



wwPDB EM Validation Summary Report ⓘ

Mar 4, 2024 – 10:40 AM EST

PDB ID : 6E30
EMDB ID : EMD-8972
Title : Mechanism of cellular recognition by PCV2
Authors : Khayat, R.; Dhindwal, S.
Deposited on : 2018-07-12
Resolution : 3.50 Å(reported)

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

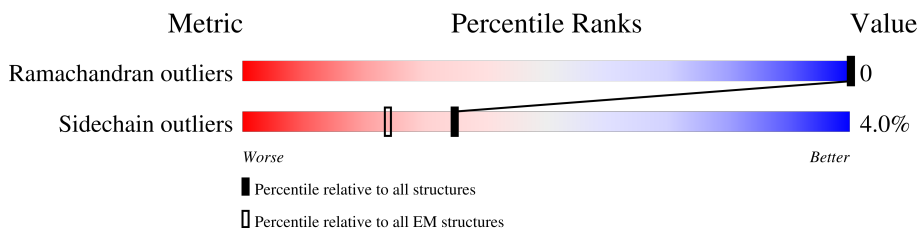
EMDB validation analysis : 0.0.1.dev70
Mogul : 1.8.5 (274361), CSD as541be (2020)
MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36

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 3.50 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.














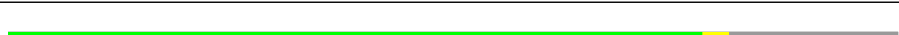

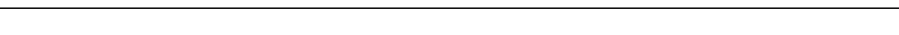
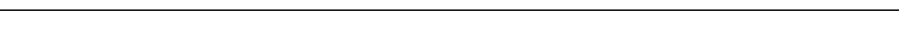
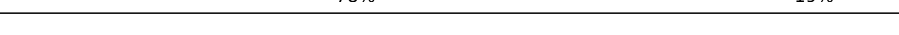

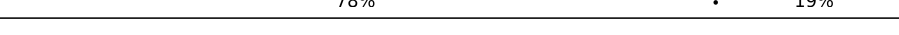







Metric	Whole archive (#Entries)	EM structures (#Entries)
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A1	233	81% 19%
1	A2	233	78% 19%
1	A3	233	78% 19%
1	A4	233	78% 19%
1	A5	233	78% 19%
1	A6	233	78% 19%
1	A7	233	78% 19%
1	A8	233	78% 19%
1	A9	233	78% 19%












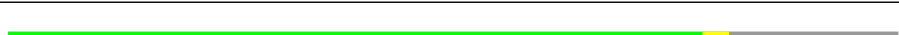

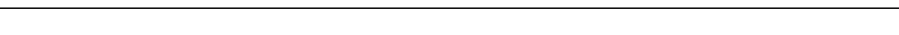
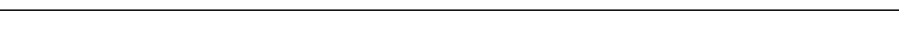
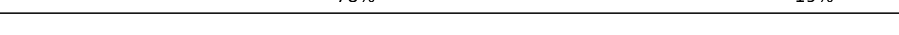

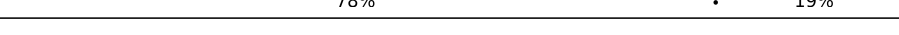







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Mol	Chain	Length	Quality of chain
1	AA	233	 78% 19%
1	AB	233	 78% 19%
1	AC	233	 78% 19%
1	AD	233	 78% 19%
1	AE	233	 78% 19%
1	AF	233	 78% 19%
1	AG	233	 78% 19%
1	AH	233	 78% 19%
1	AI	233	 78% 19%
1	AJ	233	 78% 19%
1	AK	233	 78% 19%
1	AL	233	 78% 19%
1	AM	233	 78% 19%
1	AN	233	 78% 19%
1	AO	233	 78% 19%
1	AP	233	 78% 19%
1	AQ	233	 78% 19%
1	AR	233	 78% 19%
1	AS	233	 78% 19%
1	AT	233	 78% 19%
1	AU	233	 78% 19%
1	AV	233	 78% 19%
1	AW	233	 78% 19%
1	AX	233	 78% 19%
1	AY	233	 78% 19%


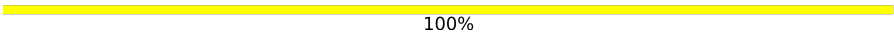
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Mol	Chain	Length	Quality of chain
1	AZ	233	 78% 19%
1	Aa	233	 78% 19%
1	Ab	233	 78% 19%
1	Ac	233	 78% 19%
1	Ad	233	 78% 19%
1	Ae	233	 78% 19%
1	Af	233	 78% 19%
1	Ag	233	 78% 19%
1	Ah	233	 78% 19%
1	Ai	233	 78% 19%
1	Aj	233	 78% 19%
1	Ak	233	 78% 19%
1	Al	233	 78% 19%
1	Am	233	 78% 19%
1	An	233	 78% 19%
1	Ao	233	 78% 19%
1	Ap	233	 78% 19%
1	Aq	233	 78% 19%
1	Ar	233	 78% 19%
1	As	233	 78% 19%
1	At	233	 78% 19%
1	Au	233	 78% 19%
1	Av	233	 78% 19%
1	Aw	233	 78% 19%
1	Ax	233	 78% 19%

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Mol	Chain	Length	Quality of chain
1	Ay	233	 78% . 19%
2	A	5	 100%

2 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 183270 atoms, of which 90180 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 Capsid protein of PCV2.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	S		
1	A1	189	3053	995	1503	268	283	4	0	0
1	A2	189	3053	995	1503	268	283	4	0	0
1	A3	189	3053	995	1503	268	283	4	0	0
1	A4	189	3053	995	1503	268	283	4	0	0
1	A5	189	3053	995	1503	268	283	4	0	0
1	A6	189	3053	995	1503	268	283	4	0	0
1	A7	189	3053	995	1503	268	283	4	0	0
1	A8	189	3053	995	1503	268	283	4	0	0
1	A9	189	3053	995	1503	268	283	4	0	0
1	AA	189	3053	995	1503	268	283	4	0	0
1	AB	189	3053	995	1503	268	283	4	0	0
1	AC	189	3053	995	1503	268	283	4	0	0
1	AD	189	3053	995	1503	268	283	4	0	0
1	AE	189	3053	995	1503	268	283	4	0	0
1	AF	189	3053	995	1503	268	283	4	0	0
1	AG	189	3053	995	1503	268	283	4	0	0
1	AH	189	3053	995	1503	268	283	4	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace	
1	AI	189	Total 3053	C 995	H 1503	N 268	O 283	S 4	0	0
1	AJ	189	Total 3053	C 995	H 1503	N 268	O 283	S 4	0	0
1	AK	189	Total 3053	C 995	H 1503	N 268	O 283	S 4	0	0
1	AL	189	Total 3053	C 995	H 1503	N 268	O 283	S 4	0	0
1	AM	189	Total 3053	C 995	H 1503	N 268	O 283	S 4	0	0
1	AN	189	Total 3053	C 995	H 1503	N 268	O 283	S 4	0	0
1	AO	189	Total 3053	C 995	H 1503	N 268	O 283	S 4	0	0
1	AP	189	Total 3053	C 995	H 1503	N 268	O 283	S 4	0	0
1	AQ	189	Total 3053	C 995	H 1503	N 268	O 283	S 4	0	0
1	AR	189	Total 3053	C 995	H 1503	N 268	O 283	S 4	0	0
1	AS	189	Total 3053	C 995	H 1503	N 268	O 283	S 4	0	0
1	AT	189	Total 3053	C 995	H 1503	N 268	O 283	S 4	0	0
1	AU	189	Total 3053	C 995	H 1503	N 268	O 283	S 4	0	0
1	AV	189	Total 3053	C 995	H 1503	N 268	O 283	S 4	0	0
1	AW	189	Total 3053	C 995	H 1503	N 268	O 283	S 4	0	0
1	AX	189	Total 3053	C 995	H 1503	N 268	O 283	S 4	0	0
1	AY	189	Total 3053	C 995	H 1503	N 268	O 283	S 4	0	0
1	AZ	189	Total 3053	C 995	H 1503	N 268	O 283	S 4	0	0
1	Aa	189	Total 3053	C 995	H 1503	N 268	O 283	S 4	0	0
1	Ab	189	Total 3053	C 995	H 1503	N 268	O 283	S 4	0	0
1	Ac	189	Total 3053	C 995	H 1503	N 268	O 283	S 4	0	0

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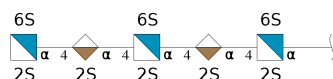
Mol	Chain	Residues	Atoms					AltConf	Trace	
1	Ad	189	Total	C	H	N	O	S	0	0
			3053	995	1503	268	283	4		
1	Ae	189	Total	C	H	N	O	S	0	0
			3053	995	1503	268	283	4		
1	Af	189	Total	C	H	N	O	S	0	0
			3053	995	1503	268	283	4		
1	Ag	189	Total	C	H	N	O	S	0	0
			3053	995	1503	268	283	4		
1	Ah	189	Total	C	H	N	O	S	0	0
			3053	995	1503	268	283	4		
1	Ai	189	Total	C	H	N	O	S	0	0
			3053	995	1503	268	283	4		
1	Aj	189	Total	C	H	N	O	S	0	0
			3053	995	1503	268	283	4		
1	Ak	189	Total	C	H	N	O	S	0	0
			3053	995	1503	268	283	4		
1	Al	189	Total	C	H	N	O	S	0	0
			3053	995	1503	268	283	4		
1	Am	189	Total	C	H	N	O	S	0	0
			3053	995	1503	268	283	4		
1	An	189	Total	C	H	N	O	S	0	0
			3053	995	1503	268	283	4		
1	Ao	189	Total	C	H	N	O	S	0	0
			3053	995	1503	268	283	4		
1	Ap	189	Total	C	H	N	O	S	0	0
			3053	995	1503	268	283	4		
1	Aq	189	Total	C	H	N	O	S	0	0
			3053	995	1503	268	283	4		
1	Ar	189	Total	C	H	N	O	S	0	0
			3053	995	1503	268	283	4		
1	As	189	Total	C	H	N	O	S	0	0
			3053	995	1503	268	283	4		
1	At	189	Total	C	H	N	O	S	0	0
			3053	995	1503	268	283	4		
1	Au	189	Total	C	H	N	O	S	0	0
			3053	995	1503	268	283	4		
1	Av	189	Total	C	H	N	O	S	0	0
			3053	995	1503	268	283	4		
1	Aw	189	Total	C	H	N	O	S	0	0
			3053	995	1503	268	283	4		
1	Ax	189	Total	C	H	N	O	S	0	0
			3053	995	1503	268	283	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace	
			Total	C	H	N	O			S
1	Ay	189	3053	995	1503	268	283	4	0	0

- Molecule 2 is an oligosaccharide called 2-deoxy-6-O-sulfo-2-(sulfoamino)-alpha-D-glucopyranose-(1-4)-2-O-sulfo-alpha-L-idopyranuronic acid-(1-4)-2-deoxy-6-O-sulfo-2-(sulfoamino)-alpha-D-glucopyranose-(1-4)-2-O-sulfo-alpha-L-idopyranuronic acid-(1-4)-2-deoxy-6-O-sulfo-2-(sulfoamino)-alpha-D-glucopyranose.




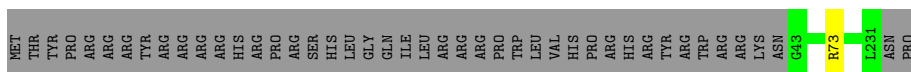
Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	A	5	90	30	3	49	8	0	0

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.

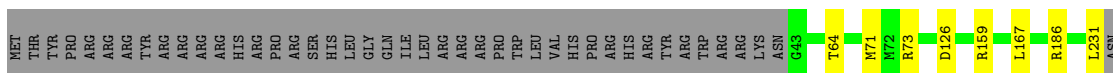
- Molecule 1: Capsid protein of PCV2

Chain A1:  81% 19%




- Molecule 1: Capsid protein of PCV2

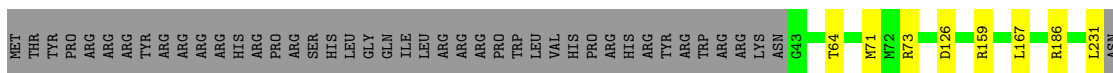
Chain A2:  78% 19%



PRO


- Molecule 1: Capsid protein of PCV2

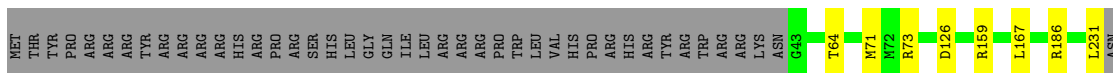
Chain A3:  78% 19%



PRO


- Molecule 1: Capsid protein of PCV2

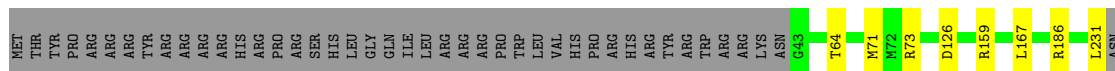
Chain A4:  78% 19%



PRO


- Molecule 1: Capsid protein of PCV2

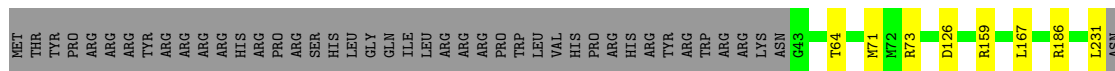
Chain A5:  78% 19%



PRO


• Molecule 1: Capsid protein of PCV2

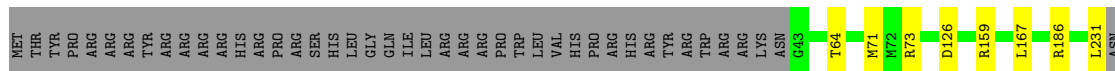
Chain A6:  78% 19%



PRO


• Molecule 1: Capsid protein of PCV2

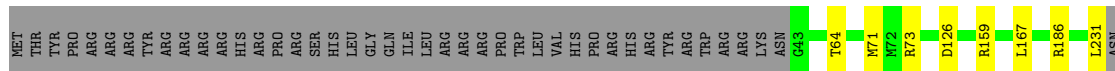
Chain A7:  78% 19%



PRO


• Molecule 1: Capsid protein of PCV2

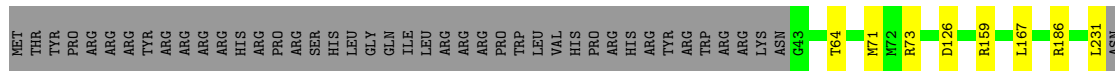
Chain A8:  78% 19%



PRO


• Molecule 1: Capsid protein of PCV2

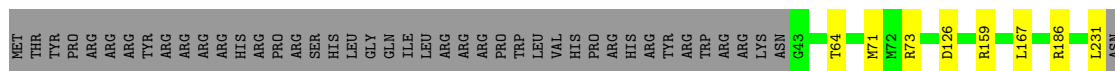
Chain A9:  78% 19%



PRO

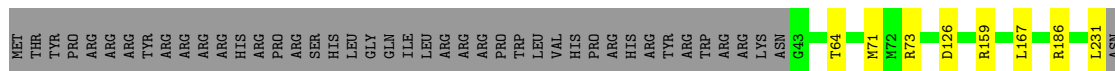
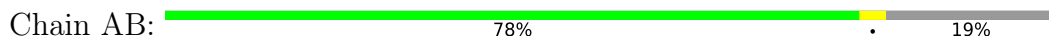
• Molecule 1: Capsid protein of PCV2

Chain AA:  78% 19%



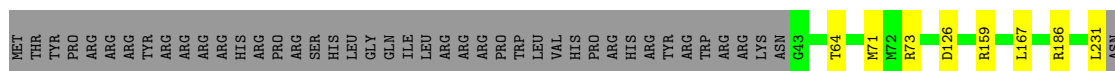
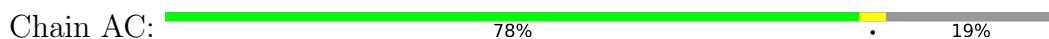
PRO

• Molecule 1: Capsid protein of PCV2



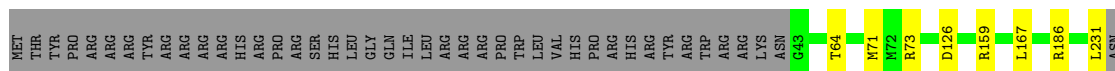
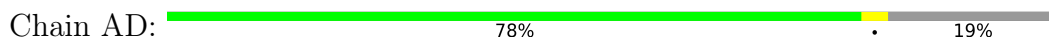
PRO

• Molecule 1: Capsid protein of PCV2



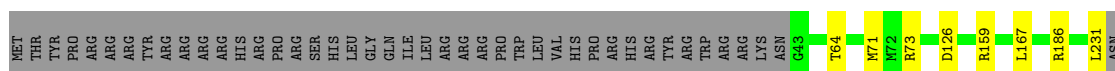
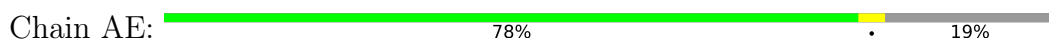
PRO

• Molecule 1: Capsid protein of PCV2



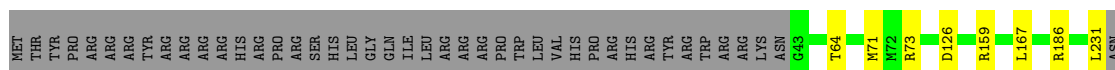
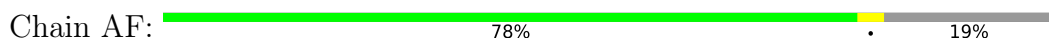
PRO

• Molecule 1: Capsid protein of PCV2




PRO

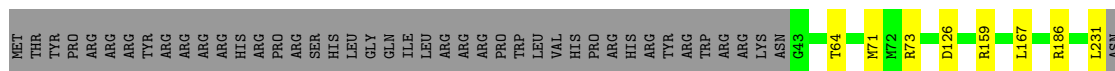
• Molecule 1: Capsid protein of PCV2



PRO


- Molecule 1: Capsid protein of PCV2

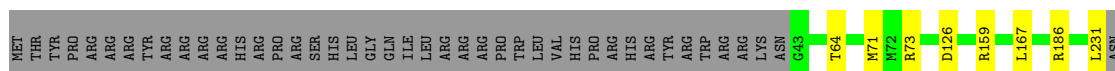
Chain AG:  78% 19%



PRO


- Molecule 1: Capsid protein of PCV2

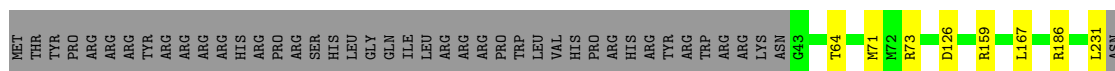
Chain AH:  78% 19%



PRO


- Molecule 1: Capsid protein of PCV2

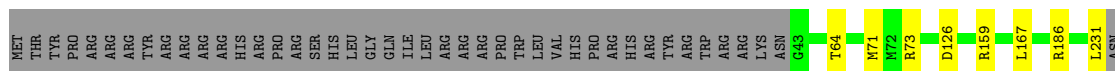
Chain AI:  78% 19%



PRO


- Molecule 1: Capsid protein of PCV2

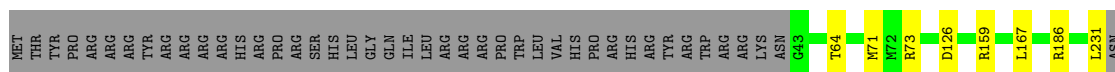
Chain AJ:  78% 19%



PRO

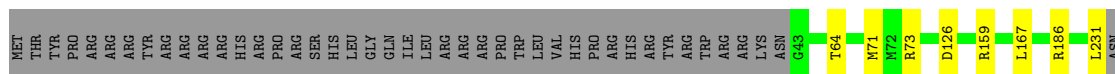
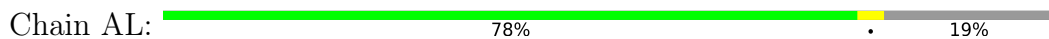
- Molecule 1: Capsid protein of PCV2

Chain AK:  78% 19%



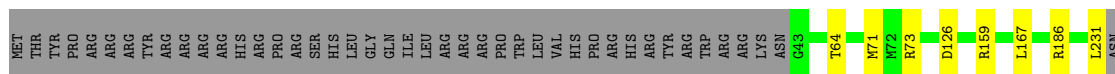
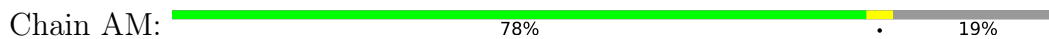
PRO

• Molecule 1: Capsid protein of PCV2



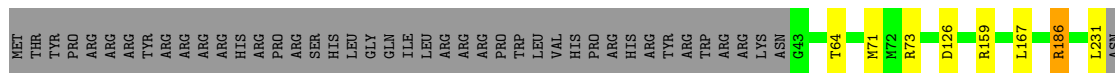
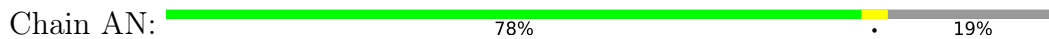
PRO

• Molecule 1: Capsid protein of PCV2



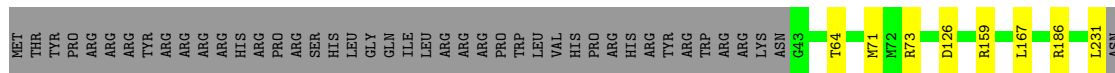
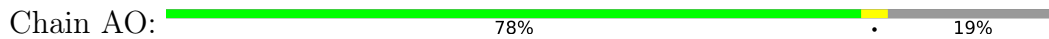
PRO

• Molecule 1: Capsid protein of PCV2



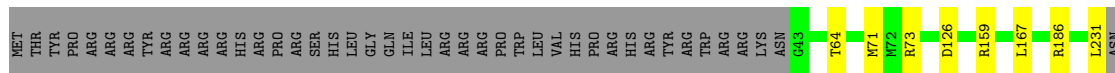
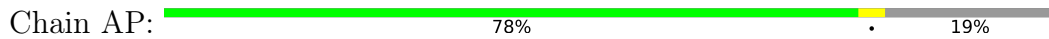
PRO

• Molecule 1: Capsid protein of PCV2




PRO

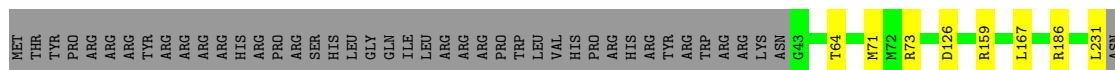
• Molecule 1: Capsid protein of PCV2



PRO


• Molecule 1: Capsid protein of PCV2

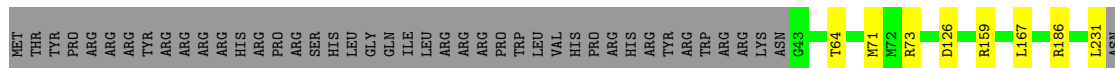
Chain AQ:  78% 19%



PRO


• Molecule 1: Capsid protein of PCV2

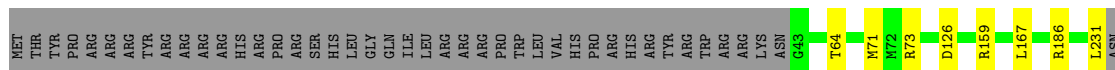
Chain AR:  78% 19%



PRO


• Molecule 1: Capsid protein of PCV2

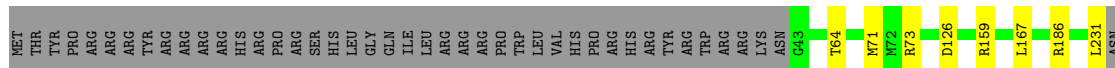
Chain AS:  78% 19%



PRO


• Molecule 1: Capsid protein of PCV2

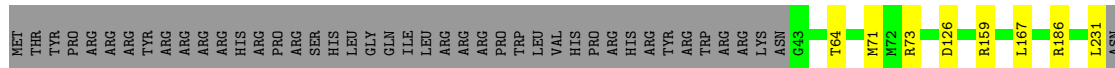
Chain AT:  78% 19%



PRO


• Molecule 1: Capsid protein of PCV2

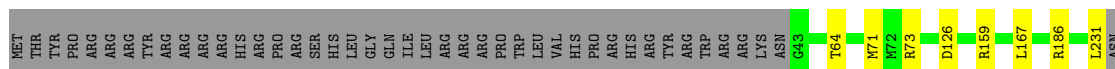
Chain AU:  78% 19%



PRO

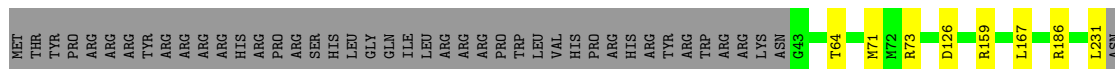
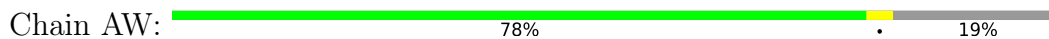
• Molecule 1: Capsid protein of PCV2

Chain AV:  78% 19%



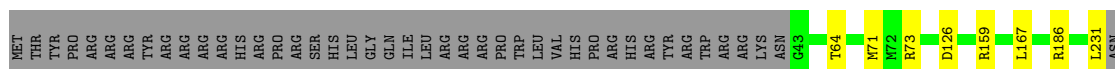
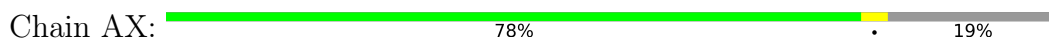
PRO

• Molecule 1: Capsid protein of PCV2



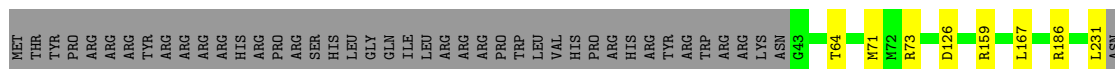
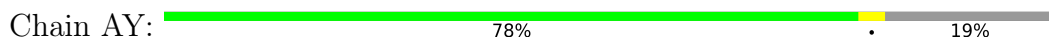
PRO

• Molecule 1: Capsid protein of PCV2



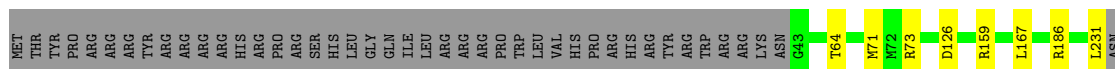
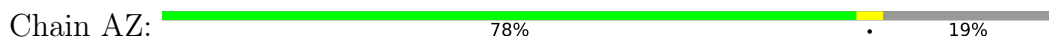
PRO

• Molecule 1: Capsid protein of PCV2



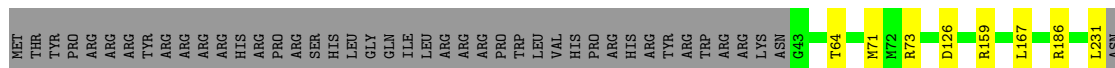
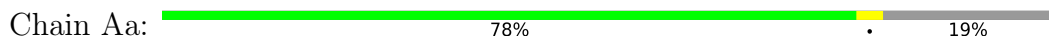
PRO

• Molecule 1: Capsid protein of PCV2



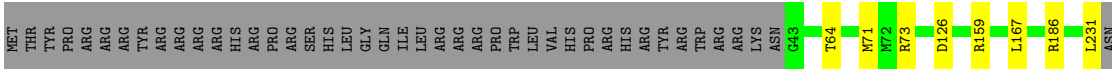
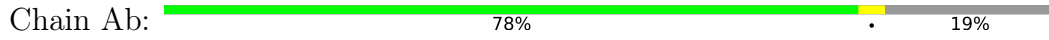
PRO

• Molecule 1: Capsid protein of PCV2



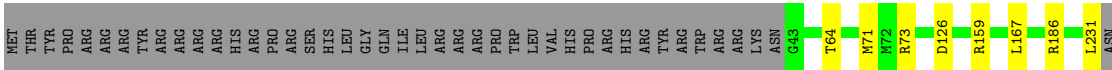
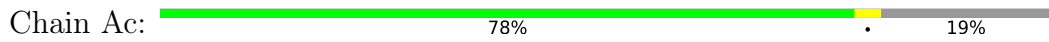
PRO

- Molecule 1: Capsid protein of PCV2



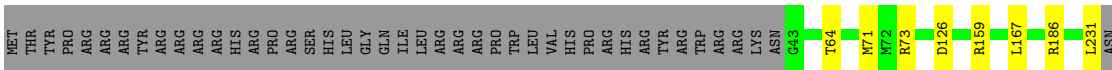
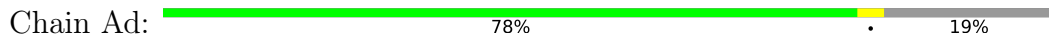
PRO

- Molecule 1: Capsid protein of PCV2



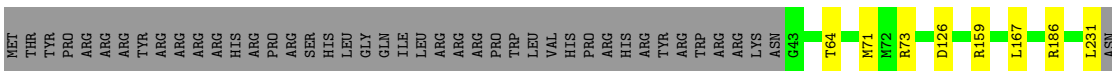
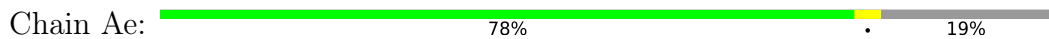
PRO

- Molecule 1: Capsid protein of PCV2



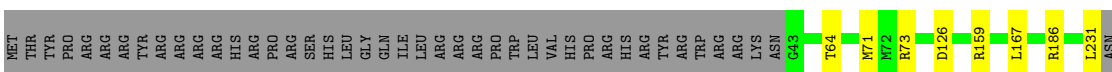
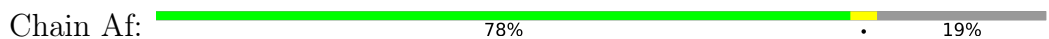
PRO

- Molecule 1: Capsid protein of PCV2



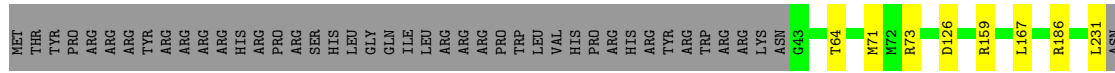
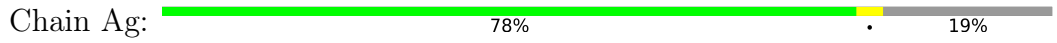
PRO

- Molecule 1: Capsid protein of PCV2



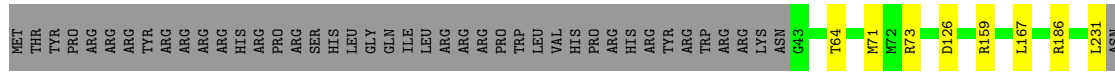
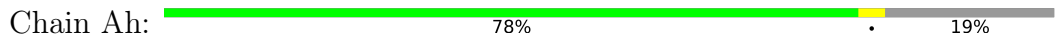
PRO

• Molecule 1: Capsid protein of PCV2



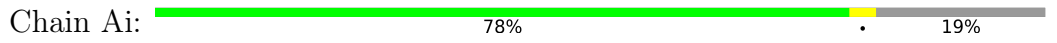
PRO

• Molecule 1: Capsid protein of PCV2



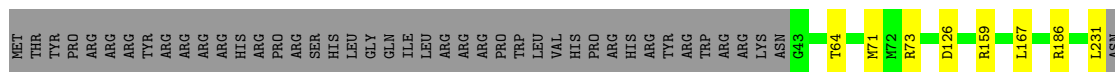
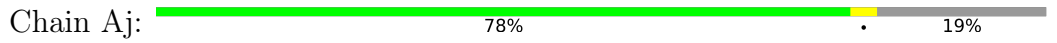
PRO

• Molecule 1: Capsid protein of PCV2



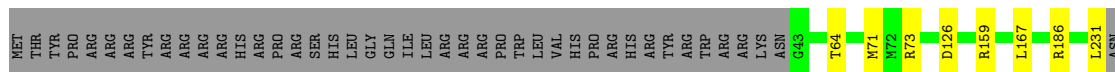
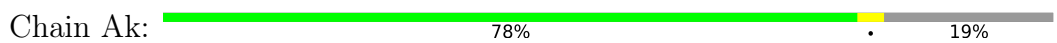
PRO

• Molecule 1: Capsid protein of PCV2




PRO

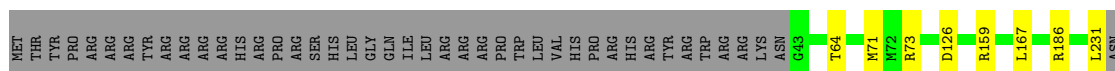
• Molecule 1: Capsid protein of PCV2



PRO


• Molecule 1: Capsid protein of PCV2

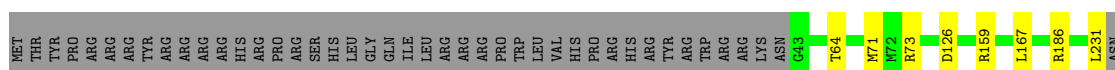
Chain Al:  78% 19%



PRO


- Molecule 1: Capsid protein of PCV2

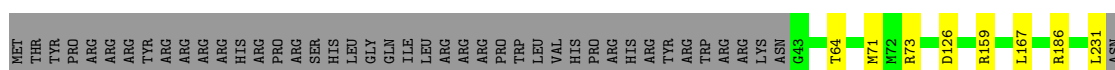
Chain Am:  78% 19%



PRO


- Molecule 1: Capsid protein of PCV2

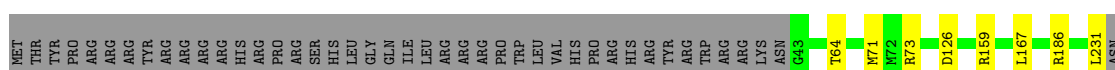
Chain An:  78% 19%



PRO


- Molecule 1: Capsid protein of PCV2

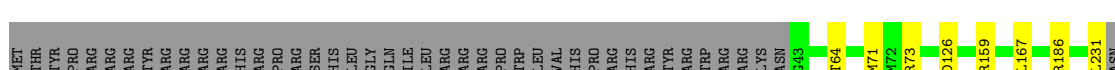
Chain Ao:  78% 19%



PRO

- Molecule 1: Capsid protein of PCV2

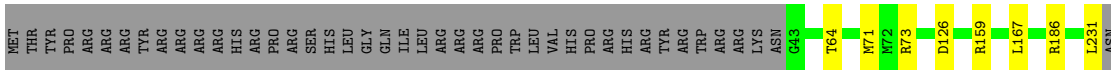
Chain Ap:  78% 19%



PRO

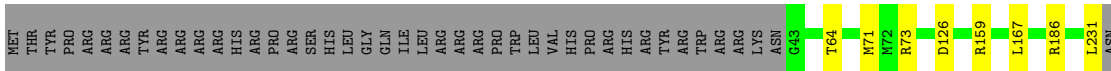
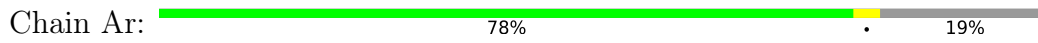
- Molecule 1: Capsid protein of PCV2

Chain Aq:  78% 19%



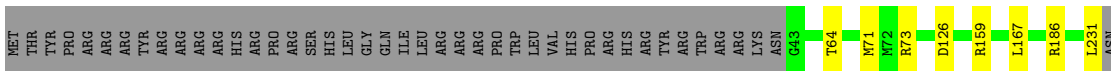
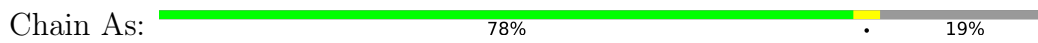
PRO

• Molecule 1: Capsid protein of PCV2



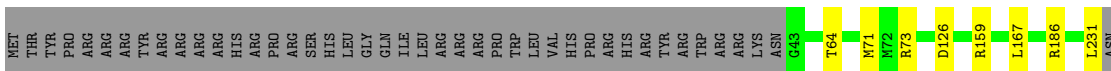
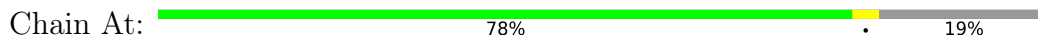
PRO

• Molecule 1: Capsid protein of PCV2



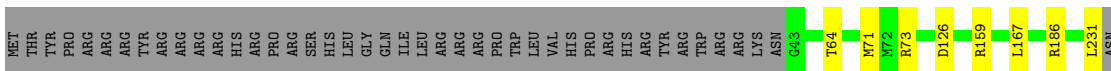
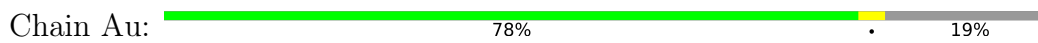
PRO

• Molecule 1: Capsid protein of PCV2



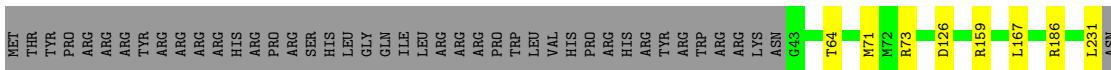
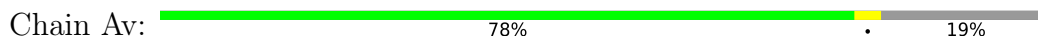
PRO

• Molecule 1: Capsid protein of PCV2



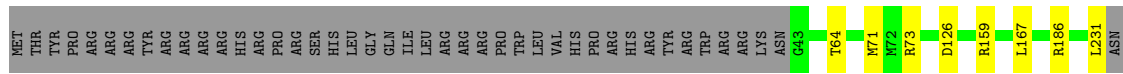
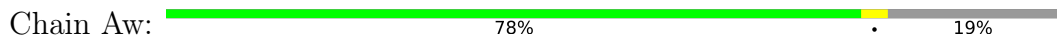
PRO

• Molecule 1: Capsid protein of PCV2



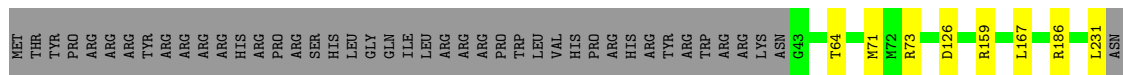
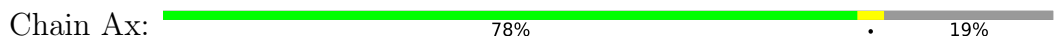
PRO

- Molecule 1: Capsid protein of PCV2



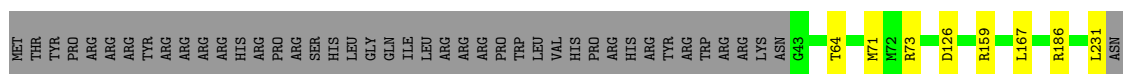
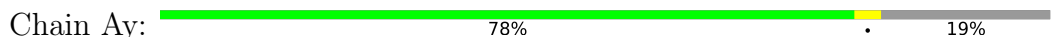
PRO

- Molecule 1: Capsid protein of PCV2



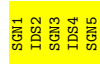
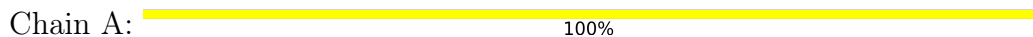
PRO

- Molecule 1: Capsid protein of PCV2



PRO

- Molecule 2: 2-deoxy-6-O-sulfo-2-(sulfoamino)-alpha-D-glucopyranose-(1-4)-2-O-sulfo-alpha-L-idopyranuronic acid-(1-4)-2-deoxy-6-O-sulfo-2-(sulfoamino)-alpha-D-glucopyranose-(1-4)-2-O-sulfo-alpha-L-idopyranuronic acid-(1-4)-2-deoxy-6-O-sulfo-2-(sulfoamino)-alpha-D-glucopyranose



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	74170	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION; Per particle estimation	Depositor
Microscope	FEI TITAN	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	32	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.082	Depositor
Minimum map value	-0.024	Depositor
Average map value	0.002	Depositor
Map value standard deviation	0.008	Depositor
Recommended contour level	0.02	Depositor
Map size (Å)	327.0, 327.0, 327.0	wwPDB
Map dimensions	300, 300, 300	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.09, 1.09, 1.09	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: IDS, SGN

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	A1	0.44	0/1597	0.57	0/2175
1	A2	0.76	0/1597	0.63	1/2175 (0.0%)
1	A3	0.76	0/1597	0.63	1/2175 (0.0%)
1	A4	0.76	0/1597	0.63	1/2175 (0.0%)
1	A5	0.76	0/1597	0.63	1/2175 (0.0%)
1	A6	0.76	0/1597	0.63	1/2175 (0.0%)
1	A7	0.76	0/1597	0.63	1/2175 (0.0%)
1	A8	0.76	0/1597	0.63	1/2175 (0.0%)
1	A9	0.76	0/1597	0.63	1/2175 (0.0%)
1	AA	0.76	0/1597	0.63	1/2175 (0.0%)
1	AB	0.76	0/1597	0.63	1/2175 (0.0%)
1	AC	0.76	0/1597	0.63	1/2175 (0.0%)
1	AD	0.76	0/1597	0.63	1/2175 (0.0%)
1	AE	0.76	0/1597	0.63	1/2175 (0.0%)
1	AF	0.76	0/1597	0.63	1/2175 (0.0%)
1	AG	0.76	0/1597	0.63	1/2175 (0.0%)
1	AH	0.76	0/1597	0.63	1/2175 (0.0%)
1	AI	0.76	0/1597	0.63	1/2175 (0.0%)
1	AJ	0.76	0/1597	0.63	1/2175 (0.0%)
1	AK	0.76	0/1597	0.63	1/2175 (0.0%)
1	AL	0.76	0/1597	0.63	1/2175 (0.0%)
1	AM	0.76	0/1597	0.63	1/2175 (0.0%)
1	AN	0.76	0/1597	0.63	1/2175 (0.0%)
1	AO	0.76	0/1597	0.63	1/2175 (0.0%)
1	AP	0.76	0/1597	0.63	1/2175 (0.0%)
1	AQ	0.76	0/1597	0.63	1/2175 (0.0%)
1	AR	0.76	0/1597	0.63	1/2175 (0.0%)
1	AS	0.76	0/1597	0.63	1/2175 (0.0%)
1	AT	0.76	0/1597	0.63	1/2175 (0.0%)
1	AU	0.76	0/1597	0.63	1/2175 (0.0%)
1	AV	0.76	0/1597	0.63	1/2175 (0.0%)
1	AW	0.76	0/1597	0.63	1/2175 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	AX	0.76	0/1597	0.63	1/2175 (0.0%)
1	AY	0.76	0/1597	0.63	1/2175 (0.0%)
1	AZ	0.76	0/1597	0.63	1/2175 (0.0%)
1	Aa	0.76	0/1597	0.63	1/2175 (0.0%)
1	Ab	0.76	0/1597	0.63	1/2175 (0.0%)
1	Ac	0.76	0/1597	0.63	1/2175 (0.0%)
1	Ad	0.76	0/1597	0.63	1/2175 (0.0%)
1	Ae	0.76	0/1597	0.63	1/2175 (0.0%)
1	Af	0.76	0/1597	0.63	1/2175 (0.0%)
1	Ag	0.76	0/1597	0.63	1/2175 (0.0%)
1	Ah	0.76	0/1597	0.63	1/2175 (0.0%)
1	Ai	0.76	0/1597	0.63	1/2175 (0.0%)
1	Aj	0.76	0/1597	0.63	1/2175 (0.0%)
1	Ak	0.76	0/1597	0.63	1/2175 (0.0%)
1	Al	0.76	0/1597	0.63	1/2175 (0.0%)
1	Am	0.76	0/1597	0.63	1/2175 (0.0%)
1	An	0.76	0/1597	0.63	1/2175 (0.0%)
1	Ao	0.76	0/1597	0.63	1/2175 (0.0%)
1	Ap	0.76	0/1597	0.63	1/2175 (0.0%)
1	Aq	0.76	0/1597	0.63	1/2175 (0.0%)
1	Ar	0.76	0/1597	0.63	1/2175 (0.0%)
1	As	0.76	0/1597	0.63	1/2175 (0.0%)
1	At	0.76	0/1597	0.63	1/2175 (0.0%)
1	Au	0.76	0/1597	0.63	1/2175 (0.0%)
1	Av	0.76	0/1597	0.63	1/2175 (0.0%)
1	Aw	0.76	0/1597	0.63	1/2175 (0.0%)
1	Ax	0.76	0/1597	0.63	1/2175 (0.0%)
1	Ay	0.76	0/1597	0.63	1/2175 (0.0%)
All	All	0.76	0/95820	0.63	59/130500 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	AN	0	1

There are no bond length outliers.

The worst 5 of 59 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AD	159	ARG	NE-CZ-NH2	6.28	123.44	120.30
1	AI	159	ARG	NE-CZ-NH2	6.26	123.43	120.30
1	AV	159	ARG	NE-CZ-NH2	6.22	123.41	120.30
1	A3	159	ARG	NE-CZ-NH2	6.15	123.38	120.30
1	Ak	159	ARG	NE-CZ-NH2	6.14	123.37	120.30

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	AN	186	ARG	Sidechain

5.2 Too-close contacts [i](#)

Due to software issues we are unable to calculate clashes - this section is therefore empty.

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	A1	187/233 (80%)	177 (95%)	10 (5%)	0	100	100
1	A2	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	A3	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	A4	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	A5	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	A6	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	A7	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	A8	187/233 (80%)	180 (96%)	7 (4%)	0	100	100
1	A9	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	AA	187/233 (80%)	181 (97%)	6 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	AB	187/233 (80%)	180 (96%)	7 (4%)	0	100	100
1	AC	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	AD	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	AE	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	AF	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	AG	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	AH	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	AI	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	AJ	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	AK	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	AL	187/233 (80%)	180 (96%)	7 (4%)	0	100	100
1	AM	187/233 (80%)	180 (96%)	7 (4%)	0	100	100
1	AN	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	AO	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	AP	187/233 (80%)	180 (96%)	7 (4%)	0	100	100
1	AQ	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	AR	187/233 (80%)	180 (96%)	7 (4%)	0	100	100
1	AS	187/233 (80%)	180 (96%)	7 (4%)	0	100	100
1	AT	187/233 (80%)	179 (96%)	8 (4%)	0	100	100
1	AU	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	AV	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	AW	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	AX	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	AY	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	AZ	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	Aa	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	Ab	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	Ac	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	Ad	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	Ae	187/233 (80%)	180 (96%)	7 (4%)	0	100	100
1	Af	187/233 (80%)	180 (96%)	7 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Ag	187/233 (80%)	180 (96%)	7 (4%)	0	100	100
1	Ah	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	Ai	187/233 (80%)	180 (96%)	7 (4%)	0	100	100
1	Aj	187/233 (80%)	180 (96%)	7 (4%)	0	100	100
1	Ak	187/233 (80%)	180 (96%)	7 (4%)	0	100	100
1	Al	187/233 (80%)	180 (96%)	7 (4%)	0	100	100
1	Am	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	An	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	Ao	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	Ap	187/233 (80%)	180 (96%)	7 (4%)	0	100	100
1	Aq	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	Ar	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	As	187/233 (80%)	180 (96%)	7 (4%)	0	100	100
1	At	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	Au	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	Av	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	Aw	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	Ax	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
1	Ay	187/233 (80%)	181 (97%)	6 (3%)	0	100	100
All	All	11220/13980 (80%)	10838 (97%)	382 (3%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A1	172/215 (80%)	171 (99%)	1 (1%)	86	94
1	A2	172/215 (80%)	165 (96%)	7 (4%)	30	63

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A3	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	A4	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	A5	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	A6	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	A7	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	A8	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	A9	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	AA	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	AB	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	AC	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	AD	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	AE	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	AF	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	AG	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	AH	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	AI	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	AJ	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	AK	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	AL	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	AM	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	AN	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	AO	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	AP	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	AQ	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	AR	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	AS	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	AT	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	AU	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	AV	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	AW	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	AX	172/215 (80%)	165 (96%)	7 (4%)	30	63

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	AY	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	AZ	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	Aa	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	Ab	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	Ac	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	Ad	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	Ae	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	Af	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	Ag	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	Ah	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	Ai	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	Aj	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	Ak	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	Al	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	Am	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	An	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	Ao	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	Ap	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	Aq	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	Ar	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	As	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	At	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	Au	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	Av	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	Aw	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	Ax	172/215 (80%)	165 (96%)	7 (4%)	30	63
1	Ay	172/215 (80%)	165 (96%)	7 (4%)	30	63
All	All	10320/12900 (80%)	9906 (96%)	414 (4%)	35	64

5 of 414 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	AY	231	LEU

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Mol	Chain	Res	Type
1	Ag	186	ARG
1	Aw	231	LEU
1	AZ	231	LEU
1	Ad	64	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 77 such sidechains are listed below:

Mol	Chain	Res	Type
1	Aj	212	ASN
1	Au	212	ASN
1	Al	212	ASN
1	Ap	212	ASN
1	Ax	212	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](#)

5 monosaccharides 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	SGN	A	1	2	19,20,20	3.68	6 (31%)	24,31,31	2.56	6 (25%)
2	IDS	A	2	2	16,16,17	1.25	1 (6%)	17,24,26	0.94	0
2	SGN	A	3	2	18,19,20	3.72	5 (27%)	22,29,31	1.50	4 (18%)
2	IDS	A	4	2	16,16,17	1.28	1 (6%)	17,24,26	1.02	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	SGN	A	5	2	18,19,20	3.74	5 (27%)	22,29,31	1.78	5 (22%)

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	SGN	A	1	2	-	5/11/31/31	0/1/1/1
2	IDS	A	2	2	-	2/9/26/29	0/1/1/1
2	SGN	A	3	2	-	4/11/28/31	0/1/1/1
2	IDS	A	4	2	-	5/9/26/29	0/1/1/1
2	SGN	A	5	2	-	5/11/28/31	0/1/1/1

The worst 5 of 18 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	3	SGN	S1-N2	14.51	1.79	1.59
2	A	5	SGN	S1-N2	14.51	1.79	1.59
2	A	1	SGN	S1-N2	14.44	1.79	1.59
2	A	1	SGN	O1S-S1	3.25	1.45	1.42
2	A	5	SGN	O2S-S1	3.02	1.45	1.42

The worst 5 of 15 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	1	SGN	O1-C1-C2	-10.28	87.87	109.22
2	A	5	SGN	O1S-S1-O2S	-4.06	110.57	120.16
2	A	5	SGN	O2S-S1-N2	-3.13	103.16	108.87
2	A	1	SGN	O2S-S1-N2	-3.06	103.28	108.87
2	A	5	SGN	O1S-S1-N2	-3.01	103.38	108.87

There are no chirality outliers.

5 of 21 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	1	SGN	C4-C5-C6-O6
2	A	1	SGN	O5-C5-C6-O6
2	A	1	SGN	C2-N2-S1-O2S
2	A	1	SGN	C2-N2-S1-O3S

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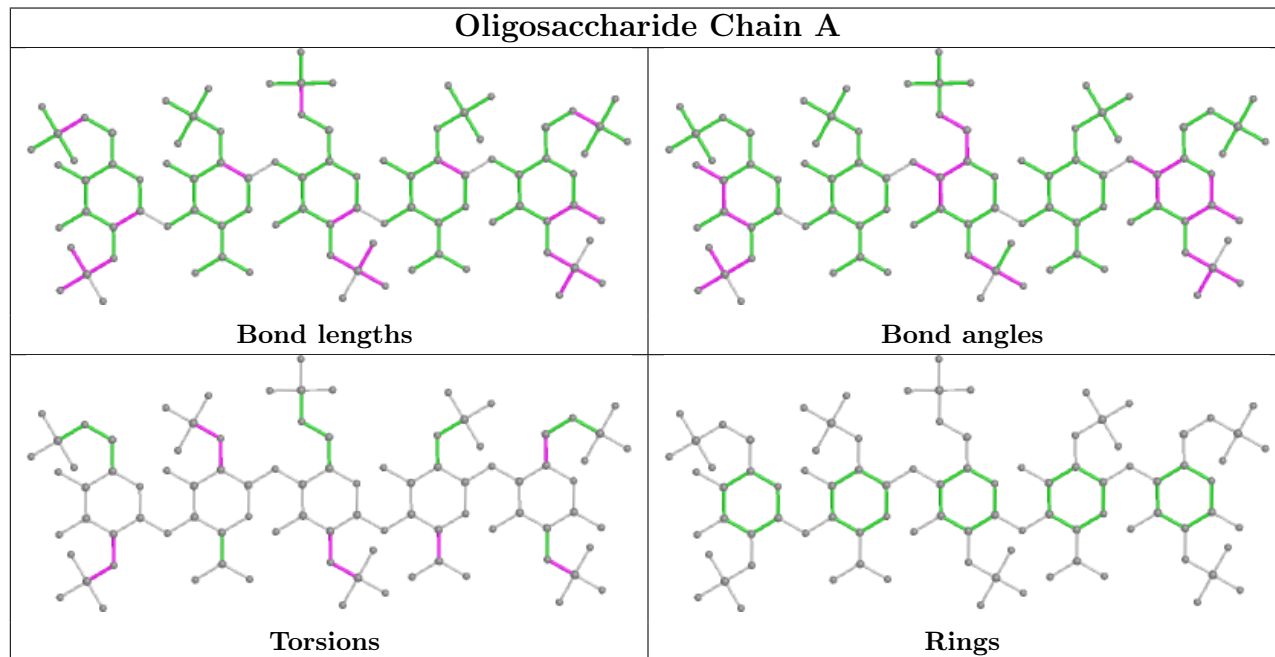
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Mol	Chain	Res	Type	Atoms
2	A	3	SGN	C2-N2-S1-O3S

There are no ring outliers.

No monomer is involved in short contacts.

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for oligosaccharide.



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.

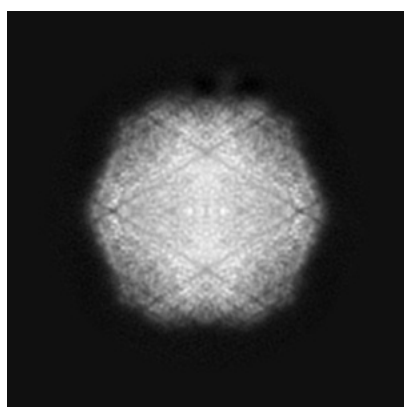
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-8972. These allow visual inspection of the internal detail of the map and identification of artifacts.

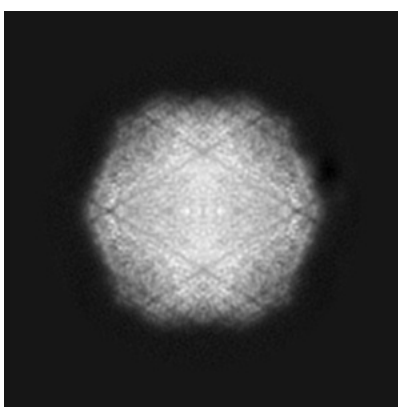
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

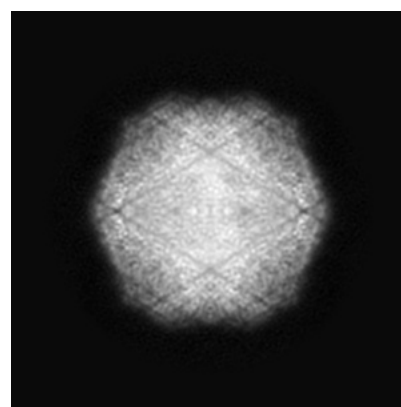
6.1.1 Primary map



X



Y

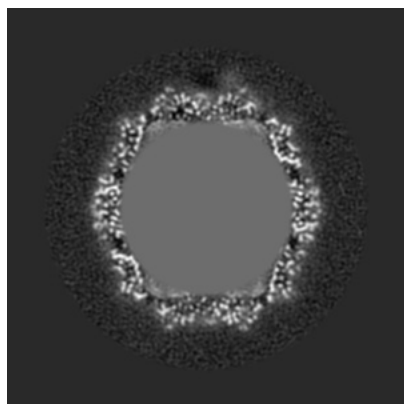


Z

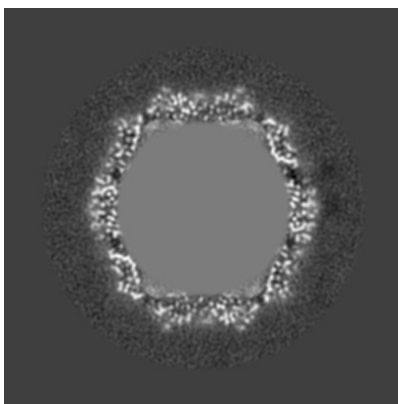
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

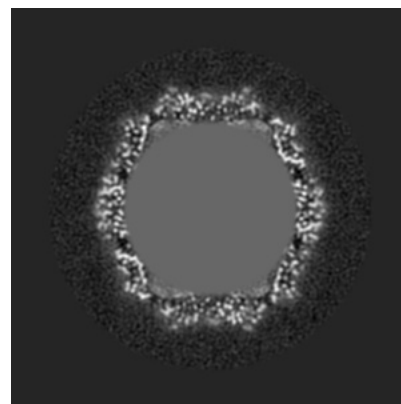
6.2.1 Primary map



X Index: 150



Y Index: 150

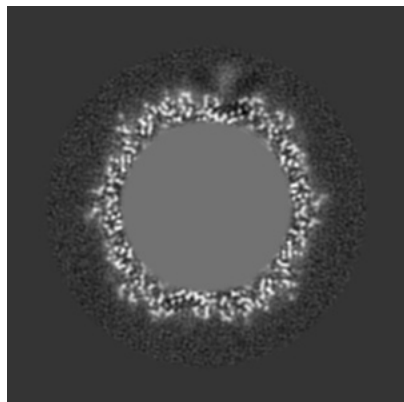


Z Index: 150

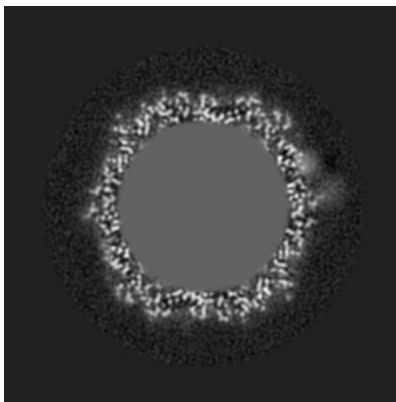
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [\(i\)](#)

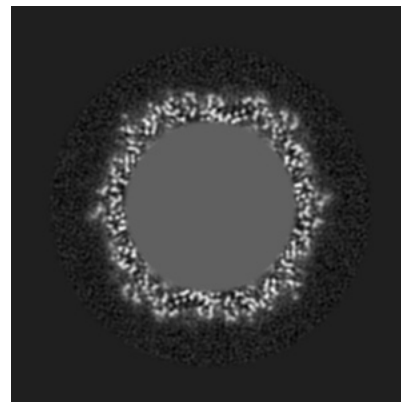
6.3.1 Primary map



X Index: 161



Y Index: 161

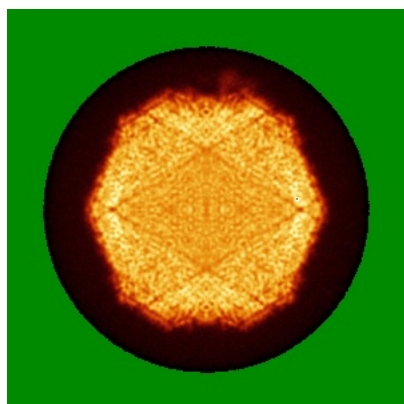


Z Index: 161

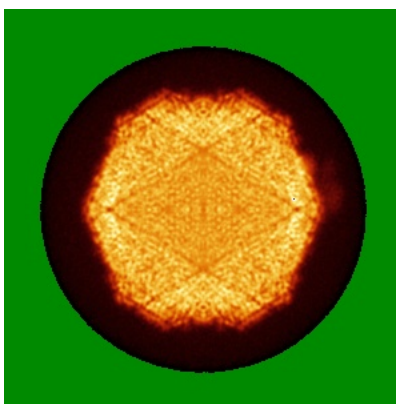
The images above show the largest variance slices of the map in three orthogonal directions.

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

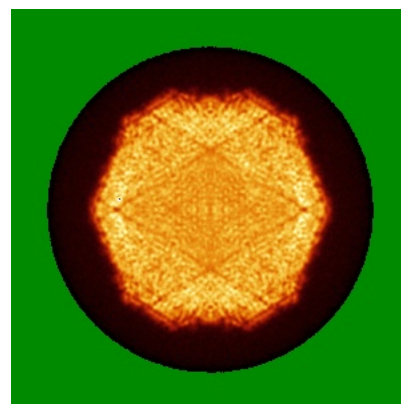
6.4.1 Primary map



X



Y

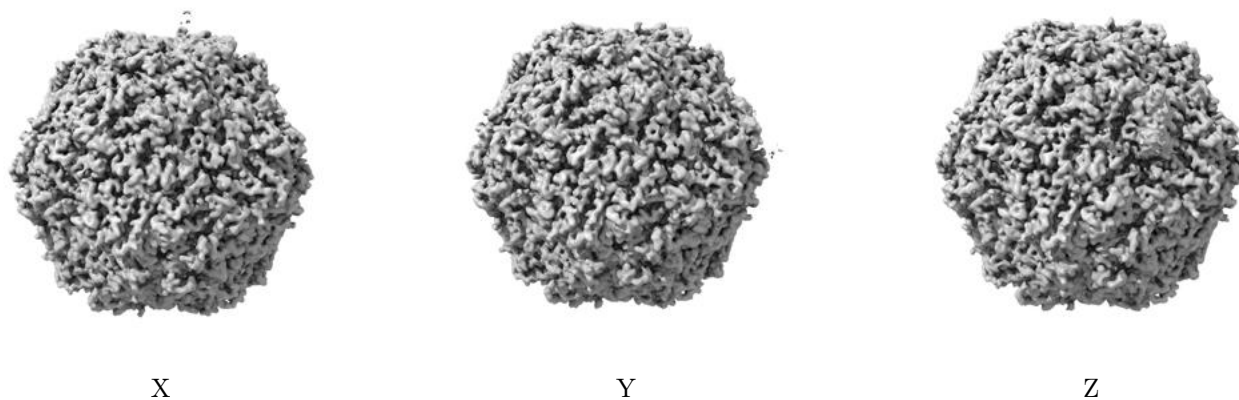


Z

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

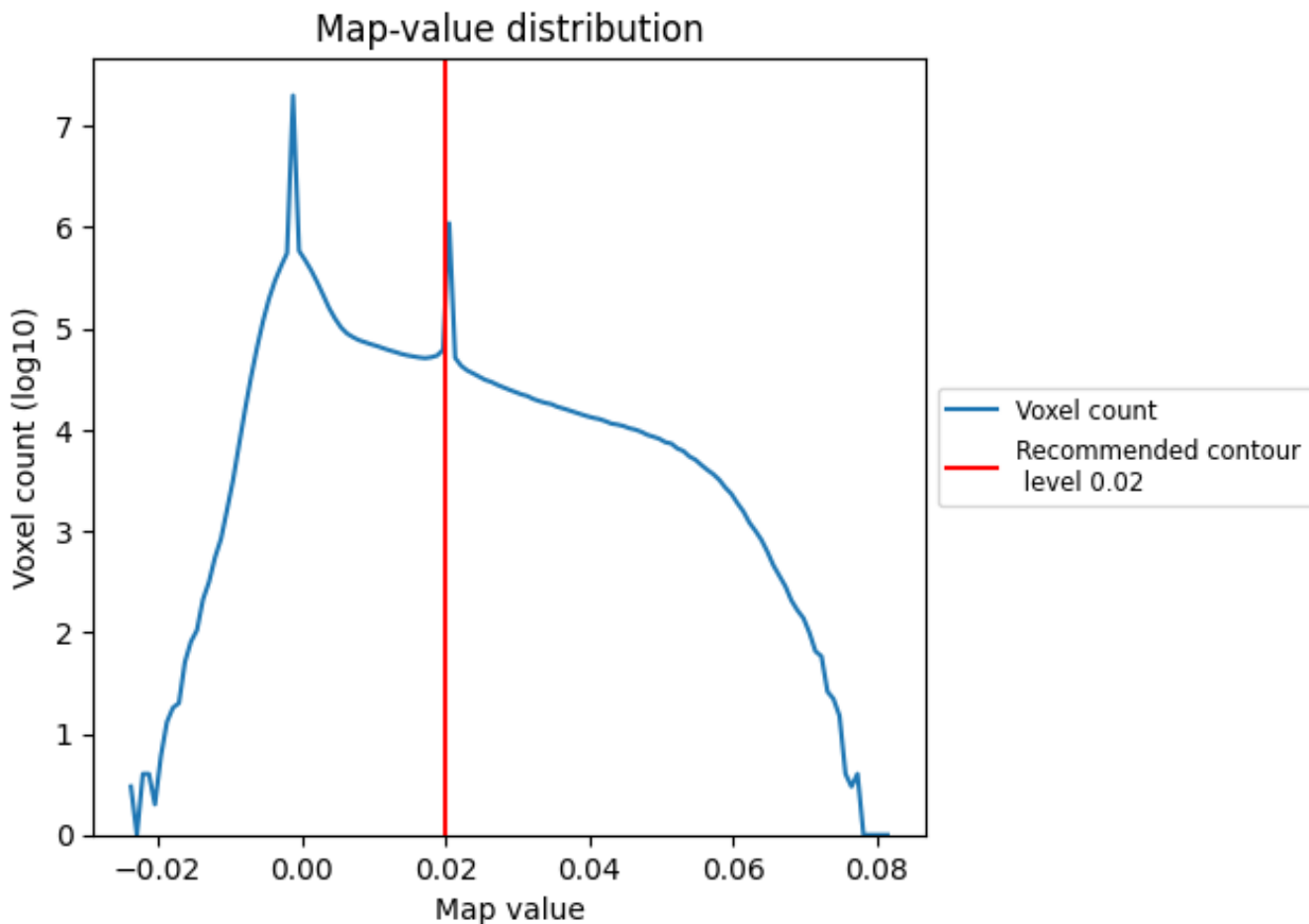
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

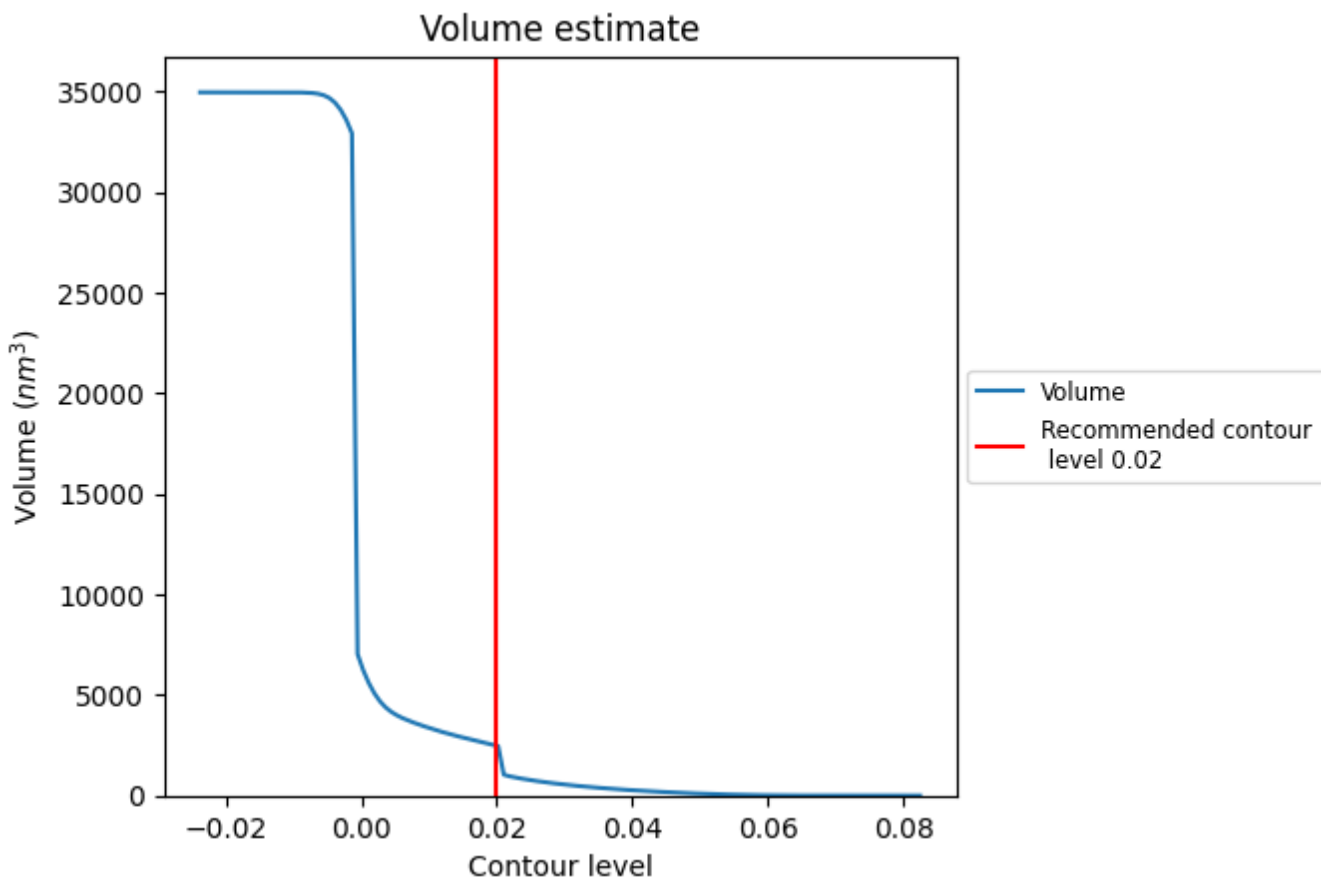
This section contains the results of statistical analysis of the map.

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.

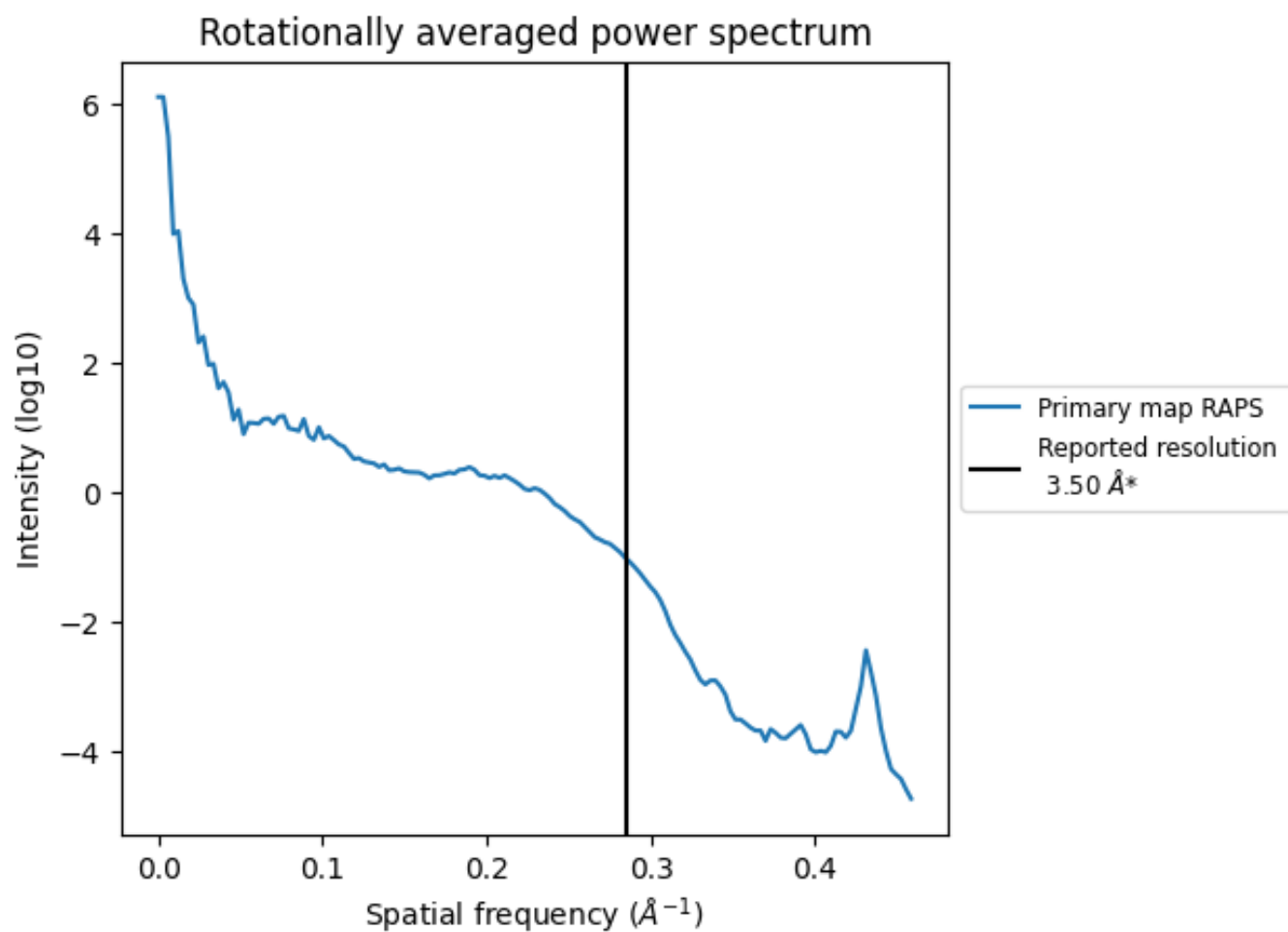
7.2 Volume estimate [\(i\)](#)



The volume at the recommended contour level is 2475 nm^3 ; this corresponds to an approximate mass of 2235 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 0.286 Å⁻¹

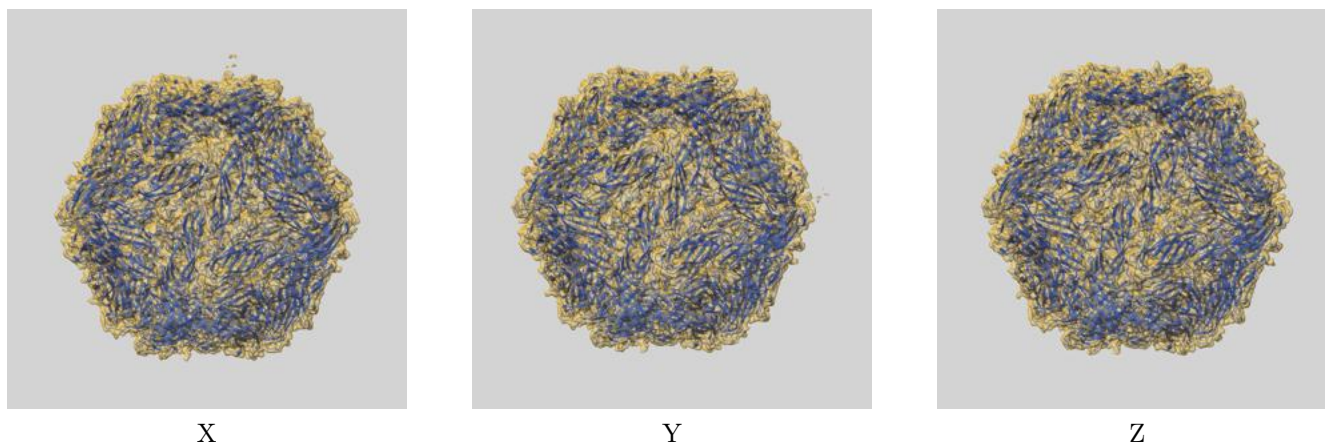
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

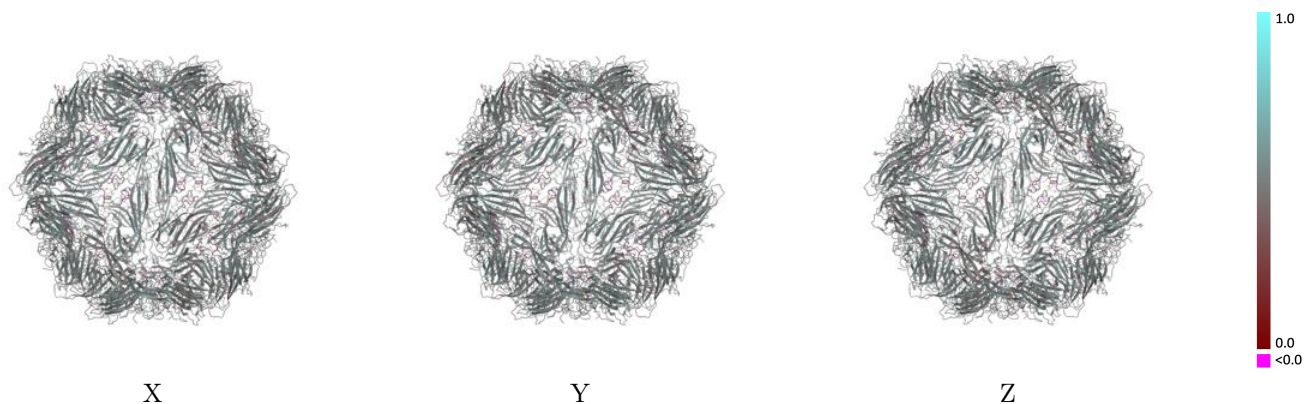
This section contains information regarding the fit between EMDB map EMD-8972 and PDB model 6E30. Per-residue inclusion information can be found in section 3 on page 10.

9.1 Map-model overlay [i](#)



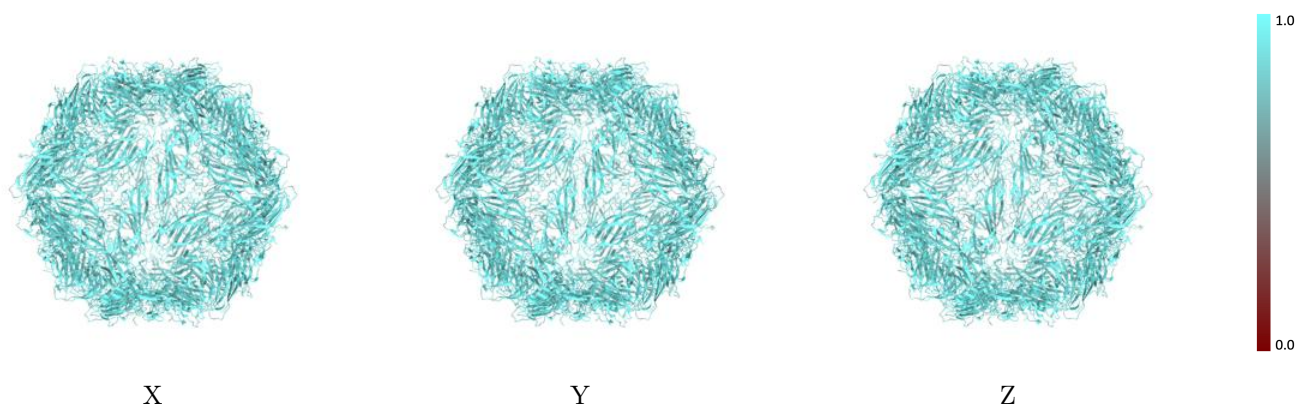
The images above show the 3D surface view of the map at the recommended contour level 0.02 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



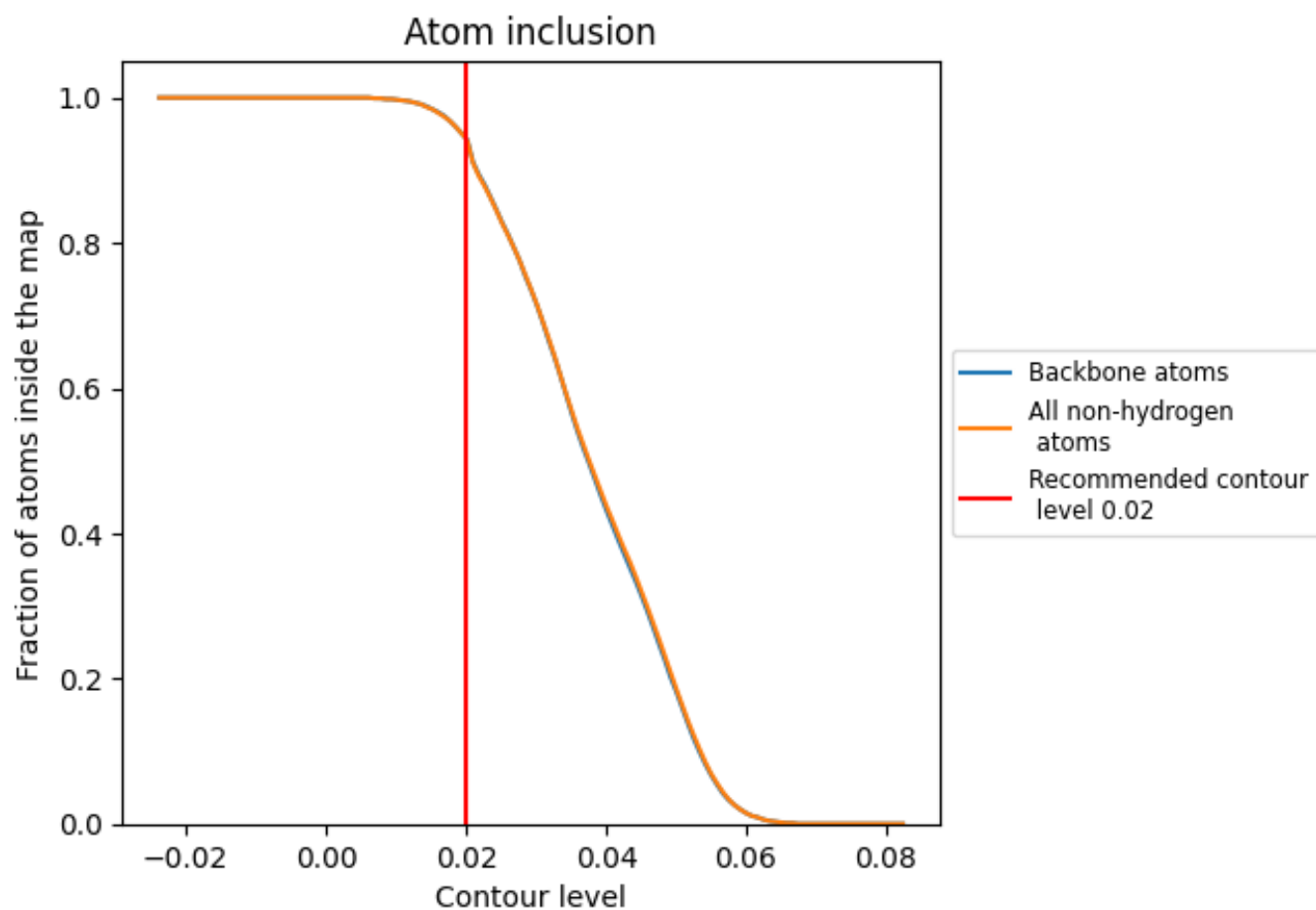
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.02).







































































9.4 Atom inclusion [i](#)



At the recommended contour level, 94% of all backbone atoms, 94% 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 (0.02) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.9440	 0.4800
A	 0.8000	 0.0520
A1	 0.9450	 0.4870
A2	 0.9360	 0.4630
A3	 0.9540	 0.4830
A4	 0.9540	 0.4880
A5	 0.9350	 0.4860
A6	 0.9320	 0.4700
A7	 0.9400	 0.4720
A8	 0.9540	 0.4770
A9	 0.9530	 0.4900
AA	 0.9360	 0.4860
AB	 0.9510	 0.4900
AC	 0.9400	 0.4700
AD	 0.9540	 0.4840
AE	 0.9460	 0.4790
AF	 0.9360	 0.4590
AG	 0.9450	 0.4900
AH	 0.9480	 0.4780
AI	 0.9460	 0.4730
AJ	 0.9380	 0.4710
AK	 0.9520	 0.4890
AL	 0.9510	 0.4890
AM	 0.9540	 0.4800
AN	 0.9400	 0.4810
AO	 0.9540	 0.4890
AP	 0.9460	 0.4860
AQ	 0.9520	 0.4910
AR	 0.9380	 0.4680
AS	 0.9520	 0.4820
AT	 0.9450	 0.4670
AU	 0.9470	 0.4630
AV	 0.9510	 0.4880
AW	 0.9450	 0.4750
AX	 0.9600	 0.4900



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Chain	Atom inclusion	Q-score
AY	 0.9420	 0.4720
AZ	 0.9540	 0.4890
Aa	 0.9500	 0.4910
Ab	 0.9480	 0.4760
Ac	 0.9480	 0.4880
Ad	 0.9410	 0.4670
Ae	 0.9380	 0.4670
Af	 0.9500	 0.4930
Ag	 0.9400	 0.4640
Ah	 0.9480	 0.4840
Ai	 0.9500	 0.4860
Aj	 0.9570	 0.4880
Ak	 0.9570	 0.4920
Al	 0.9570	 0.4890
Am	 0.9550	 0.4890
An	 0.9410	 0.4680
Ao	 0.9560	 0.4920
Ap	 0.9470	 0.4920
Aq	 0.9530	 0.4890
Ar	 0.9520	 0.4870
As	 0.9490	 0.4790
At	 0.9540	 0.4910
Au	 0.9500	 0.4900
Av	 0.9540	 0.4780
Aw	 0.9540	 0.4880
Ax	 0.9540	 0.4890
Ay	 0.9370	 0.4390