



Full wwPDB X-ray Structure Validation Report ⓘ

Sep 10, 2023 – 08:51 PM EDT

PDB ID : 4JKB
Title : Open and closed forms of V1788D human PRP8 RNase H-like domain with bound Mg ion
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Deposited on : 2013-03-09
Resolution : 1.30 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 : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.35.1
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) : 2.35.1

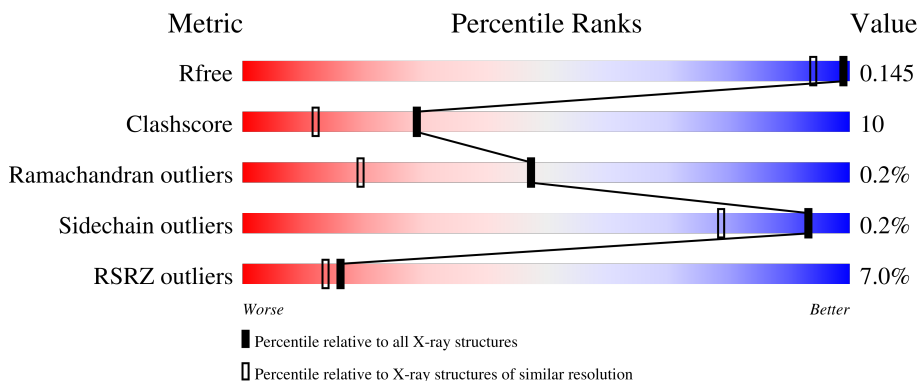
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.30 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	1058 (1.30-1.30)
Clashscore	141614	1101 (1.30-1.30)
Ramachandran outliers	138981	1058 (1.30-1.30)
Sidechain outliers	138945	1058 (1.30-1.30)
RSRZ outliers	127900	1029 (1.30-1.30)

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	222	
1	B	222	

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 4656 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 Pre-mRNA-processing-splicing factor 8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	221	Total 1969	C 1307	N 317	O 340	S 5	0	28	0
1	B	220	Total 1936	C 1282	N 311	O 339	S 4	0	23	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1788	ASP	VAL	engineered mutation	UNP Q6P2Q9
B	1788	ASP	VAL	engineered mutation	UNP Q6P2Q9

- Molecule 2 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
2	A	1	Total 6	C 3	O 3	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	C O	0	1
			12	6 6		
2	B	1	Total	C O	0	0
			6	3 3		

- Molecule 3 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	3	Total	Cl	0	0
			3	3		
3	B	2	Total	Cl	0	0
			2	2		

- Molecule 4 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	B	2	Total	Mg	0	0
			2	2		

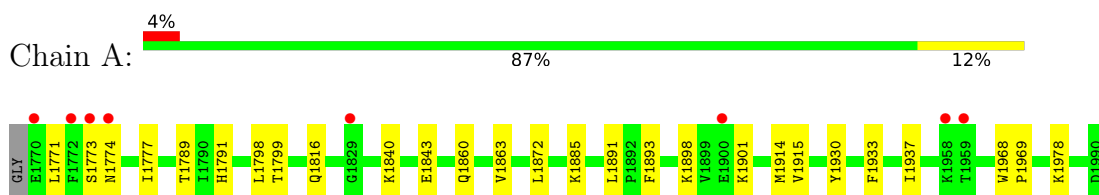
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	389	Total	O	0	20
			408	408		
5	B	302	Total	O	0	11
			312	312		

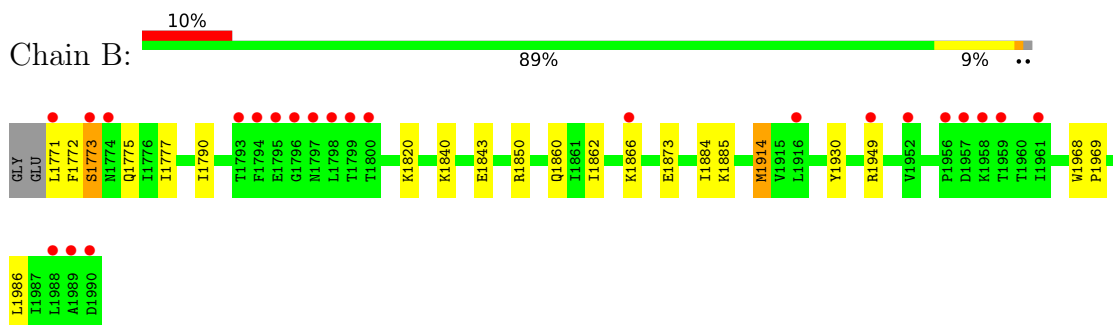
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and 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: Pre-mRNA-processing-splicing factor 8



- Molecule 1: Pre-mRNA-processing-splicing factor 8



4 Data and refinement statistics i

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	75.36Å 78.16Å 93.77Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	40.04 – 1.30 40.20 – 1.30	Depositor EDS
% Data completeness (in resolution range)	90.5 (40.04-1.30) 90.6 (40.20-1.30)	Depositor EDS
R_{merge}	0.04	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	8.85 (at 1.30Å)	Xtrriage
Refinement program	REFMAC	Depositor
R, R_{free}	0.119 , 0.145 0.119 , 0.145	Depositor DCC
R_{free} test set	6249 reflections (5.04%)	wwPDB-VP
Wilson B-factor (Å ²)	15.3	Xtrriage
Anisotropy	0.045	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 56.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	0.013 for k,h,-l	Xtrriage
F_o, F_c correlation	0.98	EDS
Total number of atoms	4656	wwPDB-VP
Average B, all atoms (Å ²)	24.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.64% 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 [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: MG, CL, GOL

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	0.60	0/2092	0.69	0/2836
1	B	0.59	0/2028	0.68	1/2751 (0.0%)
All	All	0.59	0/4120	0.69	1/5587 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1850	ARG	NE-CZ-NH2	-5.13	117.74	120.30

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	1969	0	2121	39	0
1	B	1936	0	2054	39	0
2	A	18	0	24	1	0
2	B	6	0	8	0	0
3	A	3	0	0	0	0
3	B	2	0	0	1	0
4	B	2	0	0	0	0
5	A	408	0	0	11	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	B	312	0	0	20	0
All	All	4656	0	4207	79	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 10.

All (79) 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:1860[B]:GLN:NE2	1:B:1862[B]:ILE:HD11	1.29	1.37
1:B:1860[B]:GLN:HE21	1:B:1862[B]:ILE:CD1	1.37	1.35
1:B:1771[A]:LEU:HB3	5:B:2395:HOH:O	1.22	1.29
1:A:1901[A]:LYS:O	5:A:2469:HOH:O	1.61	1.17
1:A:1891[B]:LEU:CD1	1:A:1937[B]:ILE:HD12	1.75	1.14
1:A:1914[B]:MET:HE3	5:A:2342[B]:HOH:O	1.47	1.10
1:B:1820[B]:LYS:HD3	5:B:2317:HOH:O	1.48	1.09
1:A:1891[B]:LEU:CD1	1:A:1937[B]:ILE:CD1	2.29	1.09
1:A:1891[B]:LEU:HD13	1:A:1937[B]:ILE:HD12	1.35	1.05
1:A:1891[B]:LEU:HD13	1:A:1937[B]:ILE:CD1	1.88	1.03
1:B:1820[B]:LYS:CD	5:B:2317:HOH:O	2.06	1.02
1:A:1840[B]:LYS:HD3	5:B:2158[B]:HOH:O	1.61	1.00
1:A:1898[B]:LYS:CD	5:A:2354:HOH:O	2.13	0.94
3:B:2005:CL:CL	5:B:2323:HOH:O	2.21	0.94
1:B:1843[A]:GLU:OE2	5:B:2222[A]:HOH:O	1.85	0.92
1:B:1771[A]:LEU:CB	5:B:2395:HOH:O	1.91	0.91
1:B:1820[B]:LYS:CE	5:B:2317:HOH:O	2.17	0.90
1:B:1866[B]:LYS:O	1:B:1866[B]:LYS:HD3	1.74	0.85
1:A:1914[B]:MET:CE	5:A:2342[B]:HOH:O	2.11	0.85
1:A:1843[B]:GLU:OE1	5:B:2158[B]:HOH:O	1.93	0.84
1:A:1898[B]:LYS:HD2	5:A:2354:HOH:O	1.73	0.83
1:B:1820[A]:LYS:HG3	1:B:1914[A]:MET:CE	2.08	0.83
1:B:1820[A]:LYS:HG3	1:B:1914[A]:MET:HE1	1.58	0.82
1:B:1775[B]:GLN:NE2	1:B:1777[B]:ILE:HD11	1.95	0.82
1:A:1898[B]:LYS:HD3	5:A:2354:HOH:O	1.79	0.78
1:A:1891[B]:LEU:CD1	1:A:1937[B]:ILE:HD11	2.15	0.77
1:A:1891[B]:LEU:HD12	1:A:1937[B]:ILE:HD12	1.68	0.76
1:A:1901[B]:LYS:O	1:A:1901[B]:LYS:HG2	1.87	0.75
1:B:1930[A]:TYR:OH	5:B:2364:HOH:O	1.63	0.75
1:B:1775[B]:GLN:HA	5:B:2348:HOH:O	1.90	0.69
1:B:1820[B]:LYS:NZ	5:B:2317:HOH:O	2.25	0.69
1:B:1771[B]:LEU:N	5:B:2364:HOH:O	2.26	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1891[B]:LEU:HD11	1:A:1937[B]:ILE:CD1	2.24	0.65
1:A:1930:TYR:OH	5:A:2143[A]:HOH:O	2.11	0.65
1:A:1843[B]:GLU:CD	5:B:2158[B]:HOH:O	2.35	0.64
1:A:1860[B]:GLN:OE1	1:A:1885:LYS:HE2	1.99	0.63
1:A:1863:VAL:HG11	1:A:1872[B]:LEU:HD12	1.80	0.63
1:B:1775[A]:GLN:HA	5:B:2348:HOH:O	1.99	0.61
1:A:1914[C]:MET:HG3	1:A:1915:VAL:N	2.15	0.61
1:A:1891[B]:LEU:HD13	1:A:1937[B]:ILE:HD11	1.73	0.60
1:B:1840[B]:LYS:CE	5:B:2296:HOH:O	2.52	0.58
1:B:1775[B]:GLN:HE22	1:B:1777[B]:ILE:HD11	1.66	0.58
1:B:1820[A]:LYS:HG3	1:B:1914[A]:MET:HE3	1.86	0.57
1:A:1901[B]:LYS:O	1:A:1901[B]:LYS:CG	2.52	0.56
1:A:1799[A]:THR:HG21	5:A:2208:HOH:O	2.07	0.55
1:A:1891[B]:LEU:HG	1:A:1893:PHE:CE2	2.43	0.54
1:A:1885:LYS:HE3	5:A:2271:HOH:O	2.05	0.54
1:B:1775[B]:GLN:HE21	1:B:1777[B]:ILE:HD11	1.72	0.52
1:B:1820[A]:LYS:CG	1:B:1914[A]:MET:CE	2.86	0.52
1:B:1820[A]:LYS:CG	1:B:1914[A]:MET:HE3	2.40	0.52
1:A:1773[B]:SER:OG	1:A:1774:ASN:N	2.43	0.51
1:A:1891[B]:LEU:HD11	1:A:1937[B]:ILE:HD11	1.87	0.51
1:B:1866[B]:LYS:HD3	1:B:1866[B]:LYS:C	2.30	0.51
1:A:1978[A]:LYS:HE3	5:A:2444:HOH:O	2.10	0.51
1:A:1789[B]:THR:HG22	1:A:1791[B]:HIS:CD2	2.46	0.50
1:A:1816:GLN:OE1	2:A:2002[B]:GOL:H32	2.11	0.50
1:A:1898[B]:LYS:HB2	5:A:2354:HOH:O	2.11	0.49
1:B:1771[A]:LEU:N	5:B:2395:HOH:O	2.45	0.48
1:A:1771:LEU:HA	1:A:1777:ILE:HD12	1.95	0.48
1:B:1860[B]:GLN:HE21	1:B:1862[B]:ILE:HD11	0.46	0.48
1:A:1933:PHE:CE2	1:A:1937[A]:ILE:HD11	2.47	0.48
1:A:1933:PHE:CZ	1:A:1937[A]:ILE:HD11	2.49	0.47
1:A:1789[B]:THR:CG2	1:A:1791[B]:HIS:NE2	2.78	0.47
1:B:1772[B]:PHE:HB2	5:B:2235:HOH:O	2.15	0.46
1:A:1863:VAL:HG11	1:A:1872[B]:LEU:CD1	2.45	0.46
1:B:1772[B]:PHE:O	1:B:1773[B]:SER:HB3	2.16	0.45
1:B:1777[B]:ILE:HD13	1:B:1860[B]:GLN:HB3	1.97	0.45
1:B:1860[B]:GLN:CD	1:B:1862[B]:ILE:HD11	2.21	0.45
1:B:1777[B]:ILE:CD1	1:B:1860[B]:GLN:HB3	2.47	0.44
1:A:1968:TRP:HB3	1:A:1969:PRO:HD2	1.99	0.44
1:B:1949:ARG:HG2	1:B:1986[A]:LEU:HD13	1.98	0.44
1:B:1873:GLU:HG2	1:B:1884[A]:ILE:HD12	2.00	0.43
1:B:1968:TRP:HB3	1:B:1969:PRO:HD2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1798[A]:LEU:HD23	1:A:1798[A]:LEU:HA	1.91	0.42
1:B:1866[B]:LYS:C	1:B:1866[B]:LYS:CD	2.87	0.42
1:B:1790:ILE:HD13	5:B:2358:HOH:O	2.19	0.42
1:B:1840[B]:LYS:HE2	5:B:2296:HOH:O	2.17	0.42
1:B:1860[B]:GLN:NE2	1:B:1885:LYS:HD2	2.36	0.41

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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	248/222 (112%)	243 (98%)	5 (2%)	0	100	100
1	B	240/222 (108%)	232 (97%)	6 (2%)	2 (1%)	19	2
All	All	488/444 (110%)	475 (97%)	11 (2%)	2 (0%)	47	10

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	1773[A]	SER
1	B	1773[B]	SER

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	230/201 (114%)	230 (100%)	0	100	100
1	B	222/201 (110%)	220 (99%)	2 (1%)	78	53
All	All	452/402 (112%)	450 (100%)	2 (0%)	93	76

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	1914[A]	MET
1	B	1914[B]	MET

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 11 ligands modelled in this entry, 7 are monoatomic - leaving 4 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
2	GOL	A	2001	-	5,5,5	0.35	0	5,5,5	0.18	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	GOL	A	2002[B]	-	5,5,5	0.35	0	5,5,5	0.28	0
2	GOL	A	2002[A]	-	5,5,5	0.29	0	5,5,5	0.57	0
2	GOL	B	2003	-	5,5,5	0.39	0	5,5,5	0.21	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
2	GOL	A	2001	-	-	0/4/4/4	-
2	GOL	A	2002[B]	-	-	2/4/4/4	-
2	GOL	A	2002[A]	-	-	4/4/4/4	-
2	GOL	B	2003	-	-	2/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (8) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	2002[A]	GOL	C1-C2-C3-O3
2	A	2002[A]	GOL	O2-C2-C3-O3
2	B	2003	GOL	O1-C1-C2-C3
2	B	2003	GOL	O1-C1-C2-O2
2	A	2002[A]	GOL	O1-C1-C2-C3
2	A	2002[B]	GOL	C1-C2-C3-O3
2	A	2002[B]	GOL	O2-C2-C3-O3
2	A	2002[A]	GOL	O1-C1-C2-O2

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	2002[B]	GOL	1	0

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 [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	221/222 (99%)	-0.13	8 (3%) 42 39	10, 17, 35, 62	0
1	B	220/222 (99%)	0.23	23 (10%) 6 4	11, 20, 48, 70	0
All	All	441/444 (99%)	0.05	31 (7%) 16 14	10, 18, 43, 70	0

All (31) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	1798	LEU	10.1
1	B	1794	PHE	8.3
1	A	1774	ASN	6.5
1	B	1793	THR	5.9
1	B	1990	ASP	5.4
1	B	1989	ALA	5.3
1	B	1796	GLY	4.8
1	B	1799	THR	4.8
1	B	1797	ASN	4.6
1	B	1866[A]	LYS	4.3
1	B	1774	ASN	4.3
1	A	1829	GLY	4.3
1	A	1900	GLU	4.2
1	B	1795	GLU	4.0
1	B	1773[A]	SER	3.6
1	B	1957	ASP	3.4
1	B	1949	ARG	3.3
1	B	1988	LEU	3.3
1	B	1958	LYS	3.3
1	B	1800	THR	3.2
1	A	1773[A]	SER	3.0
1	A	1772	PHE	2.9
1	A	1959	THR	2.8
1	B	1961	ILE	2.7

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Mol	Chain	Res	Type	RSRZ
1	B	1952	VAL	2.7
1	A	1958	LYS	2.6
1	B	1956	PRO	2.5
1	B	1959	THR	2.4
1	A	1770	GLU	2.3
1	B	1771[A]	LEU	2.2
1	B	1916	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 monosaccharides 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	GOL	B	2003	6/6	0.72	0.26	54,60,64,67	0
2	GOL	A	2002[B]	6/6	0.91	0.14	18,26,27,27	6
2	GOL	A	2002[A]	6/6	0.91	0.14	25,27,27,29	6
2	GOL	A	2001	6/6	0.94	0.10	26,31,44,53	0
4	MG	B	2001	1/1	0.98	0.10	20,20,20,20	1
4	MG	B	2002	1/1	0.98	0.10	39,39,39,39	0
3	CL	A	2004	1/1	0.99	0.04	45,45,45,45	0
3	CL	B	2005	1/1	0.99	0.06	31,31,31,31	0
3	CL	A	2003	1/1	1.00	0.01	22,22,22,22	0
3	CL	A	2005	1/1	1.00	0.04	25,25,25,25	0
3	CL	B	2004	1/1	1.00	0.03	21,21,21,21	1

6.5 Other polymers [i](#)

There are no such residues in this entry.