



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 13, 2017 – 10:14 am GMT

PDB ID : 1SFN
Title : Crystal structure of protein DR1152 from *Deinococcus radiodurans* R1, Pfam DUF861
Authors : Fedorov, A.A.; Fedorov, E.V.; Almo, S.C.; Burley, S.K.; New York SGX Research Center for Structural Genomics (NYSGXRC)
Deposited on : 2004-02-20
Resolution : 2.46 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

<http://wwpdb.org/validation/2016/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
Xtriage (Phenix)	:	1.9-1692
EDS	:	trunk28620
Percentile statistics	:	20161228.v01 (using entries in the PDB archive December 28th 2016)
Refmac	:	5.8.0135
CCP4	:	6.5.0
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	recalc28949

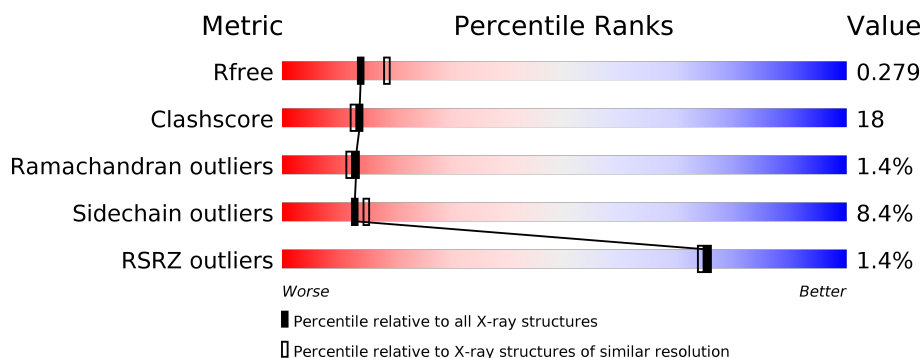
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.46 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}	100719	1119 (2.48-2.44)
Clashscore	112137	1193 (2.48-2.44)
Ramachandran outliers	110173	1185 (2.48-2.44)
Sidechain outliers	110143	1185 (2.48-2.44)
RSRZ outliers	101464	1126 (2.48-2.44)

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. 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	246	<div> <div style="width: 100%; height: 10px; position: relative;"> <div style="position: absolute; top: -10px; left: 0; width: 100%; text-align: center;">%</div> <div style="position: absolute; top: 10px; left: 0; width: 100%; text-align: center;"> </div> </div> </div>
1	B	246	<div> <div style="width: 100%; height: 10px; position: relative;"> <div style="position: absolute; top: -10px; left: 0; width: 100%; text-align: center;">2%</div> <div style="position: absolute; top: 10px; left: 0; width: 100%; text-align: center;"> </div> </div> </div>

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 3938 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 conserved hypothetical protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	245	Total	C	N	O	S	0	0	0
			1930	1244	323	353	10			
1	B	245	Total	C	N	O	S	0	0	0
			1930	1244	323	353	10			

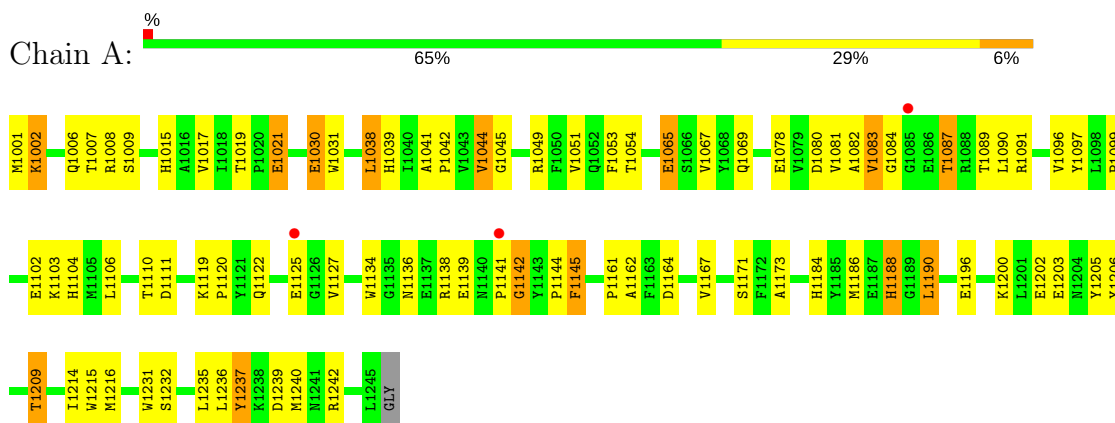
- Molecule 2 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	52	Total	O	0	0
			52	52		
2	B	26	Total	O	0	0
			26	26		

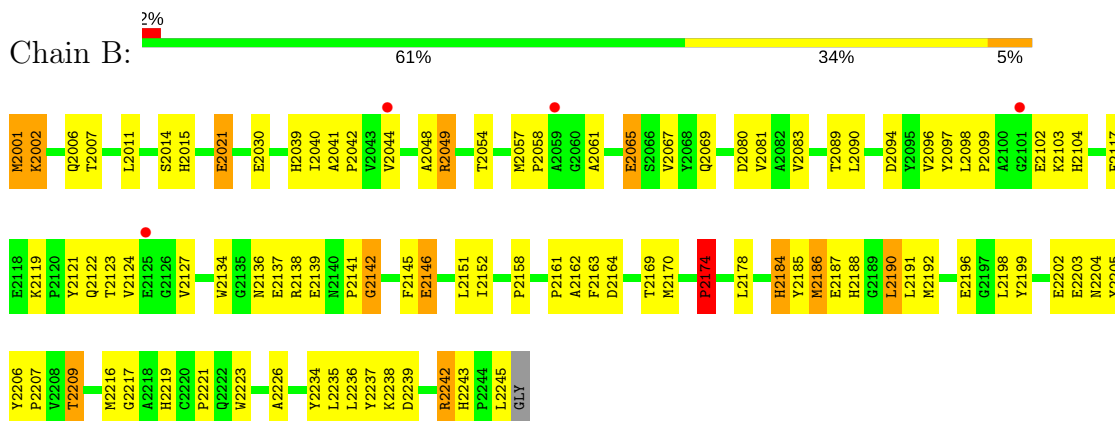
3 Residue-property plots

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: conserved hypothetical protein



- Molecule 1: conserved hypothetical protein



4 Data and refinement statistics

Property	Value	Source
Space group	P 4 21 2	Depositor
Cell constants a, b, c, α , β , γ	109.37Å 109.37Å 95.41Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	25.00 – 2.46 35.84 – 2.46	Depositor EDS
% Data completeness (in resolution range)	97.8 (25.00-2.46) 97.8 (35.84-2.46)	Depositor EDS
R_{merge}	0.04	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	9.42 (at 2.45Å)	Xtriage
Refinement program	CNS 1.0	Depositor
R, R_{free}	0.229 , 0.278 0.229 , 0.279	Depositor DCC
R_{free} test set	1037 reflections (4.91%)	DCC
Wilson B-factor (Å ²)	26.7	Xtriage
Anisotropy	0.123	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 33.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	3938	wwPDB-VP
Average B, all atoms (Å ²)	22.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.04% 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](#)

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	0.41	0/1990	0.70	0/2710
1	B	0.37	0/1990	0.68	0/2710
All	All	0.39	0/3980	0.69	0/5420

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	1930	0	1854	61	0
1	B	1930	0	1854	76	0
2	A	52	0	0	0	0
2	B	26	0	0	0	0
All	All	3938	0	3708	135	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 18.

All (135) 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:A:1002:LYS:H	1:A:1002:LYS:HD2	1.27	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2065:GLU:HG2	1:B:2103:LYS:HA	1.54	0.90
1:B:2041:ALA:O	1:B:2044:VAL:HG23	1.72	0.89
1:B:2090:LEU:HD11	1:B:2096:VAL:HG23	1.55	0.86
1:A:1007:THR:HG22	1:A:1021:GLU:OE1	1.76	0.85
1:A:1065:GLU:HG2	1:A:1103:LYS:HA	1.60	0.84
1:A:1099:PRO:HD2	1:A:1102:GLU:HG3	1.58	0.84
1:B:2080:ASP:OD1	1:B:2089:THR:HG22	1.81	0.81
1:B:2090:LEU:HD11	1:B:2096:VAL:CG2	2.10	0.79
1:B:2039:HIS:HE1	1:B:2054:THR:HG23	1.48	0.79
1:B:2136:ASN:HB3	1:B:2139:GLU:HG3	1.65	0.78
1:B:2188:HIS:HB2	1:B:2216:MET:HB2	1.68	0.76
1:B:2190:LEU:HD11	1:B:2192:MET:HE2	1.67	0.76
1:A:1090:LEU:HD11	1:A:1096:VAL:HG23	1.69	0.75
1:A:1002:LYS:N	1:A:1002:LYS:HD2	2.02	0.74
1:A:1136:ASN:HD22	1:A:1139:GLU:H	1.33	0.73
1:B:2039:HIS:CE1	1:B:2054:THR:HG23	2.24	0.73
1:A:1188:HIS:HB2	1:A:1216:MET:HB2	1.72	0.72
1:B:2090:LEU:HD22	1:B:2094:ASP:HB3	1.75	0.69
1:A:1039:HIS:HE1	1:A:1054:THR:HG23	1.59	0.67
1:A:1090:LEU:HD11	1:A:1096:VAL:CG2	2.24	0.67
1:B:2190:LEU:HD13	1:B:2191:LEU:N	2.10	0.67
1:B:2136:ASN:HD22	1:B:2139:GLU:H	1.44	0.64
1:B:2185:TYR:HA	1:B:2219:HIS:CE1	2.33	0.64
1:B:2174:PRO:O	1:B:2226:ALA:O	2.16	0.63
1:B:2188:HIS:HD2	1:B:2236:LEU:HD11	1.64	0.62
1:B:2099:PRO:HD2	1:B:2102:GLU:HG3	1.80	0.62
1:B:2123:THR:HG22	1:B:2124:VAL:O	1.98	0.62
1:B:2196:GLU:HB3	1:B:2209:THR:HG22	1.82	0.62
1:B:2065:GLU:CG	1:B:2103:LYS:HA	2.29	0.62
1:A:1190:LEU:C	1:A:1190:LEU:HD12	2.21	0.61
1:A:1082:ALA:HA	1:A:1087:THR:HB	1.83	0.60
1:A:1119:LYS:NZ	1:A:1164:ASP:OD2	2.35	0.60
1:A:1080:ASP:OD1	1:A:1089:THR:HB	2.01	0.59
1:B:2002:LYS:HD2	1:B:2002:LYS:H	1.67	0.59
1:A:1161:PRO:O	1:A:1242:ARG:NH2	2.36	0.58
1:B:2122:GLN:O	1:B:2242:ARG:NH1	2.37	0.58
1:B:2096:VAL:HG22	1:B:2134:TRP:CE3	2.39	0.58
1:B:2158:PRO:HG2	1:B:2163:PHE:CE1	2.38	0.58
1:A:1041:ALA:O	1:A:1044:VAL:HG22	2.04	0.57
1:B:2039:HIS:HE1	1:B:2054:THR:CG2	2.16	0.57
1:B:2190:LEU:HD11	1:B:2192:MET:CE	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1078:GLU:HG2	1:A:1091:ARG:HG2	1.88	0.56
1:B:2002:LYS:HD2	1:B:2002:LYS:N	2.21	0.56
1:B:2117:PHE:CE2	1:B:2237:TYR:HB2	2.40	0.56
1:B:2188:HIS:CD2	1:B:2236:LEU:HD11	2.41	0.56
1:B:2090:LEU:CD1	1:B:2096:VAL:HG23	2.30	0.55
1:B:2049:ARG:NH1	1:B:2187:GLU:HG3	2.22	0.55
1:B:2042:PRO:HA	1:B:2048:ALA:HB3	1.89	0.55
1:A:1188:HIS:CD2	1:A:1236:LEU:HD11	2.41	0.55
1:A:1039:HIS:CE1	1:A:1054:THR:HG23	2.39	0.54
1:B:2243:HIS:HD2	1:B:2245:LEU:H	1.56	0.54
1:B:2083:VAL:HG22	1:B:2104:HIS:HB2	1.89	0.54
1:B:2196:GLU:HB3	1:B:2209:THR:CG2	2.38	0.53
1:A:1196:GLU:HB3	1:A:1209:THR:HG22	1.91	0.53
1:A:1190:LEU:HG	1:A:1214:ILE:HB	1.89	0.53
1:A:1042:PRO:HD3	1:A:1051:VAL:HG12	1.91	0.52
1:B:2127:VAL:HG11	1:B:2162:ALA:HA	1.92	0.52
1:B:2237:TYR:CD1	1:B:2237:TYR:C	2.83	0.52
1:B:2146:GLU:OE1	1:B:2146:GLU:HA	2.09	0.52
1:A:1184:HIS:HB2	1:A:1186:MET:CE	2.40	0.52
1:B:2136:ASN:HD21	1:B:2138:ARG:HB2	1.73	0.52
1:A:1205:TYR:HB2	1:B:2205:TYR:CD1	2.45	0.51
1:B:2081:VAL:HG12	1:B:2083:VAL:HG23	1.92	0.51
1:B:2139:GLU:O	1:B:2141:PRO:HD3	2.10	0.51
1:B:2152:ILE:N	1:B:2152:ILE:HD12	2.25	0.51
1:A:1205:TYR:CD1	1:B:2205:TYR:HB2	2.46	0.51
1:A:1171:SER:HA	1:A:1232:SER:O	2.11	0.51
1:A:1122:GLN:O	1:A:1242:ARG:NH1	2.44	0.51
1:A:1090:LEU:CD1	1:A:1096:VAL:HG23	2.40	0.50
1:B:2015:HIS:HD2	1:B:2202:GLU:OE2	1.95	0.50
1:B:2124:VAL:HG23	1:B:2242:ARG:NH1	2.27	0.49
1:A:1167:VAL:HA	1:A:1236:LEU:O	2.13	0.49
1:B:2007:THR:HG22	1:B:2021:GLU:OE1	2.12	0.49
1:A:1119:LYS:HG2	1:A:1120:PRO:O	2.11	0.49
1:B:2243:HIS:CD2	1:B:2245:LEU:H	2.31	0.49
1:B:2011:LEU:C	1:B:2011:LEU:HD13	2.33	0.48
1:B:2069:GLN:NE2	1:B:2097:TYR:OH	2.47	0.48
1:A:1038:LEU:HA	1:A:1053:PHE:HB3	1.96	0.48
1:B:2137:GLU:HG3	1:B:2169:THR:HG21	1.96	0.47
1:B:2021:GLU:H	1:B:2021:GLU:HG3	1.49	0.47
1:B:2178:LEU:HD12	1:B:2223:TRP:HA	1.95	0.47
1:B:2170:MET:HB2	1:B:2234:TYR:CE1	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1002:LYS:CD	1:A:1002:LYS:H	2.14	0.47
1:B:2058:PRO:HD2	1:B:2061:ALA:HB2	1.95	0.47
1:A:1015:HIS:HD2	1:A:1202:GLU:OE2	1.98	0.47
1:B:2161:PRO:O	1:B:2242:ARG:NH2	2.48	0.47
1:A:1237:TYR:CD1	1:A:1237:TYR:C	2.88	0.47
1:A:1127:VAL:HG11	1:A:1162:ALA:HA	1.95	0.47
1:A:1096:VAL:HG22	1:A:1134:TRP:CE3	2.49	0.47
1:B:2186:MET:CE	1:B:2238:LYS:HD3	2.44	0.47
1:B:2243:HIS:NE2	1:B:2245:LEU:HD12	2.30	0.47
1:A:1136:ASN:HD21	1:A:1138:ARG:HB2	1.80	0.46
1:B:2121:TYR:HA	1:B:2164:ASP:OD2	2.15	0.46
1:A:1083:VAL:HG23	1:A:1084:GLY:N	2.32	0.45
1:A:1065:GLU:CG	1:A:1104:HIS:H	2.29	0.45
1:A:1081:VAL:HG22	1:A:1106:LEU:CD2	2.47	0.45
1:B:2049:ARG:HH12	1:B:2187:GLU:HG3	1.81	0.45
1:B:2067:VAL:HG12	1:B:2067:VAL:O	2.17	0.45
1:A:1184:HIS:HB2	1:A:1186:MET:HE3	1.99	0.44
1:B:2219:HIS:O	1:B:2221:PRO:HD3	2.18	0.44
1:B:2057:MET:HA	1:B:2058:PRO:HD3	1.87	0.44
1:B:2190:LEU:HD21	1:B:2234:TYR:CD1	2.52	0.44
1:B:2141:PRO:O	1:B:2142:GLY:O	2.35	0.44
1:A:1069:GLN:NE2	1:A:1097:TYR:OH	2.47	0.44
1:A:1009:SER:HA	1:A:1017:VAL:O	2.18	0.44
1:A:1008:ARG:HB2	1:A:1019:THR:HG21	2.00	0.44
1:A:1190:LEU:C	1:A:1190:LEU:CD1	2.86	0.44
1:B:2119:LYS:HD2	1:B:2237:TYR:OH	2.19	0.43
1:A:1196:GLU:HB3	1:A:1209:THR:CG2	2.49	0.43
1:B:2014:SER:O	1:B:2217:GLY:N	2.44	0.43
1:A:1001:MET:HB3	1:A:1006:GLN:OE1	2.18	0.42
1:A:1065:GLU:HG3	1:A:1104:HIS:H	1.85	0.42
1:A:1067:VAL:HG12	1:A:1067:VAL:O	2.19	0.42
1:B:2098:LEU:HD13	1:B:2104:HIS:NE2	2.35	0.42
1:B:2204:ASN:HB2	1:B:2206:TYR:CE1	2.54	0.42
1:A:1200:LYS:HD2	1:A:1205:TYR:CZ	2.55	0.42
1:B:2001:MET:HB3	1:B:2006:GLN:OE1	2.20	0.42
1:A:1136:ASN:ND2	1:A:1139:GLU:HG3	2.35	0.42
1:A:1110:THR:O	1:A:1111:ASP:C	2.58	0.42
1:A:1039:HIS:HE1	1:A:1054:THR:CG2	2.31	0.41
1:B:2119:LYS:HE3	1:B:2119:LYS:HB2	1.92	0.41
1:A:1015:HIS:HA	1:A:1215:TRP:O	2.20	0.41
1:A:1030:GLU:HG2	1:A:1031:TRP:CD1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1184:HIS:HB2	1:A:1186:MET:HE1	2.03	0.41
1:B:2184:HIS:NE2	1:B:2188:HIS:CE1	2.88	0.41
1:A:1141:PRO:O	1:A:1142:GLY:O	2.39	0.41
1:A:1239:ASP:O	1:A:1240:MET:HG2	2.21	0.41
1:A:1144:PRO:O	1:A:1145:PHE:C	2.59	0.41
1:B:2040:ILE:HG23	1:B:2044:VAL:HG21	2.02	0.41
1:A:1015:HIS:HE1	1:A:1206:TYR:OH	2.04	0.40
1:B:2137:GLU:CG	1:B:2169:THR:HG21	2.52	0.40
1:B:2184:HIS:N	1:B:2184:HIS:CD2	2.90	0.40
1:A:1173:ALA:HB2	1:A:1231:TRP:CZ2	2.56	0.40
1:B:2198:LEU:HD23	1:B:2207:PRO:HA	2.02	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	243/246 (99%)	227 (93%)	12 (5%)	4 (2%)	11	10
1	B	243/246 (99%)	227 (93%)	13 (5%)	3 (1%)	15	15
All	All	486/492 (99%)	454 (93%)	25 (5%)	7 (1%)	13	12

All (7) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	2145	PHE
1	A	1142	GLY
1	A	1145	PHE
1	B	2142	GLY
1	A	1083	VAL
1	A	1045	GLY
1	B	2174	PRO

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	197/197 (100%)	182 (92%)	15 (8%)	15	19
1	B	197/197 (100%)	179 (91%)	18 (9%)	11	12
All	All	394/394 (100%)	361 (92%)	33 (8%)	13	15

All (33) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1002	LYS
1	A	1021	GLU
1	A	1030	GLU
1	A	1038	LEU
1	A	1044	VAL
1	A	1049	ARG
1	A	1065	GLU
1	A	1087	THR
1	A	1125	GLU
1	A	1188	HIS
1	A	1190	LEU
1	A	1203	GLU
1	A	1209	THR
1	A	1235	LEU
1	A	1237	TYR
1	B	2001	MET
1	B	2002	LYS
1	B	2021	GLU
1	B	2030	GLU
1	B	2049	ARG
1	B	2065	GLU
1	B	2146	GLU
1	B	2151	LEU
1	B	2174	PRO
1	B	2184	HIS
1	B	2186	MET
1	B	2190	LEU

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Mol	Chain	Res	Type
1	B	2199	TYR
1	B	2203	GLU
1	B	2209	THR
1	B	2235	LEU
1	B	2239	ASP
1	B	2242	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (19) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	1015	HIS
1	A	1039	HIS
1	A	1052	GLN
1	A	1069	GLN
1	A	1104	HIS
1	A	1122	GLN
1	A	1136	ASN
1	A	1188	HIS
1	A	1219	HIS
1	A	1222	GLN
1	A	1243	HIS
1	B	2015	HIS
1	B	2039	HIS
1	B	2052	GLN
1	B	2069	GLN
1	B	2136	ASN
1	B	2188	HIS
1	B	2204	ASN
1	B	2243	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 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	245/246 (99%)	-0.33	3 (1%) 79 78	6, 17, 34, 59	0
1	B	245/246 (99%)	-0.05	4 (1%) 72 70	8, 23, 44, 58	0
All	All	490/492 (99%)	-0.19	7 (1%) 75 74	6, 21, 41, 59	0

All (7) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	1085	GLY	4.1
1	B	2044	VAL	3.6
1	A	1125	GLU	3.5
1	A	1141	PRO	2.7
1	B	2101	GLY	2.7
1	B	2125	GLU	2.1
1	B	2059	ALA	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](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.