



wwPDB EM Validation Summary Report ⓘ

Nov 7, 2022 – 05:03 PM EST

PDB ID : 6O7H
EMDB ID : EMD-0641
Title : Cryo-EM structure of Csm-crRNA-target RNA ternary complex in complex with cA4 in type III-A CRISPR-Cas system
Authors : Jia, N.; Patel, D.J.
Deposited on : 2019-03-07
Resolution : 2.90 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:

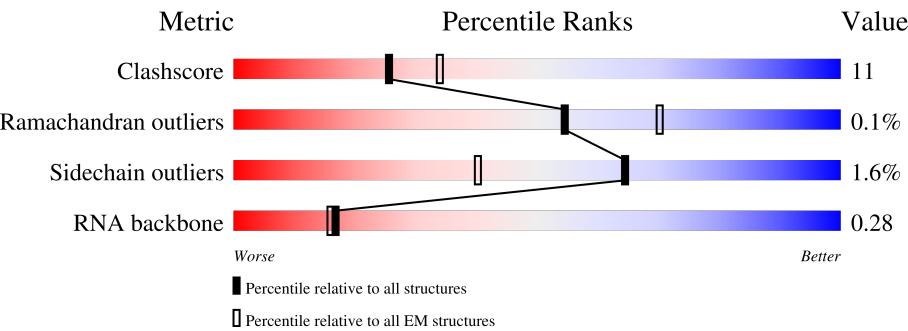
EMDB validation analysis	:	0.0.1.dev43
Mogul	:	1.8.5 (274361), CSD as541be (2020)
MolProbity	:	4.02b-467
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ	:	1.9.9
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.31.2

1 Overall quality at a glance i

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

The reported resolution of this entry is 2.90 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.




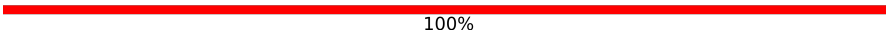
Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826
RNA backbone	4643	859

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	791	 76% 21% ..
2	B	188	 12% 70% 10% . 20%
3	C	292	 75% 20% . 5%
3	D	292	 75% 23% .
4	E	289	 82% 16% ..
5	G	38	 37% 24% 11% 29%
6	H	40	 5% 35% 8% 52%

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Mol	Chain	Length	Quality of chain
7	F	378	
8	K	4	

2 Entry composition

There are 10 unique types of molecules in this entry. The entry contains 17576 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 CRISPR system single-strand-specific deoxyribonuclease Cas10/Csm1 (subtype III-A).

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	771	Total	C	N	O	S	0	0
			6152	3943	1073	1117	19		

There are 14 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-13	MET	-	initiating methionine	UNP B6YWB8
A	-12	GLY	-	expression tag	UNP B6YWB8
A	-11	SER	-	expression tag	UNP B6YWB8
A	-10	SER	-	expression tag	UNP B6YWB8
A	-9	HIS	-	expression tag	UNP B6YWB8
A	-8	HIS	-	expression tag	UNP B6YWB8
A	-7	HIS	-	expression tag	UNP B6YWB8
A	-6	HIS	-	expression tag	UNP B6YWB8
A	-5	HIS	-	expression tag	UNP B6YWB8
A	-4	HIS	-	expression tag	UNP B6YWB8
A	-3	SER	-	expression tag	UNP B6YWB8
A	-2	GLN	-	expression tag	UNP B6YWB8
A	-1	ASP	-	expression tag	UNP B6YWB8
A	0	PRO	-	expression tag	UNP B6YWB8

- Molecule 2 is a protein called Csm2.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	150	Total	C	N	O	S	0	0
			1047	668	183	192	4		

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	-1	GLY	-	expression tag	UNP B6YWB9
B	0	SER	-	expression tag	UNP B6YWB9

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Chain	Residue	Modelled	Actual	Comment	Reference
B	1	VAL	-	expression tag	UNP B6YWB9

- Molecule 3 is a protein called Csm3.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C	278	Total	C	N	O	S	0	0
			2214	1406	389	413	6		
3	D	285	Total	C	N	O	S	0	0
			2265	1437	396	425	7		

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	-1	GLY	-	expression tag	UNP B6YWC0
C	0	SER	-	expression tag	UNP B6YWC0
C	36	ALA	ASP	conflict	UNP B6YWC0
D	-1	GLY	-	expression tag	UNP B6YWC0
D	0	SER	-	expression tag	UNP B6YWC0
D	36	ALA	ASP	conflict	UNP B6YWC0

- Molecule 4 is a protein called Csm4.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	E	286	Total	C	N	O	S	0	0
			2261	1467	380	410	4		

- Molecule 5 is a RNA chain called RNA (38-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
5	G	27	Total	C	N	O	P	0	0
			589	262	115	186	26		

- Molecule 6 is a RNA chain called RNA (40-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
6	H	19	Total	C	N	O	P	0	0
			398	178	69	132	19		

- Molecule 7 is a protein called Csm5.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	F	361	Total	C	N	O	S	0	0
			2536	1603	453	471	9		

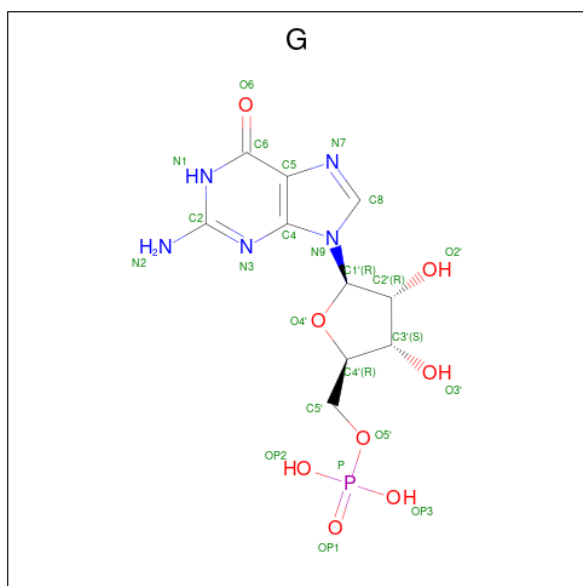
- Molecule 8 is a RNA chain called Cyclic DNA cA4.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	K	4	Total	C	N	O	P	0	0
			88	40	20	24	4		

- Molecule 9 is ZINC ION (three-letter code: ZN) (formula: Zn).

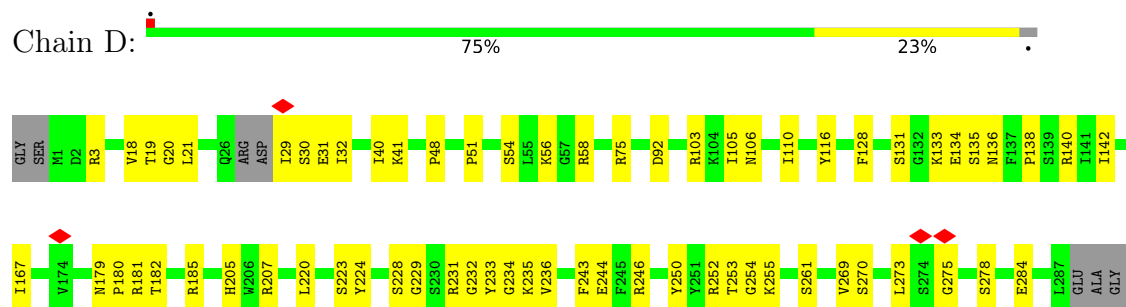
Mol	Chain	Residues	Atoms		AltConf
9	A	1	Total	Zn	0
			1	1	
9	C	1	Total	Zn	0
			1	1	
9	D	1	Total	Zn	0
			1	1	

- Molecule 10 is GUANOSINE-5'-MONOPHOSPHATE (three-letter code: G) (formula: C₁₀H₁₄N₅O₈P).

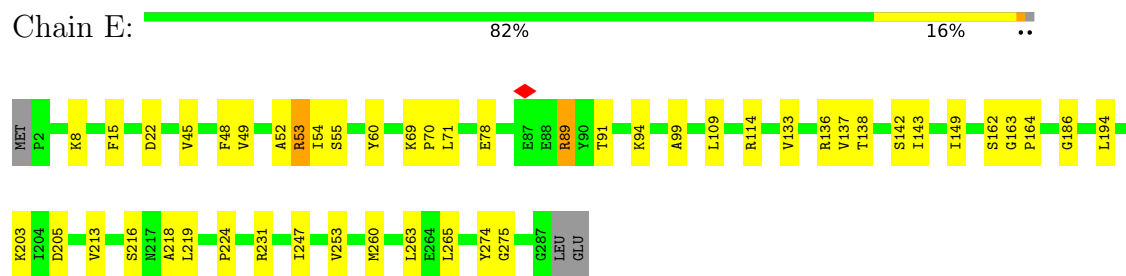


Mol	Chain	Residues	Atoms					AltConf
10	H	1	Total	C	N	O	P	0
			23	10	5	7	1	

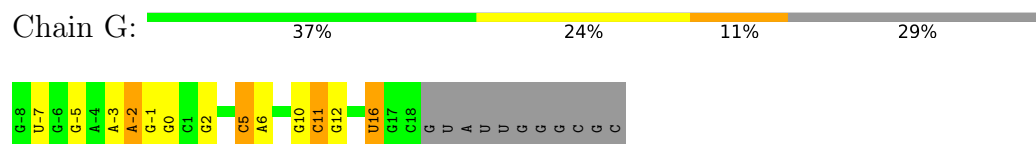
- Molecule 3: Csm3



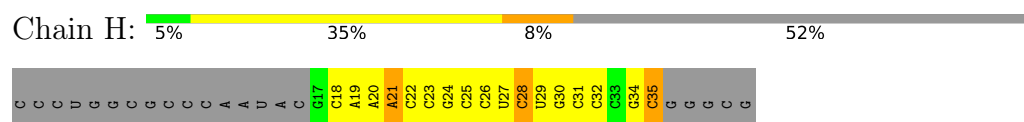
- Molecule 4: Csm4



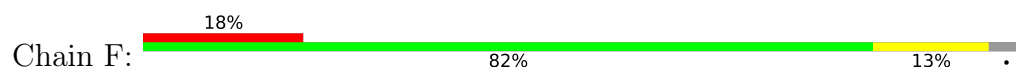
- Molecule 5: RNA (38-MER)

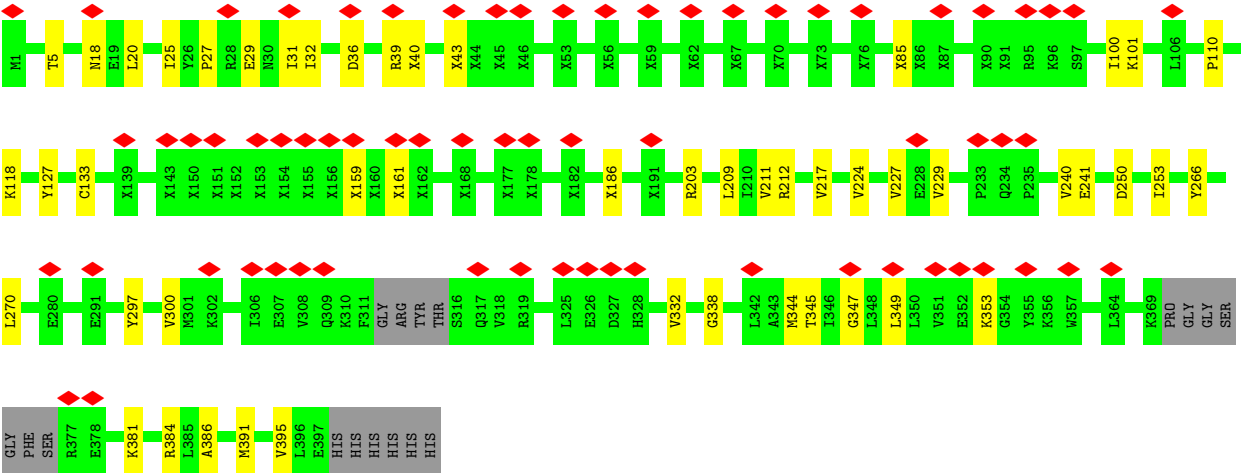


- Molecule 6: RNA (40-MER)



- Molecule 7: Csm5





● Molecule 8: Cyclic DNA cA4



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	151715	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 ($e^-/\text{\AA}^2$)	1.35	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.350	Depositor
Minimum map value	-0.167	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.005	Depositor
Recommended contour level	0.015	Depositor
Map size (\AA)	278.784, 278.784, 278.784	wwPDB
Map dimensions	256, 256, 256	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	1.089, 1.089, 1.089	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section:
ZN

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	0.37	0/6293	0.57	1/8493 (0.0%)
2	B	0.26	0/1059	0.55	3/1429 (0.2%)
3	C	0.35	0/2263	0.58	0/3051
3	D	0.35	0/2314	0.59	0/3119
4	E	0.32	0/2322	0.55	0/3146
5	G	0.42	0/661	0.84	0/1033
6	H	0.28	0/442	0.94	0/685
7	F	0.26	0/2122	0.55	0/2875
8	K	4.30	28/99 (28.3%)	7.27	56/152 (36.8%)
All	All	0.47	28/17575 (0.2%)	0.83	60/23983 (0.3%)

The worst 5 of 28 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	K	3	A	N7-C5	-10.78	1.32	1.39
8	K	4	A	N7-C5	-10.75	1.32	1.39
8	K	1	A	N7-C5	-10.13	1.33	1.39
8	K	2	A	N7-C5	-9.46	1.33	1.39
8	K	3	A	C5-C6	-9.15	1.32	1.41

The worst 5 of 60 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	K	3	A	O5'-P-OP2	-22.67	83.50	110.70
8	K	3	A	N1-C2-N3	-22.59	118.01	129.30
8	K	2	A	N1-C2-N3	-22.30	118.15	129.30
8	K	4	A	N1-C2-N3	-22.30	118.15	129.30
8	K	1	A	N1-C2-N3	-22.27	118.16	129.30

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	A	6152	0	6141	158	0
2	B	1047	0	939	9	0
3	C	2214	0	2184	67	0
3	D	2265	0	2236	76	0
4	E	2261	0	2265	53	0
5	G	589	0	295	12	0
6	H	398	0	207	12	0
7	F	2536	0	2139	33	0
8	K	88	0	44	25	0
9	A	1	0	0	0	0
9	C	1	0	0	0	0
9	D	1	0	0	0	0
10	H	23	0	12	2	0
All	All	17576	0	16462	388	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 11.

The worst 5 of 388 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:E:218:ALA:HB3	4:E:247:ILE:CG1	1.64	1.26
1:A:183:LEU:HD12	1:A:202:MET:HE1	1.24	1.16
4:E:52:ALA:HB2	4:E:163:GLY:CA	1.77	1.15
1:A:334:GLU:OE2	1:A:366:ARG:HD3	1.45	1.14
4:E:52:ALA:HB2	4:E:163:GLY:HA3	1.18	1.14

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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	767/791 (97%)	729 (95%)	38 (5%)	0	100	100
2	B	142/188 (76%)	128 (90%)	12 (8%)	2 (1%)	11	36
3	C	274/292 (94%)	256 (93%)	18 (7%)	0	100	100
3	D	281/292 (96%)	265 (94%)	16 (6%)	0	100	100
4	E	284/289 (98%)	271 (95%)	13 (5%)	0	100	100
7	F	259/378 (68%)	249 (96%)	10 (4%)	0	100	100
All	All	2007/2230 (90%)	1898 (95%)	107 (5%)	2 (0%)	54	82

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	33	PRO
2	B	70	SER

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	A	643/665 (97%)	630 (98%)	13 (2%)	55	82
2	B	85/154 (55%)	85 (100%)	0	100	100
3	C	237/247 (96%)	233 (98%)	4 (2%)	60	86
3	D	243/247 (98%)	237 (98%)	6 (2%)	47	78
4	E	237/240 (99%)	235 (99%)	2 (1%)	81	94

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
7	F	212/245 (86%)	211 (100%)	1 (0%)	88	96
All	All	1657/1798 (92%)	1631 (98%)	26 (2%)	64	86

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

Mol	Chain	Res	Type
3	C	181	ARG
3	D	21	LEU
4	E	89	ARG
3	C	273	LEU
3	D	40	ILE

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

Mol	Chain	Res	Type
3	D	212	ASN
4	E	200	HIS
7	F	18	ASN
3	C	83	ASN
3	C	179	ASN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
5	G	26/38 (68%)	8 (30%)	2 (7%)
6	H	18/40 (45%)	13 (72%)	0
8	K	4/4 (100%)	3 (75%)	2 (50%)
All	All	48/82 (58%)	24 (50%)	4 (8%)

5 of 24 RNA backbone outliers are listed below:

Mol	Chain	Res	Type
5	G	-7	U
5	G	-2	A
5	G	2	G
5	G	5	C
5	G	6	A

All (4) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
5	G	5	C
5	G	11	C
8	K	1	A
8	K	2	A

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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 4 ligands modelled in this entry, 3 are monoatomic - leaving 1 for Mogul analysis.

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$
10	G	H	101	-	18,25,26	1.00	2 (11%)	19,37,40	0.69	1 (5%)

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
10	G	H	101	-	-	1/3/25/26	0/3/3/3

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	H	101	G	C8-N7	-2.40	1.30	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	H	101	G	C5-C6	-2.33	1.42	1.47

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	H	101	G	O6-C6-C5	2.16	128.59	124.37

There are no chirality outliers.

All (1) torsion outliers are listed below:

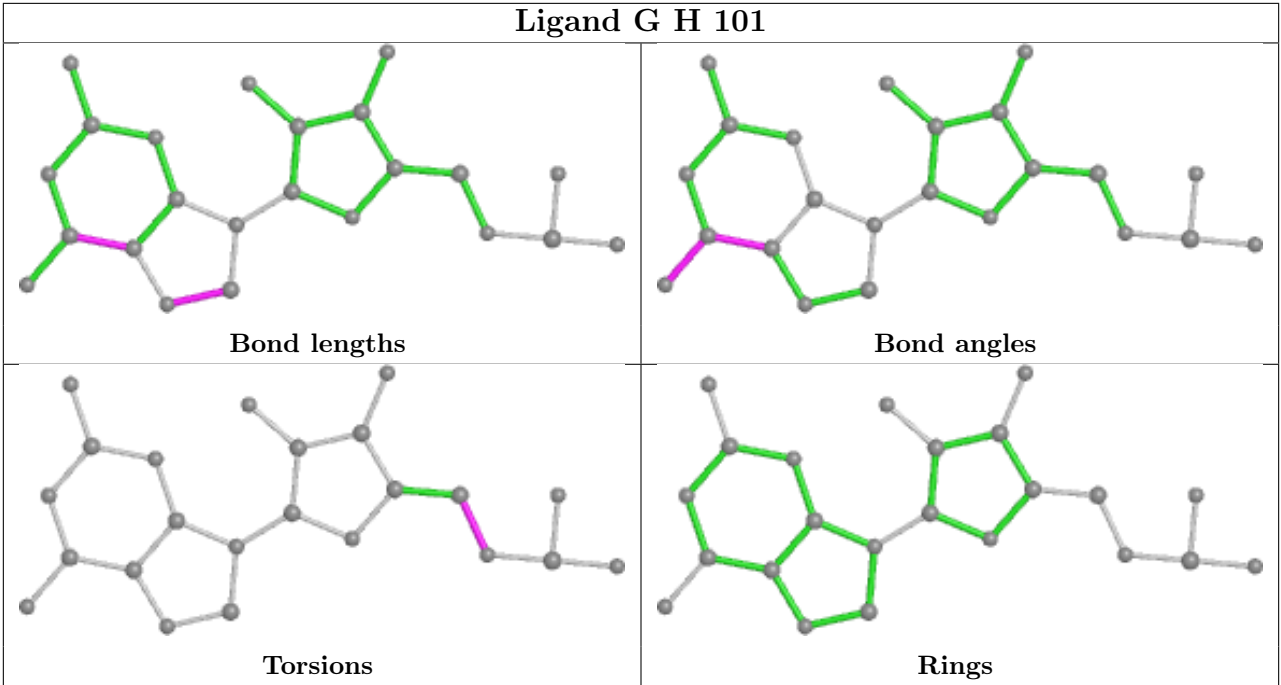
Mol	Chain	Res	Type	Atoms
10	H	101	G	C4'-C5'-O5'-P

There are no ring outliers.

1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
10	H	101	G	2	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 ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

The following chains have linkage breaks:

Mol	Chain	Number of breaks
7	F	8

The worst 5 of 8 chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	F	169:UNK	C	175:UNK	N	19.01
1	F	91:UNK	C	95:ARG	N	8.94
1	F	143:UNK	C	150:UNK	N	8.23
1	F	191:UNK	C	197:ILE	N	6.64
1	F	156:UNK	C	159:UNK	N	6.27

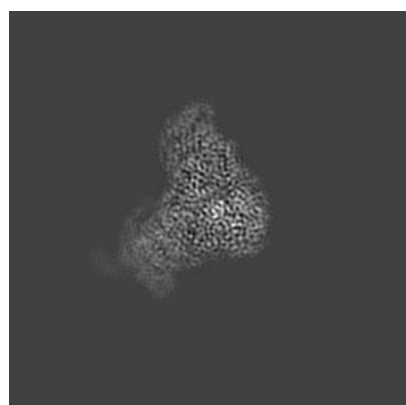
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-0641. These allow visual inspection of the internal detail of the map and identification of artifacts.

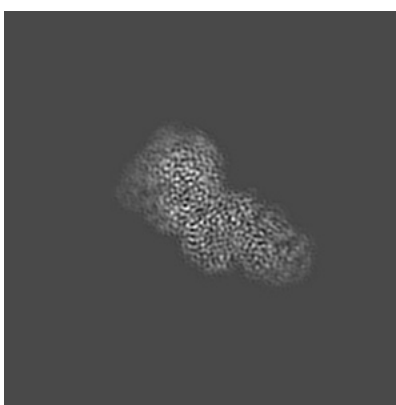
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

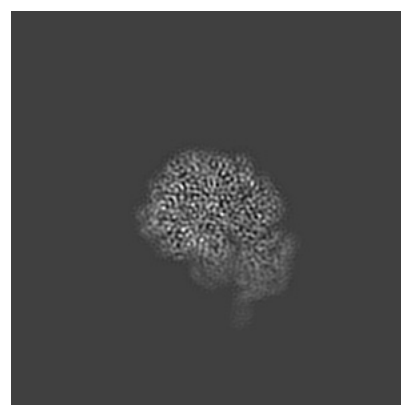
6.1.1 Primary map



X



Y

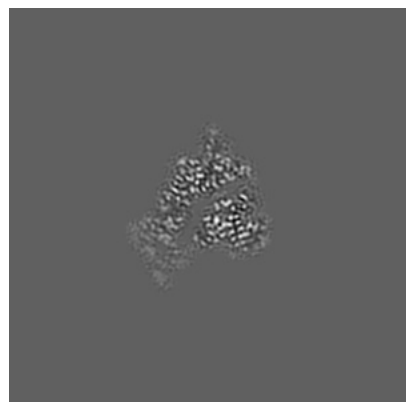


Z

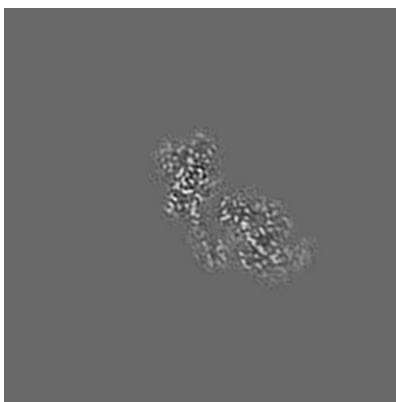
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

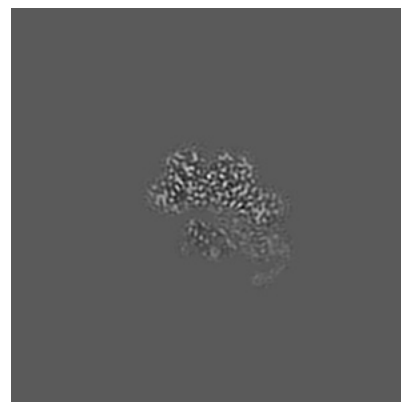
6.2.1 Primary map



X Index: 128



Y Index: 128

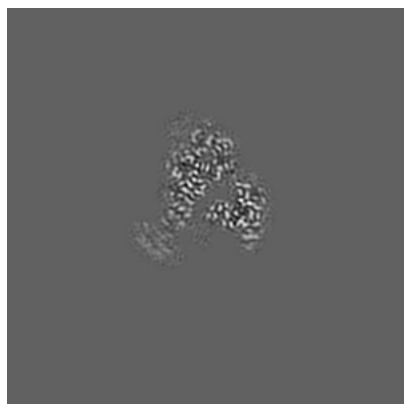


Z Index: 128

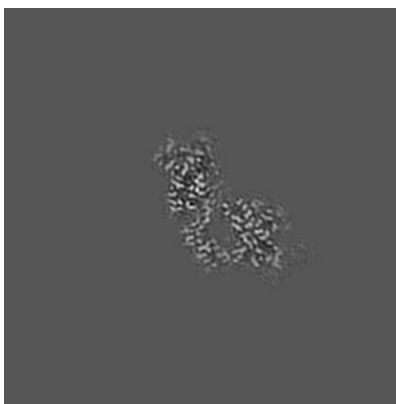
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

6.3.1 Primary map



X Index: 118



Y Index: 132



Z Index: 119

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

6.4 Orthogonal surface views [i](#)

6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.015. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

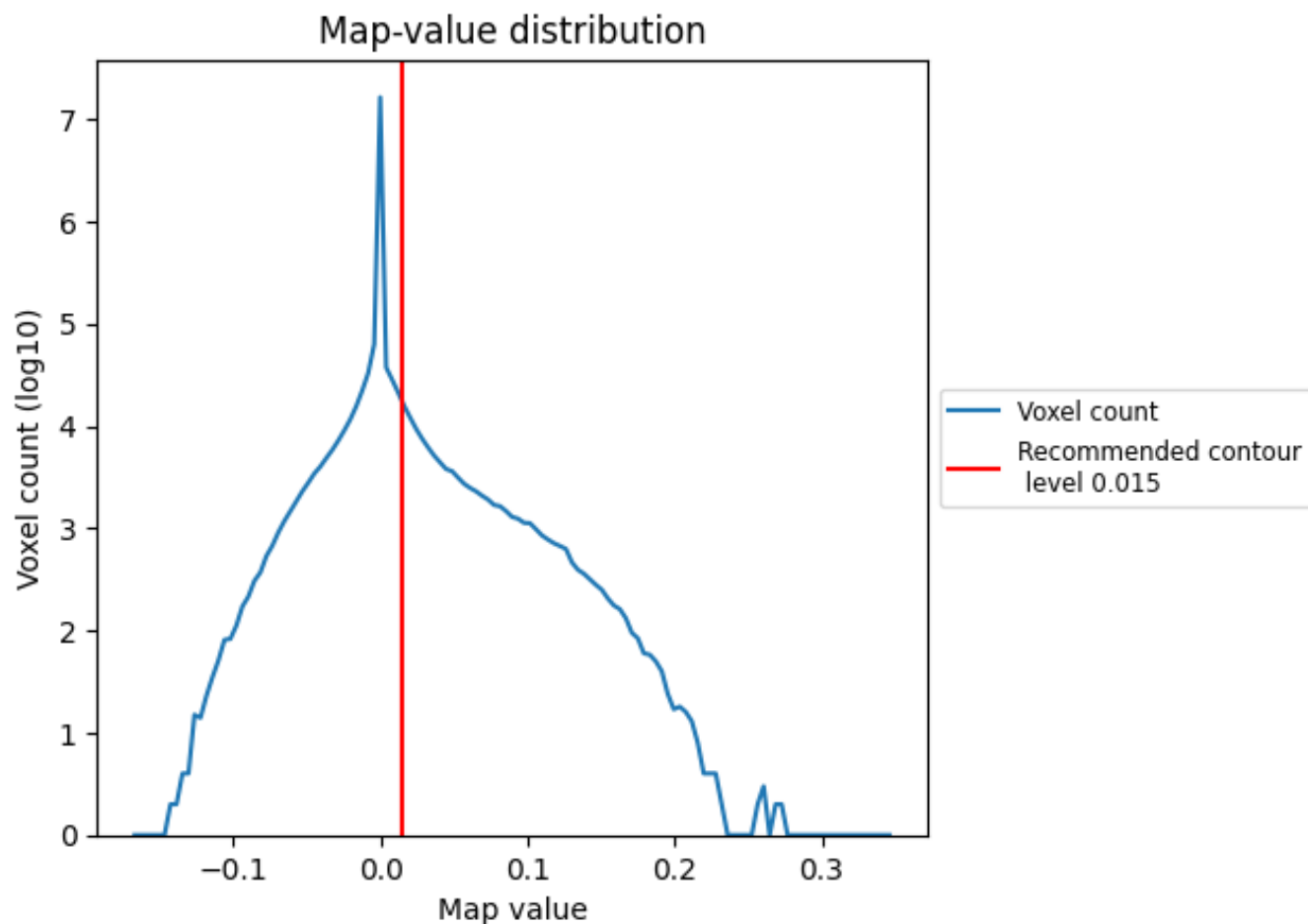
6.5 Mask visualisation

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

7 Map analysis [i](#)

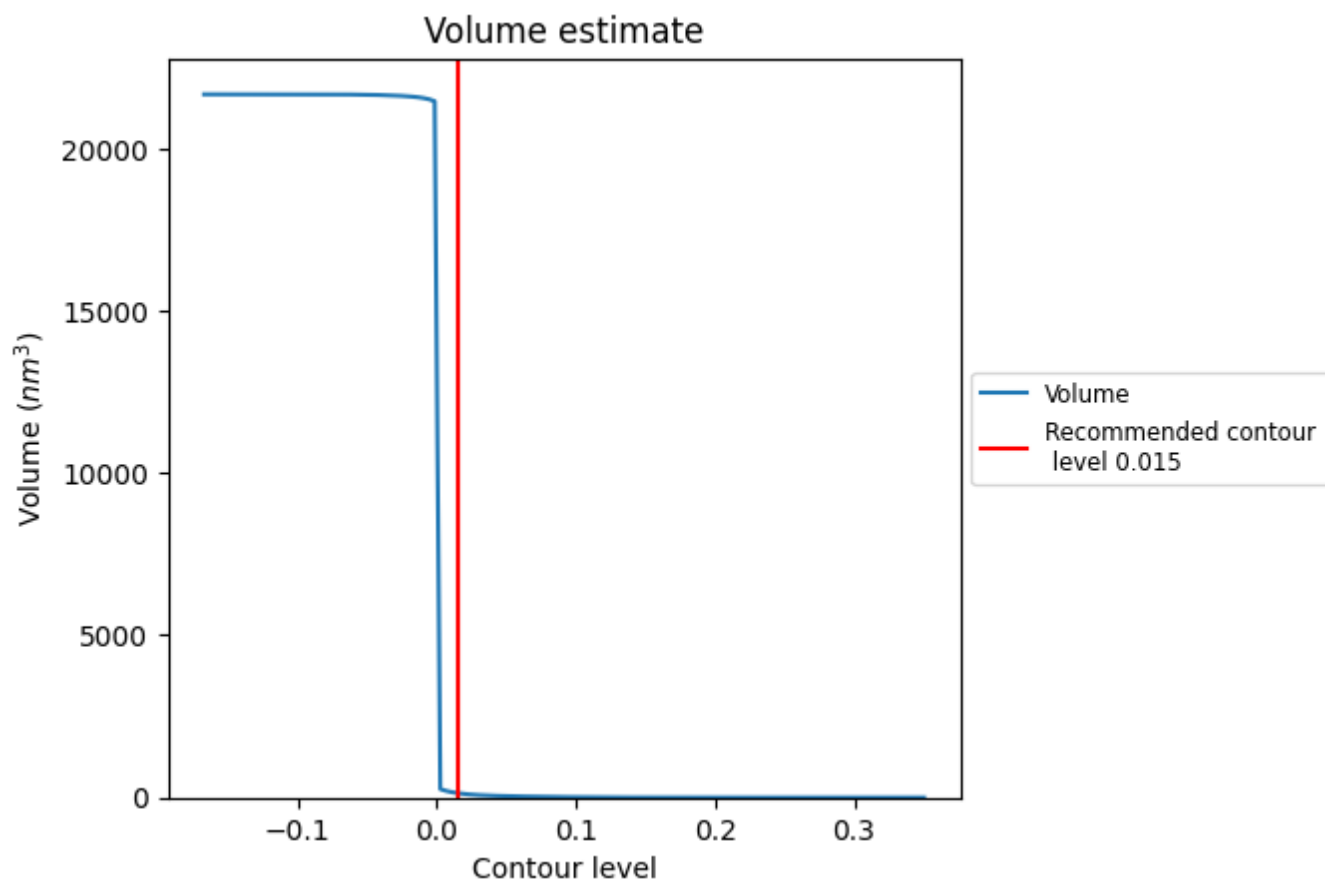
This section contains the results of statistical analysis of the map.

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.

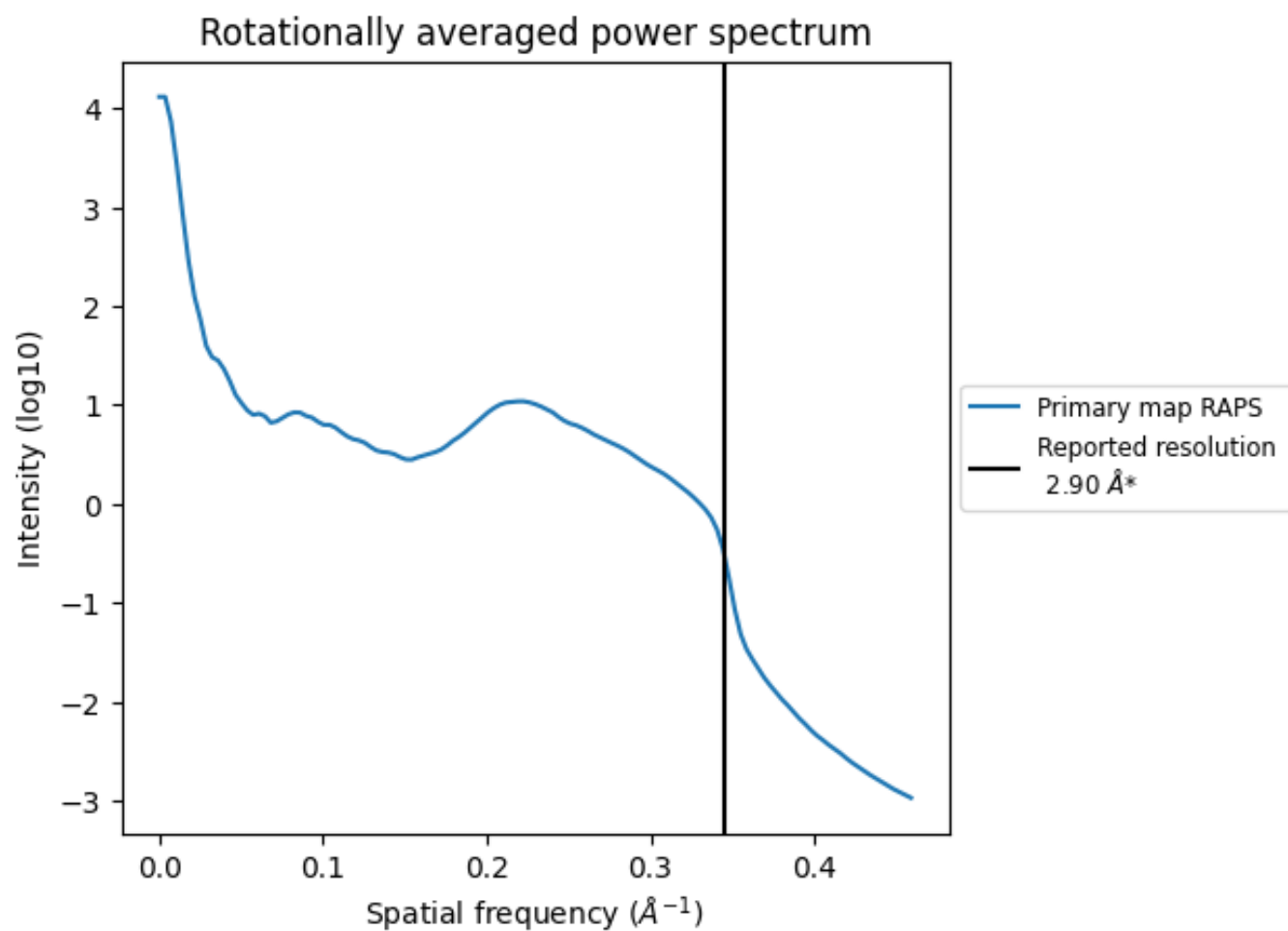
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 136 nm³; this corresponds to an approximate mass of 123 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 ⓘ

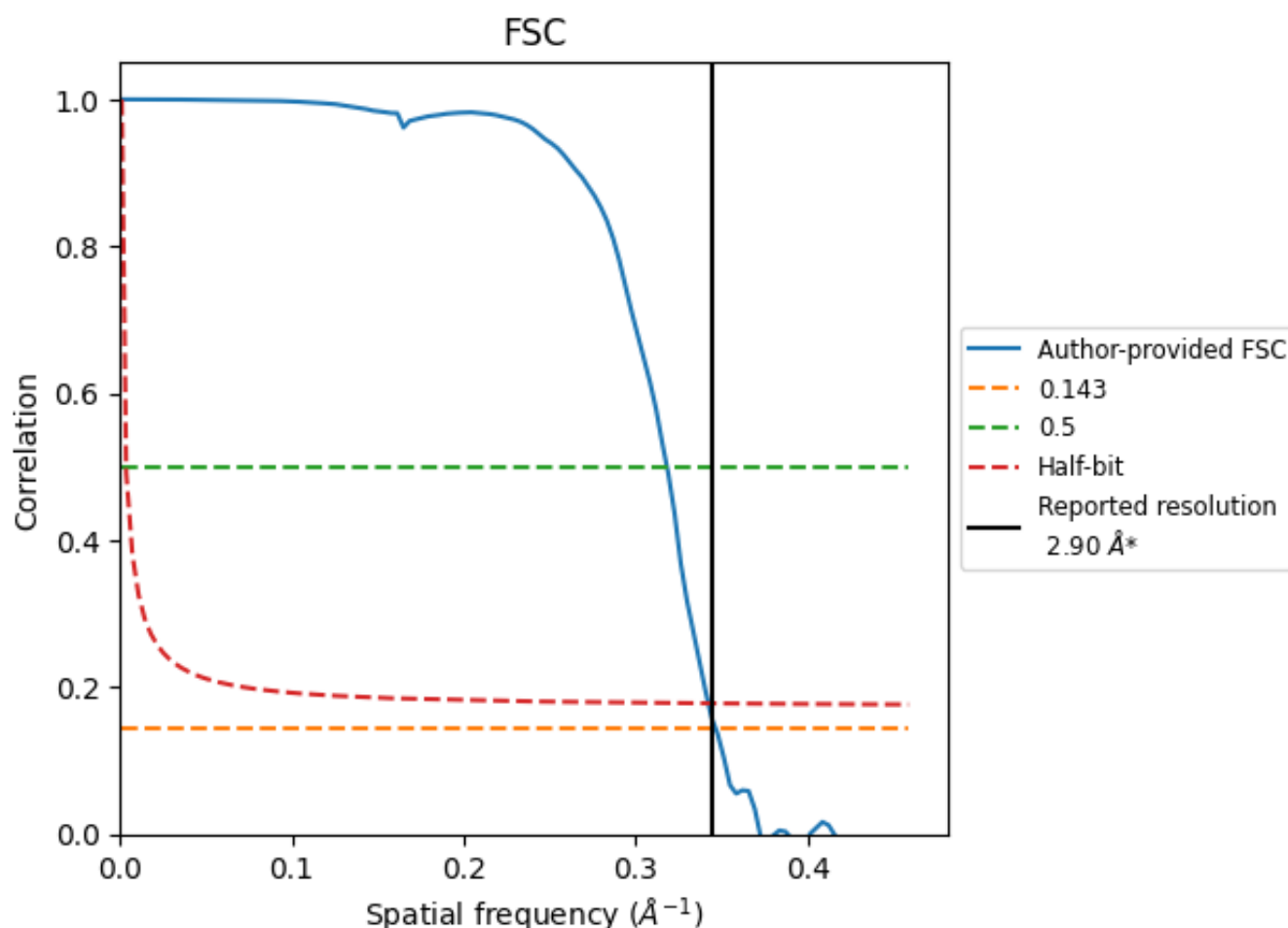


*Reported resolution corresponds to spatial frequency of 0.345 \AA^{-1}

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 0.345 Å⁻¹

8.2 Resolution estimates [i](#)

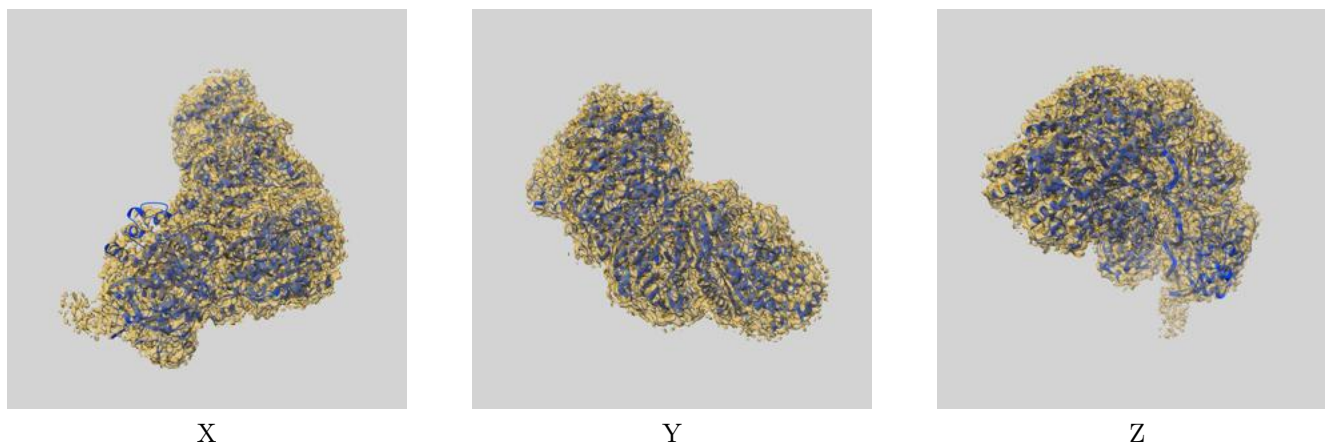
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.90	-	-
Author-provided FSC curve	2.88	3.14	2.92
Unmasked-calculated*	-	-	-

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

9 Map-model fit [i](#)

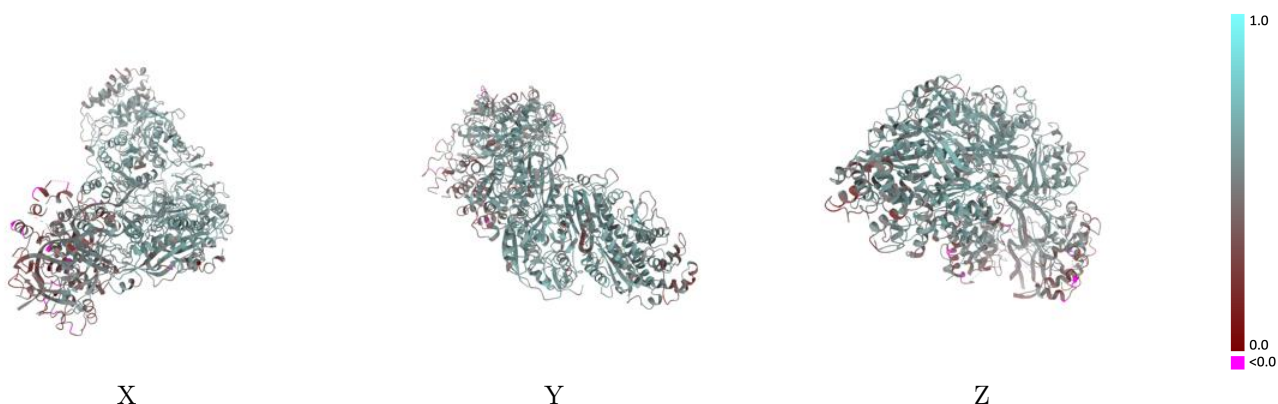
This section contains information regarding the fit between EMDB map EMD-0641 and PDB model 6O7H. Per-residue inclusion information can be found in [section 3](#) on [page 7](#).

9.1 Map-model overlay [i](#)



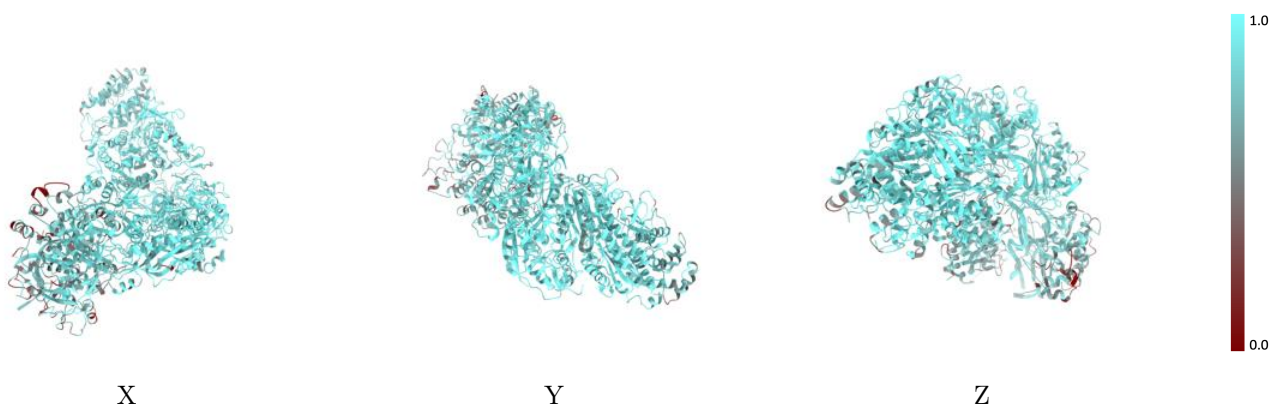
The images above show the 3D surface view of the map at the recommended contour level 0.015 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



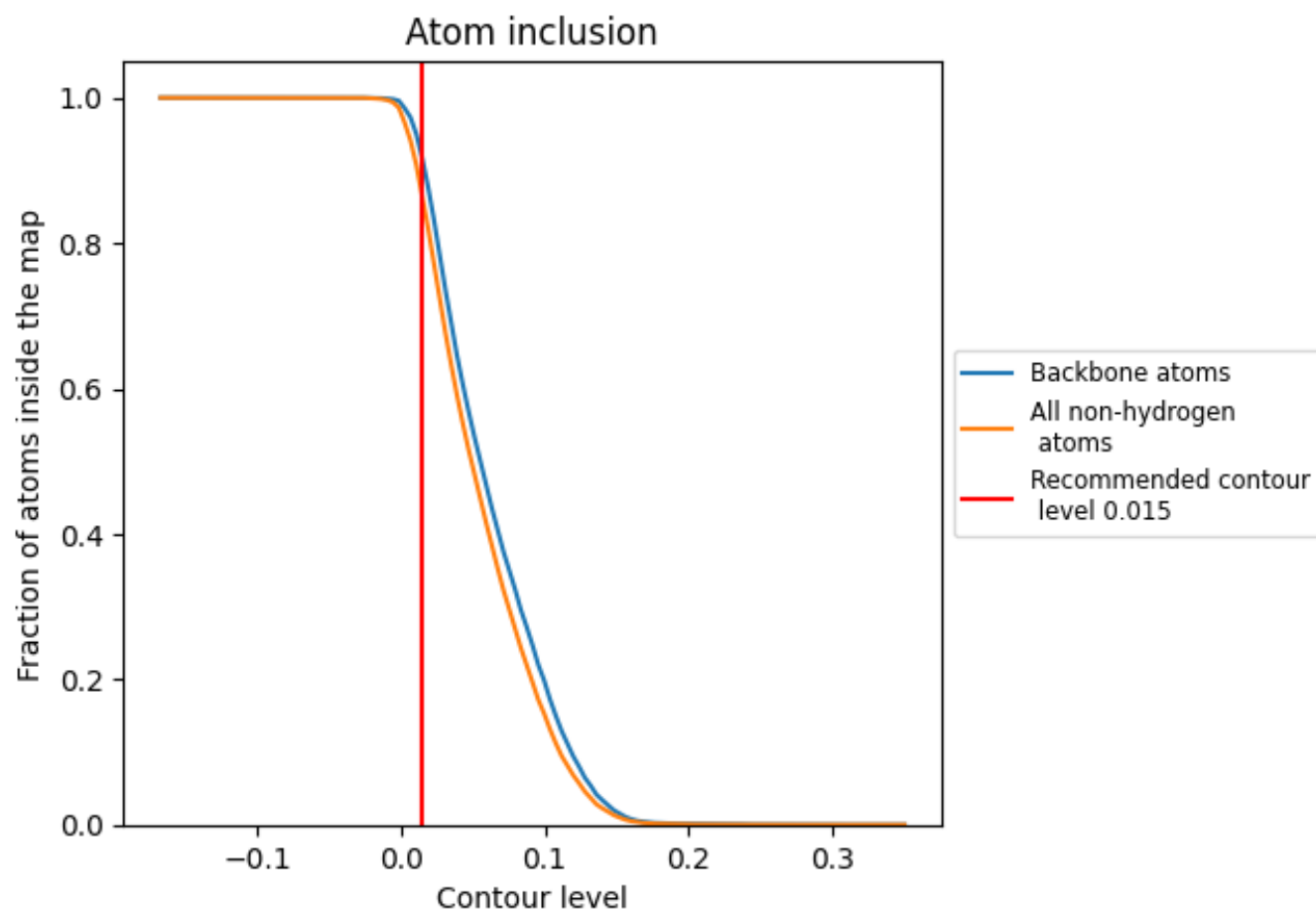
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.015).

9.4 Atom inclusion [i](#)



At the recommended contour level, 92% of all backbone atoms, 86% 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 (0.015) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	<div></div> 0.8628	<div></div> 0.5210
A	<div></div> 0.8957	<div></div> 0.5450
B	<div></div> 0.6931	<div></div> 0.3710
C	<div></div> 0.9171	<div></div> 0.5610
D	<div></div> 0.8945	<div></div> 0.5480
E	<div></div> 0.9292	<div></div> 0.5780
F	<div></div> 0.7039	<div></div> 0.4140
G	<div></div> 0.9525	<div></div> 0.5700
H	<div></div> 0.8480	<div></div> 0.4650
K	<div></div> 0.7955	<div></div> 0.4300

1.0

0.0

<0.0