



wwPDB EM Validation Summary Report ⓘ

Mar 8, 2026 – 11:56 AM UTC

PDB ID : 7ZLI / pdb_00007zli
EMDB ID : EMD-14781
Title : Cryo-EM structure of C-mannosyltransferase CeDPY19, in complex with Dol25-P-Man and bound to CMT2-Fab and anti-Fab nanobody
Authors : Bloch, J.S.; Mukherjee, S.; Boilevin, J.; Irobalieva, R.; Darbre, T.; Reymond, J.L.; Kossiakoff, A.A.; Goddard-Borger, E.D.; Locher, K.P.
Deposited on : 2022-04-15
Resolution : 2.99 Å(reported)

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

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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:

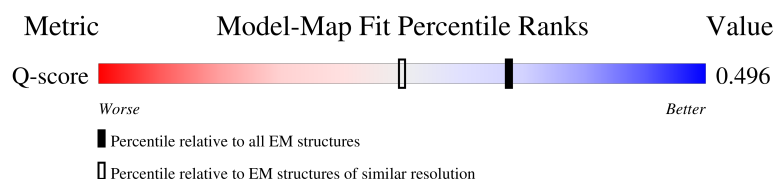
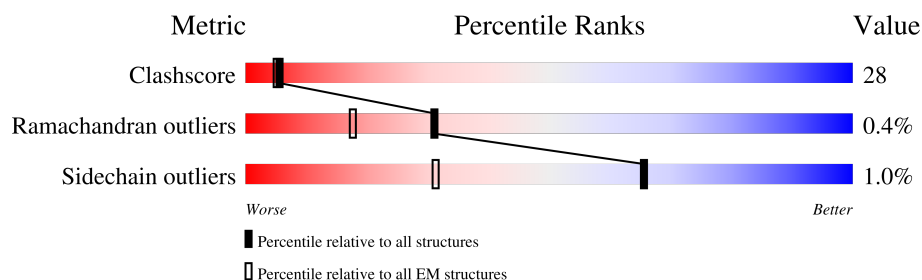
EMDB validation analysis : 0.0.1.dev132
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data 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 2.99 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	13287 (2.49 - 3.49)

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	H	236	60% 52% 44% .
2	K	123	98% 41% 56% .
3	L	215	63% 47% 51% .
4	A	707	21% 60% 32% 7%

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 9636 atoms, of which 54 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 CMT2-Fab heavy chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	H	226	Total	C	N	O	S	0	0
			1679	1062	278	334	5		

- Molecule 2 is a protein called Anti-Fab nanobody.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	K	120	Total	C	N	O	S	0	0
			921	571	162	184	4		

- Molecule 3 is a protein called CMT2-Fab light chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	L	211	Total	C	N	O	S	0	0
			1598	996	269	328	5		

There are 20 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
L	1	SER	-	expression tag	UNP Q7Z3Y4
L	19	ARG	THR	conflict	UNP Q7Z3Y4
L	29	SER	ASP	conflict	UNP Q7Z3Y4
L	30	VAL	ILE	conflict	UNP Q7Z3Y4
L	32	SER	ASN	conflict	UNP Q7Z3Y4
L	33	ALA	TYR	conflict	UNP Q7Z3Y4
L	34	VAL	LEU	conflict	UNP Q7Z3Y4
L	37	TYR	PHE	conflict	UNP Q7Z3Y4
L	47	LEU	SER	conflict	UNP Q7Z3Y4
L	51	SER	GLY	conflict	UNP Q7Z3Y4
L	56	TYR	GLN	conflict	UNP Q7Z3Y4
L	60	PRO	GLN	conflict	UNP Q7Z3Y4
L	62	ARG	LYS	conflict	UNP Q7Z3Y4
L	67	ARG	GLY	conflict	UNP Q7Z3Y4
L	92	GLY	TYR	conflict	UNP Q7Z3Y4

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Chain	Residue	Modelled	Actual	Comment	Reference
L	93	ALA	LYS	conflict	UNP Q7Z3Y4
L	95	GLU	TYR	conflict	UNP Q7Z3Y4
L	97	ILE	VAL	conflict	UNP Q7Z3Y4
L	105	VAL	LEU	conflict	UNP Q7Z3Y4
L	124	SER	GLU	conflict	UNP Q7Z3Y4

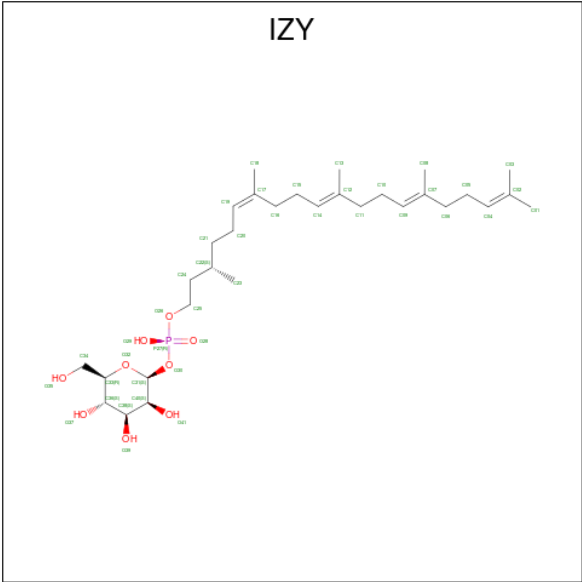
- Molecule 4 is a protein called C-mannosyltransferase dpy-19.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	A	661	Total	C	N	O	S	0	0
			5330	3508	871	921	30		

There are 24 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	684	LEU	-	expression tag	UNP P34413
A	685	GLU	-	expression tag	UNP P34413
A	686	ASP	-	expression tag	UNP P34413
A	687	TYR	-	expression tag	UNP P34413
A	688	LYS	-	expression tag	UNP P34413
A	689	ASP	-	expression tag	UNP P34413
A	690	HIS	-	expression tag	UNP P34413
A	691	ASP	-	expression tag	UNP P34413
A	692	GLY	-	expression tag	UNP P34413
A	693	ASP	-	expression tag	UNP P34413
A	694	TYR	-	expression tag	UNP P34413
A	695	LYS	-	expression tag	UNP P34413
A	696	ASP	-	expression tag	UNP P34413
A	697	HIS	-	expression tag	UNP P34413
A	698	ASP	-	expression tag	UNP P34413
A	699	ILE	-	expression tag	UNP P34413
A	700	ASP	-	expression tag	UNP P34413
A	701	TYR	-	expression tag	UNP P34413
A	702	LYS	-	expression tag	UNP P34413
A	703	ASP	-	expression tag	UNP P34413
A	704	ASP	-	expression tag	UNP P34413
A	705	ASP	-	expression tag	UNP P34413
A	706	ASP	-	expression tag	UNP P34413
A	707	LYS	-	expression tag	UNP P34413

- Molecule 5 is Dolichol monophosphate beta-D-Mannose (CCD ID: IZY) (formula: C₃₁H₅₅O₉P) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					AltConf
5	A	1	Total	C	H	O	P	0
			95	31	54	9	1	

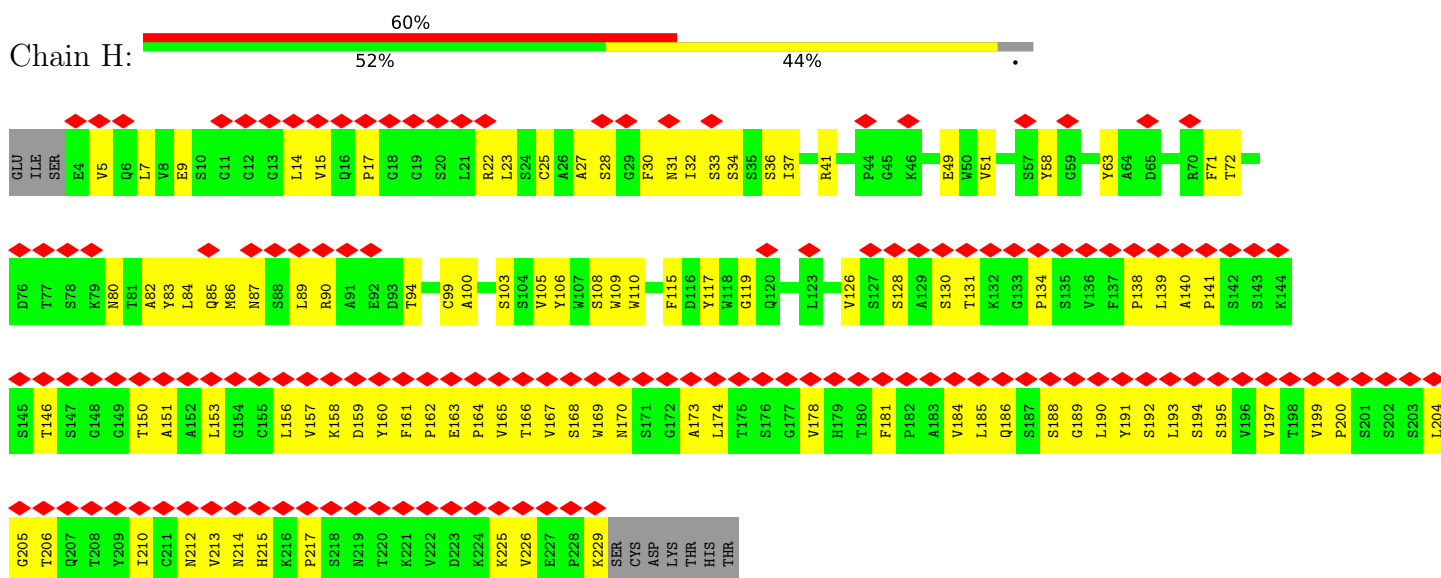
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		AltConf
6	A	13	Total	O	0
			13	13	

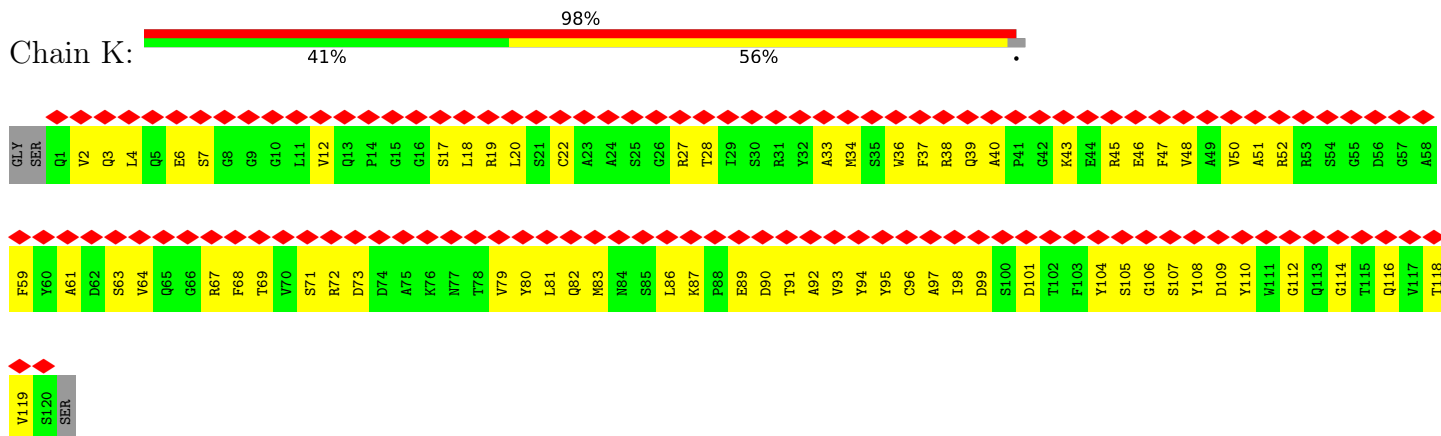
3 Residue-property plots

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: CMT2-Fab heavy chain



• Molecule 2: Anti-Fab nanobody

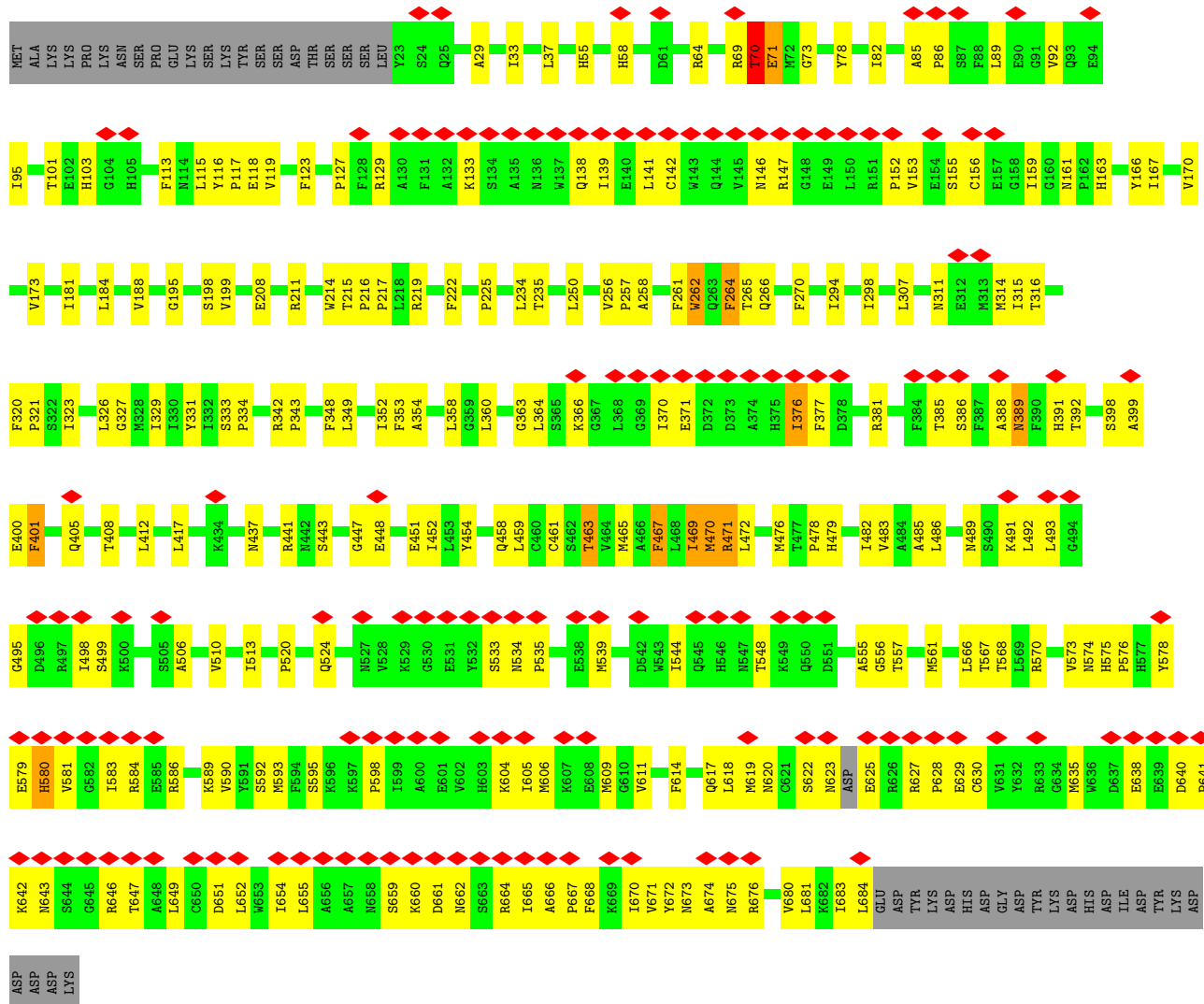


• Molecule 3: CMT2-Fab light chain





• Molecule 4: C-mannosyltransferase dpy-19



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	301020	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 ($e^-/\text{\AA}^2$)	48	Depositor
Minimum defocus (nm)	600	Depositor
Maximum defocus (nm)	800	Depositor
Magnification	Not provided	
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	3.367	Depositor
Minimum map value	-2.466	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.064	Depositor
Recommended contour level	0.7	Depositor
Map size (Å)	264.0, 264.0, 264.0	wwPDB
Map dimensions	400, 400, 400	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.66, 0.66, 0.66	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: IZY

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	H	0.22	0/1724	0.33	0/2355
2	K	0.09	0/940	0.27	0/1272
3	L	0.22	0/1631	0.33	0/2217
4	A	0.43	0/5472	0.59	9/7426 (0.1%)
All	All	0.35	0/9767	0.49	9/13270 (0.1%)

There are no bond length outliers.

The worst 5 of 9 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	70	THR	N-CA-C	11.75	123.64	111.07
4	A	70	THR	CB-CA-C	-10.90	93.76	110.88
4	A	264	PHE	CA-CB-CG	6.61	120.41	113.80
4	A	467	PHE	O-C-N	-5.74	115.50	122.22
4	A	463	THR	O-C-N	-5.66	116.12	122.12

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	H	1679	0	1612	120	0
2	K	921	0	862	94	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	L	1598	0	1547	137	0
4	A	5330	0	5372	196	0
5	A	41	54	0	5	0
6	A	13	0	0	1	0
All	All	9582	54	9393	523	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 28.

The worst 5 of 523 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:583:ILE:CD1	4:A:586:ARG:HD3	1.72	1.20
4:A:142:CYS:HB3	4:A:156:CYS:HA	1.30	1.10
4:A:583:ILE:HD12	4:A:586:ARG:HD3	1.31	1.07
1:H:153:LEU:HD12	1:H:199:VAL:HG21	1.41	1.02
2:K:72:ARG:HG3	2:K:79:VAL:HG22	1.41	1.00

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	H	224/236 (95%)	213 (95%)	11 (5%)	0	100	100
2	K	118/123 (96%)	112 (95%)	6 (5%)	0	100	100
3	L	209/215 (97%)	190 (91%)	19 (9%)	0	100	100
4	A	657/707 (93%)	609 (93%)	43 (6%)	5 (1%)	16	50
All	All	1208/1281 (94%)	1124 (93%)	79 (6%)	5 (0%)	31	65

All (5) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
4	A	69	ARG
4	A	262	TRP
4	A	470	MET
4	A	264	PHE
4	A	389	ASN

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	H	186/198 (94%)	186 (100%)	0	100	100
2	K	95/98 (97%)	95 (100%)	0	100	100
3	L	183/188 (97%)	183 (100%)	0	100	100
4	A	582/626 (93%)	572 (98%)	10 (2%)	53	78
All	All	1046/1110 (94%)	1036 (99%)	10 (1%)	65	84

5 of 10 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
4	A	580	HIS
4	A	581	VAL
4	A	584	ARG
4	A	391	HIS
4	A	469	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 13 such sidechains are listed below:

Mol	Chain	Res	Type
4	A	458	GLN
4	A	521	ASN
4	A	617	GLN
4	A	563	ASN
4	A	577	HIS

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 ⓘ

1 ligand 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
5	IZY	A	801	-	40,41,41	1.45	8 (20%)	51,54,54	3.99	17 (33%)

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
5	IZY	A	801	-	-	8/38/58/58	0/1/1/1

The worst 5 of 8 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	A	801	IZY	C01-C02	3.19	1.58	1.50
5	A	801	IZY	C16-C17	2.68	1.56	1.51
5	A	801	IZY	O32-C31	2.63	1.48	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	A	801	IZY	P27-O30	2.54	1.67	1.59
5	A	801	IZY	C10-C09	2.36	1.57	1.50

The worst 5 of 17 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	A	801	IZY	C03-C02-C04	13.54	163.29	122.66
5	A	801	IZY	C10-C09-C07	11.63	154.24	127.62
5	A	801	IZY	C03-C02-C01	-11.11	89.03	114.59
5	A	801	IZY	C15-C14-C12	10.82	152.39	127.62
5	A	801	IZY	C05-C04-C02	9.35	158.83	127.64

There are no chirality outliers.

5 of 8 torsion outliers are listed below:

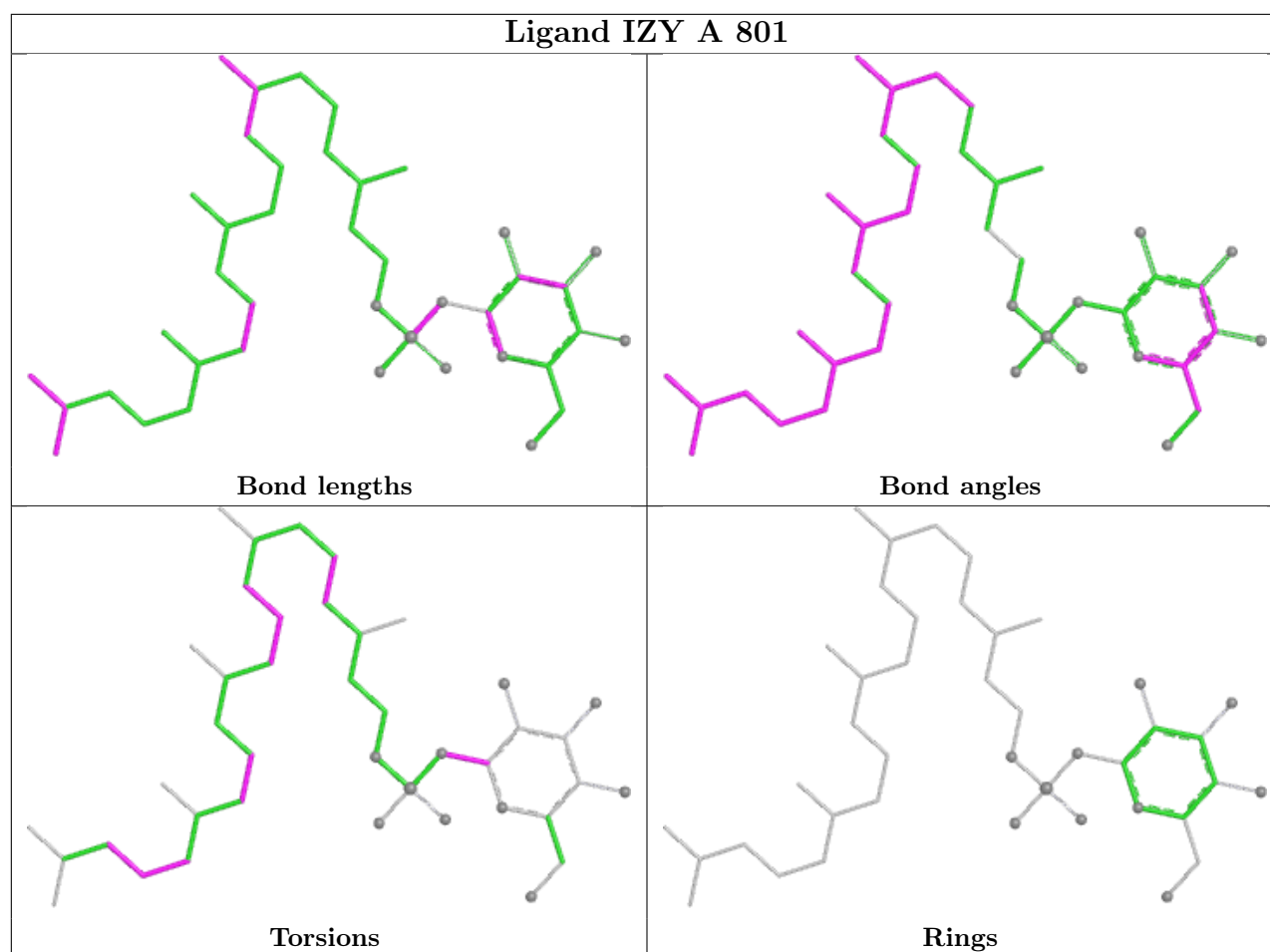
Mol	Chain	Res	Type	Atoms
5	A	801	IZY	C02-C04-C05-C06
5	A	801	IZY	C12-C14-C15-C16
5	A	801	IZY	C14-C15-C16-C17
5	A	801	IZY	C40-C31-O30-P27
5	A	801	IZY	O32-C31-O30-P27

There are no ring outliers.

1 monomer is involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	A	801	IZY	5	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



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.

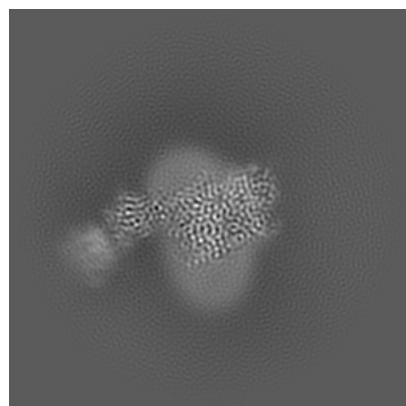
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-14781. These allow visual inspection of the internal detail of the map and identification of artifacts.

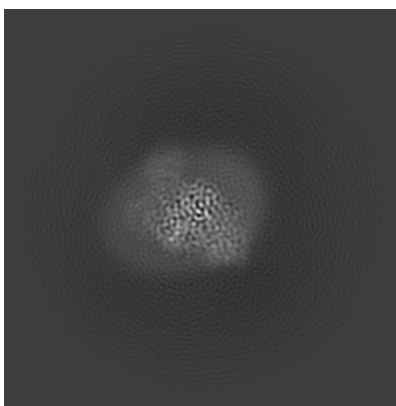
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

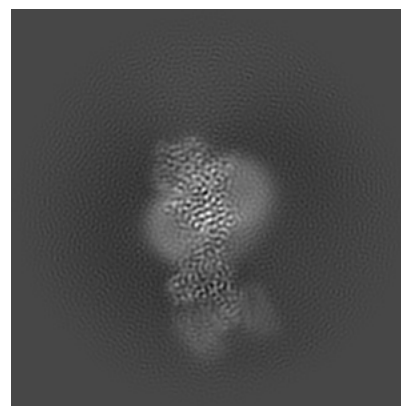
6.1.1 Primary map



X

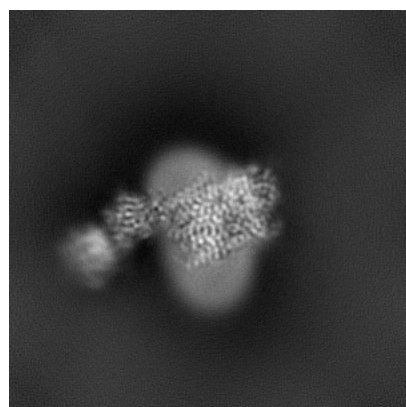


Y

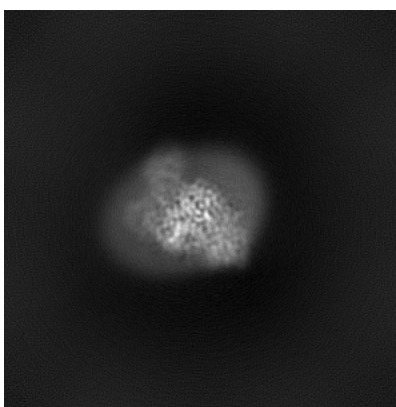


Z

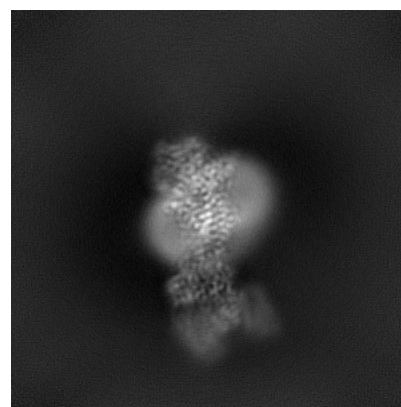
6.1.2 Raw map



X



Y

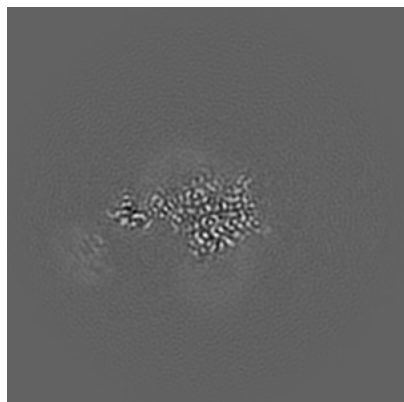


Z

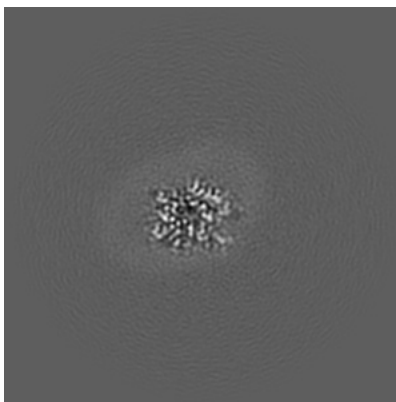
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

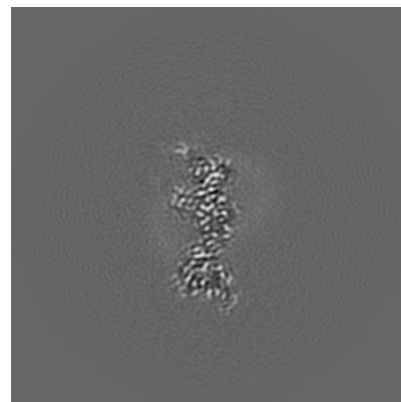
6.2.1 Primary map



X Index: 200

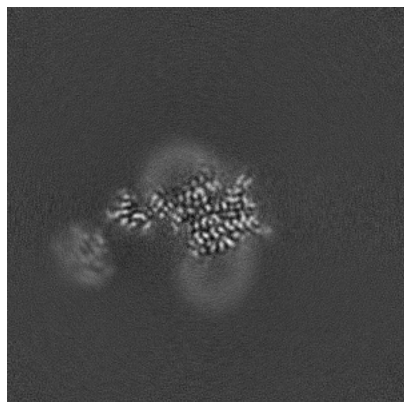


Y Index: 200

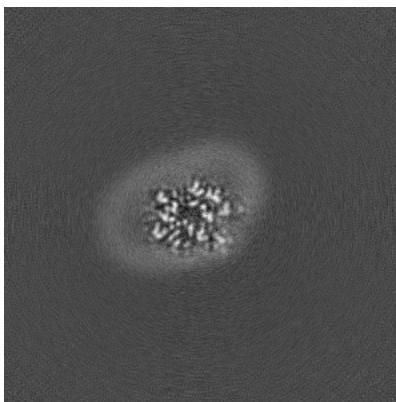


Z Index: 200

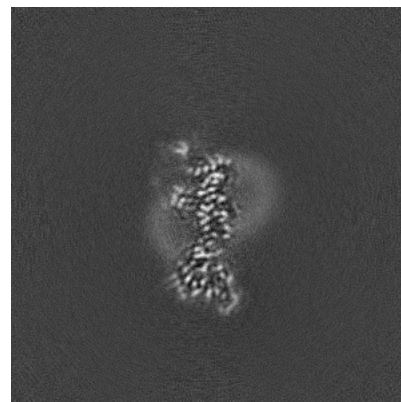
6.2.2 Raw map



X Index: 200



Y Index: 200

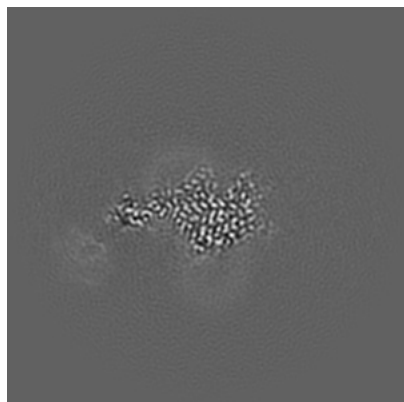


Z Index: 200

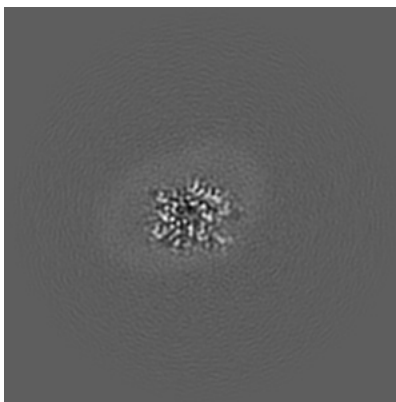
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

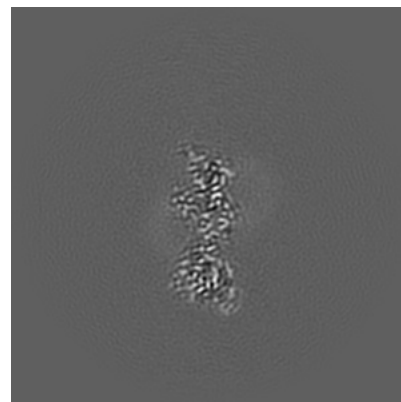
6.3.1 Primary map



X Index: 196

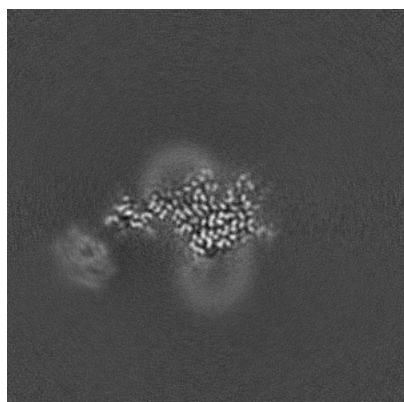


Y Index: 200

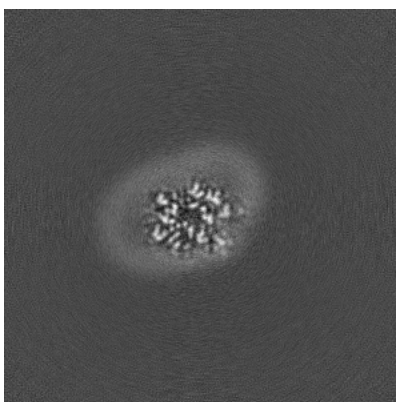


Z Index: 197

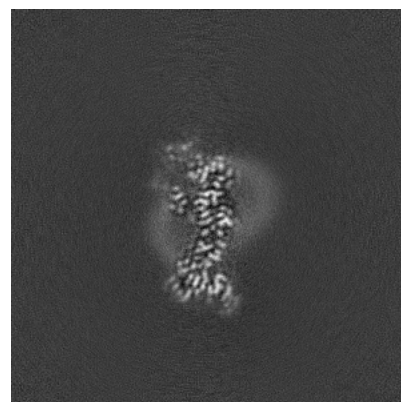
6.3.2 Raw map



X Index: 197



Y Index: 200

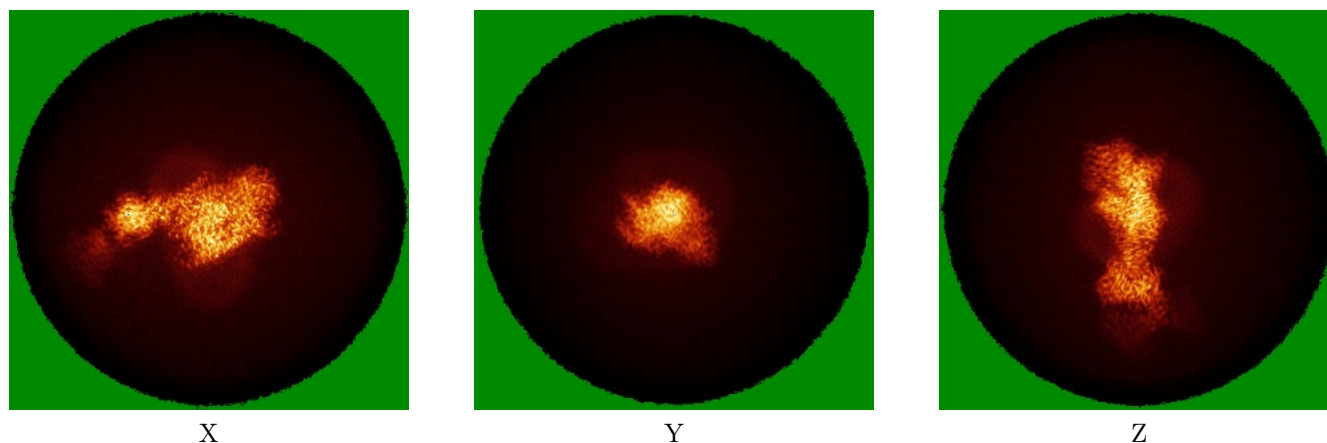


Z Index: 203

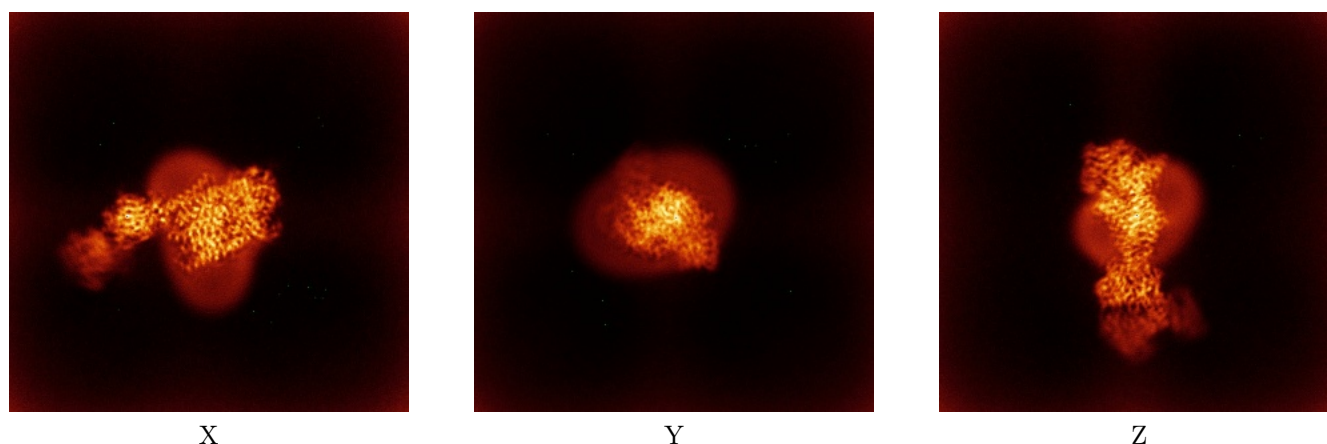
The images above show the largest variance slices of the map in three orthogonal directions.

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.

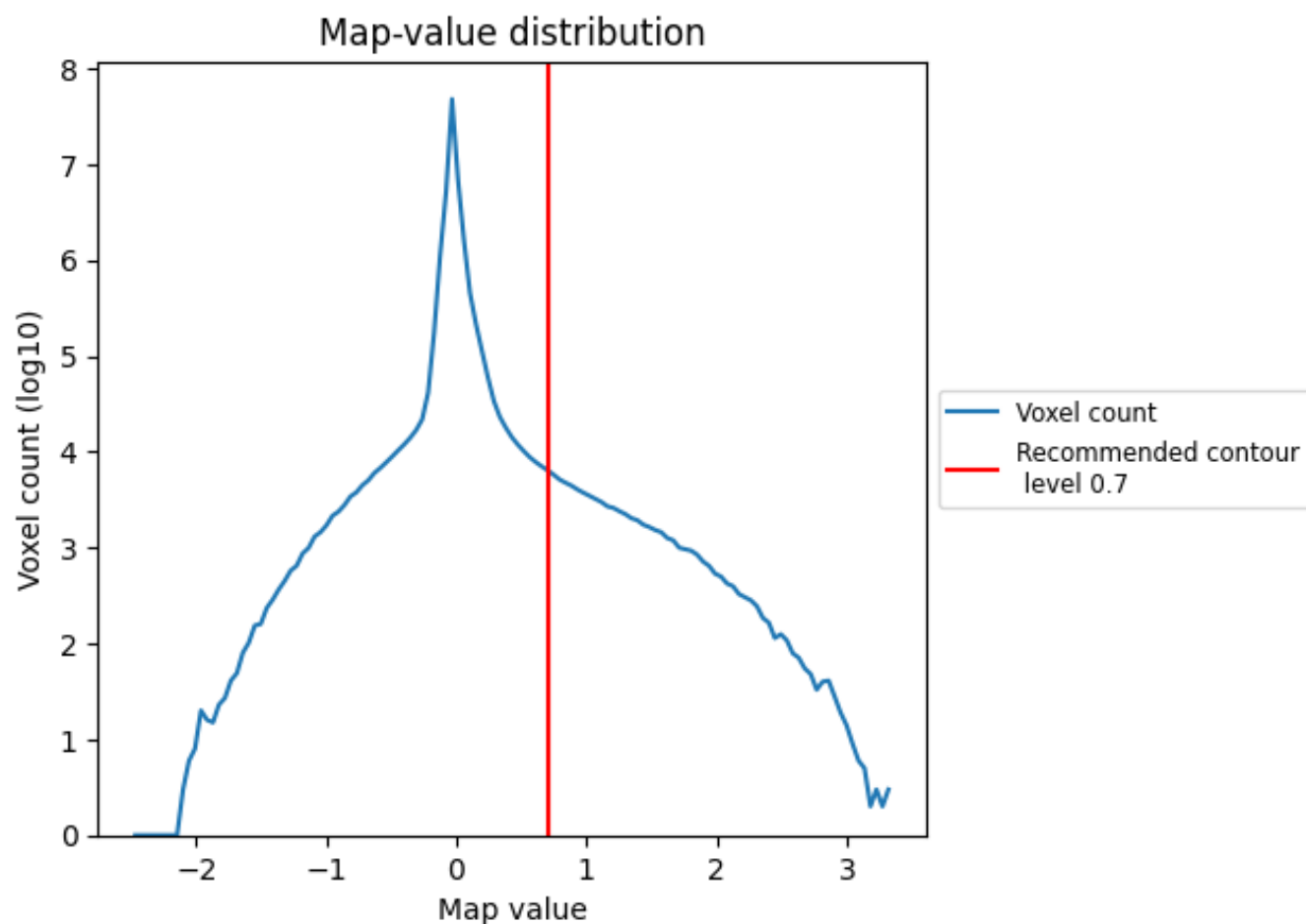
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

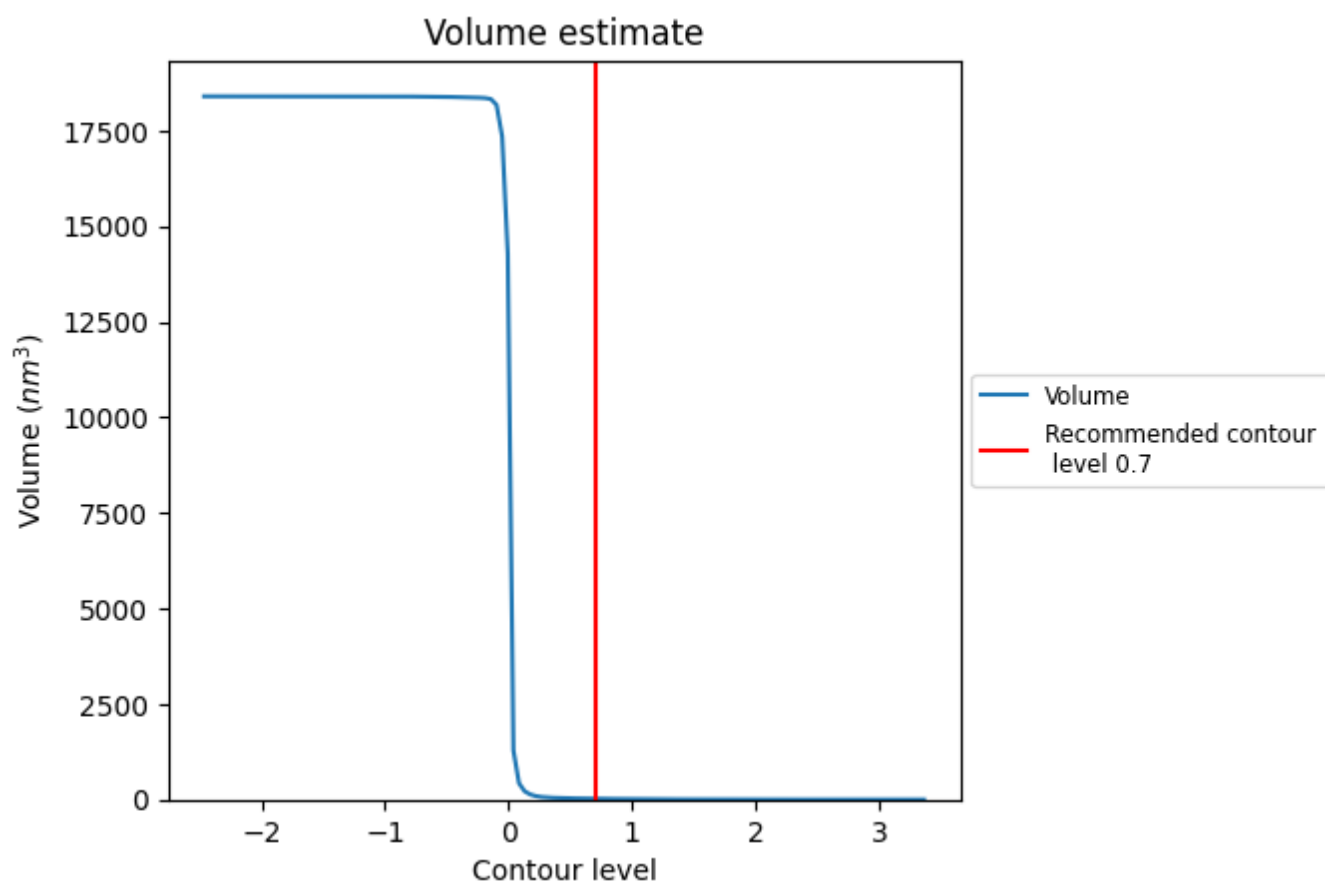
This section contains the results of statistical analysis of the map.

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.

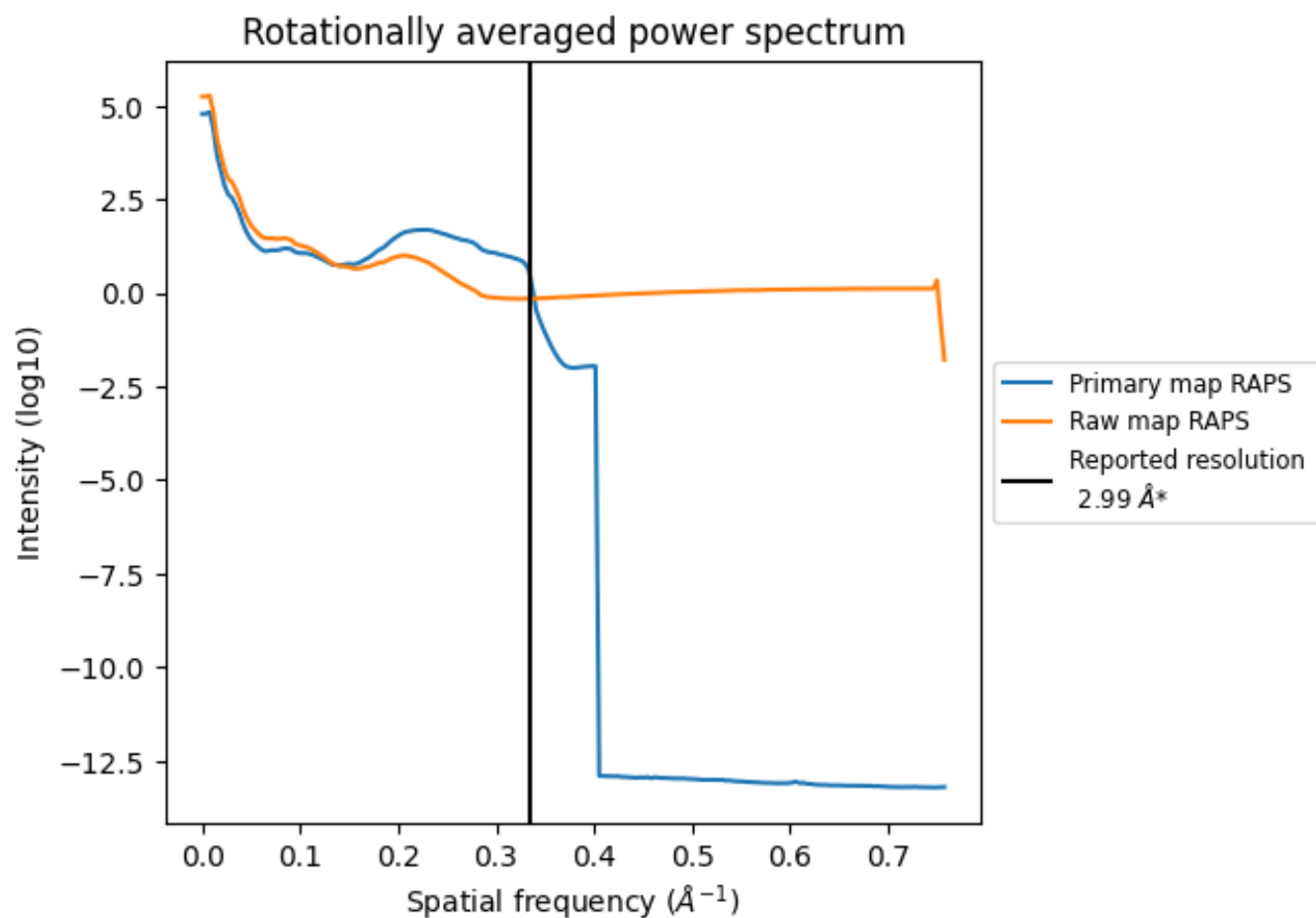
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 22 nm³; this corresponds to an approximate mass of 20 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 ⓘ

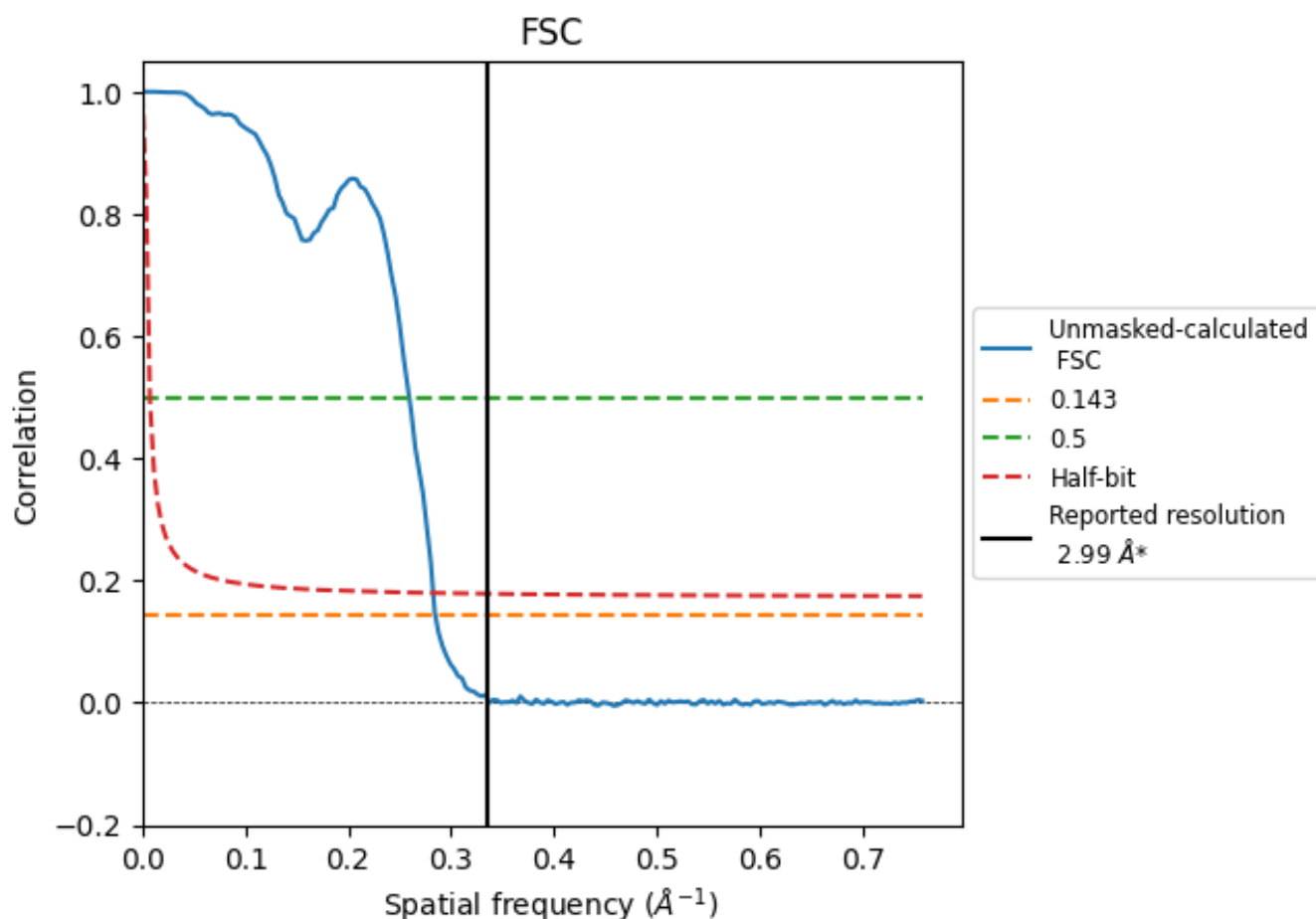


*Reported resolution corresponds to spatial frequency of 0.334 $\text{\AA}^{-1}$

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 0.334 Å⁻¹

8.2 Resolution estimates [i](#)

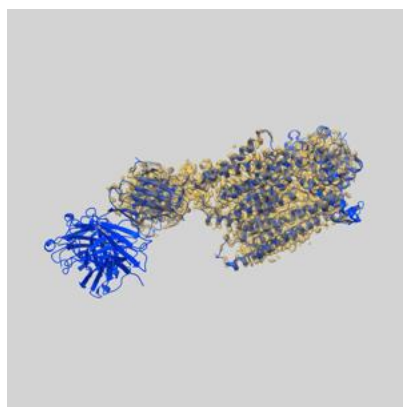
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.99	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	3.51	3.86	3.54

*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 3.51 differs from the reported value 2.99 by more than 10 %

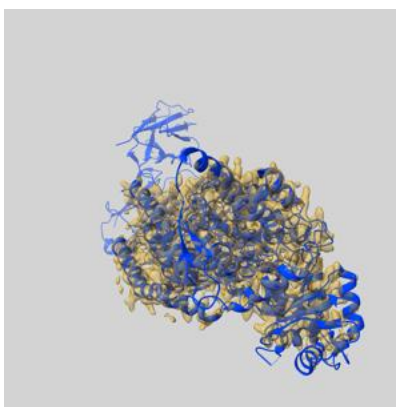
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-14781 and PDB model 7ZLI. Per-residue inclusion information can be found in section 3 on page 6.

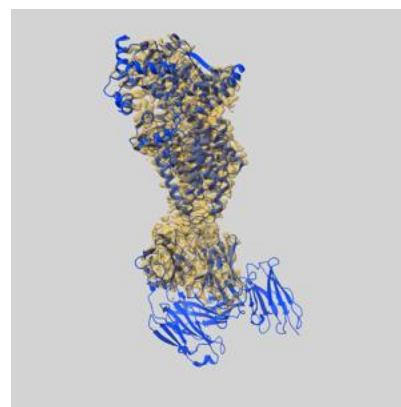
9.1 Map-model overlay [i](#)



X



Y



Z

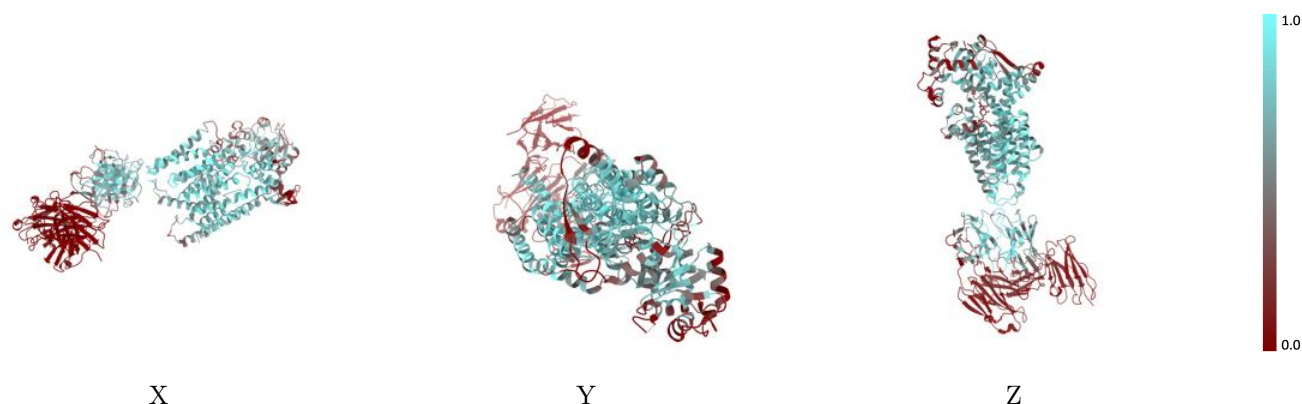
The images above show the 3D surface view of the map at the recommended contour level 0.7 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



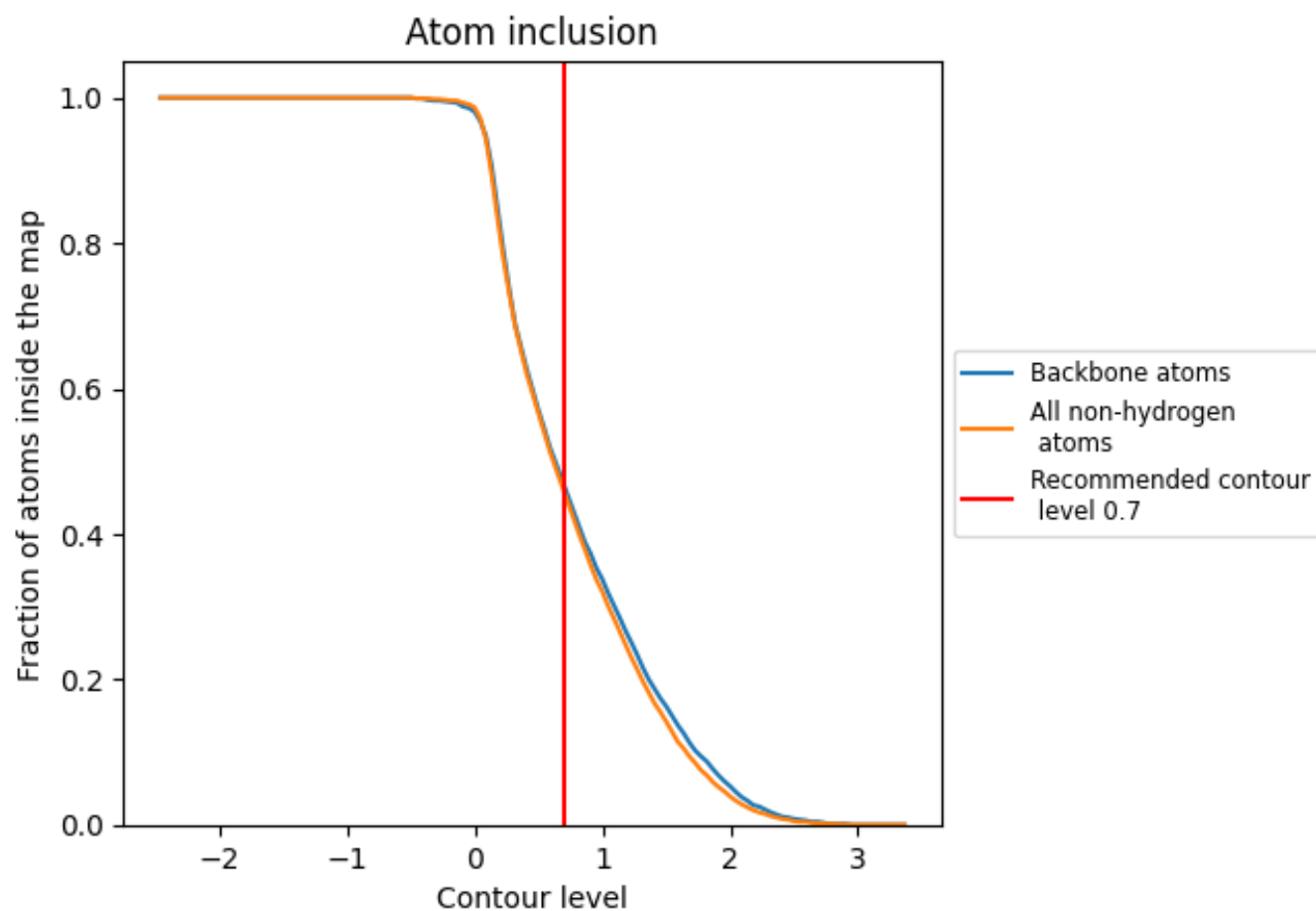
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.7).

9.4 Atom inclusion [i](#)



At the recommended contour level, 47% of all backbone atoms, 46% 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 (0.7) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.4570	0.4960
A	0.6250	0.5620
H	0.3130	0.4640
K	0.0000	0.2400
L	0.3020	0.4570

