



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 06:05 AM GMT

PDB ID : 2VXB
Title : STRUCTURE OF THE CRB2-BRCT2 DOMAIN
Authors : Kilkenny, M.L.; Roe, S.M.; Pearl, L.H.
Deposited on : 2008-07-03
Resolution : 2.30 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
<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
Mogul : 1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20026688
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
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) : trunk26865

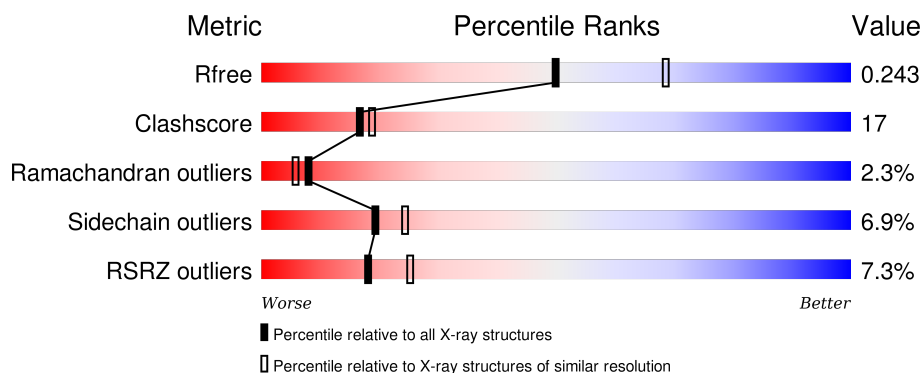
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.30 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}	91344	3852 (2.30-2.30)
Clashscore	102246	4452 (2.30-2.30)
Ramachandran outliers	100387	4410 (2.30-2.30)
Sidechain outliers	100360	4409 (2.30-2.30)
RSRZ outliers	91569	3857 (2.30-2.30)

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 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	241	
1	B	241	

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 3617 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 DNA REPAIR PROTEIN RHP9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	225	Total	C	N	O	S	0	2	0
			1728	1108	295	316	9			
1	B	224	Total	C	N	O	S	0	1	0
			1756	1127	303	317	9			

- Molecule 2 is PRASEODYMIUM ION (three-letter code: Pr) (formula: Pr).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	3	Total	Pr	0	0
			3	3		

- Molecule 3 is water.

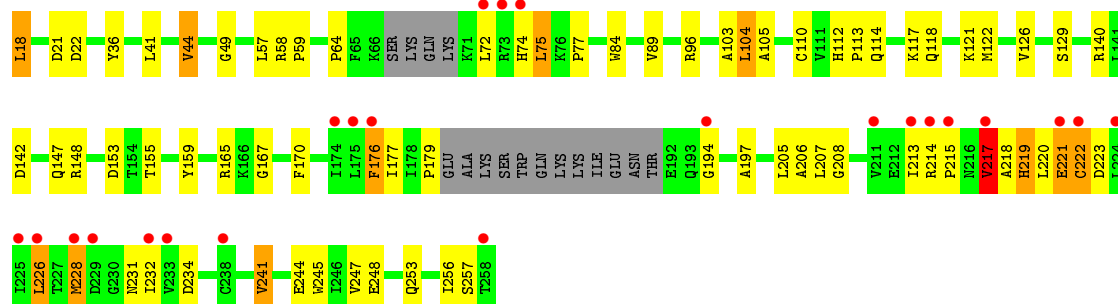
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	71	Total	O	0	0
			71	71		
3	B	59	Total	O	0	0
			59	59		

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 errors 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.

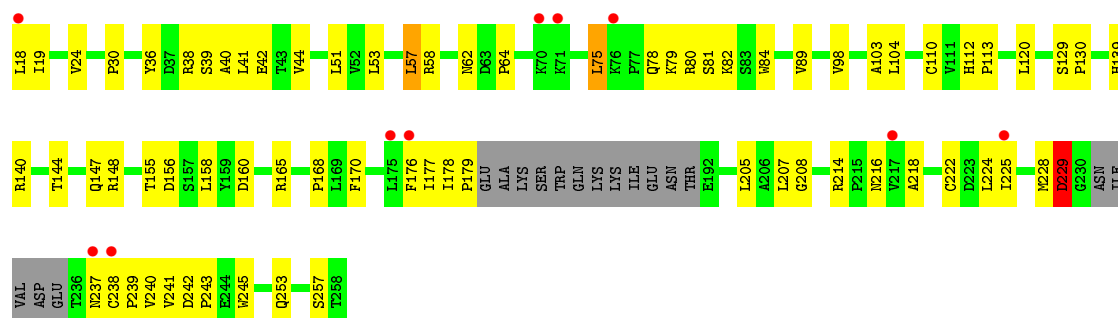
• Molecule 1: DNA REPAIR PROTEIN RHP9

Chain A: 



• Molecule 1: DNA REPAIR PROTEIN RHP9

Chain B: 



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	56.89Å 73.73Å 66.77Å 90.00° 110.98° 90.00°	Depositor
Resolution (Å)	35.00 – 2.30 53.12 – 2.30	Depositor EDS
% Data completeness (in resolution range)	99.9 (35.00-2.30) 99.8 (53.12-2.30)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.64 (at 2.29Å)	Xtriage
Refinement program	PHENIX (PHENIX.REFINE)	Depositor
R, R_{free}	0.189 , 0.249 0.184 , 0.243	Depositor DCC
R_{free} test set	1178 reflections (5.13%)	DCC
Wilson B-factor (Å ²)	43.0	Xtriage
Anisotropy	0.343	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 58.9	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Outliers	0 of 23006 reflections	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	3617	wwPDB-VP
Average B, all atoms (Å ²)	55.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.26% 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, 0.375 respectively for untwinned datasets, and 0.333, 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: PR

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	0.30	0/1774	0.52	1/2417 (0.0%)
1	B	0.31	0/1801	0.79	1/2447 (0.0%)
All	All	0.31	0/3575	0.67	2/4864 (0.0%)

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	179	PRO	CA-C-O	-30.56	46.87	120.20
1	A	217	VAL	CB-CA-C	5.60	122.05	111.40

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	1728	0	1642	61	0
1	B	1756	0	1702	54	0
2	A	3	0	0	0	0
3	A	71	0	0	6	0
3	B	59	0	0	10	0
All	All	3617	0	3344	113	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 (113) 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:217:VAL:HG22	1:A:218:ALA:HA	1.24	1.19
1:A:217:VAL:CG2	1:A:218:ALA:HA	1.90	1.00
1:A:219:HIS:HB3	1:A:220:LEU:HA	1.55	0.88
1:A:217:VAL:HG22	1:A:218:ALA:CA	2.04	0.87
1:A:217:VAL:HG13	1:A:218:ALA:HB2	1.59	0.84
1:A:110:CYS:H	1:A:147:GLN:HE22	1.22	0.83
1:A:248:GLU:HB3	1:A:256:ILE:HD12	1.65	0.76
1:B:110:CYS:H	1:B:147:GLN:HE22	1.31	0.76
1:B:156:ASP:HB3	1:B:160:ASP:HB2	1.67	0.75
1:A:117:LYS:O	1:A:121[B]:LYS:HG2	1.86	0.75
1:A:217:VAL:HG13	1:A:218:ALA:CB	2.16	0.75
1:B:44:VAL:HG11	1:B:120:LEU:HD11	1.69	0.75
1:B:140:ARG:HD2	3:B:2038:HOH:O	1.86	0.74
1:A:219:HIS:CB	1:A:220:LEU:HA	2.21	0.70
1:A:217:VAL:CB	1:A:218:ALA:HA	2.19	0.70
1:B:38:ARG:O	1:B:42:GLU:HG3	1.94	0.68
1:B:228:MET:O	1:B:229:ASP:HB2	1.94	0.67
1:B:112:HIS:CG	1:B:113:PRO:HD2	2.31	0.64
1:A:129:SER:HB3	1:B:148:ARG:CD	2.30	0.62
1:B:64:PRO:HG3	1:B:75:LEU:HD11	1.83	0.61
1:B:19:ILE:HD12	1:B:120:LEU:HD23	1.83	0.60
1:A:153:ASP:OD2	1:A:155:THR:HG22	2.02	0.59
1:B:24:VAL:HG11	1:B:53:LEU:HD12	1.84	0.59
1:B:53:LEU:HB2	3:B:2014:HOH:O	2.01	0.58
1:A:121[A]:LYS:HG2	1:A:122:MET:HE3	1.86	0.57
1:A:177:ILE:HA	1:A:214:ARG:O	2.04	0.57
1:A:217:VAL:HG13	1:A:218:ALA:CA	2.35	0.56
1:B:139[B]:HIS:CD2	3:B:2036:HOH:O	2.58	0.56
1:A:64:PRO:HA	1:A:72:LEU:HD23	1.88	0.56
1:B:40:ALA:O	1:B:44:VAL:HG23	2.06	0.55
1:A:241:VAL:HG13	1:A:245:TRP:HB3	1.88	0.55
1:A:112:HIS:CG	1:A:113:PRO:HD2	2.41	0.55
1:A:176:PHE:CE1	1:A:226:LEU:HD13	2.42	0.55
1:A:226:LEU:HG	1:A:241:VAL:HG12	1.89	0.55
1:A:89:VAL:HG21	1:A:103:ALA:HB2	1.88	0.54
1:B:170:PHE:HA	1:B:208:GLY:O	2.08	0.53
1:B:216:ASN:ND2	1:B:218:ALA:HB2	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:75:LEU:HD13	1:A:205:LEU:HB3	1.90	0.53
1:B:242:ASP:HB2	1:B:243:PRO:CD	2.39	0.53
1:B:228:MET:O	1:B:229:ASP:CB	2.57	0.53
1:B:89:VAL:HG21	1:B:103:ALA:HB2	1.90	0.52
1:B:242:ASP:HB2	1:B:243:PRO:HD2	1.91	0.52
1:B:241:VAL:HG21	1:B:245:TRP:CD1	2.44	0.52
1:B:38:ARG:HG2	1:B:42:GLU:OE1	2.10	0.52
1:A:217:VAL:CG1	1:A:218:ALA:HA	2.39	0.51
1:A:219:HIS:N	1:A:220:LEU:HB2	2.25	0.51
1:A:126:VAL:HG22	3:A:2036:HOH:O	2.10	0.51
1:B:79:LYS:O	1:B:82:LYS:HG3	2.12	0.50
1:B:80:ARG:HD2	3:B:2020:HOH:O	2.10	0.50
1:B:241:VAL:HG22	1:B:245:TRP:HB2	1.94	0.50
1:A:77:PRO:HB2	1:A:159:TYR:CD1	2.47	0.49
1:A:176:PHE:O	1:A:213:ILE:HG23	2.12	0.49
1:B:257:SER:HA	3:B:2055:HOH:O	2.12	0.49
1:A:219:HIS:HB3	1:A:220:LEU:CA	2.35	0.49
1:A:22:ASP:C	1:A:84:TRP:HD1	2.15	0.49
1:A:220:LEU:O	1:A:221:GLU:CB	2.61	0.48
1:A:217:VAL:HG13	1:A:218:ALA:HA	1.95	0.48
1:B:75:LEU:HD13	1:B:205:LEU:HB3	1.95	0.48
1:B:222:CYS:SG	1:B:225:ILE:HG13	2.54	0.48
1:B:241:VAL:HG21	1:B:245:TRP:CG	2.49	0.48
1:B:24:VAL:CG1	1:B:53:LEU:HD12	2.44	0.47
1:B:81:SER:HA	1:B:84:TRP:CE3	2.49	0.47
1:A:177:ILE:HG22	1:A:214:ARG:O	2.14	0.47
1:A:165:ARG:HH22	1:A:253:GLN:HE22	1.63	0.47
1:B:36:TYR:HD2	1:B:41:LEU:HD12	1.80	0.47
1:A:219:HIS:CB	1:A:220:LEU:CA	2.92	0.46
1:A:118:GLN:HB3	3:A:2036:HOH:O	2.15	0.46
1:A:244:GLU:HG2	3:A:2067:HOH:O	2.14	0.46
1:B:64:PRO:CG	1:B:75:LEU:HD11	2.46	0.46
1:B:30:PRO:HG3	1:B:36:TYR:CE1	2.51	0.46
1:A:105:ALA:HB1	1:A:206:ALA:HB3	1.97	0.46
1:B:64:PRO:HG3	1:B:75:LEU:CD1	2.46	0.45
1:B:57:LEU:HD12	3:B:2014:HOH:O	2.15	0.45
1:B:30:PRO:HG3	1:B:36:TYR:CD1	2.51	0.45
1:B:240:VAL:HG12	1:B:241:VAL:N	2.31	0.45
1:A:41:LEU:CD1	1:A:113:PRO:HB3	2.47	0.45
1:B:168:PRO:CG	1:B:207:LEU:HD22	2.47	0.45
1:B:112:HIS:CD2	1:B:113:PRO:HD2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:121[A]:LYS:HG2	1:A:122:MET:CE	2.48	0.44
1:A:217:VAL:HG23	1:A:220:LEU:HD23	2.00	0.43
1:A:248:GLU:HB3	1:A:256:ILE:CD1	2.40	0.43
1:B:176:PHE:HD2	1:B:178:ILE:CG1	2.31	0.43
1:A:170:PHE:HA	1:A:208:GLY:O	2.18	0.43
1:B:98:VAL:HG23	3:B:2026:HOH:O	2.17	0.43
1:A:222:CYS:SG	1:A:223:ASP:N	2.92	0.43
1:A:194:GLY:O	1:A:197:ALA:HB3	2.19	0.42
1:B:62:ASN:HB2	3:B:2018:HOH:O	2.19	0.42
1:B:177:ILE:HA	1:B:214:ARG:O	2.19	0.42
1:B:51:LEU:HD12	3:B:2011:HOH:O	2.20	0.42
1:A:18:LEU:HB3	1:A:49:GLY:HA3	2.00	0.42
1:A:219:HIS:HB2	1:A:220:LEU:HD13	2.00	0.42
1:A:36:TYR:CD2	1:A:41:LEU:HD12	2.54	0.42
1:A:96:ARG:NH1	1:A:247:VAL:HG11	2.34	0.42
1:A:219:HIS:H	1:A:220:LEU:HB2	1.84	0.42
1:A:117:LYS:NZ	3:A:2038:HOH:O	2.53	0.42
1:B:129:SER:HB2	1:B:130:PRO:HD3	2.02	0.42
1:A:179:PRO:HG3	1:A:215:PRO:HA	2.00	0.42
1:B:158:LEU:HD23	1:B:158:LEU:HA	1.81	0.41
1:B:58:ARG:HG3	3:B:2013:HOH:O	2.20	0.41
1:B:176:PHE:CD2	1:B:178:ILE:CG1	3.04	0.41
1:B:165:ARG:HH22	1:B:253:GLN:HE22	1.67	0.41
1:A:228:MET:HG2	1:A:228:MET:H	1.58	0.41
1:A:140:ARG:CZ	1:A:256:ILE:HD13	2.49	0.41
1:A:104:LEU:HD12	3:A:2049:HOH:O	2.20	0.41
1:A:129:SER:HB3	1:B:148:ARG:HD3	2.01	0.41
1:A:167:GLY:HA3	1:A:207:LEU:O	2.20	0.41
1:A:58:ARG:N	1:A:59:PRO:CD	2.82	0.41
1:B:112:HIS:ND1	1:B:113:PRO:HD2	2.36	0.41
1:B:176:PHE:CD2	1:B:178:ILE:HG12	2.56	0.40
1:B:168:PRO:HG2	1:B:207:LEU:HD22	2.04	0.40
1:A:179:PRO:HG3	1:A:215:PRO:CA	2.51	0.40
1:A:114:GLN:NE2	3:A:2039:HOH:O	2.50	0.40
1:A:41:LEU:O	1:A:44:VAL:HG12	2.21	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	221/241 (92%)	204 (92%)	12 (5%)	5 (2%)	8	6
1	B	219/241 (91%)	206 (94%)	8 (4%)	5 (2%)	8	6
All	All	440/482 (91%)	410 (93%)	20 (4%)	10 (2%)	8	6

All (10) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	217	VAL
1	A	221	GLU
1	A	231	ASN
1	A	234	ASP
1	B	229	ASP
1	A	232	ILE
1	B	155	THR
1	B	237	ASN
1	B	238	CYS
1	B	239	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	179/216 (83%)	163 (91%)	16 (9%)	12	14
1	B	187/216 (87%)	178 (95%)	9 (5%)	31	42
All	All	366/432 (85%)	341 (93%)	25 (7%)	19	25

All (25) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	18	LEU
1	A	21	ASP
1	A	44	VAL
1	A	57	LEU
1	A	74	HIS
1	A	75	LEU
1	A	104	LEU
1	A	142	ASP
1	A	148	ARG
1	A	176	PHE
1	A	219	HIS
1	A	222	CYS
1	A	226	LEU
1	A	228	MET
1	A	241	VAL
1	A	257	SER
1	B	18	LEU
1	B	39	SER
1	B	57	LEU
1	B	75	LEU
1	B	78	GLN
1	B	104	LEU
1	B	144	THR
1	B	224	LEU
1	B	229	ASP

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	32	HIS
1	A	46	GLN
1	A	74	HIS
1	A	147	GLN
1	A	253	GLN
1	B	46	GLN
1	B	69	GLN
1	B	147	GLN
1	B	253	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 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 [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	225/241 (93%)	0.57	23 (10%) 9 13	25, 49, 112, 126	0
1	B	224/241 (92%)	0.29	10 (4%) 37 46	27, 51, 89, 110	0
All	All	449/482 (93%)	0.43	33 (7%) 18 25	25, 50, 105, 126	0

All (33) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	72	LEU	6.4
1	A	176	PHE	6.2
1	A	226	LEU	5.2
1	A	211	VAL	5.0
1	A	74	HIS	4.7
1	A	233	VAL	4.7
1	A	73	ARG	4.2
1	B	71	LYS	3.9
1	A	229	ASP	3.8
1	A	238	CYS	3.8
1	B	176	PHE	3.7
1	B	217	VAL	3.6
1	A	258	THR	3.5
1	B	18	LEU	3.4
1	A	225	ILE	3.3
1	B	238	CYS	3.0
1	A	174	ILE	2.8
1	A	222	CYS	2.8
1	A	228	MET	2.8
1	B	225	ILE	2.6
1	A	221	GLU	2.6
1	B	237	ASN	2.4
1	B	70	LYS	2.4
1	B	175	LEU	2.3

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Mol	Chain	Res	Type	RSRZ
1	A	215	PRO	2.3
1	A	213	ILE	2.2
1	A	194	GLY	2.2
1	A	175	LEU	2.2
1	A	214	ARG	2.2
1	A	217	VAL	2.1
1	A	224	LEU	2.1
1	B	76	LYS	2.1
1	A	232	ILE	2.1

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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(Å ²)	Q<0.9
2	PR	A	1259	1/1	0.99	0.15	-0.72	44,44,44,44	0
2	PR	A	1261	1/1	0.99	0.10	-	62,62,62,62	1
2	PR	A	1260	1/1	0.96	0.15	-	57,57,57,57	0

6.5 Other polymers [i](#)

There are no such residues in this entry.