



wwPDB EM Validation Summary Report ⓘ

May 12, 2025 – 12:22 PM JST

PDB ID : 9J5M / pdb_00009j5m
EMDB ID : EMD-61146
Title : Cryo-EM structure of the ectodomain of BTN2A1-BTN3A1-BTN3A2 in complex with gdTCR
Authors : Zhu, Y.; Gao, W.; Huang, Z.
Deposited on : 2024-08-12
Resolution : 3.94 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.dev118
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

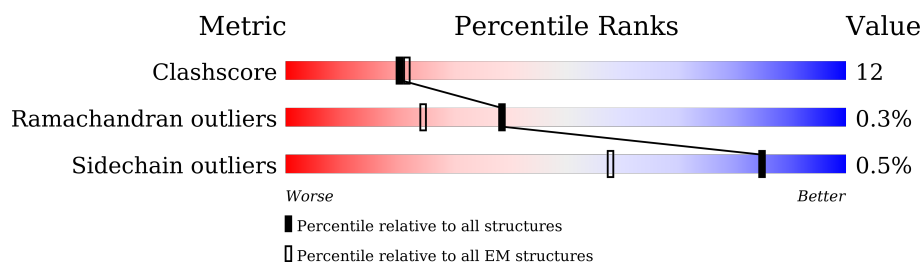
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.94 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	205	<div> <div>8%</div> <div>78%</div> <div>22%</div> </div>
1	H	205	<div> <div>67%</div> <div>30%</div> <div>.</div> </div>
2	B	230	<div> <div>5%</div> <div>70%</div> <div>29%</div> </div>
2	I	230	<div> <div>80%</div> <div>19%</div> </div>
3	C	305	<div> <div>56%</div> <div>14%</div> <div>30%</div> </div>
4	D	484	<div> <div>33%</div> <div>12%</div> <div>56%</div> </div>
5	E	499	<div> <div>35%</div> <div>8%</div> <div>57%</div> </div>
5	G	499	<div> <div>32%</div> <div>10%</div> <div>57%</div> </div>

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 12892 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 d subunit of gdTCR.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	205	Total	C	N	O	S	0	0
			1399	878	244	271	6		
1	H	205	Total	C	N	O	S	0	0
			1585	1006	262	309	8		

- Molecule 2 is a protein called g subunit of gdTCR.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	230	Total	C	N	O	S	0	0
			1732	1108	279	339	6		
2	I	229	Total	C	N	O	S	0	0
			1799	1146	301	346	6		

- Molecule 3 is a protein called Butyrophilin subfamily 3 member A2.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C	215	Total	C	N	O	S	0	0
			1579	1000	269	303	7		

- Molecule 4 is a protein called Butyrophilin subfamily 3 member A1.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	D	215	Total	C	N	O	S	0	0
			1607	1010	274	315	8		

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
D	427	THR	PRO	variant	UNP O00481

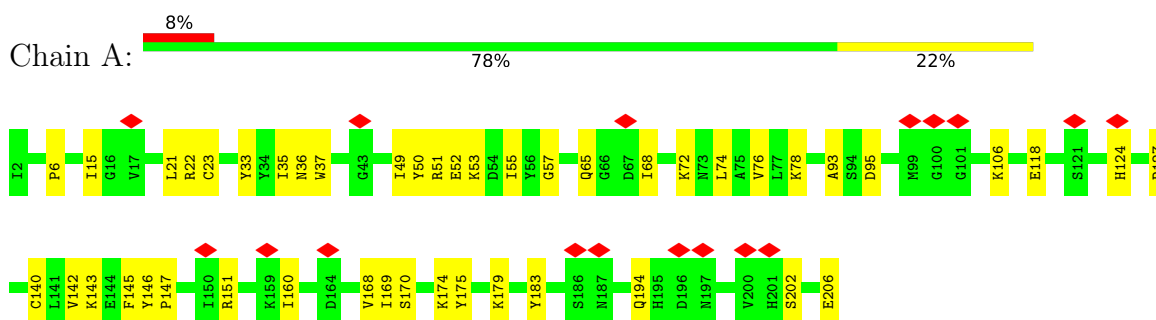
- Molecule 5 is a protein called Butyrophilin subfamily 2 member A1.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	E	215	Total	C	N	O	S	0	0
			1628	1031	284	302	11		
5	G	214	Total	C	N	O	S	0	0
			1563	989	271	293	10		

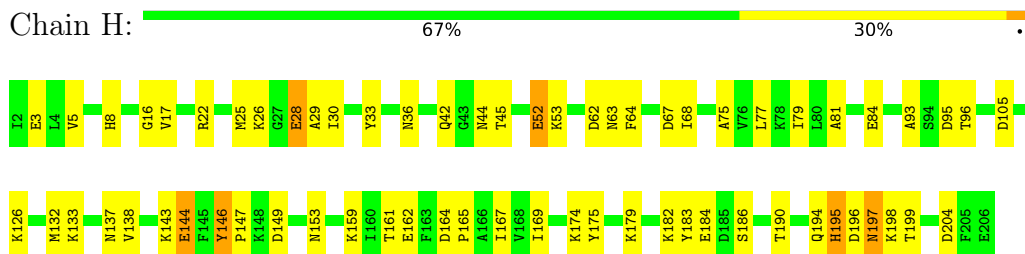
3 Residue-property plots

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.

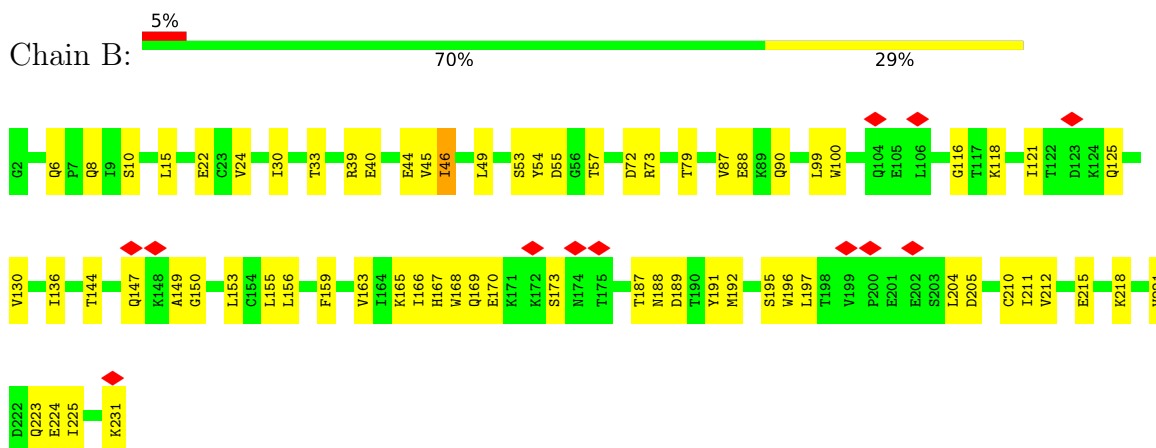
- Molecule 1: d subunit of gdTCR




- Molecule 1: d subunit of gdTCR

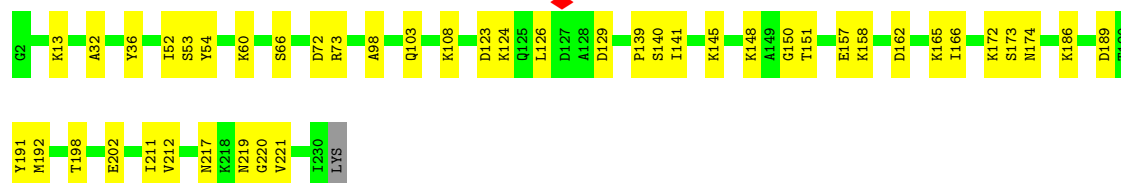


- Molecule 2: g subunit of gdTCR



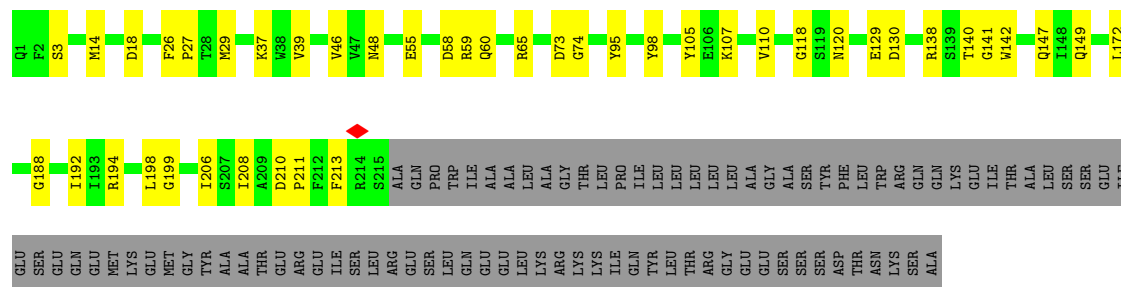
- Molecule 2: g subunit of gdTCR

Chain I:  80% 19%




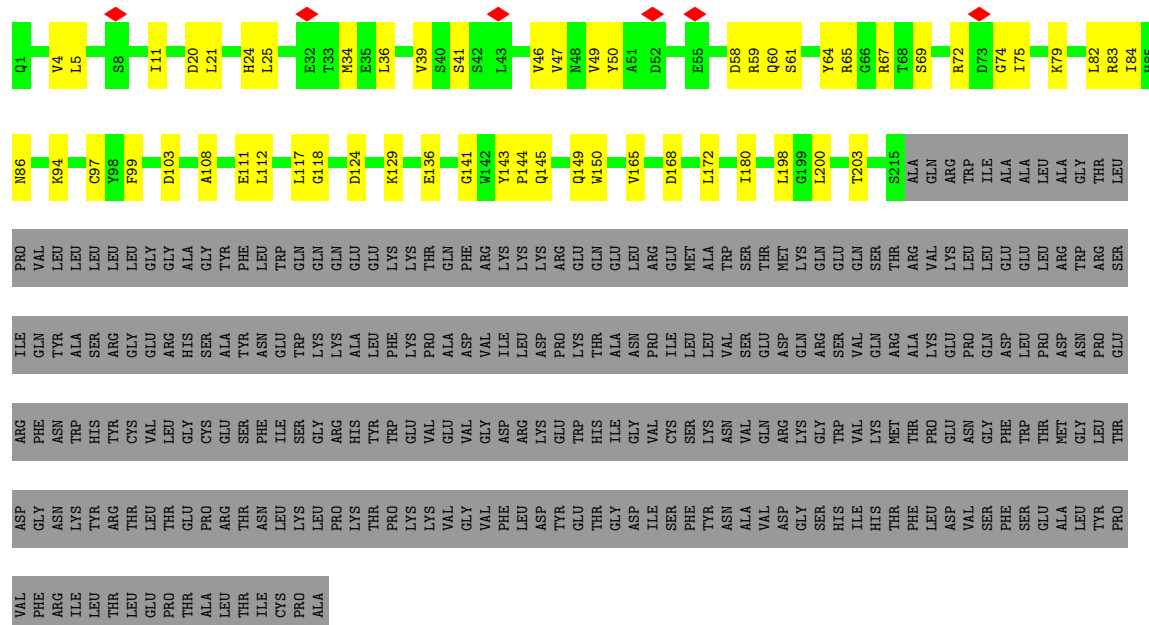
- Molecule 3: Butyrophilin subfamily 3 member A2

Chain C:  56% 14% 30%




- Molecule 4: Butyrophilin subfamily 3 member A1

Chain D:  33% 12% 56%



- Molecule 5: Butyrophilin subfamily 2 member A1

Chain E:  35% 8% 57%

Q1	M189	ARG	VAL	LYS	SER
P7	Q200	ARG	ARG	GLY	HIS
T20	K201	ALA	CYS	ILE	THR
L21	K202	LEU	PRO	THR	THR
N30	I208	LEU	PRO	CYS	PRO
A31	P209	LEU	ARG	ILE	ARG
E35	F212	LEU	HIS	LEU	PRO
E82	M213	GLY	GLN	ASN	GLN
E63	P214	GLY	VAL	GLY	THR
Y64	S215	GLY	THR	THR	THR
R65	VAL	LEU	ASP	LEU	VAL
F70	SER	GLU	PRO	GLU	ASP
I76	PRO	GLU	PRO	GLU	GLU
V80	ALA	GLU	ARG	GLU	GLU
A81	VAL	GLN	GLY	LEU	VAL
I82	LEU	GLY	ASP	GLY	GLY
I83	ILE	PRO	CYS	ILE	ILE
Q100	VAL	VAL	VAL	GLY	GLY
R103	ILE	GLU	GLY	ASP	ASP
L110	MET	ARG	GLU	ILE	ILE
G118	ILE	TRP	SER	CYS	PRO
M125	PRO	ARG	ALA	ALA	ALA
R126	ALA	SER	SER	THR	THR
G127	CYS	GLY	GLY	LYS	LYS
H128	ILE	LEU	LEU	GLY	GLY
G132	TRP	ALA	TYR	SER	SER
I133	ILE	VAL	TRP	GLY	CYS
R134	ASN	VAL	GLU	VAL	VAL
S139	LEU	VAL	VAL	VAL	VAL
W142	GLN	ASP	GLU	PHE	GLY
D152	LYS	PRO	ASN	LEU	LEU
G156	ILE	THR	VAL	GLY	GLY
D170	SER	ASP	VAL	ASP	ASP
G171	GLY	GLY	VAL	VAL	VAL
L172	LEU	PHE	GLY	SER	GLY
F173	LYS	LEU	VAL	THR	THR
M174	GLU	SER	CYS	GLY	GLY
I181	PHE	GLU	THR	ALA	ALA
V186	GLU	ASP	ASP	THR	THR
	THR	ARG	ARG	ARG	ARG

● Molecule 5: Butyrophilin subfamily 2 member A1



GLN	F2	GLN	ASP	VAL	PRO
I3	I3	LYS	PRO	GLU	GLU
V4	V4	LYS	ASP	VAL	VAL
P7	P7	LYS	THR	ILE	THR
T8	T8	ILE	ALA	GLU	ALA
D9	D9	THR	HIS	TRP	TRP
P10	P10	LEU	PRO	GLY	GLY
L25	L25	SER	ASP	VAL	VAL
S26	S26	GLY	PHE	VAL	VAL
P27	P27	LYS	CYS	THR	THR
E35	E35	GLU	ARG	ASN	ASN
V36	V36	ASP	SER	MET	MET
R37	R37	GLU	ARG	ARG	ARG
Q42	Q42	THR	ARG	ASP	ASP
F43	F43	ARG	VAL	SER	SER
S44	S44	GLY	LYS	HIS	HIS
P45	P45	ILE	ARG	ILE	ILE
V49	V49	ALA	ARG	TYR	TYR
Y50	Y50	CYS	VAL	THR	THR
K51	K51	LYS	LEU	CYS	CYS
R54	R54	GLU	PRO	PRO	PRO
E55	E55	LEU	ILE	ARG	ARG
R56	R56	GLY	ALA	PHE	PHE
T57	T57	GLU	THR	TRP	TRP
E58	E58	VAL	THR	VAL	VAL
Q60	Q60	ASP	THR	VAL	VAL
M61	M61	LYS	ASP	VAL	VAL
E62	E62	GLU	ASN	GLU	GLU
E63	E63	CYS	GLU	HIS	HIS
V71	V71	ALA	ARG	LYS	LYS
S72	S72	VAL	PHE	GLY	GLY
S76	S76	ALA	ASP	GLN	GLN
R77	R77	VAL	ASP	VAL	VAL
V83	V83	ILE	VAL	VAL	VAL
I84	I84	GLY	LEU	GLY	GLY
I87	I87	ILE	ARG	ILE	ILE
Q90	Q90	MET	THR	THR	THR
Y98	Y98	ILE	ARG	ARG	ARG
F99	F99	ILE	ALA	ALA	ALA
Q100	Q100	VAL	THR	THR	THR
E101	E101	CYS	PHE	GLY	GLY
G102	G102	LYS	GLY	THR	THR
R103	R103	LEU	LYS	GLY	GLY
S104	S104	ALA	LEU	ALA	ALA
Y105	Y105	THR	THR	THR	THR
D106	D106	VAL	VAL	VAL	VAL
		VAL	VAL	VAL	VAL

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	287533	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 ($e^-/\text{\AA}^2$)	60	Depositor
Minimum defocus (nm)	1500	Depositor
Maximum defocus (nm)	2500	Depositor
Magnification	Not provided	
Image detector	GATAN K2 QUANTUM (4k x 4k)	Depositor
Maximum map value	1.395	Depositor
Minimum map value	-0.435	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.024	Depositor
Recommended contour level	0.26	Depositor
Map size (\AA)	440.0, 440.0, 440.0	wwPDB
Map dimensions	400, 400, 400	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	1.1, 1.1, 1.1	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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	0.13	0/1424	0.37	0/1951
1	H	0.19	0/1620	0.59	1/2196 (0.0%)
2	B	0.14	0/1769	0.38	0/2415
2	I	0.14	0/1838	0.42	0/2494
3	C	0.14	0/1612	0.41	0/2194
4	D	0.13	0/1639	0.37	0/2225
5	E	0.13	0/1664	0.34	0/2261
5	G	0.17	0/1595	0.50	0/2173
All	All	0.15	0/13161	0.43	1/17909 (0.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	H	0	2
5	G	0	2
All	All	0	4

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	52	GLU	CA-CB-CG	5.04	124.17	114.10

There are no chirality outliers.

All (4) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
5	G	26	SER	Peptide
5	G	44	SER	Peptide

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Mol	Chain	Res	Type	Group
1	H	146	TYR	Peptide
1	H	28	GLU	Peptide

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	1399	0	1244	30	0
1	H	1585	0	1542	51	0
2	B	1732	0	1662	47	0
2	I	1799	0	1782	32	0
3	C	1579	0	1521	33	0
4	D	1607	0	1570	42	0
5	E	1628	0	1578	31	0
5	G	1563	0	1488	45	0
All	All	12892	0	12387	303	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 12.

The worst 5 of 303 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)
5:G:51:LYS:HE3	5:G:56:ARG:HH22	1.44	0.81
1:A:22:ARG:HB3	1:A:74:LEU:HD11	1.64	0.79
2:I:139:PRO:HB3	2:I:151:THR:H	1.48	0.78
4:D:124:ASP:HB3	4:D:136:GLU:HB2	1.67	0.77
1:A:65:GLN:HB2	1:A:78:LYS:HB3	1.67	0.77

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	203/205 (99%)	195 (96%)	8 (4%)	0	100	100
1	H	203/205 (99%)	161 (79%)	39 (19%)	3 (2%)	8	38
2	B	228/230 (99%)	216 (95%)	11 (5%)	1 (0%)	30	65
2	I	227/230 (99%)	205 (90%)	22 (10%)	0	100	100
3	C	213/305 (70%)	198 (93%)	15 (7%)	0	100	100
4	D	213/484 (44%)	202 (95%)	11 (5%)	0	100	100
5	E	213/499 (43%)	203 (95%)	10 (5%)	0	100	100
5	G	212/499 (42%)	176 (83%)	35 (16%)	1 (0%)	25	60
All	All	1712/2657 (64%)	1556 (91%)	151 (9%)	5 (0%)	38	70

All (5) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	H	144	GLU
1	H	197	ASN
2	B	188	ASN
5	G	35	GLU
1	H	79	ILE

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	128/180 (71%)	127 (99%)	1 (1%)	79	84

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	H	175/180 (97%)	172 (98%)	3 (2%)	56	72
2	B	186/209 (89%)	184 (99%)	2 (1%)	70	79
2	I	201/209 (96%)	200 (100%)	1 (0%)	86	89
3	C	161/249 (65%)	161 (100%)	0	100	100
4	D	172/412 (42%)	172 (100%)	0	100	100
5	E	172/443 (39%)	172 (100%)	0	100	100
5	G	159/443 (36%)	159 (100%)	0	100	100
All	All	1354/2325 (58%)	1347 (100%)	7 (0%)	85	89

5 of 7 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	H	8	HIS
1	H	190	THR
2	I	172	LYS
1	H	195	HIS
2	B	136	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 6 such sidechains are listed below:

Mol	Chain	Res	Type
5	G	42	GLN
1	H	36	ASN
1	H	201	HIS
2	B	167	HIS
1	A	32	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 [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.

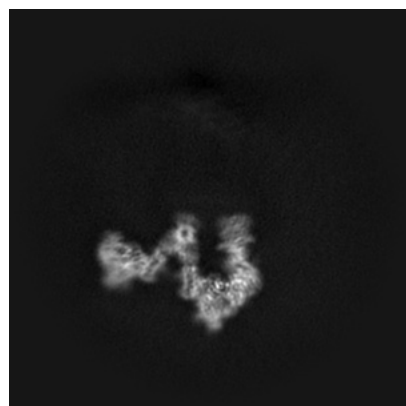
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-61146. These allow visual inspection of the internal detail of the map and identification of artifacts.

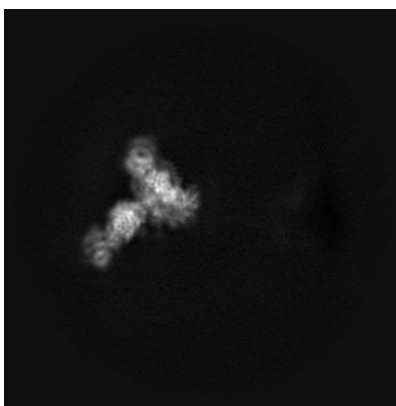
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

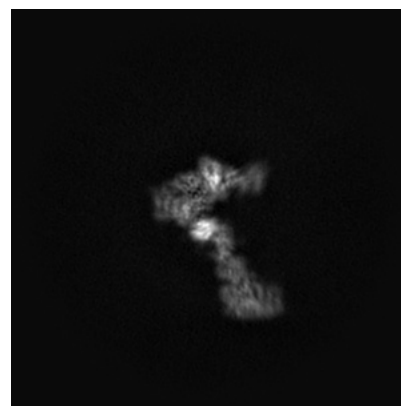
6.1.1 Primary map



X

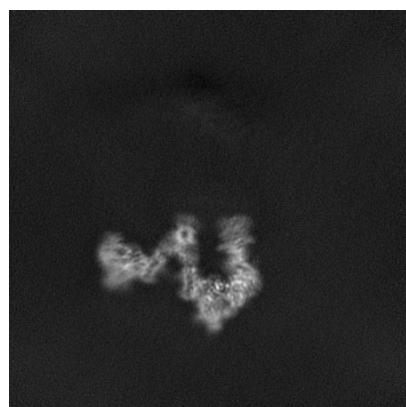


Y

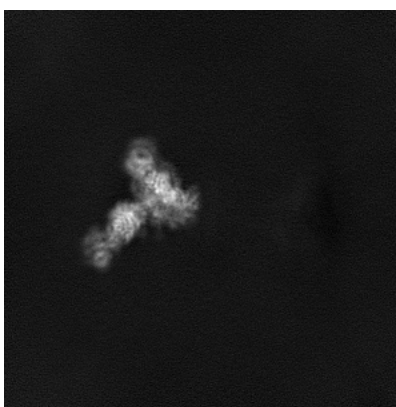


Z

6.1.2 Raw map



X



Y

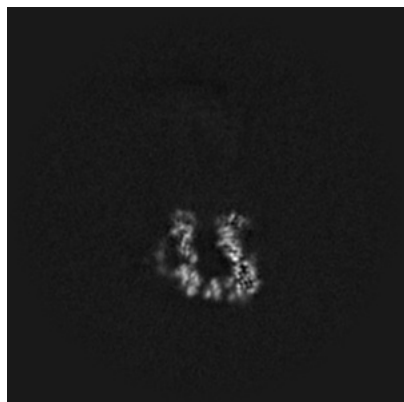


Z

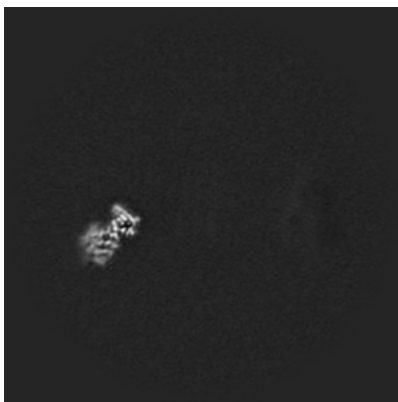
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

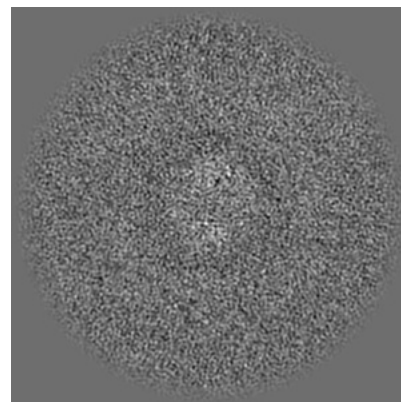
6.2.1 Primary map



X Index: 200

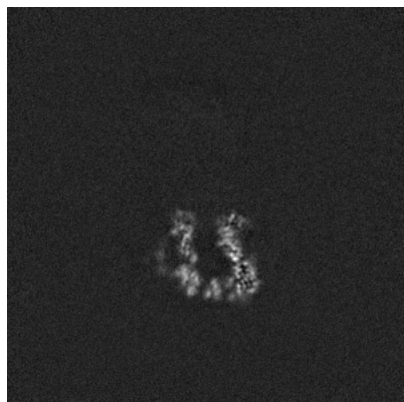


Y Index: 200



Z Index: 200

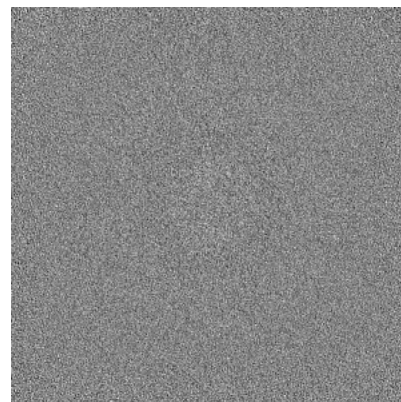
6.2.2 Raw map



X Index: 200



Y Index: 200

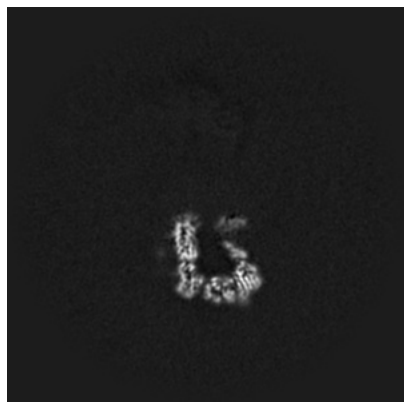


Z Index: 200

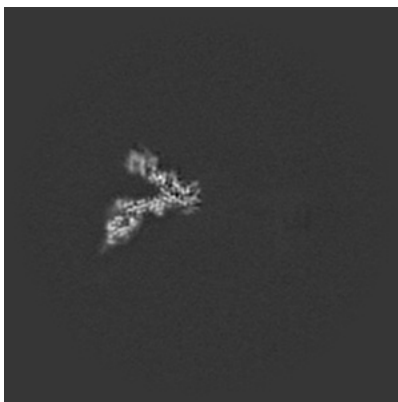
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

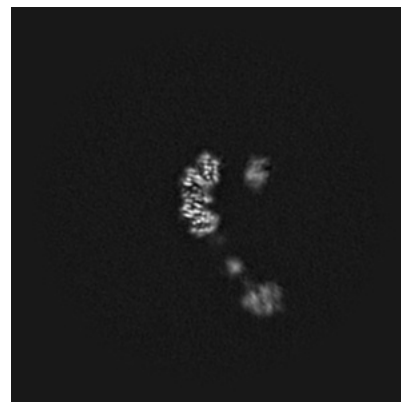
6.3.1 Primary map



X Index: 195

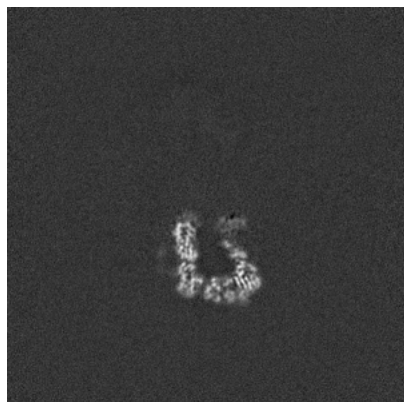


Y Index: 230

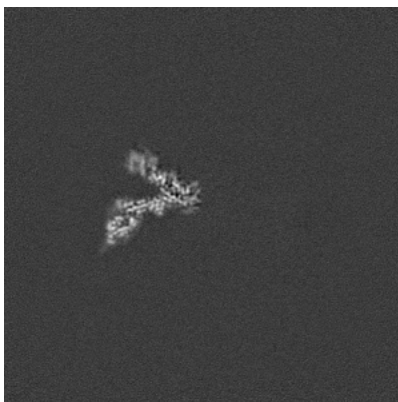


Z Index: 127

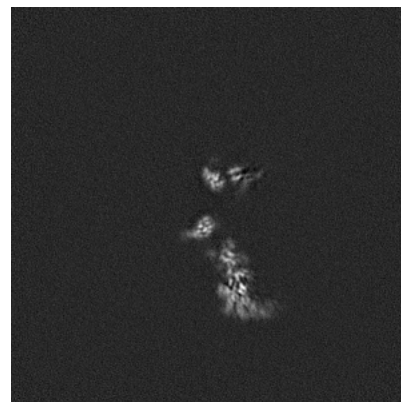
6.3.2 Raw map



X Index: 196



Y Index: 230



Z Index: 153

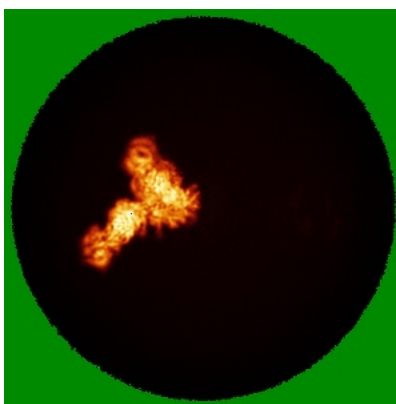
The images above show the largest variance slices of the map in three orthogonal directions.

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

6.4.1 Primary map



X



Y

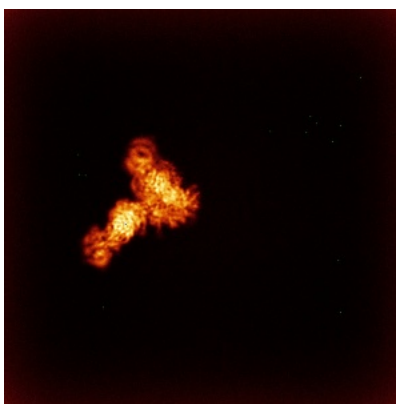


Z

6.4.2 Raw map



X



Y

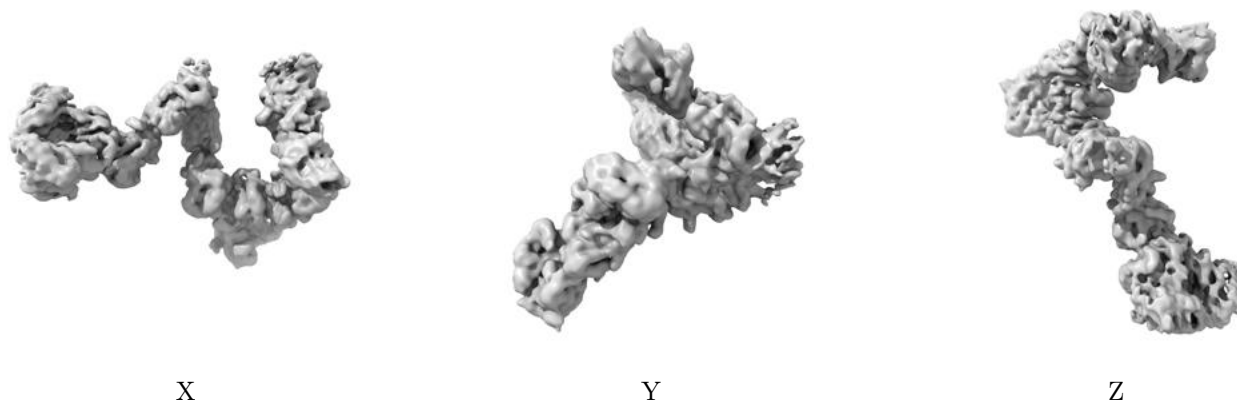


Z

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.

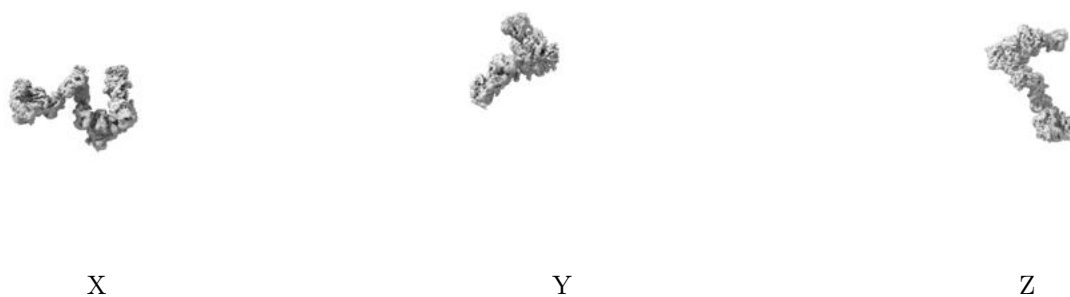
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.26. 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.

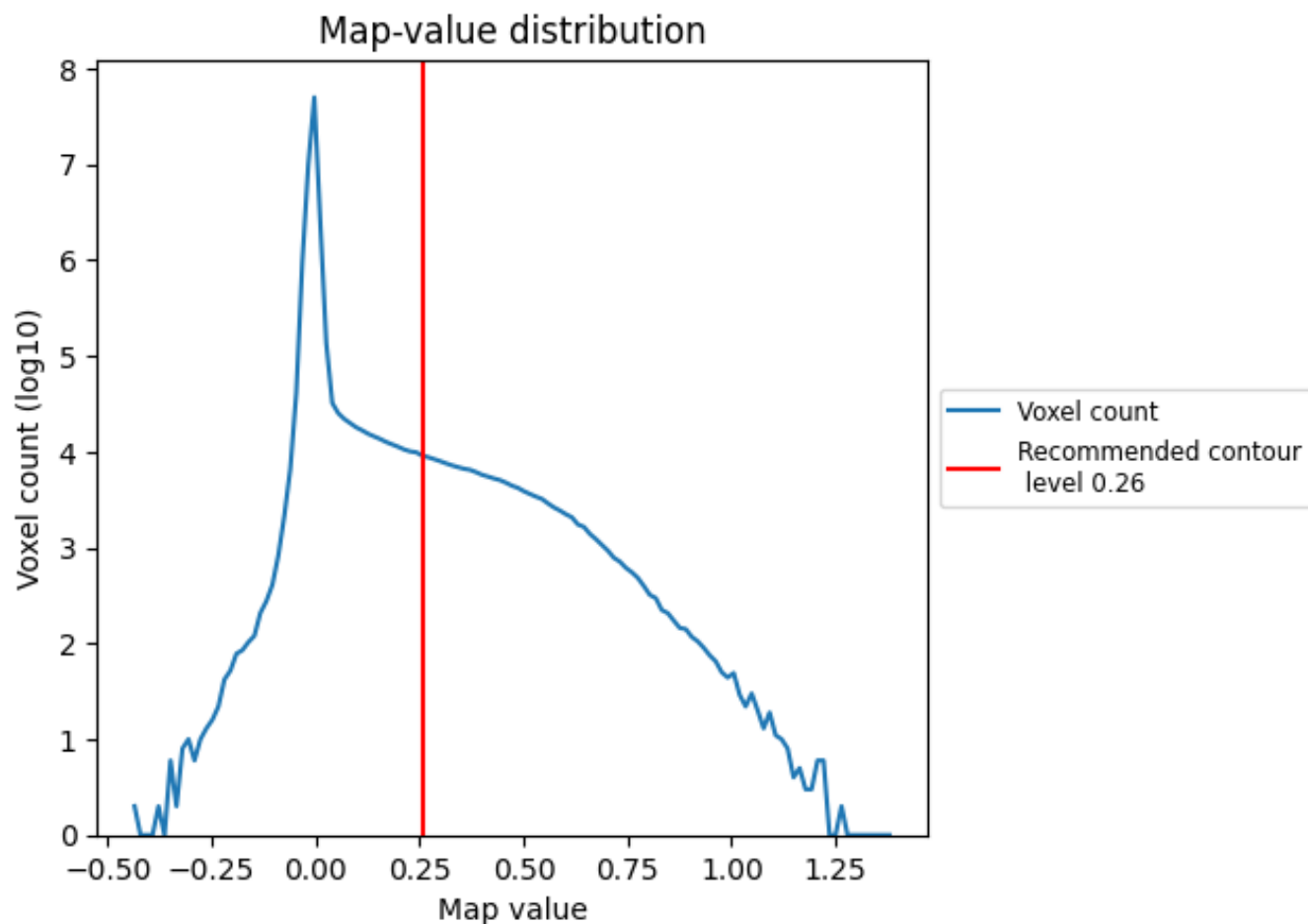
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

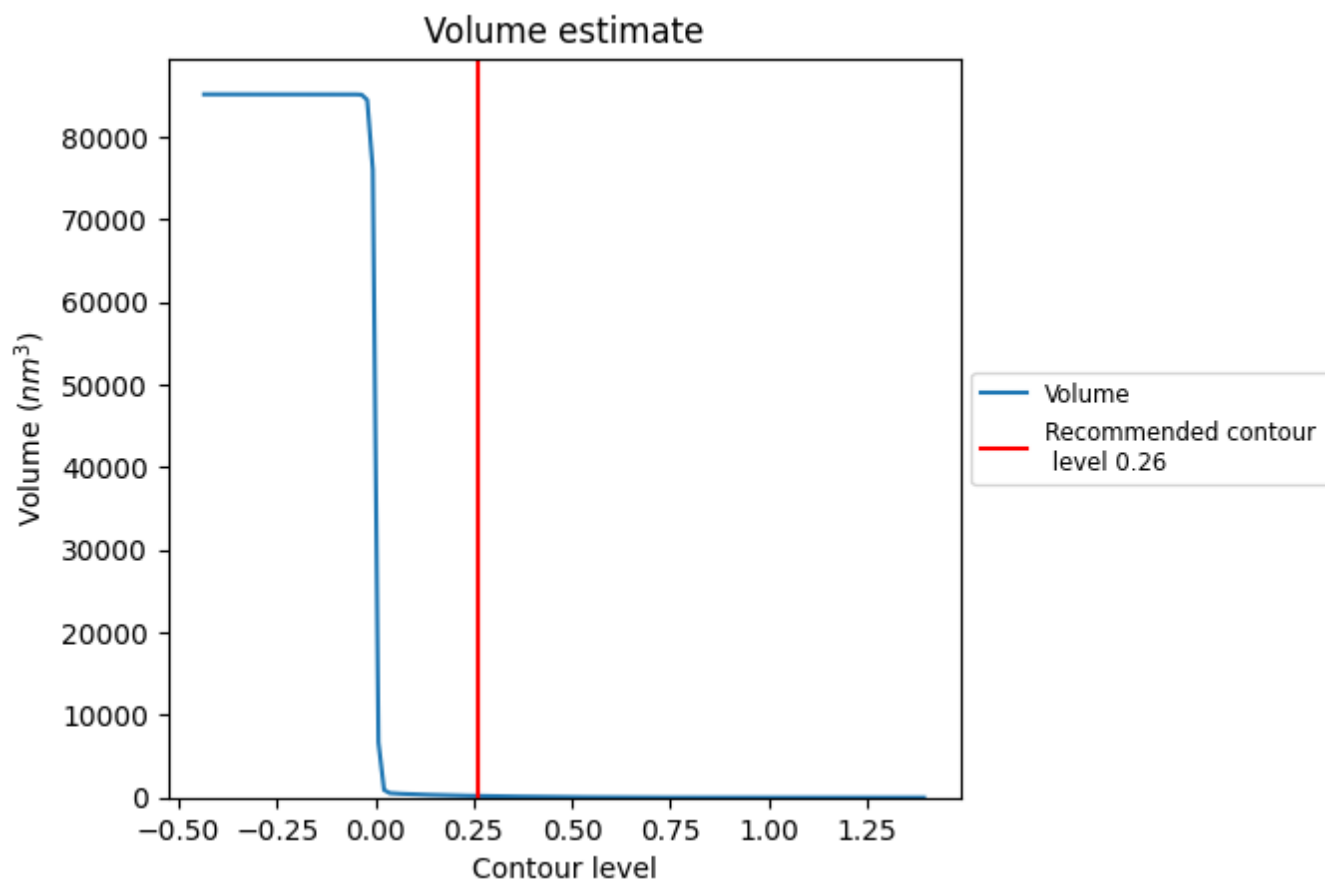
This section contains the results of statistical analysis of the map.

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.

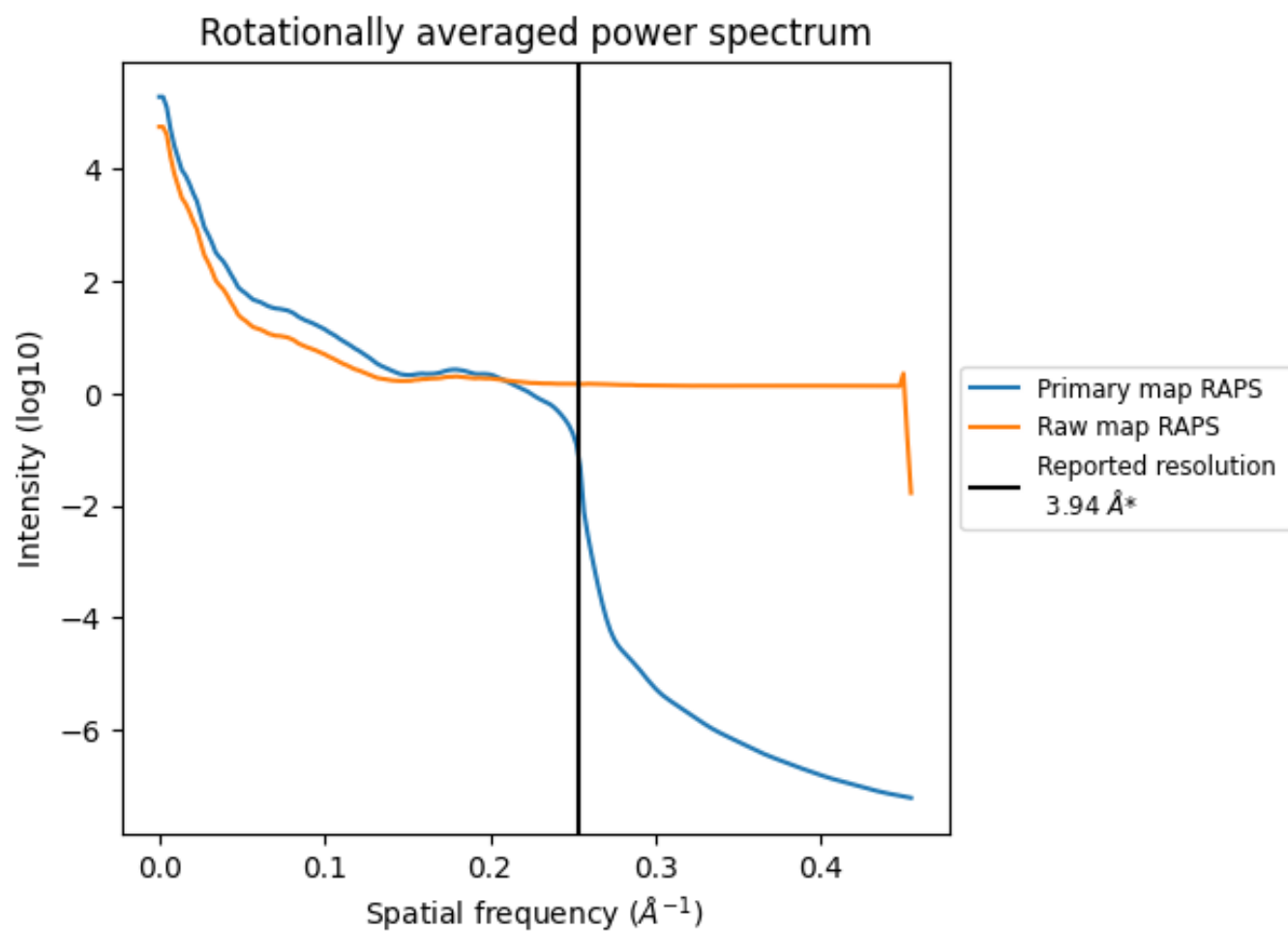
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 197 nm^3 ; this corresponds to an approximate mass of 178 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 ⓘ

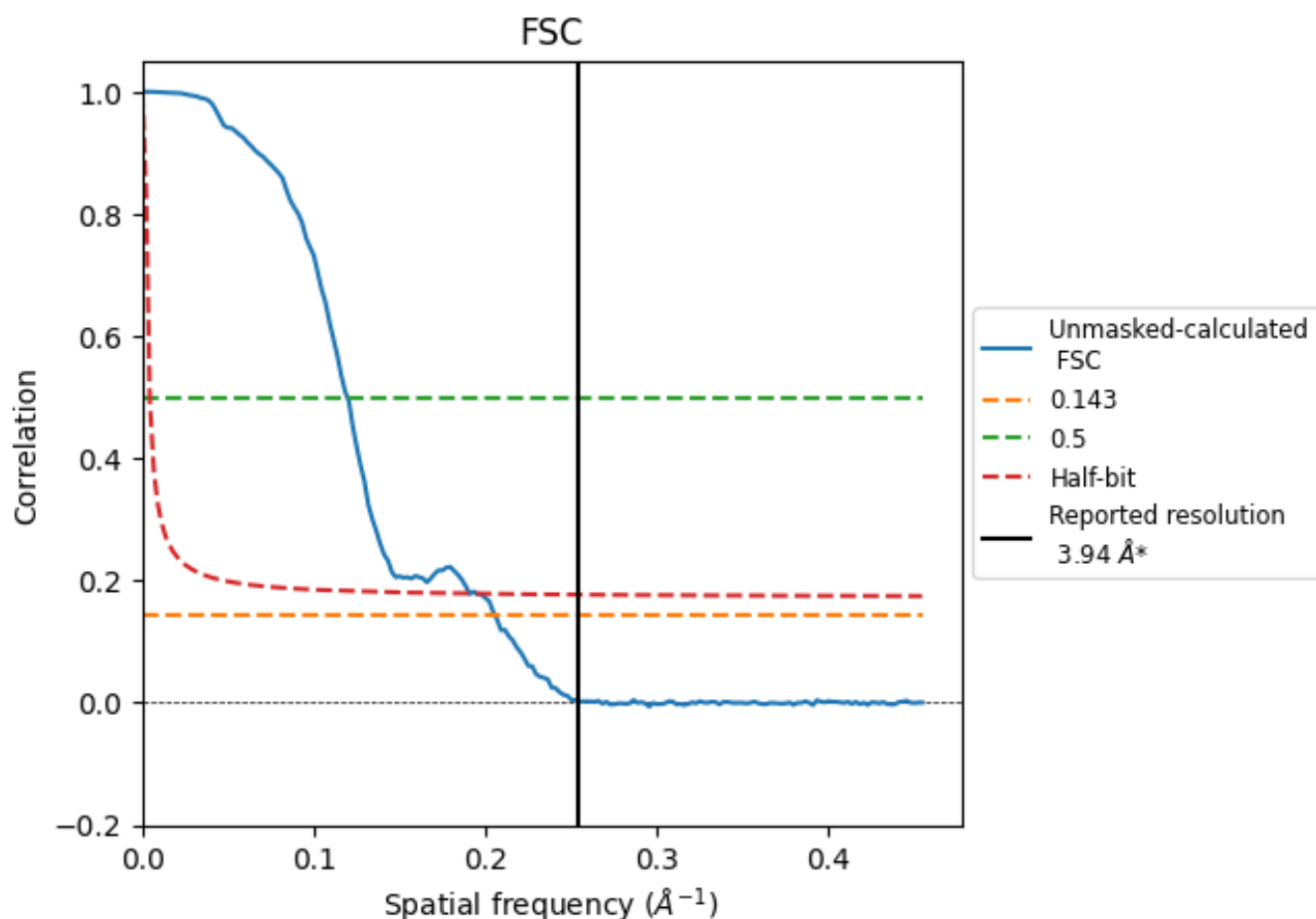


*Reported resolution corresponds to spatial frequency of 0.254 \AA^{-1}

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 0.254 Å⁻¹

8.2 Resolution estimates [i](#)

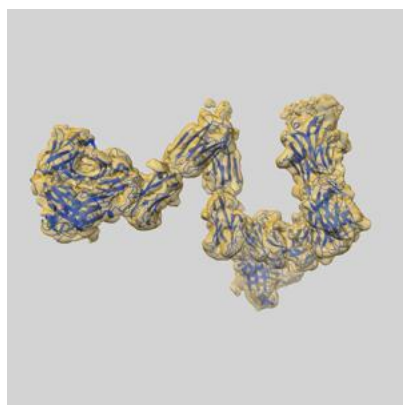
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.94	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	4.86	8.37	5.24

*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 4.86 differs from the reported value 3.94 by more than 10 %

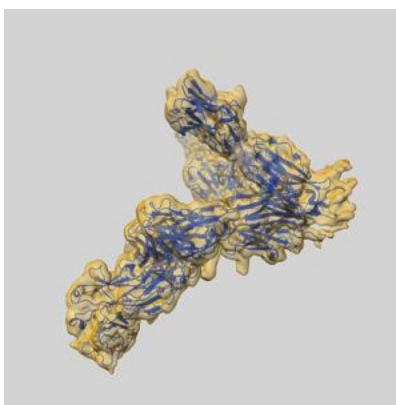
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-61146 and PDB model 9J5M. Per-residue inclusion information can be found in section [3](#) on page [5](#).

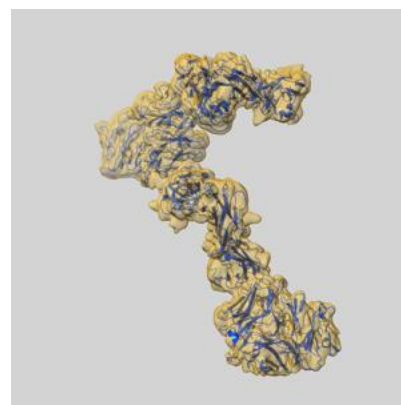
9.1 Map-model overlay [i](#)



X



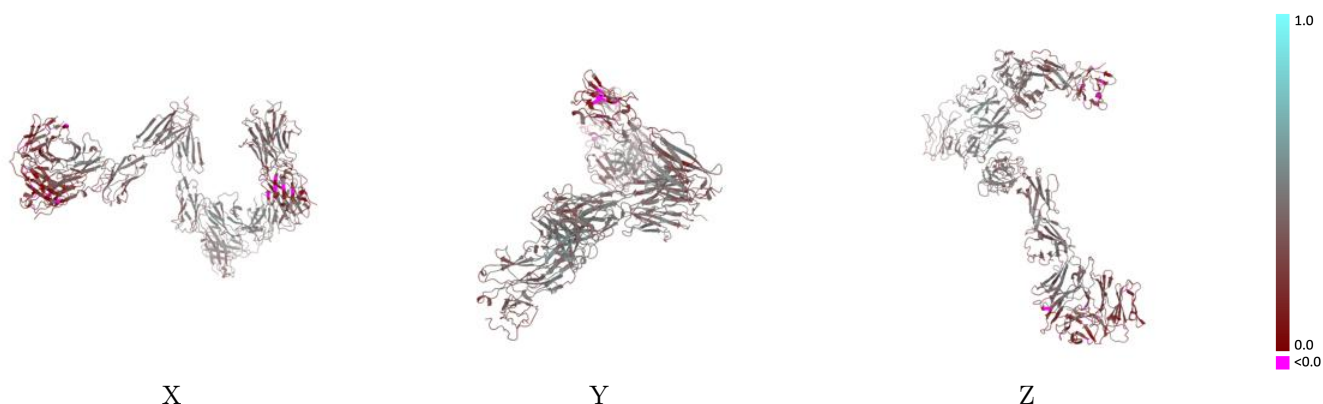
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.26 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](#)



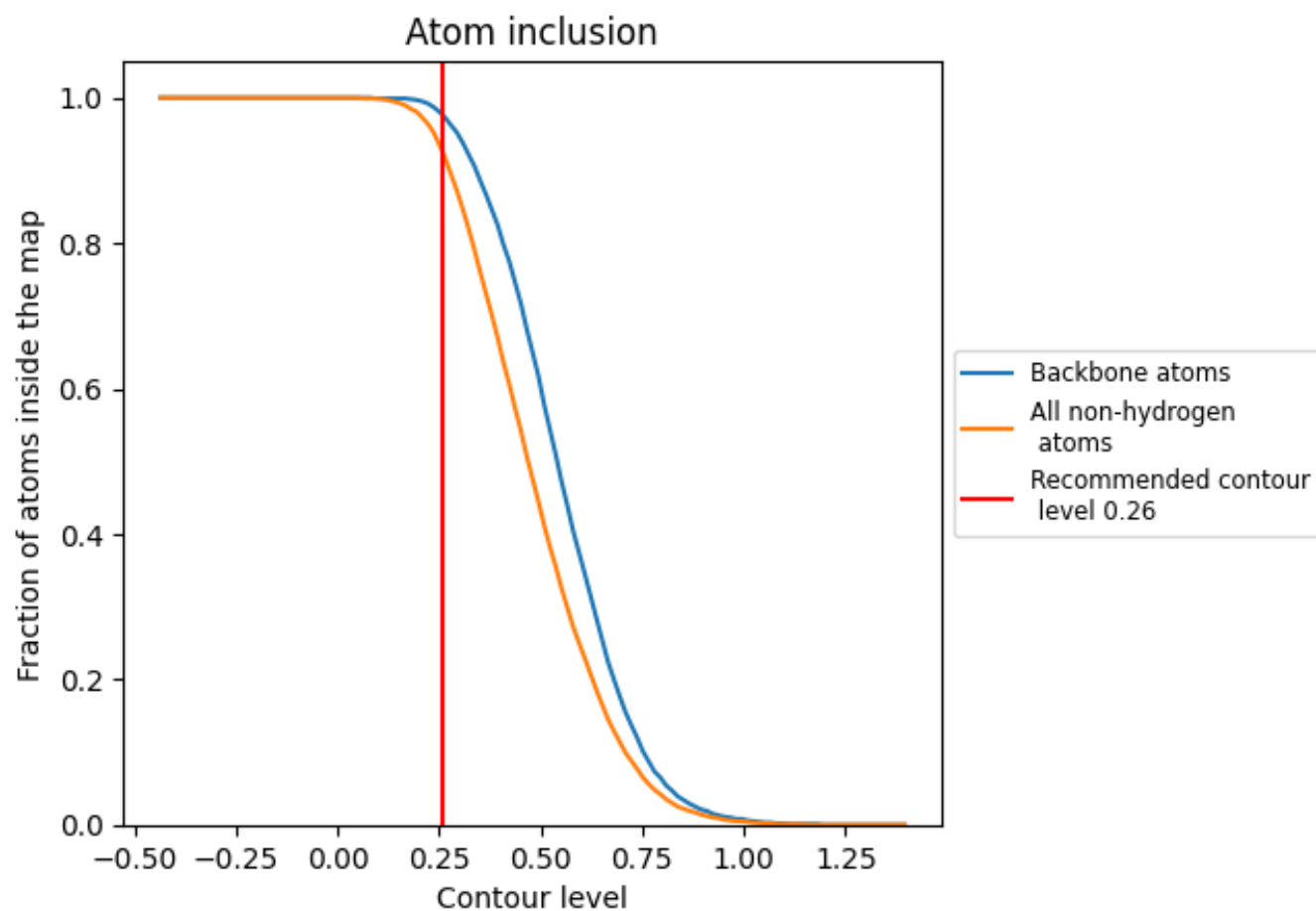
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.26).

9.4 Atom inclusion [i](#)



At the recommended contour level, 98% of all backbone atoms, 92% 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 (0.26) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	<div><div></div></div> 0.9240	<div><div></div></div> 0.3650
A	<div><div></div></div> 0.8180	<div><div></div></div> 0.2450
B	<div><div></div></div> 0.8720	<div><div></div></div> 0.3320
C	<div><div></div></div> 0.9600	<div><div></div></div> 0.4060
D	<div><div></div></div> 0.8950	<div><div></div></div> 0.2950
E	<div><div></div></div> 0.9630	<div><div></div></div> 0.4100
G	<div><div></div></div> 0.9690	<div><div></div></div> 0.3850
H	<div><div></div></div> 0.9560	<div><div></div></div> 0.4010
I	<div><div></div></div> 0.9460	<div><div></div></div> 0.4280

1.0

0.0

<0.0