



Full wwPDB X-ray Structure Validation Report ⓘ

May 28, 2020 – 09:13 pm BST

PDB ID : 1ZNO
Title : Crystal Structure of VC702 from Vibrio Cholerae, Northeast Structural Genomics Consortium Target: VcP1
Authors : Ni, S.; Forouhar, F.; Bussiere, D.E.; Robinson, H.; Kennedy, M.A.; Northeast Structural Genomics Consortium (NESG)
Deposited on : 2005-05-11
Resolution : 2.00 Å(reported)

This is a Full wwPDB X-ray Structure 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/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.11
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.11

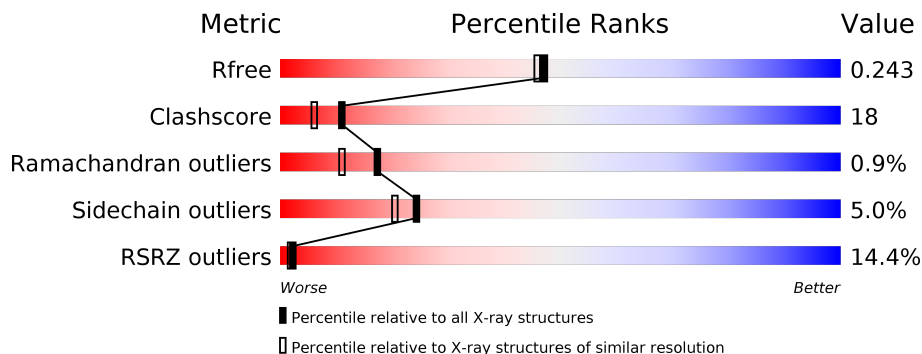
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.00 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	8085 (2.00-2.00)
Clashscore	141614	9178 (2.00-2.00)
Ramachandran outliers	138981	9054 (2.00-2.00)
Sidechain outliers	138945	9053 (2.00-2.00)
RSRZ outliers	127900	7900 (2.00-2.00)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower 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 electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	183	
1	B	183	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	MG	A	184	-	-	-	X

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 2747 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, 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 Hypothetical UPF0244 protein VC0702.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	N	O	S				Se
1	A	165	1299	819	230	244	1	5	0	0	0
1	B	165	1301	819	234	242	1	5	0	0	0

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MSE	MET	MODIFIED RESIDUE	UNP Q9KU27
A	10	MSE	MET	MODIFIED RESIDUE	UNP Q9KU27
A	55	MSE	MET	MODIFIED RESIDUE	UNP Q9KU27
A	97	MSE	MET	MODIFIED RESIDUE	UNP Q9KU27
A	114	MSE	MET	MODIFIED RESIDUE	UNP Q9KU27
A	133	MSE	MET	MODIFIED RESIDUE	UNP Q9KU27
B	1	MSE	MET	MODIFIED RESIDUE	UNP Q9KU27
B	10	MSE	MET	MODIFIED RESIDUE	UNP Q9KU27
B	55	MSE	MET	MODIFIED RESIDUE	UNP Q9KU27
B	97	MSE	MET	MODIFIED RESIDUE	UNP Q9KU27
B	114	MSE	MET	MODIFIED RESIDUE	UNP Q9KU27
B	133	MSE	MET	MODIFIED RESIDUE	UNP Q9KU27

- Molecule 2 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	B	2	Total	Mg	0	0
			2	2		
2	A	1	Total	Mg	0	0
			1	1		

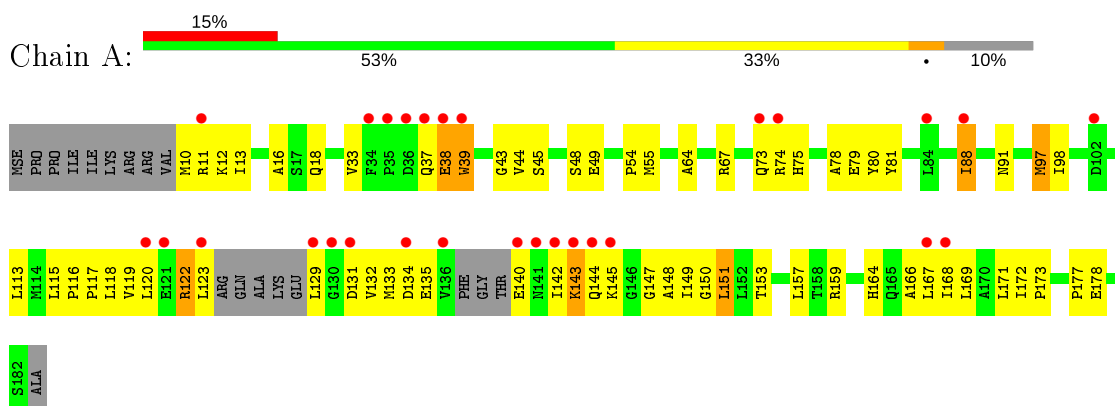
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	62	Total 62	O 62	0	0
3	B	82	Total 82	O 82	0	0

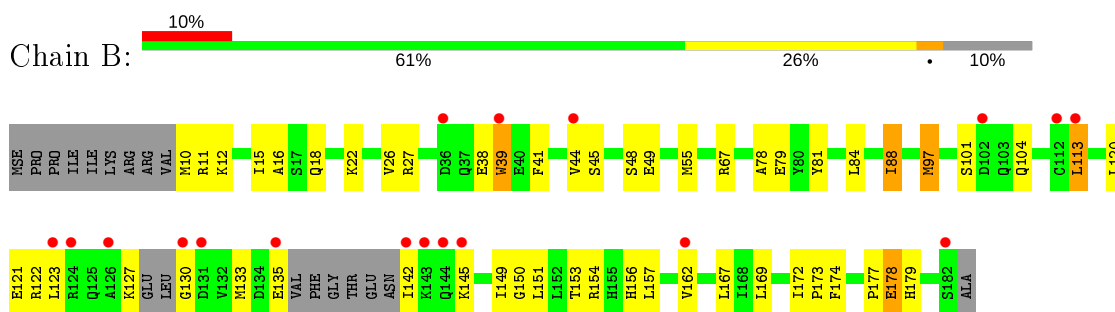
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA 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 electron 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 dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). 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: Hypothetical UPF0244 protein VC0702



- Molecule 1: Hypothetical UPF0244 protein VC0702



4 Data and refinement statistics

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants a, b, c, α , β , γ	66.61Å 88.12Å 118.36Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	30.00 – 2.00 29.39 – 2.00	Depositor EDS
% Data completeness (in resolution range)	(Not available) (30.00-2.00) 99.8 (29.39-2.00)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	5.32 (at 2.00Å)	Xtrriage
Refinement program	CNS	Depositor
R, R_{free}	0.230 , 0.263 0.246 , 0.243	Depositor DCC
R_{free} test set	1227 reflections (5.12%)	wwPDB-VP
Wilson B-factor (Å ²)	26.7	Xtrriage
Anisotropy	0.604	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 53.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	2747	wwPDB-VP
Average B, all atoms (Å ²)	34.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 13.88% of the height of the origin peak. No significant pseudotranslation is detected.*

¹ Intensities estimated from amplitudes.

² Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

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: MG

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	0.32	0/1320	0.56	0/1779
1	B	0.33	0/1322	0.57	0/1779
All	All	0.32	0/2642	0.57	0/3558

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1299	0	1291	56	0
1	B	1301	0	1298	43	0
2	A	1	0	0	0	0
2	B	2	0	0	0	0
3	A	62	0	0	0	0
3	B	82	0	0	3	2
All	All	2747	0	2589	94	2

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 18.

All (94) 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:156:HIS:HA	3:B:487:HOH:O	1.67	0.94
1:A:10:MSE:HE2	1:A:38:GLU:HB2	1.63	0.81
1:B:84:LEU:HG	1:B:97:MSE:SE	2.35	0.77
1:B:104:GLN:HG3	1:B:174:PHE:CE1	2.21	0.76
1:B:169:LEU:O	1:B:172:ILE:HD13	1.91	0.70
1:B:142:ILE:HD11	1:B:151:LEU:HB2	1.77	0.65
1:A:153:THR:HG22	1:B:172:ILE:HD11	1.79	0.64
1:B:154:ARG:HD2	3:B:455:HOH:O	1.98	0.63
1:A:11:ARG:HE	1:A:79:GLU:HB2	1.64	0.61
1:A:172:ILE:HD11	1:B:153:THR:HG22	1.83	0.61
1:A:97:MSE:C	1:A:98:ILE:HD12	2.21	0.61
1:B:169:LEU:HA	1:B:172:ILE:HD13	1.83	0.59
1:A:143:LYS:NZ	1:A:143:LYS:HA	2.18	0.59
1:A:167:LEU:O	1:A:171:LEU:HD13	2.03	0.59
1:B:15:ILE:CD1	1:B:26:VAL:HG11	2.34	0.58
1:B:178:GLU:H	1:B:178:GLU:CD	2.07	0.57
1:B:15:ILE:HD11	1:B:26:VAL:HG11	1.86	0.57
1:B:127:LYS:NZ	1:B:130:GLY:HA3	2.20	0.56
1:A:134:ASP:O	1:A:140:GLU:HB3	2.05	0.56
1:A:74:ARG:HB3	1:A:75:HIS:ND1	2.21	0.56
1:A:13:ILE:HG12	1:A:80:TYR:HB2	1.88	0.55
1:A:169:LEU:O	1:A:172:ILE:HG12	2.07	0.55
1:A:122:ARG:HD2	1:A:132:VAL:HG13	1.89	0.55
1:B:11:ARG:HE	1:B:79:GLU:HB2	1.72	0.54
1:A:16:ALA:HB1	1:A:67:ARG:HB3	1.89	0.53
1:B:55:MSE:SE	1:B:88:ILE:HD11	2.59	0.53
1:A:118:LEU:O	1:A:118:LEU:HD13	2.09	0.52
1:A:55:MSE:SE	1:A:88:ILE:HD11	2.59	0.51
1:A:64:ALA:CB	1:A:98:ILE:HD13	2.40	0.51
1:B:121:GLU:HG3	1:B:122:ARG:N	2.25	0.51
1:A:116:PRO:HD2	1:A:119:VAL:HG21	1.93	0.51
1:A:177:PRO:HD2	1:A:178:GLU:OE2	2.10	0.51
1:B:22:LYS:HE2	1:B:84:LEU:HD22	1.93	0.51
1:A:164:HIS:O	1:A:168:ILE:HG12	2.11	0.51
1:A:117:PRO:HD2	1:B:179:HIS:O	2.11	0.51
1:A:10:MSE:HG2	1:A:39:TRP:HA	1.92	0.50
1:A:178:GLU:H	1:A:178:GLU:CD	2.13	0.50
1:A:172:ILE:HB	1:A:173:PRO:HD3	1.94	0.50
1:A:64:ALA:HB1	1:A:98:ILE:HD13	1.94	0.50
1:B:16:ALA:HB1	1:B:67:ARG:HB3	1.94	0.49
1:A:133:MSE:HG3	1:A:143:LYS:HE3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:115:LEU:HB2	1:A:120:LEU:HD21	1.94	0.49
1:B:12:LYS:HE3	3:B:421:HOH:O	2.13	0.49
1:A:143:LYS:O	1:A:147:GLY:HA2	2.13	0.49
1:A:149:ILE:HD12	1:A:159:ARG:HA	1.95	0.49
1:B:44:VAL:HG12	1:B:45:SER:N	2.28	0.49
1:B:142:ILE:HD12	1:B:145:LYS:HD3	1.95	0.49
1:B:169:LEU:HA	1:B:172:ILE:CD1	2.43	0.48
1:A:12:LYS:HG3	1:A:78:ALA:HA	1.96	0.47
1:A:142:ILE:HG23	1:A:145:LYS:HD2	1.95	0.47
1:A:122:ARG:HD2	1:A:132:VAL:CG1	2.44	0.47
1:B:39:TRP:CD1	1:B:39:TRP:N	2.82	0.47
1:B:97:MSE:HG3	1:B:167:LEU:CD2	2.45	0.47
1:A:142:ILE:O	1:A:145:LYS:HB2	2.15	0.47
1:B:10:MSE:HE2	1:B:38:GLU:HB3	1.97	0.47
1:B:149:ILE:HD13	1:B:162:VAL:HG21	1.97	0.46
1:B:78:ALA:HB3	1:B:81:TYR:CZ	2.51	0.46
1:A:129:LEU:O	1:A:132:VAL:HG23	2.15	0.46
1:B:150:GLY:HA2	1:B:157:LEU:O	2.16	0.45
1:A:88:ILE:N	1:A:88:ILE:HD13	2.32	0.45
1:A:44:VAL:HG12	1:A:45:SER:N	2.31	0.45
1:A:54:PRO:O	1:A:88:ILE:HD13	2.17	0.45
1:B:18:GLN:NE2	1:B:45:SER:HB2	2.32	0.45
1:A:48:SER:O	1:A:49:GLU:HB2	2.17	0.44
1:B:169:LEU:CA	1:B:172:ILE:HD13	2.47	0.44
1:B:123:LEU:O	1:B:123:LEU:HD23	2.17	0.44
1:B:97:MSE:HG3	1:B:167:LEU:HD23	1.99	0.44
1:A:142:ILE:CG2	1:A:145:LYS:HD2	2.48	0.44
1:A:33:VAL:HG23	1:A:168:ILE:HD12	1.99	0.43
1:B:88:ILE:N	1:B:88:ILE:HD13	2.34	0.43
1:A:144:GLN:O	1:A:144:GLN:HG3	2.19	0.43
1:B:177:PRO:HD2	1:B:178:GLU:OE2	2.19	0.43
1:A:143:LYS:HZ2	1:A:148:ALA:N	2.17	0.43
1:B:169:LEU:C	1:B:172:ILE:HD13	2.40	0.43
1:A:123:LEU:C	1:A:129:LEU:HB2	2.39	0.42
1:A:169:LEU:HD22	1:B:113:LEU:HD12	2.01	0.42
1:A:143:LYS:HA	1:A:143:LYS:HZ3	1.85	0.42
1:A:91:ASN:HA	1:A:120:LEU:HD11	2.00	0.42
1:A:133:MSE:C	1:A:135:GLU:H	2.23	0.42
1:A:78:ALA:HB3	1:A:81:TYR:CZ	2.54	0.42
1:A:129:LEU:C	1:A:131:ASP:H	2.23	0.41
1:B:135:GLU:OE2	1:B:135:GLU:N	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:18:GLN:HG2	1:A:43:GLY:O	2.21	0.41
1:A:10:MSE:HG3	1:A:38:GLU:OE1	2.20	0.41
1:A:97:MSE:HE2	1:A:166:ALA:HB3	2.02	0.41
1:A:11:ARG:HH21	1:A:79:GLU:HB2	1.86	0.41
1:B:172:ILE:HB	1:B:173:PRO:HD3	2.03	0.41
1:A:150:GLY:HA2	1:A:157:LEU:O	2.21	0.41
1:A:48:SER:HB3	1:A:67:ARG:CZ	2.51	0.40
1:B:101:SER:OG	1:B:104:GLN:HG2	2.21	0.40
1:A:172:ILE:HD11	1:B:153:THR:CG2	2.50	0.40
1:A:151:LEU:HA	1:A:151:LEU:HD22	1.92	0.40
1:B:27:ARG:HE	1:B:41:PHE:HB2	1.85	0.40
1:B:48:SER:O	1:B:49:GLU:HB2	2.22	0.40

All (2) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:483:HOH:O	3:B:483:HOH:O[3_556]	1.25	0.95
3:B:486:HOH:O	3:B:487:HOH:O[3_556]	2.09	0.11

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 X-ray entries followed by that with respect to entries of similar resolution.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	159/183 (87%)	145 (91%)	12 (8%)	2 (1%)	12	6
1	B	159/183 (87%)	153 (96%)	5 (3%)	1 (1%)	25	19
All	All	318/366 (87%)	298 (94%)	17 (5%)	3 (1%)	17	11

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	122	ARG
1	A	37	GLN
1	B	133	MSE

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 X-ray entries followed by that with respect to entries of similar resolution.

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	141/150 (94%)	133 (94%)	8 (6%)	20	16
1	B	140/150 (93%)	134 (96%)	6 (4%)	29	26
All	All	281/300 (94%)	267 (95%)	14 (5%)	24	20

All (14) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	38	GLU
1	A	39	TRP
1	A	73	GLN
1	A	88	ILE
1	A	97	MSE
1	A	113	LEU
1	A	143	LYS
1	A	151	LEU
1	B	39	TRP
1	B	88	ILE
1	B	97	MSE
1	B	113	LEU
1	B	120	LEU
1	B	178	GLU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (11) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	18	GLN
1	A	24	ASN

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Mol	Chain	Res	Type
1	A	53	GLN
1	A	73	GLN
1	A	103	GLN
1	A	144	GLN
1	B	18	GLN
1	B	24	ASN
1	B	73	GLN
1	B	144	GLN
1	B	179	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 3 ligands modelled in this entry, 3 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	160/183 (87%)	0.99	28 (17%) 1 1	14, 30, 69, 88	0
1	B	160/183 (87%)	0.84	18 (11%) 5 4	13, 27, 72, 80	0
All	All	320/366 (87%)	0.92	46 (14%) 2 2	13, 29, 71, 88	0

All (46) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	141	ASN	7.5
1	A	123	LEU	6.0
1	B	142	ILE	5.2
1	A	144	GLN	4.9
1	A	37	GLN	4.6
1	B	144	GLN	4.6
1	A	131	ASP	4.5
1	A	142	ILE	4.3
1	A	130	GLY	4.1
1	B	131	ASP	4.1
1	A	134	ASP	4.1
1	A	143	LYS	4.0
1	B	126	ALA	3.7
1	B	36	ASP	3.7
1	B	135	GLU	3.6
1	A	102	ASP	3.5
1	A	36	ASP	3.4
1	B	124	ARG	3.3
1	A	38	GLU	3.3
1	A	11	ARG	3.2
1	A	136	VAL	3.2
1	A	34	PHE	3.2
1	A	39	TRP	3.2
1	B	143	LYS	3.2

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Mol	Chain	Res	Type	RSRZ
1	A	140	GLU	3.1
1	A	35	PRO	3.0
1	A	129	LEU	2.9
1	A	88	ILE	2.9
1	A	74	ARG	2.8
1	B	182	SER	2.8
1	B	123	LEU	2.8
1	A	73	GLN	2.7
1	B	102	ASP	2.7
1	B	39	TRP	2.6
1	B	113	LEU	2.5
1	A	121	GLU	2.4
1	A	120	LEU	2.4
1	B	145	LYS	2.4
1	B	130	GLY	2.3
1	B	44	VAL	2.3
1	A	145	LYS	2.2
1	A	167	LEU	2.2
1	A	168	ILE	2.2
1	B	112	CYS	2.2
1	B	162	VAL	2.0
1	A	84	LEU	2.0

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

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

6.3 Carbohydrates [i](#)

There are no carbohydrates in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	MG	A	184	1/1	0.62	0.73	58,58,58,58	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
2	MG	B	184	1/1	0.92	0.58	40,40,40,40	1
2	MG	B	185	1/1	0.98	0.09	28,28,28,28	0

6.5 Other polymers [i](#)

There are no such residues in this entry.