



Full wwPDB EM Validation Report ⓘ

Mar 8, 2026 – 12:52 PM UTC

PDB ID : 5N97 / pdb_00005n97
EMDB ID : EMD-3604
Title : Structure of the C. crescentus S-layer
Authors : Bharat, T.A.; Hagen, W.J.; Briggs, J.A.; Lowe, J.
Deposited on : 2017-02-24
Resolution : 7.40 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
MolProbity : 4-5-2 with Phenix2.0
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

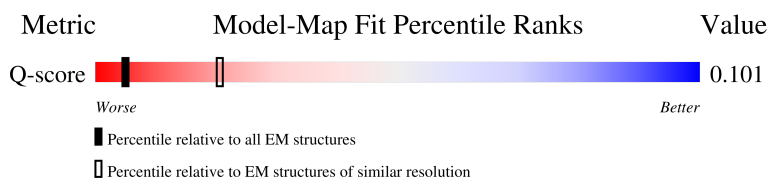
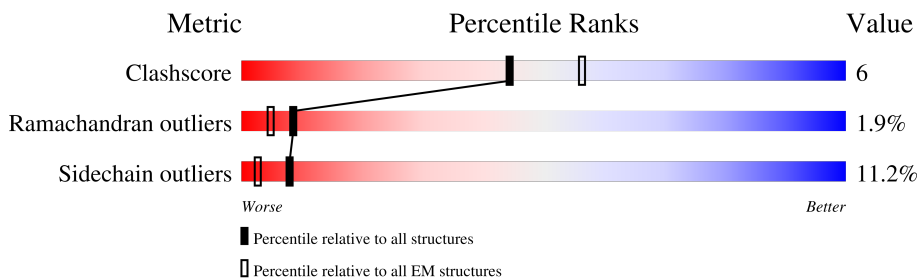
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 7.40 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	412 (6.90 - 7.90)

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	778	
1	B	778	
1	C	778	
1	D	778	

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Mol	Chain	Length	Quality of chain
1	E	778	23% 79% 18%
1	F	778	17% 79% 17%

2 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 30912 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 S-layer protein rsaA.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	778	Total	C	N	O	S	0	0
			5133	3124	862	1145	2		
1	B	778	Total	C	N	O	S	0	0
			5133	3124	862	1145	2		
1	C	778	Total	C	N	O	S	0	0
			5133	3124	862	1145	2		
1	D	778	Total	C	N	O	S	0	0
			5133	3124	862	1145	2		
1	E	778	Total	C	N	O	S	0	0
			5133	3124	862	1145	2		
1	F	778	Total	C	N	O	S	0	0
			5133	3124	862	1145	2		

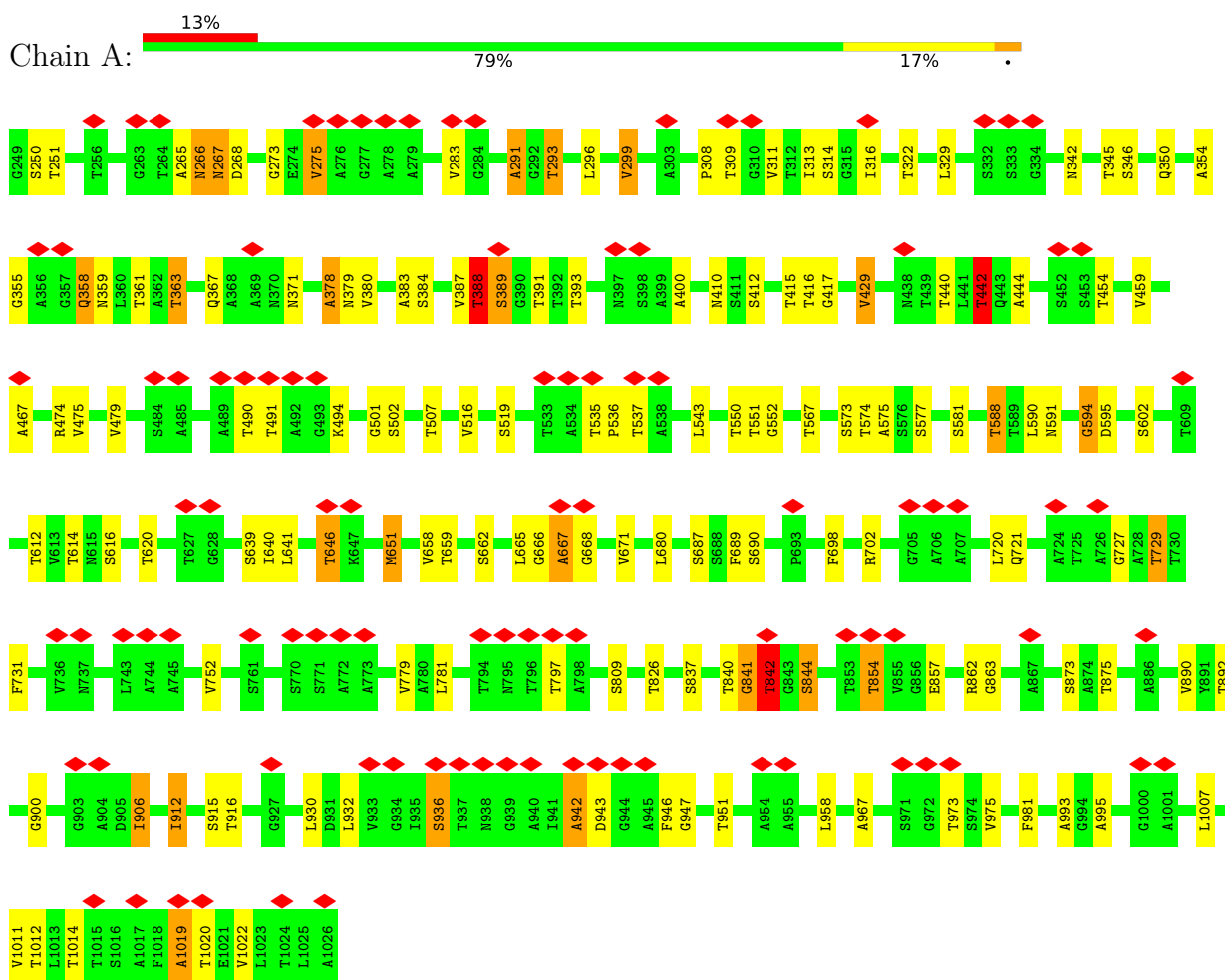
- Molecule 2 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		AltConf
2	A	19	Total	Ca	0
			19	19	
2	B	19	Total	Ca	0
			19	19	
2	C	19	Total	Ca	0
			19	19	
2	D	19	Total	Ca	0
			19	19	
2	E	19	Total	Ca	0
			19	19	
2	F	19	Total	Ca	0
			19	19	

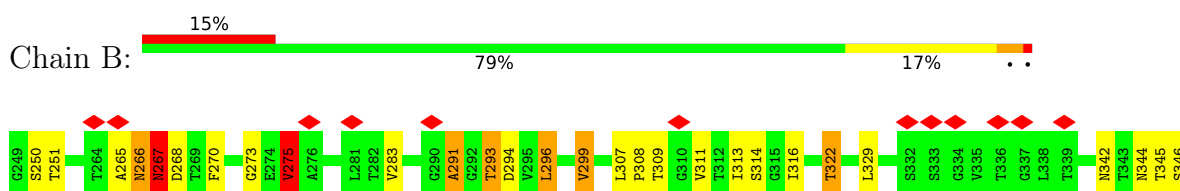
3 Residue-property plots

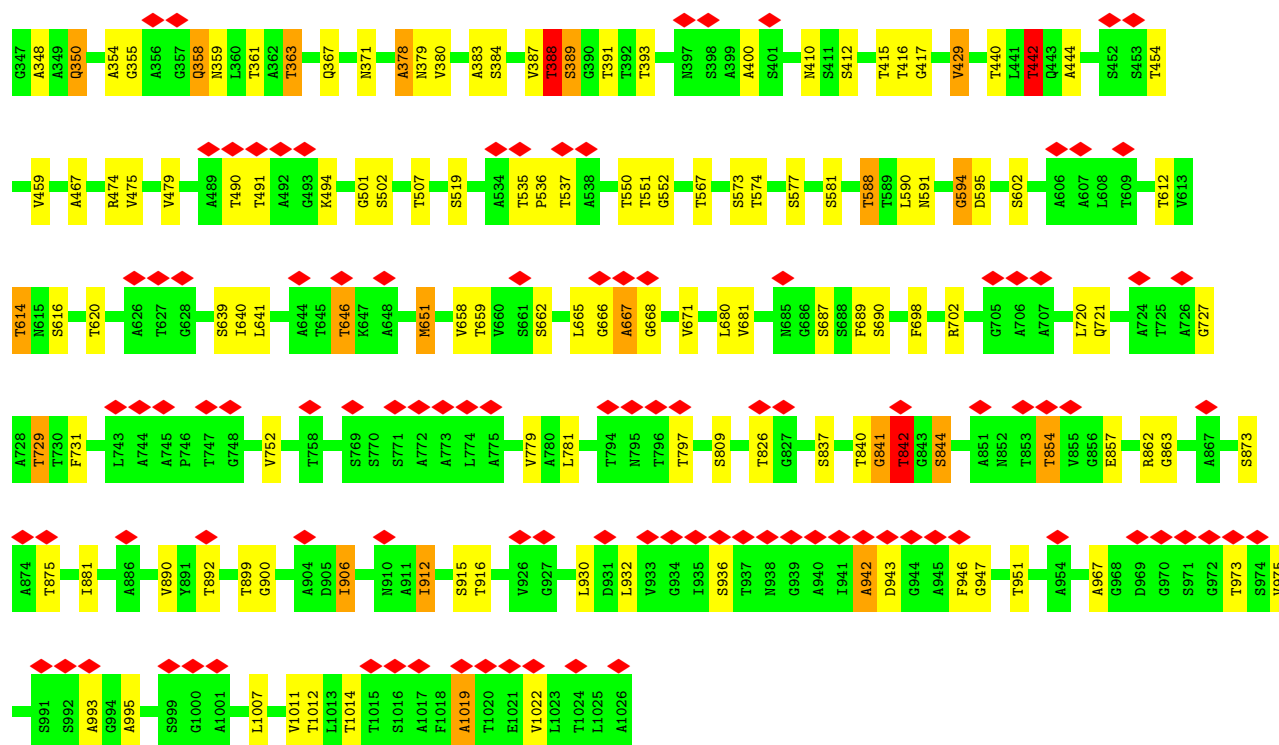
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion 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: S-layer protein rsaA

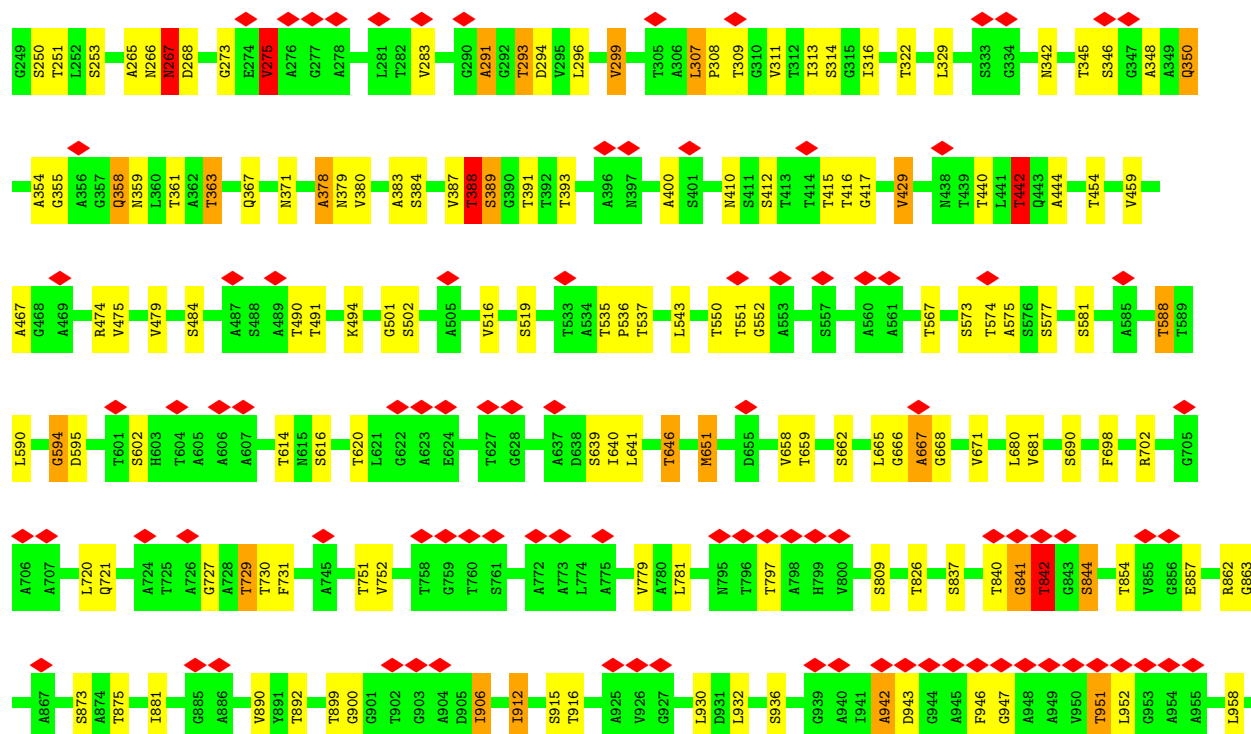
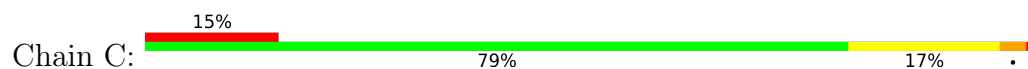


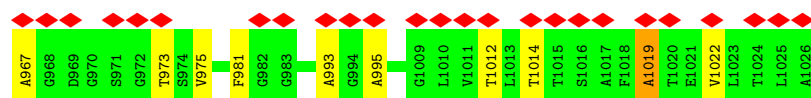
• Molecule 1: S-layer protein rsaA



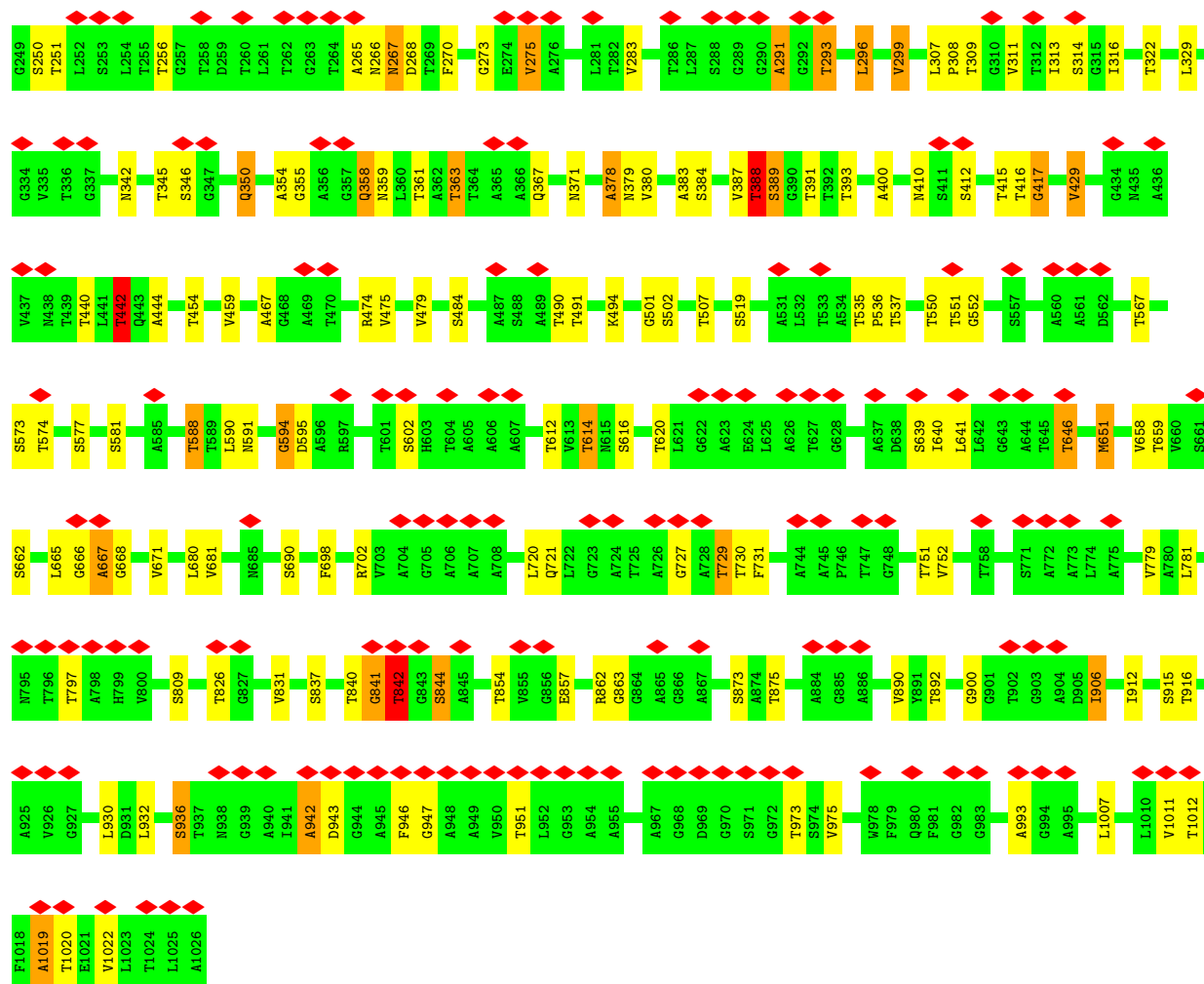
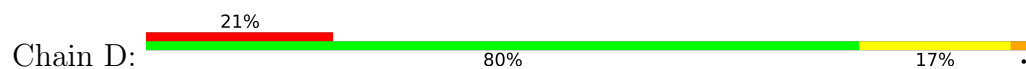


• Molecule 1: S-layer protein rsaA

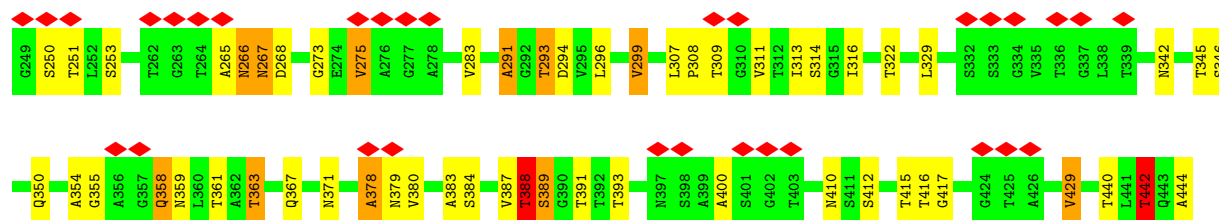
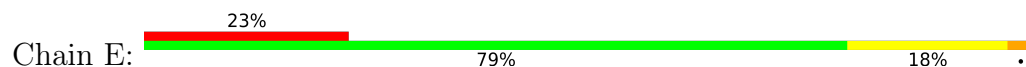


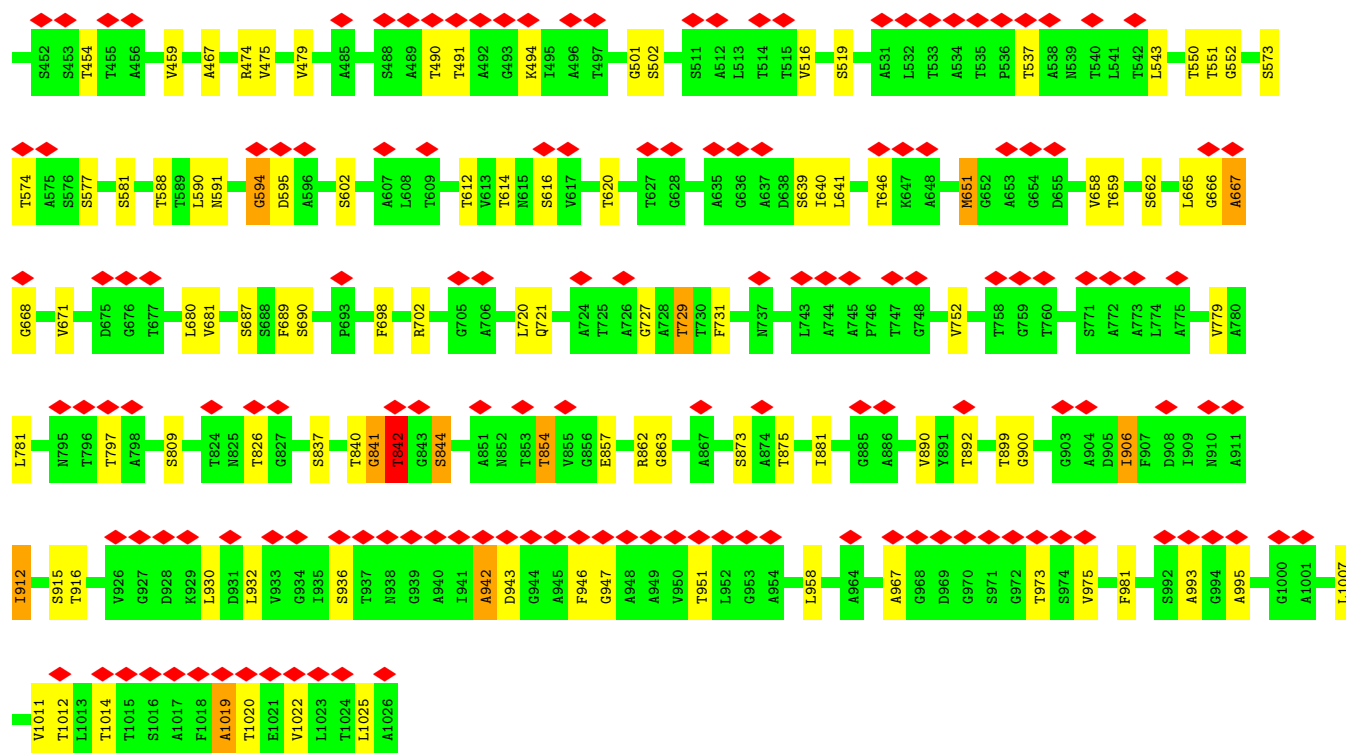


• Molecule 1: S-layer protein rsaA

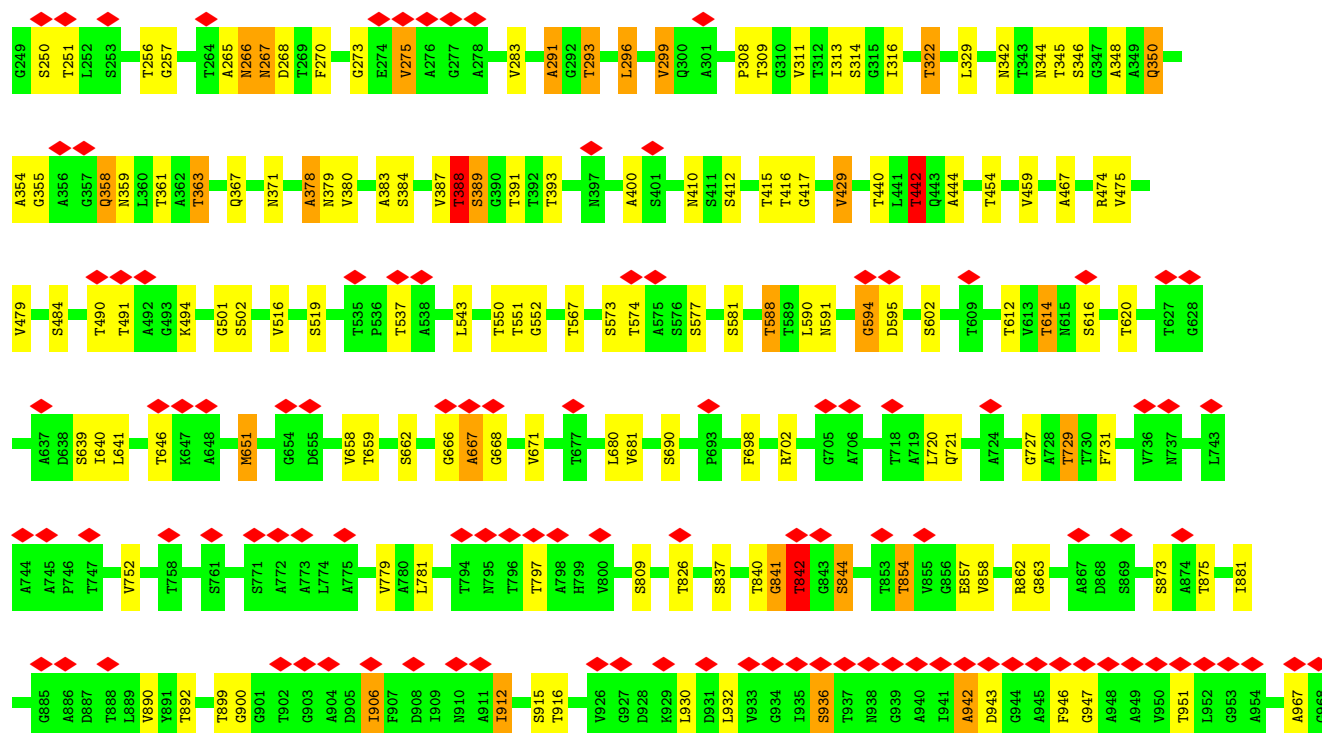
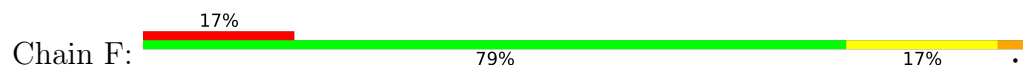


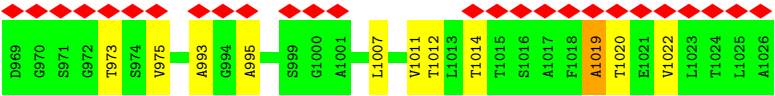
• Molecule 1: S-layer protein rsaA





• Molecule 1: S-layer protein rsaA





4 Experimental information

Property	Value	Source
EM reconstruction method	SUBTOMOGRAM AVERAGING	Depositor
Imposed symmetry	2D CRYSTAL, $a=220$ Å, $b=220$ Å, $c=220$ Å, $\gamma=1^\circ$, space group=P 1 21	Depositor
Number of subtomograms used	51866	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION; Following Schur et al, 2016	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	3.4	Depositor
Minimum defocus (nm)	2000	Depositor
Maximum defocus (nm)	5000	Depositor
Magnification	105000	Depositor
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.505	Depositor
Minimum map value	-0.252	Depositor
Average map value	-0.010	Depositor
Map value standard deviation	0.057	Depositor
Recommended contour level	0.11	Depositor
Map size (Å)	270.0, 270.0, 270.0	wwPDB
Map dimensions	200, 200, 200	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.35, 1.35, 1.35	Depositor

5 Model quality

5.1 Standard geometry

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

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	0.98	5/5166 (0.1%)	1.22	16/7112 (0.2%)
1	B	0.96	5/5166 (0.1%)	1.22	20/7112 (0.3%)
1	C	0.99	5/5166 (0.1%)	1.23	22/7112 (0.3%)
1	D	0.99	5/5166 (0.1%)	1.22	22/7112 (0.3%)
1	E	0.97	4/5166 (0.1%)	1.22	21/7112 (0.3%)
1	F	0.98	5/5166 (0.1%)	1.22	17/7112 (0.2%)
All	All	0.98	29/30996 (0.1%)	1.22	118/42672 (0.3%)

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	A	0	1
1	B	0	1
1	C	0	1
1	D	0	1
1	E	0	1
1	F	0	1
All	All	0	6

All (29) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	842	THR	CA-CB	9.37	1.69	1.53
1	B	842	THR	CA-CB	8.78	1.68	1.53
1	A	842	THR	CA-CB	8.62	1.68	1.53
1	E	842	THR	CA-CB	8.45	1.67	1.53
1	C	842	THR	CA-CB	8.13	1.67	1.53
1	D	842	THR	CA-CB	8.06	1.67	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	842	THR	N-CA	6.51	1.54	1.46
1	A	842	THR	N-CA	6.29	1.54	1.46
1	E	841	GLY	N-CA	6.28	1.53	1.45
1	D	842	THR	N-CA	6.24	1.54	1.46
1	F	842	THR	N-CA	6.16	1.54	1.46
1	A	841	GLY	N-CA	5.96	1.53	1.45
1	E	1025	LEU	C-N	5.93	1.41	1.33
1	B	842	THR	N-CA	5.84	1.53	1.46
1	F	841	GLY	N-CA	5.84	1.53	1.45
1	C	842	THR	N-CA	5.78	1.53	1.46
1	F	840	THR	CA-C	5.68	1.60	1.52
1	B	841	GLY	N-CA	5.66	1.52	1.45
1	D	841	GLY	N-CA	5.66	1.52	1.45
1	C	840	THR	CA-C	5.58	1.60	1.52
1	F	484	SER	N-CA	5.43	1.52	1.46
1	C	841	GLY	N-CA	5.31	1.52	1.45
1	A	840	THR	CA-C	5.28	1.59	1.52
1	C	484	SER	N-CA	5.27	1.52	1.46
1	B	840	THR	CA-C	5.25	1.59	1.52
1	A	906	ILE	CA-CB	5.11	1.60	1.54
1	B	906	ILE	CA-CB	5.09	1.60	1.54
1	D	484	SER	N-CA	5.04	1.52	1.46
1	D	840	THR	CA-C	5.03	1.59	1.52

All (118) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	840	THR	N-CA-C	12.63	129.71	114.04
1	E	840	THR	N-CA-C	12.51	129.56	114.04
1	C	840	THR	N-CA-C	12.21	129.18	114.04
1	D	840	THR	N-CA-C	12.10	129.05	114.04
1	F	840	THR	N-CA-C	12.06	129.00	114.04
1	A	840	THR	N-CA-C	12.03	128.96	114.04
1	E	387	VAL	N-CA-C	10.58	120.37	110.74
1	C	387	VAL	N-CA-C	10.37	120.17	110.74
1	A	387	VAL	N-CA-C	10.18	120.01	110.74
1	F	387	VAL	N-CA-C	9.96	119.80	110.74
1	B	387	VAL	N-CA-C	9.88	119.73	110.74
1	D	387	VAL	N-CA-C	9.84	119.69	110.74
1	F	594	GLY	N-CA-C	7.56	120.75	111.45
1	E	594	GLY	N-CA-C	7.46	120.63	111.45
1	A	594	GLY	N-CA-C	7.37	120.52	111.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	594	GLY	N-CA-C	7.37	120.51	111.45
1	D	594	GLY	N-CA-C	7.30	120.43	111.45
1	B	594	GLY	N-CA-C	7.29	120.41	111.45
1	A	275	VAL	CB-CA-C	7.13	117.77	111.71
1	D	275	VAL	CB-CA-C	6.68	117.39	111.71
1	F	275	VAL	CB-CA-C	6.68	117.39	111.71
1	A	841	GLY	N-CA-C	6.64	121.99	112.82
1	B	841	GLY	N-CA-C	6.54	121.85	112.82
1	D	639	SER	N-CA-C	6.44	118.55	107.93
1	B	275	VAL	CB-CA-C	6.39	117.14	111.71
1	E	906	ILE	CB-CA-C	6.27	119.68	110.77
1	E	841	GLY	N-CA-C	6.18	121.34	112.82
1	F	906	ILE	CB-CA-C	6.17	119.53	110.77
1	C	841	GLY	N-CA-C	6.10	121.24	112.82
1	C	275	VAL	CB-CA-C	6.05	116.85	111.71
1	C	906	ILE	CB-CA-C	6.04	119.35	110.77
1	E	291	ALA	N-CA-C	6.03	117.82	110.41
1	D	906	ILE	CB-CA-C	6.01	119.31	110.77
1	B	639	SER	N-CA-C	6.01	117.84	107.93
1	A	906	ILE	CB-CA-C	5.98	119.27	110.77
1	F	900	GLY	N-CA-C	-5.93	99.75	111.31
1	D	841	GLY	N-CA-C	5.91	120.97	112.82
1	C	639	SER	N-CA-C	5.90	117.67	107.93
1	F	639	SER	N-CA-C	5.90	117.67	107.93
1	A	900	GLY	N-CA-C	-5.90	99.81	111.31
1	C	900	GLY	N-CA-C	-5.89	99.82	111.31
1	B	906	ILE	CB-CA-C	5.89	119.13	110.77
1	D	291	ALA	N-CA-C	5.89	117.65	110.41
1	F	291	ALA	N-CA-C	5.88	117.64	110.41
1	F	841	GLY	N-CA-C	5.87	120.92	112.82
1	A	291	ALA	N-CA-C	5.84	117.59	110.41
1	E	900	GLY	N-CA-C	-5.78	100.04	111.31
1	A	639	SER	N-CA-C	5.77	117.53	107.49
1	C	389	SER	N-CA-C	5.73	119.09	111.75
1	E	275	VAL	N-CA-CB	5.67	117.18	111.57
1	E	389	SER	N-CA-C	5.63	118.96	111.75
1	D	389	SER	N-CA-C	5.63	118.95	111.75
1	B	442	THR	CB-CA-C	5.57	118.94	109.75
1	E	275	VAL	CB-CA-C	5.57	116.44	111.71
1	A	388	THR	N-CA-C	5.55	116.21	108.00
1	B	307	LEU	CA-C-N	-5.53	114.89	120.31
1	B	307	LEU	C-N-CA	-5.53	114.89	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	639	SER	N-CA-C	5.53	117.05	107.93
1	D	900	GLY	N-CA-C	-5.51	100.56	111.31
1	E	307	LEU	CA-C-N	-5.50	114.92	120.31
1	E	307	LEU	C-N-CA	-5.50	114.92	120.31
1	D	442	THR	CB-CA-C	5.49	118.81	109.75
1	F	389	SER	N-CA-C	5.47	118.75	111.75
1	E	890	VAL	N-CA-C	5.46	115.82	108.17
1	A	389	SER	N-CA-C	5.46	118.73	111.75
1	C	275	VAL	CA-C-N	-5.43	114.08	123.25
1	C	275	VAL	C-N-CA	-5.43	114.08	123.25
1	A	890	VAL	N-CA-C	5.40	115.73	108.17
1	D	307	LEU	CA-C-N	-5.38	115.03	120.31
1	D	307	LEU	C-N-CA	-5.38	115.03	120.31
1	E	442	THR	CB-CA-C	5.38	118.63	109.75
1	C	616	SER	N-CA-C	5.37	116.82	111.07
1	A	442	THR	CB-CA-C	5.36	118.59	109.75
1	F	442	THR	CB-CA-C	5.35	118.58	109.75
1	D	388	THR	N-CA-C	5.34	115.90	108.00
1	C	442	THR	CB-CA-C	5.33	118.54	109.75
1	B	900	GLY	N-CA-C	-5.31	100.95	111.31
1	B	291	ALA	N-CA-C	5.28	116.91	110.41
1	A	646	THR	N-CA-C	-5.27	106.87	113.72
1	C	842	THR	N-CA-CB	5.26	119.38	110.49
1	F	616	SER	N-CA-C	5.25	116.69	111.07
1	D	890	VAL	N-CA-C	5.25	115.52	108.17
1	B	389	SER	N-CA-C	5.25	118.47	111.75
1	C	388	THR	N-CA-C	5.24	115.76	108.00
1	C	307	LEU	CA-C-N	-5.24	115.18	120.31
1	C	307	LEU	C-N-CA	-5.24	115.18	120.31
1	C	890	VAL	N-CA-C	5.24	115.50	108.17
1	E	275	VAL	CA-C-N	-5.23	114.40	123.25
1	E	275	VAL	C-N-CA	-5.23	114.40	123.25
1	E	616	SER	N-CA-C	5.23	116.67	111.07
1	B	388	THR	N-CA-C	5.22	115.73	108.00
1	B	294	ASP	N-CA-C	5.22	117.75	109.24
1	D	831	VAL	N-CA-C	5.21	115.11	108.12
1	C	294	ASP	N-CA-C	5.19	117.70	109.24
1	E	388	THR	N-CA-C	5.17	115.66	108.00
1	B	616	SER	N-CA-C	5.17	116.60	111.07
1	B	646	THR	N-CA-C	-5.16	107.01	113.72
1	F	388	THR	N-CA-C	5.16	115.64	108.00
1	E	253	SER	N-CA-C	5.15	117.13	108.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	614	THR	N-CA-C	-5.13	105.78	113.89
1	F	890	VAL	N-CA-C	5.13	115.35	108.17
1	D	275	VAL	CA-C-N	-5.13	114.58	123.25
1	D	275	VAL	C-N-CA	-5.13	114.58	123.25
1	A	616	SER	N-CA-C	5.12	116.55	111.07
1	C	291	ALA	N-CA-C	5.12	116.71	110.41
1	A	842	THR	N-CA-CB	5.12	119.14	110.49
1	B	890	VAL	N-CA-C	5.12	115.33	108.17
1	C	646	THR	N-CA-C	-5.11	107.07	113.72
1	D	842	THR	N-CA-CB	5.08	119.08	110.49
1	D	646	THR	N-CA-C	-5.08	107.11	113.72
1	D	616	SER	N-CA-C	5.07	116.50	111.07
1	F	614	THR	N-CA-C	-5.04	105.92	113.89
1	F	842	THR	CA-CB-CG2	5.04	119.07	110.50
1	F	842	THR	N-CA-CB	5.04	119.00	110.49
1	C	253	SER	N-CA-C	5.03	116.93	108.73
1	E	294	ASP	N-CA-C	5.02	117.42	109.24
1	B	614	THR	N-CA-C	-5.01	105.97	113.89
1	B	842	THR	N-CA-CB	5.01	118.96	110.49

There are no chirality outliers.

All (6) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	594	GLY	Peptide
1	B	594	GLY	Peptide
1	C	594	GLY	Peptide
1	D	594	GLY	Peptide
1	E	594	GLY	Peptide
1	F	594	GLY	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	5133	0	5071	63	0
1	B	5133	0	5071	68	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	C	5133	0	5071	68	0
1	D	5133	0	5071	65	0
1	E	5133	0	5071	61	0
1	F	5133	0	5072	71	0
2	A	19	0	0	0	0
2	B	19	0	0	0	0
2	C	19	0	0	0	0
2	D	19	0	0	0	0
2	E	19	0	0	0	0
2	F	19	0	0	0	0
All	All	30912	0	30427	392	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 6.

All (392) 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:265:ALA:HA	1:B:291:ALA:H	1.21	1.05
1:E:265:ALA:HA	1:E:291:ALA:H	1.22	1.05
1:C:265:ALA:HA	1:C:291:ALA:H	1.22	1.04
1:A:265:ALA:HA	1:A:291:ALA:H	1.22	1.03
1:F:265:ALA:HA	1:F:291:ALA:H	1.22	1.00
1:D:265:ALA:HA	1:D:291:ALA:H	1.22	0.98
1:C:275:VAL:O	1:F:256:THR:O	1.88	0.90
1:B:442:THR:HB	1:B:475:VAL:HB	1.59	0.84
1:F:442:THR:HB	1:F:475:VAL:HB	1.60	0.83
1:C:442:THR:HB	1:C:475:VAL:HB	1.60	0.83
1:D:442:THR:HB	1:D:475:VAL:HB	1.60	0.82
1:E:442:THR:HB	1:E:475:VAL:HB	1.60	0.82
1:A:442:THR:HB	1:A:475:VAL:HB	1.61	0.82
1:B:342:ASN:HD22	1:B:361:THR:HB	1.54	0.72
1:E:342:ASN:HD22	1:E:361:THR:HB	1.56	0.71
1:C:342:ASN:HD22	1:C:361:THR:HB	1.56	0.71
1:C:275:VAL:HA	1:F:257:GLY:HA2	1.72	0.71
1:A:342:ASN:HD22	1:A:361:THR:HB	1.56	0.70
1:F:342:ASN:HD22	1:F:361:THR:HB	1.55	0.70
1:D:342:ASN:HD22	1:D:361:THR:HB	1.56	0.70
1:F:640:ILE:HG12	1:F:651:MET:HE1	1.74	0.70
1:D:265:ALA:HA	1:D:291:ALA:N	2.04	0.69
1:F:265:ALA:HA	1:F:291:ALA:N	2.04	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:640:ILE:HG12	1:E:651:MET:HE1	1.75	0.69
1:E:947:GLY:O	1:E:1014:THR:HA	1.94	0.68
1:F:947:GLY:O	1:F:1014:THR:HA	1.94	0.68
1:D:947:GLY:O	1:D:1014:THR:HA	1.94	0.68
1:C:947:GLY:O	1:C:1014:THR:HA	1.94	0.68
1:C:265:ALA:HA	1:C:291:ALA:N	2.04	0.68
1:A:702:ARG:HB2	1:A:721:GLN:HB2	1.75	0.67
1:B:947:GLY:O	1:B:1014:THR:HA	1.94	0.67
1:D:640:ILE:HG12	1:D:651:MET:HE1	1.77	0.67
1:B:640:ILE:HG12	1:B:651:MET:HE1	1.76	0.66
1:F:702:ARG:HB2	1:F:721:GLN:HB2	1.76	0.66
1:C:702:ARG:HB2	1:C:721:GLN:HB2	1.77	0.66
1:A:640:ILE:HG12	1:A:651:MET:HE1	1.77	0.66
1:B:702:ARG:HB2	1:B:721:GLN:HB2	1.77	0.66
1:A:947:GLY:O	1:A:1014:THR:HA	1.94	0.66
1:C:640:ILE:HG12	1:C:651:MET:HE1	1.77	0.65
1:A:265:ALA:HA	1:A:291:ALA:N	2.04	0.65
1:E:702:ARG:HB2	1:E:721:GLN:HB2	1.77	0.65
1:B:265:ALA:HA	1:B:291:ALA:N	2.03	0.64
1:D:702:ARG:HB2	1:D:721:GLN:HB2	1.77	0.64
1:E:265:ALA:HA	1:E:291:ALA:N	2.03	0.64
1:A:265:ALA:CA	1:A:291:ALA:H	2.08	0.61
1:C:841:GLY:H	1:C:844:SER:HG	1.48	0.60
1:E:841:GLY:N	1:E:844:SER:OG	2.33	0.60
1:E:410:ASN:OD1	1:E:412:SER:HB3	2.04	0.58
1:B:501:GLY:HA2	1:B:519:SER:HB3	1.86	0.58
1:A:359:ASN:ND2	1:A:379:ASN:H	2.02	0.58
1:F:912:ILE:HD12	1:F:912:ILE:H	1.69	0.58
1:B:410:ASN:OD1	1:B:412:SER:HB3	2.04	0.57
1:C:410:ASN:OD1	1:C:412:SER:HB3	2.04	0.57
1:D:313:ILE:HG23	1:D:316:ILE:HD12	1.86	0.57
1:A:416:THR:O	1:A:416:THR:HG22	2.05	0.57
1:A:410:ASN:OD1	1:A:412:SER:HB3	2.05	0.57
1:D:912:ILE:HD12	1:D:912:ILE:H	1.70	0.57
1:E:359:ASN:ND2	1:E:379:ASN:H	2.02	0.57
1:F:410:ASN:OD1	1:F:412:SER:HB3	2.04	0.57
1:F:501:GLY:HA2	1:F:519:SER:HB3	1.86	0.57
1:B:841:GLY:N	1:B:844:SER:OG	2.33	0.57
1:C:501:GLY:HA2	1:C:519:SER:HB3	1.87	0.57
1:D:841:GLY:N	1:D:844:SER:OG	2.33	0.57
1:A:440:THR:OG1	1:A:467:ALA:HB2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:416:THR:HG22	1:B:416:THR:O	2.04	0.57
1:A:1019:ALA:HB3	1:A:1022:VAL:HB	1.87	0.57
1:B:841:GLY:H	1:B:844:SER:HG	1.53	0.57
1:C:359:ASN:ND2	1:C:379:ASN:H	2.03	0.57
1:C:416:THR:HG22	1:C:416:THR:O	2.05	0.57
1:C:1019:ALA:HB3	1:C:1022:VAL:HB	1.87	0.57
1:D:410:ASN:OD1	1:D:412:SER:HB3	2.05	0.57
1:D:416:THR:O	1:D:416:THR:HG22	2.04	0.57
1:F:359:ASN:ND2	1:F:379:ASN:H	2.03	0.57
1:F:416:THR:O	1:F:416:THR:HG22	2.05	0.57
1:B:440:THR:OG1	1:B:467:ALA:HB2	2.04	0.56
1:F:265:ALA:CA	1:F:291:ALA:H	2.08	0.56
1:F:440:THR:OG1	1:F:467:ALA:HB2	2.05	0.56
1:D:359:ASN:ND2	1:D:379:ASN:H	2.03	0.56
1:B:359:ASN:ND2	1:B:379:ASN:H	2.03	0.56
1:C:440:THR:OG1	1:C:467:ALA:HB2	2.05	0.56
1:A:501:GLY:HA2	1:A:519:SER:HB3	1.87	0.56
1:C:912:ILE:H	1:C:912:ILE:HD12	1.70	0.56
1:E:440:THR:OG1	1:E:467:ALA:HB2	2.05	0.56
1:E:1019:ALA:HB3	1:E:1022:VAL:HB	1.88	0.56
1:D:440:THR:OG1	1:D:467:ALA:HB2	2.06	0.56
1:E:912:ILE:H	1:E:912:ILE:HD12	1.71	0.56
1:E:416:THR:HG22	1:E:416:THR:O	2.05	0.55
1:B:313:ILE:HG23	1:B:316:ILE:HD12	1.88	0.55
1:E:501:GLY:HA2	1:E:519:SER:HB3	1.87	0.55
1:F:1019:ALA:HB3	1:F:1022:VAL:HB	1.87	0.55
1:C:313:ILE:HG23	1:C:316:ILE:HD12	1.88	0.55
1:D:265:ALA:CA	1:D:291:ALA:H	2.08	0.55
1:A:841:GLY:N	1:A:844:SER:OG	2.33	0.55
1:D:501:GLY:HA2	1:D:519:SER:HB3	1.88	0.55
1:D:1019:ALA:HB3	1:D:1022:VAL:HB	1.89	0.55
1:B:265:ALA:CA	1:B:291:ALA:H	2.08	0.54
1:D:359:ASN:HD22	1:D:379:ASN:H	1.56	0.54
1:E:313:ILE:HG23	1:E:316:ILE:HD12	1.89	0.54
1:F:313:ILE:HG23	1:F:316:ILE:HD12	1.90	0.54
1:E:265:ALA:CA	1:E:291:ALA:H	2.08	0.54
1:A:313:ILE:HG23	1:A:316:ILE:HD12	1.89	0.54
1:B:1019:ALA:HB3	1:B:1022:VAL:HB	1.88	0.54
1:F:273:GLY:HA2	1:F:299:VAL:HG23	1.90	0.54
1:F:359:ASN:HD22	1:F:379:ASN:H	1.56	0.54
1:C:841:GLY:N	1:C:844:SER:OG	2.33	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:359:ASN:HD22	1:A:379:ASN:H	1.54	0.53
1:C:359:ASN:HD22	1:C:379:ASN:H	1.55	0.53
1:E:359:ASN:HD22	1:E:379:ASN:H	1.54	0.53
1:A:354:ALA:HB1	1:A:358:GLN:HE21	1.74	0.53
1:A:912:ILE:HD12	1:A:912:ILE:H	1.73	0.53
1:B:273:GLY:HA2	1:B:299:VAL:HG23	1.91	0.53
1:C:265:ALA:CA	1:C:291:ALA:H	2.08	0.53
1:C:265:ALA:C	1:C:291:ALA:HB3	2.34	0.52
1:D:354:ALA:HB1	1:D:358:GLN:HE21	1.74	0.52
1:B:930:LEU:HG	1:B:932:LEU:HD21	1.91	0.52
1:C:275:VAL:O	1:F:256:THR:C	2.52	0.52
1:E:354:ALA:HB1	1:E:358:GLN:HE21	1.74	0.52
1:A:273:GLY:HA2	1:A:299:VAL:HG23	1.92	0.52
1:B:359:ASN:HD22	1:B:379:ASN:H	1.56	0.52
1:C:273:GLY:HA2	1:C:299:VAL:HG23	1.92	0.52
1:D:273:GLY:HA2	1:D:299:VAL:HG23	1.91	0.52
1:A:367:GLN:NE2	1:A:384:SER:HB3	2.25	0.52
1:E:265:ALA:C	1:E:291:ALA:HB3	2.35	0.52
1:F:265:ALA:C	1:F:291:ALA:HB3	2.35	0.52
1:B:837:SER:HA	1:B:863:GLY:O	2.10	0.51
1:F:841:GLY:N	1:F:844:SER:OG	2.33	0.51
1:D:265:ALA:C	1:D:291:ALA:HB3	2.35	0.51
1:E:837:SER:HA	1:E:863:GLY:O	2.11	0.51
1:B:354:ALA:HB1	1:B:358:GLN:HE21	1.75	0.51
1:C:354:ALA:HB1	1:C:358:GLN:HE21	1.74	0.51
1:C:367:GLN:NE2	1:C:384:SER:HB3	2.25	0.51
1:F:354:ALA:HB1	1:F:358:GLN:HE21	1.75	0.51
1:C:837:SER:HA	1:C:863:GLY:O	2.11	0.51
1:C:363:THR:HG23	1:C:383:ALA:HB3	1.93	0.51
1:D:355:GLY:H	1:D:358:GLN:NE2	2.09	0.51
1:A:265:ALA:C	1:A:291:ALA:HB3	2.35	0.51
1:B:912:ILE:HD12	1:B:912:ILE:H	1.75	0.51
1:D:837:SER:HA	1:D:863:GLY:O	2.11	0.51
1:F:930:LEU:HG	1:F:932:LEU:HD21	1.93	0.51
1:B:265:ALA:C	1:B:291:ALA:HB3	2.36	0.50
1:D:930:LEU:HG	1:D:932:LEU:HD21	1.93	0.50
1:A:837:SER:HA	1:A:863:GLY:O	2.11	0.50
1:E:273:GLY:HA2	1:E:299:VAL:HG23	1.93	0.50
1:E:720:LEU:HD13	1:E:731:PHE:CD1	2.46	0.50
1:F:837:SER:HA	1:F:863:GLY:O	2.11	0.50
1:B:367:GLN:NE2	1:B:384:SER:HB3	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:416:THR:HB	1:C:444:ALA:HB2	1.92	0.50
1:E:930:LEU:HG	1:E:932:LEU:HD21	1.93	0.50
1:F:355:GLY:H	1:F:358:GLN:NE2	2.10	0.50
1:F:942:ALA:O	1:F:943:ASP:CB	2.60	0.50
1:D:720:LEU:HD13	1:D:731:PHE:CD1	2.47	0.50
1:C:930:LEU:HG	1:C:932:LEU:HD21	1.94	0.50
1:C:942:ALA:O	1:C:943:ASP:CB	2.60	0.50
1:A:363:THR:HG23	1:A:383:ALA:HB3	1.94	0.50
1:E:367:GLN:NE2	1:E:384:SER:HB3	2.26	0.50
1:F:367:GLN:NE2	1:F:384:SER:HB3	2.27	0.50
1:A:416:THR:HB	1:A:444:ALA:HB2	1.93	0.50
1:B:942:ALA:O	1:B:943:ASP:CB	2.60	0.50
1:A:930:LEU:HG	1:A:932:LEU:HD21	1.93	0.49
1:D:371:ASN:ND2	1:D:391:THR:H	2.10	0.49
1:D:416:THR:HB	1:D:444:ALA:HB2	1.94	0.49
1:D:942:ALA:O	1:D:943:ASP:CB	2.59	0.49
1:F:416:THR:HB	1:F:444:ALA:HB2	1.94	0.49
1:B:363:THR:HG23	1:B:383:ALA:HB3	1.94	0.49
1:F:388:THR:OG1	1:F:389:SER:N	2.45	0.49
1:A:720:LEU:HD13	1:A:731:PHE:CD1	2.48	0.49
1:E:416:THR:HB	1:E:444:ALA:HB2	1.93	0.49
1:F:720:LEU:HD13	1:F:731:PHE:CD1	2.48	0.49
1:A:942:ALA:O	1:A:943:ASP:CB	2.60	0.49
1:B:275:VAL:O	1:D:256:THR:O	2.30	0.49
1:B:720:LEU:HD13	1:B:731:PHE:CD1	2.47	0.49
1:E:363:THR:HG23	1:E:383:ALA:HB3	1.95	0.49
1:A:415:THR:HB	1:A:442:THR:O	2.12	0.49
1:A:550:THR:HG22	1:A:552:GLY:H	1.77	0.49
1:B:550:THR:HG22	1:B:552:GLY:H	1.77	0.49
1:E:942:ALA:O	1:E:943:ASP:CB	2.60	0.49
1:F:371:ASN:ND2	1:F:391:THR:H	2.11	0.49
1:B:355:GLY:H	1:B:358:GLN:NE2	2.10	0.49
1:B:416:THR:HB	1:B:444:ALA:HB2	1.94	0.49
1:D:666:GLY:O	1:D:667:ALA:C	2.56	0.49
1:A:666:GLY:O	1:A:667:ALA:C	2.56	0.49
1:D:367:GLN:NE2	1:D:384:SER:HB3	2.27	0.49
1:E:550:THR:HG22	1:E:552:GLY:H	1.77	0.49
1:D:308:PRO:HD2	1:D:311:VAL:HG21	1.95	0.48
1:F:363:THR:HG23	1:F:383:ALA:HB3	1.94	0.48
1:A:371:ASN:ND2	1:A:391:THR:H	2.11	0.48
1:C:550:THR:HG22	1:C:552:GLY:H	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:415:THR:HB	1:D:442:THR:O	2.13	0.48
1:E:666:GLY:O	1:E:667:ALA:C	2.56	0.48
1:B:415:THR:HB	1:B:442:THR:O	2.13	0.48
1:C:371:ASN:ND2	1:C:391:THR:H	2.11	0.48
1:E:371:ASN:ND2	1:E:391:THR:H	2.10	0.48
1:F:550:THR:HG22	1:F:552:GLY:H	1.78	0.48
1:A:355:GLY:H	1:A:358:GLN:NE2	2.11	0.48
1:D:641:LEU:HG	1:D:659:THR:HB	1.95	0.48
1:C:720:LEU:HD13	1:C:731:PHE:CD1	2.48	0.48
1:C:666:GLY:O	1:C:667:ALA:C	2.56	0.48
1:E:415:THR:HB	1:E:442:THR:O	2.14	0.48
1:B:371:ASN:ND2	1:B:391:THR:H	2.11	0.48
1:B:666:GLY:O	1:B:667:ALA:C	2.56	0.48
1:E:355:GLY:H	1:E:358:GLN:NE2	2.11	0.48
1:E:752:VAL:HB	1:E:781:LEU:HD23	1.95	0.48
1:C:752:VAL:HB	1:C:781:LEU:HD23	1.96	0.47
1:D:550:THR:HG22	1:D:552:GLY:H	1.79	0.47
1:F:415:THR:HB	1:F:442:THR:O	2.13	0.47
1:D:936:SER:O	1:D:936:SER:OG	2.30	0.47
1:F:666:GLY:O	1:F:667:ALA:C	2.56	0.47
1:D:752:VAL:HB	1:D:781:LEU:HD23	1.96	0.47
1:C:415:THR:HB	1:C:442:THR:O	2.13	0.47
1:C:355:GLY:H	1:C:358:GLN:NE2	2.11	0.47
1:F:345:THR:HG22	1:F:346:SER:N	2.30	0.47
1:F:641:LEU:HG	1:F:659:THR:HB	1.96	0.47
1:B:752:VAL:HB	1:B:781:LEU:HD23	1.95	0.47
1:C:388:THR:OG1	1:C:389:SER:N	2.46	0.47
1:E:388:THR:OG1	1:E:389:SER:N	2.46	0.47
1:C:641:LEU:HG	1:C:659:THR:HB	1.97	0.47
1:B:641:LEU:HG	1:B:659:THR:HB	1.96	0.46
1:A:345:THR:HG22	1:A:346:SER:N	2.29	0.46
1:A:752:VAL:HB	1:A:781:LEU:HD23	1.96	0.46
1:C:345:THR:HG22	1:C:346:SER:N	2.30	0.46
1:F:367:GLN:HE21	1:F:384:SER:HB3	1.79	0.46
1:F:752:VAL:HB	1:F:781:LEU:HD23	1.96	0.46
1:A:573:SER:HA	1:A:595:ASP:HB3	1.98	0.46
1:C:350:GLN:HE21	1:C:350:GLN:HB2	1.57	0.46
1:D:345:THR:HG22	1:D:346:SER:N	2.30	0.46
1:F:350:GLN:HE21	1:F:350:GLN:HB2	1.56	0.46
1:B:345:THR:HG22	1:B:346:SER:N	2.31	0.46
1:C:535:THR:HA	1:C:536:PRO:HD3	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:267:ASN:HA	1:E:293:THR:OG1	2.16	0.46
1:E:854:THR:HB	1:E:857:GLU:CG	2.46	0.46
1:F:267:ASN:HA	1:F:293:THR:OG1	2.16	0.46
1:A:267:ASN:HA	1:A:293:THR:OG1	2.16	0.46
1:E:342:ASN:ND2	1:E:361:THR:HB	2.29	0.46
1:B:388:THR:OG1	1:B:389:SER:N	2.46	0.46
1:E:345:THR:HG22	1:E:346:SER:N	2.31	0.45
1:D:250:SER:H	1:D:268:ASP:HB3	1.82	0.45
1:B:573:SER:HA	1:B:595:ASP:HB3	1.98	0.45
1:C:854:THR:HB	1:C:857:GLU:CG	2.46	0.45
1:E:641:LEU:HG	1:E:659:THR:HB	1.99	0.45
1:C:267:ASN:HA	1:C:293:THR:OG1	2.16	0.45
1:A:535:THR:HA	1:A:536:PRO:HD3	1.81	0.45
1:B:350:GLN:HE21	1:B:350:GLN:HB2	1.57	0.45
1:B:854:THR:HB	1:B:857:GLU:CG	2.46	0.45
1:D:267:ASN:HA	1:D:293:THR:OG1	2.17	0.45
1:E:250:SER:H	1:E:268:ASP:HB3	1.82	0.45
1:D:573:SER:HA	1:D:595:ASP:HB3	1.99	0.45
1:E:841:GLY:O	1:E:842:THR:C	2.60	0.45
1:B:267:ASN:HA	1:B:293:THR:OG1	2.16	0.45
1:D:378:ALA:O	1:D:400:ALA:HB1	2.17	0.45
1:A:854:THR:HB	1:A:857:GLU:CG	2.46	0.44
1:B:841:GLY:O	1:B:842:THR:C	2.60	0.44
1:D:841:GLY:O	1:D:842:THR:C	2.60	0.44
1:F:378:ALA:O	1:F:400:ALA:HB1	2.17	0.44
1:F:854:THR:HB	1:F:857:GLU:CG	2.47	0.44
1:D:854:THR:HB	1:D:857:GLU:CG	2.46	0.44
1:A:308:PRO:HD2	1:A:311:VAL:HG21	1.99	0.44
1:C:250:SER:H	1:C:268:ASP:HB3	1.82	0.44
1:C:573:SER:HA	1:C:595:ASP:HB3	1.99	0.44
1:D:350:GLN:HE21	1:D:350:GLN:HB2	1.57	0.44
1:D:388:THR:OG1	1:D:389:SER:N	2.46	0.44
1:F:573:SER:HA	1:F:595:ASP:HB3	1.99	0.44
1:A:641:LEU:HG	1:A:659:THR:HB	2.00	0.44
1:E:308:PRO:HD2	1:E:311:VAL:HG21	2.00	0.44
1:E:378:ALA:O	1:E:400:ALA:HB1	2.18	0.44
1:F:841:GLY:O	1:F:842:THR:C	2.60	0.44
1:F:308:PRO:HD2	1:F:311:VAL:HG21	2.00	0.44
1:C:308:PRO:HD2	1:C:311:VAL:HG21	1.98	0.44
1:D:342:ASN:ND2	1:D:361:THR:HB	2.29	0.44
1:E:429:VAL:HG22	1:E:459:VAL:HG13	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:841:GLY:O	1:A:842:THR:C	2.60	0.44
1:C:429:VAL:HG22	1:C:459:VAL:HG13	1.99	0.44
1:D:363:THR:HG23	1:D:383:ALA:HB3	1.99	0.44
1:D:429:VAL:HG22	1:D:459:VAL:HG13	2.00	0.44
1:B:342:ASN:ND2	1:B:361:THR:HB	2.29	0.43
1:B:367:GLN:HE21	1:B:384:SER:HB3	1.82	0.43
1:B:727:GLY:O	1:B:729:THR:HG22	2.19	0.43
1:C:841:GLY:O	1:C:842:THR:C	2.60	0.43
1:F:270:PHE:HB3	1:F:296:LEU:HD23	2.01	0.43
1:A:581:SER:HA	1:A:602:SER:O	2.18	0.43
1:F:841:GLY:H	1:F:844:SER:HG	1.60	0.43
1:A:388:THR:OG1	1:A:389:SER:N	2.46	0.43
1:F:250:SER:H	1:F:268:ASP:HB3	1.84	0.43
1:F:429:VAL:HG22	1:F:459:VAL:HG13	2.00	0.43
1:F:581:SER:HA	1:F:602:SER:O	2.19	0.43
1:B:535:THR:HA	1:B:536:PRO:HD3	1.82	0.43
1:C:680:LEU:HB2	1:C:698:PHE:CD1	2.54	0.43
1:F:936:SER:O	1:F:936:SER:OG	2.30	0.43
1:A:429:VAL:HG22	1:A:459:VAL:HG13	2.00	0.43
1:B:429:VAL:HG22	1:B:459:VAL:HG13	2.00	0.43
1:D:270:PHE:HB3	1:D:296:LEU:HD23	2.00	0.43
1:B:581:SER:HA	1:B:602:SER:O	2.19	0.43
1:D:535:THR:HA	1:D:536:PRO:HD3	1.81	0.43
1:D:727:GLY:O	1:D:729:THR:HG22	2.19	0.43
1:E:367:GLN:HE21	1:E:384:SER:HB3	1.84	0.43
1:E:573:SER:HA	1:E:595:ASP:HB3	1.99	0.43
1:E:727:GLY:O	1:E:729:THR:HG22	2.18	0.43
1:B:250:SER:H	1:B:268:ASP:HB3	1.83	0.43
1:F:680:LEU:HB2	1:F:698:PHE:CD1	2.54	0.42
1:A:727:GLY:O	1:A:729:THR:HG22	2.18	0.42
1:C:727:GLY:O	1:C:729:THR:HG22	2.18	0.42
1:E:581:SER:HA	1:E:602:SER:O	2.18	0.42
1:A:378:ALA:O	1:A:400:ALA:HB1	2.18	0.42
1:A:687:SER:HB2	1:A:689:PHE:CE1	2.54	0.42
1:C:378:ALA:O	1:C:400:ALA:HB1	2.18	0.42
1:D:581:SER:HA	1:D:602:SER:O	2.19	0.42
1:F:591:ASN:HD22	1:F:612:THR:HB	1.84	0.42
1:F:727:GLY:O	1:F:729:THR:HG22	2.19	0.42
1:B:947:GLY:HA3	1:B:1014:THR:O	2.19	0.42
1:C:581:SER:HA	1:C:602:SER:O	2.18	0.42
1:E:947:GLY:HA3	1:E:1014:THR:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:308:PRO:HD2	1:B:311:VAL:HG21	2.01	0.42
1:B:378:ALA:O	1:B:400:ALA:HB1	2.18	0.42
1:B:591:ASN:HD22	1:B:612:THR:HB	1.85	0.42
1:B:1007:LEU:HD23	1:B:1011:VAL:HG11	2.01	0.42
1:A:367:GLN:HE21	1:A:384:SER:HB3	1.85	0.42
1:A:936:SER:O	1:A:936:SER:OG	2.31	0.42
1:B:345:THR:HG21	1:B:348:ALA:O	2.20	0.42
1:F:1007:LEU:HD23	1:F:1011:VAL:HG11	2.00	0.42
1:A:516:VAL:HB	1:A:543:LEU:HD12	2.02	0.42
1:A:591:ASN:HD22	1:A:612:THR:HB	1.85	0.42
1:A:1007:LEU:HD23	1:A:1011:VAL:HG11	2.02	0.42
1:B:359:ASN:ND2	1:B:378:ALA:HB3	2.35	0.42
1:E:359:ASN:ND2	1:E:378:ALA:HB3	2.35	0.42
1:A:342:ASN:ND2	1:A:361:THR:HB	2.29	0.42
1:A:359:ASN:ND2	1:A:378:ALA:HB3	2.34	0.42
1:E:1007:LEU:HD23	1:E:1011:VAL:HG11	2.01	0.42
1:F:881:ILE:HA	1:F:899:THR:O	2.20	0.42
1:B:270:PHE:HB3	1:B:296:LEU:HD23	2.01	0.41
1:B:967:ALA:HA	1:B:995:ALA:HA	2.02	0.41
1:D:367:GLN:HE21	1:D:384:SER:HB3	1.85	0.41
1:E:687:SER:HB2	1:E:689:PHE:CE1	2.56	0.41
1:F:345:THR:HG21	1:F:348:ALA:O	2.20	0.41
1:D:591:ASN:HD22	1:D:612:THR:HB	1.85	0.41
1:C:342:ASN:ND2	1:C:361:THR:HB	2.29	0.41
1:C:958:LEU:HB2	1:C:981:PHE:CE1	2.56	0.41
1:D:680:LEU:HB2	1:D:698:PHE:CD1	2.55	0.41
1:E:680:LEU:HB2	1:E:698:PHE:CD1	2.55	0.41
1:B:881:ILE:HA	1:B:899:THR:O	2.20	0.41
1:C:516:VAL:HB	1:C:543:LEU:HD12	2.02	0.41
1:C:947:GLY:HA3	1:C:1014:THR:O	2.19	0.41
1:D:359:ASN:ND2	1:D:378:ALA:HB3	2.35	0.41
1:E:881:ILE:HA	1:E:899:THR:O	2.20	0.41
1:A:947:GLY:HA3	1:A:1014:THR:O	2.20	0.41
1:B:680:LEU:HB2	1:B:698:PHE:CD1	2.55	0.41
1:C:359:ASN:ND2	1:C:378:ALA:HB3	2.35	0.41
1:D:947:GLY:HA3	1:D:1014:THR:O	2.20	0.41
1:C:681:VAL:HG13	1:C:702:ARG:HG2	2.02	0.41
1:D:1007:LEU:HD23	1:D:1011:VAL:HG11	2.02	0.41
1:A:680:LEU:HB2	1:A:698:PHE:CD1	2.54	0.41
1:F:342:ASN:ND2	1:F:361:THR:HB	2.29	0.41
1:F:567:THR:HG22	1:F:588:THR:HG22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:250:SER:H	1:A:268:ASP:HB3	1.84	0.41
1:A:266:ASN:HD22	1:A:267:ASN:H	1.69	0.41
1:B:355:GLY:O	1:B:358:GLN:HG3	2.21	0.41
1:D:250:SER:O	1:D:268:ASP:CB	2.69	0.41
1:F:947:GLY:HA3	1:F:1014:THR:O	2.20	0.41
1:A:958:LEU:HB2	1:A:981:PHE:CE1	2.55	0.41
1:B:687:SER:HB2	1:B:689:PHE:CE1	2.56	0.41
1:C:881:ILE:HA	1:C:899:THR:O	2.21	0.41
1:D:730:THR:HG23	1:D:751:THR:HB	2.03	0.41
1:E:266:ASN:HD22	1:E:267:ASN:H	1.68	0.41
1:E:591:ASN:HD22	1:E:612:THR:HB	1.86	0.41
1:F:359:ASN:ND2	1:F:378:ALA:HB3	2.35	0.41
1:F:967:ALA:HA	1:F:995:ALA:HA	2.03	0.41
1:C:573:SER:O	1:C:575:ALA:N	2.46	0.41
1:D:567:THR:HG22	1:D:588:THR:HG22	2.03	0.41
1:E:516:VAL:HB	1:E:543:LEU:HD12	2.03	0.41
1:F:322:THR:HG23	1:F:344:ASN:HB2	2.03	0.41
1:F:355:GLY:O	1:F:358:GLN:HG3	2.21	0.41
1:A:573:SER:O	1:A:575:ALA:N	2.46	0.40
1:B:567:THR:HG22	1:B:588:THR:HG22	2.02	0.40
1:C:967:ALA:HA	1:C:995:ALA:HA	2.03	0.40
1:D:681:VAL:HG13	1:D:702:ARG:HG2	2.03	0.40
1:E:681:VAL:HG13	1:E:702:ARG:HG2	2.03	0.40
1:E:958:LEU:HB2	1:E:981:PHE:CE1	2.56	0.40
1:A:967:ALA:HA	1:A:995:ALA:HA	2.02	0.40
1:B:266:ASN:HD22	1:B:267:ASN:H	1.69	0.40
1:D:841:GLY:H	1:D:844:SER:HG	1.64	0.40
1:F:681:VAL:HG13	1:F:702:ARG:HG2	2.03	0.40
1:A:567:THR:HG22	1:A:588:THR:HG22	2.03	0.40
1:B:322:THR:HG23	1:B:344:ASN:HB2	2.03	0.40
1:B:681:VAL:HG13	1:B:702:ARG:HG2	2.03	0.40
1:C:345:THR:HG21	1:C:348:ALA:O	2.21	0.40
1:C:567:THR:HG22	1:C:588:THR:HG22	2.03	0.40
1:F:250:SER:O	1:F:268:ASP:CB	2.69	0.40
1:C:367:GLN:HE21	1:C:384:SER:HB3	1.83	0.40
1:C:730:THR:HG23	1:C:751:THR:HB	2.04	0.40
1:F:516:VAL:HB	1:F:543:LEU:HD12	2.04	0.40
1:C:951:THR:O	1:C:952:LEU:HD23	2.22	0.40
1:D:416:THR:O	1:D:417:GLY:O	2.40	0.40
1:E:967:ALA:HA	1:E:995:ALA:HA	2.03	0.40
1:F:266:ASN:HD22	1:F:267:ASN:H	1.69	0.40

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	776/778 (100%)	709 (91%)	52 (7%)	15 (2%)	6	32
1	B	776/778 (100%)	710 (92%)	52 (7%)	14 (2%)	6	34
1	C	776/778 (100%)	711 (92%)	51 (7%)	14 (2%)	6	34
1	D	776/778 (100%)	710 (92%)	51 (7%)	15 (2%)	6	32
1	E	776/778 (100%)	712 (92%)	49 (6%)	15 (2%)	6	32
1	F	776/778 (100%)	712 (92%)	50 (6%)	14 (2%)	6	34
All	All	4656/4668 (100%)	4264 (92%)	305 (7%)	87 (2%)	8	32

All (87) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	574	THR
1	A	936	SER
1	A	942	ALA
1	A	1019	ALA
1	B	574	THR
1	B	936	SER
1	B	942	ALA
1	B	1019	ALA
1	C	574	THR
1	C	936	SER
1	C	942	ALA
1	C	1019	ALA
1	D	574	THR
1	D	936	SER
1	D	942	ALA
1	D	1019	ALA
1	E	574	THR

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Mol	Chain	Res	Type
1	E	936	SER
1	E	942	ALA
1	E	1019	ALA
1	F	574	THR
1	F	936	SER
1	F	942	ALA
1	F	1019	ALA
1	A	267	ASN
1	A	667	ALA
1	A	946	PHE
1	A	993	ALA
1	B	267	ASN
1	B	417	GLY
1	B	667	ALA
1	B	946	PHE
1	B	993	ALA
1	C	267	ASN
1	C	667	ALA
1	C	946	PHE
1	C	993	ALA
1	D	267	ASN
1	D	417	GLY
1	D	667	ALA
1	D	946	PHE
1	D	993	ALA
1	E	267	ASN
1	E	667	ALA
1	E	946	PHE
1	E	993	ALA
1	F	267	ASN
1	F	667	ALA
1	F	946	PHE
1	F	993	ALA
1	A	417	GLY
1	A	502	SER
1	C	417	GLY
1	E	417	GLY
1	F	417	GLY
1	A	378	ALA
1	B	378	ALA
1	B	502	SER
1	B	842	THR

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Mol	Chain	Res	Type
1	C	378	ALA
1	C	502	SER
1	C	842	THR
1	D	378	ALA
1	D	502	SER
1	D	842	THR
1	E	378	ALA
1	E	502	SER
1	E	842	THR
1	F	378	ALA
1	F	502	SER
1	F	842	THR
1	A	665	LEU
1	A	842	THR
1	B	665	LEU
1	D	665	LEU
1	D	1020	THR
1	A	1020	THR
1	C	665	LEU
1	E	665	LEU
1	E	1020	THR
1	F	1020	THR
1	A	668	GLY
1	B	668	GLY
1	C	668	GLY
1	D	668	GLY
1	E	668	GLY
1	F	668	GLY

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	526/526 (100%)	467 (89%)	59 (11%)	6	19
1	B	526/526 (100%)	466 (89%)	60 (11%)	5	18
1	C	526/526 (100%)	467 (89%)	59 (11%)	6	19

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	D	526/526 (100%)	469 (89%)	57 (11%)	6	21
1	E	526/526 (100%)	468 (89%)	58 (11%)	6	20
1	F	526/526 (100%)	467 (89%)	59 (11%)	6	19
All	All	3156/3156 (100%)	2804 (89%)	352 (11%)	8	19

All (352) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	251	THR
1	A	266	ASN
1	A	275	VAL
1	A	283	VAL
1	A	293	THR
1	A	296	LEU
1	A	299	VAL
1	A	309	THR
1	A	314	SER
1	A	322	THR
1	A	329	LEU
1	A	350	GLN
1	A	358	GLN
1	A	363	THR
1	A	380	VAL
1	A	388	THR
1	A	393	THR
1	A	429	VAL
1	A	442	THR
1	A	454	THR
1	A	474	ARG
1	A	479	VAL
1	A	490	THR
1	A	491	THR
1	A	494	LYS
1	A	507	THR
1	A	537	THR
1	A	551	THR
1	A	577	SER
1	A	588	THR
1	A	590	LEU
1	A	614	THR
1	A	620	THR

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Mol	Chain	Res	Type
1	A	646	THR
1	A	651	MET
1	A	658	VAL
1	A	662	SER
1	A	671	VAL
1	A	690	SER
1	A	729	THR
1	A	779	VAL
1	A	797	THR
1	A	809	SER
1	A	826	THR
1	A	842	THR
1	A	844	SER
1	A	854	THR
1	A	862	ARG
1	A	873	SER
1	A	875	THR
1	A	892	THR
1	A	906	ILE
1	A	912	ILE
1	A	915	SER
1	A	916	THR
1	A	951	THR
1	A	973	THR
1	A	975	VAL
1	A	1012	THR
1	B	251	THR
1	B	266	ASN
1	B	267	ASN
1	B	275	VAL
1	B	283	VAL
1	B	293	THR
1	B	296	LEU
1	B	299	VAL
1	B	309	THR
1	B	314	SER
1	B	322	THR
1	B	329	LEU
1	B	350	GLN
1	B	358	GLN
1	B	363	THR
1	B	380	VAL

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Mol	Chain	Res	Type
1	B	388	THR
1	B	393	THR
1	B	429	VAL
1	B	442	THR
1	B	454	THR
1	B	474	ARG
1	B	479	VAL
1	B	490	THR
1	B	491	THR
1	B	494	LYS
1	B	507	THR
1	B	537	THR
1	B	551	THR
1	B	577	SER
1	B	588	THR
1	B	590	LEU
1	B	614	THR
1	B	620	THR
1	B	646	THR
1	B	651	MET
1	B	658	VAL
1	B	662	SER
1	B	671	VAL
1	B	690	SER
1	B	729	THR
1	B	779	VAL
1	B	797	THR
1	B	809	SER
1	B	826	THR
1	B	842	THR
1	B	844	SER
1	B	854	THR
1	B	862	ARG
1	B	873	SER
1	B	875	THR
1	B	892	THR
1	B	906	ILE
1	B	912	ILE
1	B	915	SER
1	B	916	THR
1	B	951	THR
1	B	973	THR

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Mol	Chain	Res	Type
1	B	975	VAL
1	B	1012	THR
1	C	251	THR
1	C	266	ASN
1	C	267	ASN
1	C	275	VAL
1	C	283	VAL
1	C	293	THR
1	C	296	LEU
1	C	299	VAL
1	C	307	LEU
1	C	309	THR
1	C	314	SER
1	C	322	THR
1	C	329	LEU
1	C	350	GLN
1	C	358	GLN
1	C	363	THR
1	C	380	VAL
1	C	388	THR
1	C	393	THR
1	C	429	VAL
1	C	442	THR
1	C	454	THR
1	C	474	ARG
1	C	479	VAL
1	C	490	THR
1	C	491	THR
1	C	494	LYS
1	C	537	THR
1	C	551	THR
1	C	577	SER
1	C	588	THR
1	C	590	LEU
1	C	614	THR
1	C	620	THR
1	C	646	THR
1	C	651	MET
1	C	658	VAL
1	C	662	SER
1	C	671	VAL
1	C	690	SER

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Mol	Chain	Res	Type
1	C	729	THR
1	C	779	VAL
1	C	797	THR
1	C	809	SER
1	C	826	THR
1	C	842	THR
1	C	844	SER
1	C	862	ARG
1	C	873	SER
1	C	875	THR
1	C	892	THR
1	C	906	ILE
1	C	912	ILE
1	C	915	SER
1	C	916	THR
1	C	951	THR
1	C	973	THR
1	C	975	VAL
1	C	1012	THR
1	D	251	THR
1	D	266	ASN
1	D	275	VAL
1	D	283	VAL
1	D	293	THR
1	D	296	LEU
1	D	299	VAL
1	D	309	THR
1	D	314	SER
1	D	322	THR
1	D	329	LEU
1	D	350	GLN
1	D	358	GLN
1	D	363	THR
1	D	380	VAL
1	D	388	THR
1	D	393	THR
1	D	429	VAL
1	D	442	THR
1	D	454	THR
1	D	474	ARG
1	D	479	VAL
1	D	490	THR

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Mol	Chain	Res	Type
1	D	491	THR
1	D	494	LYS
1	D	507	THR
1	D	537	THR
1	D	551	THR
1	D	577	SER
1	D	588	THR
1	D	590	LEU
1	D	614	THR
1	D	620	THR
1	D	646	THR
1	D	651	MET
1	D	658	VAL
1	D	662	SER
1	D	671	VAL
1	D	690	SER
1	D	729	THR
1	D	779	VAL
1	D	797	THR
1	D	809	SER
1	D	826	THR
1	D	842	THR
1	D	844	SER
1	D	862	ARG
1	D	873	SER
1	D	875	THR
1	D	892	THR
1	D	906	ILE
1	D	915	SER
1	D	916	THR
1	D	951	THR
1	D	973	THR
1	D	975	VAL
1	D	1012	THR
1	E	251	THR
1	E	266	ASN
1	E	275	VAL
1	E	283	VAL
1	E	293	THR
1	E	296	LEU
1	E	299	VAL
1	E	309	THR

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Mol	Chain	Res	Type
1	E	314	SER
1	E	322	THR
1	E	329	LEU
1	E	350	GLN
1	E	358	GLN
1	E	363	THR
1	E	380	VAL
1	E	388	THR
1	E	393	THR
1	E	429	VAL
1	E	442	THR
1	E	454	THR
1	E	474	ARG
1	E	479	VAL
1	E	490	THR
1	E	491	THR
1	E	494	LYS
1	E	537	THR
1	E	551	THR
1	E	577	SER
1	E	588	THR
1	E	590	LEU
1	E	614	THR
1	E	620	THR
1	E	646	THR
1	E	651	MET
1	E	658	VAL
1	E	662	SER
1	E	671	VAL
1	E	690	SER
1	E	729	THR
1	E	779	VAL
1	E	797	THR
1	E	809	SER
1	E	826	THR
1	E	842	THR
1	E	844	SER
1	E	854	THR
1	E	862	ARG
1	E	873	SER
1	E	875	THR
1	E	892	THR

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Mol	Chain	Res	Type
1	E	906	ILE
1	E	912	ILE
1	E	915	SER
1	E	916	THR
1	E	951	THR
1	E	973	THR
1	E	975	VAL
1	E	1012	THR
1	F	251	THR
1	F	266	ASN
1	F	275	VAL
1	F	283	VAL
1	F	293	THR
1	F	296	LEU
1	F	299	VAL
1	F	309	THR
1	F	314	SER
1	F	322	THR
1	F	329	LEU
1	F	350	GLN
1	F	358	GLN
1	F	363	THR
1	F	380	VAL
1	F	388	THR
1	F	393	THR
1	F	429	VAL
1	F	442	THR
1	F	454	THR
1	F	474	ARG
1	F	479	VAL
1	F	490	THR
1	F	491	THR
1	F	494	LYS
1	F	537	THR
1	F	551	THR
1	F	577	SER
1	F	588	THR
1	F	590	LEU
1	F	614	THR
1	F	620	THR
1	F	646	THR
1	F	651	MET

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Mol	Chain	Res	Type
1	F	658	VAL
1	F	662	SER
1	F	671	VAL
1	F	690	SER
1	F	729	THR
1	F	779	VAL
1	F	797	THR
1	F	809	SER
1	F	826	THR
1	F	842	THR
1	F	844	SER
1	F	854	THR
1	F	858	VAL
1	F	862	ARG
1	F	873	SER
1	F	875	THR
1	F	892	THR
1	F	906	ILE
1	F	912	ILE
1	F	915	SER
1	F	916	THR
1	F	951	THR
1	F	973	THR
1	F	975	VAL
1	F	1012	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (75) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	266	ASN
1	A	267	ASN
1	A	342	ASN
1	A	350	GLN
1	A	358	GLN
1	A	359	ASN
1	A	367	GLN
1	A	371	ASN
1	A	476	ASN
1	A	672	ASN
1	A	709	GLN
1	A	938	ASN
1	B	266	ASN

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Mol	Chain	Res	Type
1	B	267	ASN
1	B	342	ASN
1	B	350	GLN
1	B	358	GLN
1	B	359	ASN
1	B	367	GLN
1	B	371	ASN
1	B	476	ASN
1	B	672	ASN
1	B	709	GLN
1	B	938	ASN
1	C	266	ASN
1	C	267	ASN
1	C	342	ASN
1	C	344	ASN
1	C	350	GLN
1	C	358	GLN
1	C	359	ASN
1	C	367	GLN
1	C	371	ASN
1	C	476	ASN
1	C	672	ASN
1	C	709	GLN
1	D	266	ASN
1	D	267	ASN
1	D	342	ASN
1	D	344	ASN
1	D	350	GLN
1	D	358	GLN
1	D	359	ASN
1	D	367	GLN
1	D	371	ASN
1	D	476	ASN
1	D	672	ASN
1	D	709	GLN
1	D	938	ASN
1	E	266	ASN
1	E	267	ASN
1	E	342	ASN
1	E	350	GLN
1	E	358	GLN
1	E	359	ASN

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Mol	Chain	Res	Type
1	E	367	GLN
1	E	371	ASN
1	E	476	ASN
1	E	591	ASN
1	E	672	ASN
1	E	709	GLN
1	E	938	ASN
1	F	266	ASN
1	F	267	ASN
1	F	342	ASN
1	F	344	ASN
1	F	350	GLN
1	F	358	GLN
1	F	359	ASN
1	F	367	GLN
1	F	371	ASN
1	F	476	ASN
1	F	672	ASN
1	F	709	GLN
1	F	938	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 114 ligands modelled in this entry, 114 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

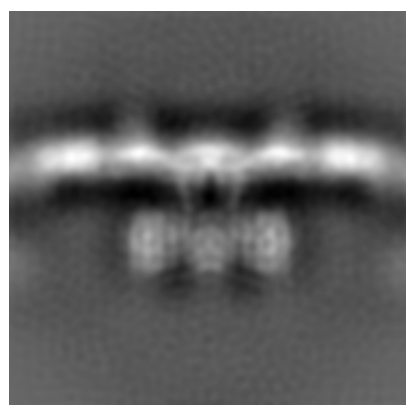
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-3604. These allow visual inspection of the internal detail of the map and identification of artifacts.

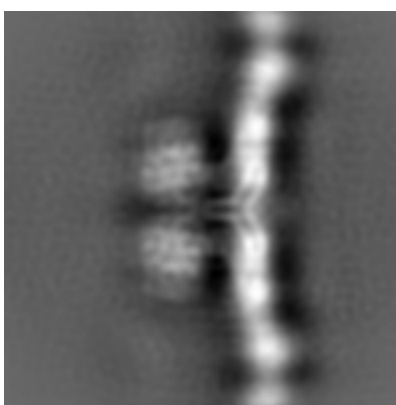
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

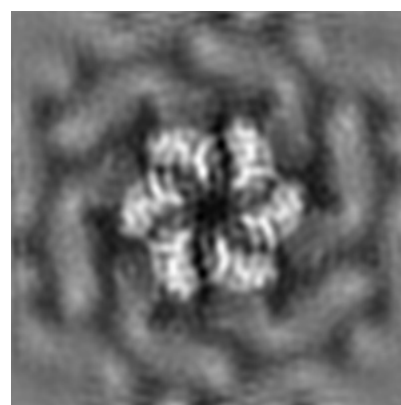
6.1.1 Primary map



X



Y

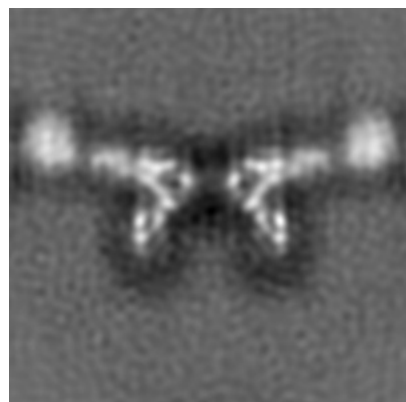


Z

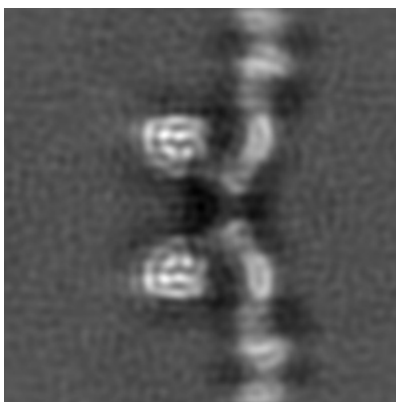
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

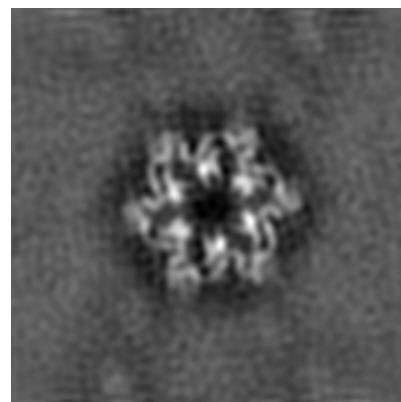
6.2.1 Primary map



X Index: 100



Y Index: 100

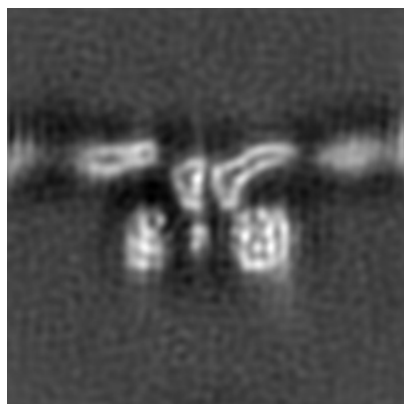


Z Index: 100

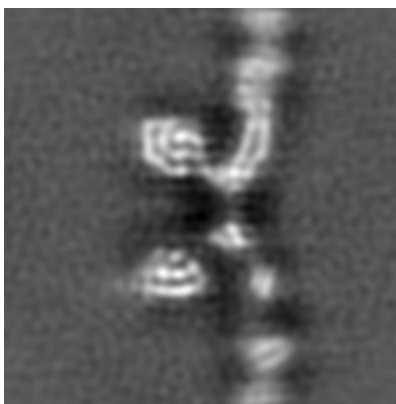
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

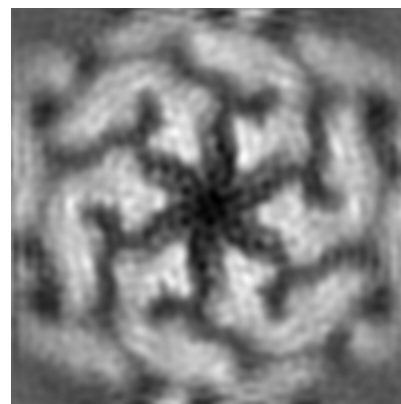
6.3.1 Primary map



X Index: 118



Y Index: 96

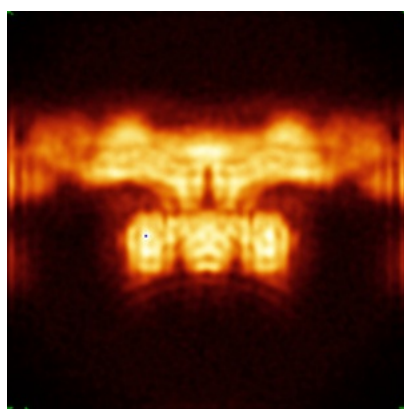


Z Index: 128

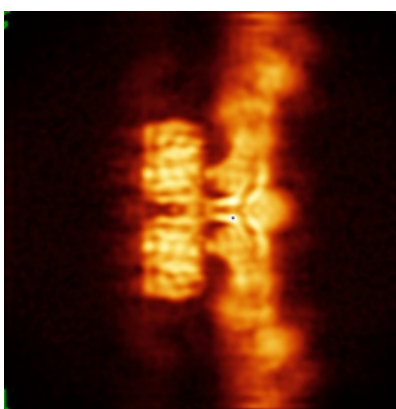
The images above show the largest variance slices of the map in three orthogonal directions.

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

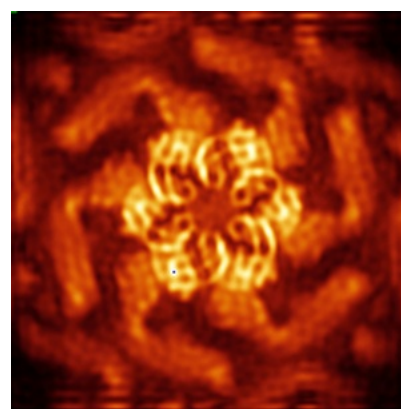
6.4.1 Primary map



X



Y

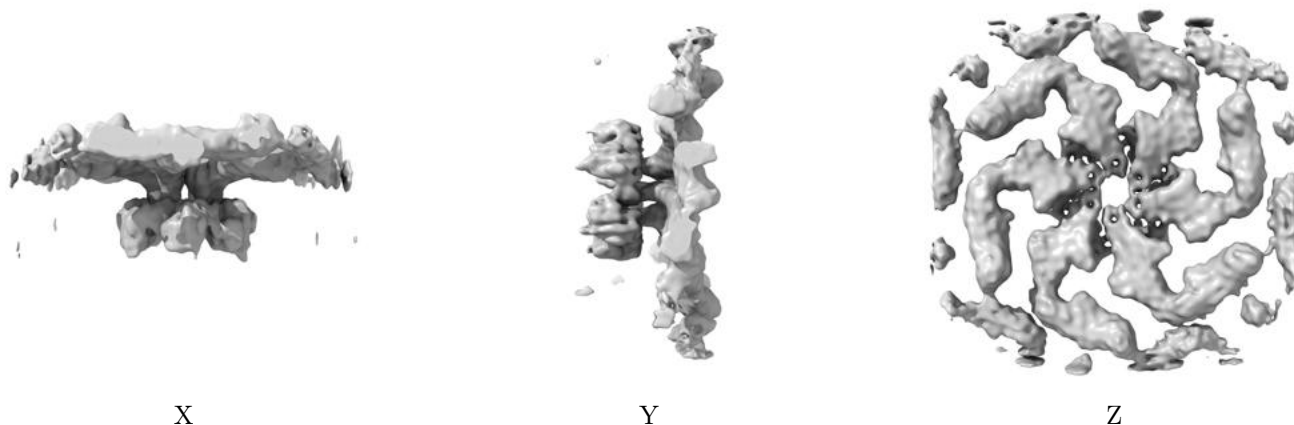


Z

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

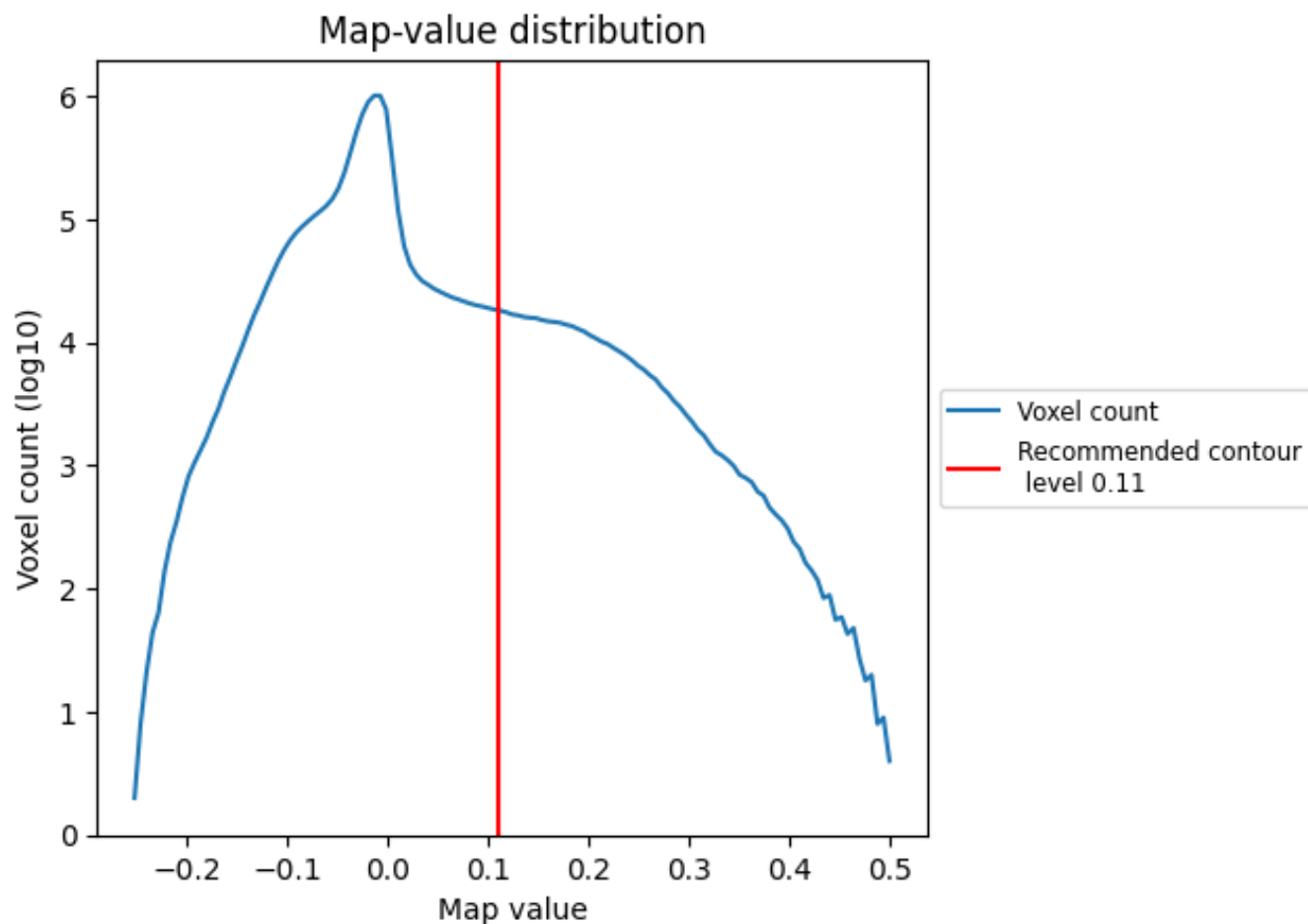
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

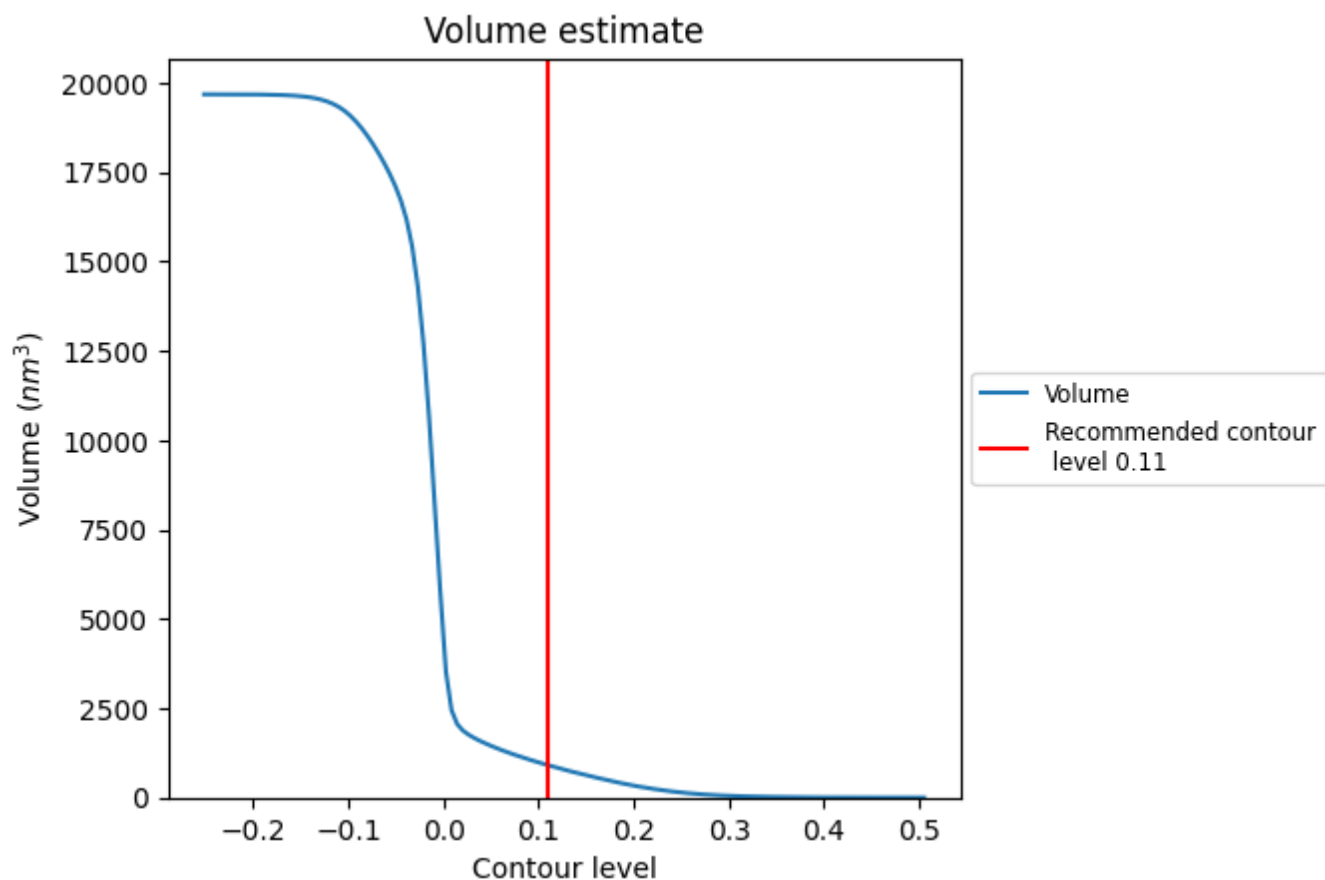
This section contains the results of statistical analysis of the map.

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.

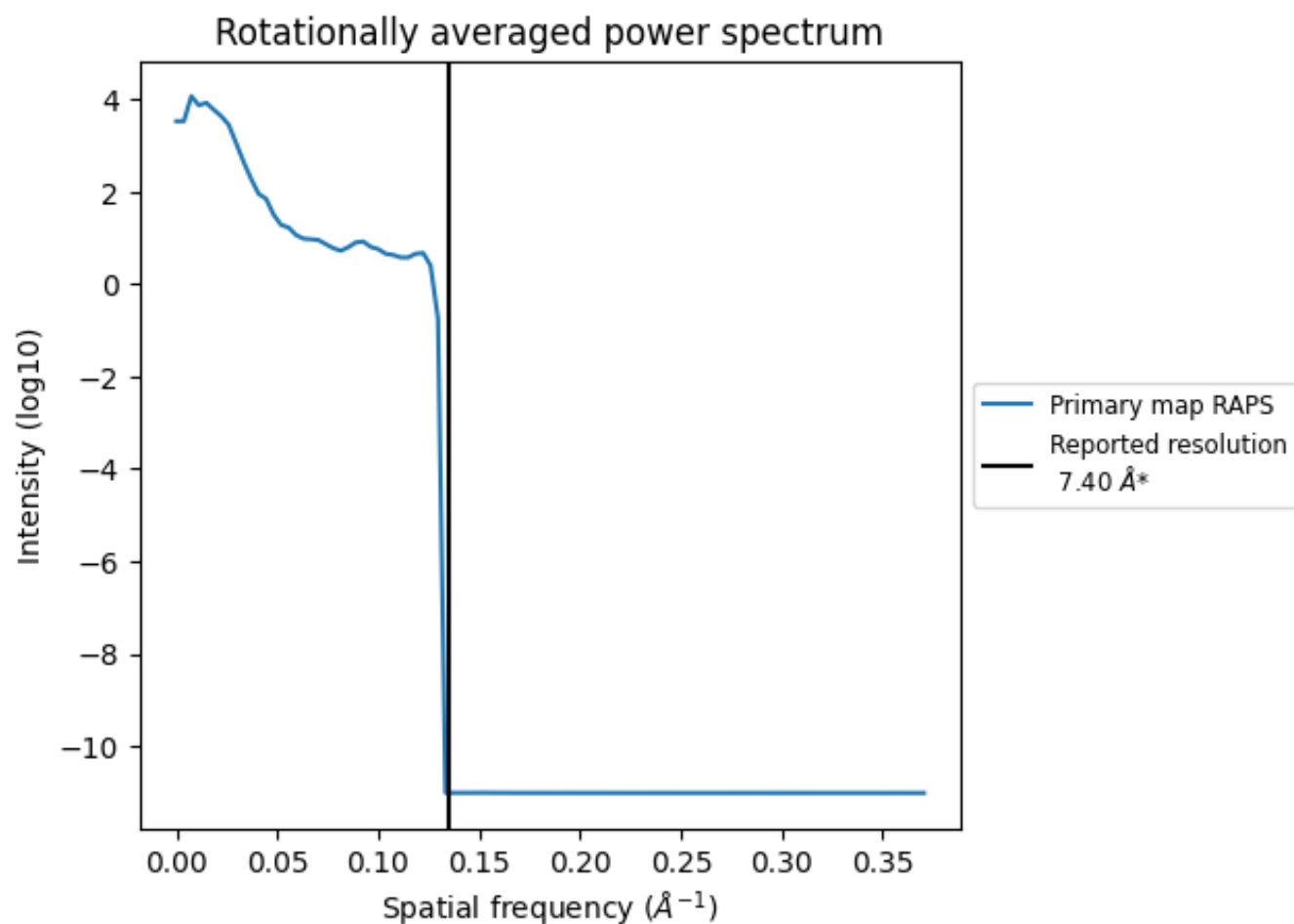
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 905 nm³; this corresponds to an approximate mass of 817 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 0.135 $\text{\AA}^{-1}$

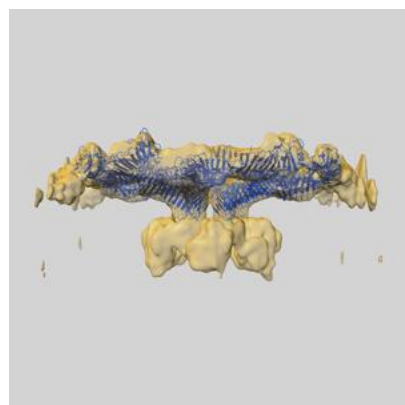
8 Fourier-Shell correlation ⓘ

This section was not generated. No FSC curve or half-maps provided.

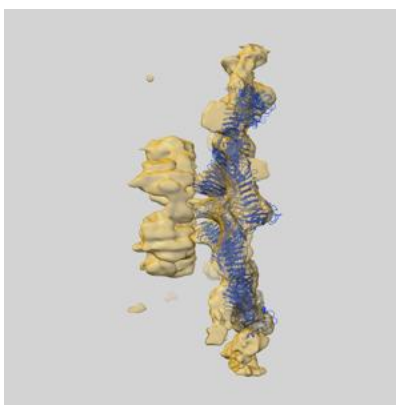
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-3604 and PDB model 5N97. Per-residue inclusion information can be found in section [3](#) on page [5](#).

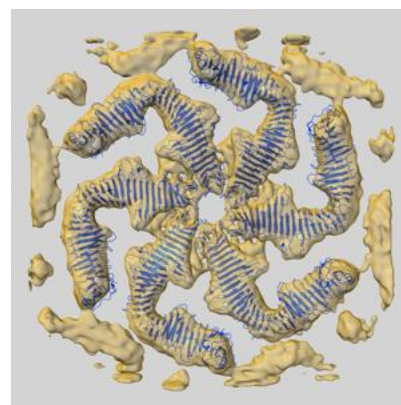
9.1 Map-model overlay [i](#)



X



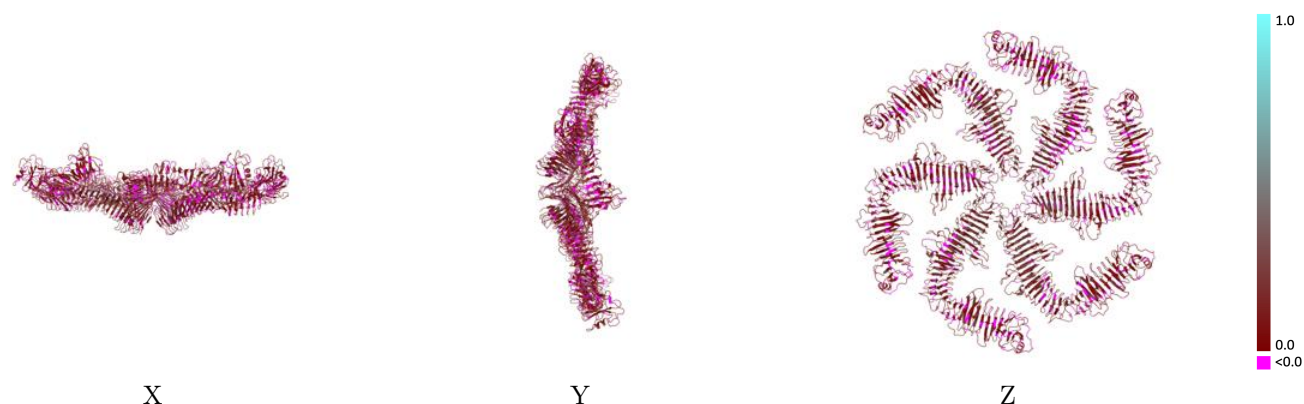
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.11 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](#)

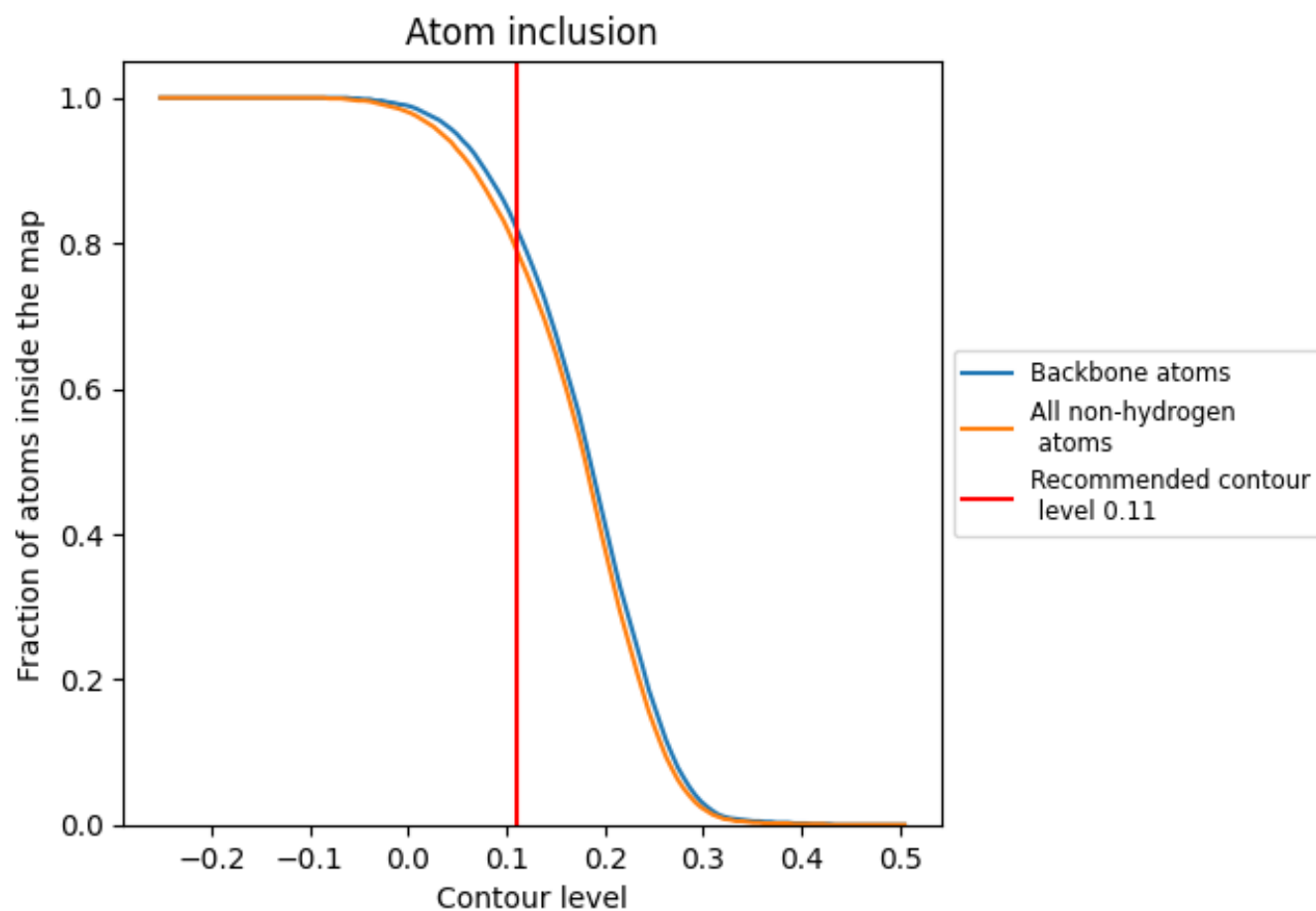


The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

This section was not generated.

9.4 Atom inclusion [i](#)



At the recommended contour level, 82% of all backbone atoms, 79% 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 (0.11) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.7920	0.1010
A	0.8270	0.1050
B	0.8080	0.1180
C	0.8150	0.0980
D	0.7710	0.0960
E	0.7410	0.0830
F	0.7920	0.1030

1.0

0.0

<0.0