



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 09:56 PM UTC

PDB ID : 2VIC / pdb_00002vic
Title : CRYSTAL STRUCTURE OF THE ISHP608 TRANSPOSASE IN COMPLEX
with Left end 26- mer DNA and manganese
Authors : Barabas, O.; Ronning, D.R.; Guynet, C.; Hickman, A.B.; Ton-Hoang, B.;
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Deposited on : 2007-11-29
Resolution : 2.35 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 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:

MolProbity	:	4-5-2 with Phenix2.0
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

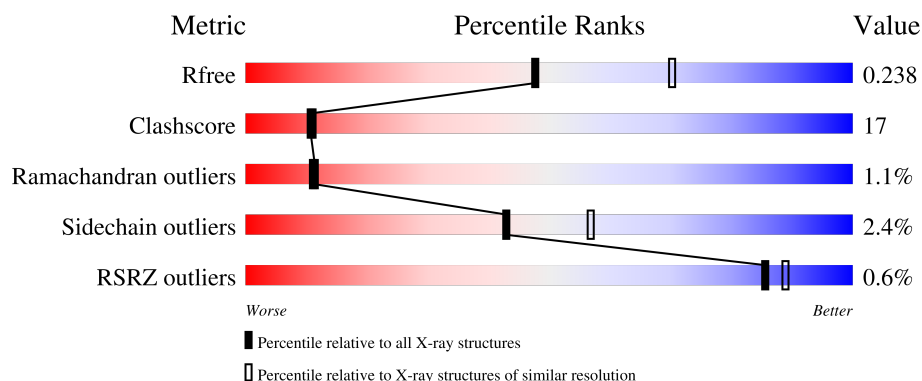
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.35 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}	180053	1596 (2.36-2.36)
Clashscore	190562	1663 (2.36-2.36)
Ramachandran outliers	187476	1646 (2.36-2.36)
Sidechain outliers	187428	1646 (2.36-2.36)
RSRZ outliers	180081	1598 (2.36-2.36)

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 of 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	159	% 71% 19% • 5%
1	B	159	60% 20% • 19%
2	C	26	23% 42% 27% • •
2	D	26	38% 35% 15% 12%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 3427 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 TRANSPOSASE ORFA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	151	Total	C	N	O	S	0	0	0
			1225	785	217	217	6			
1	B	128	Total	C	N	O	S	0	0	0
			1048	674	186	182	6			

- Molecule 2 is a DNA chain called 5'-D(*AP*AP*AP*GP*CP*CP*CP*TP*AP *GP*C P*TP*TP*TP*TP*AP*GP*CP*TP*AP*TP*GP*GP*GP*G)-3'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	25	Total	C	N	O	P	0	0	0
			510	244	92	150	24			
2	D	26	Total	C	N	O	P	0	0	0
			531	254	97	155	25			

- Molecule 3 is MANGANESE (II) ION (CCD ID: MN) (formula: Mn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total	Mn	0	0
			1	1		
3	D	1	Total	Mn	0	0
			1	1		

- Molecule 4 is water.

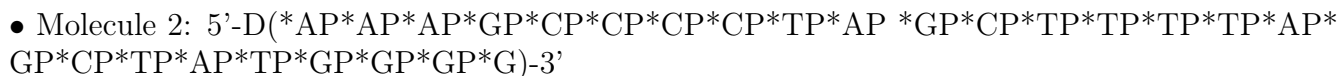
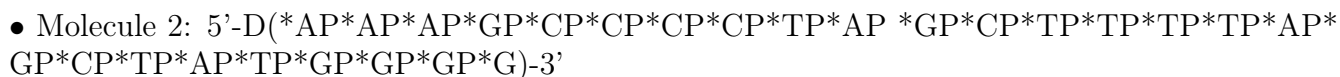
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	24	Total	O	0	0
			24	24		
4	B	34	Total	O	0	0
			34	34		
4	C	18	Total	O	0	0
			18	18		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	D	35	Total	O	0	0
			35	35		

• Molecule 1: TRANSPOSASE ORFA



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	74.21Å 50.26Å 115.62Å 90.00° 105.60° 90.00°	Depositor
Resolution (Å)	19.47 – 2.35 19.47 – 2.35	Depositor EDS
% Data completeness (in resolution range)	89.0 (19.47-2.35) 88.8 (19.47-2.35)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.93 (at 2.29Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.203 , 0.241 0.198 , 0.238	Depositor DCC
R_{free} test set	793 reflections (4.85%)	wwPDB-VP
Wilson B-factor (Å ²)	37.1	Xtriage
Anisotropy	0.673	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 46.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	3427	wwPDB-VP
Average B, all atoms (Å ²)	40.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.50% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical 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

5.1 Standard geometry

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

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	0.51	0/1250	1.01	3/1688 (0.2%)
1	B	0.49	0/1069	0.98	4/1441 (0.3%)
2	C	0.35	0/571	0.95	3/880 (0.3%)
2	D	0.35	0/595	1.02	4/917 (0.4%)
All	All	0.46	0/3485	0.99	14/4926 (0.3%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	C	0	7
2	D	0	7
All	All	0	14

There are no bond length outliers.

All (14) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	61	ASP	N-CA-C	-8.64	97.10	109.29
1	B	61	ASP	N-CA-C	-7.15	95.58	110.80
2	D	40	DG	N9-C1'-C2'	-7.00	103.00	113.50
1	A	14	VAL	N-CA-C	-5.79	100.08	108.36
2	C	20	DC	N1-C1'-C2'	-5.77	104.84	113.50
2	D	21	DC	N1-C1'-C2'	-5.75	104.88	113.50
1	A	15	TYR	N-CA-C	5.59	116.77	108.60
1	B	15	TYR	N-CA-C	5.54	117.21	108.96
2	D	38	DG	N9-C1'-C2'	-5.35	105.48	113.50
1	B	121	LEU	N-CA-C	5.33	117.52	111.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	38	DG	N9-C1'-C2'	-5.18	105.73	113.50
2	C	22	DC	N1-C1'-C2'	-5.13	105.81	113.50
1	B	110	SER	N-CA-C	5.10	117.64	110.14
2	D	20	DC	N1-C1'-C2'	-5.01	105.98	113.50

There are no chirality outliers.

All (14) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	C	21	DC	Sidechain
2	C	22	DC	Sidechain
2	C	23	DC	Sidechain
2	C	34	DC	Sidechain
2	C	39	DG	Sidechain
2	C	40	DG	Sidechain
2	C	41	DG	Sidechain
2	D	20	DC	Sidechain
2	D	23	DC	Sidechain
2	D	31	DT	Sidechain
2	D	38	DG	Sidechain
2	D	39	DG	Sidechain
2	D	40	DG	Sidechain
2	D	41	DG	Sidechain

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	1225	0	1251	28	0
1	B	1048	0	1089	25	0
2	C	510	0	284	40	0
2	D	531	0	295	24	0
3	A	1	0	0	0	0
3	D	1	0	0	0	0
4	A	24	0	0	1	0
4	B	34	0	0	0	0
4	C	18	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	D	35	0	0	0	0
All	All	3427	0	2919	104	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 17.

All (104) 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)
2:D:38:DG:H2''	2:D:39:DG:C5'	1.77	1.13
1:B:90:ARG:HG3	2:D:29:DT:H1'	1.19	1.12
2:C:38:DG:H2''	2:C:39:DG:H5''	1.29	1.12
2:C:20:DC:H2''	2:C:21:DC:H5'	1.34	1.08
2:D:38:DG:H2''	2:D:39:DG:H5'	1.33	1.05
2:D:38:DG:H2''	2:D:39:DG:H5''	1.55	0.86
1:B:90:ARG:HG3	2:D:29:DT:C1'	2.06	0.83
2:C:38:DG:H2''	2:C:39:DG:C5'	2.09	0.80
2:C:38:DG:C2'	2:C:39:DG:H5''	2.11	0.80
2:C:39:DG:H2''	2:C:40:DG:H5'	1.64	0.78
2:D:29:DT:H2''	2:D:30:DT:H5'	1.65	0.78
1:B:29:ARG:NH2	1:B:102:LYS:HB3	2.00	0.76
2:D:21:DC:H2''	2:D:22:DC:H5'	1.67	0.76
2:C:34:DC:H2'	2:C:35:DT:H72	1.70	0.74
2:D:40:DG:H2''	2:D:41:DG:O5'	1.87	0.73
2:C:20:DC:H2''	2:C:21:DC:C5'	2.18	0.72
2:D:34:DC:H2'	2:D:35:DT:H72	1.72	0.71
2:D:20:DC:H2''	2:D:21:DC:H5'	1.72	0.71
2:C:24:DT:H2''	2:C:25:DA:C8	2.28	0.68
2:C:38:DG:C2'	2:C:39:DG:C5'	2.69	0.68
1:A:60:THR:HG22	1:A:61:ASP:O	1.96	0.66
2:C:31:DT:H3'	2:C:32:DA:C5'	2.26	0.65
1:B:17:CYS:SG	1:B:73:PRO:HG3	2.37	0.65
1:B:37:GLU:HG2	1:B:38:MET:HE2	1.80	0.64
2:C:31:DT:OP1	2:C:31:DT:H2'	1.97	0.64
1:A:29:ARG:HG3	1:A:103:LEU:HD21	1.81	0.62
2:C:36:DA:H2''	2:C:38:DG:H5''	1.81	0.61
1:A:61:ASP:HB3	1:A:64:HIS:HB2	1.82	0.61
2:D:40:DG:C2'	2:D:41:DG:O5'	2.48	0.61
1:B:40:LEU:O	1:B:44:ILE:HG12	2.01	0.60
2:C:31:DT:H2'	2:C:31:DT:O2	2.01	0.60
2:D:38:DG:C2'	2:D:39:DG:H5'	2.20	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:31:DT:O2	2:C:31:DT:C2'	2.51	0.58
2:D:21:DC:H2''	2:D:22:DC:C5'	2.33	0.58
1:A:96:PHE:HB3	1:A:98:HIS:CE1	2.40	0.56
2:C:22:DC:H2''	2:C:23:DC:H5'	1.87	0.56
1:B:29:ARG:HH22	1:B:102:LYS:HB3	1.69	0.56
1:A:144:LYS:HB3	1:A:144:LYS:NZ	2.22	0.55
2:C:21:DC:H2''	2:C:22:DC:H5'	1.88	0.54
2:C:34:DC:C2'	2:C:35:DT:H72	2.37	0.53
2:C:17:DA:H2''	2:C:18:DA:OP1	2.09	0.53
1:A:141:GLU:O	1:A:144:LYS:HB2	2.10	0.52
2:C:29:DT:H2''	2:C:30:DT:H5'	1.91	0.52
2:C:29:DT:O2	2:C:32:DA:H8	1.93	0.52
2:C:21:DC:H2''	2:C:22:DC:C5'	2.40	0.52
2:D:31:DT:H3'	2:D:32:DA:C5'	2.39	0.51
2:D:40:DG:H5'	2:D:40:DG:H8	1.75	0.51
1:A:17:CYS:O	1:A:70:ASP:HA	2.10	0.51
2:C:20:DC:C2	2:C:21:DC:C5	2.99	0.51
2:C:30:DT:H6	2:C:30:DT:O5'	1.93	0.51
1:A:128:ILE:HD11	1:B:20:HIS:CD2	2.46	0.51
1:A:40:LEU:O	1:A:44:ILE:HG12	2.10	0.50
1:A:20:HIS:CD2	1:B:128:ILE:HD11	2.46	0.50
1:A:9:SER:HA	1:A:13:VAL:O	2.11	0.50
1:A:119:ALA:HB1	1:A:123:VAL:HG11	1.93	0.50
1:B:14:VAL:CG1	2:C:17:DA:H5'	2.42	0.50
2:C:34:DC:H2'	2:C:35:DT:C7	2.42	0.49
2:D:39:DG:H2''	2:D:40:DG:OP2	2.11	0.49
1:B:5:VAL:HG11	1:B:16:SER:OG	2.13	0.49
1:B:9:SER:HA	1:B:13:VAL:O	2.12	0.49
1:B:11:HIS:HD2	2:C:38:DG:OP1	1.95	0.49
2:C:39:DG:H2''	2:C:40:DG:C5'	2.38	0.49
1:A:120:PRO:HG2	1:A:123:VAL:HG12	1.94	0.48
2:D:34:DC:H2''	2:D:35:DT:OP2	2.13	0.48
2:C:34:DC:H2''	2:C:35:DT:OP2	2.12	0.48
1:B:93:ARG:HD3	2:D:33:DG:OP1	2.14	0.47
1:B:30:LYS:HA	1:B:62:LYS:O	2.14	0.47
2:C:38:DG:C2'	2:C:39:DG:H5'	2.46	0.46
1:B:93:ARG:NH2	1:B:103:LEU:O	2.49	0.46
2:C:32:DA:H2'	2:C:32:DA:N3	2.30	0.46
1:A:18:LYS:HA	1:A:69:ALA:O	2.16	0.45
2:C:31:DT:OP1	2:C:31:DT:C2'	2.64	0.45
1:B:10:ASN:HB2	2:C:38:DG:P	2.57	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:60:THR:CG2	1:A:61:ASP:O	2.63	0.45
2:D:20:DC:H2''	2:D:21:DC:C5'	2.45	0.45
1:A:119:ALA:HB1	1:A:123:VAL:CG1	2.47	0.45
2:C:22:DC:H2''	2:C:23:DC:C5'	2.46	0.45
1:A:86:GLY:HA3	2:C:29:DT:C4	2.52	0.45
1:A:138:LYS:O	1:A:139:GLN:C	2.59	0.45
2:D:29:DT:H2''	2:D:30:DT:C5'	2.40	0.45
1:A:28:ARG:HH21	1:A:64:HIS:CE1	2.35	0.45
1:A:81:ILE:HD12	1:A:113:ILE:HD11	1.98	0.45
1:B:14:VAL:HG11	2:C:17:DA:H5'	1.98	0.45
1:B:17:CYS:O	1:B:70:ASP:HA	2.17	0.45
1:B:82:LYS:HB3	2:D:35:DT:H4'	1.99	0.45
1:A:40:LEU:HD13	1:A:92:LEU:HD11	1.99	0.44
2:C:38:DG:H5'	2:C:38:DG:H8	1.82	0.44
1:B:62:LYS:HE2	1:B:62:LYS:HB3	1.71	0.44
1:A:38:MET:O	1:A:42:GLU:HG3	2.18	0.44
1:A:128:ILE:HD12	1:B:68:LEU:HB2	2.00	0.43
2:D:34:DC:H2'	2:D:35:DT:C7	2.44	0.43
1:A:15:TYR:CD1	1:A:73:PRO:HD3	2.53	0.43
1:A:28:ARG:HH21	1:A:64:HIS:HE1	1.65	0.43
1:A:149:ASN:HB2	4:A:2022:HOH:O	2.19	0.43
1:B:79:LYS:HA	1:B:82:LYS:HE2	2.02	0.42
2:C:21:DC:H2''	2:C:22:DC:O5'	2.19	0.42
2:C:34:DC:C2'	2:C:35:DT:C7	2.98	0.42
1:B:26:LYS:HB3	1:B:103:LEU:HD22	2.02	0.42
2:D:37:DT:H6	2:D:37:DT:H2'	1.51	0.41
2:C:36:DA:C6	2:C:38:DG:C5	3.09	0.41
2:C:23:DC:H2'	2:C:24:DT:H72	2.02	0.40
1:A:17:CYS:HB2	1:A:71:ILE:O	2.21	0.40
1:A:121:LEU:HD11	1:B:68:LEU:HD21	2.04	0.40
2:D:38:DG:C2'	2:D:39:DG:C5'	2.71	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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	149/159 (94%)	136 (91%)	10 (7%)	3 (2%)	6	4
1	B	126/159 (79%)	120 (95%)	6 (5%)	0	100	100
All	All	275/318 (86%)	256 (93%)	16 (6%)	3 (1%)	11	11

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	139	GLN
1	A	138	LYS
1	A	140	LYS

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all 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	136/144 (94%)	133 (98%)	3 (2%)	45	59
1	B	118/144 (82%)	115 (98%)	3 (2%)	42	55
All	All	254/288 (88%)	248 (98%)	6 (2%)	43	57

All (6) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	38	MET
1	A	123	VAL
1	A	144	LYS
1	B	6	LEU
1	B	77	VAL
1	B	90	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	64	HIS
1	A	130	ASN
1	A	133	ASN
1	A	135	ASN
1	B	11	HIS
1	B	64	HIS
1	B	94	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 2 ligands modelled in this entry, 2 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 [i](#)

There are no chain breaks in this entry.

6 Fit of model and data [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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	151/159 (94%)	-0.04	2 (1%) 75 79	23, 39, 90, 117	0
1	B	128/159 (80%)	-0.27	0 100 100	19, 33, 62, 73	0
2	C	25/26 (96%)	-0.28	0 100 100	33, 42, 57, 84	0
2	D	26/26 (100%)	-0.77	0 100 100	21, 29, 39, 41	0
All	All	330/370 (89%)	-0.21	2 (0%) 85 89	19, 37, 74, 117	0

All (2) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	137	PRO	2.5
1	A	139	GLN	2.2

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 oligosaccharides 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($\text{\AA}^2$)	Q<0.9
3	MN	A	1156	1/1	0.89	0.08	102,102,102,102	0
3	MN	D	1042	1/1	0.99	0.04	57,57,57,57	0

6.5 Other polymers [i](#)

There are no such residues in this entry.