



wwPDB EM Validation Summary Report ⓘ

Jul 3, 2024 – 09:31 am BST

PDB ID : 6YSZ
EMDB ID : EMD-10911
Title : Cryo-EM structure of T7 bacteriophage DNA translocation gp15 core protein intermediate assembly
Authors : Perez-Ruiz, M.; Pulido-Cid, M.; Luque-Ortega, J.R.; Cuervo, A.; Carrascosa, J.L.
Deposited on : 2020-04-23
Resolution : 3.60 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.dev92
MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.37.1

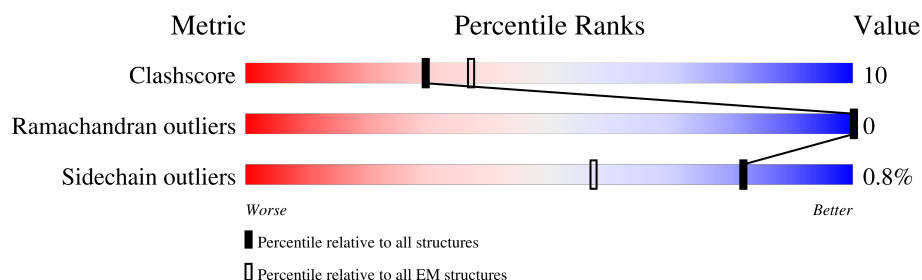
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.60 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

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	782	
1	B	782	
1	C	782	
1	D	782	
1	E	782	
1	F	782	

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 15192 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 Internal virion protein gp15.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	316	Total	C	N	O	S	0	0
			2532	1558	457	507	10		
1	B	316	Total	C	N	O	S	0	0
			2532	1558	457	507	10		
1	C	316	Total	C	N	O	S	0	0
			2532	1558	457	507	10		
1	D	316	Total	C	N	O	S	0	0
			2532	1558	457	507	10		
1	E	316	Total	C	N	O	S	0	0
			2532	1558	457	507	10		
1	F	316	Total	C	N	O	S	0	0
			2532	1558	457	507	10		

There are 210 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-34	MET	-	initiating methionine	UNP P03725
A	-33	ARG	-	expression tag	UNP P03725
A	-32	GLY	-	expression tag	UNP P03725
A	-31	SER	-	expression tag	UNP P03725
A	-30	HIS	-	expression tag	UNP P03725
A	-29	HIS	-	expression tag	UNP P03725
A	-28	HIS	-	expression tag	UNP P03725
A	-27	HIS	-	expression tag	UNP P03725
A	-26	HIS	-	expression tag	UNP P03725
A	-25	HIS	-	expression tag	UNP P03725
A	-24	GLY	-	expression tag	UNP P03725
A	-23	MET	-	expression tag	UNP P03725
A	-22	ALA	-	expression tag	UNP P03725
A	-21	SER	-	expression tag	UNP P03725
A	-20	MET	-	expression tag	UNP P03725
A	-19	THR	-	expression tag	UNP P03725
A	-18	GLY	-	expression tag	UNP P03725
A	-17	GLY	-	expression tag	UNP P03725

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Chain	Residue	Modelled	Actual	Comment	Reference
A	-16	GLN	-	expression tag	UNP P03725
A	-15	GLN	-	expression tag	UNP P03725
A	-14	MET	-	expression tag	UNP P03725
A	-13	GLY	-	expression tag	UNP P03725
A	-12	ARG	-	expression tag	UNP P03725
A	-11	ASP	-	expression tag	UNP P03725
A	-10	LEU	-	expression tag	UNP P03725
A	-9	TYR	-	expression tag	UNP P03725
A	-8	ASP	-	expression tag	UNP P03725
A	-7	ASP	-	expression tag	UNP P03725
A	-6	ASP	-	expression tag	UNP P03725
A	-5	ASP	-	expression tag	UNP P03725
A	-4	LYS	-	expression tag	UNP P03725
A	-3	ASP	-	expression tag	UNP P03725
A	-2	PRO	-	expression tag	UNP P03725
A	-1	SER	-	expression tag	UNP P03725
A	0	SER	-	expression tag	UNP P03725
B	-34	MET	-	initiating methionine	UNP P03725
B	-33	ARG	-	expression tag	UNP P03725
B	-32	GLY	-	expression tag	UNP P03725
B	-31	SER	-	expression tag	UNP P03725
B	-30	HIS	-	expression tag	UNP P03725
B	-29	HIS	-	expression tag	UNP P03725
B	-28	HIS	-	expression tag	UNP P03725
B	-27	HIS	-	expression tag	UNP P03725
B	-26	HIS	-	expression tag	UNP P03725
B	-25	HIS	-	expression tag	UNP P03725
B	-24	GLY	-	expression tag	UNP P03725
B	-23	MET	-	expression tag	UNP P03725
B	-22	ALA	-	expression tag	UNP P03725
B	-21	SER	-	expression tag	UNP P03725
B	-20	MET	-	expression tag	UNP P03725
B	-19	THR	-	expression tag	UNP P03725
B	-18	GLY	-	expression tag	UNP P03725
B	-17	GLY	-	expression tag	UNP P03725
B	-16	GLN	-	expression tag	UNP P03725
B	-15	GLN	-	expression tag	UNP P03725
B	-14	MET	-	expression tag	UNP P03725
B	-13	GLY	-	expression tag	UNP P03725
B	-12	ARG	-	expression tag	UNP P03725
B	-11	ASP	-	expression tag	UNP P03725
B	-10	LEU	-	expression tag	UNP P03725

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Chain	Residue	Modelled	Actual	Comment	Reference
B	-9	TYR	-	expression tag	UNP P03725
B	-8	ASP	-	expression tag	UNP P03725
B	-7	ASP	-	expression tag	UNP P03725
B	-6	ASP	-	expression tag	UNP P03725
B	-5	ASP	-	expression tag	UNP P03725
B	-4	LYS	-	expression tag	UNP P03725
B	-3	ASP	-	expression tag	UNP P03725
B	-2	PRO	-	expression tag	UNP P03725
B	-1	SER	-	expression tag	UNP P03725
B	0	SER	-	expression tag	UNP P03725
C	-34	MET	-	initiating methionine	UNP P03725
C	-33	ARG	-	expression tag	UNP P03725
C	-32	GLY	-	expression tag	UNP P03725
C	-31	SER	-	expression tag	UNP P03725
C	-30	HIS	-	expression tag	UNP P03725
C	-29	HIS	-	expression tag	UNP P03725
C	-28	HIS	-	expression tag	UNP P03725
C	-27	HIS	-	expression tag	UNP P03725
C	-26	HIS	-	expression tag	UNP P03725
C	-25	HIS	-	expression tag	UNP P03725
C	-24	GLY	-	expression tag	UNP P03725
C	-23	MET	-	expression tag	UNP P03725
C	-22	ALA	-	expression tag	UNP P03725
C	-21	SER	-	expression tag	UNP P03725
C	-20	MET	-	expression tag	UNP P03725
C	-19	THR	-	expression tag	UNP P03725
C	-18	GLY	-	expression tag	UNP P03725
C	-17	GLY	-	expression tag	UNP P03725
C	-16	GLN	-	expression tag	UNP P03725
C	-15	GLN	-	expression tag	UNP P03725
C	-14	MET	-	expression tag	UNP P03725
C	-13	GLY	-	expression tag	UNP P03725
C	-12	ARG	-	expression tag	UNP P03725
C	-11	ASP	-	expression tag	UNP P03725
C	-10	LEU	-	expression tag	UNP P03725
C	-9	TYR	-	expression tag	UNP P03725
C	-8	ASP	-	expression tag	UNP P03725
C	-7	ASP	-	expression tag	UNP P03725
C	-6	ASP	-	expression tag	UNP P03725
C	-5	ASP	-	expression tag	UNP P03725
C	-4	LYS	-	expression tag	UNP P03725
C	-3	ASP	-	expression tag	UNP P03725

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Chain	Residue	Modelled	Actual	Comment	Reference
C	-2	PRO	-	expression tag	UNP P03725
C	-1	SER	-	expression tag	UNP P03725
C	0	SER	-	expression tag	UNP P03725
D	-34	MET	-	initiating methionine	UNP P03725
D	-33	ARG	-	expression tag	UNP P03725
D	-32	GLY	-	expression tag	UNP P03725
D	-31	SER	-	expression tag	UNP P03725
D	-30	HIS	-	expression tag	UNP P03725
D	-29	HIS	-	expression tag	UNP P03725
D	-28	HIS	-	expression tag	UNP P03725
D	-27	HIS	-	expression tag	UNP P03725
D	-26	HIS	-	expression tag	UNP P03725
D	-25	HIS	-	expression tag	UNP P03725
D	-24	GLY	-	expression tag	UNP P03725
D	-23	MET	-	expression tag	UNP P03725
D	-22	ALA	-	expression tag	UNP P03725
D	-21	SER	-	expression tag	UNP P03725
D	-20	MET	-	expression tag	UNP P03725
D	-19	THR	-	expression tag	UNP P03725
D	-18	GLY	-	expression tag	UNP P03725
D	-17	GLY	-	expression tag	UNP P03725
D	-16	GLN	-	expression tag	UNP P03725
D	-15	GLN	-	expression tag	UNP P03725
D	-14	MET	-	expression tag	UNP P03725
D	-13	GLY	-	expression tag	UNP P03725
D	-12	ARG	-	expression tag	UNP P03725
D	-11	ASP	-	expression tag	UNP P03725
D	-10	LEU	-	expression tag	UNP P03725
D	-9	TYR	-	expression tag	UNP P03725
D	-8	ASP	-	expression tag	UNP P03725
D	-7	ASP	-	expression tag	UNP P03725
D	-6	ASP	-	expression tag	UNP P03725
D	-5	ASP	-	expression tag	UNP P03725
D	-4	LYS	-	expression tag	UNP P03725
D	-3	ASP	-	expression tag	UNP P03725
D	-2	PRO	-	expression tag	UNP P03725
D	-1	SER	-	expression tag	UNP P03725
D	0	SER	-	expression tag	UNP P03725
E	-34	MET	-	initiating methionine	UNP P03725
E	-33	ARG	-	expression tag	UNP P03725
E	-32	GLY	-	expression tag	UNP P03725
E	-31	SER	-	expression tag	UNP P03725

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Chain	Residue	Modelled	Actual	Comment	Reference
E	-30	HIS	-	expression tag	UNP P03725
E	-29	HIS	-	expression tag	UNP P03725
E	-28	HIS	-	expression tag	UNP P03725
E	-27	HIS	-	expression tag	UNP P03725
E	-26	HIS	-	expression tag	UNP P03725
E	-25	HIS	-	expression tag	UNP P03725
E	-24	GLY	-	expression tag	UNP P03725
E	-23	MET	-	expression tag	UNP P03725
E	-22	ALA	-	expression tag	UNP P03725
E	-21	SER	-	expression tag	UNP P03725
E	-20	MET	-	expression tag	UNP P03725
E	-19	THR	-	expression tag	UNP P03725
E	-18	GLY	-	expression tag	UNP P03725
E	-17	GLY	-	expression tag	UNP P03725
E	-16	GLN	-	expression tag	UNP P03725
E	-15	GLN	-	expression tag	UNP P03725
E	-14	MET	-	expression tag	UNP P03725
E	-13	GLY	-	expression tag	UNP P03725
E	-12	ARG	-	expression tag	UNP P03725
E	-11	ASP	-	expression tag	UNP P03725
E	-10	LEU	-	expression tag	UNP P03725
E	-9	TYR	-	expression tag	UNP P03725
E	-8	ASP	-	expression tag	UNP P03725
E	-7	ASP	-	expression tag	UNP P03725
E	-6	ASP	-	expression tag	UNP P03725
E	-5	ASP	-	expression tag	UNP P03725
E	-4	LYS	-	expression tag	UNP P03725
E	-3	ASP	-	expression tag	UNP P03725
E	-2	PRO	-	expression tag	UNP P03725
E	-1	SER	-	expression tag	UNP P03725
E	0	SER	-	expression tag	UNP P03725
F	-34	MET	-	initiating methionine	UNP P03725
F	-33	ARG	-	expression tag	UNP P03725
F	-32	GLY	-	expression tag	UNP P03725
F	-31	SER	-	expression tag	UNP P03725
F	-30	HIS	-	expression tag	UNP P03725
F	-29	HIS	-	expression tag	UNP P03725
F	-28	HIS	-	expression tag	UNP P03725
F	-27	HIS	-	expression tag	UNP P03725
F	-26	HIS	-	expression tag	UNP P03725
F	-25	HIS	-	expression tag	UNP P03725
F	-24	GLY	-	expression tag	UNP P03725

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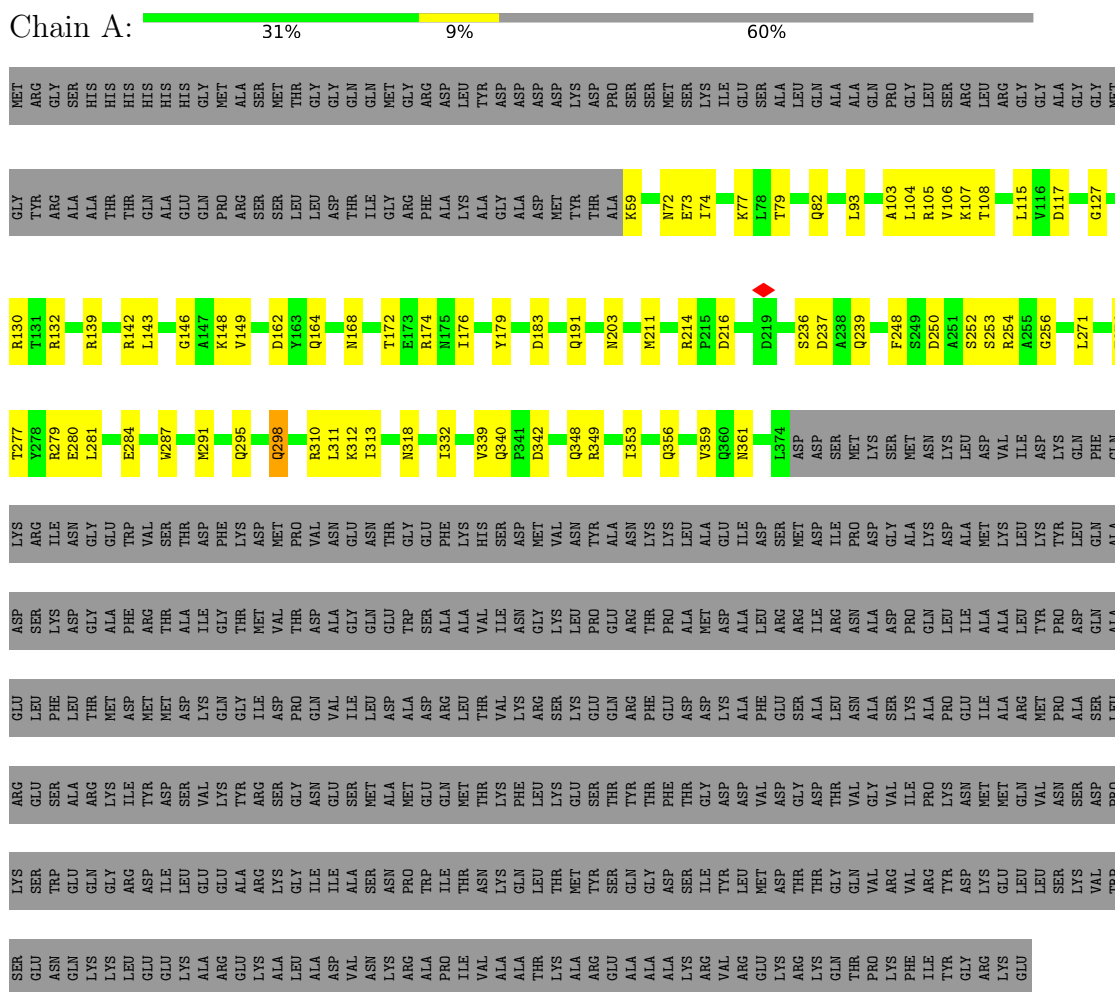
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Chain	Residue	Modelled	Actual	Comment	Reference
F	-23	MET	-	expression tag	UNP P03725
F	-22	ALA	-	expression tag	UNP P03725
F	-21	SER	-	expression tag	UNP P03725
F	-20	MET	-	expression tag	UNP P03725
F	-19	THR	-	expression tag	UNP P03725
F	-18	GLY	-	expression tag	UNP P03725
F	-17	GLY	-	expression tag	UNP P03725
F	-16	GLN	-	expression tag	UNP P03725
F	-15	GLN	-	expression tag	UNP P03725
F	-14	MET	-	expression tag	UNP P03725
F	-13	GLY	-	expression tag	UNP P03725
F	-12	ARG	-	expression tag	UNP P03725
F	-11	ASP	-	expression tag	UNP P03725
F	-10	LEU	-	expression tag	UNP P03725
F	-9	TYR	-	expression tag	UNP P03725
F	-8	ASP	-	expression tag	UNP P03725
F	-7	ASP	-	expression tag	UNP P03725
F	-6	ASP	-	expression tag	UNP P03725
F	-5	ASP	-	expression tag	UNP P03725
F	-4	LYS	-	expression tag	UNP P03725
F	-3	ASP	-	expression tag	UNP P03725
F	-2	PRO	-	expression tag	UNP P03725
F	-1	SER	-	expression tag	UNP P03725
F	0	SER	-	expression tag	UNP P03725

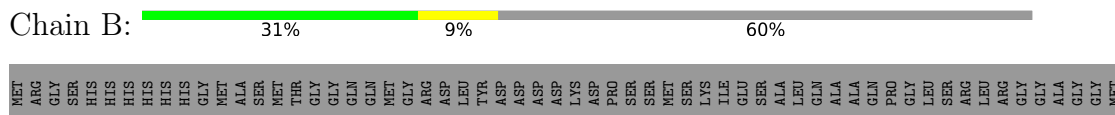
3 Residue-property plots

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: Internal virion protein gp15



• Molecule 1: Internal virion protein gp15



[illegible]

- Molecule 1: Internal virion protein gp15

Chain D: 31% 9% 60%

[illegible]

- Molecule 1: Internal virion protein gp15

Chain E: 31% 9% 60%

R130	Tyr	Arg	Met
R131	Arg	Gly	Arg
R132	Ala	Ser	His
R139	Ala	Thr	His
R142	Thr	His	His
L143	Gln	His	His
G146	Ala	His	His
V149	Gln	Gly	Gly
D162	Arg	Met	Ala
Y163	Ser	Met	Ser
Q164	Ser	Leu	Thr
M168	Leu	Asp	Gly
T172	Thr	Leu	Gln
E173	Ile	Gly	Gln
R174	Gly	Met	Met
H175	Arg	Gly	Gly
L176	Phe	Arg	Arg
Y179	Ala	Asp	Leu
D183	Lys	Leu	Leu
Q191	Ala	Tyr	Tyr
R199	Ala	Asp	Asp
N203	Ala	Asp	Asp
M211	Met	Asp	Asp
R214	Lys	Lys	Lys
D216	Thr	Pro	Pro
D219	Ala	Ser	Ser
S236	K59	Ser	Ser
D237	N72	Met	Met
A238	E73	Ser	Ser
Q239	I74	Leu	Leu
F248	K77	Ile	Ile
S249	L78	Glu	Glu
D250	T79	Ser	Ser
A251	Q82	Ala	Ala
S252	L93	Gln	Gln
S253	A103	Pro	Pro
A255	L104	Gly	Gly
G256	R105	Leu	Leu
L271	V106	Ser	Ser
	A107	Arg	Arg
	T108	Leu	Leu
	L115	Arg	Arg
	V116	Gly	Gly
	D117	Gly	Gly
	G127	Ala	Ala
		Gly	Gly
		Met	Met

T276	T277	Y278	R279	E280	L281	E284	W287	M291	Q295	Q298	R310	L311	K312	I313	N318	M328	I332	V339	Q340	P341	D342	I353	Q356	V359	Q360	N361	L374	ASP	ASP	SER	MET	LYS	SER	MET	ASN	LYS	LEU	VAL	ILE	ASP	TYR		
GLN	PHE	GLN	LYS	ARG	ILE	ASN	GLY	THR	PHE	LYS	ASP	MET	PRO	VAL	ASN	GLY	PHE	LYS	HIS	SER	ASP	MET	LYS	LEU	GLY	ALA	ILE	SER	MET	ASP	ILE	PRO	ASP	GLY	ALA	GLN	LYS	LEU	ILE	ASP	TYR		
LEU	GLN	ALA	ASP	SER	LYS	ASP	PHE	THR	GLY	THR	MET	VAL	THR	ALA	GLY	THR	ALA	VAL	VAL	ILE	ASN	GLY	ARG	PRO	ALA	ASP	ALA	LEU	ARG	ARG	ASN	ALA	GLN	LYS	GLN	LEU	ILE	ALA	ALA	GLN	LEU	ILE	ALA
ASP	GLN	ALA	GLY	PHE	LEU	LEU	MET	MET	LYS	GLN	ILE	ASP	PRO	VAL	ILE	ASP	ARG	LEU	THR	VAL	LYS	SER	ASP	ALA	ASP	LYS	ALA	PHE	SER	ALA	ALA	ASN	LYS	SER	ASP	PRO	LYS	GLN	LEU	ILE	ALA	ALA	
ALA	SER	LEU	ARG	GLY	SER	ALA	ILE	ASP	VAL	TYR	SER	GLY	ASN	GLY	SER	GLN	GLN	THR	THR	VAL	LEU	GLY	THR	GLY	ASP	LYS	ASP	THR	GLY	ASP	THR	VAL	VAL	VAL	GLY	VAL	ILE	PRO	ALA	GLN	LEU	ILE	ALA
SER	PRO	LYS	SER	TRP	GLN	GLY	ARG	TYR	GLY	LYS	ARG	ALA	LYS	ILE	ALA	GLY	ILE	THR	ASN	LYS	LEU	LYS	PHE	LYS	GLY	GLY	ASP	VAL	ASP	GLY	THR	VAL	ARG	VAL	THR	VAL	ARG	VAL	ILE	ARG	TYR	GLY	LEU
LYS	VAL	TRP	SER	GLY	ASN	GLN	LYS	LYS	ALA	ARG	GLY	GLY	LYS	VAL	ASP	ALA	ALA	PRO	VAL	VAL	ALA	THR	LYS	ALA	ALA	VAL	VAL	ARG	GLY	LYS	GLN	THR	PRO	THR	PHE	LYS	VAL	ILE	ARG	TYR	GLY	LEU	

● Molecule 1: Internal virion protein gp15

Chain F: 31% 10% 60%

ARG	LYS	GLU	MET	LYS	GLN	ILE	ALA	ALA	MET	LYS	ASP	ASP	GLY	GLN	LYS	ASP	GLY	GLN	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GL
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4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C6	Depositor
Number of particles used	50980	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TALOS ARCTICA	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	30	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	120000	Depositor
Image detector	FEI FALCON III (4k x 4k)	Depositor
Maximum map value	0.225	Depositor
Minimum map value	-0.004	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.007	Depositor
Recommended contour level	0.0114	Depositor
Map size (Å)	204.0, 204.0, 204.0	wwPDB
Map dimensions	240, 240, 240	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.85, 0.85, 0.85	Depositor

5 Model quality

5.1 Standard geometry

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.29	0/2569	0.40	0/3463
1	B	0.29	0/2569	0.40	0/3463
1	C	0.29	0/2569	0.40	0/3463
1	D	0.29	0/2569	0.40	0/3463
1	E	0.29	0/2569	0.40	0/3463
1	F	0.29	0/2569	0.40	0/3463
All	All	0.29	0/15414	0.40	0/20778

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2532	0	2453	61	0
1	B	2532	0	2453	64	0
1	C	2532	0	2453	62	0
1	D	2532	0	2453	62	0
1	E	2532	0	2453	62	0
1	F	2532	0	2453	66	0
All	All	15192	0	14718	302	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 10.

The worst 5 of 302 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:311:LEU:HD11	1:D:356:GLN:OE1	1.89	0.73
1:A:356:GLN:OE1	1:F:311:LEU:HD11	1.88	0.72
1:E:311:LEU:HD11	1:F:356:GLN:OE1	1.88	0.72
1:B:311:LEU:HD11	1:C:356:GLN:OE1	1.89	0.71
1:D:311:LEU:HD11	1:E:356:GLN:OE1	1.90	0.71

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	314/782 (40%)	305 (97%)	9 (3%)	0	100	100
1	B	314/782 (40%)	305 (97%)	9 (3%)	0	100	100
1	C	314/782 (40%)	305 (97%)	9 (3%)	0	100	100
1	D	314/782 (40%)	305 (97%)	9 (3%)	0	100	100
1	E	314/782 (40%)	305 (97%)	9 (3%)	0	100	100
1	F	314/782 (40%)	305 (97%)	9 (3%)	0	100	100
All	All	1884/4692 (40%)	1830 (97%)	54 (3%)	0	100	100

There are no Ramachandran outliers to report.

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	266/653 (41%)	264 (99%)	2 (1%)	81	91
1	B	266/653 (41%)	264 (99%)	2 (1%)	81	91
1	C	266/653 (41%)	264 (99%)	2 (1%)	81	91
1	D	266/653 (41%)	264 (99%)	2 (1%)	81	91
1	E	266/653 (41%)	264 (99%)	2 (1%)	81	91
1	F	266/653 (41%)	264 (99%)	2 (1%)	81	91
All	All	1596/3918 (41%)	1584 (99%)	12 (1%)	82	91

5 of 12 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	D	298	GLN
1	E	59	LYS
1	F	298	GLN
1	E	298	GLN
1	B	298	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 43 such sidechains are listed below:

Mol	Chain	Res	Type
1	E	203	ASN
1	F	191	GLN
1	E	246	GLN
1	E	318	ASN
1	F	246	GLN

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 monosaccharides 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.

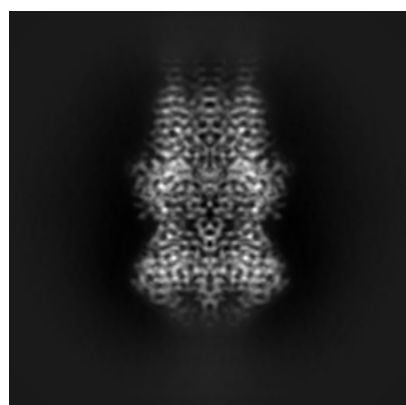
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-10911. These allow visual inspection of the internal detail of the map and identification of artifacts.

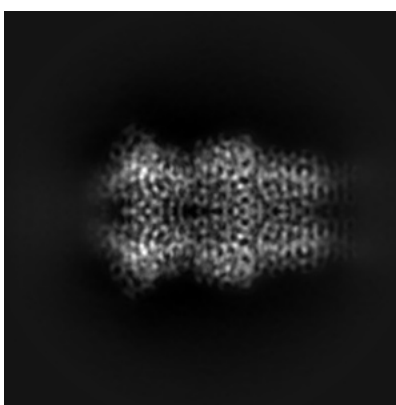
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

6.1.1 Primary map



X



Y

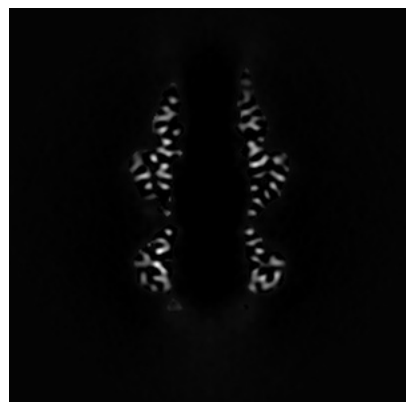


Z

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

6.2 Central slices [i](#)

6.2.1 Primary map



X Index: 120



Y Index: 120



Z Index: 120

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: 140



Y Index: 94

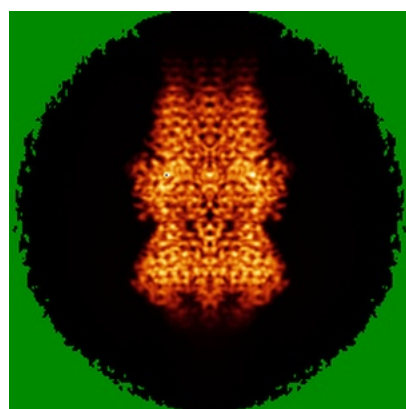


Z Index: 82

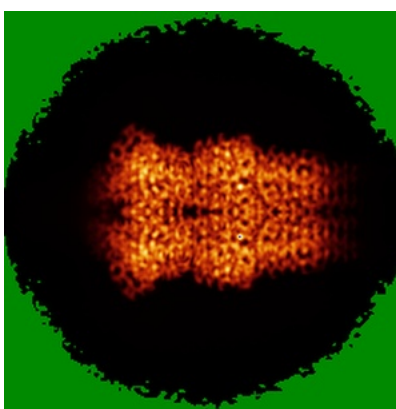
The images above show the largest variance slices of the map in three orthogonal directions.

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

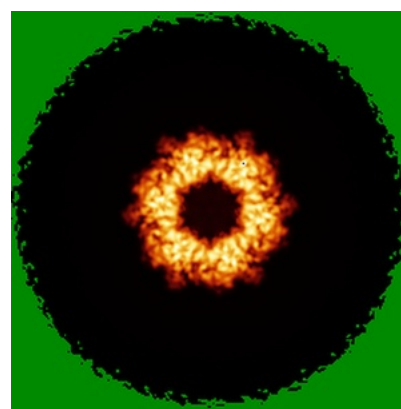
6.4.1 Primary map



X



Y

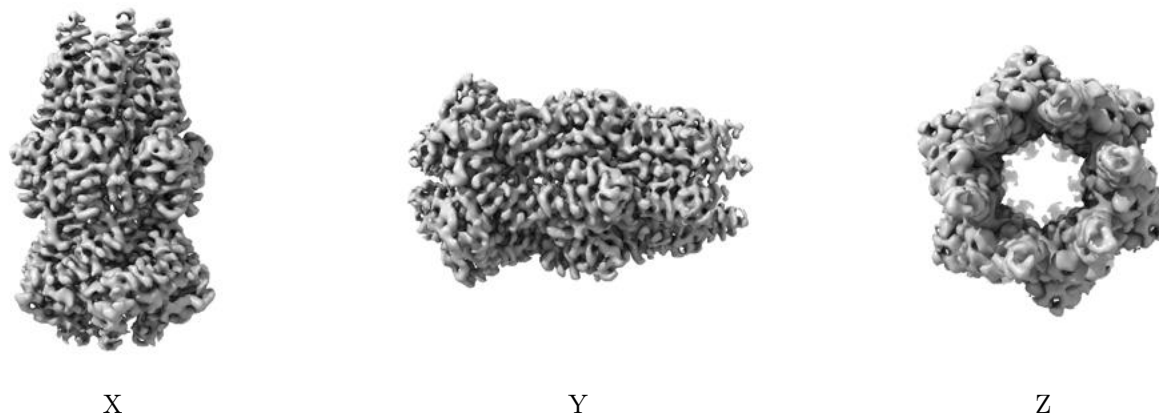


Z

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 0.0114. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

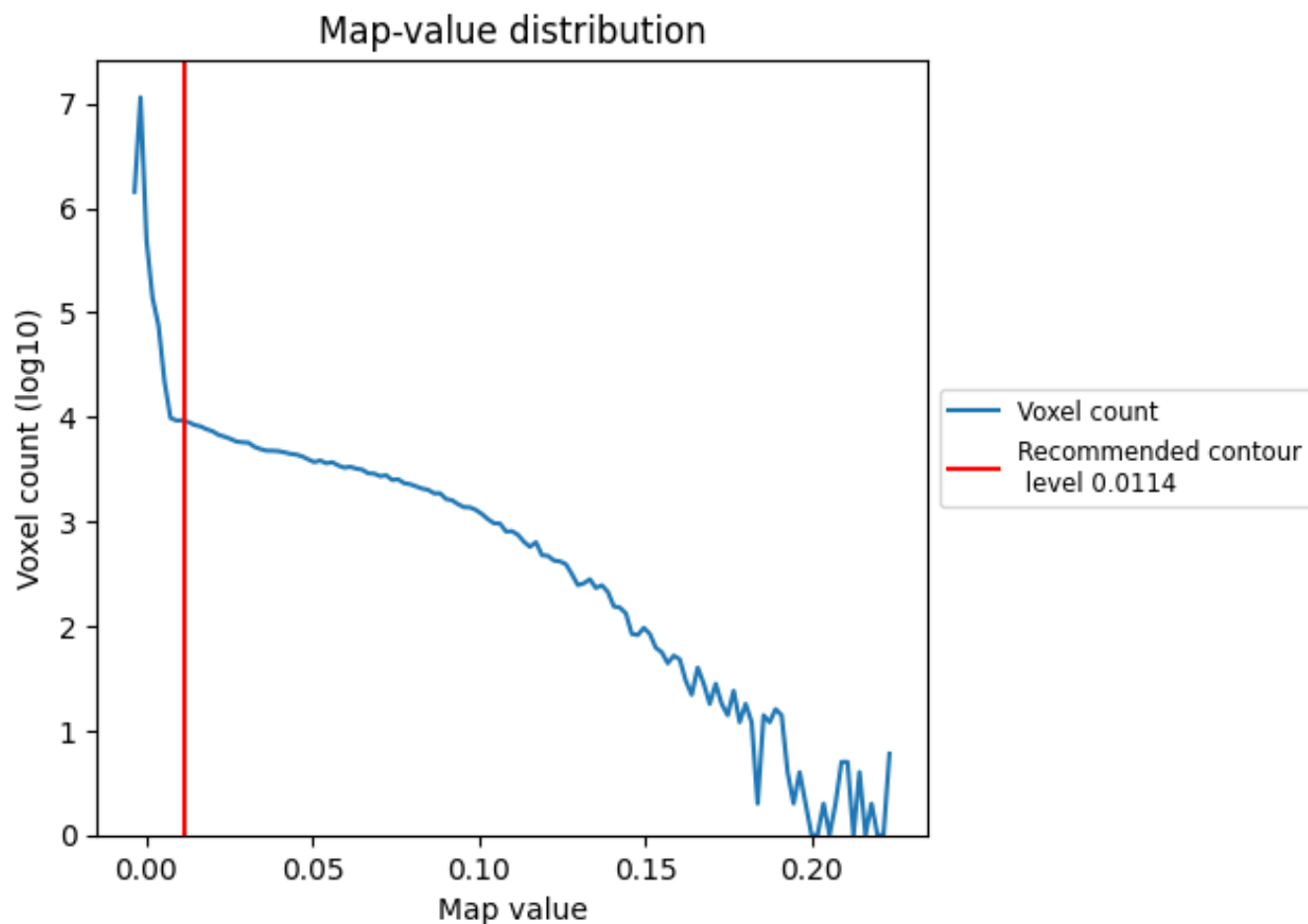
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

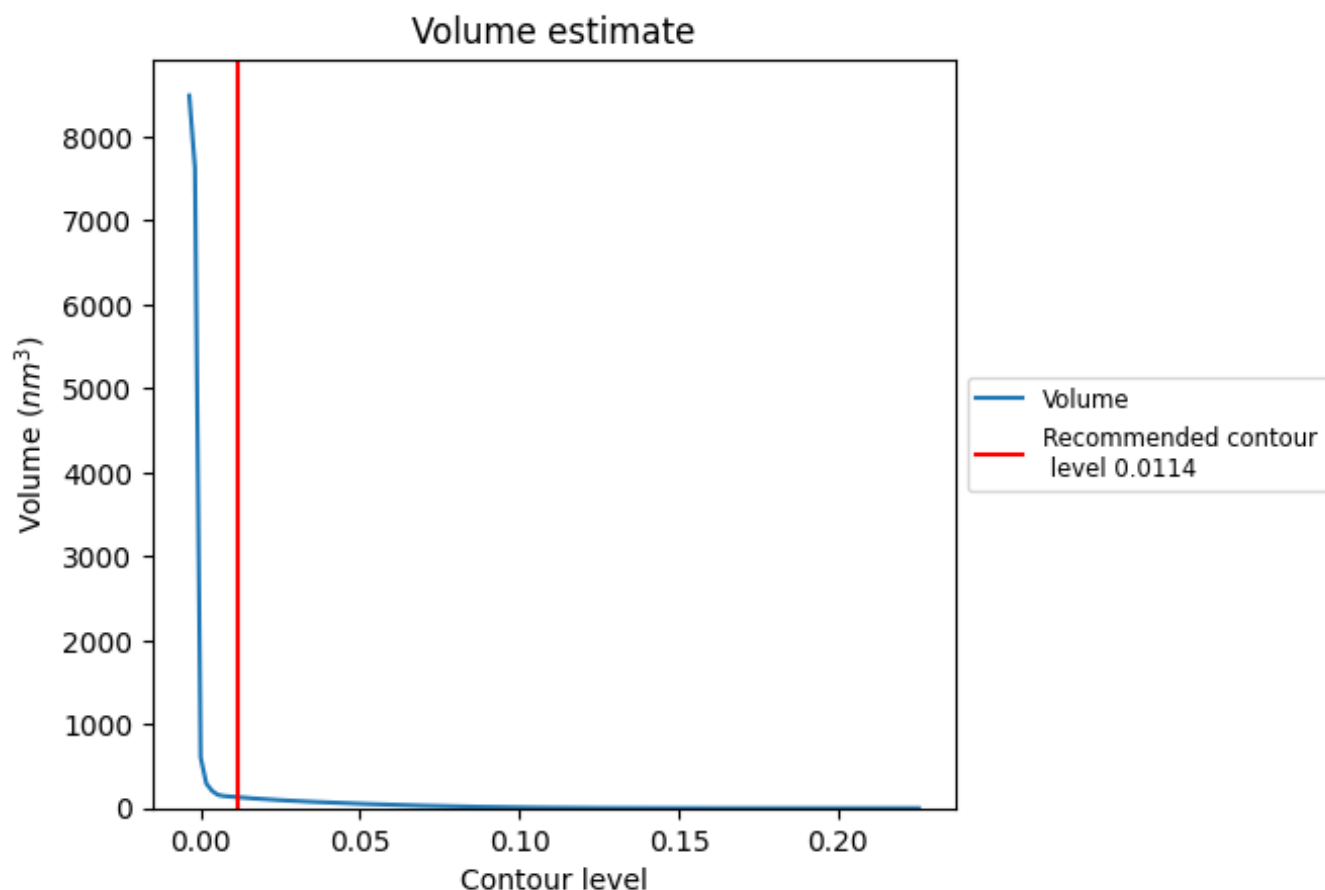
This section contains the results of statistical analysis of the map.

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.

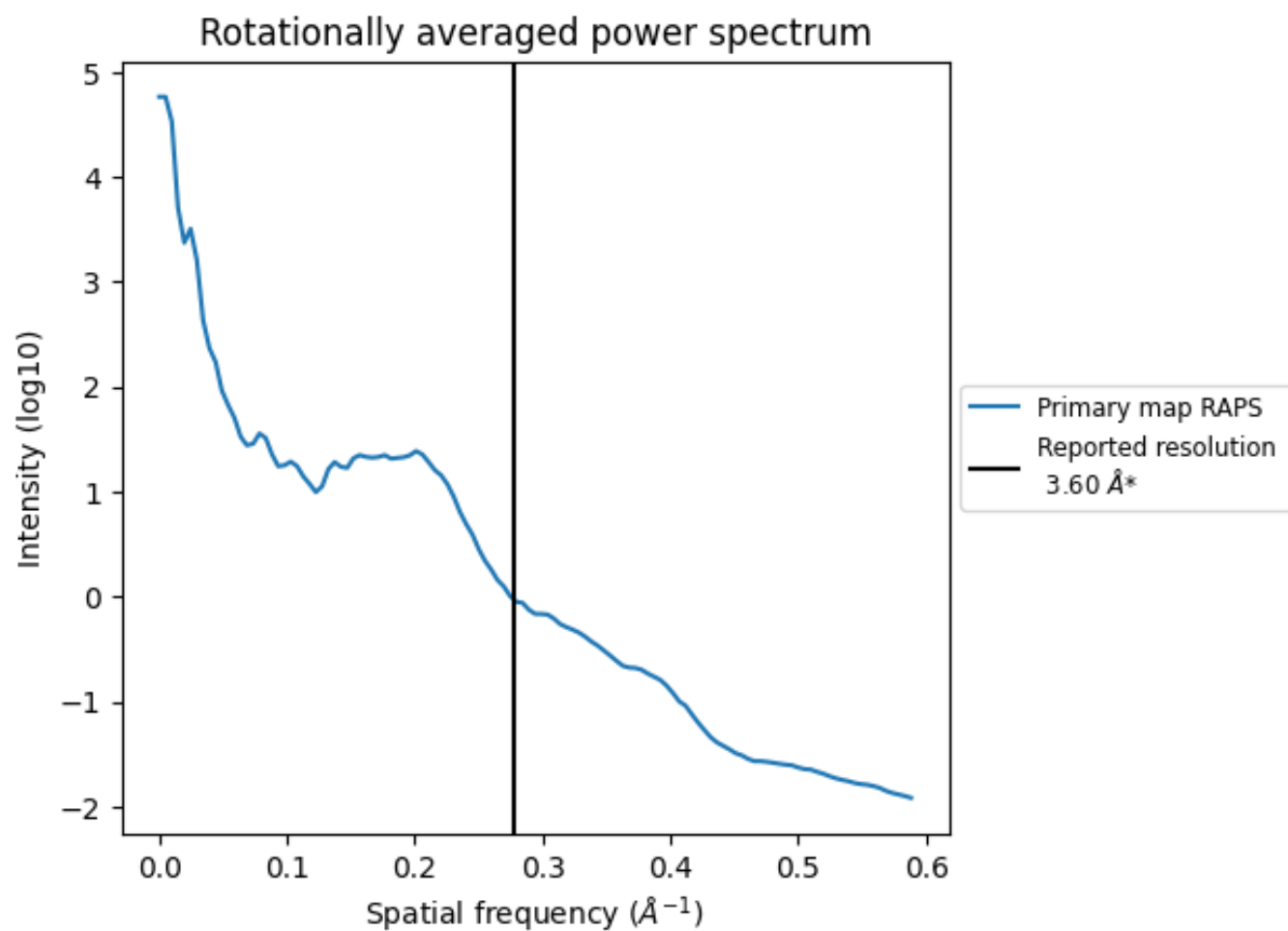
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 131 nm^3 ; this corresponds to an approximate mass of 119 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 ⓘ

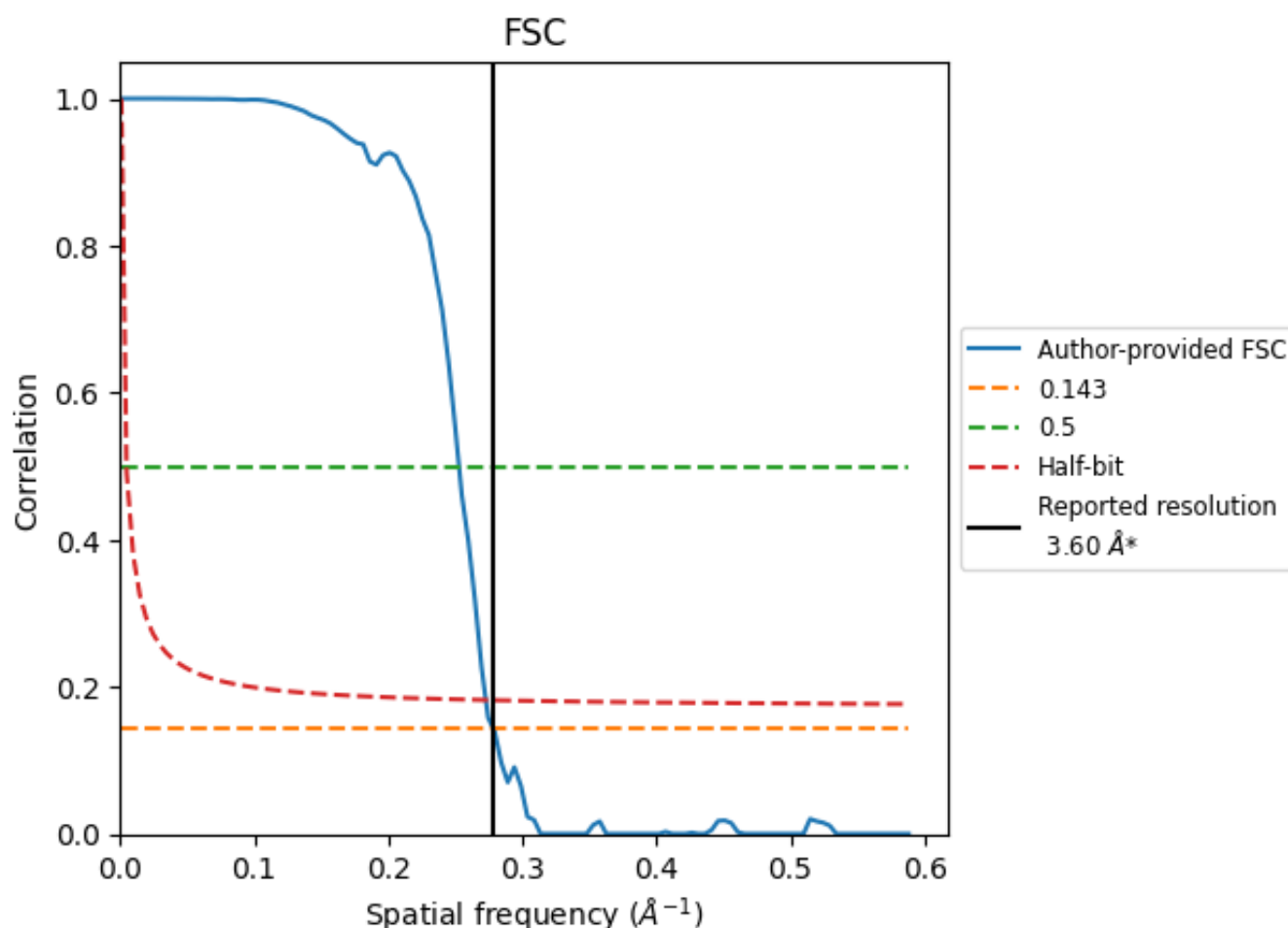


*Reported resolution corresponds to spatial frequency of 0.278 Å⁻¹

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 0.278 Å⁻¹

8.2 Resolution estimates [i](#)

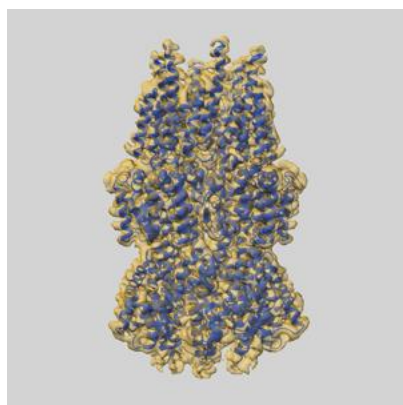
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.60	-	-
Author-provided FSC curve	3.59	3.96	3.67
Unmasked-calculated*	-	-	-

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

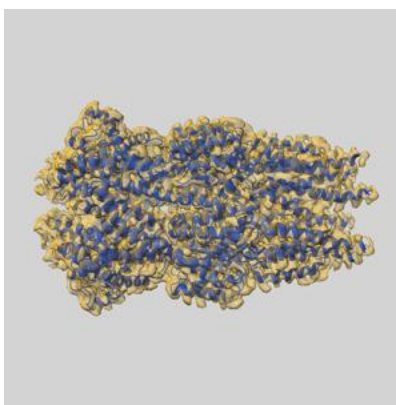
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-10911 and PDB model 6YSZ. Per-residue inclusion information can be found in section [3](#) on page [9](#).

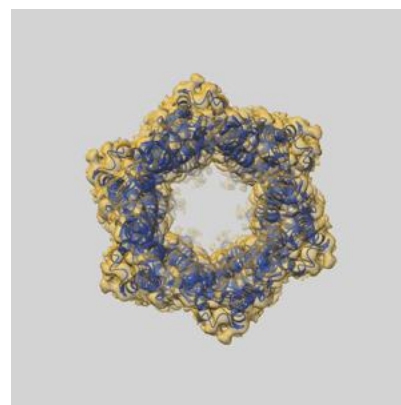
9.1 Map-model overlay [i](#)



X



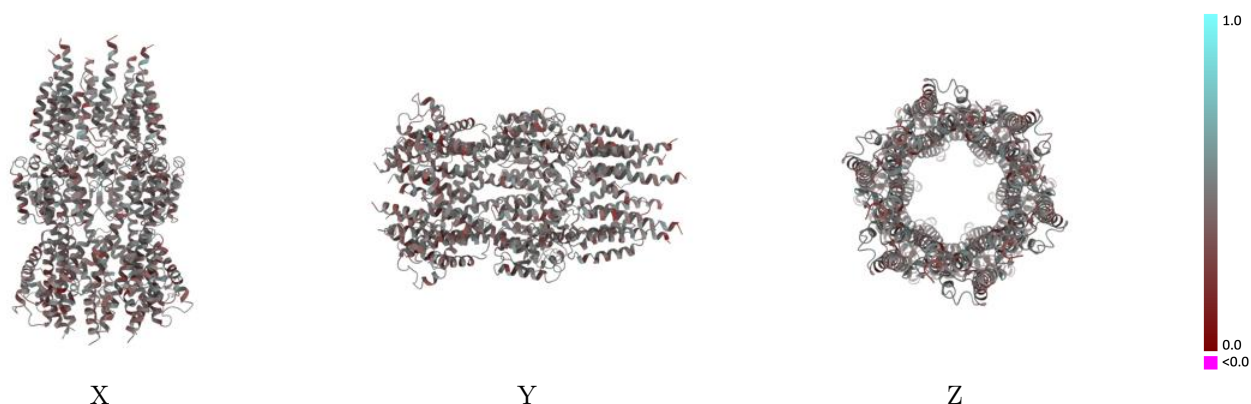
Y



Z

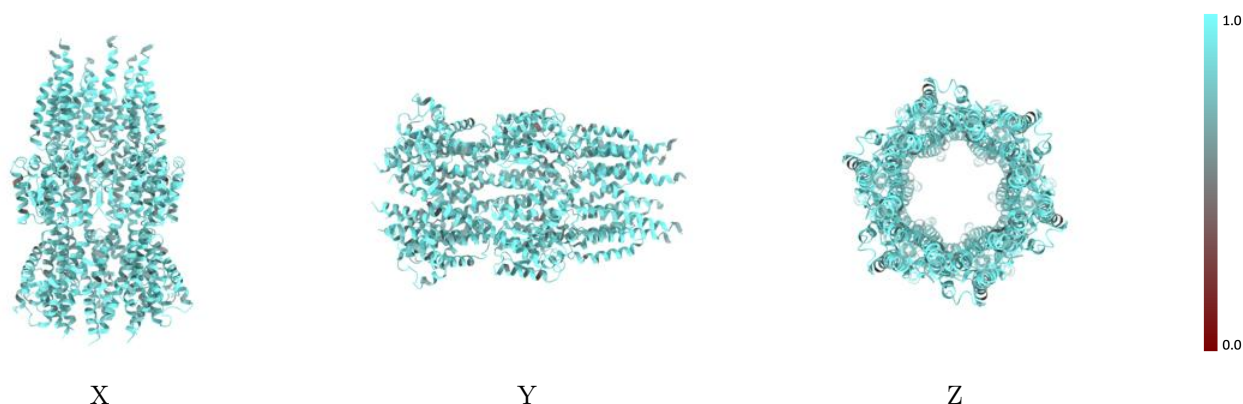
The images above show the 3D surface view of the map at the recommended contour level 0.0114 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



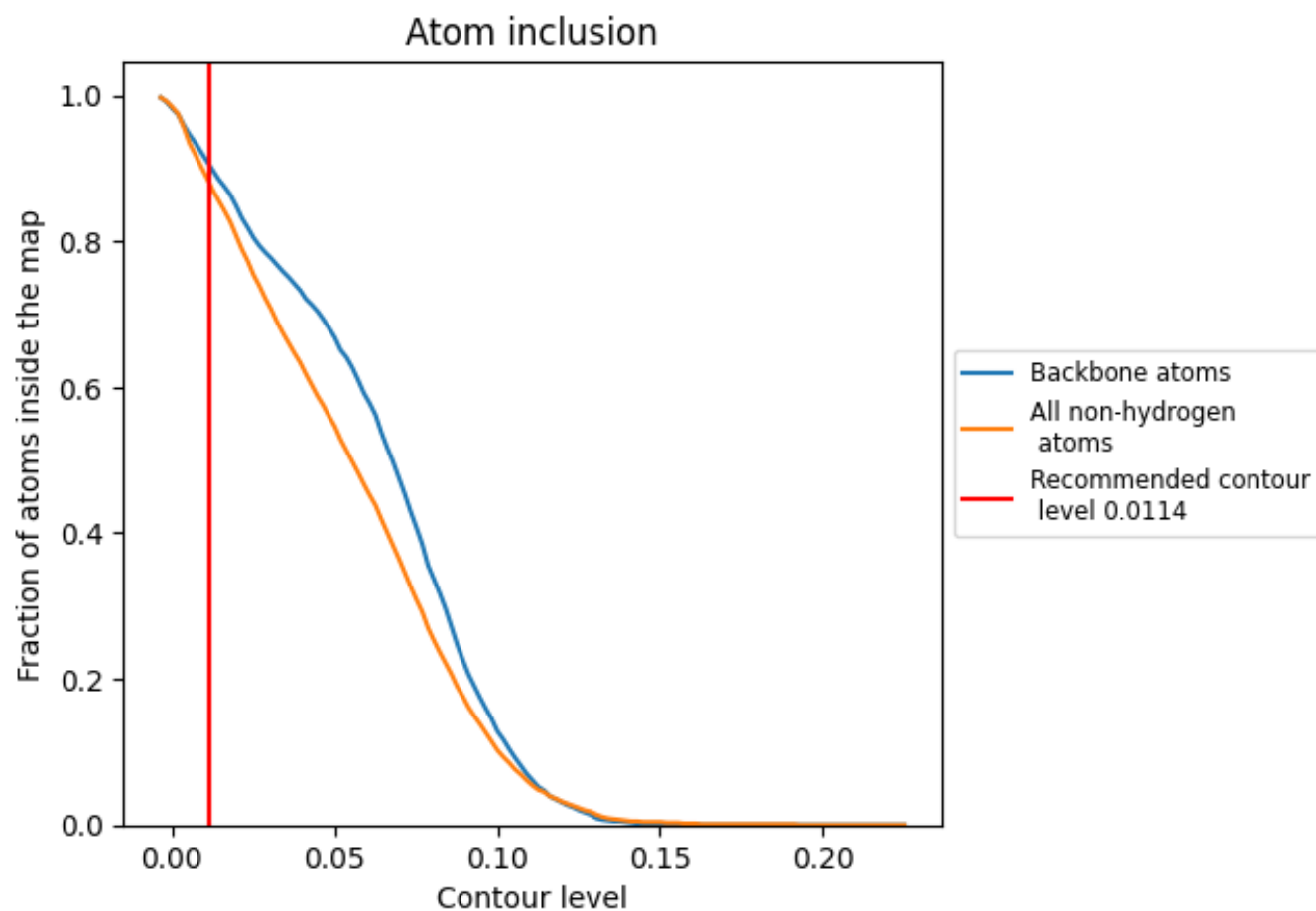
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.0114).

9.4 Atom inclusion [i](#)



At the recommended contour level, 90% of all backbone atoms, 88% 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 (0.0114) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	<div><div></div></div> 0.8810	<div><div></div></div> 0.4340
A	<div><div></div></div> 0.8830	<div><div></div></div> 0.4390
B	<div><div></div></div> 0.8810	<div><div></div></div> 0.4340
C	<div><div></div></div> 0.8810	<div><div></div></div> 0.4320
D	<div><div></div></div> 0.8830	<div><div></div></div> 0.4360
E	<div><div></div></div> 0.8790	<div><div></div></div> 0.4310
F	<div><div></div></div> 0.8800	<div><div></div></div> 0.4320

1.0

0.0

<0.0