wwPDB EM Validation Summary Report (i)

Oct 7, 2026 – 03:02 PM JST

PDB ID	:	26EL / pdb_000026el
EMDB ID	:	EMD-80589
Title	:	Structure of mouse PADI6 oligomer
Authors	:	Li, J.; Deng, D.
Deposited on	:	2026-04-28
Resolution	:	4.00 Å(reported)

This is a wwPDB EM Validation Summary Report for a publicly released PDB entry.

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
with specific help available everywhere you see the (i) 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 (i)) were used in the production of this report:

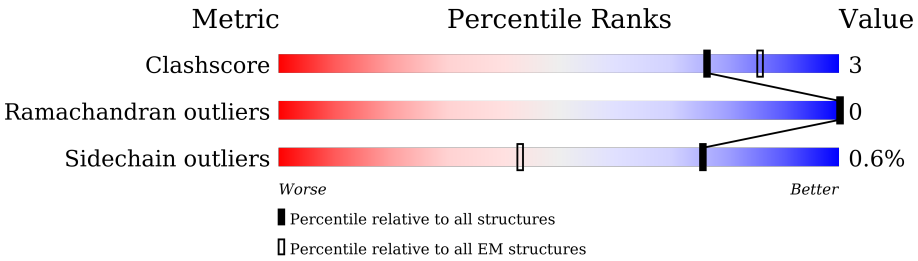
EMDB validation analysis	:	0.0.1.dev133
MolProbity	:	4-5-2 with Phenix2.2
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.51

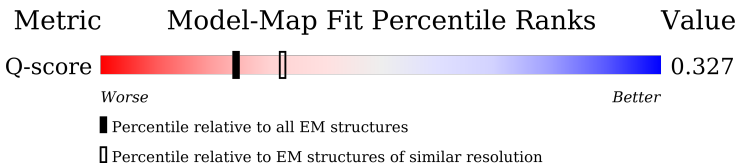
1 Overall quality at a glance (i)

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

The reported resolution of this entry is 4.00 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	7587 (3.50 - 4.50)

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 <=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	682	90% 9% •
1	B	682	90% 9% •
1	C	682	91% 8% •
1	D	682	90% 9% •

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
1	E	682	75% 8% 17%
1	F	682	40% 58%
1	G	682	90% 8%
1	H	682	90% 9%
1	I	682	90% 9%
1	J	682	90% 9%
1	K	682	89% 9%
1	L	682	90% 9%
1	M	682	54% 43%
1	N	682	34% 63%
1	O	682	89% 10%
1	P	682	90% 9%
1	Q	682	90% 8%
1	R	682	89% 10%
1	S	682	16% 83% 8% 10%
1	T	682	6% 89% 9%

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 96650 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 Inactive protein-arginine deiminase type-6.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	675	5329	3409	879	1002	39	0	0
1	B	675	5329	3409	879	1002	39	0	0
1	C	675	5329	3409	879	1002	39	0	0
1	D	675	5329	3409	879	1002	39	0	0
1	E	568	4526	2894	745	857	30	0	0
1	F	284	2214	1412	368	418	16	0	0
1	G	675	5329	3409	879	1002	39	0	0
1	H	675	5329	3409	879	1002	39	0	0
1	I	675	5329	3409	879	1002	39	0	0
1	J	675	5329	3409	879	1002	39	0	0
1	K	675	5329	3409	879	1002	39	0	0
1	L	675	5329	3409	879	1002	39	0	0
1	M	391	3115	1997	511	584	23	0	0
1	N	253	1981	1270	327	369	15	0	0
1	O	675	5329	3409	879	1002	39	0	0
1	P	675	5329	3409	879	1002	39	0	0
1	Q	675	5329	3409	879	1002	39	0	0

Continued on next page...

Continued from previous page...

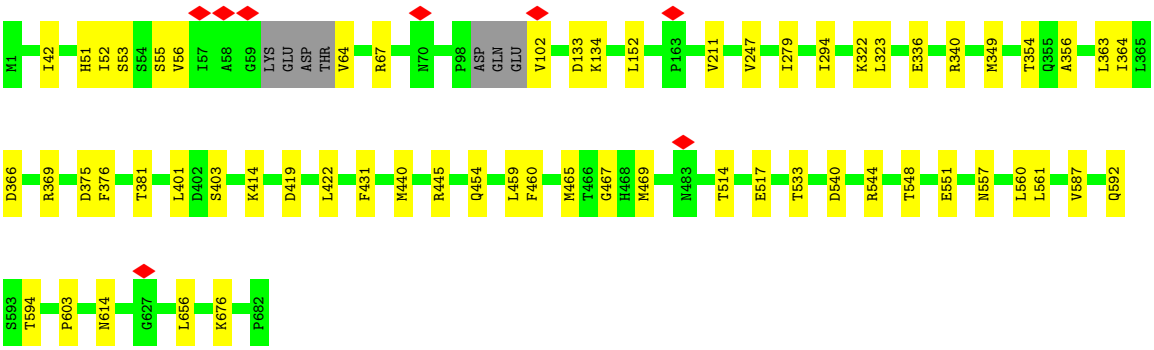
Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	R	675	5329	3409	879	1002	39	0	0
			Total	C	N	O	S		
1	S	617	4879	3124	805	914	36	0	0
			Total	C	N	O	S		
1	T	675	5329	3409	879	1002	39	0	0

3 Residue-property plots (i)

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.

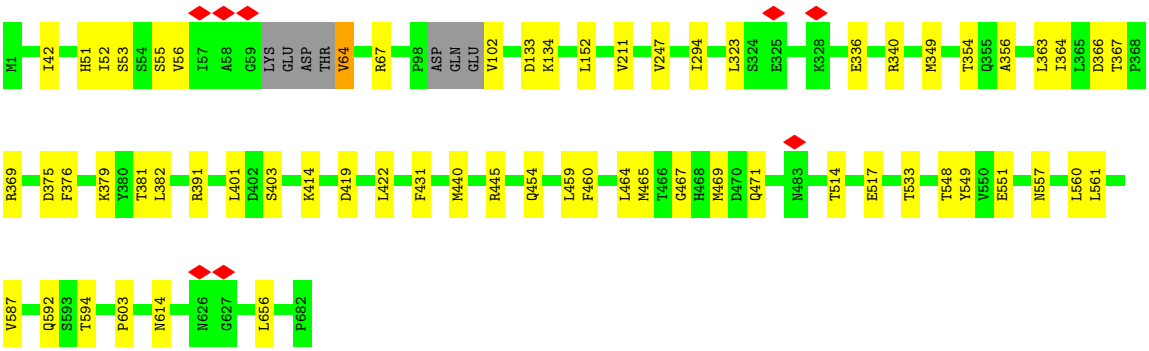
• Molecule 1: Inactive protein-arginine deiminase type-6

Chain A:



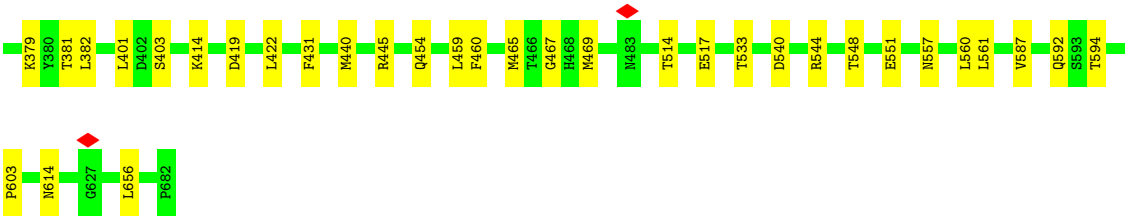
• Molecule 1: Inactive protein-arginine deiminase type-6

Chain B:



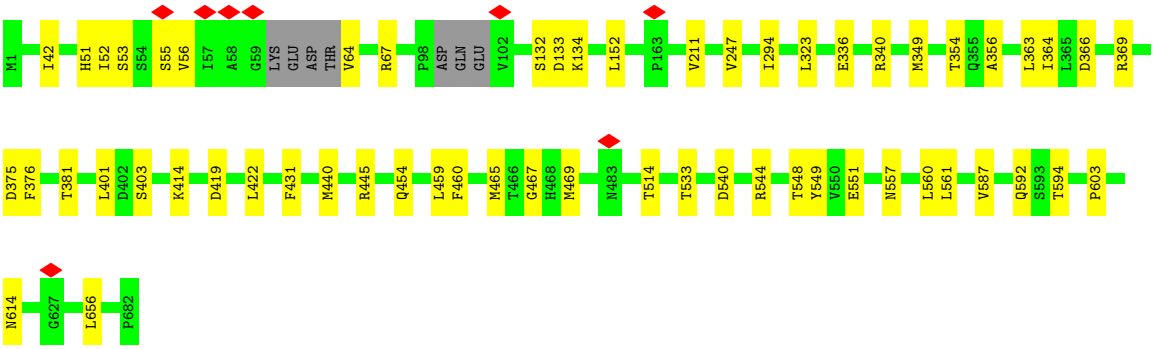
• Molecule 1: Inactive protein-arginine deiminase type-6

Chain C:



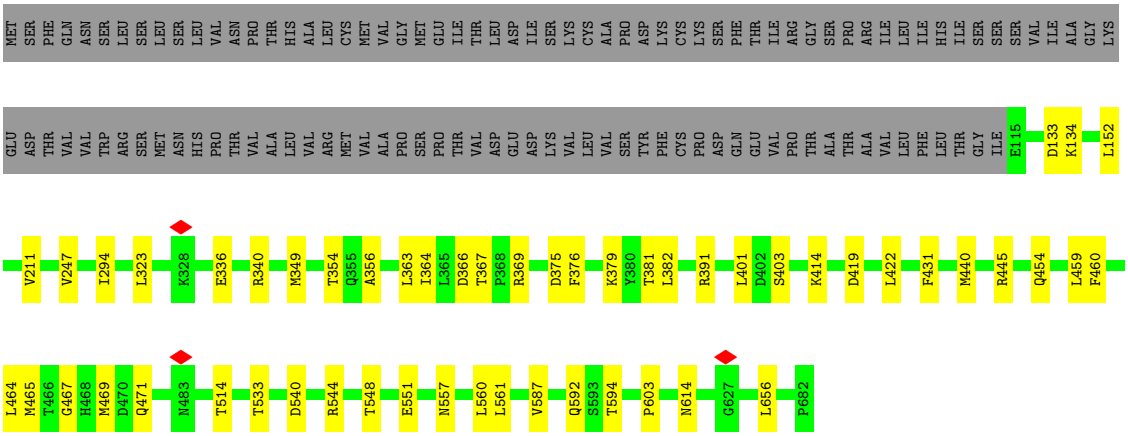
• Molecule 1: Inactive protein-arginine deiminase type-6

Chain D:



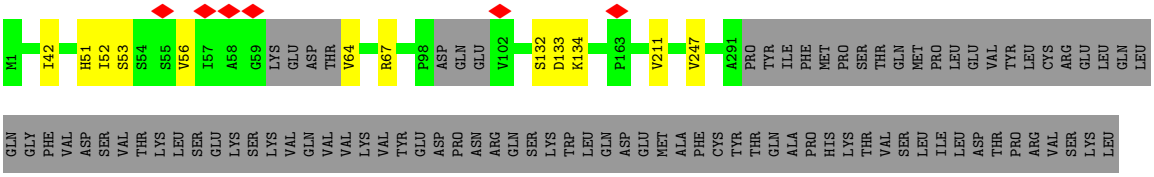
• Molecule 1: Inactive protein-arginine deiminase type-6

Chain E:



• Molecule 1: Inactive protein-arginine deiminase type-6

Chain F:



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

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

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

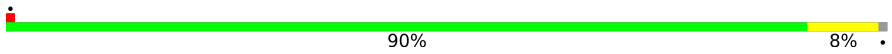
ILE SER LEU ASN ARG THR LEU LEU LYS THR GLU LEU GLY LEU GLU ASP LYS ASP ILE ILE LEU ILE PRO GLN LEU PHE CYS LEU GLU GLN LEU THR ASN VAL PRO SER ASN GLN GLN SER THR LYS LEU PHE ALA ARG PRO TYR PHE PRO ASP MET LEU GLN ILE ILE ILE VAL LEU LEU GLY LYS

ASN LEU GLY ILE PRO LYS PRO PHE GLY PRO LYS ILE ASN GLY THR CYS CYS LEU GLU GLU LYS VAL CYS GLY LEU LEU GLU PRO LEU GLY LEU LYS CYS THR PHE ILE ASP ASP PHE ASP CYS TYR LEU ALA ASN ILE GLY ASP VAL CYS ALA SER ALA ILE ILE ASN ARG VAL PRO PHE

ALA PHE LYS TRP TRP LYS MET THR PRO

- Molecule 1: Inactive protein-arginine deiminase type-6

Chain G:



M1 I42 H51 I52 V56 I57 A58 G59 LYS GLU ASP THR V64 N70 P98 ASP GLN GLN GLU V102 D133 K134 L152 V211 V247 I279 I294 L323 K328 E336 R340 M349 T354 Q355 A356 L363 I364 L365 D366 T367 P368 R369

D375 F376 K379 Y380 T381 L382 R391 L401 D402 S403 K414 D419 L422 F431 M440 R445 Q454 L459 F460 M465 T466 G467 H468 M469 N483 T514 E517 T533 D540 R544 T548 E551 L560 L561 V587 Q592 S593

T594 P603 N614 G627 L656 P682

- Molecule 1: Inactive protein-arginine deiminase type-6

Chain H:

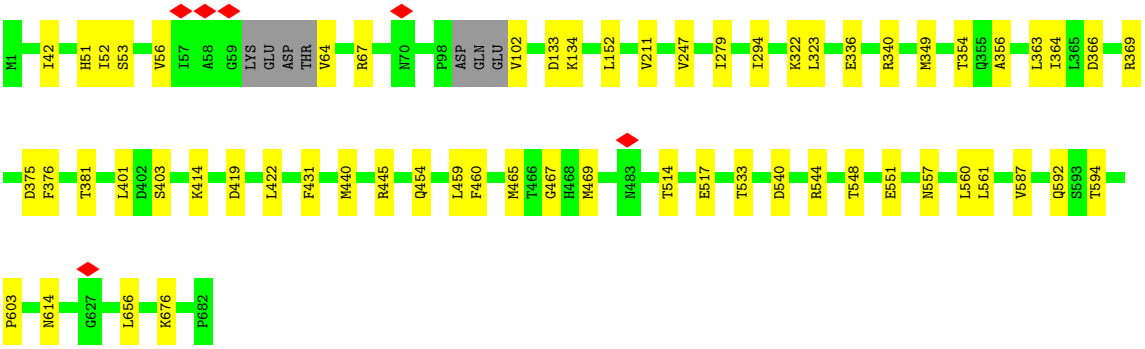
M1 I42 H51 I52 S53 S54 S55 V56 I57 A58 G59 LYS GLU ASP THR V64 R67 P98 ASP GLN GLU V102 S132 D133 K134 L152 P163 V211 V247 I294 L323 E336 R340 M349 T354 Q355 A356 L363 I364 L365 D366 T367 P368 R369

D375 F376 K379 Y380 T381 L382 R391 L401 D402 S403 K414 D419 L422 F431 M440 R445 Q454 L459 F460 L464 M465 T466 G467 H468 M469 D470 Q471 N483 T514 T533 D540 R544 T548 Y549 V550 E551 N557 L560 L561

V587 Q592 S593 T594 P603 N614 G627 L656 K676 P682

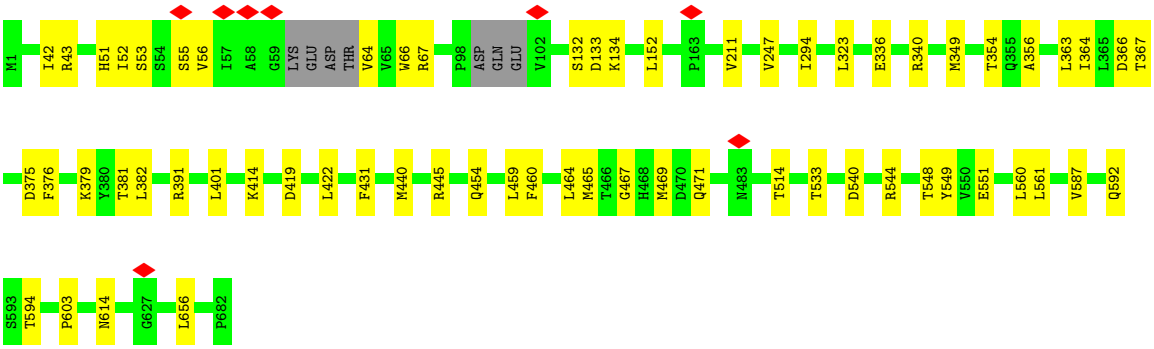
- Molecule 1: Inactive protein-arginine deiminase type-6

Chain I:



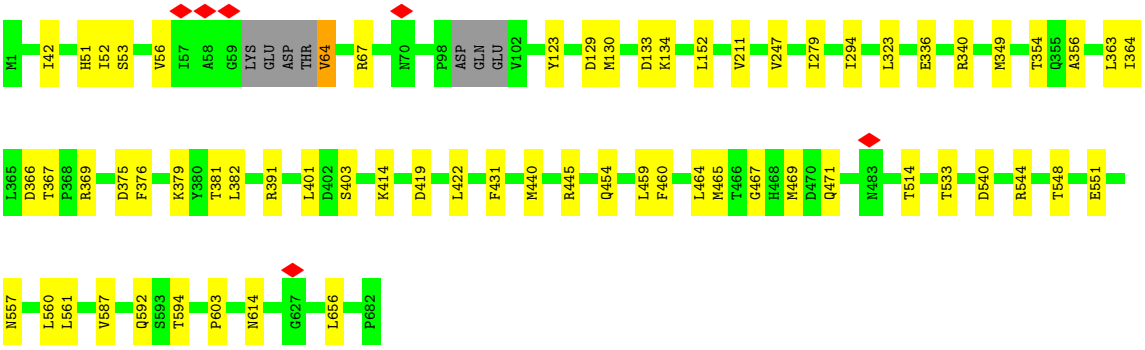
• Molecule 1: Inactive protein-arginine deiminase type-6

Chain J:



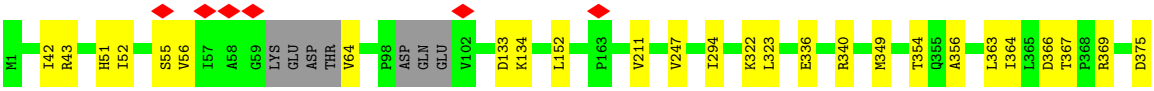
• Molecule 1: Inactive protein-arginine deiminase type-6

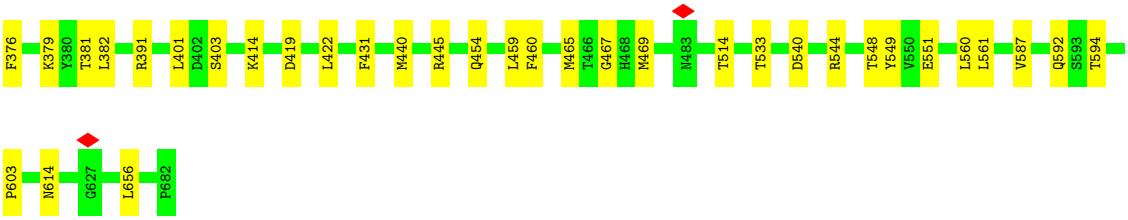
Chain K:



• Molecule 1: Inactive protein-arginine deiminase type-6

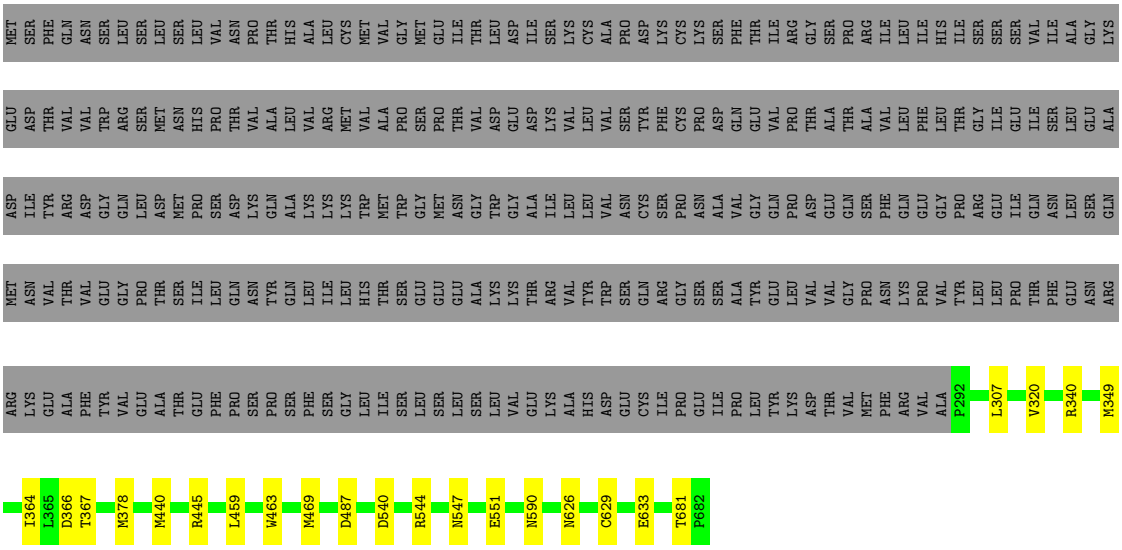
Chain L:





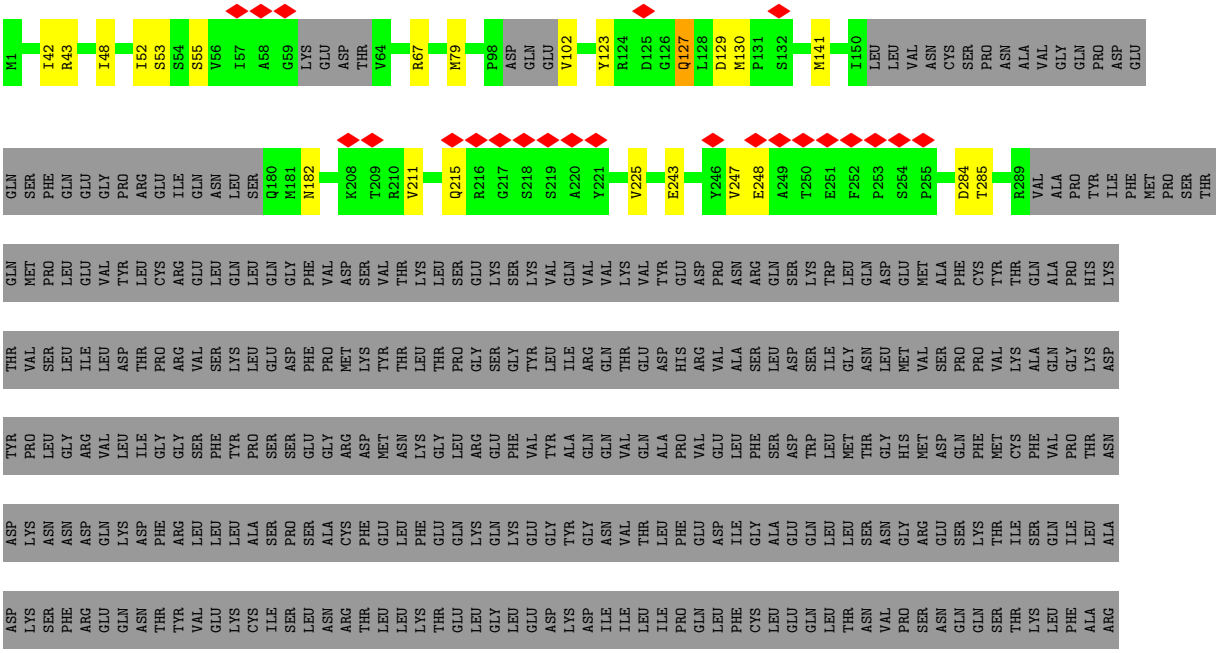
• Molecule 1: Inactive protein-arginine deiminase type-6

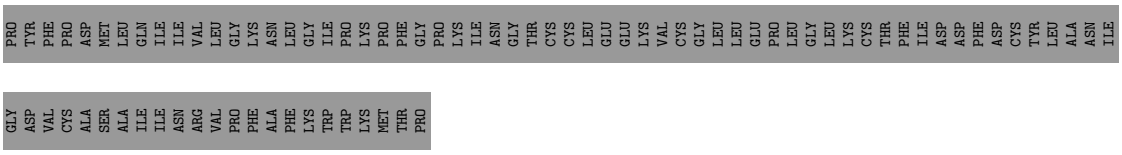
Chain M:



• Molecule 1: Inactive protein-arginine deiminase type-6

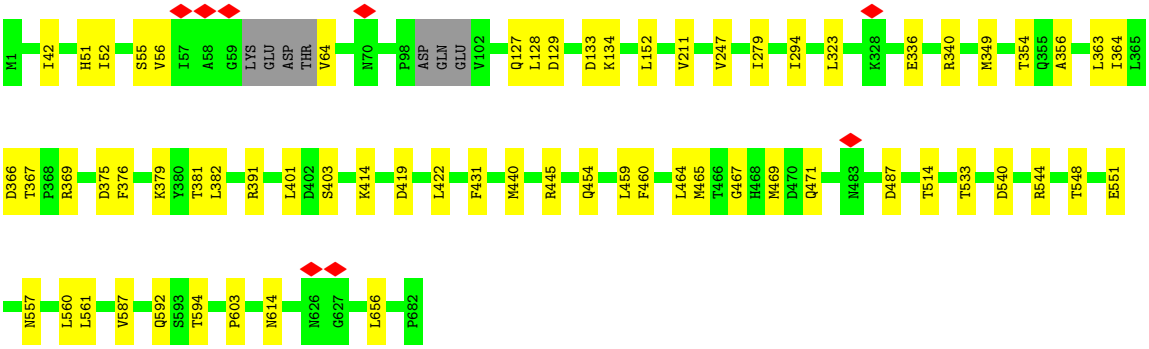
Chain N:





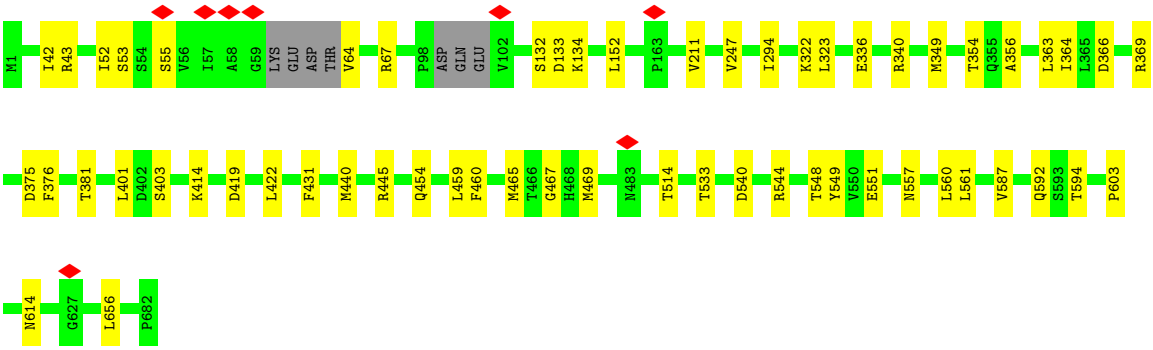
• Molecule 1: Inactive protein-arginine deiminase type-6

Chain O:



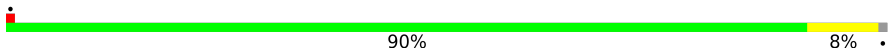
• Molecule 1: Inactive protein-arginine deiminase type-6

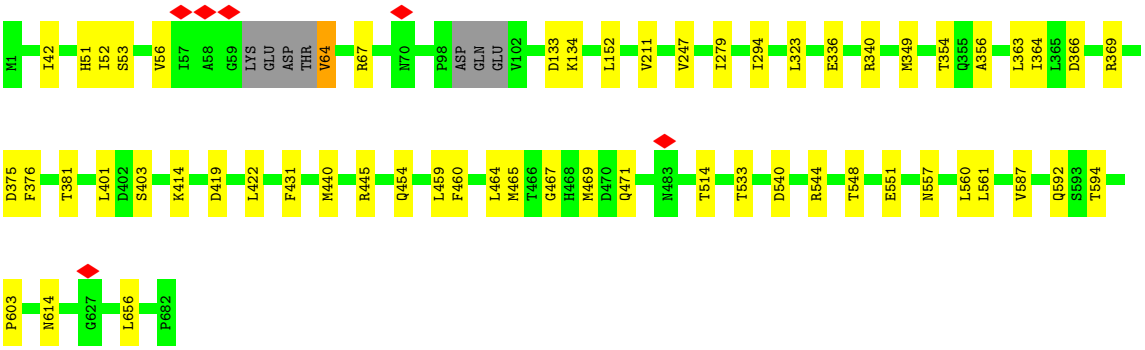
Chain P:



• Molecule 1: Inactive protein-arginine deiminase type-6

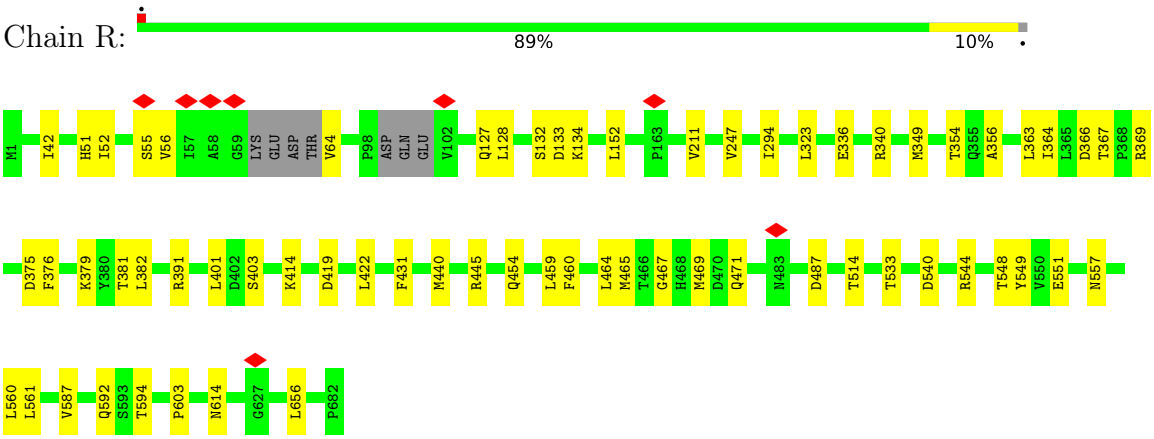
Chain Q:





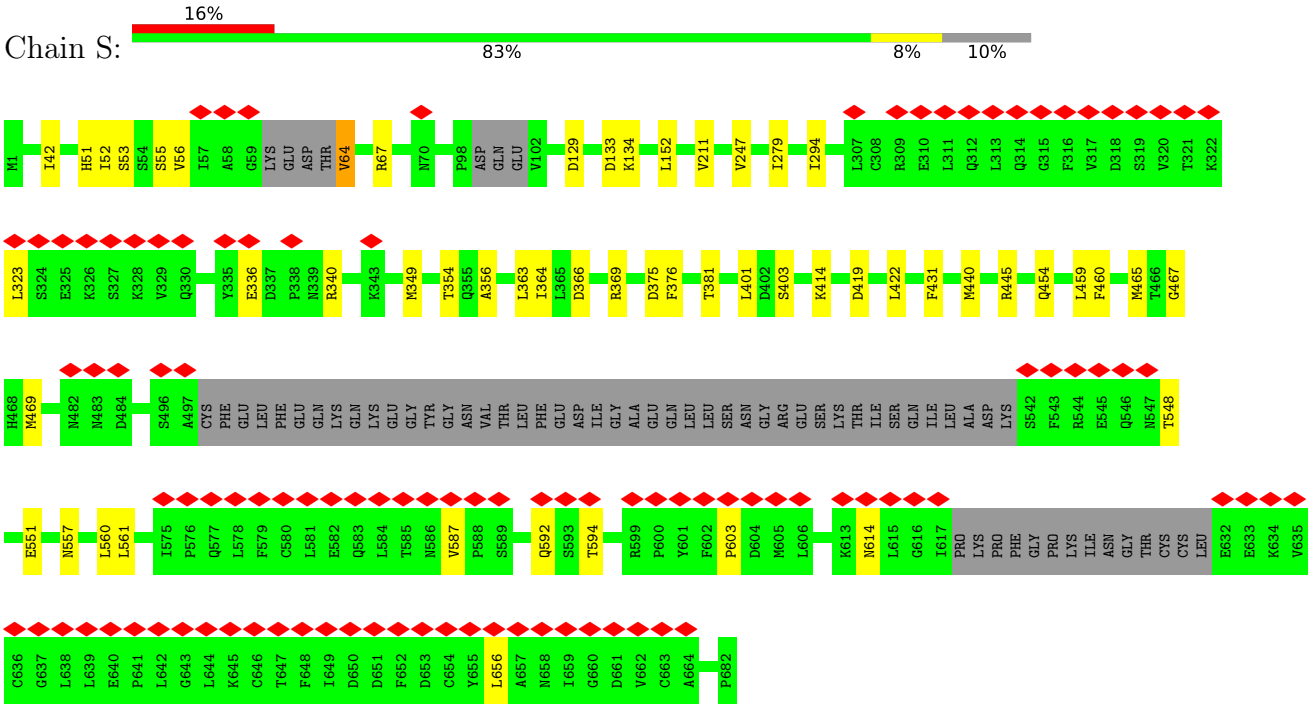
• Molecule 1: Inactive protein-arginine deiminase type-6

Chain R:



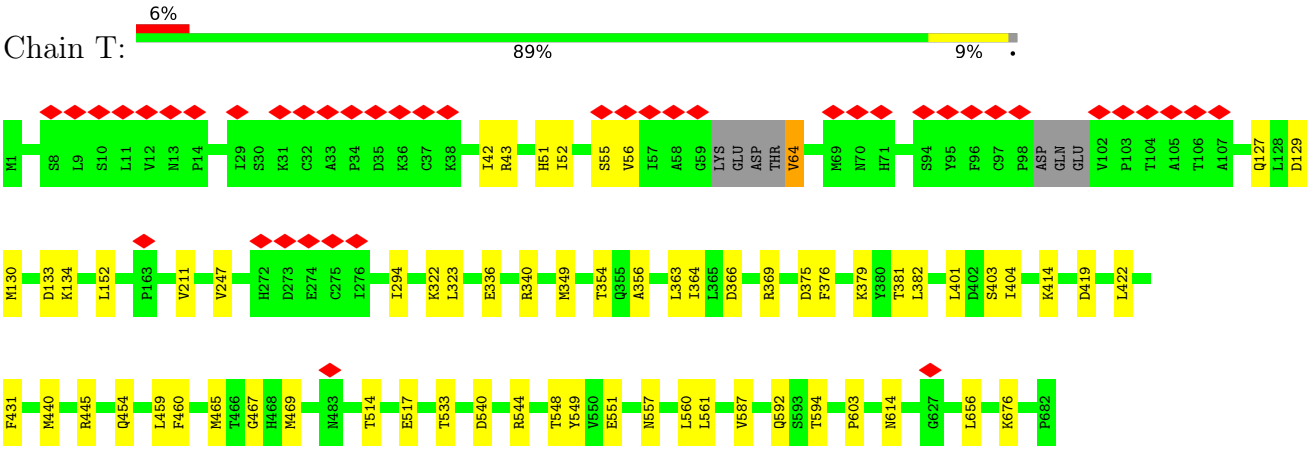
• Molecule 1: Inactive protein-arginine deiminase type-6

Chain S:



• Molecule 1: Inactive protein-arginine deiminase type-6

Chain T:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	718317	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	46.1	Depositor
Minimum defocus (nm)	1100	Depositor
Maximum defocus (nm)	1800	Depositor
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.403	Depositor
Minimum map value	-0.080	Depositor
Average map value	0.004	Depositor
Map value standard deviation	0.019	Depositor
Recommended contour level	0.05	Depositor
Map size (Å)	440.0, 440.0, 440.0	wwPDB
Map dimensions	400, 400, 400	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.1, 1.1, 1.1	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| >5$	RMSZ	$\#\|Z\| >5$
1	A	0.10	0/5450	0.24	0/7390
1	B	0.10	0/5450	0.24	0/7390
1	C	0.10	0/5450	0.24	0/7390
1	D	0.10	0/5450	0.24	0/7390
1	E	0.10	0/4631	0.24	0/6274
1	F	0.10	0/2264	0.25	0/3077
1	G	0.10	0/5450	0.24	0/7390
1	H	0.10	0/5450	0.24	0/7390
1	I	0.10	0/5450	0.24	0/7390
1	J	0.10	0/5450	0.24	0/7390
1	K	0.10	0/5450	0.24	0/7390
1	L	0.10	0/5450	0.24	0/7390
1	M	0.13	0/3185	0.27	0/4309
1	N	0.14	0/2026	0.31	0/2750
1	O	0.10	0/5450	0.24	0/7390
1	P	0.10	0/5450	0.24	0/7390
1	Q	0.10	0/5450	0.24	0/7390
1	R	0.10	0/5450	0.24	0/7390
1	S	0.10	0/4990	0.24	0/6769
1	T	0.10	0/5450	0.24	0/7390
All	All	0.10	0/98846	0.24	0/134029

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (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	5329	0	5339	34	0
1	B	5329	0	5339	36	0
1	C	5329	0	5339	32	0
1	D	5329	0	5339	32	0
1	E	4526	0	4500	28	0
1	F	2214	0	2219	7	0
1	G	5329	0	5339	32	0
1	H	5329	0	5339	36	0
1	I	5329	0	5339	33	0
1	J	5329	0	5339	37	0
1	K	5329	0	5339	39	0
1	L	5329	0	5339	33	0
1	M	3115	0	3120	14	0
1	N	1981	0	1996	20	0
1	O	5329	0	5339	36	0
1	P	5329	0	5339	33	0
1	Q	5329	0	5339	32	0
1	R	5329	0	5339	37	0
1	S	4879	0	4888	31	0
1	T	5329	0	5339	43	0
All	All	96650	0	96808	587	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.

The worst 5 of 587 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:A:517:GLU:OE2	1:C:322:LYS:HE3	1.85	0.77
1:N:48:ILE:HG12	1:N:79:MET:SD	2.34	0.68
1:M:440:MET:O	1:M:445:ARG:NH2	2.27	0.68
1:N:43:ARG:CZ	1:T:129:ASP:HB3	2.25	0.66
1:N:42:ILE:HD13	1:N:52:ILE:HD11	1.78	0.66

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	669/682 (98%)	662 (99%)	7 (1%)	0	100	100
1	B	669/682 (98%)	662 (99%)	7 (1%)	0	100	100
1	C	669/682 (98%)	663 (99%)	6 (1%)	0	100	100
1	D	669/682 (98%)	663 (99%)	6 (1%)	0	100	100
1	E	566/682 (83%)	561 (99%)	5 (1%)	0	100	100
1	F	278/682 (41%)	276 (99%)	2 (1%)	0	100	100
1	G	669/682 (98%)	662 (99%)	7 (1%)	0	100	100
1	H	669/682 (98%)	663 (99%)	6 (1%)	0	100	100
1	I	669/682 (98%)	663 (99%)	6 (1%)	0	100	100
1	J	669/682 (98%)	663 (99%)	6 (1%)	0	100	100
1	K	669/682 (98%)	662 (99%)	7 (1%)	0	100	100
1	L	669/682 (98%)	663 (99%)	6 (1%)	0	100	100
1	M	389/682 (57%)	384 (99%)	5 (1%)	0	100	100
1	N	245/682 (36%)	241 (98%)	4 (2%)	0	100	100
1	O	669/682 (98%)	663 (99%)	6 (1%)	0	100	100
1	P	669/682 (98%)	663 (99%)	6 (1%)	0	100	100
1	Q	669/682 (98%)	663 (99%)	6 (1%)	0	100	100
1	R	669/682 (98%)	663 (99%)	6 (1%)	0	100	100
1	S	607/682 (89%)	601 (99%)	6 (1%)	0	100	100
1	T	669/682 (98%)	663 (99%)	6 (1%)	0	100	100
All	All	12120/13640 (89%)	12004 (99%)	116 (1%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	606/613 (99%)	602 (99%)	4 (1%)	76	79
1	B	606/613 (99%)	602 (99%)	4 (1%)	76	79
1	C	606/613 (99%)	602 (99%)	4 (1%)	76	79
1	D	606/613 (99%)	602 (99%)	4 (1%)	76	79
1	E	510/613 (83%)	507 (99%)	3 (1%)	78	81
1	F	253/613 (41%)	252 (100%)	1 (0%)	84	84
1	G	606/613 (99%)	602 (99%)	4 (1%)	76	79
1	H	606/613 (99%)	602 (99%)	4 (1%)	76	79
1	I	606/613 (99%)	602 (99%)	4 (1%)	76	79
1	J	606/613 (99%)	602 (99%)	4 (1%)	76	79
1	K	606/613 (99%)	602 (99%)	4 (1%)	76	79
1	L	606/613 (99%)	602 (99%)	4 (1%)	76	79
1	M	353/613 (58%)	352 (100%)	1 (0%)	86	85
1	N	226/613 (37%)	224 (99%)	2 (1%)	70	76
1	O	606/613 (99%)	602 (99%)	4 (1%)	76	79
1	P	606/613 (99%)	602 (99%)	4 (1%)	76	79
1	Q	606/613 (99%)	602 (99%)	4 (1%)	76	79
1	R	606/613 (99%)	602 (99%)	4 (1%)	76	79
1	S	556/613 (91%)	552 (99%)	4 (1%)	76	79
1	T	606/613 (99%)	602 (99%)	4 (1%)	76	79
All	All	10988/12260 (90%)	10917 (99%)	71 (1%)	76	81

5 of 71 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	Q	465	MET
1	R	64	VAL
1	S	465	MET

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	H	64	VAL
1	G	594	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 141 such sidechains are listed below:

Mol	Chain	Res	Type
1	Q	607	GLN
1	R	196	GLN
1	S	392	GLN
1	G	341	GLN
1	G	196	GLN

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)

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

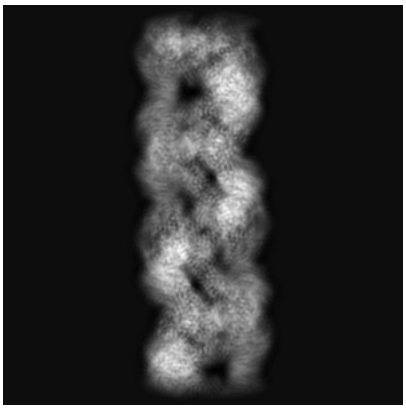
6 Map visualisation (i)

This section contains visualisations of the EMDB entry EMD-80589. These allow visual inspection of the internal detail of the map and identification of artifacts.

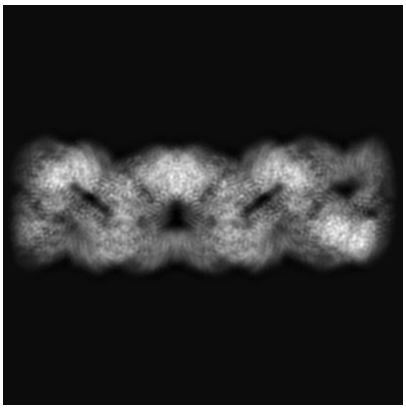
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections (i)

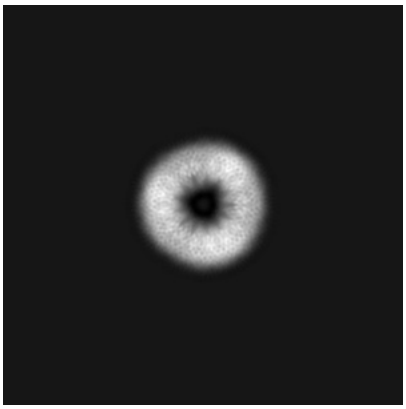
6.1.1 Primary map



X

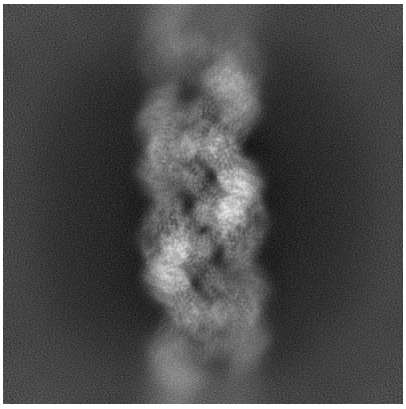


Y

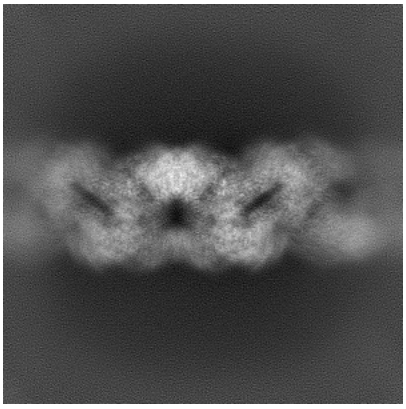


Z

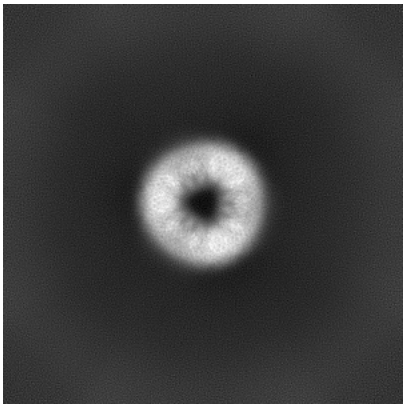
6.1.2 Raw map



X



Y

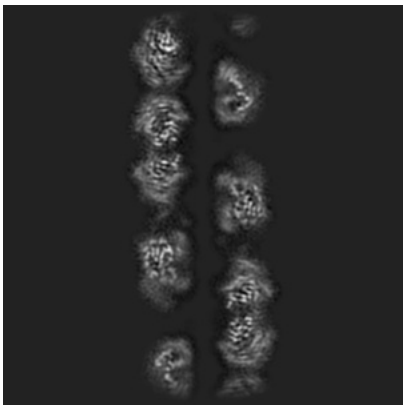


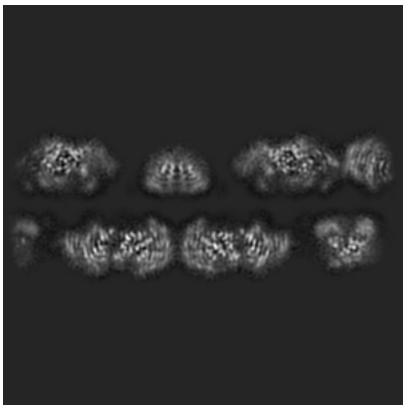
Z

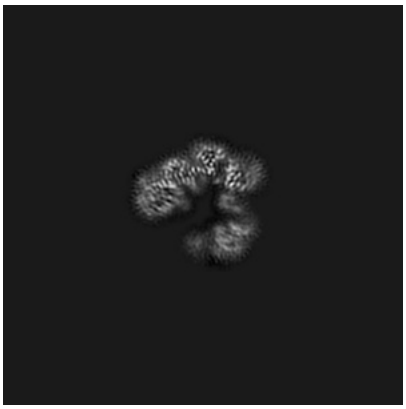
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

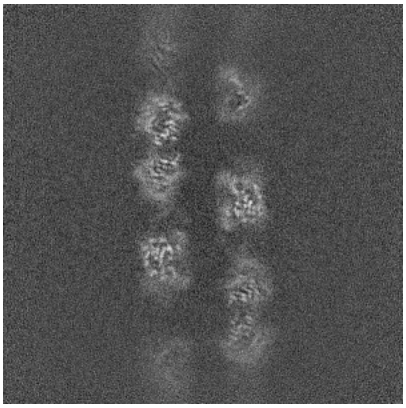
6.2.1 Primary map

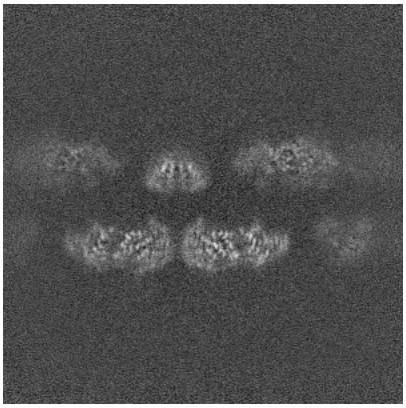

X Index: 200

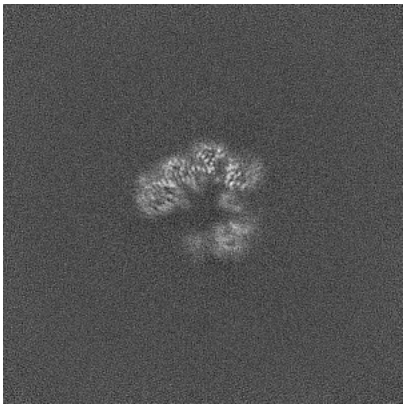

Y Index: 200


Z Index: 200

6.2.2 Raw map


X Index: 200

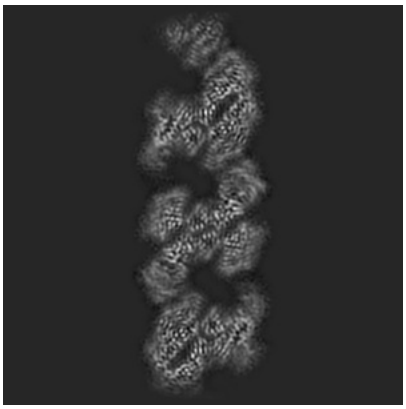

Y Index: 200

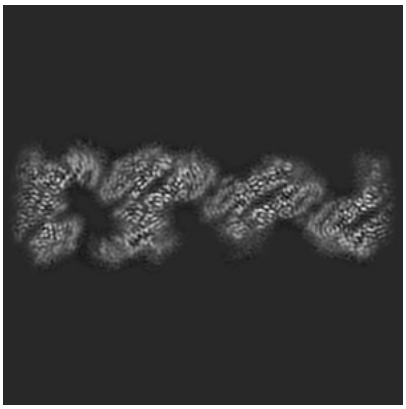

Z Index: 200

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

6.3 Largest variance slices (i)

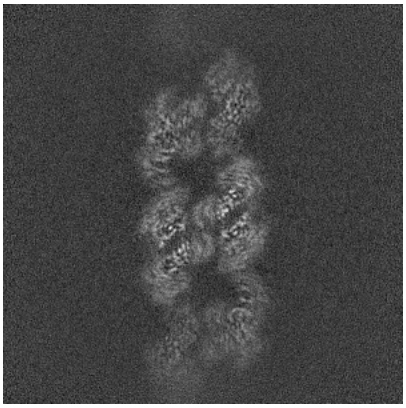
6.3.1 Primary map

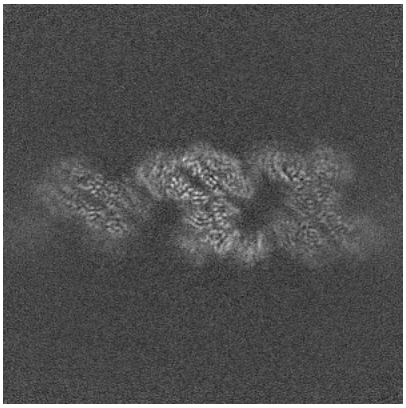

X Index: 232

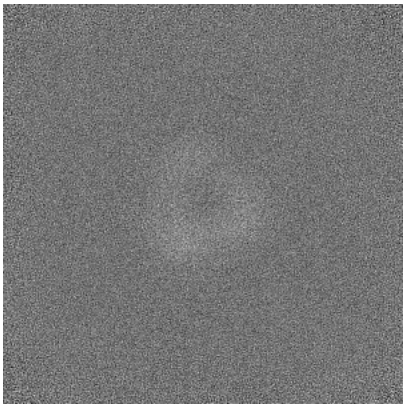

Y Index: 166

Z Index: 255

6.3.2 Raw map


X Index: 224

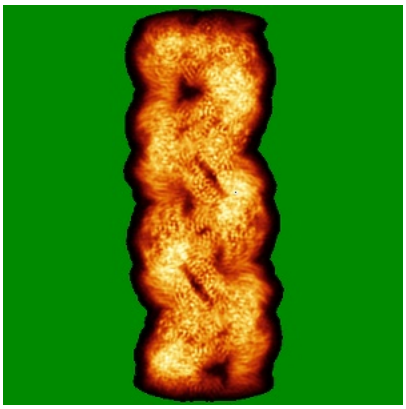

Y Index: 232

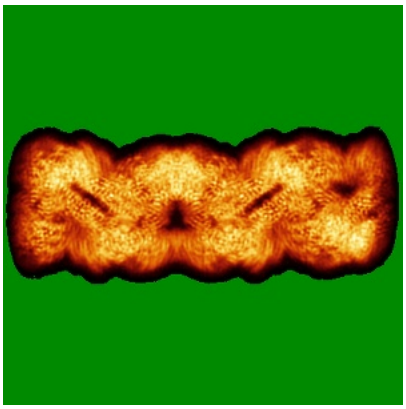

Z Index: 399

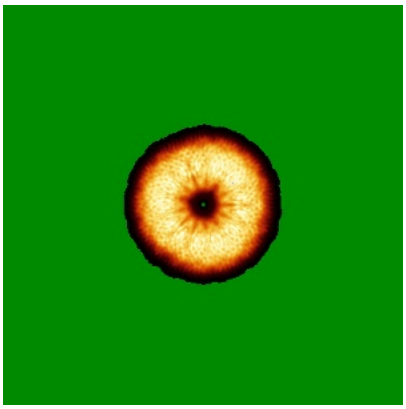
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

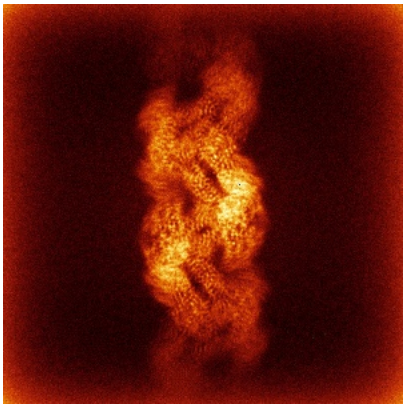
6.4.1 Primary map

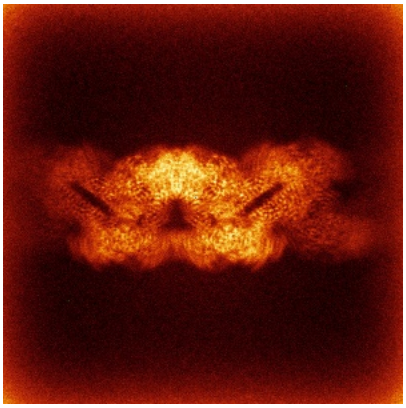

X

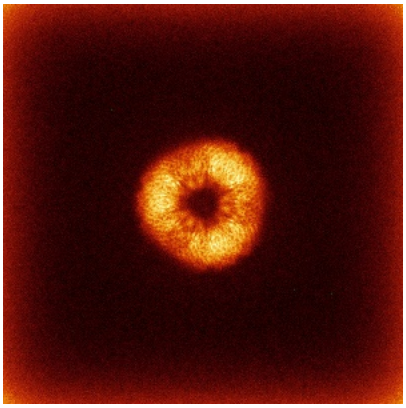

Y


Z

6.4.2 Raw map


X

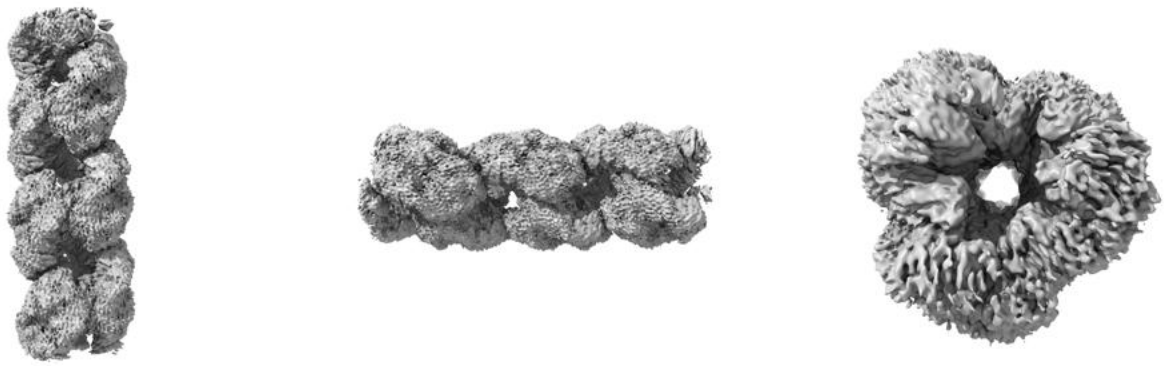

Y


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)

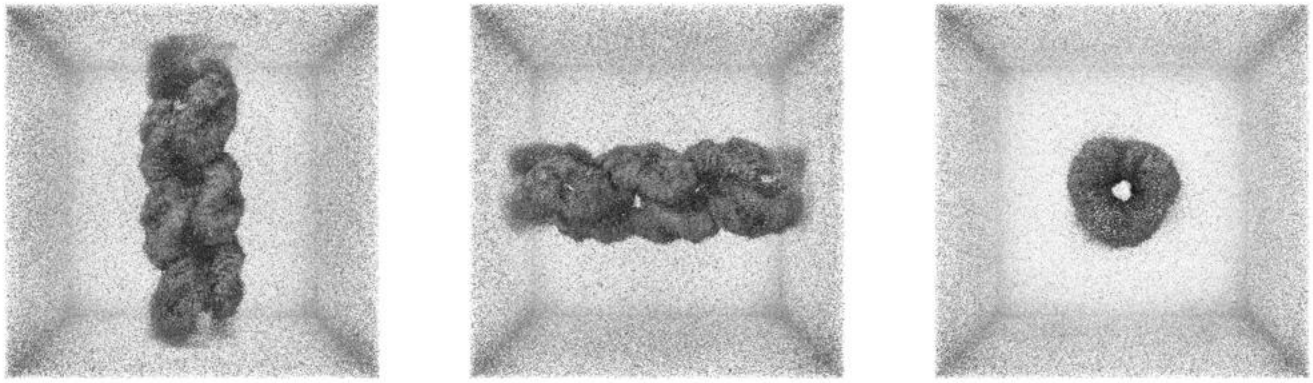
6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.05. 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



X Y Z

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.

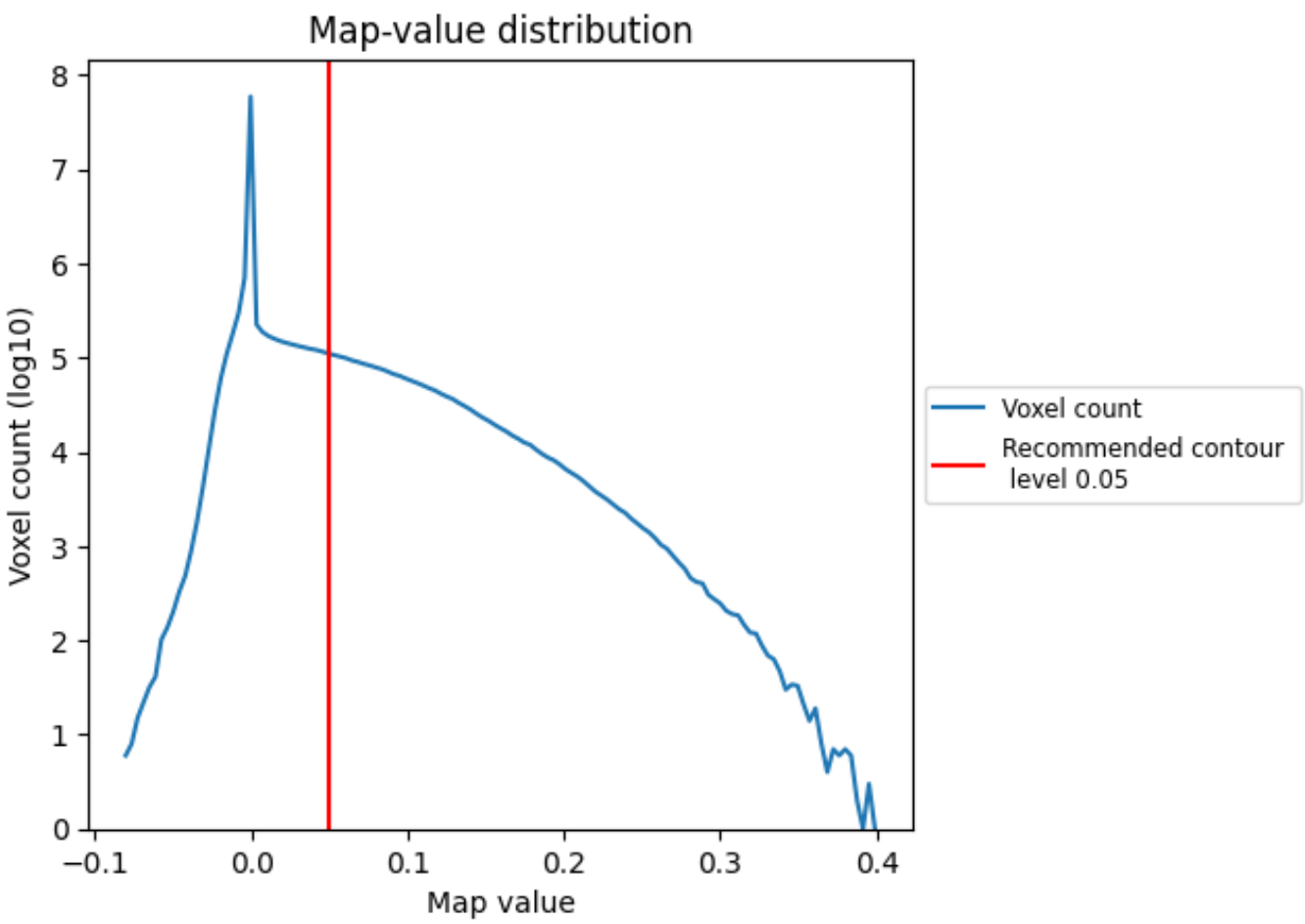
6.6 Mask visualisation (i)

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

7 Map analysis (i)

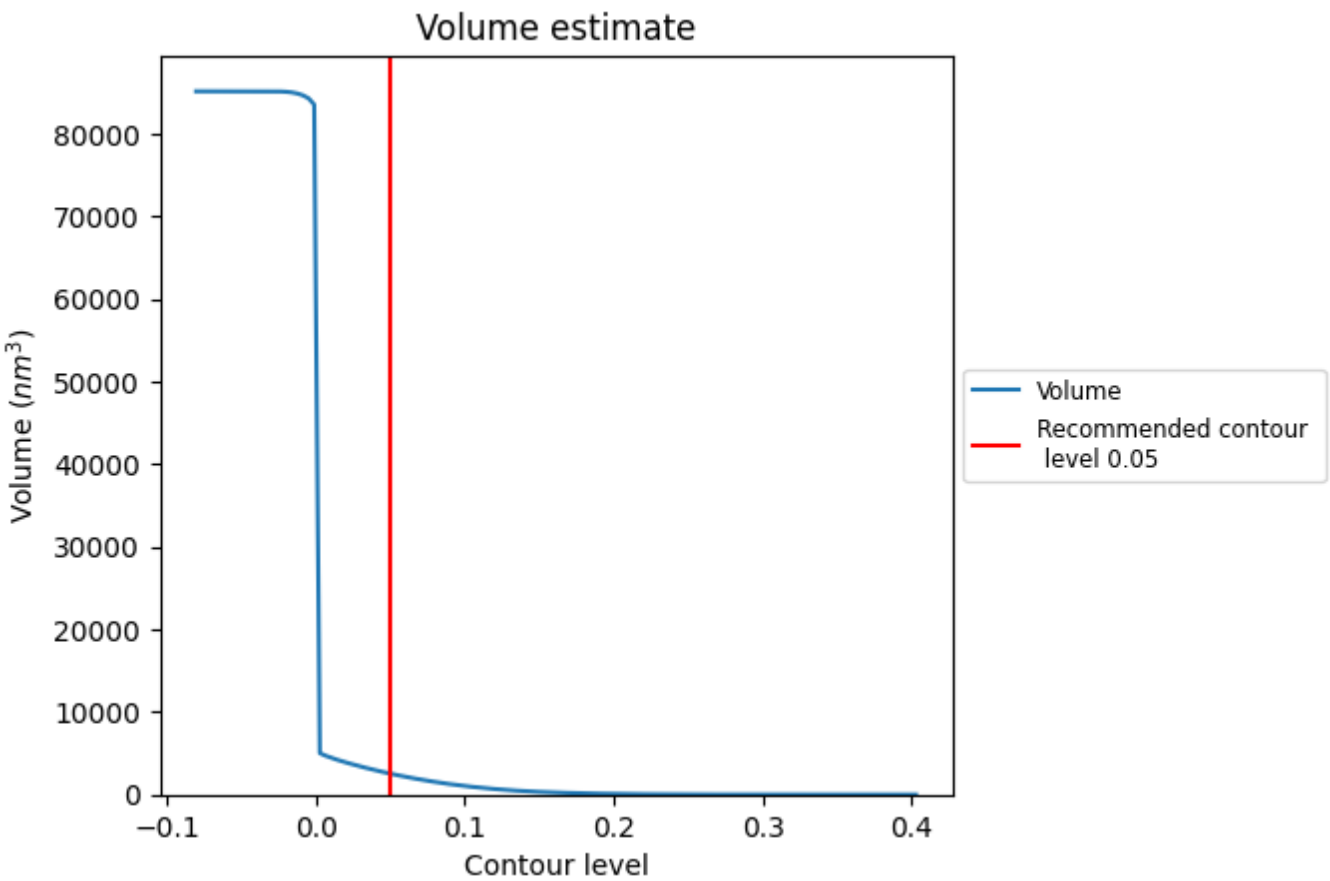
This section contains the results of statistical analysis of the map.

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.

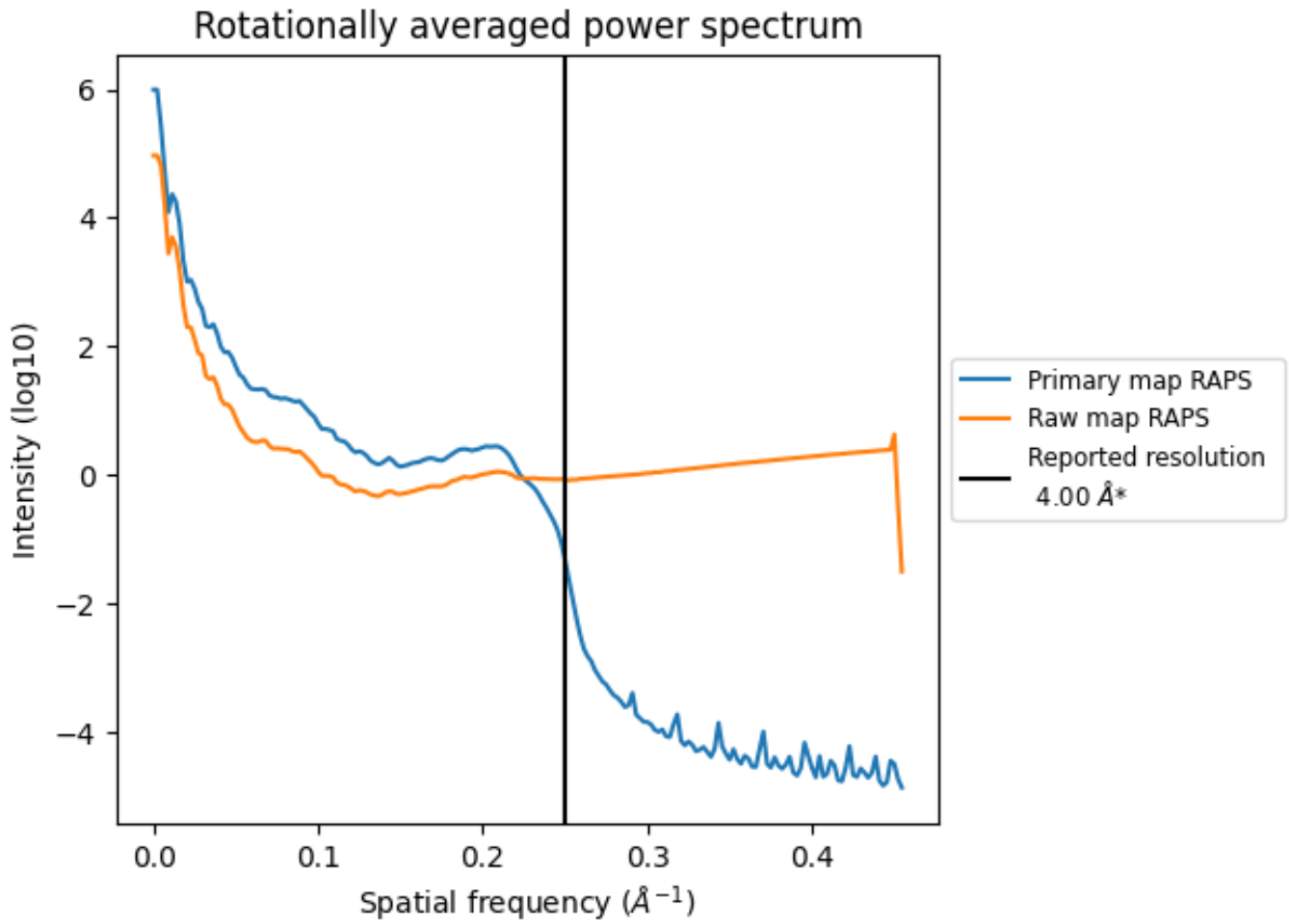
7.2 Volume estimate (i)



The volume at the recommended contour level is 2532 nm^3; this corresponds to an approximate mass of 2287 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 (i)

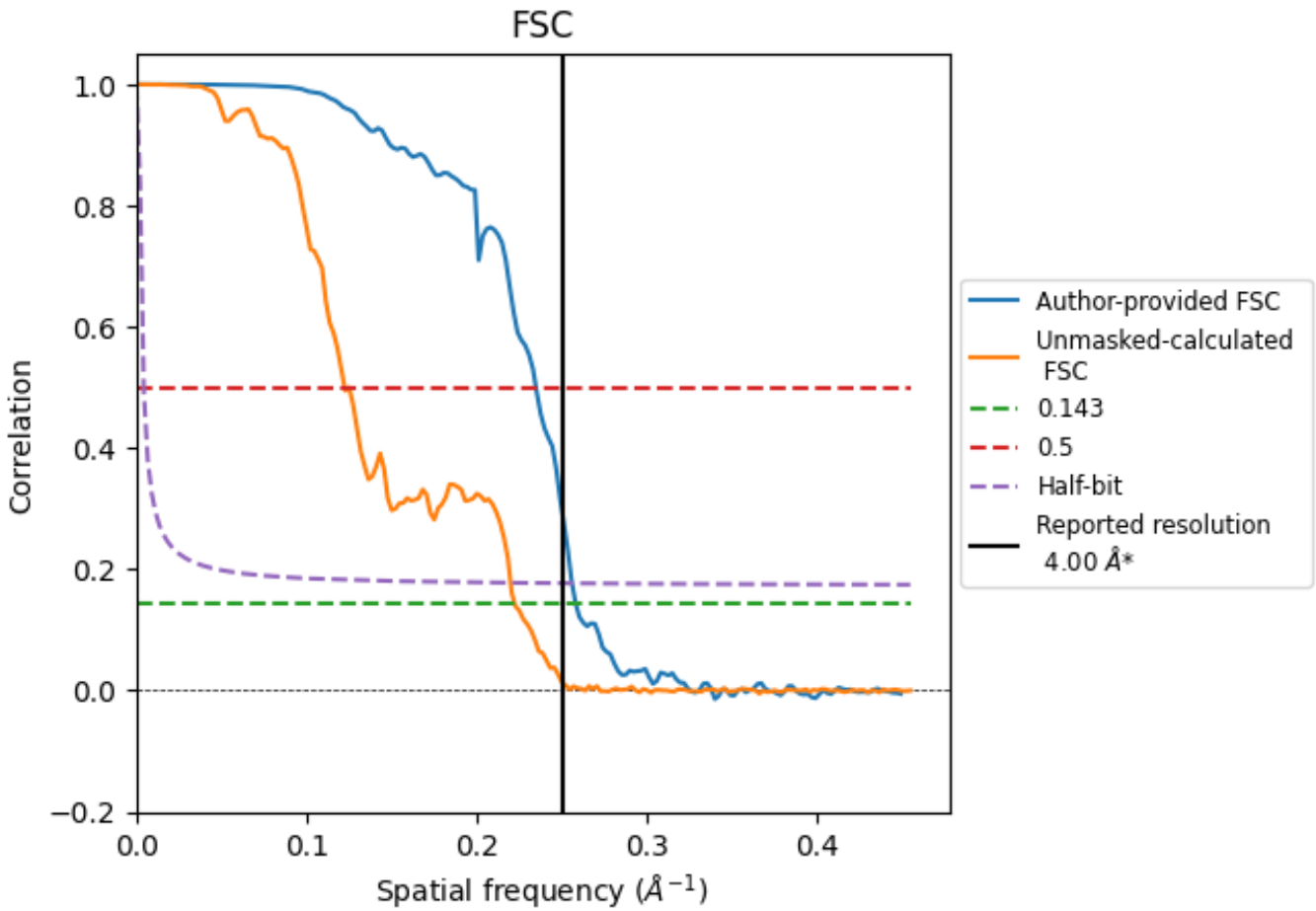


*Reported resolution corresponds to spatial frequency of 0.250 Å^{-1}

8 Fourier-Shell correlation (i)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC (i)



*Reported resolution corresponds to spatial frequency of 0.250 Å^{-1}

8.2 Resolution estimates (i)

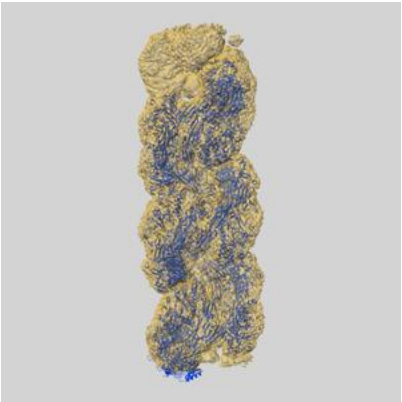
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.00	-	-
Author-provided FSC curve	3.88	4.26	3.91
Unmasked-calculated*	4.50	8.17	4.55

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 4.50 differs from the reported value 4.0 by more than 10 %

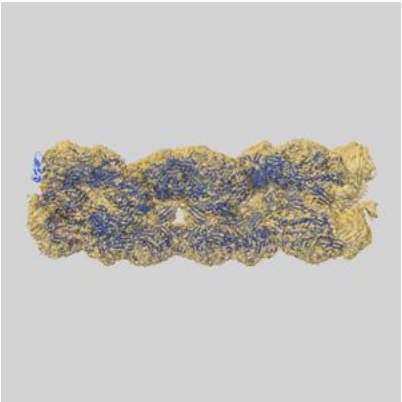
9 Map-model fit (i)

This section contains information regarding the fit between EMDB map EMD-80589 and PDB model 26EL. Per-residue inclusion information can be found in section 3 on page 6.

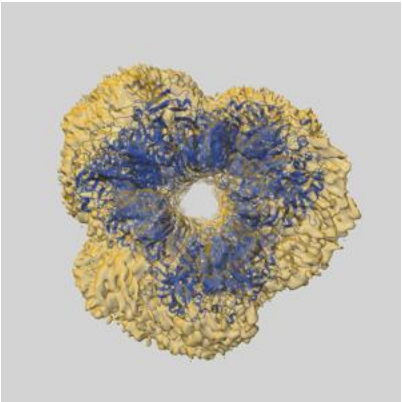
9.1 Map-model overlay (i)



X



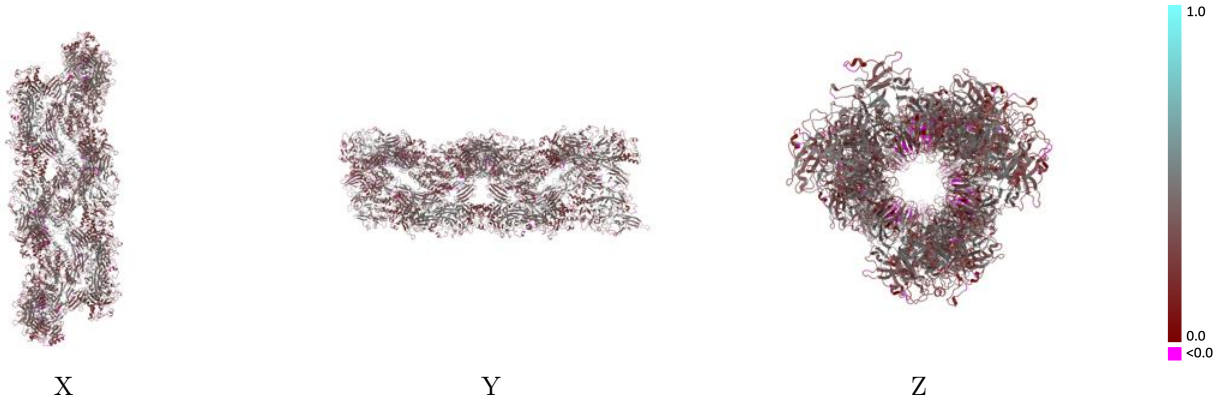
Y



Z

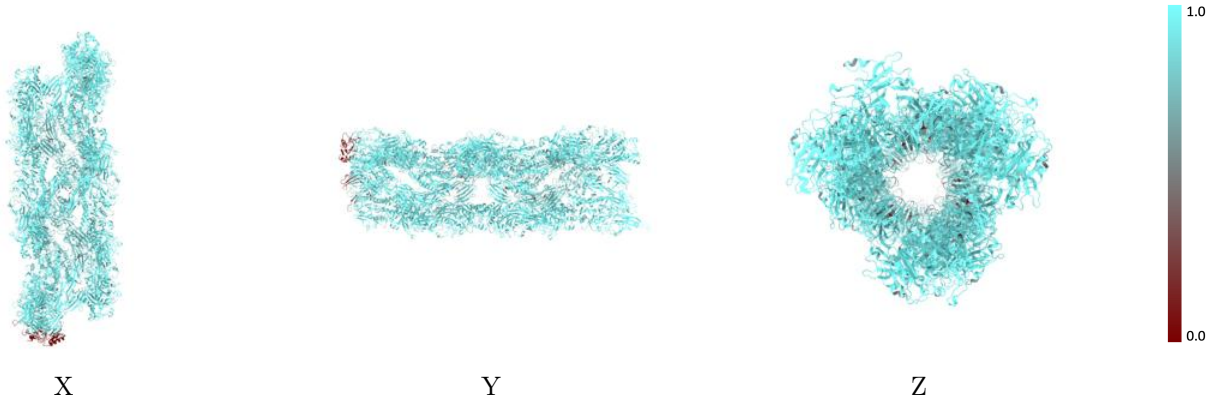
The images above show the 3D surface view of the map at the recommended contour level 0.05 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model (i)



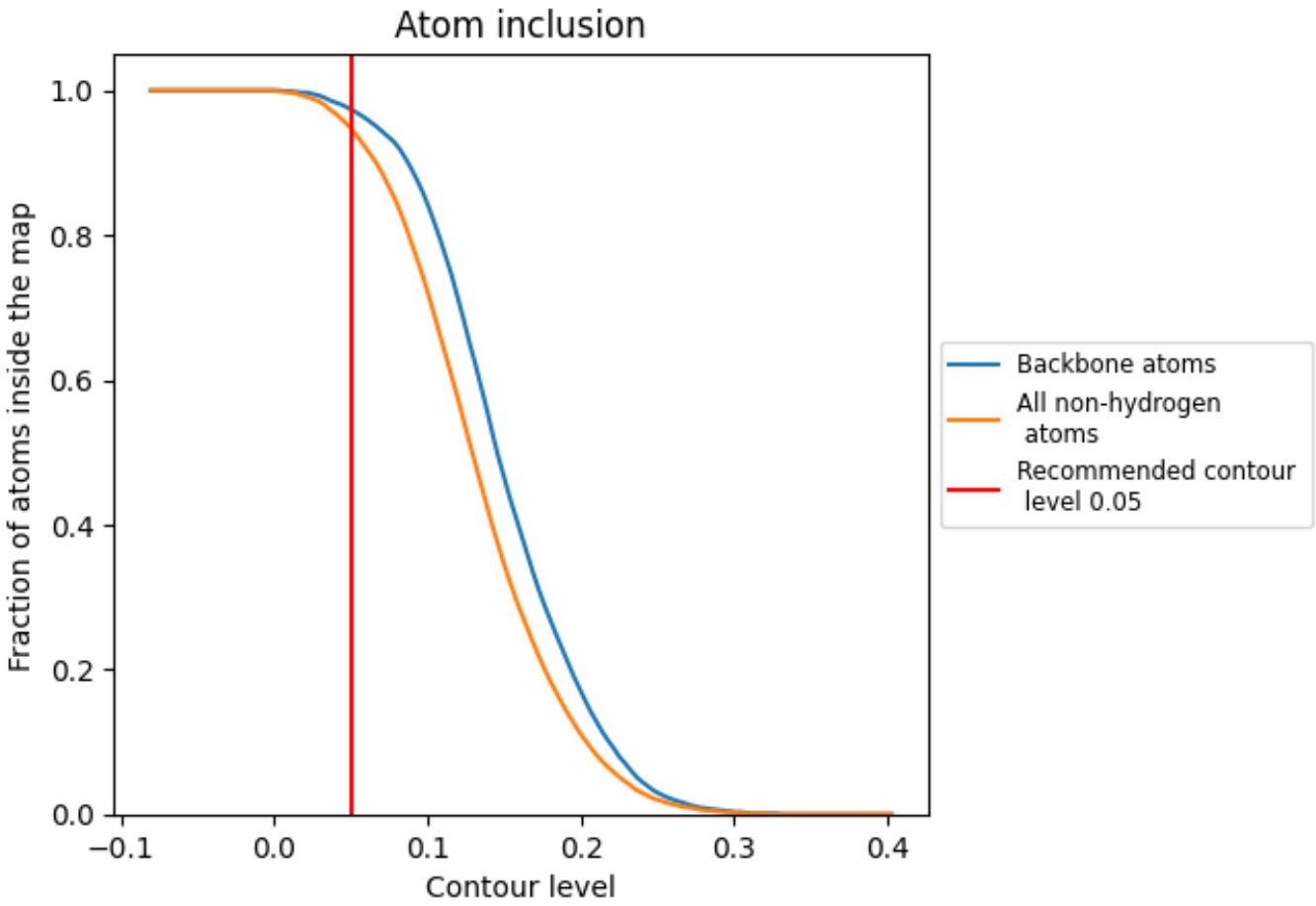
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.05).

9.4 Atom inclusion (i)



At the recommended contour level, 97% of all backbone atoms, 95% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary (i)

The table lists the average atom inclusion at the recommended contour level (0.05) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9480	0.3270
A	0.9630	0.3340
B	0.9580	0.3240
C	0.9610	0.3310
D	0.9620	0.3250
E	0.9650	0.3380
F	0.9610	0.3230
G	0.9610	0.3330
H	0.9630	0.3250
I	0.9610	0.3310
J	0.9620	0.3230
K	0.9630	0.3320
L	0.9620	0.3230
M	0.9610	0.3160
N	0.8600	0.2930
O	0.9590	0.3320
P	0.9620	0.3230
Q	0.9610	0.3300
R	0.9630	0.3250
S	0.7880	0.3290
T	0.9070	0.3220