



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 10, 2026 – 02:28 AM UTC

PDB ID : 1SFN / pdb_00001sfn
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

<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

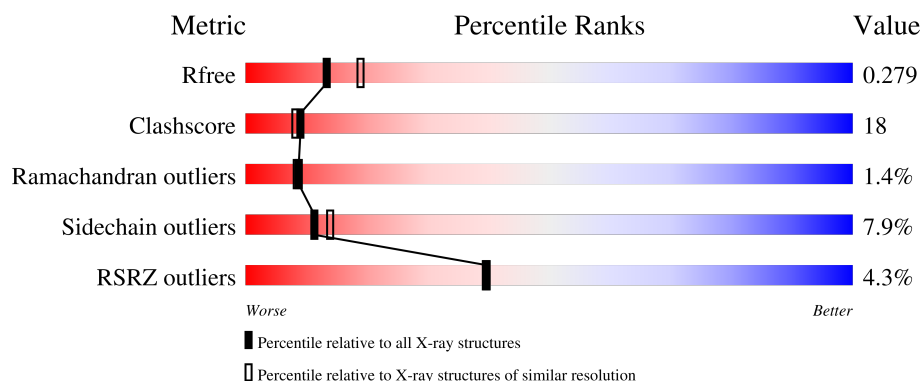
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.46 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}	180053	1190 (2.46-2.46)
Clashscore	190562	1229 (2.46-2.46)
Ramachandran outliers	187476	1218 (2.46-2.46)
Sidechain outliers	187428	1218 (2.46-2.46)
RSRZ outliers	180081	1190 (2.46-2.46)

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	246	2% 61% 32% 6%
1	B	246	7% 59% 35% 5%

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		

- 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 25.00 – 2.46	Depositor EDS
% Data completeness (in resolution range)	97.8 (25.00-2.46) 97.7 (25.00-2.46)	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	1047 reflections (4.88%)	wwPDB-VP
Wilson B-factor (Å ²)	26.7	Xtriage
Anisotropy	0.123	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 34.3	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

5.1 Standard geometry

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	0.46	0/1990	0.99	7/2710 (0.3%)
1	B	0.43	0/1990	0.97	6/2710 (0.2%)
All	All	0.45	0/3980	0.98	13/5420 (0.2%)

There are no bond length outliers.

All (13) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1241	ASN	N-CA-C	7.58	121.87	112.47
1	B	2019	THR	CA-C-N	6.89	127.46	119.47
1	B	2019	THR	C-N-CA	6.89	127.46	119.47
1	B	2066	SER	N-CA-C	-6.42	100.44	109.69
1	B	2241	ASN	N-CA-C	6.33	120.58	112.86
1	B	2124	VAL	N-CA-C	-6.11	99.73	109.20
1	A	1020	PRO	N-CA-C	5.65	122.16	113.75
1	A	1094	ASP	N-CA-C	-5.60	101.42	110.32
1	B	2116	VAL	N-CA-C	5.27	115.49	108.11
1	A	1189	GLY	N-CA-C	-5.23	100.78	113.18
1	A	1190	LEU	N-CA-C	5.17	117.05	109.24
1	A	1008	ARG	N-CA-C	-5.13	106.43	113.30
1	A	1204	ASN	N-CA-C	5.01	117.91	109.95

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	1930	0	1854	62	0
1	B	1930	0	1854	79	0
2	A	52	0	0	0	0
2	B	26	0	0	0	0
All	All	3938	0	3708	139	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 (139) 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
1:B:2190:LEU:HD11	1:B:2192:MET:HE2	1.51	0.91
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:2186:MET:HE3	1:B:2238:LYS:HD3	1.63	0.80
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:A:1090:LEU:HD11	1:A:1096:VAL:HG23	1.69	0.75
1:A:1002:LYS:HD2	1:A:1002:LYS:N	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:A:1184:HIS:HB2	1:A:1186:MET:HE3	1.73	0.70
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:A:1190:LEU:C	1:A:1190:LEU:HD12	2.21	0.66
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:H	1:B:2002:LYS:HD2	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:2237:TYR:C	1:B:2237:TYR:CD1	2.83	0.57
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:B:2011:LEU:C	1:B:2011:LEU:HD13	2.33	0.53
1:A:1190:LEU:HG	1:A:1214:ILE:HB	1.89	0.53
1:A:1151:LEU:HD21	1:A:1170:MET:HE3	1.90	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:2146:GLU:HA	1:B:2146:GLU:OE1	2.09	0.52
1:A:1237:TYR:C	1:A:1237:TYR:CD1	2.88	0.52
1:B:2136:ASN:HD21	1:B:2138:ARG:HB2	1.73	0.52
1:B:2188:HIS:HB3	1:B:2216:MET:HE3	1.92	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:1157:LEU:O	1:A:1166:MET:HE1	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:B:2157:LEU:O	1:B:2166:MET:HE1	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:A:1184:HIS:HB2	1:A:1186:MET:CE	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:A:1190:LEU:C	1:A:1190:LEU:CD1	2.86	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
1:A:1002:LYS:H	1:A:1002:LYS:CD	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:1096:VAL:HG22	1:A:1134:TRP:CE3	2.49	0.47
1:A:1127:VAL:HG11	1:A:1162:ALA:HA	1.95	0.47
1:B:2243:HIS:NE2	1:B:2245:LEU:HD12	2.30	0.47
1:A:1110:THR:O	1:A:1111:ASP:C	2.58	0.46
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:1144:PRO:O	1:A:1145:PHE:C	2.59	0.45
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:2190:LEU:HD11	1:B:2192:MET:CE	2.35	0.45
1:B:2049:ARG:HH12	1:B:2187:GLU:HG3	1.81	0.45
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:1008:ARG:HB2	1:A:1019:THR:HG21	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1009:SER:HA	1:A:1017:VAL:O	2.18	0.44
1:B:2030:GLU:CD	1:B:2030:GLU:H	2.25	0.44
1:B:2067:VAL:O	1:B:2067:VAL:HG12	2.17	0.43
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:O	1:A:1067:VAL:HG12	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: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
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: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:CD2	1:B:2184:HIS:N	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 [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	243/246 (99%)	227 (93%)	12 (5%)	4 (2%)	7	7
1	B	243/246 (99%)	227 (93%)	13 (5%)	3 (1%)	10	11
All	All	486/492 (99%)	454 (93%)	25 (5%)	7 (1%)	9	8

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%)	12	15
1	B	197/197 (100%)	181 (92%)	16 (8%)	11	13
All	All	394/394 (100%)	363 (92%)	31 (8%)	11	14

All (31) 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	1065	GLU
1	A	1087	THR
1	A	1125	GLU
1	A	1151	LEU

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Mol	Chain	Res	Type
1	A	1190	LEU
1	A	1203	GLU
1	A	1209	THR
1	A	1213	ILE
1	A	1235	LEU
1	A	1237	TYR
1	B	2011	LEU
1	B	2021	GLU
1	B	2030	GLU
1	B	2044	VAL
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
1	B	2203	GLU
1	B	2209	THR
1	B	2235	LEU
1	B	2239	ASP
1	B	2242	ARG

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

Mol	Chain	Res	Type
1	A	1012	HIS
1	A	1015	HIS
1	A	1039	HIS
1	A	1052	GLN
1	A	1062	GLN
1	A	1069	GLN
1	A	1104	HIS
1	A	1122	GLN
1	A	1136	ASN
1	A	1188	HIS
1	A	1204	ASN
1	A	1219	HIS
1	B	2015	HIS
1	B	2039	HIS
1	B	2069	GLN
1	B	2136	ASN

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Mol	Chain	Res	Type
1	B	2188	HIS
1	B	2204	ASN
1	B	2243	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 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 [i](#)

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	245/246 (99%)	-0.12	5 (2%) 65 66	6, 17, 34, 59	0
1	B	245/246 (99%)	0.25	16 (6%) 25 22	8, 23, 44, 58	0
All	All	490/492 (99%)	0.06	21 (4%) 40 39	6, 21, 41, 59	0

All (21) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	1085	GLY	5.0
1	B	2044	VAL	4.2
1	A	1001	MET	3.3
1	B	2218	ALA	3.2
1	B	2142	GLY	3.0
1	B	2187	GLU	2.8
1	A	1141	PRO	2.8
1	B	2164	ASP	2.6
1	B	2045	GLY	2.6
1	B	2186	MET	2.6
1	B	2049	ARG	2.5
1	B	2001	MET	2.5
1	B	2012	HIS	2.3
1	B	2237	TYR	2.3
1	B	2087	THR	2.3
1	B	2043	VAL	2.2
1	A	1125	GLU	2.2
1	A	1110	THR	2.2
1	B	2185	TYR	2.2
1	B	2125	GLU	2.1
1	B	2126	GLY	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 oligosaccharides 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.