



Full wwPDB EM Validation Report ⓘ

Jun 9, 2026 – 03:45 PM EDT

PDB ID : 9ZCA / pdb_00009zca
EMDB ID : EMD-74032
Title : 5-methyl-cytidine twist corrected RNA origami 6-helix bundle type-2 dimer
Authors : McRae, E.K.S.; Yadav, D.K.
Deposited on : 2025-11-22
Resolution : 11.50 Å(reported)
Based on initial model : 9ZC9

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

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev132
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDb archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

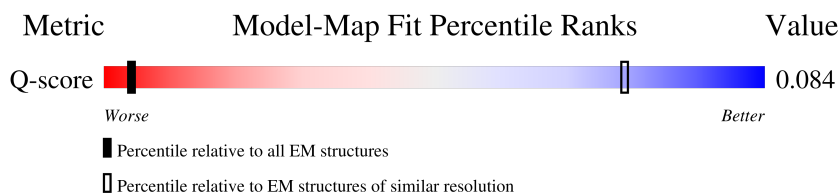
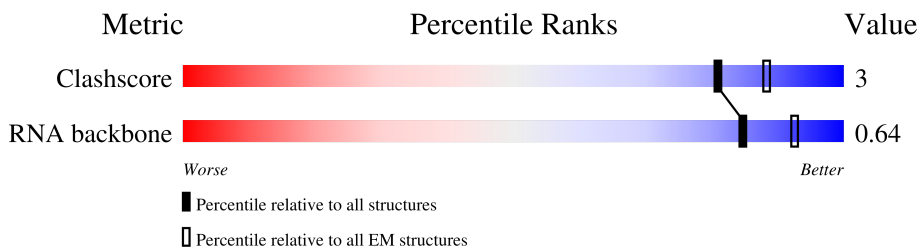
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 11.50 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)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
RNA backbone	8273	3508	-
Q-score	-	25397	117 (11.00 - 12.00)

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

Mol	Chain	Length	Quality of chain
1	A	730	 81% 17% •
1	B	730	 82% 16% •

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 31479 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.

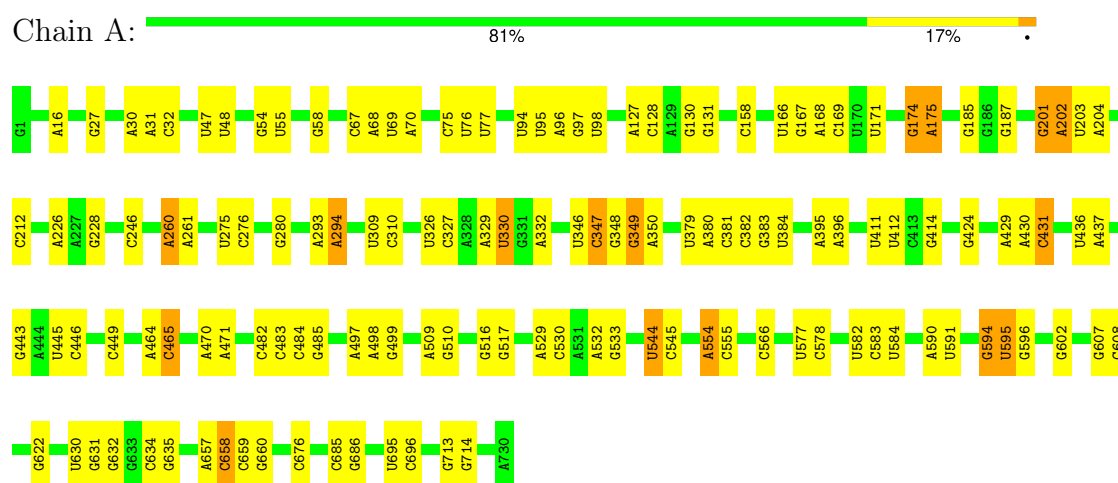
- Molecule 1 is a RNA chain called 5-methyl-cytidine twist corrected RNA origami 6-helix bundle.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	730	Total	C	N	O	P	0	0
			15740	7123	2749	5138	730		
1	B	730	Total	C	N	O	P	0	0
			15739	7123	2749	5137	730		

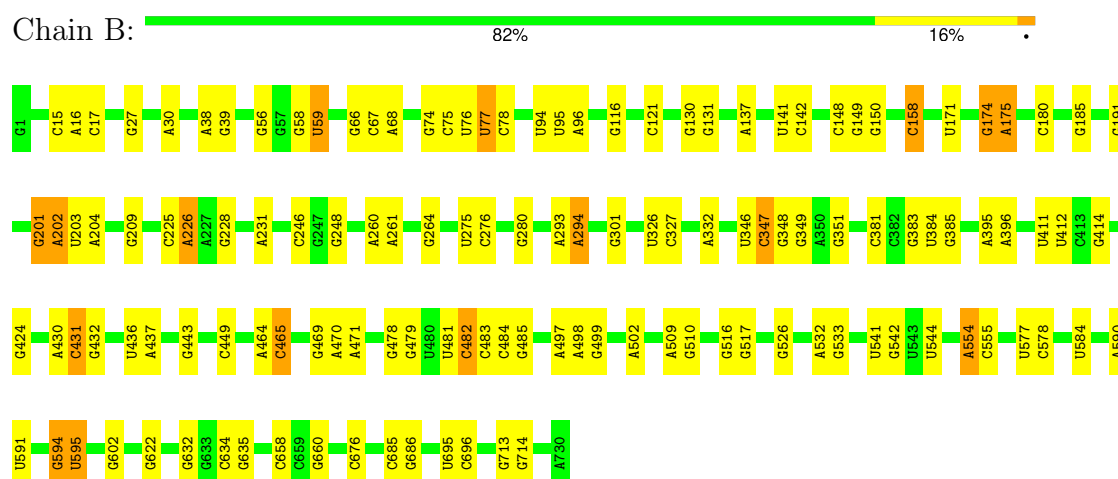
3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

- Molecule 1: 5-methyl-cytidine twist corrected RNA origami 6-helix bundle



- Molecule 1: 5-methyl-cytidine twist corrected RNA origami 6-helix bundle



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C2	Depositor
Number of particles used	11203	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION; Patch CTF	Depositor
Microscope	TFS GLACIOS	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	40	Depositor
Minimum defocus (nm)	700	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	130000	Depositor
Image detector	FEI FALCON IV (4k x 4k)	Depositor
Maximum map value	5.825	Depositor
Minimum map value	-1.165	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.179	Depositor
Recommended contour level	0.7	Depositor
Map size ($\text{\AA}$)	662.4, 662.4, 662.4	wwPDB
Map dimensions	180, 180, 180	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	3.68, 3.68, 3.68	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: 5MC

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	0.09	0/13312	0.23	0/20804
1	B	0.11	0/13312	0.25	0/20804
All	All	0.10	0/26624	0.24	0/41608

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	15740	0	8224	66	0
1	B	15739	0	8222	58	0
All	All	31479	0	16446	124	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 3.

All (124) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:261:A:H61	1:B:465:5MC:HM53	1.41	0.83
1:A:332:A:H62	1:A:396:A:H62	1.44	0.66
1:A:201:G:C8	1:A:202:A:C8	2.85	0.65
1:B:332:A:H62	1:B:396:A:H62	1.44	0.63
1:B:201:G:C8	1:B:202:A:C8	2.86	0.62
1:A:67:5MC:H2'	1:A:68:A:H8	1.71	0.56
1:A:484:5MC:H2'	1:A:485:G:H8	1.71	0.56
1:A:529:A:H2'	1:A:530:5MC:C6	2.42	0.55
1:A:294:A:C5	1:A:431:5MC:HM51	2.44	0.52
1:A:484:5MC:H2'	1:A:485:G:C8	2.45	0.52
1:B:526:G:O6	1:B:544:U:O4	2.27	0.52
1:B:294:A:C5	1:B:431:5MC:HM51	2.45	0.52
1:B:202:A:C4	1:B:203:U:C5	2.99	0.51
1:A:202:A:C4	1:A:203:U:C5	3.00	0.50
1:A:326:U:H2'	1:A:327:5MC:C6	2.47	0.50
1:B:58:G:HO2'	1:B:59:U:H6	1.60	0.49
1:A:95:U:O2	1:A:96:A:C8	2.66	0.49
1:B:95:U:O2	1:B:96:A:C8	2.66	0.48
1:B:594:G:H1'	1:B:595:U:O5'	2.14	0.48
1:B:594:G:H1'	1:B:595:U:P	2.54	0.47
1:A:31:A:O2'	1:A:32:5MC:HM52	2.14	0.47
1:A:594:G:H1'	1:A:595:U:P	2.55	0.47
1:A:174:G:N3	1:A:174:G:H2'	2.30	0.47
1:B:67:5MC:H2'	1:B:68:A:H8	1.79	0.47
1:B:174:G:H1'	1:B:175:A:O5'	2.15	0.47
1:B:137:A:H4'	1:B:180:5MC:H4'	1.96	0.47
1:B:203:U:C2	1:B:204:A:N7	2.83	0.47
1:B:554:A:H2'	1:B:555:5MC:C6	2.49	0.47
1:A:203:U:C2	1:A:204:A:N7	2.82	0.47
1:B:174:G:H2'	1:B:174:G:N3	2.30	0.46
1:B:201:G:HO2'	1:B:202:A:H8	1.58	0.46
1:A:594:G:H1'	1:A:595:U:O5'	2.15	0.46
1:A:329:A:O2'	1:A:330:U:P	2.74	0.46
1:B:383:G:C6	1:B:660:G:C6	3.03	0.46
1:A:659:5MC:H2'	1:A:660:G:H8	1.80	0.46
1:A:584:U:C2	1:A:602:G:N2	2.84	0.46
1:B:541:U:O2	1:B:542:G:C8	2.68	0.46
1:A:187:G:H1	1:A:212:5MC:HN41	1.64	0.45
1:A:275:U:H2'	1:A:276:5MC:C6	2.50	0.45
1:A:554:A:H2'	1:A:555:5MC:C6	2.51	0.45
1:A:695:U:H2'	1:A:696:5MC:C6	2.52	0.45
1:A:346:U:H2'	1:A:347:5MC:C6	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:346:U:H2'	1:B:347:5MC:C6	2.51	0.45
1:B:584:U:C2	1:B:602:G:N2	2.85	0.45
1:A:174:G:H1'	1:A:175:A:O5'	2.17	0.45
1:B:326:U:H2'	1:B:327:5MC:C6	2.52	0.44
1:A:424:G:C6	1:A:443:G:C6	3.05	0.44
1:A:590:A:H2'	1:A:591:U:O4'	2.18	0.44
1:A:260:A:C5	1:A:465:5MC:HM51	2.53	0.44
1:B:424:G:C6	1:B:443:G:C6	3.05	0.44
1:A:509:A:C2	1:A:510:G:C8	3.06	0.44
1:A:201:G:HO2'	1:A:202:A:C5'	2.29	0.44
1:A:429:A:H61	1:A:437:A:H61	1.66	0.44
1:A:54:G:H2'	1:A:55:U:O4'	2.18	0.43
1:B:158:5MC:HN41	1:B:248:G:H1	1.66	0.43
1:A:554:A:H2'	1:A:555:5MC:H6	1.83	0.43
1:B:15:5MC:H2'	1:B:77:U:C2	2.54	0.43
1:A:55:U:H4'	1:A:97:G:O2'	2.19	0.43
1:B:94:U:H2'	1:B:94:U:O2	2.18	0.43
1:B:275:U:H2'	1:B:276:5MC:C6	2.53	0.43
1:A:261:A:H61	1:A:465:5MC:CM5	2.31	0.43
1:B:554:A:H2'	1:B:555:5MC:H6	1.84	0.43
1:A:713:G:C2	1:A:714:G:C8	3.07	0.43
1:B:94:U:C2	1:B:95:U:C5	3.07	0.43
1:B:174:G:H4'	1:B:175:A:OP1	2.18	0.43
1:B:203:U:N3	1:B:204:A:N7	2.66	0.43
1:B:264:G:C6	1:B:469:G:C6	3.06	0.43
1:B:148:5MC:H2'	1:B:149:G:H8	1.83	0.42
1:A:544:U:H2'	1:A:545:5MC:C6	2.54	0.42
1:B:470:A:C2	1:B:471:A:C8	3.06	0.42
1:B:509:A:C2	1:B:510:G:C8	3.06	0.42
1:A:94:U:C2	1:A:95:U:C5	3.08	0.42
1:A:203:U:N3	1:A:204:A:N7	2.67	0.42
1:B:594:G:O2'	1:B:595:U:H6	2.03	0.42
1:A:383:G:H2'	1:A:384:U:H6	1.84	0.42
1:A:436:U:O2	1:A:437:A:C8	2.72	0.42
1:B:15:5MC:HN41	1:B:351:G:H1	1.67	0.42
1:B:384:U:H2'	1:B:385:G:H8	1.84	0.42
1:B:713:G:C2	1:B:714:G:C8	3.08	0.42
1:A:383:G:C6	1:A:660:G:C6	3.07	0.42
1:A:445:U:H2'	1:A:446:5MC:C6	2.54	0.42
1:A:594:G:C4	1:A:595:U:C6	3.08	0.42
1:B:695:U:H2'	1:B:696:5MC:C6	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:349:G:C2	1:A:350:A:C8	3.08	0.42
1:A:379:U:H2'	1:A:380:A:O4'	2.20	0.42
1:A:607:G:H5''	1:A:608:5MC:HM52	2.02	0.42
1:B:149:G:C2	1:B:150:G:C8	3.08	0.42
1:B:56:G:C6	1:B:74:G:O6	2.73	0.42
1:A:595:U:C2	1:A:596:G:C8	3.08	0.41
1:B:225:5MC:H5''	1:B:226:A:OP2	2.20	0.41
1:A:69:U:C2	1:A:70:A:N7	2.88	0.41
1:A:94:U:O2	1:A:95:U:C6	2.74	0.41
1:A:97:G:H2'	1:A:98:U:C6	2.55	0.41
1:A:470:A:C2	1:A:471:A:C8	3.08	0.41
1:A:436:U:C2	1:A:437:A:C8	3.08	0.41
1:A:47:U:H2'	1:A:48:U:H6	1.85	0.41
1:B:94:U:O2	1:B:95:U:C6	2.73	0.41
1:B:436:U:C2	1:B:437:A:C8	3.08	0.41
1:A:309:U:H2'	1:A:310:5MC:C6	2.55	0.41
1:A:127:A:H2'	1:A:128:5MC:C6	2.56	0.41
1:A:174:G:C4'	1:A:175:A:OP1	2.69	0.41
1:A:203:U:O2	1:A:204:A:C8	2.74	0.41
1:A:630:U:H2'	1:A:631:G:O4'	2.21	0.41
1:B:141:U:H2'	1:B:142:5MC:C6	2.55	0.41
1:A:202:A:H2'	1:A:203:U:H6	1.86	0.41
1:B:116:G:H1	1:B:121:5MC:HN41	1.68	0.41
1:A:166:U:H2'	1:A:167:G:H8	1.87	0.40
1:A:657:A:H2'	1:A:658:5MC:C6	2.56	0.40
1:B:191:G:C6	1:B:209:G:C6	3.08	0.40
1:B:301:G:C6	1:B:432:G:C6	3.09	0.40
1:B:478:G:C2	1:B:479:G:C8	3.09	0.40
1:B:526:G:O6	1:B:544:U:C4	2.74	0.40
1:A:30:A:N9	1:A:30:A:OP1	2.55	0.40
1:B:481:U:H2'	1:B:482:5MC:C6	2.57	0.40
1:A:381:5MC:H2'	1:A:382:5MC:C6	2.57	0.40
1:A:411:U:H2'	1:A:412:U:C6	2.57	0.40
1:B:231:A:N6	1:B:502:A:N6	2.70	0.40
1:B:411:U:H2'	1:B:412:U:C6	2.57	0.40
1:B:484:5MC:H2'	1:B:485:G:H8	1.86	0.40
1:B:590:A:H2'	1:B:591:U:O4'	2.21	0.40
1:A:168:A:H2'	1:A:169:5MC:C6	2.57	0.40
1:A:582:U:H2'	1:A:583:5MC:C6	2.57	0.40
1:B:30:A:C4	1:B:30:A:OP1	2.75	0.40
1:B:38:A:H2'	1:B:39:G:O4'	2.21	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

There are no protein molecules in this entry.

5.3.2 Protein sidechains [i](#)

There are no protein molecules in this entry.

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	A	729/730 (99%)	54 (7%)	7 (0%)
1	B	729/730 (99%)	53 (7%)	6 (0%)
All	All	1458/1460 (99%)	107 (7%)	13 (0%)

All (107) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	A	16	A
1	A	27	G
1	A	58	G
1	A	75	5MC
1	A	76	U
1	A	77	U
1	A	131	G
1	A	158	5MC
1	A	171	U
1	A	174	G
1	A	175	A
1	A	185	G
1	A	201	G
1	A	202	A
1	A	226	A
1	A	228	G
1	A	246	5MC
1	A	260	A
1	A	280	G
1	A	294	A

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Mol	Chain	Res	Type
1	A	330	U
1	A	347	5MC
1	A	348	G
1	A	349	G
1	A	395	A
1	A	414	G
1	A	430	A
1	A	431	5MC
1	A	449	5MC
1	A	464	A
1	A	465	5MC
1	A	482	5MC
1	A	483	5MC
1	A	497	A
1	A	498	A
1	A	499	G
1	A	516	G
1	A	517	G
1	A	532	A
1	A	533	G
1	A	544	U
1	A	554	A
1	A	566	5MC
1	A	577	U
1	A	578	5MC
1	A	594	G
1	A	595	U
1	A	622	G
1	A	632	G
1	A	635	G
1	A	658	5MC
1	A	676	5MC
1	A	685	5MC
1	A	686	G
1	B	16	A
1	B	17	5MC
1	B	27	G
1	B	59	U
1	B	66	G
1	B	76	U
1	B	77	U
1	B	131	G

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Mol	Chain	Res	Type
1	B	158	5MC
1	B	171	U
1	B	174	G
1	B	175	A
1	B	185	G
1	B	201	G
1	B	202	A
1	B	226	A
1	B	228	G
1	B	246	5MC
1	B	260	A
1	B	280	G
1	B	294	A
1	B	347	5MC
1	B	348	G
1	B	349	G
1	B	381	5MC
1	B	395	A
1	B	414	G
1	B	430	A
1	B	431	5MC
1	B	449	5MC
1	B	464	A
1	B	465	5MC
1	B	482	5MC
1	B	483	5MC
1	B	497	A
1	B	498	A
1	B	499	G
1	B	516	G
1	B	517	G
1	B	532	A
1	B	533	G
1	B	554	A
1	B	577	U
1	B	578	5MC
1	B	594	G
1	B	595	U
1	B	622	G
1	B	632	G
1	B	635	G
1	B	658	5MC

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Mol	Chain	Res	Type
1	B	676	5MC
1	B	685	5MC
1	B	686	G

All (13) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	A	76	U
1	A	130	G
1	A	174	G
1	A	201	G
1	A	293	A
1	A	594	G
1	A	634	5MC
1	B	130	G
1	B	174	G
1	B	201	G
1	B	293	A
1	B	594	G
1	B	634	5MC

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

370 non-standard protein/DNA/RNA residues 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	$\# Z > 2$
1	5MC	B	29	1	19,22,23	0.29	0	26,32,35	0.40	0
1	5MC	A	483	1	19,22,23	0.29	0	26,32,35	0.45	0
1	5MC	A	192	1	19,22,23	0.30	0	26,32,35	0.45	0
1	5MC	B	18	1	19,22,23	0.29	0	26,32,35	0.44	0
1	5MC	B	49	1	19,22,23	0.30	0	26,32,35	0.44	0
1	5MC	A	461	1	19,22,23	0.31	0	26,32,35	0.44	0
1	5MC	A	132	1	19,22,23	0.30	0	26,32,35	0.43	0
1	5MC	B	503	1	19,22,23	0.28	0	26,32,35	0.43	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	5MC	B	26	1	19,22,23	0.29	0	26,32,35	0.46	0
1	5MC	A	393	1	19,22,23	0.31	0	26,32,35	0.45	0
1	5MC	B	15	1	19,22,23	0.26	0	26,32,35	0.46	0
1	5MC	B	377	1	19,22,23	0.31	0	26,32,35	0.44	0
1	5MC	A	409	1	19,22,23	0.28	0	26,32,35	0.44	0
1	5MC	A	431	1	19,22,23	0.29	0	26,32,35	0.44	0
1	5MC	B	484	1	19,22,23	0.30	0	26,32,35	0.44	0
1	5MC	A	272	1	19,22,23	0.30	0	26,32,35	0.43	0
1	5MC	B	363	1	19,22,23	0.29	0	26,32,35	0.43	0
1	5MC	B	266	1	19,22,23	0.31	0	26,32,35	0.44	0
1	5MC	B	340	1	19,22,23	0.30	0	26,32,35	0.43	0
1	5MC	B	151	1	19,22,23	0.31	0	26,32,35	0.44	0
1	5MC	A	697	1	19,22,23	0.30	0	26,32,35	0.44	0
1	5MC	B	347	1	19,22,23	0.25	0	26,32,35	0.44	0
1	5MC	B	84	1	18,21,23	0.23	0	26,30,35	0.37	0
1	5MC	A	439	1	19,22,23	0.30	0	26,32,35	0.46	0
1	5MC	A	17	1	19,22,23	0.27	0	26,32,35	0.43	0
1	5MC	B	148	1	19,22,23	0.27	0	26,32,35	0.44	0
1	5MC	A	562	1	19,22,23	0.32	0	26,32,35	0.46	0
1	5MC	A	643	1	19,22,23	0.28	0	26,32,35	0.44	0
1	5MC	A	122	1	19,22,23	0.28	0	26,32,35	0.43	0
1	5MC	B	200	1	19,22,23	0.30	0	26,32,35	0.45	0
1	5MC	A	188	1	19,22,23	0.30	0	26,32,35	0.43	0
1	5MC	B	189	1	19,22,23	0.28	0	26,32,35	0.45	0
1	5MC	B	314	1	19,22,23	0.29	0	26,32,35	0.44	0
1	5MC	A	455	1	19,22,23	0.29	0	26,32,35	0.45	0
1	5MC	A	404	1	19,22,23	0.32	0	26,32,35	0.45	0
1	5MC	A	305	1	19,22,23	0.29	0	26,32,35	0.44	0
1	5MC	B	574	1	19,22,23	0.31	0	26,32,35	0.43	0
1	5MC	A	659	1	19,22,23	0.28	0	26,32,35	0.43	0
1	5MC	B	404	1	19,22,23	0.31	0	26,32,35	0.45	0
1	5MC	B	290	1	19,22,23	0.31	0	26,32,35	0.44	0
1	5MC	B	658	1	19,22,23	0.27	0	26,32,35	0.46	0
1	5MC	A	656	1	19,22,23	0.29	0	26,32,35	0.42	0
1	5MC	B	246	1	19,22,23	0.28	0	26,32,35	0.42	0
1	5MC	A	78	1	19,22,23	0.29	0	26,32,35	0.44	0
1	5MC	B	423	1	19,22,23	0.31	0	26,32,35	0.44	0
1	5MC	B	205	1	19,22,23	0.30	0	26,32,35	0.44	0
1	5MC	A	276	1	19,22,23	0.28	0	26,32,35	0.44	0
1	5MC	A	365	1	19,22,23	0.29	0	26,32,35	0.44	0
1	5MC	B	676	1	19,22,23	0.30	0	26,32,35	0.42	0
1	5MC	A	180	1	19,22,23	0.31	0	26,32,35	0.45	0
1	5MC	A	255	1	19,22,23	0.30	0	26,32,35	0.43	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	5MC	B	450	1	19,22,23	0.30	0	26,32,35	0.43	0
1	5MC	B	132	1	19,22,23	0.29	0	26,32,35	0.42	0
1	5MC	A	250	1	19,22,23	0.31	0	26,32,35	0.44	0
1	5MC	B	417	1	19,22,23	0.31	0	26,32,35	0.45	0
1	5MC	A	142	1	19,22,23	0.27	0	26,32,35	0.43	0
1	5MC	A	299	1	19,22,23	0.30	0	26,32,35	0.43	0
1	5MC	B	687	1	19,22,23	0.30	0	26,32,35	0.43	0
1	5MC	A	647	1	19,22,23	0.31	0	26,32,35	0.45	0
1	5MC	A	669	1	19,22,23	0.29	0	26,32,35	0.44	0
1	5MC	A	451	1	19,22,23	0.30	0	26,32,35	0.43	0
1	5MC	A	323	1	19,22,23	0.31	0	26,32,35	0.46	0
1	5MC	A	504	1	19,22,23	0.30	0	26,32,35	0.44	0
1	5MC	A	205	1	19,22,23	0.29	0	26,32,35	0.45	0
1	5MC	B	299	1	19,22,23	0.29	0	26,32,35	0.43	0
1	5MC	B	122	1	19,22,23	0.29	0	26,32,35	0.43	0
1	5MC	B	431	1	19,22,23	0.30	0	26,32,35	0.44	0
1	5MC	B	647	1	19,22,23	0.28	0	26,32,35	0.45	0
1	5MC	B	40	1	19,22,23	0.28	0	26,32,35	0.43	0
1	5MC	B	401	1	19,22,23	0.30	0	26,32,35	0.43	0
1	5MC	A	573	1	19,22,23	0.28	0	26,32,35	0.43	0
1	5MC	A	345	1	19,22,23	0.29	0	26,32,35	0.43	0
1	5MC	B	272	1	19,22,23	0.31	0	26,32,35	0.43	0
1	5MC	B	72	1	19,22,23	0.30	0	26,32,35	0.43	0
1	5MC	A	574	1	19,22,23	0.31	0	26,32,35	0.42	0
1	5MC	A	665	1	19,22,23	0.31	0	26,32,35	0.43	0
1	5MC	B	599	1	19,22,23	0.29	0	26,32,35	0.47	0
1	5MC	B	465	1	19,22,23	0.32	0	26,32,35	0.47	0
1	5MC	B	483	1	19,22,23	0.30	0	26,32,35	0.45	0
1	5MC	A	364	1	19,22,23	0.28	0	26,32,35	0.43	0
1	5MC	A	158	1	19,22,23	0.28	0	26,32,35	0.44	0
1	5MC	B	212	1	19,22,23	0.28	0	26,32,35	0.43	0
1	5MC	A	624	1	19,22,23	0.31	0	26,32,35	0.44	0
1	5MC	B	461	1	19,22,23	0.29	0	26,32,35	0.43	0
1	5MC	B	562	1	19,22,23	0.34	0	26,32,35	0.47	0
1	5MC	B	643	1	19,22,23	0.29	0	26,32,35	0.43	0
1	5MC	B	364	1	19,22,23	0.29	0	26,32,35	0.43	0
1	5MC	A	184	1	19,22,23	0.29	0	26,32,35	0.42	0
1	5MC	B	393	1	19,22,23	0.29	0	26,32,35	0.45	0
1	5MC	B	667	1	19,22,23	0.31	0	26,32,35	0.44	0
1	5MC	A	634	1	19,22,23	0.29	0	26,32,35	0.59	0
1	5MC	A	300	1	19,22,23	0.31	0	26,32,35	0.44	0
1	5MC	A	413	1	19,22,23	0.29	0	26,32,35	0.42	0
1	5MC	B	398	1	19,22,23	0.31	0	26,32,35	0.42	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	5MC	A	449	1	19,22,23	0.30	0	26,32,35	0.42	0
1	5MC	A	92	1	19,22,23	0.27	0	26,32,35	0.45	0
1	5MC	B	413	1	19,22,23	0.27	0	26,32,35	0.42	0
1	5MC	A	571	1	19,22,23	0.27	0	26,32,35	0.43	0
1	5MC	B	451	1	19,22,23	0.28	0	26,32,35	0.43	0
1	5MC	B	575	1	19,22,23	0.32	0	26,32,35	0.44	0
1	5MC	A	397	1	19,22,23	0.30	0	26,32,35	0.44	0
1	5MC	B	530	1	19,22,23	0.30	0	26,32,35	0.42	0
1	5MC	A	65	1	19,22,23	0.27	0	26,32,35	0.45	0
1	5MC	A	685	1	19,22,23	0.26	0	26,32,35	0.44	0
1	5MC	B	22	1	19,22,23	0.29	0	26,32,35	0.44	0
1	5MC	A	583	1	19,22,23	0.31	0	26,32,35	0.45	0
1	5MC	B	365	1	19,22,23	0.29	0	26,32,35	0.43	0
1	5MC	B	644	1	19,22,23	0.29	0	26,32,35	0.44	0
1	5MC	A	310	1	19,22,23	0.29	0	26,32,35	0.44	0
1	5MC	A	679	1	19,22,23	0.30	0	26,32,35	0.44	0
1	5MC	A	26	1	19,22,23	0.32	0	26,32,35	0.48	0
1	5MC	B	180	1	19,22,23	0.31	0	26,32,35	0.45	0
1	5MC	B	255	1	19,22,23	0.30	0	26,32,35	0.44	0
1	5MC	B	685	1	19,22,23	0.27	0	26,32,35	0.44	0
1	5MC	B	250	1	19,22,23	0.30	0	26,32,35	0.45	0
1	5MC	A	690	1	19,22,23	0.30	0	26,32,35	0.45	0
1	5MC	B	305	1	19,22,23	0.30	0	26,32,35	0.44	0
1	5MC	A	442	1	19,22,23	0.29	0	26,32,35	0.44	0
1	5MC	A	104	1	19,22,23	0.29	0	26,32,35	0.43	0
1	5MC	B	323	1	19,22,23	0.31	0	26,32,35	0.44	0
1	5MC	B	504	1	19,22,23	0.29	0	26,32,35	0.43	0
1	5MC	A	614	1	19,22,23	0.31	0	26,32,35	0.44	0
1	5MC	A	382	1	19,22,23	0.31	0	26,32,35	0.46	0
1	5MC	B	486	1	19,22,23	0.28	0	26,32,35	0.43	0
1	5MC	A	257	1	19,22,23	0.31	0	26,32,35	0.45	0
1	5MC	A	24	1	19,22,23	0.31	0	26,32,35	0.45	0
1	5MC	B	134	1	19,22,23	0.31	0	26,32,35	0.44	0
1	5MC	B	573	1	19,22,23	0.28	0	26,32,35	0.43	0
1	5MC	B	656	1	19,22,23	0.29	0	26,32,35	0.42	0
1	5MC	A	40	1	19,22,23	0.29	0	26,32,35	0.43	0
1	5MC	B	32	1	19,22,23	0.36	0	26,32,35	0.46	0
1	5MC	B	665	1	19,22,23	0.32	0	26,32,35	0.44	0
1	5MC	B	524	1	19,22,23	0.31	0	26,32,35	0.47	0
1	5MC	B	455	1	19,22,23	0.30	0	26,32,35	0.44	0
1	5MC	B	78	1	19,22,23	0.65	0	26,32,35	1.32	4 (15%)
1	5MC	B	435	1	19,22,23	0.31	0	26,32,35	0.45	0
1	5MC	B	79	1	19,22,23	0.30	0	26,32,35	0.43	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	5MC	A	465	1	19,22,23	0.33	0	26,32,35	0.47	0
1	5MC	B	439	1	19,22,23	0.30	0	26,32,35	0.44	0
1	5MC	A	593	1	19,22,23	0.29	0	26,32,35	0.45	0
1	5MC	B	142	1	19,22,23	0.29	0	26,32,35	0.44	0
1	5MC	B	36	1	19,22,23	0.30	0	26,32,35	0.44	0
1	5MC	A	347	1	19,22,23	0.24	0	26,32,35	0.46	0
1	5MC	A	435	1	19,22,23	0.28	0	26,32,35	0.45	0
1	5MC	A	220	1	19,22,23	0.29	0	26,32,35	0.44	0
1	5MC	B	468	1	19,22,23	0.31	0	26,32,35	0.45	0
1	5MC	A	313	1	19,22,23	0.29	0	26,32,35	0.42	0
1	5MC	A	553	1	19,22,23	0.32	0	26,32,35	0.48	0
1	5MC	A	41	1	19,22,23	0.31	0	26,32,35	0.48	0
1	5MC	A	263	1	19,22,23	0.29	0	26,32,35	0.46	0
1	5MC	A	715	1	19,22,23	0.31	0	26,32,35	0.45	0
1	5MC	B	571	1	19,22,23	0.29	0	26,32,35	0.44	0
1	5MC	B	555	1	19,22,23	0.34	0	26,32,35	0.50	0
1	5MC	A	406	1	19,22,23	0.31	0	26,32,35	0.46	0
1	5MC	A	727	1	19,22,23	0.31	0	26,32,35	0.43	0
1	5MC	A	513	1	19,22,23	0.29	0	26,32,35	0.45	0
1	5MC	A	155	1	19,22,23	0.31	0	26,32,35	0.43	0
1	5MC	A	214	1	19,22,23	0.33	0	26,32,35	0.47	0
1	5MC	A	6	1	19,22,23	0.30	0	26,32,35	0.43	0
1	5MC	B	583	1	19,22,23	0.32	0	26,32,35	0.45	0
1	5MC	A	482	1	19,22,23	0.23	0	26,32,35	0.45	0
1	5MC	A	484	1	19,22,23	0.30	0	26,32,35	0.44	0
1	5MC	A	49	1	19,22,23	0.29	0	26,32,35	0.43	0
1	5MC	B	679	1	19,22,23	0.30	0	26,32,35	0.43	0
1	5MC	A	182	1	19,22,23	0.29	0	26,32,35	0.43	0
1	5MC	A	102	1	19,22,23	0.28	0	26,32,35	0.43	0
1	5MC	B	690	1	19,22,23	0.27	0	26,32,35	0.44	0
1	5MC	A	128	1	19,22,23	0.27	0	26,32,35	0.42	0
1	5MC	B	449	1	19,22,23	0.30	0	26,32,35	0.42	0
1	5MC	A	75	1	19,22,23	0.24	0	26,32,35	0.41	0
1	5MC	B	688	1	19,22,23	0.30	0	26,32,35	0.45	0
1	5MC	A	134	1	19,22,23	0.29	0	26,32,35	0.45	0
1	5MC	B	614	1	19,22,23	0.29	0	26,32,35	0.44	0
1	5MC	A	381	1	19,22,23	0.28	0	26,32,35	0.44	0
1	5MC	B	382	1	19,22,23	0.29	0	26,32,35	0.44	0
1	5MC	A	589	1	19,22,23	0.28	0	26,32,35	0.43	0
1	5MC	B	128	1	19,22,23	0.27	0	26,32,35	0.43	0
1	5MC	B	397	1	19,22,23	0.29	0	26,32,35	0.44	0
1	5MC	A	79	1	19,22,23	0.31	0	26,32,35	0.44	0
1	5MC	B	381	1	19,22,23	0.30	0	26,32,35	0.44	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	5MC	A	225	1	19,22,23	0.28	0	26,32,35	0.42	0
1	5MC	A	674	1	19,22,23	0.27	0	26,32,35	0.45	0
1	5MC	A	218	1	19,22,23	0.32	0	26,32,35	0.44	0
1	5MC	A	487	1	19,22,23	0.32	0	26,32,35	0.43	0
1	5MC	A	37	1	19,22,23	0.30	0	26,32,35	0.43	0
1	5MC	B	41	1	19,22,23	0.31	0	26,32,35	0.48	0
1	5MC	A	506	1	19,22,23	0.29	0	26,32,35	0.43	0
1	5MC	B	192	1	19,22,23	0.31	0	26,32,35	0.45	0
1	5MC	B	535	1	19,22,23	0.31	0	26,32,35	0.44	0
1	5MC	A	213	1	19,22,23	0.29	0	26,32,35	0.44	0
1	5MC	A	246	1	19,22,23	0.29	0	26,32,35	0.42	0
1	5MC	B	310	1	19,22,23	0.28	0	26,32,35	0.44	0
1	5MC	B	659	1	19,22,23	0.29	0	26,32,35	0.44	0
1	5MC	B	327	1	19,22,23	0.29	0	26,32,35	0.42	0
1	5MC	A	290	1	19,22,23	0.29	0	26,32,35	0.43	0
1	5MC	A	375	1	19,22,23	0.30	0	26,32,35	0.45	0
1	5MC	B	409	1	19,22,23	0.31	0	26,32,35	0.44	0
1	5MC	B	104	1	19,22,23	0.28	0	26,32,35	0.43	0
1	5MC	A	169	1	19,22,23	0.29	0	26,32,35	0.44	0
1	5MC	B	220	1	19,22,23	0.31	0	26,32,35	0.45	0
1	5MC	B	634	1	19,22,23	0.27	0	26,32,35	0.59	0
1	5MC	A	535	1	19,22,23	0.29	0	26,32,35	0.44	0
1	5MC	A	617	1	19,22,23	0.30	0	26,32,35	0.44	0
1	5MC	B	257	1	19,22,23	0.29	0	26,32,35	0.45	0
1	5MC	B	24	1	19,22,23	0.29	0	26,32,35	0.45	0
1	5MC	B	182	1	19,22,23	0.29	0	26,32,35	0.45	0
1	5MC	B	472	1	19,22,23	0.32	0	26,32,35	0.45	0
1	5MC	B	263	1	19,22,23	0.29	0	26,32,35	0.45	0
1	5MC	B	715	1	19,22,23	0.28	0	26,32,35	0.43	0
1	5MC	A	701	1	19,22,23	0.29	0	26,32,35	0.45	0
1	5MC	B	617	1	19,22,23	0.29	0	26,32,35	0.43	0
1	5MC	A	173	1	19,22,23	0.30	0	26,32,35	0.45	0
1	5MC	B	442	1	19,22,23	0.30	0	26,32,35	0.44	0
1	5MC	A	417	1	19,22,23	0.32	0	26,32,35	0.45	0
1	5MC	B	406	1	19,22,23	0.31	0	26,32,35	0.45	0
1	5MC	A	578	1	19,22,23	0.29	0	26,32,35	0.41	0
1	5MC	A	123	1	19,22,23	0.30	0	26,32,35	0.43	0
1	5MC	B	513	1	19,22,23	0.30	0	26,32,35	0.44	0
1	5MC	A	547	1	19,22,23	0.30	0	26,32,35	0.44	0
1	5MC	A	608	1	19,22,23	0.30	0	26,32,35	0.44	0
1	5MC	A	133	1	19,22,23	0.30	0	26,32,35	0.43	0
1	5MC	A	416	1	19,22,23	0.27	0	26,32,35	0.42	0
1	5MC	B	620	1	19,22,23	0.29	0	26,32,35	0.44	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	5MC	A	8	1	19,22,23	0.29	0	26,32,35	0.43	0
1	5MC	A	105	1	19,22,23	0.30	0	26,32,35	0.44	0
1	5MC	B	701	1	19,22,23	0.26	0	26,32,35	0.45	0
1	5MC	A	22	1	19,22,23	0.30	0	26,32,35	0.44	0
1	5MC	B	578	1	19,22,23	0.29	0	26,32,35	0.42	0
1	5MC	B	6	1	19,22,23	0.31	0	26,32,35	0.43	0
1	5MC	B	482	1	19,22,23	0.26	0	26,32,35	0.46	0
1	5MC	A	726	1	19,22,23	0.30	0	26,32,35	0.43	0
1	5MC	A	438	1	19,22,23	0.29	0	26,32,35	0.43	0
1	5MC	A	511	1	19,22,23	0.30	0	26,32,35	0.44	0
1	5MC	B	102	1	19,22,23	0.30	0	26,32,35	0.43	0
1	5MC	A	10	1	19,22,23	0.29	0	26,32,35	0.44	0
1	5MC	B	506	1	19,22,23	0.32	0	26,32,35	0.43	0
1	5MC	A	599	1	19,22,23	0.31	0	26,32,35	0.47	0
1	5MC	A	233	1	19,22,23	0.31	0	26,32,35	0.43	0
1	5MC	B	313	1	19,22,23	0.28	0	26,32,35	0.43	0
1	5MC	A	279	1	19,22,23	0.29	0	26,32,35	0.44	0
1	5MC	B	726	1	19,22,23	0.29	0	26,32,35	0.43	0
1	5MC	B	553	1	19,22,23	0.30	0	26,32,35	0.48	0
1	5MC	B	65	1	19,22,23	0.29	0	26,32,35	0.45	0
1	5MC	B	75	1	19,22,23	0.68	0	26,32,35	1.23	3 (11%)
1	5MC	B	696	1	19,22,23	0.27	0	26,32,35	0.42	0
1	5MC	A	73	1	19,22,23	0.31	0	26,32,35	0.44	0
1	5MC	A	121	1	19,22,23	0.28	0	26,32,35	0.43	0
1	5MC	A	212	1	19,22,23	0.29	0	26,32,35	0.44	0
1	5MC	B	410	1	19,22,23	0.29	0	26,32,35	0.44	0
1	5MC	B	589	1	19,22,23	0.29	0	26,32,35	0.43	0
1	5MC	A	67	1	19,22,23	0.27	0	26,32,35	0.44	0
1	5MC	A	5	1	19,22,23	0.27	0	26,32,35	0.43	0
1	5MC	A	639	1	19,22,23	0.29	0	26,32,35	0.43	0
1	5MC	A	107	1	19,22,23	0.31	0	26,32,35	0.43	0
1	5MC	A	289	1	19,22,23	0.30	0	26,32,35	0.43	0
1	5MC	A	598	1	19,22,23	0.31	0	26,32,35	0.43	0
1	5MC	A	667	1	19,22,23	0.29	0	26,32,35	0.44	0
1	5MC	B	225	1	19,22,23	0.27	0	26,32,35	0.42	0
1	5MC	B	674	1	19,22,23	0.28	0	26,32,35	0.45	0
1	5MC	B	218	1	19,22,23	0.32	0	26,32,35	0.43	0
1	5MC	B	214	1	19,22,23	0.31	0	26,32,35	0.45	0
1	5MC	A	282	1	19,22,23	0.29	0	26,32,35	0.43	0
1	5MC	A	696	1	19,22,23	0.28	0	26,32,35	0.43	0
1	5MC	A	398	1	19,22,23	0.28	0	26,32,35	0.42	0
1	5MC	B	289	1	19,22,23	0.29	0	26,32,35	0.43	0
1	5MC	A	119	1	19,22,23	0.29	0	26,32,35	0.45	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	5MC	A	575	1	19,22,23	0.31	0	26,32,35	0.45	0
1	5MC	A	71	1	19,22,23	0.28	0	26,32,35	0.42	0
1	5MC	B	213	1	19,22,23	0.31	0	26,32,35	0.43	0
1	5MC	B	173	1	19,22,23	0.29	0	26,32,35	0.45	0
1	5MC	A	545	1	19,22,23	0.27	0	26,32,35	0.45	0
1	5MC	B	188	1	19,22,23	0.29	0	26,32,35	0.43	0
1	5MC	B	37	1	19,22,23	0.31	0	26,32,35	0.44	0
1	5MC	A	566	1	19,22,23	0.29	0	26,32,35	0.44	0
1	5MC	B	276	1	19,22,23	0.29	0	26,32,35	0.45	0
1	5MC	B	624	1	19,22,23	0.31	0	26,32,35	0.42	0
1	5MC	B	616	1	19,22,23	0.29	0	26,32,35	0.43	0
1	5MC	A	450	1	19,22,23	0.29	0	26,32,35	0.43	0
1	5MC	B	71	1	19,22,23	0.28	0	26,32,35	0.42	0
1	5MC	B	375	1	19,22,23	0.28	0	26,32,35	0.45	0
1	5MC	B	169	1	19,22,23	0.28	0	26,32,35	0.43	0
1	5MC	A	652	1	19,22,23	0.29	0	26,32,35	0.44	0
1	5MC	A	677	1	19,22,23	0.28	0	26,32,35	0.43	0
1	5MC	A	447	1	19,22,23	0.31	0	26,32,35	0.44	0
1	5MC	A	159	1	19,22,23	0.31	0	26,32,35	0.45	0
1	5MC	A	620	1	19,22,23	0.27	0	26,32,35	0.45	0
1	5MC	B	487	1	19,22,23	0.29	0	26,32,35	0.43	0
1	5MC	A	244	1	19,22,23	0.29	0	26,32,35	0.43	0
1	5MC	A	530	1	19,22,23	0.28	0	26,32,35	0.41	0
1	5MC	B	608	1	19,22,23	0.31	0	26,32,35	0.43	0
1	5MC	B	133	1	19,22,23	0.28	0	26,32,35	0.43	0
1	5MC	B	416	1	19,22,23	0.30	0	26,32,35	0.43	0
1	5MC	B	8	1	19,22,23	0.29	0	26,32,35	0.44	0
1	5MC	B	105	1	19,22,23	0.30	0	26,32,35	0.43	0
1	5MC	B	155	1	19,22,23	0.30	0	26,32,35	0.43	0
1	5MC	A	363	1	19,22,23	0.28	0	26,32,35	0.43	0
1	5MC	A	644	1	19,22,23	0.28	0	26,32,35	0.44	0
1	5MC	A	446	1	19,22,23	0.27	0	26,32,35	0.43	0
1	5MC	A	524	1	19,22,23	0.32	0	26,32,35	0.46	0
1	5MC	B	158	1	19,22,23	0.28	0	26,32,35	0.44	0
1	5MC	A	613	1	19,22,23	0.31	0	26,32,35	0.43	0
1	5MC	A	327	1	19,22,23	0.29	0	26,32,35	0.43	0
1	5MC	B	669	1	19,22,23	0.31	0	26,32,35	0.45	0
1	5MC	A	84	1	19,22,23	0.30	0	26,32,35	0.45	0
1	5MC	A	29	1	19,22,23	0.30	0	26,32,35	0.40	0
1	5MC	A	36	1	19,22,23	0.29	0	26,32,35	0.44	0
1	5MC	A	18	1	19,22,23	0.30	0	26,32,35	0.44	0
1	5MC	A	676	1	19,22,23	0.30	0	26,32,35	0.43	0
1	5MC	B	233	1	19,22,23	0.31	0	26,32,35	0.44	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	5MC	B	184	1	19,22,23	0.30	0	26,32,35	0.42	0
1	5MC	A	401	1	19,22,23	0.29	0	26,32,35	0.43	0
1	5MC	B	279	1	19,22,23	0.27	0	26,32,35	0.44	0
1	5MC	A	148	1	19,22,23	0.29	0	26,32,35	0.44	0
1	5MC	A	616	1	19,22,23	0.28	0	26,32,35	0.43	0
1	5MC	A	503	1	19,22,23	0.30	0	26,32,35	0.43	0
1	5MC	B	121	1	19,22,23	0.30	0	26,32,35	0.42	0
1	5MC	A	15	1	19,22,23	0.25	0	26,32,35	0.42	0
1	5MC	A	486	1	19,22,23	0.27	0	26,32,35	0.42	0
1	5MC	B	67	1	19,22,23	0.29	0	26,32,35	0.44	0
1	5MC	B	5	1	19,22,23	0.29	0	26,32,35	0.43	0
1	5MC	A	32	1	19,22,23	0.25	0	26,32,35	0.51	0
1	5MC	B	639	1	19,22,23	0.29	0	26,32,35	0.44	0
1	5MC	B	598	1	19,22,23	0.30	0	26,32,35	0.43	0
1	5MC	A	377	1	19,22,23	0.29	0	26,32,35	0.44	0
1	5MC	B	123	1	19,22,23	0.31	0	26,32,35	0.43	0
1	5MC	B	477	1	19,22,23	0.30	0	26,32,35	0.44	0
1	5MC	B	282	1	19,22,23	0.30	0	26,32,35	0.43	0
1	5MC	A	688	1	19,22,23	0.30	0	26,32,35	0.46	0
1	5MC	B	119	1	19,22,23	0.29	0	26,32,35	0.44	0
1	5MC	A	266	1	19,22,23	0.31	0	26,32,35	0.46	0
1	5MC	A	340	1	19,22,23	0.30	0	26,32,35	0.44	0
1	5MC	A	151	1	19,22,23	0.27	0	26,32,35	0.44	0
1	5MC	A	658	1	19,22,23	0.27	0	26,32,35	0.45	0
1	5MC	B	545	1	19,22,23	0.27	0	26,32,35	0.42	0
1	5MC	B	438	1	19,22,23	0.29	0	26,32,35	0.43	0
1	5MC	B	511	1	19,22,23	0.31	0	26,32,35	0.44	0
1	5MC	B	566	1	19,22,23	0.28	0	26,32,35	0.46	0
1	5MC	B	10	1	19,22,23	0.31	0	26,32,35	0.44	0
1	5MC	B	593	1	19,22,23	0.28	0	26,32,35	0.45	0
1	5MC	A	477	1	19,22,23	0.29	0	26,32,35	0.44	0
1	5MC	B	345	1	19,22,23	0.29	0	26,32,35	0.43	0
1	5MC	B	73	1	19,22,23	0.31	0	26,32,35	0.45	0
1	5MC	A	423	1	19,22,23	0.30	0	26,32,35	0.44	0
1	5MC	A	468	1	19,22,23	0.33	0	26,32,35	0.45	0
1	5MC	B	652	1	19,22,23	0.31	0	26,32,35	0.43	0
1	5MC	B	17	1	19,22,23	0.27	0	26,32,35	0.42	0
1	5MC	A	200	1	19,22,23	0.27	0	26,32,35	0.45	0
1	5MC	B	613	1	19,22,23	0.30	0	26,32,35	0.43	0
1	5MC	A	189	1	19,22,23	0.31	0	26,32,35	0.44	0
1	5MC	B	107	1	19,22,23	0.31	0	26,32,35	0.43	0
1	5MC	A	314	1	19,22,23	0.30	0	26,32,35	0.46	0
1	5MC	B	677	1	19,22,23	0.29	0	26,32,35	0.43	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	5MC	B	447	1	19,22,23	0.30	0	26,32,35	0.44	0
1	5MC	B	697	1	19,22,23	0.32	0	26,32,35	0.45	0
1	5MC	B	159	1	19,22,23	0.30	0	26,32,35	0.44	0
1	5MC	A	146	1	19,22,23	0.28	0	26,32,35	0.45	0
1	5MC	A	687	1	19,22,23	0.30	0	26,32,35	0.43	0
1	5MC	A	555	1	19,22,23	0.32	0	26,32,35	0.50	0
1	5MC	B	547	1	19,22,23	0.28	0	26,32,35	0.44	0
1	5MC	A	86	1	19,22,23	0.31	0	26,32,35	0.45	0
1	5MC	B	146	1	19,22,23	0.31	0	26,32,35	0.45	0
1	5MC	B	300	1	19,22,23	0.29	0	26,32,35	0.44	0
1	5MC	B	727	1	19,22,23	0.29	0	26,32,35	0.43	0
1	5MC	A	472	1	19,22,23	0.32	0	26,32,35	0.45	0
1	5MC	B	86	1	19,22,23	0.32	0	26,32,35	0.45	0
1	5MC	A	72	1	19,22,23	0.30	0	26,32,35	0.43	0
1	5MC	B	446	1	19,22,23	0.29	0	26,32,35	0.44	0
1	5MC	A	410	1	19,22,23	0.30	0	26,32,35	0.44	0
1	5MC	B	244	1	19,22,23	0.30	0	26,32,35	0.43	0
1	5MC	B	92	1	19,22,23	0.28	0	26,32,35	0.45	0

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	5MC	B	29	1	-	2/7/25/26	0/2/2/2
1	5MC	A	483	1	-	3/7/25/26	0/2/2/2
1	5MC	A	192	1	-	0/7/25/26	0/2/2/2
1	5MC	B	18	1	-	0/7/25/26	0/2/2/2
1	5MC	B	49	1	-	0/7/25/26	0/2/2/2
1	5MC	A	461	1	-	0/7/25/26	0/2/2/2
1	5MC	A	132	1	-	0/7/25/26	0/2/2/2
1	5MC	B	503	1	-	0/7/25/26	0/2/2/2
1	5MC	B	26	1	-	0/7/25/26	0/2/2/2
1	5MC	A	393	1	-	0/7/25/26	0/2/2/2
1	5MC	B	15	1	-	0/7/25/26	0/2/2/2
1	5MC	B	377	1	-	0/7/25/26	0/2/2/2
1	5MC	A	409	1	-	0/7/25/26	0/2/2/2
1	5MC	A	431	1	-	0/7/25/26	0/2/2/2
1	5MC	B	484	1	-	0/7/25/26	0/2/2/2
1	5MC	A	272	1	-	0/7/25/26	0/2/2/2
1	5MC	B	363	1	-	0/7/25/26	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	5MC	B	266	1	-	0/7/25/26	0/2/2/2
1	5MC	B	340	1	-	0/7/25/26	0/2/2/2
1	5MC	B	151	1	-	0/7/25/26	0/2/2/2
1	5MC	A	697	1	-	0/7/25/26	0/2/2/2
1	5MC	B	347	1	-	2/7/25/26	0/2/2/2
1	5MC	B	84	1	-	0/6/24/26	0/2/2/2
1	5MC	A	439	1	-	0/7/25/26	0/2/2/2
1	5MC	A	17	1	-	1/7/25/26	0/2/2/2
1	5MC	B	148	1	-	1/7/25/26	0/2/2/2
1	5MC	A	562	1	-	0/7/25/26	0/2/2/2
1	5MC	A	643	1	-	0/7/25/26	0/2/2/2
1	5MC	A	122	1	-	0/7/25/26	0/2/2/2
1	5MC	B	200	1	-	4/7/25/26	0/2/2/2
1	5MC	A	188	1	-	0/7/25/26	0/2/2/2
1	5MC	B	189	1	-	0/7/25/26	0/2/2/2
1	5MC	B	314	1	-	2/7/25/26	0/2/2/2
1	5MC	A	455	1	-	0/7/25/26	0/2/2/2
1	5MC	A	404	1	-	0/7/25/26	0/2/2/2
1	5MC	A	305	1	-	0/7/25/26	0/2/2/2
1	5MC	B	574	1	-	0/7/25/26	0/2/2/2
1	5MC	A	659	1	-	0/7/25/26	0/2/2/2
1	5MC	B	404	1	-	0/7/25/26	0/2/2/2
1	5MC	B	290	1	-	0/7/25/26	0/2/2/2
1	5MC	B	658	1	-	2/7/25/26	0/2/2/2
1	5MC	A	656	1	-	0/7/25/26	0/2/2/2
1	5MC	B	246	1	-	0/7/25/26	0/2/2/2
1	5MC	A	78	1	-	0/7/25/26	0/2/2/2
1	5MC	B	423	1	-	0/7/25/26	0/2/2/2
1	5MC	B	205	1	-	0/7/25/26	0/2/2/2
1	5MC	A	276	1	-	0/7/25/26	0/2/2/2
1	5MC	A	365	1	-	1/7/25/26	0/2/2/2
1	5MC	B	676	1	-	2/7/25/26	0/2/2/2
1	5MC	A	180	1	-	0/7/25/26	0/2/2/2
1	5MC	A	255	1	-	0/7/25/26	0/2/2/2
1	5MC	B	450	1	-	1/7/25/26	0/2/2/2
1	5MC	B	132	1	-	0/7/25/26	0/2/2/2
1	5MC	A	250	1	-	0/7/25/26	0/2/2/2
1	5MC	B	417	1	-	0/7/25/26	0/2/2/2
1	5MC	A	142	1	-	0/7/25/26	0/2/2/2
1	5MC	A	299	1	-	0/7/25/26	0/2/2/2
1	5MC	B	687	1	-	0/7/25/26	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	5MC	A	647	1	-	4/7/25/26	0/2/2/2
1	5MC	A	669	1	-	0/7/25/26	0/2/2/2
1	5MC	A	451	1	-	0/7/25/26	0/2/2/2
1	5MC	A	323	1	-	0/7/25/26	0/2/2/2
1	5MC	A	504	1	-	0/7/25/26	0/2/2/2
1	5MC	A	205	1	-	0/7/25/26	0/2/2/2
1	5MC	B	299	1	-	0/7/25/26	0/2/2/2
1	5MC	B	122	1	-	0/7/25/26	0/2/2/2
1	5MC	B	431	1	-	0/7/25/26	0/2/2/2
1	5MC	B	647	1	-	4/7/25/26	0/2/2/2
1	5MC	B	40	1	-	0/7/25/26	0/2/2/2
1	5MC	B	401	1	-	0/7/25/26	0/2/2/2
1	5MC	A	573	1	-	0/7/25/26	0/2/2/2
1	5MC	A	345	1	-	0/7/25/26	0/2/2/2
1	5MC	B	272	1	-	0/7/25/26	0/2/2/2
1	5MC	B	72	1	-	0/7/25/26	0/2/2/2
1	5MC	A	574	1	-	0/7/25/26	0/2/2/2
1	5MC	A	665	1	-	0/7/25/26	0/2/2/2
1	5MC	B	599	1	-	0/7/25/26	0/2/2/2
1	5MC	B	465	1	-	0/7/25/26	0/2/2/2
1	5MC	B	483	1	-	3/7/25/26	0/2/2/2
1	5MC	A	364	1	-	0/7/25/26	0/2/2/2
1	5MC	A	158	1	-	2/7/25/26	0/2/2/2
1	5MC	B	212	1	-	0/7/25/26	0/2/2/2
1	5MC	A	624	1	-	0/7/25/26	0/2/2/2
1	5MC	B	461	1	-	0/7/25/26	0/2/2/2
1	5MC	B	562	1	-	0/7/25/26	0/2/2/2
1	5MC	B	643	1	-	0/7/25/26	0/2/2/2
1	5MC	B	364	1	-	0/7/25/26	0/2/2/2
1	5MC	A	184	1	-	0/7/25/26	0/2/2/2
1	5MC	B	393	1	-	0/7/25/26	0/2/2/2
1	5MC	B	667	1	-	0/7/25/26	0/2/2/2
1	5MC	A	634	1	-	0/7/25/26	0/2/2/2
1	5MC	A	300	1	-	0/7/25/26	0/2/2/2
1	5MC	A	413	1	-	2/7/25/26	0/2/2/2
1	5MC	B	398	1	-	0/7/25/26	0/2/2/2
1	5MC	A	449	1	-	2/7/25/26	0/2/2/2
1	5MC	A	92	1	-	4/7/25/26	0/2/2/2
1	5MC	B	413	1	-	2/7/25/26	0/2/2/2
1	5MC	A	571	1	-	0/7/25/26	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	5MC	B	451	1	-	0/7/25/26	0/2/2/2
1	5MC	B	575	1	-	0/7/25/26	0/2/2/2
1	5MC	A	397	1	-	0/7/25/26	0/2/2/2
1	5MC	B	530	1	-	1/7/25/26	0/2/2/2
1	5MC	A	65	1	-	5/7/25/26	0/2/2/2
1	5MC	A	685	1	-	2/7/25/26	0/2/2/2
1	5MC	B	22	1	-	0/7/25/26	0/2/2/2
1	5MC	A	583	1	-	0/7/25/26	0/2/2/2
1	5MC	B	365	1	-	1/7/25/26	0/2/2/2
1	5MC	B	644	1	-	0/7/25/26	0/2/2/2
1	5MC	A	310	1	-	0/7/25/26	0/2/2/2
1	5MC	A	679	1	-	0/7/25/26	0/2/2/2
1	5MC	A	26	1	-	0/7/25/26	0/2/2/2
1	5MC	B	180	1	-	0/7/25/26	0/2/2/2
1	5MC	B	255	1	-	0/7/25/26	0/2/2/2
1	5MC	B	685	1	-	2/7/25/26	0/2/2/2
1	5MC	B	250	1	-	0/7/25/26	0/2/2/2
1	5MC	A	690	1	-	0/7/25/26	0/2/2/2
1	5MC	B	305	1	-	0/7/25/26	0/2/2/2
1	5MC	A	442	1	-	0/7/25/26	0/2/2/2
1	5MC	A	104	1	-	0/7/25/26	0/2/2/2
1	5MC	B	323	1	-	0/7/25/26	0/2/2/2
1	5MC	B	504	1	-	0/7/25/26	0/2/2/2
1	5MC	A	614	1	-	0/7/25/26	0/2/2/2
1	5MC	A	382	1	-	0/7/25/26	0/2/2/2
1	5MC	B	486	1	-	1/7/25/26	0/2/2/2
1	5MC	A	257	1	-	0/7/25/26	0/2/2/2
1	5MC	A	24	1	-	0/7/25/26	0/2/2/2
1	5MC	B	134	1	-	0/7/25/26	0/2/2/2
1	5MC	B	573	1	-	0/7/25/26	0/2/2/2
1	5MC	B	656	1	-	1/7/25/26	0/2/2/2
1	5MC	A	40	1	-	0/7/25/26	0/2/2/2
1	5MC	B	32	1	-	0/7/25/26	0/2/2/2
1	5MC	B	665	1	-	0/7/25/26	0/2/2/2
1	5MC	B	524	1	-	0/7/25/26	0/2/2/2
1	5MC	B	455	1	-	0/7/25/26	0/2/2/2
1	5MC	B	78	1	-	0/7/25/26	0/2/2/2
1	5MC	B	435	1	-	0/7/25/26	0/2/2/2
1	5MC	B	79	1	-	0/7/25/26	0/2/2/2
1	5MC	A	465	1	-	0/7/25/26	0/2/2/2
1	5MC	B	439	1	-	0/7/25/26	0/2/2/2
1	5MC	A	593	1	-	0/7/25/26	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	5MC	B	142	1	-	0/7/25/26	0/2/2/2
1	5MC	B	36	1	-	0/7/25/26	0/2/2/2
1	5MC	A	347	1	-	2/7/25/26	0/2/2/2
1	5MC	A	435	1	-	0/7/25/26	0/2/2/2
1	5MC	A	220	1	-	0/7/25/26	0/2/2/2
1	5MC	B	468	1	-	0/7/25/26	0/2/2/2
1	5MC	A	313	1	-	2/7/25/26	0/2/2/2
1	5MC	A	553	1	-	2/7/25/26	0/2/2/2
1	5MC	A	41	1	-	0/7/25/26	0/2/2/2
1	5MC	A	263	1	-	0/7/25/26	0/2/2/2
1	5MC	A	715	1	-	0/7/25/26	0/2/2/2
1	5MC	B	571	1	-	0/7/25/26	0/2/2/2
1	5MC	B	555	1	-	0/7/25/26	0/2/2/2
1	5MC	A	406	1	-	0/7/25/26	0/2/2/2
1	5MC	A	727	1	-	0/7/25/26	0/2/2/2
1	5MC	A	513	1	-	0/7/25/26	0/2/2/2
1	5MC	A	155	1	-	0/7/25/26	0/2/2/2
1	5MC	A	214	1	-	0/7/25/26	0/2/2/2
1	5MC	A	6	1	-	0/7/25/26	0/2/2/2
1	5MC	B	583	1	-	0/7/25/26	0/2/2/2
1	5MC	A	482	1	-	2/7/25/26	0/2/2/2
1	5MC	A	484	1	-	0/7/25/26	0/2/2/2
1	5MC	A	49	1	-	0/7/25/26	0/2/2/2
1	5MC	B	679	1	-	0/7/25/26	0/2/2/2
1	5MC	A	182	1	-	0/7/25/26	0/2/2/2
1	5MC	A	102	1	-	0/7/25/26	0/2/2/2
1	5MC	B	690	1	-	1/7/25/26	0/2/2/2
1	5MC	A	128	1	-	0/7/25/26	0/2/2/2
1	5MC	B	449	1	-	2/7/25/26	0/2/2/2
1	5MC	A	75	1	-	2/7/25/26	0/2/2/2
1	5MC	B	688	1	-	0/7/25/26	0/2/2/2
1	5MC	A	134	1	-	0/7/25/26	0/2/2/2
1	5MC	B	614	1	-	0/7/25/26	0/2/2/2
1	5MC	A	381	1	-	1/7/25/26	0/2/2/2
1	5MC	B	382	1	-	0/7/25/26	0/2/2/2
1	5MC	A	589	1	-	0/7/25/26	0/2/2/2
1	5MC	B	128	1	-	0/7/25/26	0/2/2/2
1	5MC	B	397	1	-	0/7/25/26	0/2/2/2
1	5MC	A	79	1	-	0/7/25/26	0/2/2/2
1	5MC	B	381	1	-	2/7/25/26	0/2/2/2
1	5MC	A	225	1	-	0/7/25/26	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	5MC	A	674	1	-	4/7/25/26	0/2/2/2
1	5MC	A	218	1	-	0/7/25/26	0/2/2/2
1	5MC	A	487	1	-	0/7/25/26	0/2/2/2
1	5MC	A	37	1	-	0/7/25/26	0/2/2/2
1	5MC	B	41	1	-	0/7/25/26	0/2/2/2
1	5MC	A	506	1	-	0/7/25/26	0/2/2/2
1	5MC	B	192	1	-	0/7/25/26	0/2/2/2
1	5MC	B	535	1	-	0/7/25/26	0/2/2/2
1	5MC	A	213	1	-	0/7/25/26	0/2/2/2
1	5MC	A	246	1	-	0/7/25/26	0/2/2/2
1	5MC	B	310	1	-	0/7/25/26	0/2/2/2
1	5MC	B	659	1	-	0/7/25/26	0/2/2/2
1	5MC	B	327	1	-	2/7/25/26	0/2/2/2
1	5MC	A	290	1	-	0/7/25/26	0/2/2/2
1	5MC	A	375	1	-	0/7/25/26	0/2/2/2
1	5MC	B	409	1	-	0/7/25/26	0/2/2/2
1	5MC	B	104	1	-	0/7/25/26	0/2/2/2
1	5MC	A	169	1	-	0/7/25/26	0/2/2/2
1	5MC	B	220	1	-	0/7/25/26	0/2/2/2
1	5MC	B	634	1	-	0/7/25/26	0/2/2/2
1	5MC	A	535	1	-	0/7/25/26	0/2/2/2
1	5MC	A	617	1	-	0/7/25/26	0/2/2/2
1	5MC	B	257	1	-	0/7/25/26	0/2/2/2
1	5MC	B	24	1	-	0/7/25/26	0/2/2/2
1	5MC	B	182	1	-	0/7/25/26	0/2/2/2
1	5MC	B	472	1	-	0/7/25/26	0/2/2/2
1	5MC	B	263	1	-	0/7/25/26	0/2/2/2
1	5MC	B	715	1	-	0/7/25/26	0/2/2/2
1	5MC	A	701	1	-	5/7/25/26	0/2/2/2
1	5MC	B	617	1	-	0/7/25/26	0/2/2/2
1	5MC	A	173	1	-	6/7/25/26	0/2/2/2
1	5MC	B	442	1	-	0/7/25/26	0/2/2/2
1	5MC	A	417	1	-	0/7/25/26	0/2/2/2
1	5MC	B	406	1	-	0/7/25/26	0/2/2/2
1	5MC	A	578	1	-	0/7/25/26	0/2/2/2
1	5MC	A	123	1	-	0/7/25/26	0/2/2/2
1	5MC	B	513	1	-	0/7/25/26	0/2/2/2
1	5MC	A	547	1	-	0/7/25/26	0/2/2/2
1	5MC	A	608	1	-	0/7/25/26	0/2/2/2
1	5MC	A	133	1	-	0/7/25/26	0/2/2/2
1	5MC	A	416	1	-	0/7/25/26	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	5MC	B	620	1	-	4/7/25/26	0/2/2/2
1	5MC	A	8	1	-	0/7/25/26	0/2/2/2
1	5MC	A	105	1	-	1/7/25/26	0/2/2/2
1	5MC	B	701	1	-	4/7/25/26	0/2/2/2
1	5MC	A	22	1	-	0/7/25/26	0/2/2/2
1	5MC	B	578	1	-	0/7/25/26	0/2/2/2
1	5MC	B	6	1	-	0/7/25/26	0/2/2/2
1	5MC	B	482	1	-	2/7/25/26	0/2/2/2
1	5MC	A	726	1	-	0/7/25/26	0/2/2/2
1	5MC	A	438	1	-	0/7/25/26	0/2/2/2
1	5MC	A	511	1	-	0/7/25/26	0/2/2/2
1	5MC	B	102	1	-	0/7/25/26	0/2/2/2
1	5MC	A	10	1	-	0/7/25/26	0/2/2/2
1	5MC	B	506	1	-	0/7/25/26	0/2/2/2
1	5MC	A	599	1	-	0/7/25/26	0/2/2/2
1	5MC	A	233	1	-	0/7/25/26	0/2/2/2
1	5MC	B	313	1	-	2/7/25/26	0/2/2/2
1	5MC	A	279	1	-	2/7/25/26	0/2/2/2
1	5MC	B	726	1	-	1/7/25/26	0/2/2/2
1	5MC	B	553	1	-	2/7/25/26	0/2/2/2
1	5MC	B	65	1	-	6/7/25/26	0/2/2/2
1	5MC	B	75	1	-	2/7/25/26	0/2/2/2
1	5MC	B	696	1	-	0/7/25/26	0/2/2/2
1	5MC	A	73	1	-	0/7/25/26	0/2/2/2
1	5MC	A	121	1	-	0/7/25/26	0/2/2/2
1	5MC	A	212	1	-	0/7/25/26	0/2/2/2
1	5MC	B	410	1	-	0/7/25/26	0/2/2/2
1	5MC	B	589	1	-	0/7/25/26	0/2/2/2
1	5MC	A	67	1	-	1/7/25/26	0/2/2/2
1	5MC	A	5	1	-	0/7/25/26	0/2/2/2
1	5MC	A	639	1	-	0/7/25/26	0/2/2/2
1	5MC	A	107	1	-	0/7/25/26	0/2/2/2
1	5MC	A	289	1	-	0/7/25/26	0/2/2/2
1	5MC	A	598	1	-	0/7/25/26	0/2/2/2
1	5MC	A	667	1	-	0/7/25/26	0/2/2/2
1	5MC	B	225	1	-	0/7/25/26	0/2/2/2
1	5MC	B	674	1	-	4/7/25/26	0/2/2/2
1	5MC	B	218	1	-	0/7/25/26	0/2/2/2
1	5MC	B	214	1	-	0/7/25/26	0/2/2/2
1	5MC	A	282	1	-	1/7/25/26	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	5MC	A	696	1	-	0/7/25/26	0/2/2/2
1	5MC	A	398	1	-	0/7/25/26	0/2/2/2
1	5MC	B	289	1	-	0/7/25/26	0/2/2/2
1	5MC	A	119	1	-	5/7/25/26	0/2/2/2
1	5MC	A	575	1	-	0/7/25/26	0/2/2/2
1	5MC	A	71	1	-	0/7/25/26	0/2/2/2
1	5MC	B	213	1	-	0/7/25/26	0/2/2/2
1	5MC	B	173	1	-	6/7/25/26	0/2/2/2
1	5MC	A	545	1	-	0/7/25/26	0/2/2/2
1	5MC	B	188	1	-	0/7/25/26	0/2/2/2
1	5MC	B	37	1	-	0/7/25/26	0/2/2/2
1	5MC	A	566	1	-	0/7/25/26	0/2/2/2
1	5MC	B	276	1	-	0/7/25/26	0/2/2/2
1	5MC	B	624	1	-	0/7/25/26	0/2/2/2
1	5MC	B	616	1	-	0/7/25/26	0/2/2/2
1	5MC	A	450	1	-	0/7/25/26	0/2/2/2
1	5MC	B	71	1	-	0/7/25/26	0/2/2/2
1	5MC	B	375	1	-	0/7/25/26	0/2/2/2
1	5MC	B	169	1	-	0/7/25/26	0/2/2/2
1	5MC	A	652	1	-	0/7/25/26	0/2/2/2
1	5MC	A	677	1	-	0/7/25/26	0/2/2/2
1	5MC	A	447	1	-	0/7/25/26	0/2/2/2
1	5MC	A	159	1	-	0/7/25/26	0/2/2/2
1	5MC	A	620	1	-	5/7/25/26	0/2/2/2
1	5MC	B	487	1	-	0/7/25/26	0/2/2/2
1	5MC	A	244	1	-	0/7/25/26	0/2/2/2
1	5MC	A	530	1	-	1/7/25/26	0/2/2/2
1	5MC	B	608	1	-	0/7/25/26	0/2/2/2
1	5MC	B	133	1	-	0/7/25/26	0/2/2/2
1	5MC	B	416	1	-	1/7/25/26	0/2/2/2
1	5MC	B	8	1	-	0/7/25/26	0/2/2/2
1	5MC	B	105	1	-	0/7/25/26	0/2/2/2
1	5MC	B	155	1	-	0/7/25/26	0/2/2/2
1	5MC	A	363	1	-	0/7/25/26	0/2/2/2
1	5MC	A	644	1	-	0/7/25/26	0/2/2/2
1	5MC	A	446	1	-	0/7/25/26	0/2/2/2
1	5MC	A	524	1	-	0/7/25/26	0/2/2/2
1	5MC	B	158	1	-	2/7/25/26	0/2/2/2
1	5MC	A	613	1	-	0/7/25/26	0/2/2/2
1	5MC	A	327	1	-	2/7/25/26	0/2/2/2
1	5MC	B	669	1	-	0/7/25/26	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	5MC	A	84	1	-	0/7/25/26	0/2/2/2
1	5MC	A	29	1	-	2/7/25/26	0/2/2/2
1	5MC	A	36	1	-	0/7/25/26	0/2/2/2
1	5MC	A	18	1	-	0/7/25/26	0/2/2/2
1	5MC	A	676	1	-	2/7/25/26	0/2/2/2
1	5MC	B	233	1	-	0/7/25/26	0/2/2/2
1	5MC	B	184	1	-	2/7/25/26	0/2/2/2
1	5MC	A	401	1	-	0/7/25/26	0/2/2/2
1	5MC	B	279	1	-	2/7/25/26	0/2/2/2
1	5MC	A	148	1	-	1/7/25/26	0/2/2/2
1	5MC	A	616	1	-	0/7/25/26	0/2/2/2
1	5MC	A	503	1	-	0/7/25/26	0/2/2/2
1	5MC	B	121	1	-	0/7/25/26	0/2/2/2
1	5MC	A	15	1	-	2/7/25/26	0/2/2/2
1	5MC	A	486	1	-	0/7/25/26	0/2/2/2
1	5MC	B	67	1	-	1/7/25/26	0/2/2/2
1	5MC	B	5	1	-	0/7/25/26	0/2/2/2
1	5MC	A	32	1	-	0/7/25/26	0/2/2/2
1	5MC	B	639	1	-	0/7/25/26	0/2/2/2
1	5MC	B	598	1	-	0/7/25/26	0/2/2/2
1	5MC	A	377	1	-	0/7/25/26	0/2/2/2
1	5MC	B	123	1	-	0/7/25/26	0/2/2/2
1	5MC	B	477	1	-	0/7/25/26	0/2/2/2
1	5MC	B	282	1	-	0/7/25/26	0/2/2/2
1	5MC	A	688	1	-	0/7/25/26	0/2/2/2
1	5MC	B	119	1	-	4/7/25/26	0/2/2/2
1	5MC	A	266	1	-	0/7/25/26	0/2/2/2
1	5MC	A	340	1	-	0/7/25/26	0/2/2/2
1	5MC	A	151	1	-	0/7/25/26	0/2/2/2
1	5MC	A	658	1	-	2/7/25/26	0/2/2/2
1	5MC	B	545	1	-	0/7/25/26	0/2/2/2
1	5MC	B	438	1	-	0/7/25/26	0/2/2/2
1	5MC	B	511	1	-	0/7/25/26	0/2/2/2
1	5MC	B	566	1	-	6/7/25/26	0/2/2/2
1	5MC	B	10	1	-	0/7/25/26	0/2/2/2
1	5MC	B	593	1	-	1/7/25/26	0/2/2/2
1	5MC	A	477	1	-	0/7/25/26	0/2/2/2
1	5MC	B	345	1	-	0/7/25/26	0/2/2/2
1	5MC	B	73	1	-	0/7/25/26	0/2/2/2
1	5MC	A	423	1	-	0/7/25/26	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	5MC	A	468	1	-	0/7/25/26	0/2/2/2
1	5MC	B	652	1	-	0/7/25/26	0/2/2/2
1	5MC	B	17	1	-	2/7/25/26	0/2/2/2
1	5MC	A	200	1	-	4/7/25/26	0/2/2/2
1	5MC	B	613	1	-	0/7/25/26	0/2/2/2
1	5MC	A	189	1	-	0/7/25/26	0/2/2/2
1	5MC	B	107	1	-	0/7/25/26	0/2/2/2
1	5MC	A	314	1	-	2/7/25/26	0/2/2/2
1	5MC	B	677	1	-	1/7/25/26	0/2/2/2
1	5MC	B	447	1	-	0/7/25/26	0/2/2/2
1	5MC	B	697	1	-	0/7/25/26	0/2/2/2
1	5MC	B	159	1	-	0/7/25/26	0/2/2/2
1	5MC	A	146	1	-	4/7/25/26	0/2/2/2
1	5MC	A	687	1	-	0/7/25/26	0/2/2/2
1	5MC	A	555	1	-	0/7/25/26	0/2/2/2
1	5MC	B	547	1	-	0/7/25/26	0/2/2/2
1	5MC	A	86	1	-	0/7/25/26	0/2/2/2
1	5MC	B	146	1	-	4/7/25/26	0/2/2/2
1	5MC	B	300	1	-	0/7/25/26	0/2/2/2
1	5MC	B	727	1	-	0/7/25/26	0/2/2/2
1	5MC	A	472	1	-	0/7/25/26	0/2/2/2
1	5MC	B	86	1	-	0/7/25/26	0/2/2/2
1	5MC	A	72	1	-	0/7/25/26	0/2/2/2
1	5MC	B	446	1	-	1/7/25/26	0/2/2/2
1	5MC	A	410	1	-	0/7/25/26	0/2/2/2
1	5MC	B	244	1	-	0/7/25/26	0/2/2/2
1	5MC	B	92	1	-	4/7/25/26	0/2/2/2

There are no bond length outliers.

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	78	5MC	O2-C2-N3	-2.70	118.07	122.33
1	B	75	5MC	C5-C6-N1	-2.68	120.40	123.31
1	B	78	5MC	CM5-C5-C6	-2.63	119.29	122.85
1	B	78	5MC	C5-C6-N1	-2.41	120.69	123.31
1	B	75	5MC	CM5-C5-C6	-2.39	119.62	122.85
1	B	75	5MC	O2-C2-N3	-2.29	118.73	122.33
1	B	78	5MC	CM5-C5-C4	2.08	123.93	120.51

There are no chirality outliers.

All (191) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	65	5MC	C2'-C1'-N1-C2
1	A	65	5MC	C2'-C1'-N1-C6
1	B	65	5MC	C2'-C1'-N1-C2
1	B	65	5MC	C2'-C1'-N1-C6
1	A	92	5MC	C2'-C1'-N1-C2
1	A	92	5MC	C2'-C1'-N1-C6
1	B	92	5MC	C2'-C1'-N1-C2
1	B	92	5MC	C2'-C1'-N1-C6
1	A	119	5MC	C2'-C1'-N1-C2
1	A	119	5MC	C2'-C1'-N1-C6
1	B	119	5MC	C2'-C1'-N1-C2
1	B	119	5MC	C2'-C1'-N1-C6
1	A	146	5MC	C2'-C1'-N1-C2
1	A	146	5MC	C2'-C1'-N1-C6
1	B	146	5MC	C2'-C1'-N1-C2
1	B	146	5MC	C2'-C1'-N1-C6
1	A	173	5MC	C2'-C1'-N1-C2
1	A	173	5MC	C2'-C1'-N1-C6
1	B	173	5MC	C2'-C1'-N1-C2
1	B	173	5MC	C2'-C1'-N1-C6
1	A	200	5MC	C2'-C1'-N1-C2
1	A	200	5MC	C2'-C1'-N1-C6
1	B	200	5MC	C2'-C1'-N1-C2
1	B	200	5MC	C2'-C1'-N1-C6
1	A	482	5MC	O4'-C4'-C5'-O5'
1	B	482	5MC	O4'-C4'-C5'-O5'
1	A	483	5MC	O4'-C4'-C5'-O5'
1	B	566	5MC	C2'-C1'-N1-C2
1	B	566	5MC	C2'-C1'-N1-C6
1	A	620	5MC	C2'-C1'-N1-C2
1	A	620	5MC	C2'-C1'-N1-C6
1	B	620	5MC	C2'-C1'-N1-C2
1	B	620	5MC	C2'-C1'-N1-C6
1	A	647	5MC	C2'-C1'-N1-C2
1	A	647	5MC	C2'-C1'-N1-C6
1	B	647	5MC	C2'-C1'-N1-C2
1	B	647	5MC	C2'-C1'-N1-C6
1	A	658	5MC	O4'-C4'-C5'-O5'
1	A	674	5MC	C2'-C1'-N1-C2
1	A	674	5MC	C2'-C1'-N1-C6
1	B	674	5MC	C2'-C1'-N1-C2
1	B	674	5MC	C2'-C1'-N1-C6

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Mol	Chain	Res	Type	Atoms
1	A	676	5MC	O4'-C4'-C5'-O5'
1	B	676	5MC	O4'-C4'-C5'-O5'
1	A	685	5MC	O4'-C4'-C5'-O5'
1	B	685	5MC	O4'-C4'-C5'-O5'
1	A	701	5MC	C2'-C1'-N1-C2
1	A	701	5MC	C2'-C1'-N1-C6
1	B	701	5MC	C2'-C1'-N1-C2
1	B	701	5MC	C2'-C1'-N1-C6
1	A	29	5MC	O4'-C4'-C5'-O5'
1	A	279	5MC	O4'-C4'-C5'-O5'
1	B	279	5MC	O4'-C4'-C5'-O5'
1	A	347	5MC	O4'-C4'-C5'-O5'
1	B	347	5MC	O4'-C4'-C5'-O5'
1	B	553	5MC	O4'-C4'-C5'-O5'
1	B	658	5MC	O4'-C4'-C5'-O5'
1	B	29	5MC	O4'-C4'-C5'-O5'
1	A	75	5MC	O4'-C4'-C5'-O5'
1	A	313	5MC	O4'-C4'-C5'-O5'
1	A	314	5MC	O4'-C4'-C5'-O5'
1	B	314	5MC	O4'-C4'-C5'-O5'
1	B	381	5MC	O4'-C4'-C5'-O5'
1	A	449	5MC	O4'-C4'-C5'-O5'
1	B	685	5MC	C3'-C4'-C5'-O5'
1	A	158	5MC	O4'-C4'-C5'-O5'
1	A	482	5MC	C3'-C4'-C5'-O5'
1	B	482	5MC	C3'-C4'-C5'-O5'
1	A	483	5MC	C3'-C4'-C5'-O5'
1	A	658	5MC	C3'-C4'-C5'-O5'
1	A	685	5MC	C3'-C4'-C5'-O5'
1	A	15	5MC	C3'-C4'-C5'-O5'
1	B	17	5MC	C3'-C4'-C5'-O5'
1	A	279	5MC	C3'-C4'-C5'-O5'
1	A	347	5MC	C3'-C4'-C5'-O5'
1	B	347	5MC	C3'-C4'-C5'-O5'
1	B	449	5MC	O4'-C4'-C5'-O5'
1	B	658	5MC	C3'-C4'-C5'-O5'
1	A	676	5MC	C3'-C4'-C5'-O5'
1	B	676	5MC	C3'-C4'-C5'-O5'
1	B	279	5MC	C3'-C4'-C5'-O5'
1	B	483	5MC	O4'-C4'-C5'-O5'
1	A	553	5MC	O4'-C4'-C5'-O5'
1	B	553	5MC	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
1	A	15	5MC	O4'-C4'-C5'-O5'
1	B	17	5MC	O4'-C4'-C5'-O5'
1	A	29	5MC	C3'-C4'-C5'-O5'
1	B	65	5MC	O4'-C4'-C5'-O5'
1	B	158	5MC	O4'-C4'-C5'-O5'
1	A	413	5MC	O4'-C4'-C5'-O5'
1	B	184	5MC	O4'-C4'-C5'-O5'
1	A	449	5MC	C3'-C4'-C5'-O5'
1	B	29	5MC	C3'-C4'-C5'-O5'
1	B	313	5MC	O4'-C4'-C5'-O5'
1	B	314	5MC	C3'-C4'-C5'-O5'
1	A	327	5MC	O4'-C4'-C5'-O5'
1	B	327	5MC	O4'-C4'-C5'-O5'
1	B	413	5MC	O4'-C4'-C5'-O5'
1	B	65	5MC	C3'-C4'-C5'-O5'
1	A	75	5MC	C3'-C4'-C5'-O5'
1	B	381	5MC	C3'-C4'-C5'-O5'
1	A	553	5MC	C3'-C4'-C5'-O5'
1	A	314	5MC	C3'-C4'-C5'-O5'
1	A	173	5MC	O4'-C4'-C5'-O5'
1	B	449	5MC	C3'-C4'-C5'-O5'
1	B	173	5MC	O4'-C4'-C5'-O5'
1	B	486	5MC	O4'-C4'-C5'-O5'
1	B	530	5MC	O4'-C4'-C5'-O5'
1	A	313	5MC	C3'-C4'-C5'-O5'
1	B	67	5MC	C4'-C5'-O5'-P
1	B	148	5MC	C4'-C5'-O5'-P
1	A	381	5MC	C4'-C5'-O5'-P
1	A	483	5MC	C4'-C5'-O5'-P
1	A	65	5MC	O4'-C1'-N1-C6
1	B	65	5MC	O4'-C1'-N1-C6
1	A	92	5MC	O4'-C1'-N1-C6
1	B	92	5MC	O4'-C1'-N1-C6
1	A	119	5MC	O4'-C1'-N1-C6
1	B	119	5MC	O4'-C1'-N1-C6
1	A	146	5MC	O4'-C1'-N1-C6
1	B	146	5MC	O4'-C1'-N1-C6
1	A	173	5MC	O4'-C1'-N1-C6
1	B	173	5MC	O4'-C1'-N1-C6
1	A	200	5MC	O4'-C1'-N1-C6
1	B	200	5MC	O4'-C1'-N1-C6
1	B	566	5MC	O4'-C1'-N1-C6

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Mol	Chain	Res	Type	Atoms
1	A	620	5MC	O4'-C1'-N1-C6
1	B	620	5MC	O4'-C1'-N1-C6
1	A	647	5MC	O4'-C1'-N1-C6
1	B	647	5MC	O4'-C1'-N1-C6
1	A	674	5MC	O4'-C1'-N1-C6
1	B	674	5MC	O4'-C1'-N1-C6
1	A	701	5MC	O4'-C1'-N1-C6
1	B	701	5MC	O4'-C1'-N1-C6
1	A	148	5MC	C4'-C5'-O5'-P
1	B	483	5MC	C4'-C5'-O5'-P
1	A	67	5MC	C4'-C5'-O5'-P
1	B	75	5MC	O4'-C4'-C5'-O5'
1	A	158	5MC	C3'-C4'-C5'-O5'
1	A	173	5MC	C3'-C4'-C5'-O5'
1	A	365	5MC	O4'-C4'-C5'-O5'
1	B	446	5MC	O4'-C4'-C5'-O5'
1	B	483	5MC	C3'-C4'-C5'-O5'
1	A	530	5MC	O4'-C4'-C5'-O5'
1	B	566	5MC	O4'-C4'-C5'-O5'
1	A	119	5MC	O4'-C4'-C5'-O5'
1	B	677	5MC	O4'-C4'-C5'-O5'
1	B	690	5MC	O4'-C4'-C5'-O5'
1	A	701	5MC	O4'-C4'-C5'-O5'
1	B	726	5MC	O4'-C4'-C5'-O5'
1	B	566	5MC	O4'-C1'-N1-C2
1	A	620	5MC	O4'-C1'-N1-C2
1	B	656	5MC	O4'-C4'-C5'-O5'
1	A	17	5MC	C3'-C4'-C5'-O5'
1	A	65	5MC	O4'-C4'-C5'-O5'
1	B	75	5MC	C3'-C4'-C5'-O5'
1	A	105	5MC	O4'-C4'-C5'-O5'
1	A	282	5MC	O4'-C4'-C5'-O5'
1	B	593	5MC	O4'-C4'-C5'-O5'
1	A	620	5MC	O4'-C4'-C5'-O5'
1	B	65	5MC	O4'-C1'-N1-C2
1	B	92	5MC	O4'-C1'-N1-C2
1	A	65	5MC	O4'-C1'-N1-C2
1	A	92	5MC	O4'-C1'-N1-C2
1	A	119	5MC	O4'-C1'-N1-C2
1	B	119	5MC	O4'-C1'-N1-C2
1	A	146	5MC	O4'-C1'-N1-C2
1	B	146	5MC	O4'-C1'-N1-C2

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Mol	Chain	Res	Type	Atoms
1	B	173	5MC	O4'-C1'-N1-C2
1	A	200	5MC	O4'-C1'-N1-C2
1	B	200	5MC	O4'-C1'-N1-C2
1	B	620	5MC	O4'-C1'-N1-C2
1	A	647	5MC	O4'-C1'-N1-C2
1	B	647	5MC	O4'-C1'-N1-C2
1	A	674	5MC	O4'-C1'-N1-C2
1	B	674	5MC	O4'-C1'-N1-C2
1	A	701	5MC	O4'-C1'-N1-C2
1	B	701	5MC	O4'-C1'-N1-C2
1	B	158	5MC	C3'-C4'-C5'-O5'
1	B	173	5MC	C3'-C4'-C5'-O5'
1	A	173	5MC	O4'-C1'-N1-C2
1	B	184	5MC	C3'-C4'-C5'-O5'
1	B	327	5MC	C3'-C4'-C5'-O5'
1	A	413	5MC	C3'-C4'-C5'-O5'
1	B	416	5MC	O4'-C4'-C5'-O5'
1	B	313	5MC	C3'-C4'-C5'-O5'
1	A	327	5MC	C3'-C4'-C5'-O5'
1	B	413	5MC	C3'-C4'-C5'-O5'
1	B	566	5MC	C3'-C4'-C5'-O5'
1	B	365	5MC	O4'-C4'-C5'-O5'
1	B	450	5MC	O4'-C4'-C5'-O5'

There are no ring outliers.

40 monomers are involved in 44 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	B	15	5MC	2	0
1	A	431	5MC	1	0
1	B	484	5MC	1	0
1	B	347	5MC	1	0
1	B	148	5MC	1	0
1	A	659	5MC	1	0
1	A	276	5MC	1	0
1	B	431	5MC	1	0
1	B	465	5MC	1	0
1	A	583	5MC	1	0
1	A	310	5MC	1	0
1	B	180	5MC	1	0
1	A	382	5MC	1	0
1	A	465	5MC	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	B	142	5MC	1	0
1	A	347	5MC	1	0
1	B	555	5MC	2	0
1	A	484	5MC	2	0
1	A	128	5MC	1	0
1	A	381	5MC	1	0
1	B	327	5MC	1	0
1	A	169	5MC	1	0
1	A	608	5MC	1	0
1	B	482	5MC	1	0
1	B	696	5MC	1	0
1	A	212	5MC	1	0
1	A	67	5MC	1	0
1	B	225	5MC	1	0
1	A	696	5MC	1	0
1	A	545	5MC	1	0
1	B	276	5MC	1	0
1	A	530	5MC	1	0
1	A	446	5MC	1	0
1	B	158	5MC	1	0
1	A	327	5MC	1	0
1	B	121	5MC	1	0
1	B	67	5MC	1	0
1	A	32	5MC	1	0
1	A	658	5MC	1	0
1	A	555	5MC	2	0

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 ⓘ

There are no chain breaks in this entry.

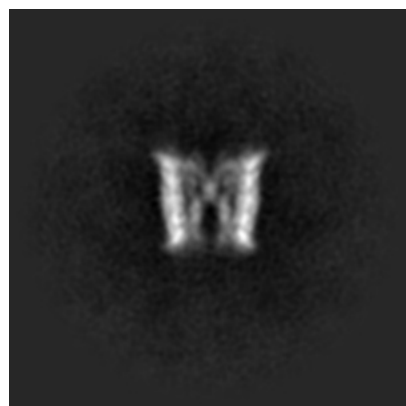
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-74032. These allow visual inspection of the internal detail of the map and identification of artifacts.

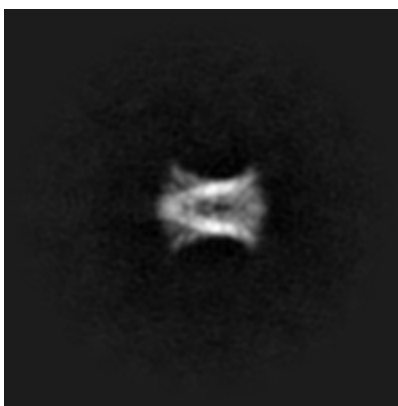
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

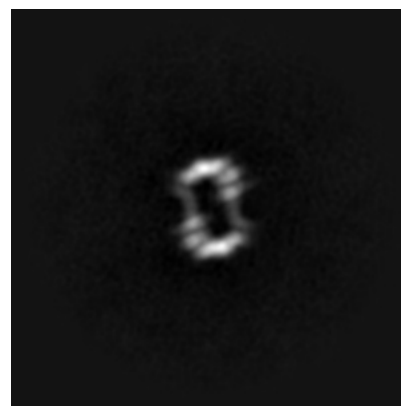
6.1.1 Primary map



X

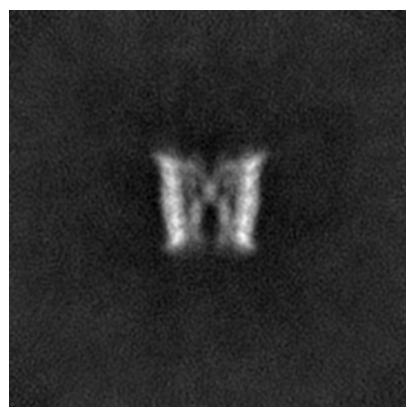


Y

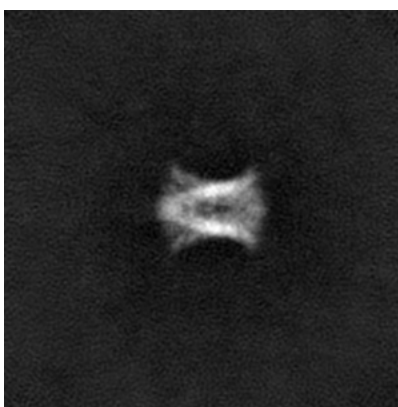


Z

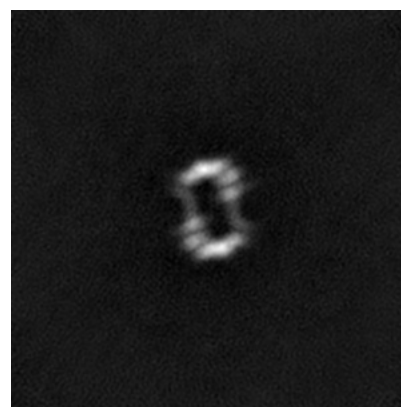
6.1.2 Raw map



X



Y

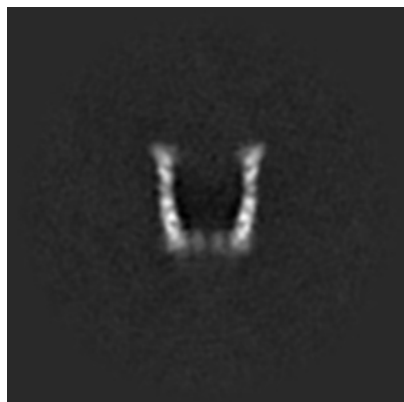


Z

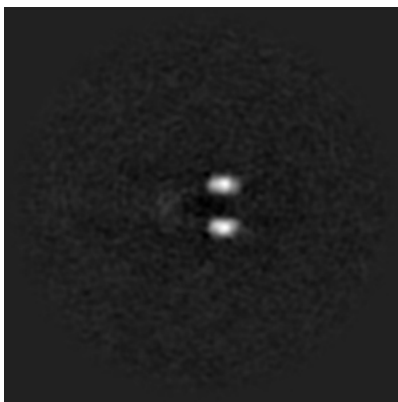
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

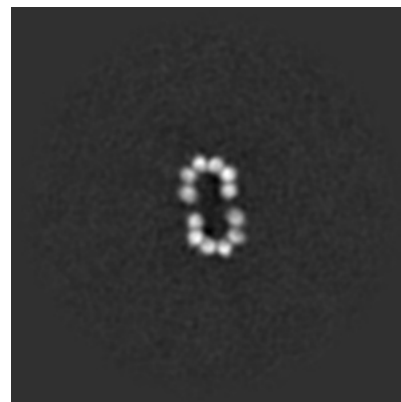
6.2.1 Primary map



X Index: 90

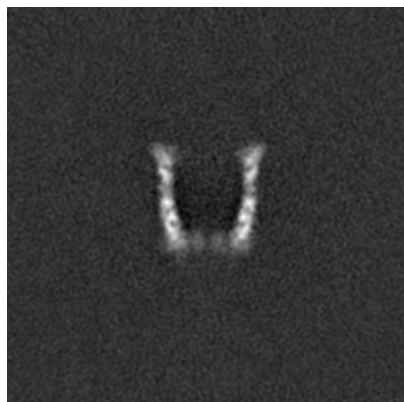


Y Index: 90

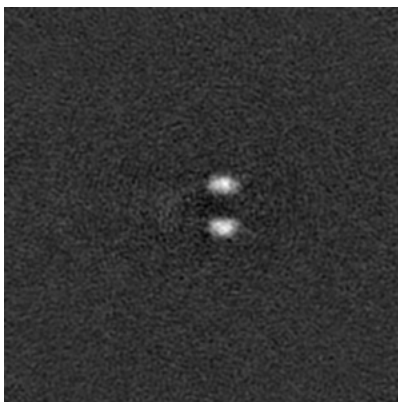


Z Index: 90

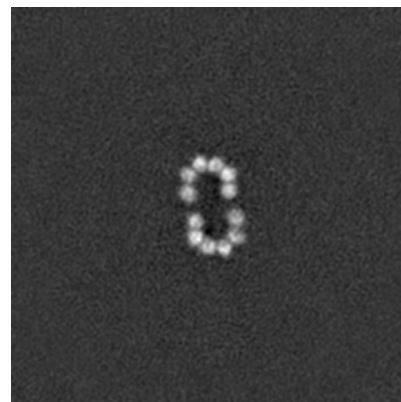
6.2.2 Raw map



X Index: 90



Y Index: 90



Z Index: 90

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: 81



Y Index: 107



Z Index: 93

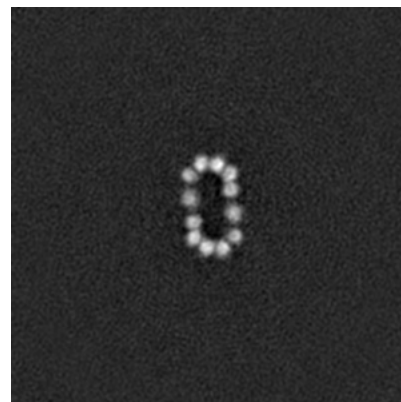
6.3.2 Raw map



X Index: 81



Y Index: 107

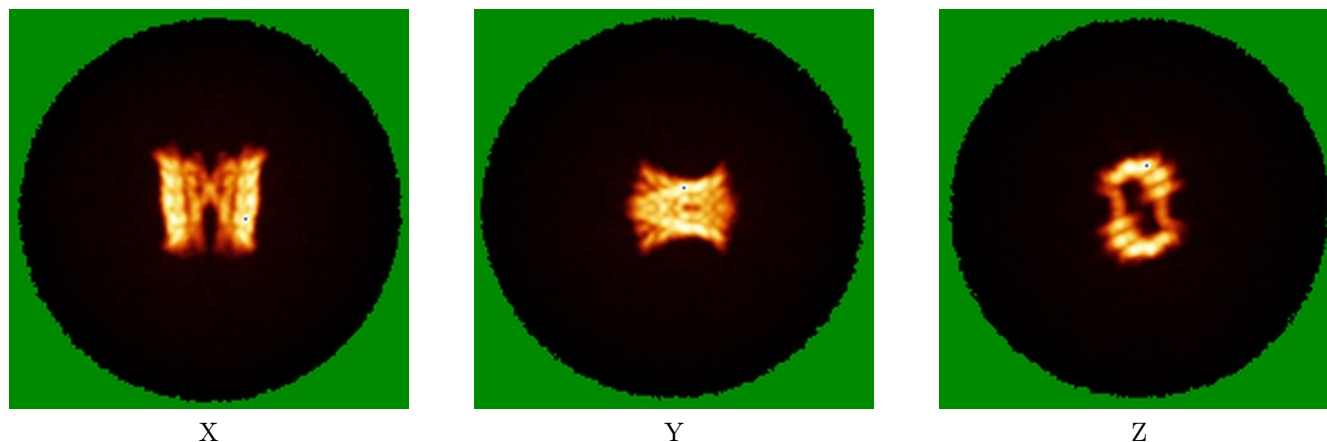


Z Index: 93

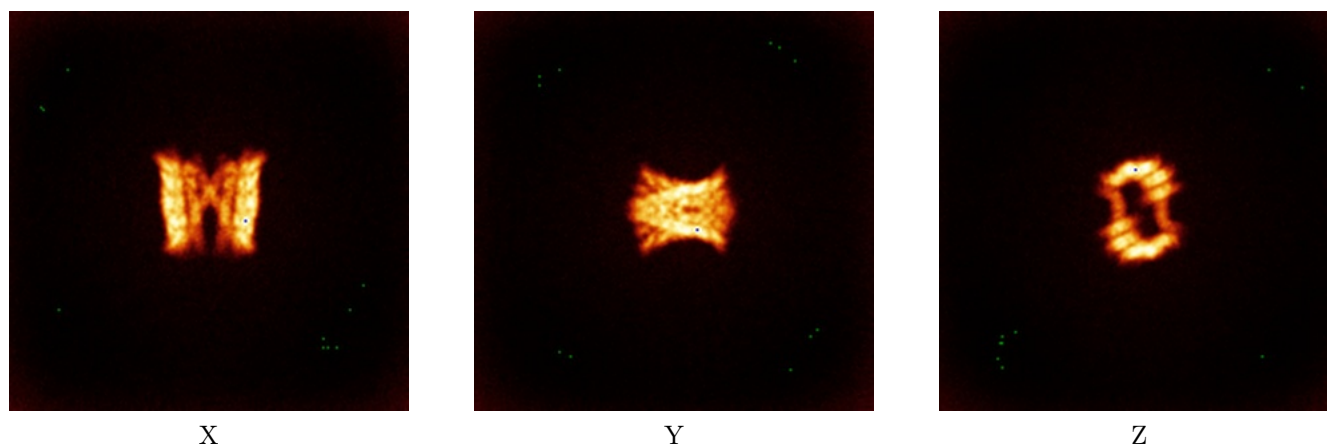
The images above show the largest variance slices of the map in three orthogonal directions.

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

6.4.1 Primary map



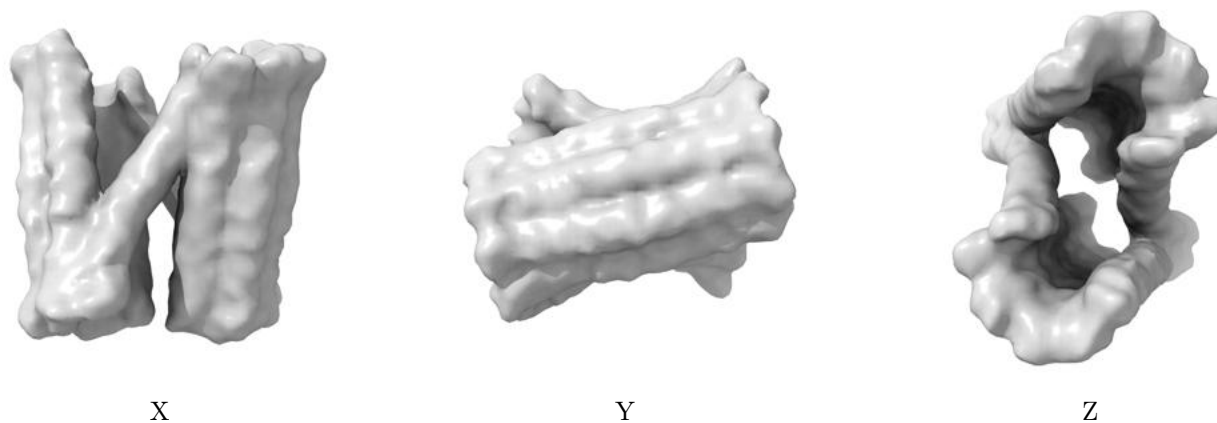
6.4.2 Raw map



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.

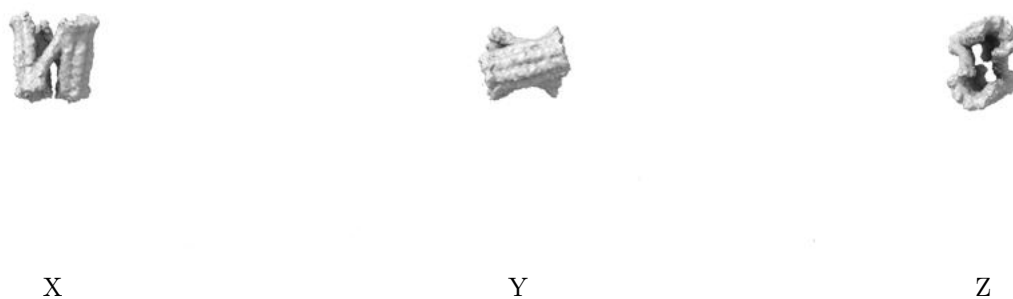
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.7. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

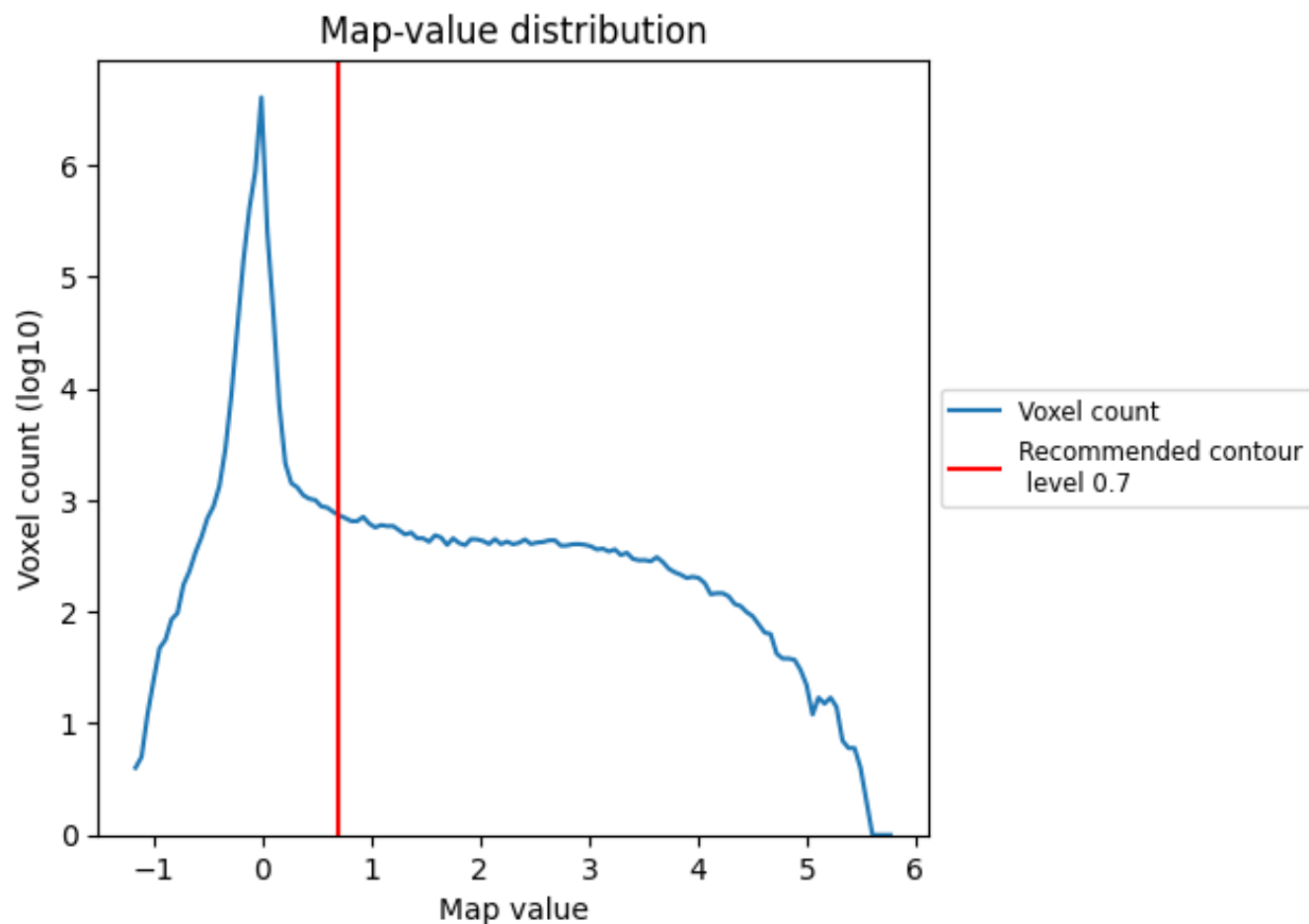
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

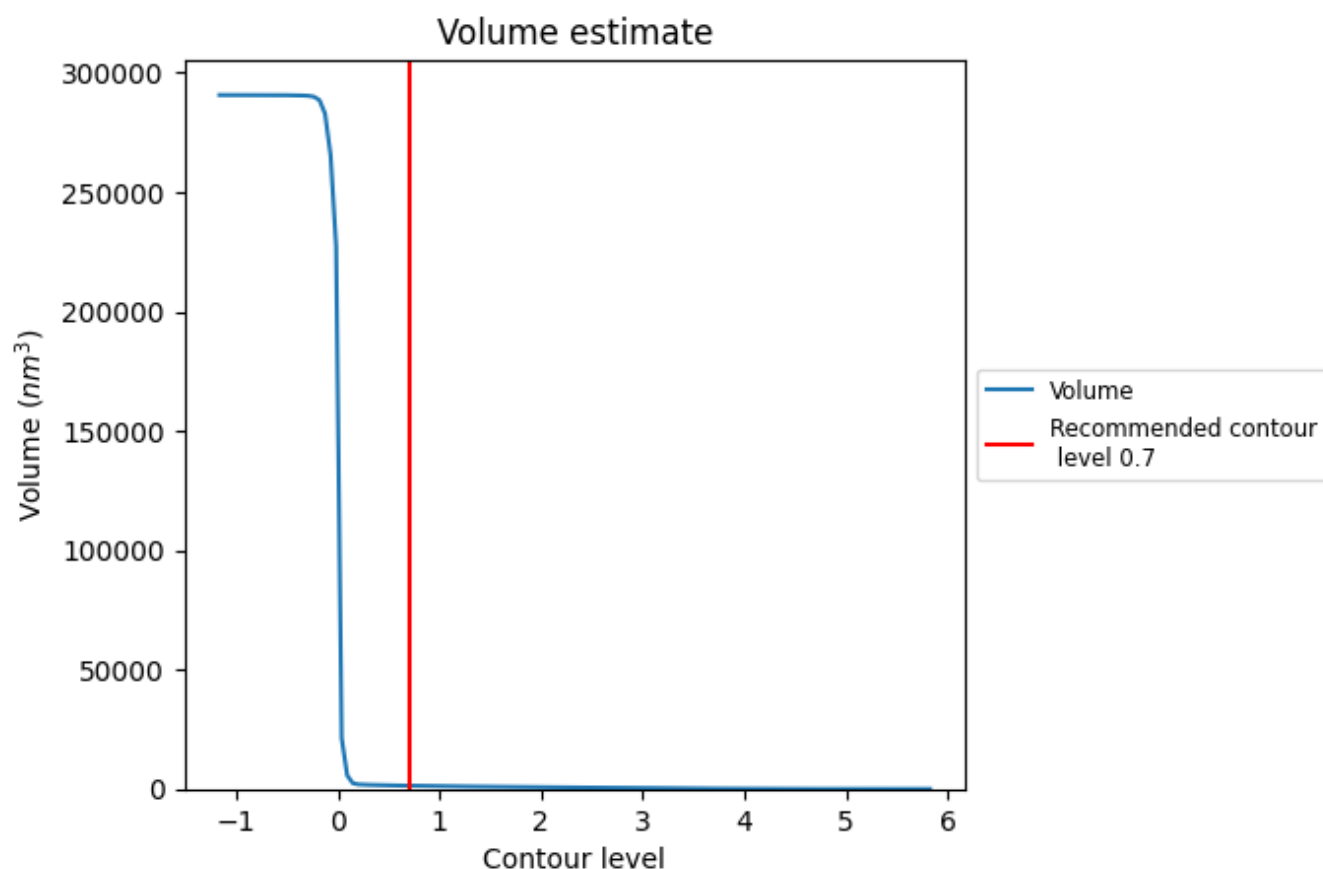
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

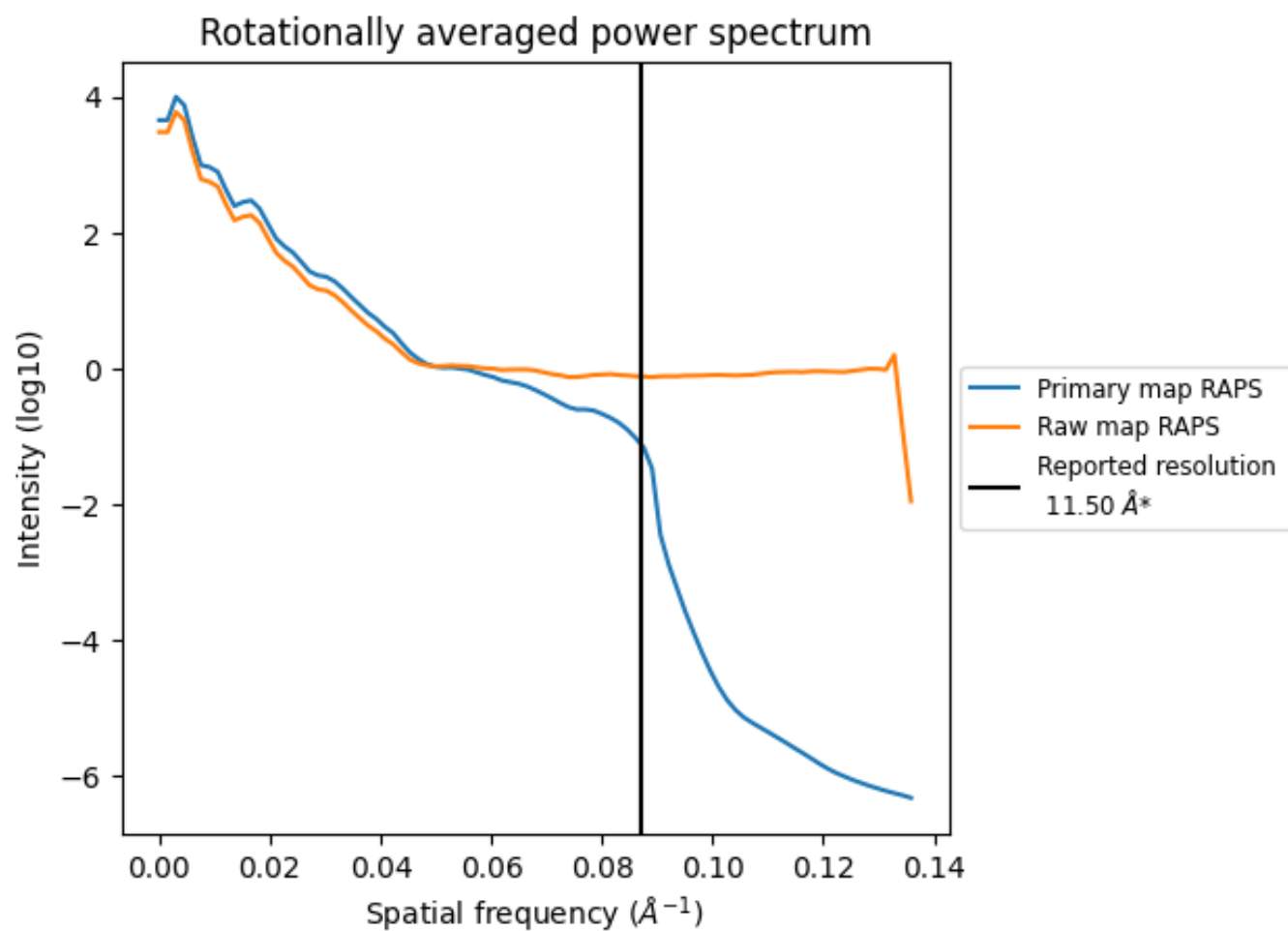
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1366 nm³; this corresponds to an approximate mass of 1234 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum ⓘ

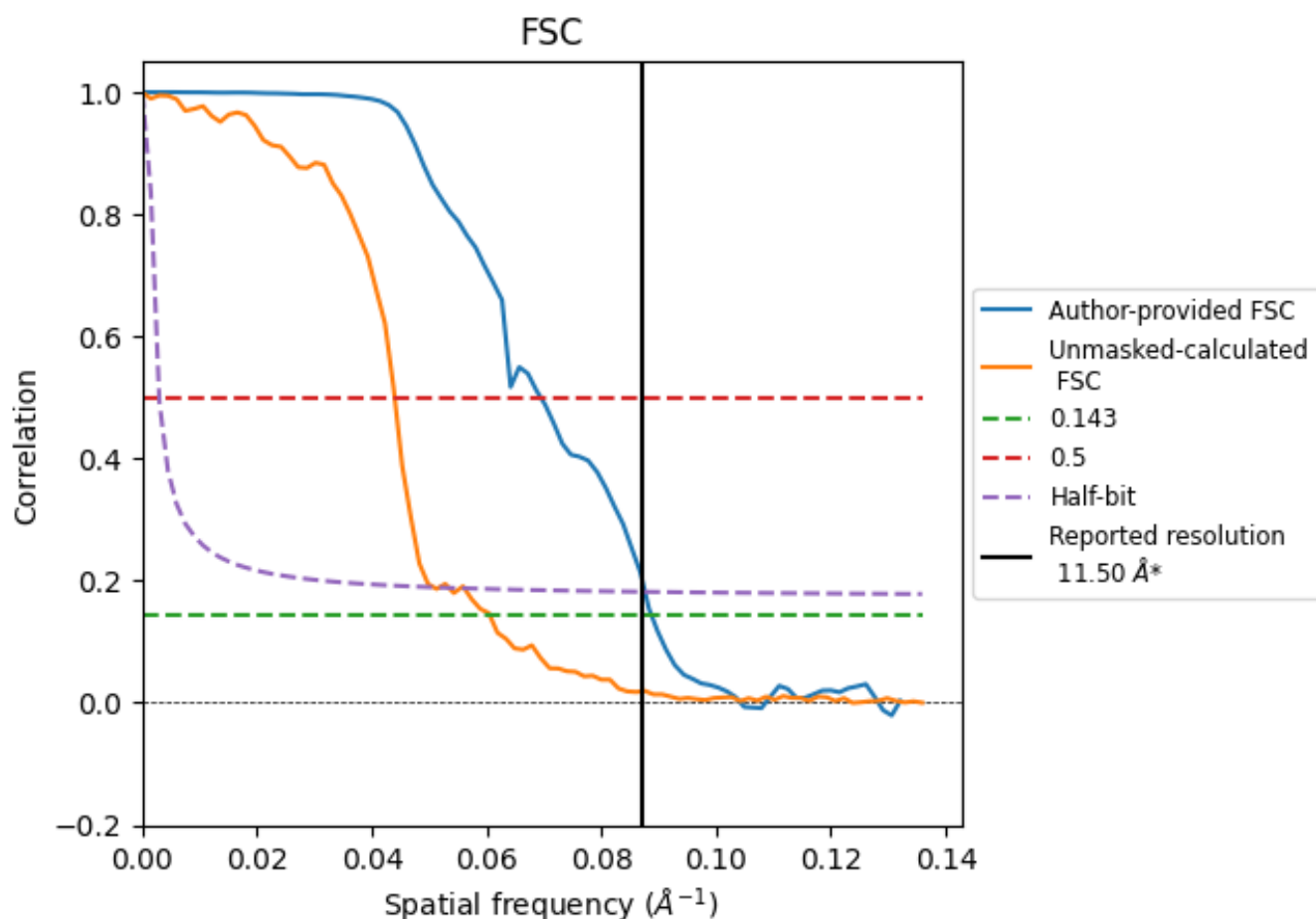


*Reported resolution corresponds to spatial frequency of 0.087 $\text{\AA}^{-1}$

8 Fourier-Shell correlation [i](#)

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

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.087 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

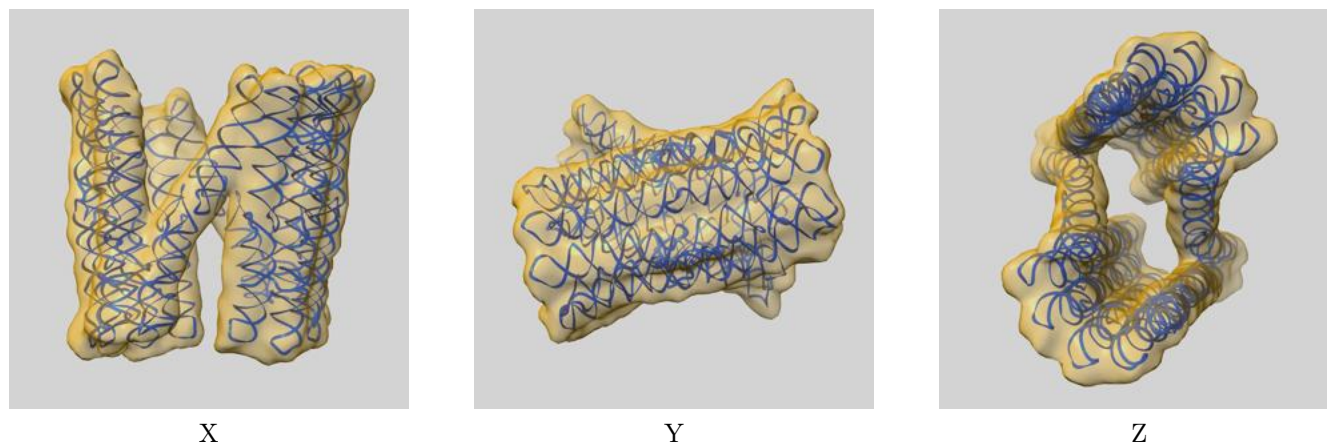
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	11.50	-	-
Author-provided FSC curve	11.26	14.41	11.42
Unmasked-calculated*	16.50	22.73	19.69

*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 16.50 differs from the reported value 11.5 by more than 10 %

9 Map-model fit [i](#)

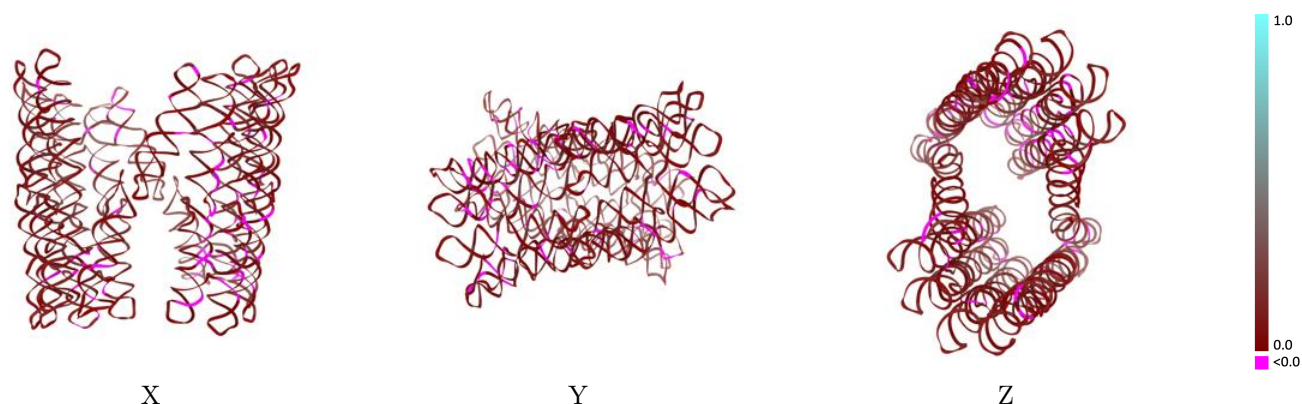
This section contains information regarding the fit between EMDB map EMD-74032 and PDB model 9ZCA. Per-residue inclusion information can be found in [section 3](#) on [page 4](#).

9.1 Map-model overlay [i](#)



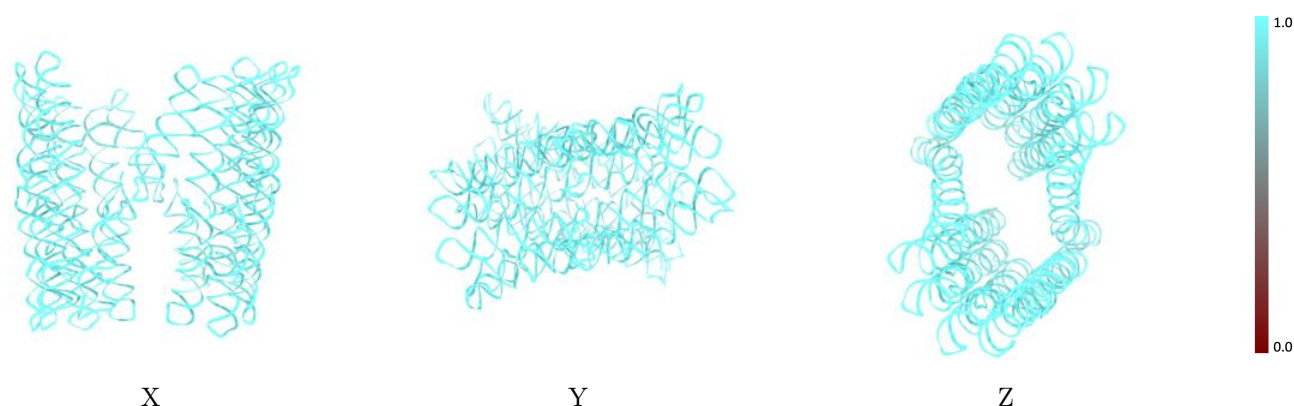
The images above show the 3D surface view of the map at the recommended contour level 0.7 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



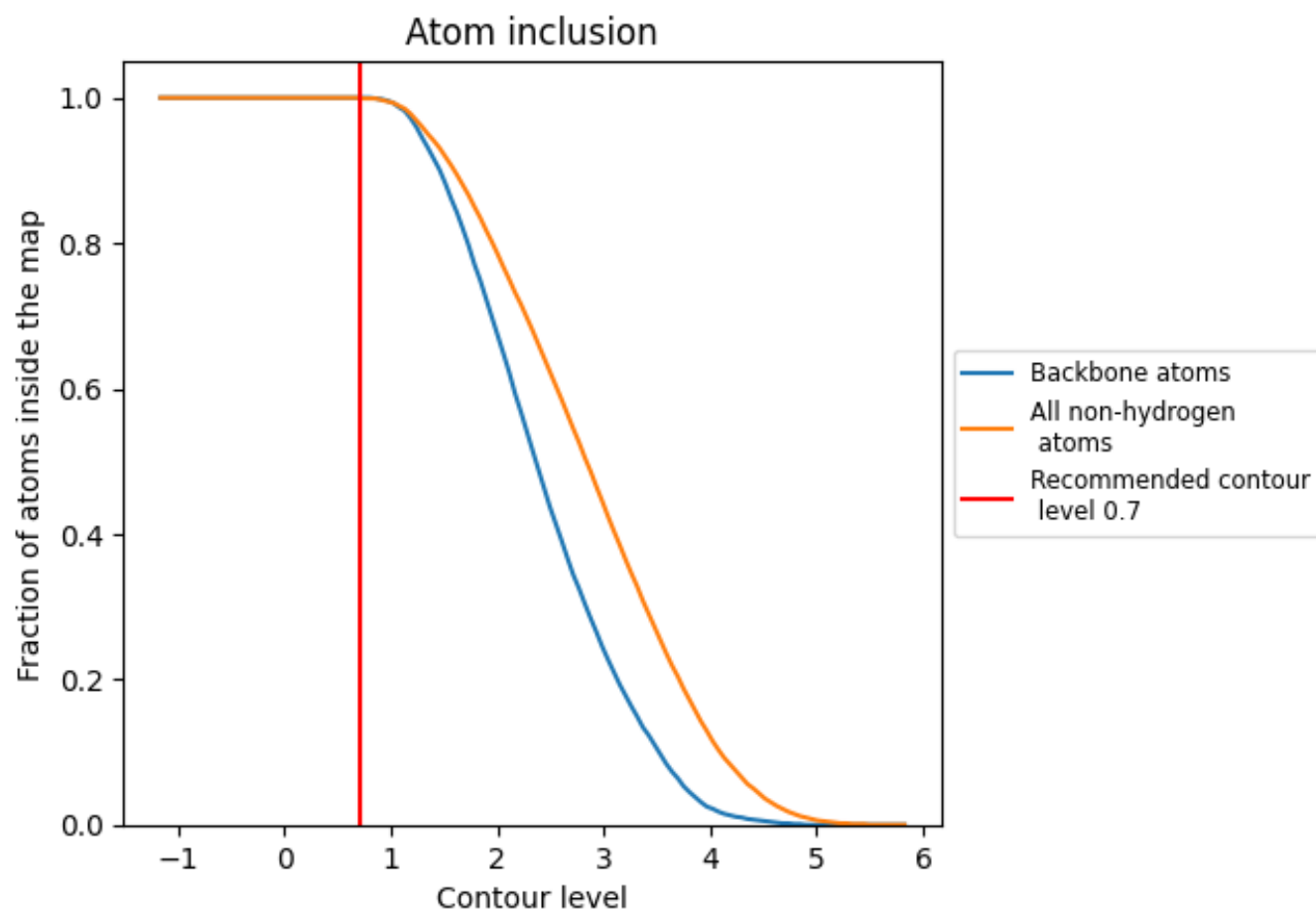
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.7).

9.4 Atom inclusion [i](#)



At the recommended contour level, 100% of all backbone atoms, 100% 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 (0.7) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	1.0000	0.0840
A	1.0000	0.0770
B	1.0000	0.0910

