



Full wwPDB EM Validation Report ⓘ

Jun 24, 2026 – 01:32 PM EDT

PDB ID : 13LT / pdb_000013lt
EMDB ID : EMD-77144
Title : Structure of human TRPV3-G568D Olmsted syndrome mutant in the 2-fold symmetrical open state
Authors : Nadezhdin, K.D.; Khau, J.; Purohit, R.; Sobolevsky, A.I.
Deposited on : 2026-05-13
Resolution : 3.25 Å(reported)

This is a Full wwPDB EM Validation 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.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

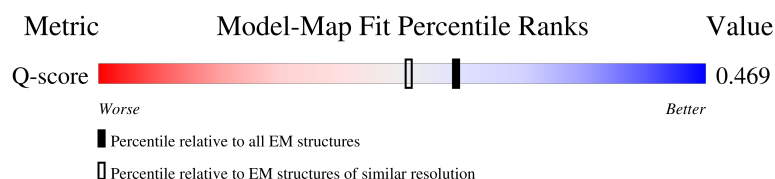
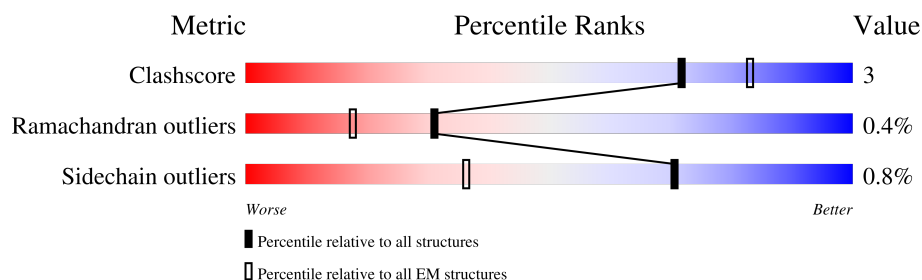
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.25 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	14599 (2.75 - 3.75)

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	1052	
1	B	1052	
1	C	1052	
1	D	1052	

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 19430 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 Isoform 2 of Transient receptor potential cation channel sub-family V member 3, Green fluorescent protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	577	Total	C	N	O	S	0	0
			4725	3084	781	831	29		
1	B	591	Total	C	N	O	S	0	0
			4834	3147	800	856	31		
1	C	577	Total	C	N	O	S	0	0
			4725	3084	781	831	29		
1	D	591	Total	C	N	O	S	0	0
			4834	3147	800	856	31		

There are 116 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	568	ASP	GLY	engineered mutation	UNP Q8NET8
A	792	LEU	-	linker	UNP Q8NET8
A	793	VAL	-	linker	UNP Q8NET8
A	794	PRO	-	linker	UNP Q8NET8
A	795	ARG	-	linker	UNP Q8NET8
A	796	GLY	-	linker	UNP Q8NET8
A	797	SER	-	linker	UNP Q8NET8
A	798	ALA	-	linker	UNP Q8NET8
A	799	ALA	-	linker	UNP Q8NET8
A	800	ALA	-	linker	UNP Q8NET8
A	801	ALA	-	linker	UNP Q8NET8
A	802	VAL	-	linker	UNP Q8NET8
A	865	LEU	PHE	conflict	UNP P42212
A	866	THR	SER	conflict	UNP P42212
A	1007	LYS	ALA	conflict	UNP P42212
A	1032	LEU	HIS	conflict	UNP P42212
A	1040	SER	-	expression tag	UNP P42212
A	1041	GLY	-	expression tag	UNP P42212
A	1042	LEU	-	expression tag	UNP P42212
A	1043	ARG	-	expression tag	UNP P42212
A	1044	SER	-	expression tag	UNP P42212

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Chain	Residue	Modelled	Actual	Comment	Reference
A	1045	TRP	-	expression tag	UNP P42212
A	1046	SER	-	expression tag	UNP P42212
A	1047	HIS	-	expression tag	UNP P42212
A	1048	PRO	-	expression tag	UNP P42212
A	1049	GLN	-	expression tag	UNP P42212
A	1050	PHE	-	expression tag	UNP P42212
A	1051	GLU	-	expression tag	UNP P42212
A	1052	LYS	-	expression tag	UNP P42212
B	568	ASP	GLY	engineered mutation	UNP Q8NET8
B	792	LEU	-	linker	UNP Q8NET8
B	793	VAL	-	linker	UNP Q8NET8
B	794	PRO	-	linker	UNP Q8NET8
B	795	ARG	-	linker	UNP Q8NET8
B	796	GLY	-	linker	UNP Q8NET8
B	797	SER	-	linker	UNP Q8NET8
B	798	ALA	-	linker	UNP Q8NET8
B	799	ALA	-	linker	UNP Q8NET8
B	800	ALA	-	linker	UNP Q8NET8
B	801	ALA	-	linker	UNP Q8NET8
B	802	VAL	-	linker	UNP Q8NET8
B	865	LEU	PHE	conflict	UNP P42212
B	866	THR	SER	conflict	UNP P42212
B	1007	LYS	ALA	conflict	UNP P42212
B	1032	LEU	HIS	conflict	UNP P42212
B	1040	SER	-	expression tag	UNP P42212
B	1041	GLY	-	expression tag	UNP P42212
B	1042	LEU	-	expression tag	UNP P42212
B	1043	ARG	-	expression tag	UNP P42212
B	1044	SER	-	expression tag	UNP P42212
B	1045	TRP	-	expression tag	UNP P42212
B	1046	SER	-	expression tag	UNP P42212
B	1047	HIS	-	expression tag	UNP P42212
B	1048	PRO	-	expression tag	UNP P42212
B	1049	GLN	-	expression tag	UNP P42212
B	1050	PHE	-	expression tag	UNP P42212
B	1051	GLU	-	expression tag	UNP P42212
B	1052	LYS	-	expression tag	UNP P42212
C	568	ASP	GLY	engineered mutation	UNP Q8NET8
C	792	LEU	-	linker	UNP Q8NET8
C	793	VAL	-	linker	UNP Q8NET8
C	794	PRO	-	linker	UNP Q8NET8
C	795	ARG	-	linker	UNP Q8NET8

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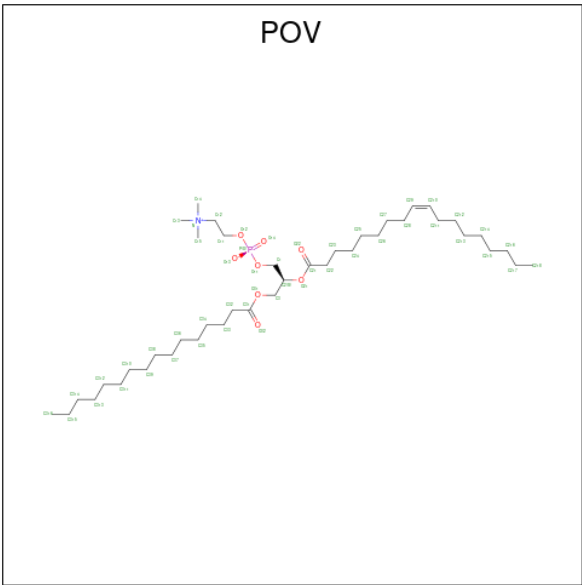
Chain	Residue	Modelled	Actual	Comment	Reference
C	796	GLY	-	linker	UNP Q8NET8
C	797	SER	-	linker	UNP Q8NET8
C	798	ALA	-	linker	UNP Q8NET8
C	799	ALA	-	linker	UNP Q8NET8
C	800	ALA	-	linker	UNP Q8NET8
C	801	ALA	-	linker	UNP Q8NET8
C	802	VAL	-	linker	UNP Q8NET8
C	865	LEU	PHE	conflict	UNP P42212
C	866	THR	SER	conflict	UNP P42212
C	1007	LYS	ALA	conflict	UNP P42212
C	1032	LEU	HIS	conflict	UNP P42212
C	1040	SER	-	expression tag	UNP P42212
C	1041	GLY	-	expression tag	UNP P42212
C	1042	LEU	-	expression tag	UNP P42212
C	1043	ARG	-	expression tag	UNP P42212
C	1044	SER	-	expression tag	UNP P42212
C	1045	TRP	-	expression tag	UNP P42212
C	1046	SER	-	expression tag	UNP P42212
C	1047	HIS	-	expression tag	UNP P42212
C	1048	PRO	-	expression tag	UNP P42212
C	1049	GLN	-	expression tag	UNP P42212
C	1050	PHE	-	expression tag	UNP P42212
C	1051	GLU	-	expression tag	UNP P42212
C	1052	LYS	-	expression tag	UNP P42212
D	568	ASP	GLY	engineered mutation	UNP Q8NET8
D	792	LEU	-	linker	UNP Q8NET8
D	793	VAL	-	linker	UNP Q8NET8
D	794	PRO	-	linker	UNP Q8NET8
D	795	ARG	-	linker	UNP Q8NET8
D	796	GLY	-	linker	UNP Q8NET8
D	797	SER	-	linker	UNP Q8NET8
D	798	ALA	-	linker	UNP Q8NET8
D	799	ALA	-	linker	UNP Q8NET8
D	800	ALA	-	linker	UNP Q8NET8
D	801	ALA	-	linker	UNP Q8NET8
D	802	VAL	-	linker	UNP Q8NET8
D	865	LEU	PHE	conflict	UNP P42212
D	866	THR	SER	conflict	UNP P42212
D	1007	LYS	ALA	conflict	UNP P42212
D	1032	LEU	HIS	conflict	UNP P42212
D	1040	SER	-	expression tag	UNP P42212
D	1041	GLY	-	expression tag	UNP P42212

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Chain	Residue	Modelled	Actual	Comment	Reference
D	1042	LEU	-	expression tag	UNP P42212
D	1043	ARG	-	expression tag	UNP P42212
D	1044	SER	-	expression tag	UNP P42212
D	1045	TRP	-	expression tag	UNP P42212
D	1046	SER	-	expression tag	UNP P42212
D	1047	HIS	-	expression tag	UNP P42212
D	1048	PRO	-	expression tag	UNP P42212
D	1049	GLN	-	expression tag	UNP P42212
D	1050	PHE	-	expression tag	UNP P42212
D	1051	GLU	-	expression tag	UNP P42212
D	1052	LYS	-	expression tag	UNP P42212

- Molecule 2 is (2S)-3-(hexadecanoyloxy)-2-[(9Z)-octadec-9-enoyloxy]propyl 2-(trimethylamm onio)ethyl phosphate (CCD ID: POV) (formula: C₄₂H₈₂NO₈P).



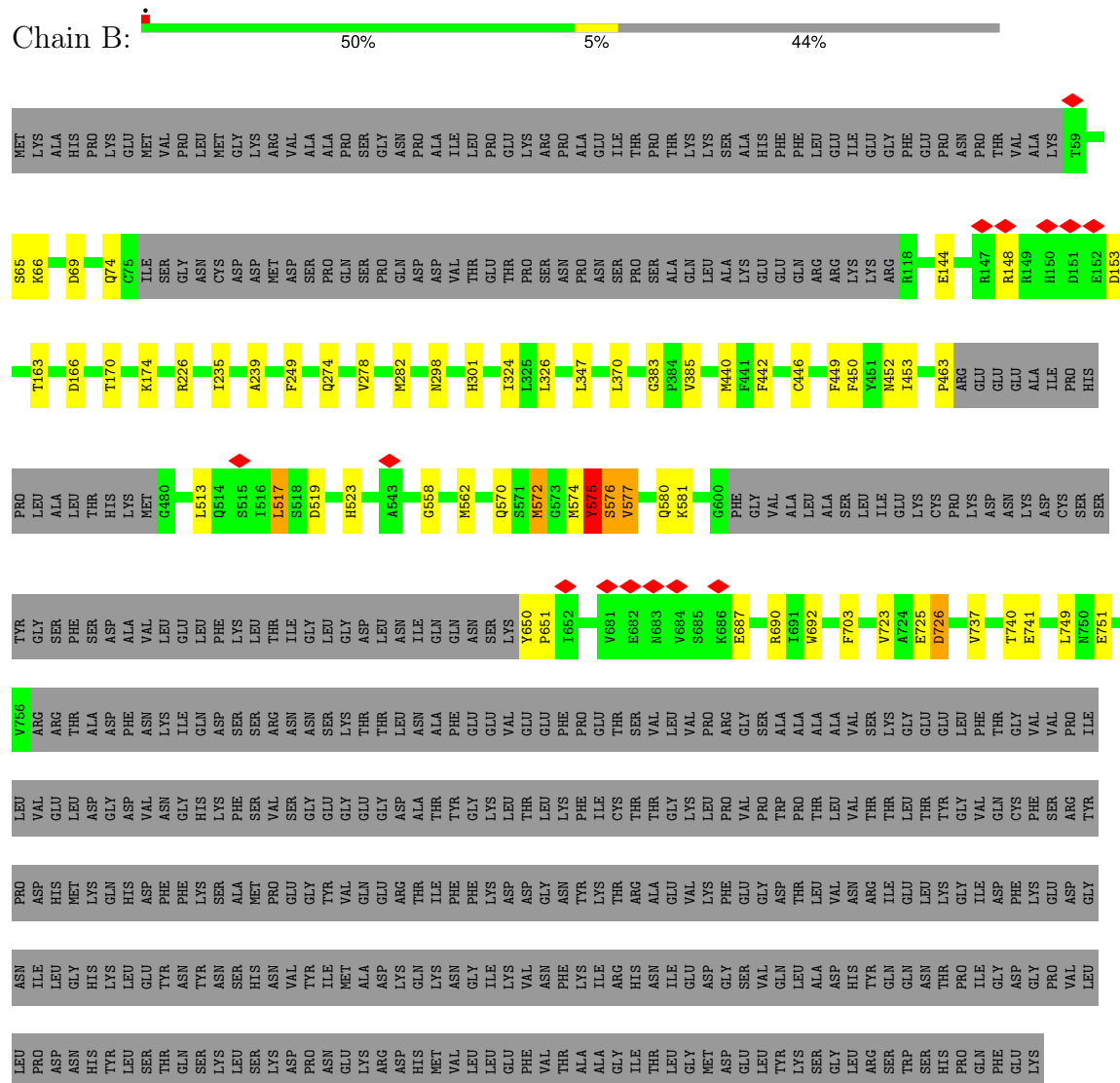
Mol	Chain	Residues	Atoms					AltConf
2	A	1	Total	C	N	O	P	0
			52	42	1	8	1	
2	B	1	Total	C	N	O	P	0
			52	42	1	8	1	
2	B	1	Total	C	N	O	P	0
			52	42	1	8	1	
2	C	1	Total	C	N	O	P	0
			52	42	1	8	1	
2	D	1	Total	C	N	O	P	0
			52	42	1	8	1	

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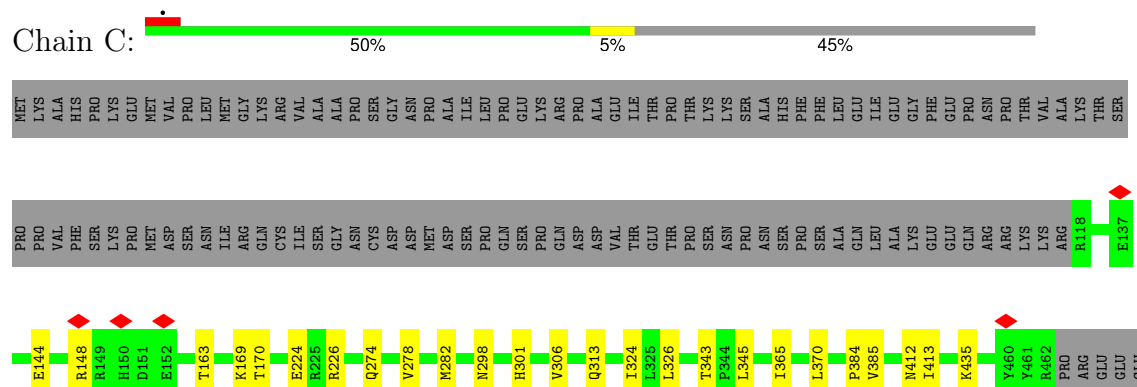
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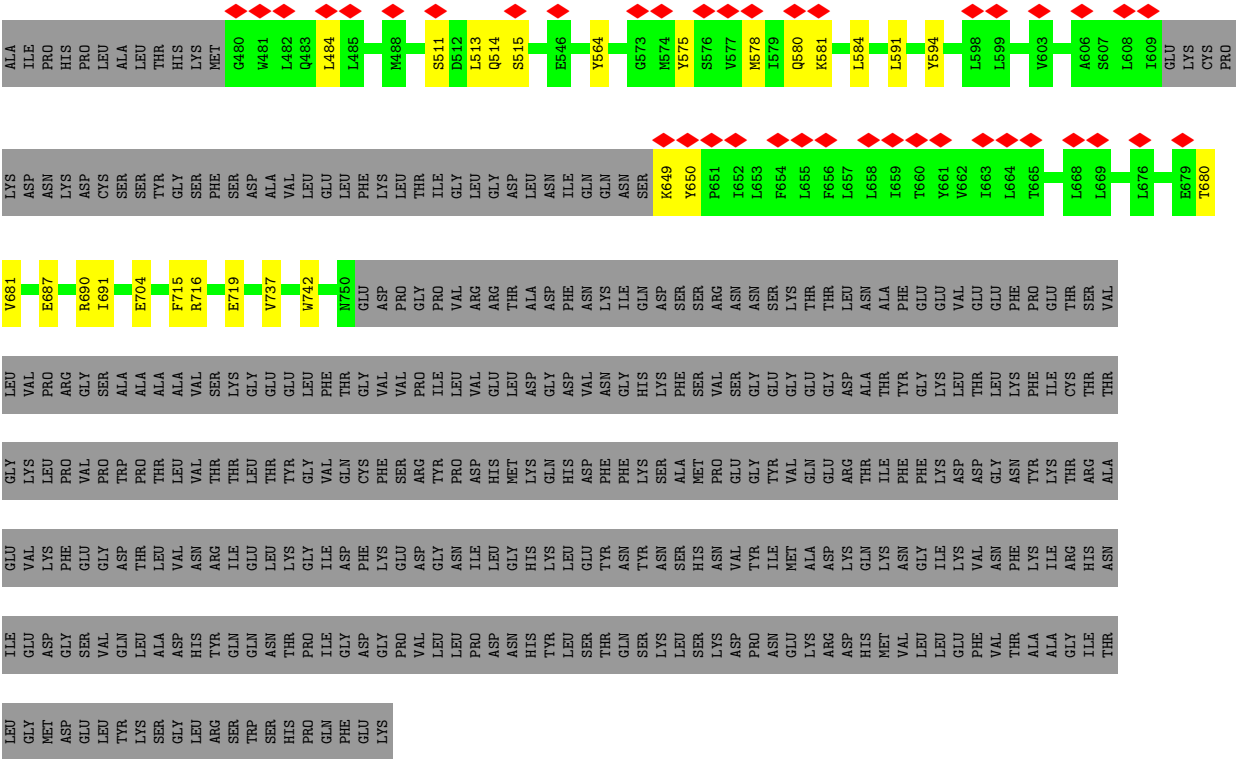
Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
2	D	1	52	42	1	8	1	0

- Molecule 1: Isoform 2 of Transient receptor potential cation channel subfamily V member 3, Green fluorescent protein

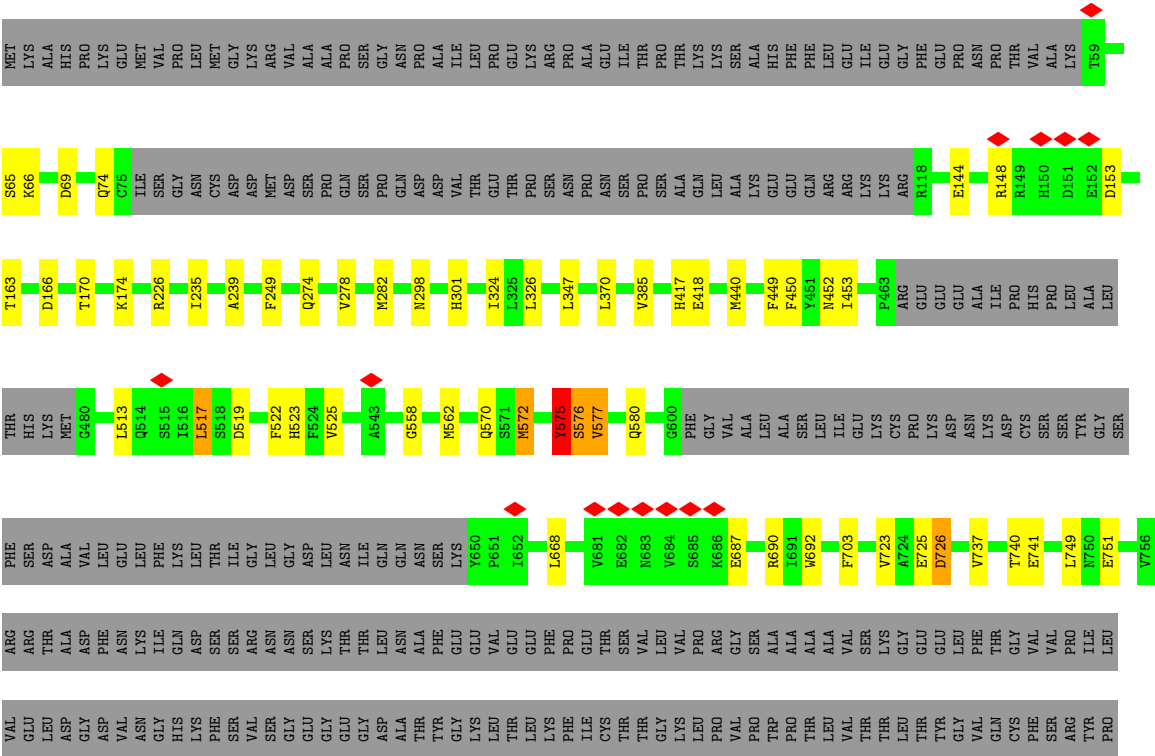


- Molecule 1: Isoform 2 of Transient receptor potential cation channel subfamily V member 3, Green fluorescent protein





● Molecule 1: Isoform 2 of Transient receptor potential cation channel subfamily V member 3, Green fluorescent protein



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

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	153916	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	50	Depositor
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	0.868	Depositor
Minimum map value	-0.441	Depositor
Average map value	0.009	Depositor
Map value standard deviation	0.029	Depositor
Recommended contour level	0.0993	Depositor
Map size (Å)	251.136, 251.136, 251.136	wwPDB
Map dimensions	256, 256, 256	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.981, 0.981, 0.981	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: POV

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	0.31	0/4828	0.72	0/6530
1	B	0.31	0/4942	0.71	2/6688 (0.0%)
1	C	0.31	0/4828	0.72	0/6530
1	D	0.31	0/4942	0.71	2/6688 (0.0%)
All	All	0.31	0/19540	0.71	4/26436 (0.0%)

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	153	ASP	CA-C-N	7.55	125.00	120.24
1	D	153	ASP	C-N-CA	7.55	125.00	120.24
1	B	153	ASP	CA-C-N	7.53	124.99	120.24
1	B	153	ASP	C-N-CA	7.53	124.99	120.24

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	4725	0	4798	28	0
1	B	4834	0	4888	42	0
1	C	4725	0	4798	30	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	D	4834	0	4888	37	0
2	A	52	0	82	1	0
2	B	104	0	164	4	0
2	C	52	0	82	3	0
2	D	104	0	164	2	0
All	All	19430	0	19864	134	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 3.

All (134) 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:B:570:GLN:HE22	1:C:680:THR:HG22	1.39	0.87
1:A:680:THR:HG22	1:D:570:GLN:HE22	1.42	0.83
1:B:575:TYR:CE2	1:B:581:LYS:HG2	2.28	0.69
1:C:719:GLU:HB2	1:D:74:GLN:HE22	1.62	0.64
1:B:326:LEU:HD12	1:B:370:LEU:HD13	1.81	0.62
1:A:719:GLU:HB2	1:B:74:GLN:HE22	1.64	0.62
1:D:326:LEU:HD12	1:D:370:LEU:HD13	1.81	0.62
1:C:326:LEU:HD12	1:C:370:LEU:HD13	1.83	0.61
1:B:575:TYR:O	1:B:576:SER:C	2.44	0.61
1:B:298:ASN:OD1	1:B:301:HIS:ND1	2.31	0.60
1:A:163:THR:HG22	1:A:170:THR:HG22	1.84	0.59
1:A:326:LEU:HD12	1:A:370:LEU:HD13	1.83	0.59
1:D:575:TYR:O	1:D:576:SER:C	2.46	0.59
1:C:704:GLU:OE2	1:C:716:ARG:NH1	2.35	0.58
1:B:572:MET:SD	1:B:692:TRP:NE1	2.77	0.58
1:B:575:TYR:CD2	1:B:581:LYS:HG2	2.38	0.58
1:C:163:THR:HG22	1:C:170:THR:HG22	1.84	0.58
1:D:298:ASN:OD1	1:D:301:HIS:ND1	2.31	0.57
1:B:570:GLN:NE2	1:C:680:THR:HG22	2.15	0.57
1:D:572:MET:SD	1:D:692:TRP:NE1	2.77	0.57
1:D:278:VAL:HG12	1:D:282:MET:HE2	1.85	0.57
1:A:680:THR:HG22	1:D:570:GLN:NE2	2.16	0.57
1:B:278:VAL:HG12	1:B:282:MET:HE2	1.86	0.57
1:C:298:ASN:OD1	1:C:301:HIS:ND1	2.34	0.56
1:A:580:GLN:HA	1:A:584:LEU:HD23	1.88	0.56
1:C:581:LYS:HE3	1:C:681:VAL:HG13	1.89	0.56
1:A:581:LYS:HE3	1:A:681:VAL:HG13	1.88	0.55
1:C:435:LYS:HD3	1:C:715:PHE:HD1	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:435:LYS:HD3	1:A:715:PHE:HD1	1.72	0.54
1:C:580:GLN:HA	1:C:584:LEU:HD23	1.88	0.54
1:A:226:ARG:HD2	1:A:274:GLN:HE21	1.73	0.54
1:A:704:GLU:OE2	1:A:716:ARG:NH1	2.35	0.54
1:B:66:LYS:NZ	1:B:166:ASP:OD2	2.40	0.53
1:C:226:ARG:HD2	1:C:274:GLN:HE21	1.73	0.53
1:D:66:LYS:NZ	1:D:166:ASP:OD2	2.40	0.53
1:C:278:VAL:HG12	1:C:282:MET:HE2	1.92	0.52
1:A:278:VAL:HG12	1:A:282:MET:HE2	1.92	0.51
1:B:163:THR:HG22	1:B:170:THR:HG22	1.93	0.51
1:D:163:THR:HG22	1:D:170:THR:HG22	1.93	0.51
1:A:326:LEU:HD11	1:A:365:ILE:HD13	1.93	0.51
1:B:69:ASP:OD1	1:B:174:LYS:NZ	2.38	0.51
1:C:511:SER:OG	1:C:514:GLN:NE2	2.44	0.50
1:D:575:TYR:O	1:D:577:VAL:N	2.45	0.50
1:A:511:SER:OG	1:A:514:GLN:NE2	2.44	0.49
1:D:69:ASP:OD1	1:D:174:LYS:NZ	2.38	0.49
1:A:298:ASN:OD1	1:A:301:HIS:ND1	2.34	0.49
1:C:326:LEU:HD11	1:C:365:ILE:HD13	1.93	0.49
1:C:385:VAL:HG22	1:C:737:VAL:HG12	1.95	0.49
1:B:575:TYR:O	1:B:577:VAL:N	2.45	0.49
2:A:1101:POV:H22A	2:A:1101:POV:H2	1.49	0.49
1:A:385:VAL:HG22	1:A:737:VAL:HG12	1.95	0.49
1:B:576:SER:O	1:B:577:VAL:C	2.55	0.49
1:D:576:SER:O	1:D:577:VAL:C	2.56	0.49
2:B:1101:POV:H310	2:B:1101:POV:H29	1.95	0.48
1:B:144:GLU:HG2	1:B:148:ARG:HH22	1.78	0.48
1:D:144:GLU:HG2	1:D:148:ARG:HH22	1.78	0.48
1:B:65:SER:OG	1:B:66:LYS:N	2.47	0.48
1:A:581:LYS:HG3	1:A:681:VAL:HG11	1.96	0.47
1:B:725:GLU:O	1:B:726:ASP:C	2.57	0.47
2:B:1101:POV:H32A	2:B:1101:POV:H3A	1.56	0.47
2:D:1101:POV:H22A	2:D:1101:POV:H2	1.55	0.47
1:D:725:GLU:O	1:D:726:ASP:C	2.58	0.47
1:A:385:VAL:HG21	1:B:249:PHE:HE1	1.80	0.46
1:D:687:GLU:HA	1:D:690:ARG:HG2	1.97	0.46
1:B:449:PHE:HD1	1:B:562:MET:HE2	1.80	0.46
1:B:687:GLU:HA	1:B:690:ARG:HG2	1.97	0.46
1:D:449:PHE:HD1	1:D:562:MET:HE2	1.80	0.46
2:D:1101:POV:H3A	2:D:1101:POV:H32A	1.56	0.45
1:D:301:HIS:HD2	1:D:347:LEU:HD13	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:301:HIS:HD2	1:B:347:LEU:HD13	1.80	0.45
1:B:235:ILE:HA	1:B:239:ALA:HB3	1.99	0.45
1:D:575:TYR:N	1:D:580:GLN:OE1	2.50	0.45
1:D:235:ILE:HA	1:D:239:ALA:HB3	1.99	0.45
1:D:740:THR:OG1	1:D:741:GLU:OE1	2.34	0.45
1:C:343:THR:HG23	1:C:345:LEU:H	1.81	0.45
1:D:65:SER:OG	1:D:66:LYS:N	2.47	0.45
1:D:440:MET:HE3	1:D:703:PHE:HB3	1.99	0.45
1:B:450:PHE:HA	1:B:453:ILE:HG22	1.99	0.45
1:B:575:TYR:N	1:B:580:GLN:OE1	2.50	0.45
1:B:440:MET:HE3	1:B:703:PHE:HB3	1.99	0.44
1:A:343:THR:HG23	1:A:345:LEU:H	1.81	0.44
1:C:591:LEU:HD23	1:C:594:TYR:HE1	1.82	0.44
1:B:575:TYR:HB3	1:B:576:SER:H	1.46	0.44
1:B:576:SER:HB2	1:B:577:VAL:H	1.55	0.44
1:A:687:GLU:OE2	1:A:690:ARG:NH1	2.50	0.44
1:C:306:VAL:O	1:C:313:GLN:NE2	2.51	0.44
1:D:450:PHE:HA	1:D:453:ILE:HG22	1.99	0.44
1:D:576:SER:HB2	1:D:577:VAL:H	1.53	0.44
1:A:412:ASN:HD22	1:A:413:ILE:H	1.66	0.44
1:C:581:LYS:HG3	1:C:681:VAL:HG11	2.00	0.43
1:D:575:TYR:HB3	1:D:576:SER:H	1.45	0.43
1:B:452:ASN:ND2	1:B:558:GLY:O	2.51	0.43
1:C:564:TYR:HE2	2:C:1101:POV:H15	1.84	0.43
2:C:1101:POV:H22A	2:C:1101:POV:H2	1.50	0.43
1:A:591:LEU:HD23	1:A:594:TYR:HE1	1.82	0.43
1:C:384:PRO:HG3	1:C:742:TRP:CD2	2.54	0.43
1:A:384:PRO:HG3	1:A:742:TRP:CD2	2.54	0.43
1:D:513:LEU:O	1:D:517:LEU:N	2.49	0.43
1:A:306:VAL:O	1:A:313:GLN:NE2	2.51	0.43
2:B:1101:POV:H22A	2:B:1101:POV:H2	1.54	0.43
1:C:385:VAL:HG21	1:D:249:PHE:HE1	1.83	0.43
1:C:687:GLU:OE2	1:C:690:ARG:NH1	2.50	0.43
1:B:383:GLY:N	1:C:224:GLU:OE2	2.44	0.42
1:B:463:PRO:HB3	2:B:1102:POV:H15A	2.01	0.42
1:C:412:ASN:HD22	1:C:413:ILE:H	1.66	0.42
1:A:514:GLN:O	1:A:517:LEU:N	2.49	0.42
1:B:519:ASP:O	1:B:523:HIS:ND1	2.44	0.42
1:C:575:TYR:HA	1:C:578:MET:HB2	2.01	0.42
1:D:452:ASN:ND2	1:D:558:GLY:O	2.51	0.42
1:A:144:GLU:O	1:A:148:ARG:NH2	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:148:ARG:HD2	1:C:148:ARG:H	1.85	0.41
1:B:751:GLU:OE2	1:C:169:LYS:NZ	2.53	0.41
1:D:417:HIS:CD2	1:D:418:GLU:HG3	2.55	0.41
1:D:519:ASP:O	1:D:523:HIS:ND1	2.44	0.41
1:B:513:LEU:O	1:B:517:LEU:N	2.48	0.41
1:B:723:VAL:HA	1:B:749:LEU:HD21	2.03	0.41
1:A:148:ARG:H	1:A:148:ARG:HD2	1.85	0.41
1:A:169:LYS:NZ	1:D:751:GLU:OE2	2.54	0.41
1:B:575:TYR:HE2	1:B:581:LYS:HG2	1.79	0.41
1:B:650:TYR:HA	1:B:651:PRO:HD3	1.89	0.41
1:B:226:ARG:HG2	1:B:274:GLN:NE2	2.36	0.41
1:A:575:TYR:HA	1:A:578:MET:HB2	2.01	0.41
1:B:385:VAL:HG22	1:B:737:VAL:HG22	2.03	0.41
1:B:740:THR:OG1	1:B:741:GLU:OE1	2.34	0.41
1:C:144:GLU:O	1:C:148:ARG:NH2	2.53	0.41
1:B:442:PHE:O	1:B:446:CYS:N	2.54	0.41
1:D:226:ARG:HG2	1:D:274:GLN:NE2	2.36	0.41
1:C:649:LYS:HB3	1:C:650:TYR:H	1.66	0.40
1:D:723:VAL:HA	1:D:749:LEU:HD21	2.02	0.40
1:B:574:MET:O	1:B:575:TYR:CB	2.66	0.40
2:C:1101:POV:H33A	2:C:1101:POV:H36	1.97	0.40
1:D:385:VAL:HG22	1:D:737:VAL:HG22	2.03	0.40
1:D:522:PHE:HA	1:D:525:VAL:HG22	2.03	0.40
1:D:668:LEU:HD23	1:D:668:LEU:HA	1.87	0.40

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	571/1052 (54%)	517 (90%)	53 (9%)	1 (0%)	43 70

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	583/1052 (55%)	533 (91%)	46 (8%)	4 (1%)	18	48
1	C	571/1052 (54%)	518 (91%)	52 (9%)	1 (0%)	43	70
1	D	583/1052 (55%)	533 (91%)	46 (8%)	4 (1%)	18	48
All	All	2308/4208 (55%)	2101 (91%)	197 (8%)	10 (0%)	31	59

All (10) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	572	MET
1	B	575	TYR
1	D	572	MET
1	D	575	TYR
1	A	515	SER
1	B	726	ASP
1	C	515	SER
1	D	726	ASP
1	B	577	VAL
1	D	577	VAL

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	512/930 (55%)	508 (99%)	4 (1%)	73	78
1	B	528/930 (57%)	524 (99%)	4 (1%)	73	78
1	C	512/930 (55%)	508 (99%)	4 (1%)	73	78
1	D	528/930 (57%)	524 (99%)	4 (1%)	73	78
All	All	2080/3720 (56%)	2064 (99%)	16 (1%)	70	78

All (16) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	324	ILE

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Mol	Chain	Res	Type
1	A	484	LEU
1	A	513	LEU
1	A	691	ILE
1	B	324	ILE
1	B	517	LEU
1	B	575	TYR
1	B	576	SER
1	C	324	ILE
1	C	484	LEU
1	C	513	LEU
1	C	691	ILE
1	D	324	ILE
1	D	517	LEU
1	D	575	TYR
1	D	576	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (53) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	220	ASN
1	A	244	HIS
1	A	273	ASN
1	A	274	GLN
1	A	314	ASN
1	A	346	GLN
1	A	412	ASN
1	A	452	ASN
1	A	514	GLN
1	A	570	GLN
1	A	671	ASN
1	A	683	ASN
1	A	695	GLN
1	A	750	ASN
1	B	74	GLN
1	B	220	ASN
1	B	244	HIS
1	B	251	ASN
1	B	274	GLN
1	B	410	ASN
1	B	430	HIS
1	B	452	ASN
1	B	570	GLN

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Mol	Chain	Res	Type
1	B	683	ASN
1	B	745	HIS
1	B	750	ASN
1	C	220	ASN
1	C	244	HIS
1	C	251	ASN
1	C	273	ASN
1	C	274	GLN
1	C	314	ASN
1	C	346	GLN
1	C	412	ASN
1	C	452	ASN
1	C	514	GLN
1	C	570	GLN
1	C	671	ASN
1	C	683	ASN
1	C	695	GLN
1	C	750	ASN
1	D	74	GLN
1	D	220	ASN
1	D	244	HIS
1	D	251	ASN
1	D	274	GLN
1	D	410	ASN
1	D	430	HIS
1	D	452	ASN
1	D	570	GLN
1	D	683	ASN
1	D	745	HIS
1	D	750	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](#)

6 ligands are 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	$\# Z > 2$
2	POV	B	1101	-	51,51,51	0.33	0	57,59,59	0.47	0
2	POV	A	1101	-	51,51,51	0.34	0	57,59,59	0.44	0
2	POV	D	1101	-	51,51,51	0.34	0	57,59,59	0.47	0
2	POV	D	1102	-	51,51,51	0.28	0	57,59,59	0.27	0
2	POV	C	1101	-	51,51,51	0.34	0	57,59,59	0.43	0
2	POV	B	1102	-	51,51,51	0.28	0	57,59,59	0.27	0

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
2	POV	B	1101	-	-	16/55/55/55	-
2	POV	A	1101	-	-	26/55/55/55	-
2	POV	D	1101	-	-	16/55/55/55	-
2	POV	D	1102	-	-	16/55/55/55	-
2	POV	C	1101	-	-	27/55/55/55	-
2	POV	B	1102	-	-	18/55/55/55	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (119) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	1101	POV	C11-O12-P-O11
2	A	1101	POV	C11-O12-P-O13
2	A	1101	POV	C11-O12-P-O14
2	A	1101	POV	O21-C2-C3-O31
2	A	1101	POV	C22-C21-O21-C2
2	A	1101	POV	O22-C21-O21-C2
2	A	1101	POV	C32-C31-O31-C3
2	A	1101	POV	O32-C31-O31-C3
2	B	1101	POV	C11-O12-P-O11
2	B	1101	POV	C11-O12-P-O13
2	B	1101	POV	C22-C21-O21-C2
2	B	1101	POV	O22-C21-O21-C2
2	B	1101	POV	C32-C31-O31-C3
2	B	1101	POV	O32-C31-O31-C3
2	B	1102	POV	C1-O11-P-O12
2	B	1102	POV	C1-O11-P-O13
2	B	1102	POV	C11-O12-P-O11
2	B	1102	POV	C11-O12-P-O13
2	B	1102	POV	C11-O12-P-O14
2	B	1102	POV	O21-C2-C3-O31
2	C	1101	POV	C11-O12-P-O11
2	C	1101	POV	C11-O12-P-O13
2	C	1101	POV	C11-O12-P-O14
2	C	1101	POV	O21-C2-C3-O31
2	C	1101	POV	C22-C21-O21-C2
2	C	1101	POV	O22-C21-O21-C2
2	C	1101	POV	C32-C31-O31-C3
2	C	1101	POV	O32-C31-O31-C3
2	D	1101	POV	C11-O12-P-O11
2	D	1101	POV	C11-O12-P-O13
2	D	1101	POV	C22-C21-O21-C2
2	D	1101	POV	O22-C21-O21-C2
2	D	1101	POV	C32-C31-O31-C3
2	D	1101	POV	O32-C31-O31-C3
2	D	1102	POV	C1-O11-P-O12
2	D	1102	POV	C1-O11-P-O13
2	D	1102	POV	C11-O12-P-O11
2	D	1102	POV	C11-O12-P-O13
2	D	1102	POV	C11-O12-P-O14
2	B	1102	POV	C2-C1-O11-P
2	D	1102	POV	C2-C1-O11-P
2	B	1102	POV	C21-C22-C23-C24
2	D	1102	POV	C33-C34-C35-C36

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Mol	Chain	Res	Type	Atoms
2	C	1101	POV	C25-C26-C27-C28
2	D	1101	POV	C21-C22-C23-C24
2	B	1102	POV	C33-C34-C35-C36
2	D	1102	POV	C35-C36-C37-C38
2	B	1102	POV	C35-C36-C37-C38
2	A	1101	POV	C25-C26-C27-C28
2	B	1101	POV	C21-C22-C23-C24
2	C	1101	POV	C23-C24-C25-C26
2	A	1101	POV	C23-C24-C25-C26
2	D	1102	POV	C214-C215-C216-C217
2	A	1101	POV	C11-C12-N-C13
2	B	1101	POV	C310-C311-C312-C313
2	D	1102	POV	O21-C2-C3-O31
2	D	1101	POV	C310-C311-C312-C313
2	B	1101	POV	C34-C35-C36-C37
2	D	1101	POV	C34-C35-C36-C37
2	A	1101	POV	C22-C23-C24-C25
2	A	1101	POV	C1-C2-C3-O31
2	C	1101	POV	C1-C2-C3-O31
2	D	1102	POV	C1-C2-C3-O31
2	A	1101	POV	C210-C211-C212-C213
2	A	1101	POV	C35-C36-C37-C38
2	D	1102	POV	C210-C211-C212-C213
2	C	1101	POV	C310-C311-C312-C313
2	C	1101	POV	C22-C23-C24-C25
2	C	1101	POV	C35-C36-C37-C38
2	A	1101	POV	C11-C12-N-C14
2	C	1101	POV	C34-C35-C36-C37
2	A	1101	POV	C34-C35-C36-C37
2	C	1101	POV	C210-C211-C212-C213
2	A	1101	POV	C310-C311-C312-C313
2	A	1101	POV	C11-C12-N-C15
2	C	1101	POV	C11-C12-N-C13
2	B	1102	POV	C1-C2-C3-O31
2	A	1101	POV	C12-C11-O12-P
2	C	1101	POV	C12-C11-O12-P
2	C	1101	POV	C11-C12-N-C14
2	B	1102	POV	O12-C11-C12-N
2	D	1102	POV	O12-C11-C12-N
2	B	1101	POV	C11-C12-N-C13
2	B	1101	POV	C11-C12-N-C15
2	D	1101	POV	C11-C12-N-C13

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Mol	Chain	Res	Type	Atoms
2	D	1101	POV	C11-C12-N-C15
2	A	1101	POV	C1-O11-P-O12
2	A	1101	POV	C1-O11-P-O13
2	A	1101	POV	C1-O11-P-O14
2	C	1101	POV	C11-C12-N-C15
2	C	1101	POV	C1-O11-P-O12
2	C	1101	POV	C1-O11-P-O13
2	C	1101	POV	C1-O11-P-O14
2	B	1101	POV	C11-C12-N-C14
2	D	1101	POV	C11-C12-N-C14
2	B	1101	POV	C2-C1-O11-P
2	D	1101	POV	C2-C1-O11-P
2	D	1101	POV	C39-C310-C311-C312
2	C	1101	POV	C31-C32-C33-C34
2	B	1101	POV	C25-C26-C27-C28
2	B	1101	POV	C31-C32-C33-C34
2	D	1102	POV	C213-C214-C215-C216
2	D	1101	POV	C31-C32-C33-C34
2	B	1101	POV	C39-C310-C311-C312
2	B	1102	POV	C213-C214-C215-C216
2	D	1102	POV	C211-C212-C213-C214
2	A	1101	POV	C31-C32-C33-C34
2	B	1102	POV	C27-C28-C29-C210
2	B	1102	POV	O31-C31-C32-C33
2	D	1102	POV	O21-C21-C22-C23
2	C	1101	POV	C33-C34-C35-C36
2	D	1101	POV	C25-C26-C27-C28
2	B	1102	POV	C23-C24-C25-C26
2	A	1101	POV	C36-C37-C38-C39
2	B	1102	POV	O32-C31-C32-C33
2	A	1101	POV	O21-C21-C22-C23
2	C	1101	POV	C36-C37-C38-C39
2	B	1102	POV	O21-C21-C22-C23
2	C	1101	POV	O21-C21-C22-C23

There are no ring outliers.

5 monomers are involved in 10 short contacts:

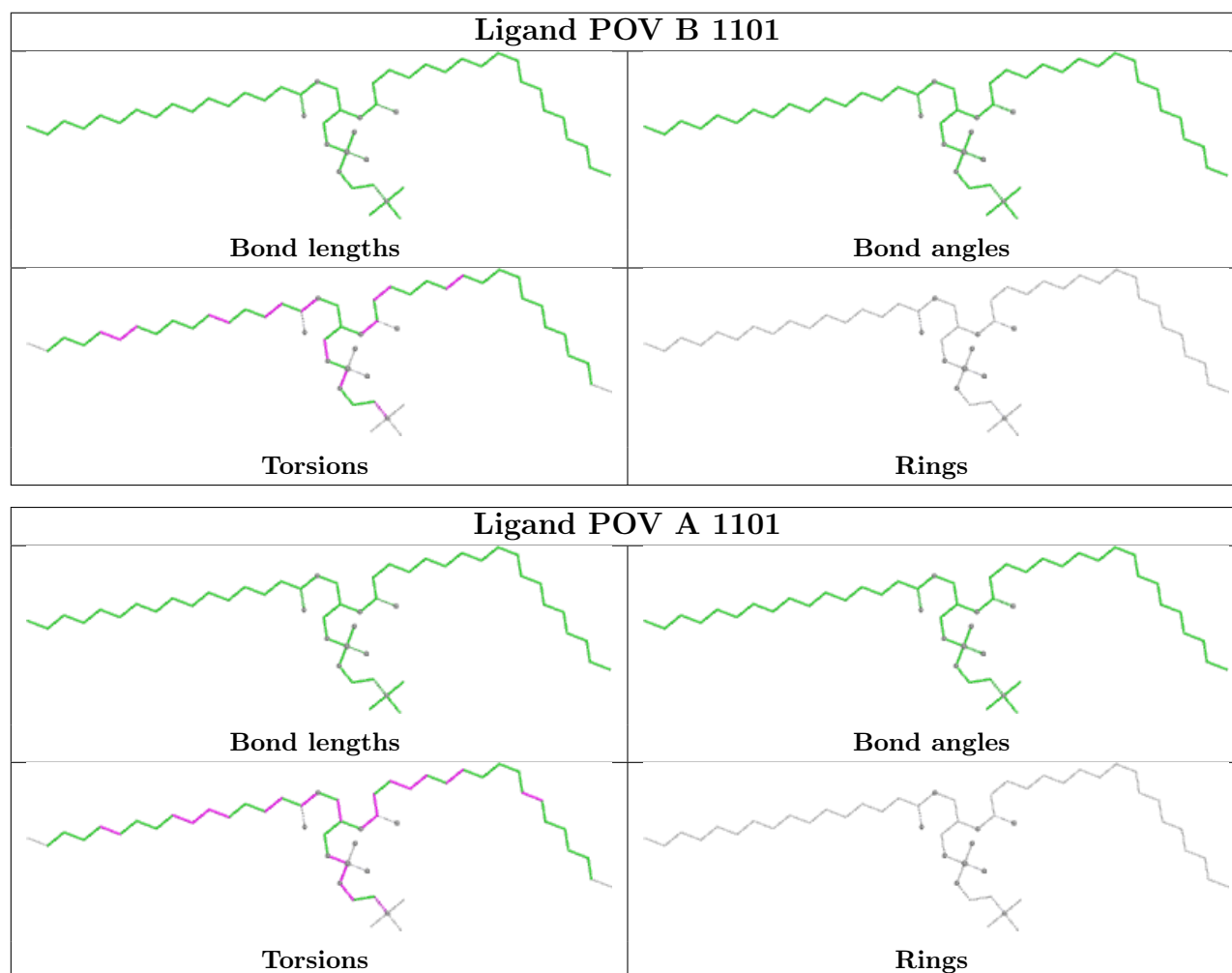
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	1101	POV	3	0
2	A	1101	POV	1	0
2	D	1101	POV	2	0

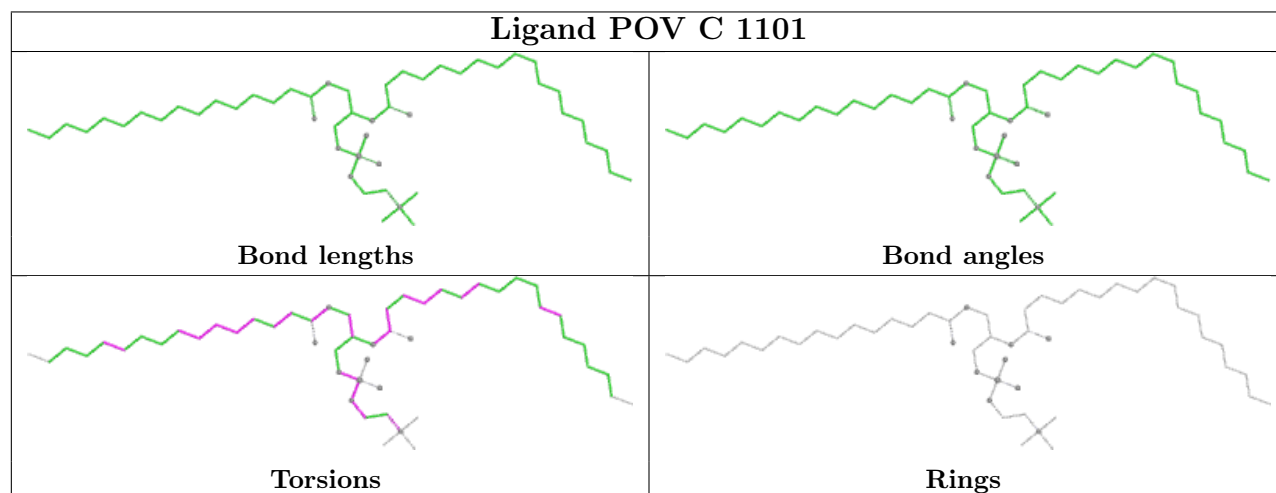
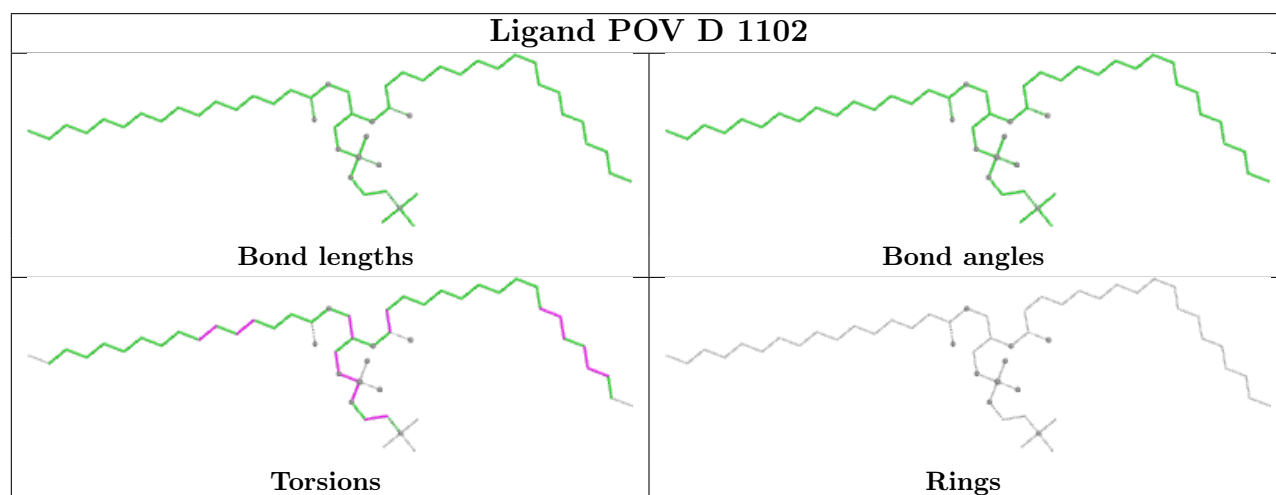
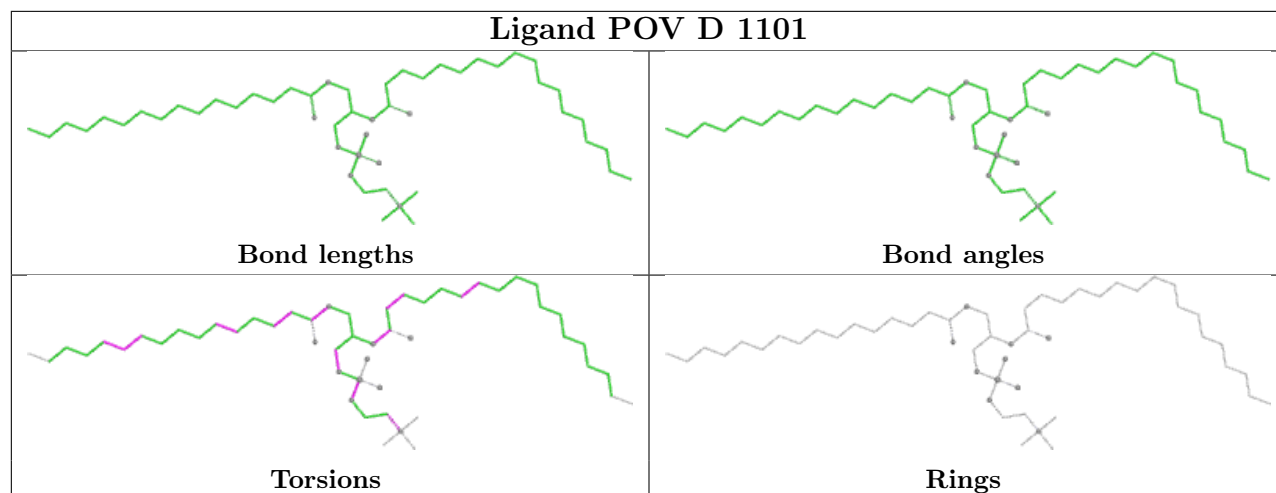
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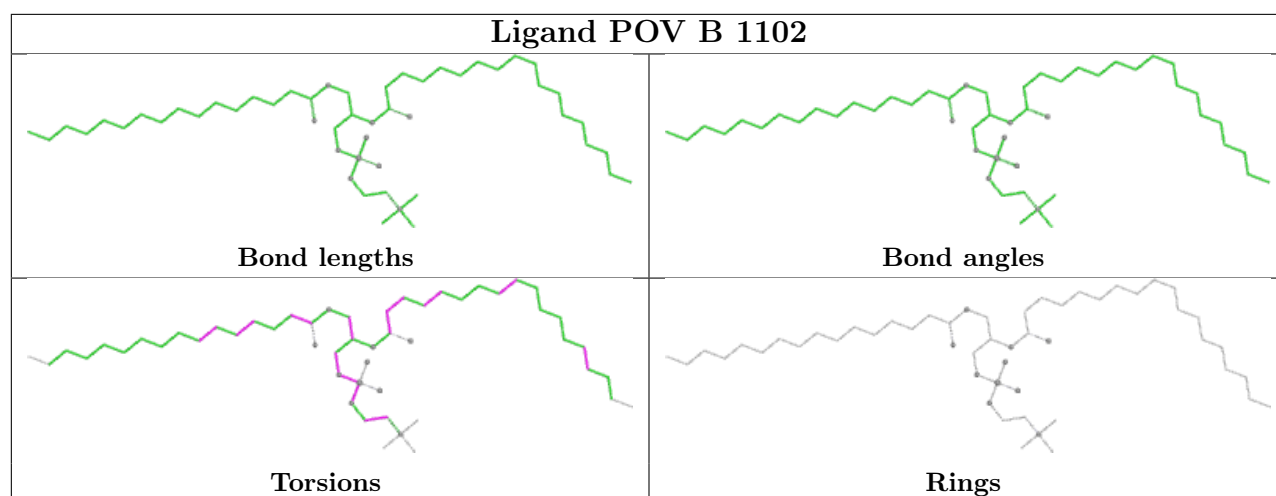
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Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	C	1101	POV	3	0
2	B	1102	POV	1	0

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.

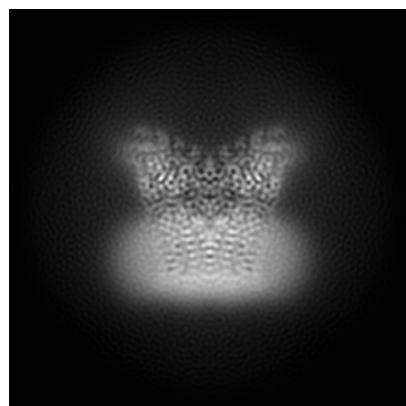
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-77144. These allow visual inspection of the internal detail of the map and identification of artifacts.

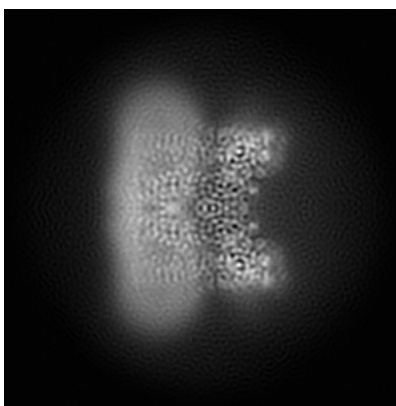
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

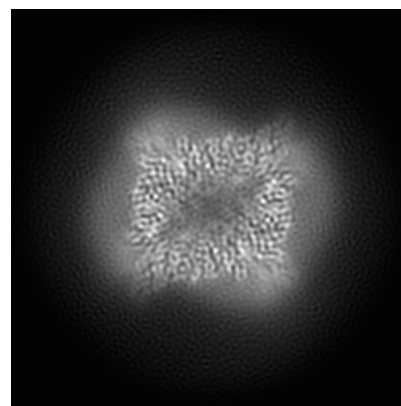
6.1.1 Primary map



X

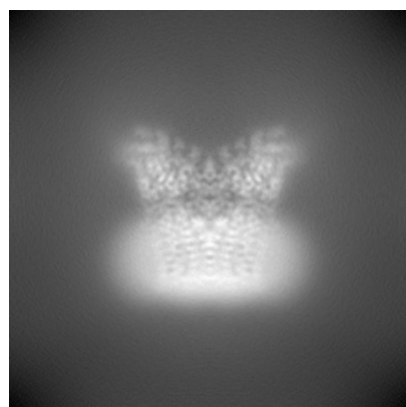


Y

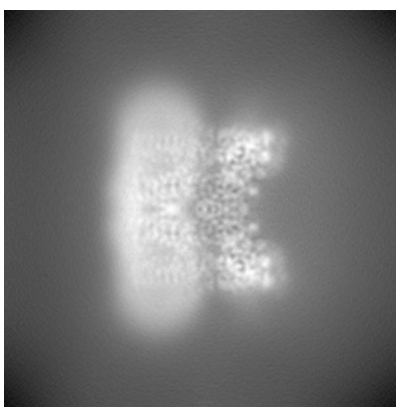


Z

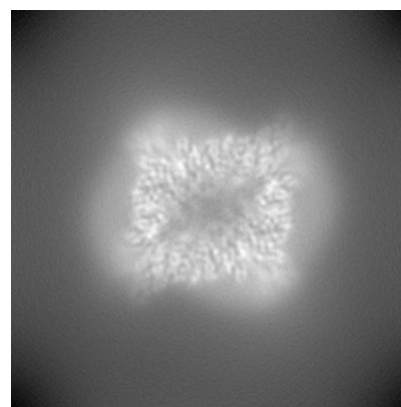
6.1.2 Raw map



X



Y

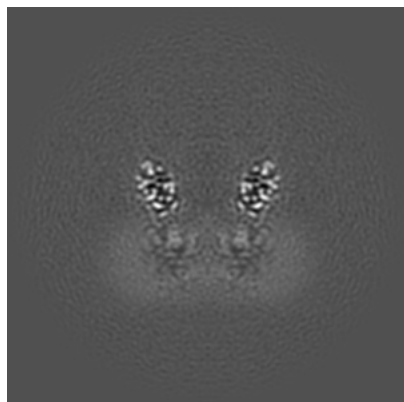


Z

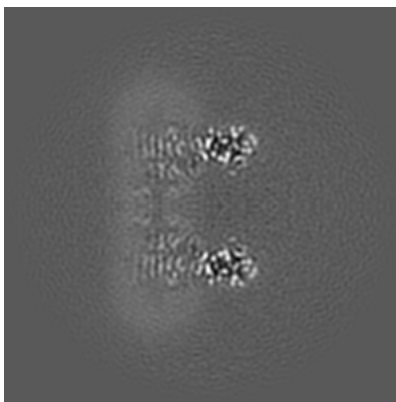
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

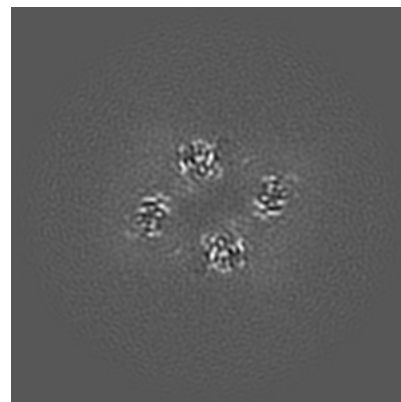
6.2.1 Primary map



X Index: 128

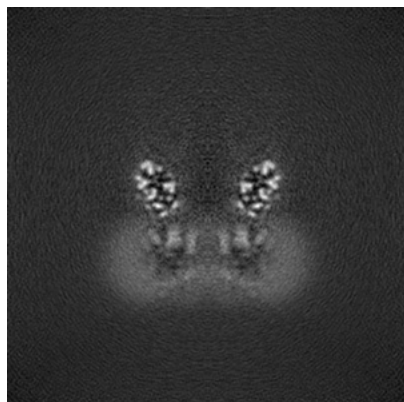


Y Index: 128

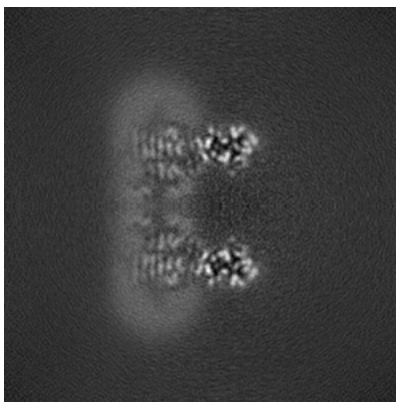


Z Index: 128

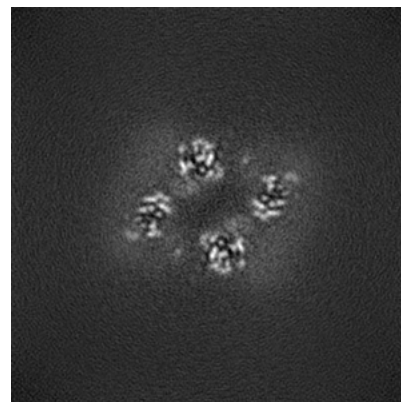
6.2.2 Raw map



X Index: 128



Y Index: 128

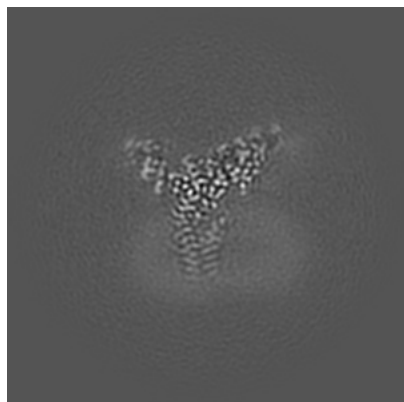


Z Index: 128

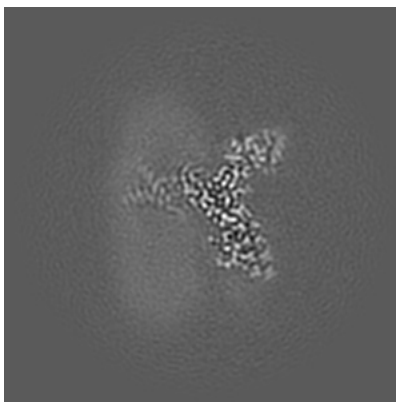
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

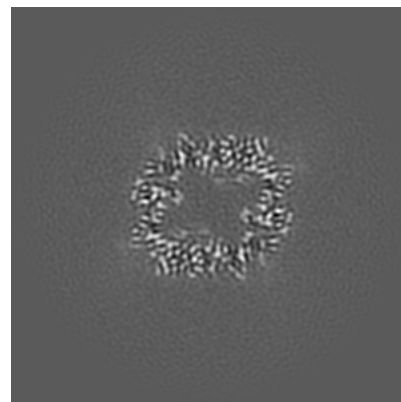
6.3.1 Primary map



X Index: 91

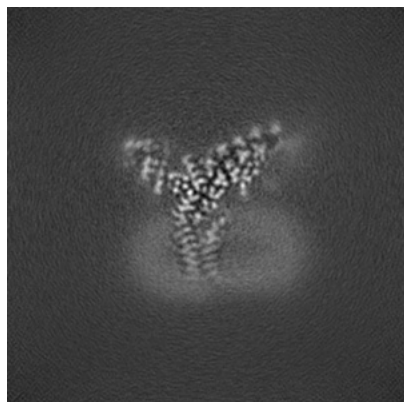


Y Index: 97

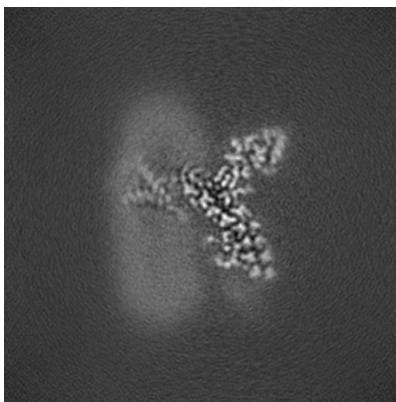


Z Index: 143

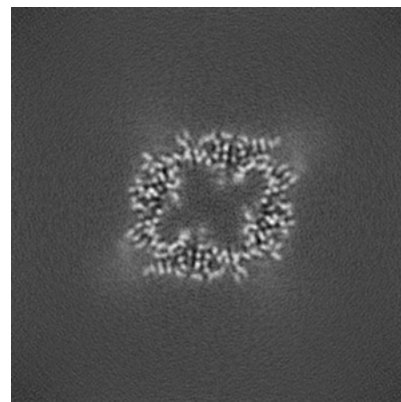
6.3.2 Raw map



X Index: 91



Y Index: 97

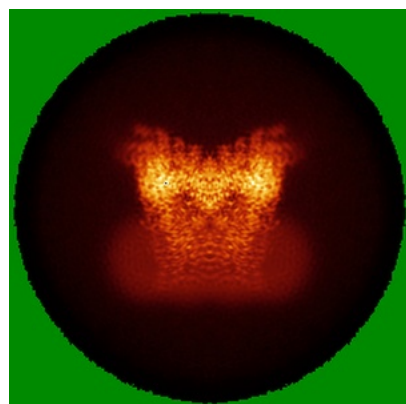


Z Index: 147

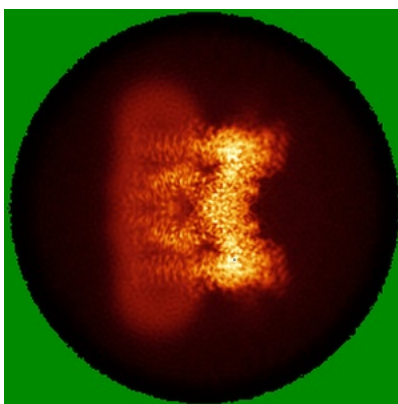
The images above show the largest variance slices of the map in three orthogonal directions.

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

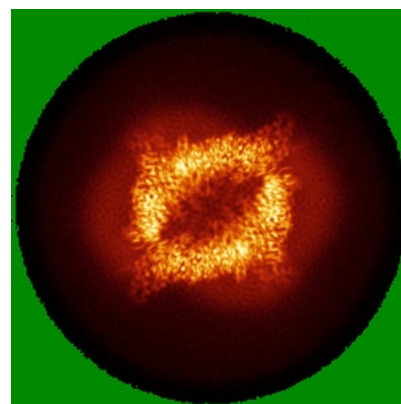
6.4.1 Primary map



X

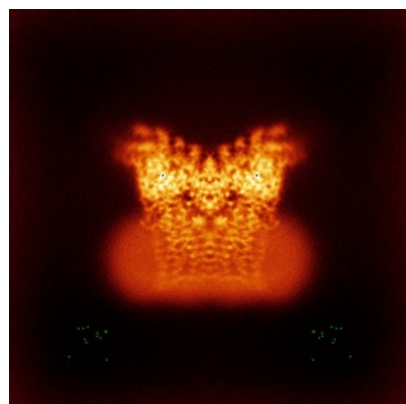


Y

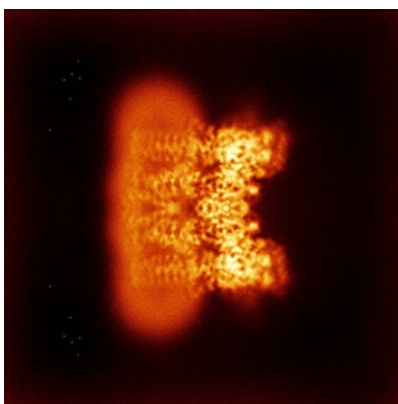


Z

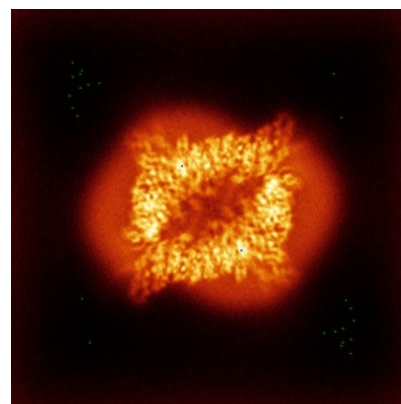
6.4.2 Raw map



X



Y

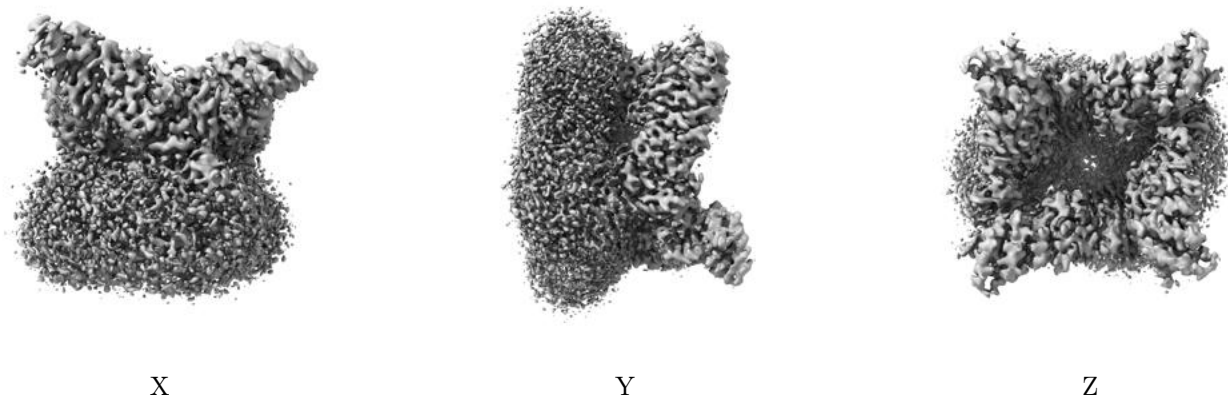


Z

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.

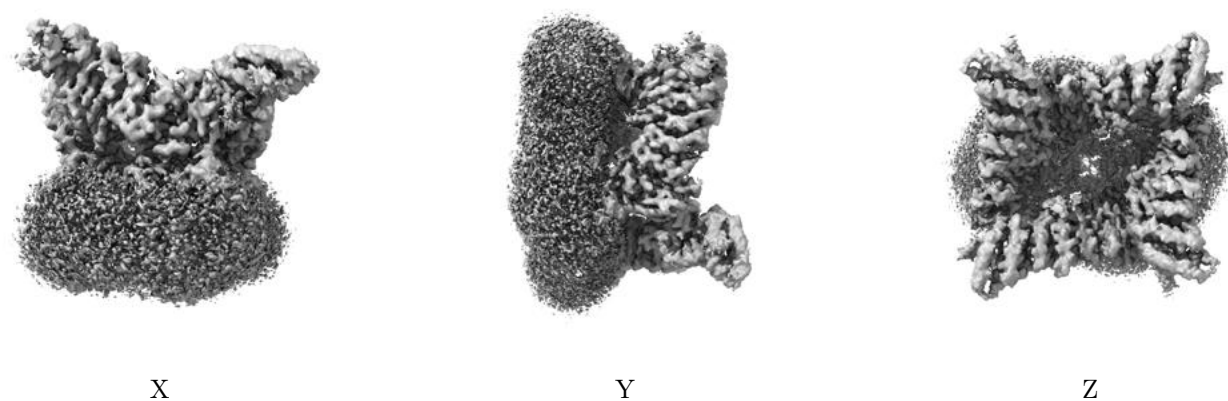
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.0993. 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.

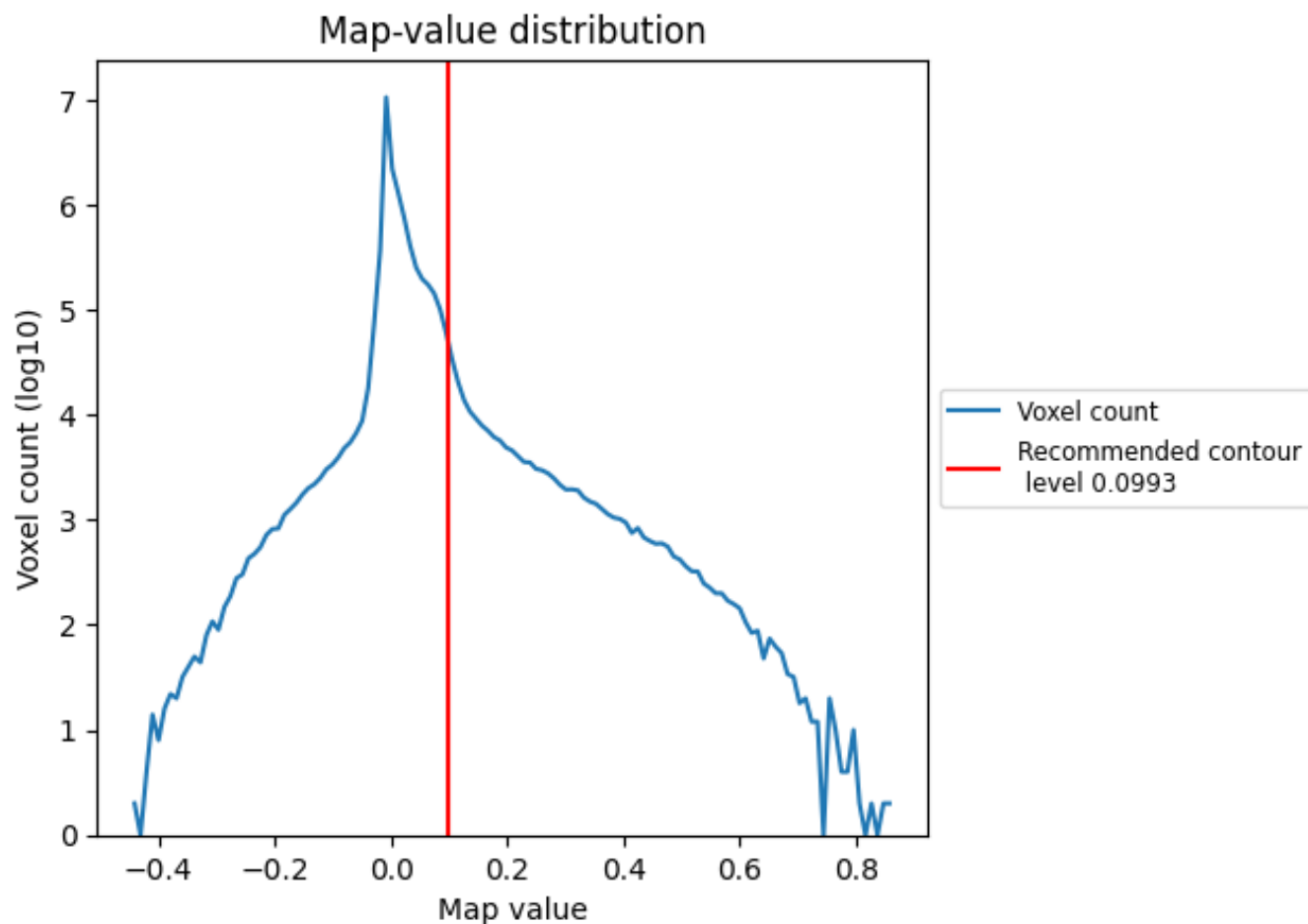
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

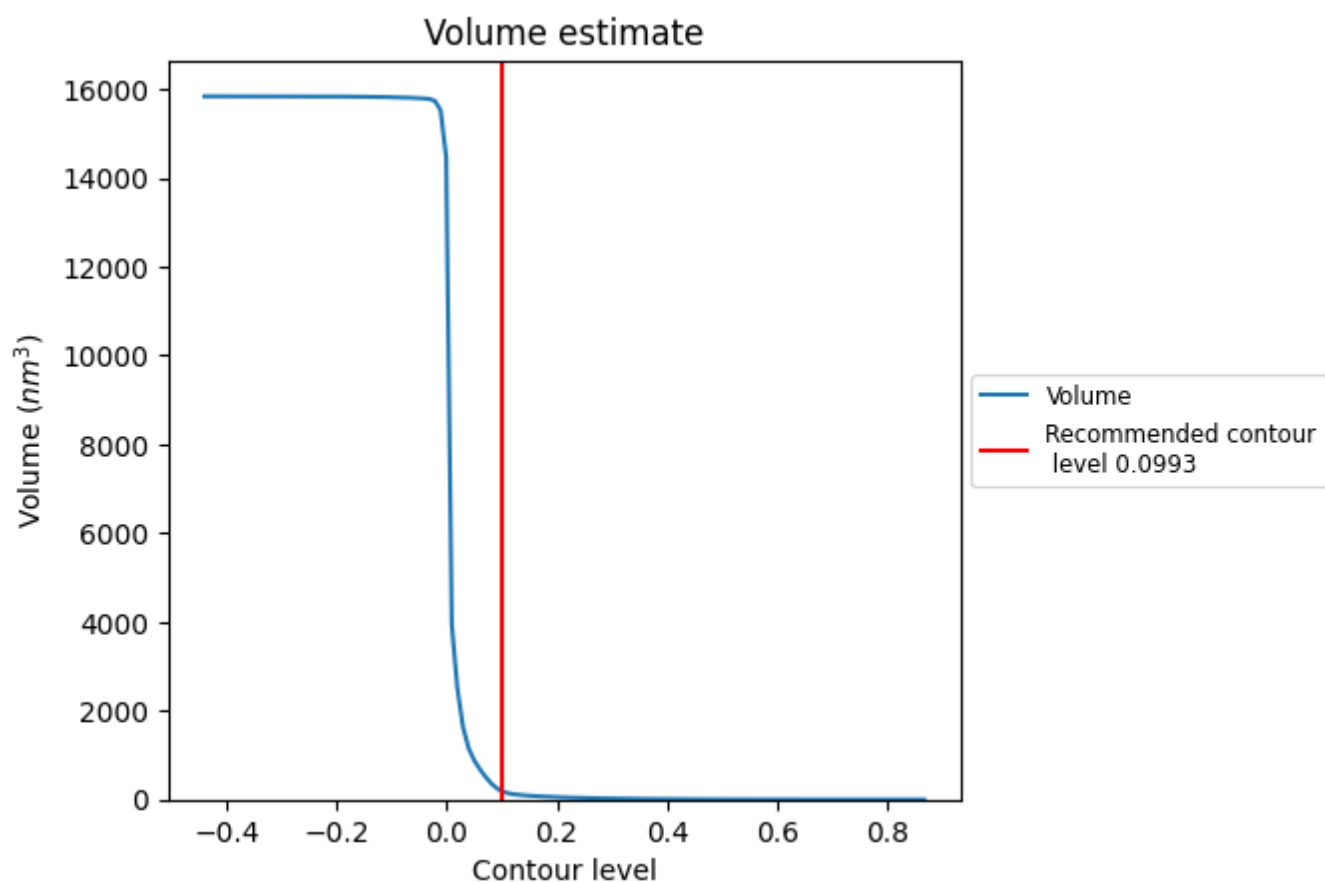
This section contains the results of statistical analysis of the map.

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.

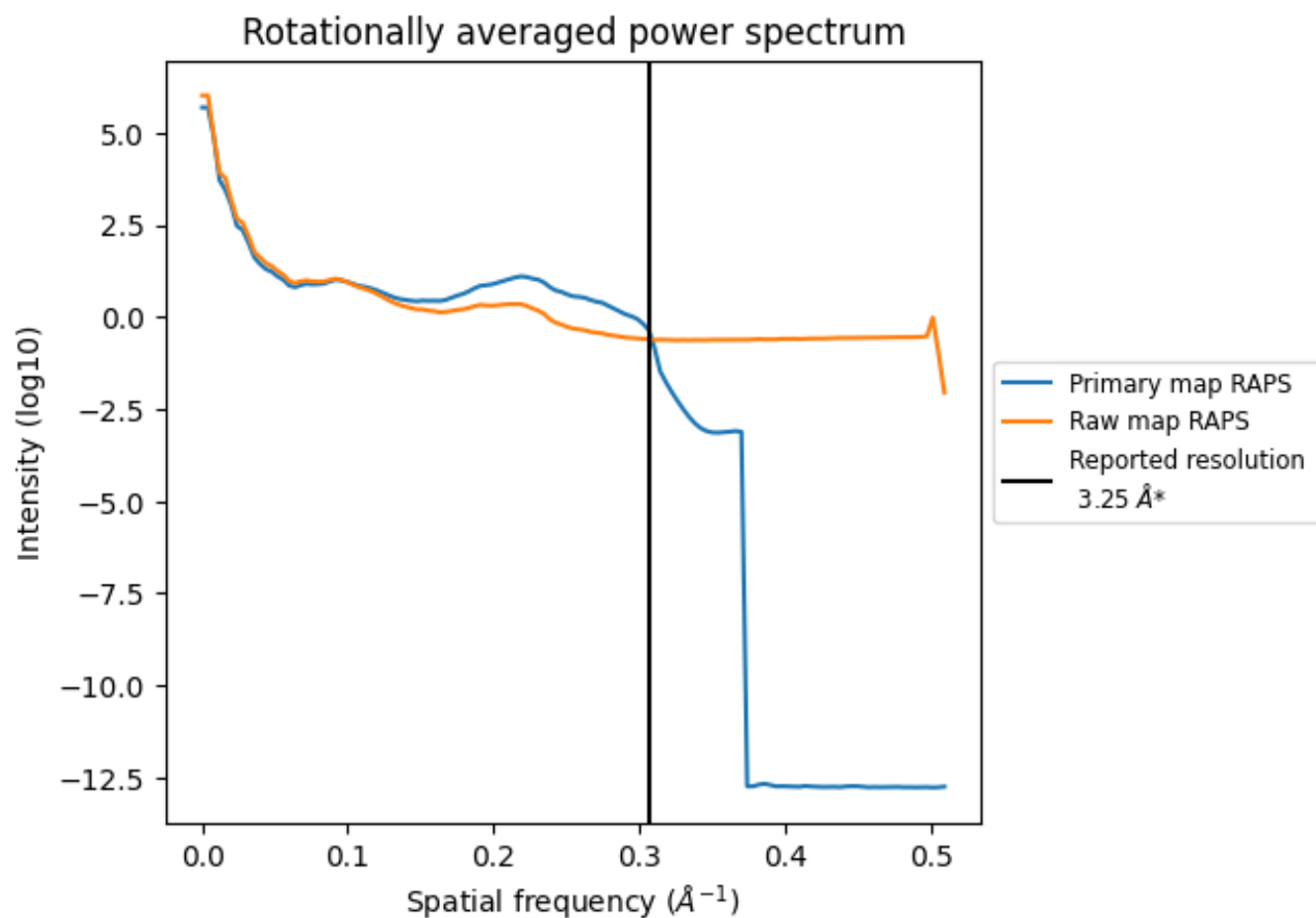
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 195 nm³; this corresponds to an approximate mass of 176 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 ⓘ

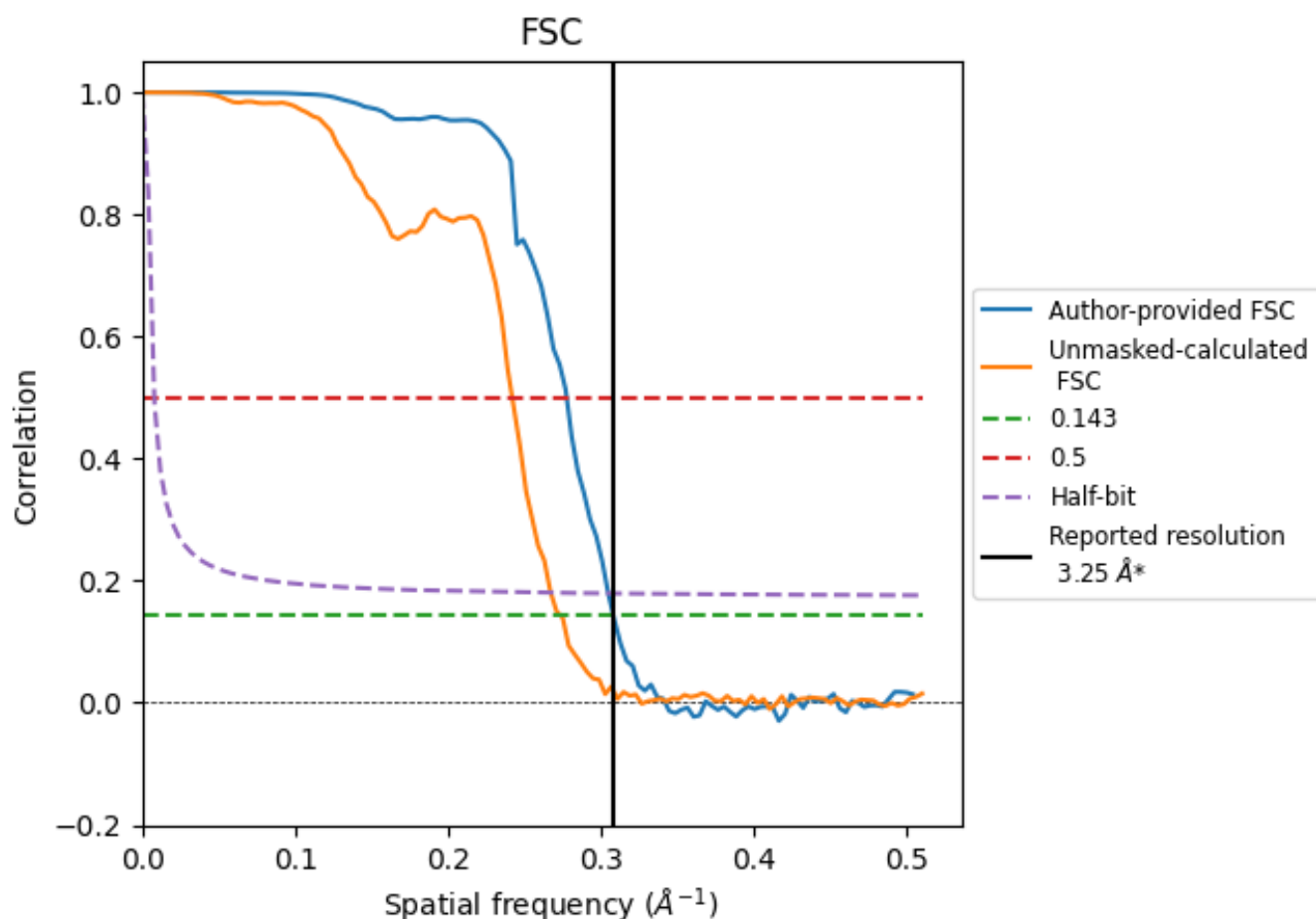


*Reported resolution corresponds to spatial frequency of 0.308 \AA^{-1}

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 0.308 \AA^{-1}

8.2 Resolution estimates [i](#)

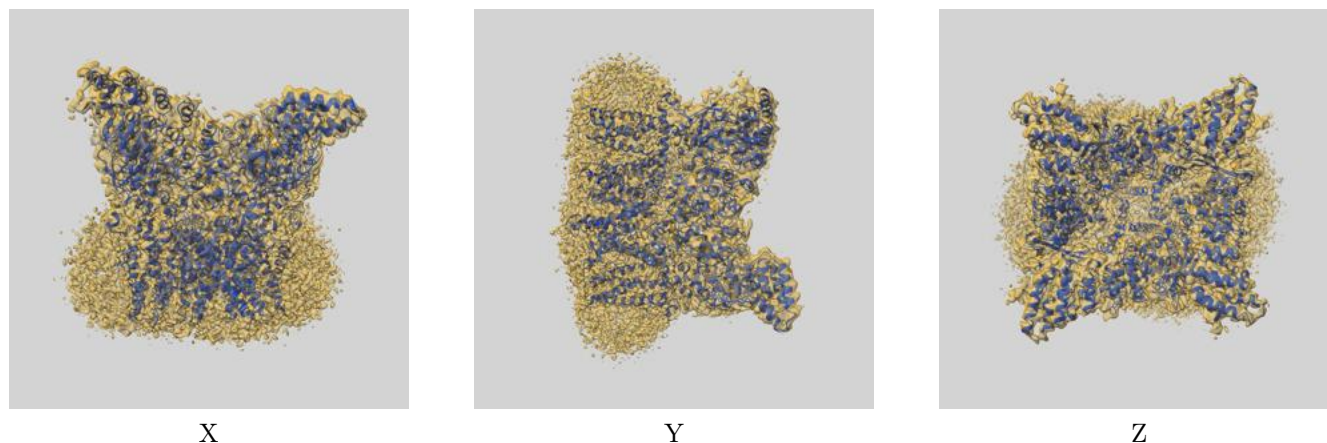
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.25	-	-
Author-provided FSC curve	3.25	3.60	3.28
Unmasked-calculated*	3.66	4.13	3.75

*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 3.66 differs from the reported value 3.25 by more than 10 %

9 Map-model fit [i](#)

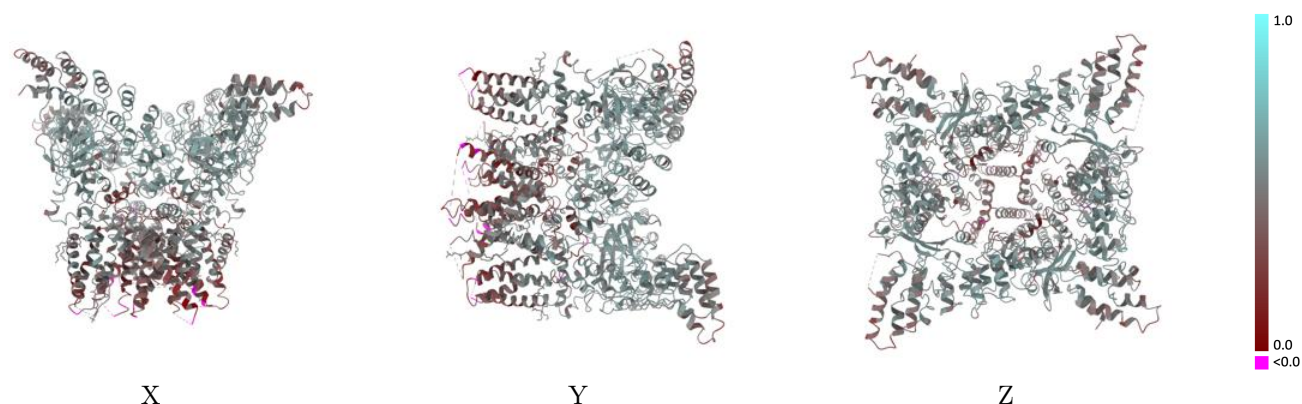
This section contains information regarding the fit between EMDB map EMD-77144 and PDB model 13LT. Per-residue inclusion information can be found in [section 3](#) on [page 8](#).

9.1 Map-model overlay [i](#)



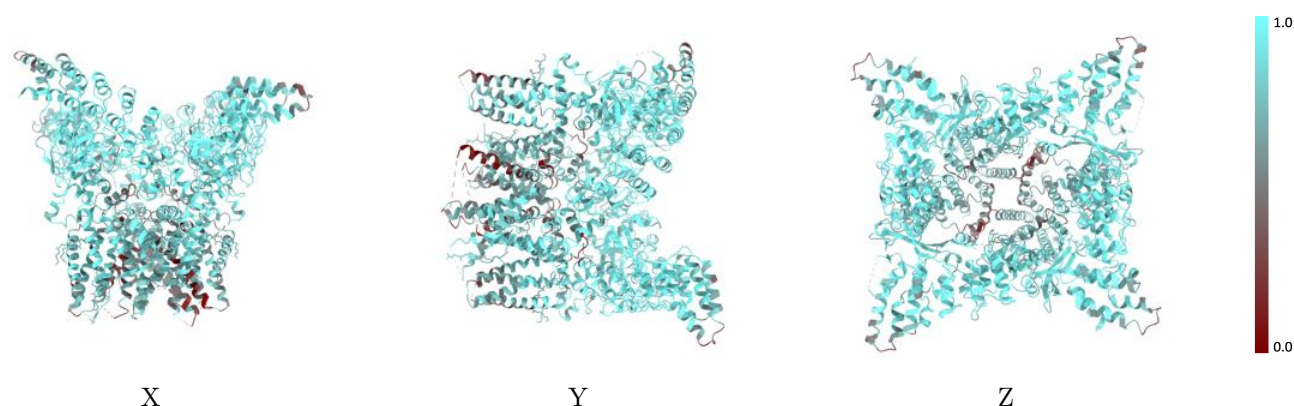
The images above show the 3D surface view of the map at the recommended contour level 0.0993 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



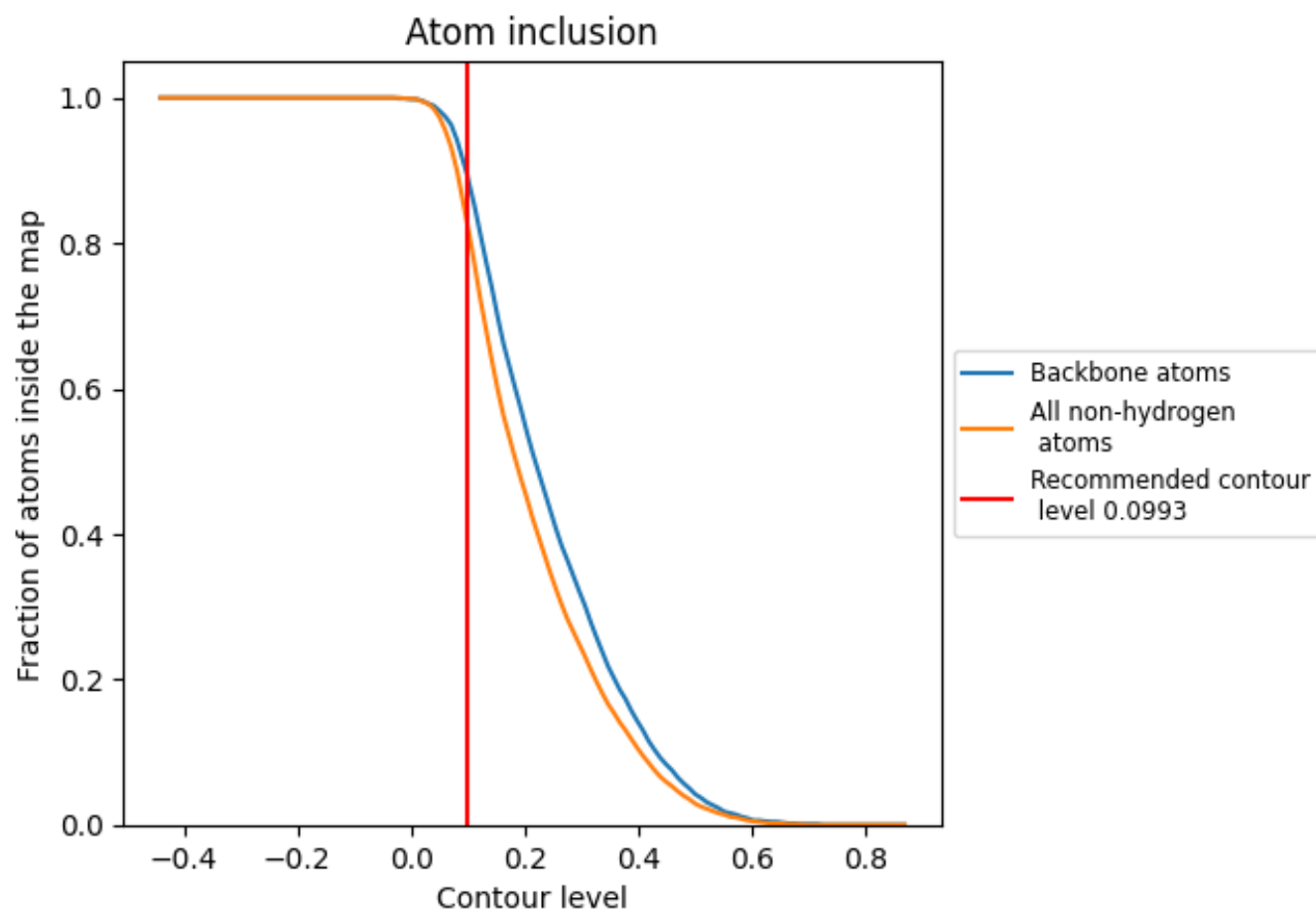
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.0993).

9.4 Atom inclusion [i](#)



At the recommended contour level, 89% of all backbone atoms, 82% 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 (0.0993) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	<div><div></div></div> 0.8250	<div><div></div></div> 0.4690
A	<div><div></div></div> 0.8020	<div><div></div></div> 0.4610
B	<div><div></div></div> 0.8480	<div><div></div></div> 0.4770
C	<div><div></div></div> 0.8010	<div><div></div></div> 0.4580
D	<div><div></div></div> 0.8480	<div><div></div></div> 0.4780

