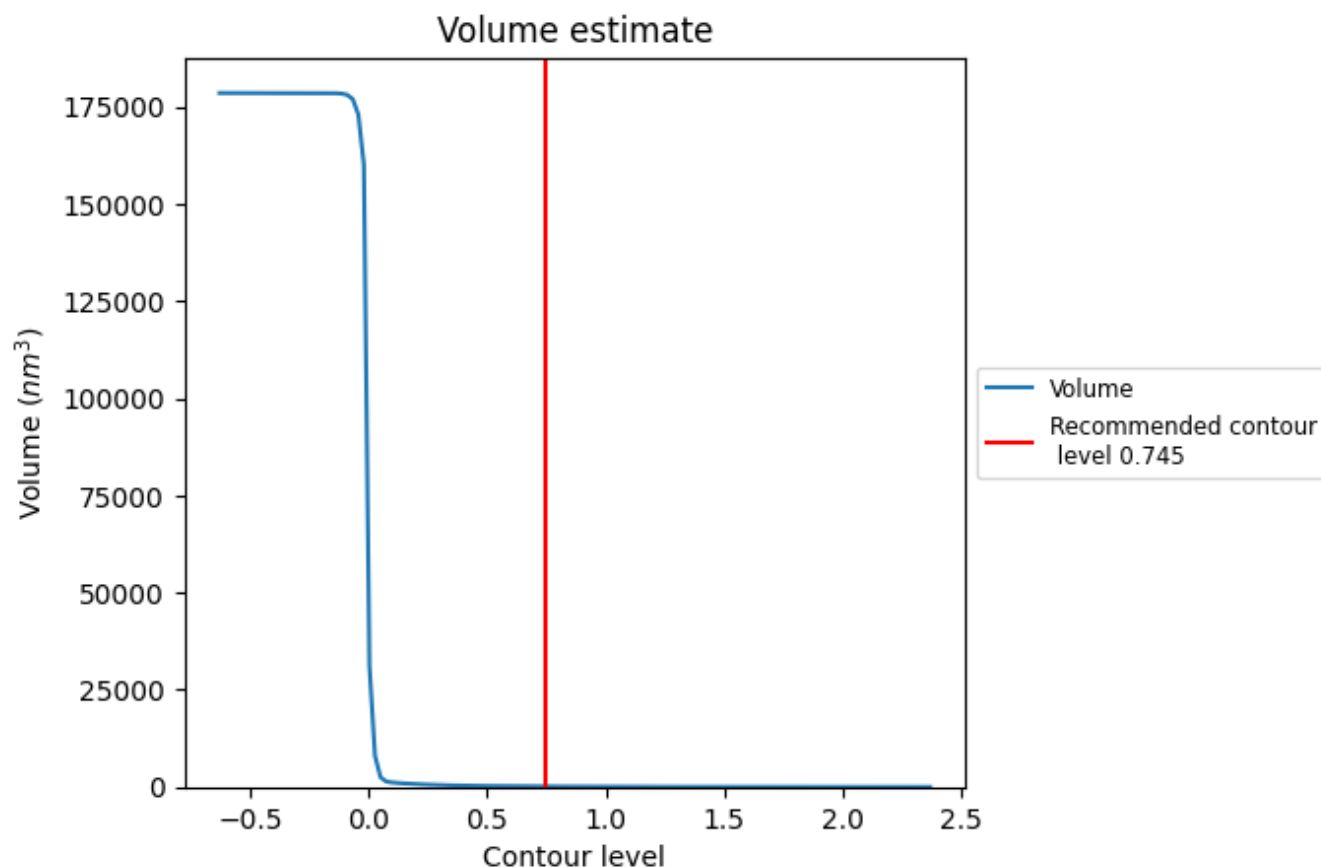
This section contains the results of statistical analysis of the map.

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.

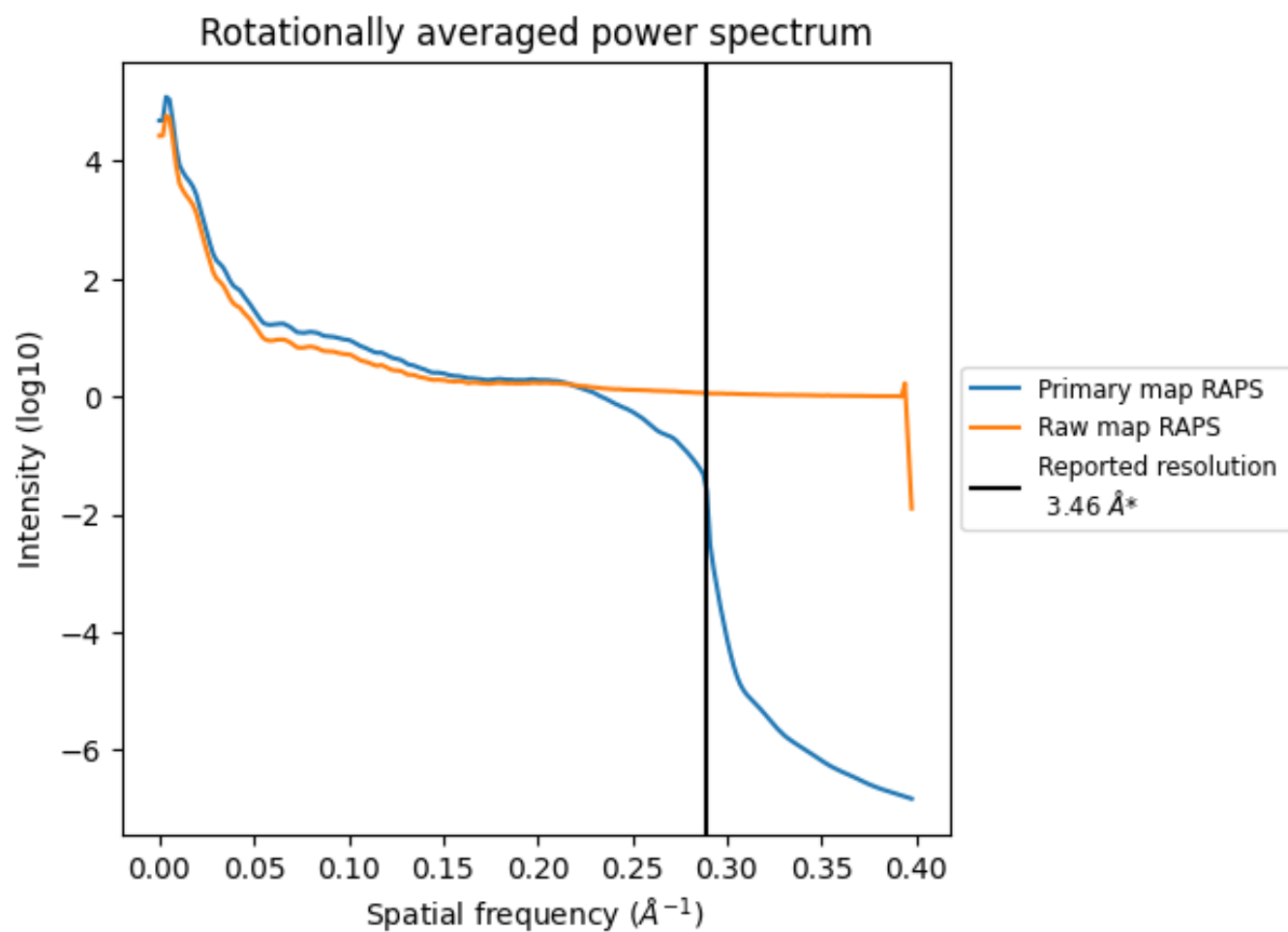
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 143 nm^3 ; this corresponds to an approximate mass of 129 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 ⓘ

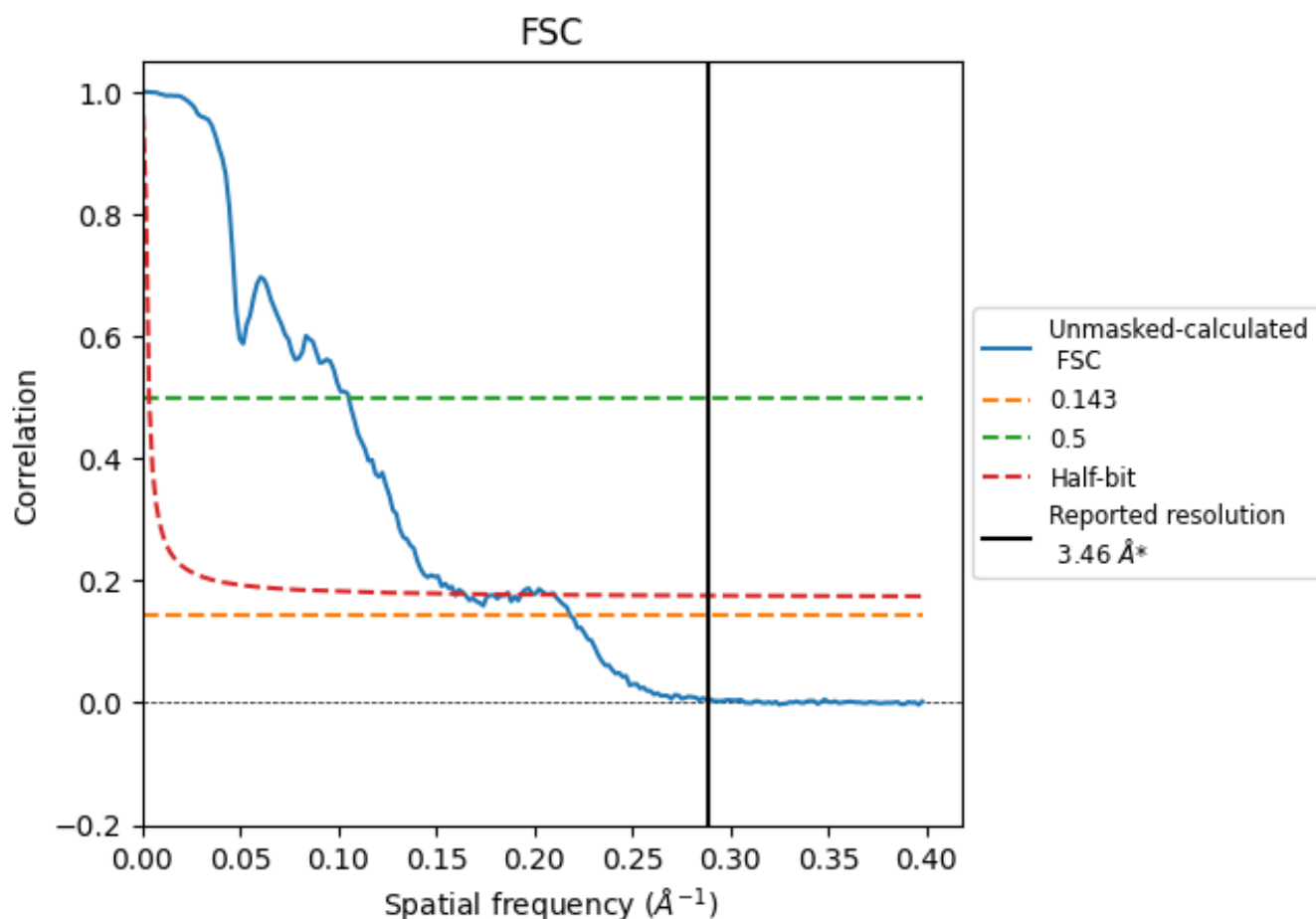


*Reported resolution corresponds to spatial frequency of 0.289 Å⁻¹

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 0.289 Å⁻¹

8.2 Resolution estimates [i](#)

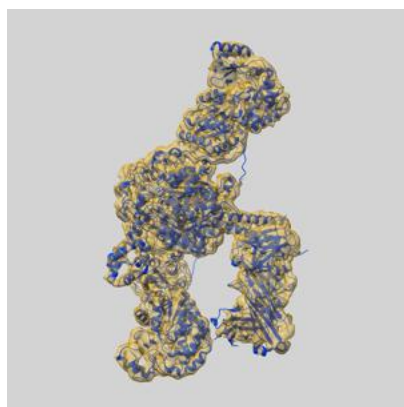
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.46	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	4.58	9.51	6.27

*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 4.58 differs from the reported value 3.46 by more than 10 %

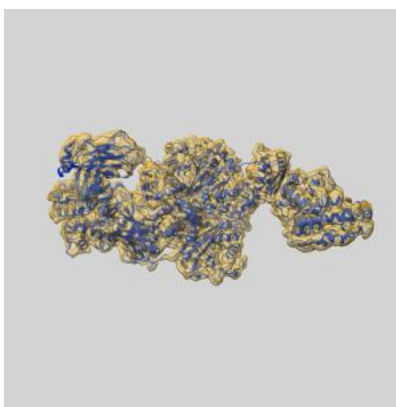
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-41495 and PDB model 8TPW. Per-residue inclusion information can be found in [section 3](#) on [page 5](#).

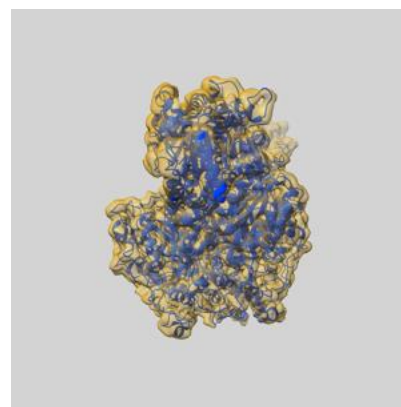
9.1 Map-model overlay [i](#)



X



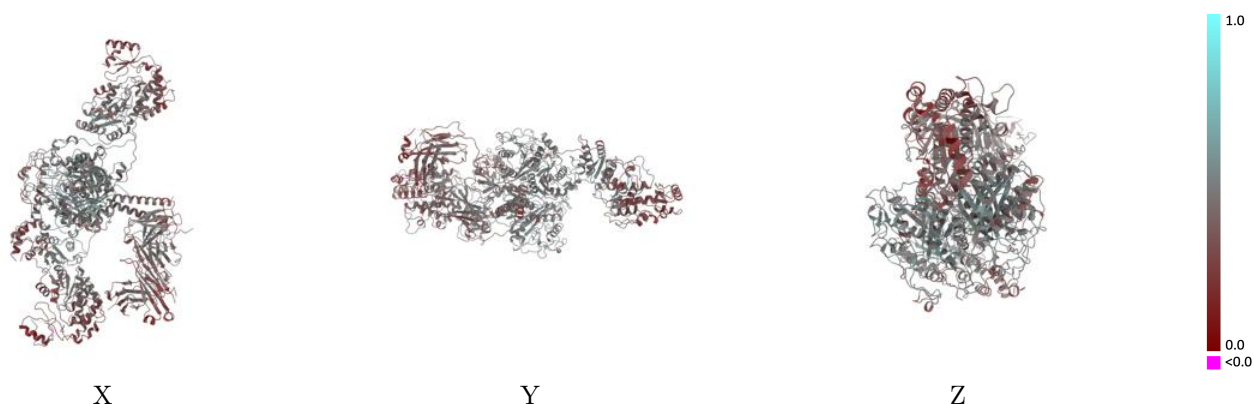
Y



Z

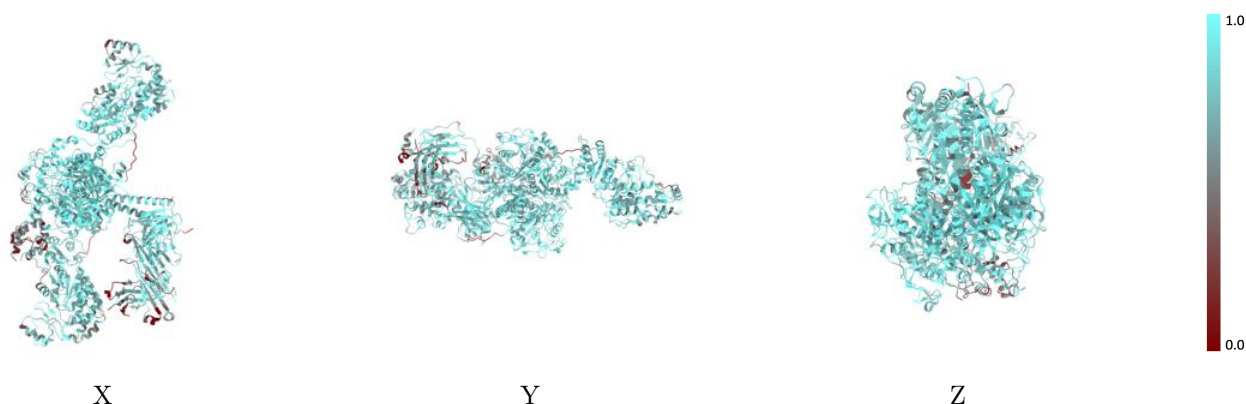
The images above show the 3D surface view of the map at the recommended contour level 0.745 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



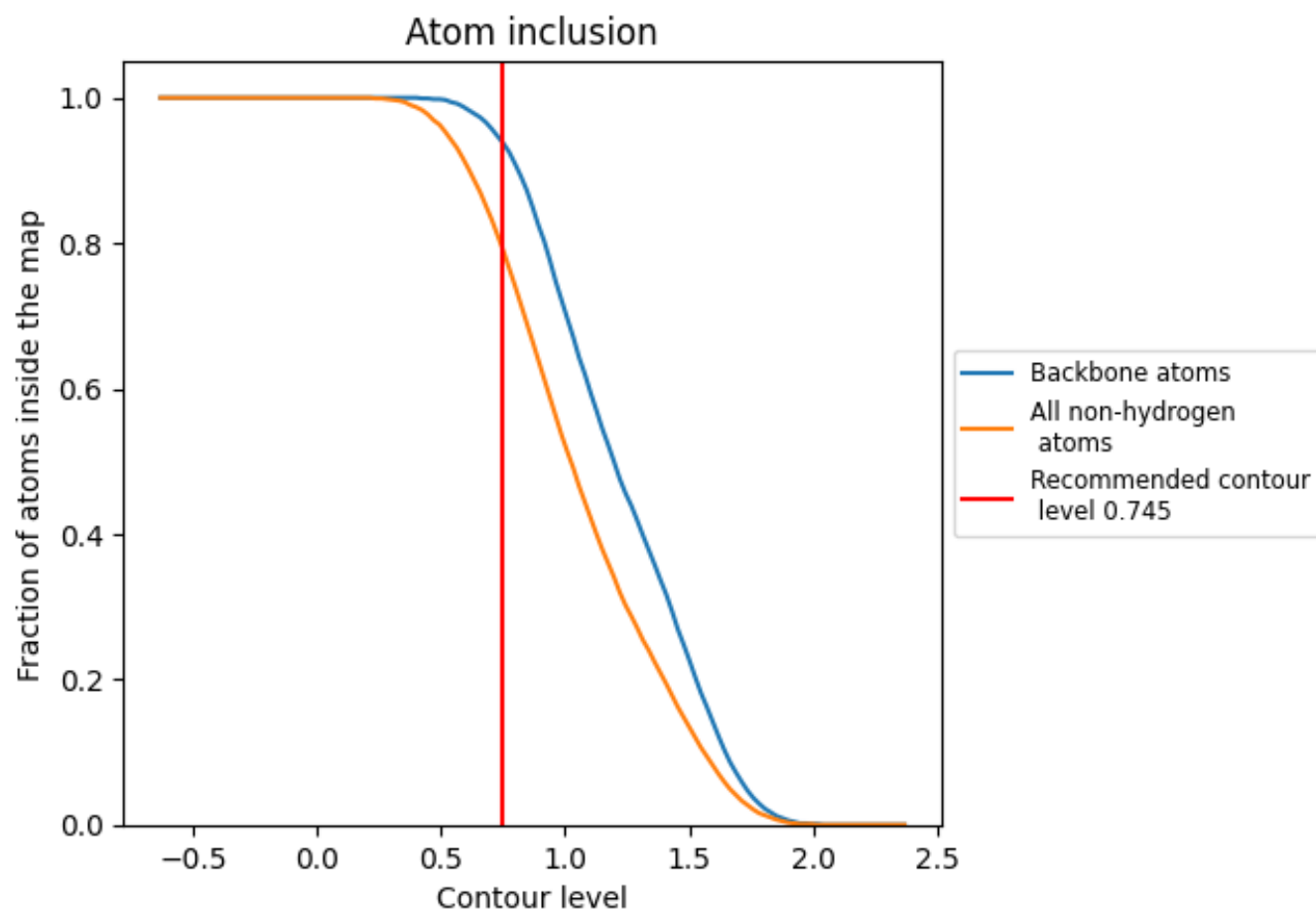
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.745).

9.4 Atom inclusion [i](#)



At the recommended contour level, 94% of all backbone atoms, 80% 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 (0.745) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	<div></div> 0.7950	<div></div> 0.4230
A	<div></div> 0.8380	<div></div> 0.4360
B	<div></div> 0.8370	<div></div> 0.4370
C	<div></div> 0.4030	<div></div> 0.3520
H	<div></div> 0.6600	<div></div> 0.3870
L	<div></div> 0.7120	<div></div> 0.3690

