



Full wwPDB X-ray Structure Validation Report ⓘ

Jan 4, 2024 – 06:02 PM EST

PDB ID : 8TWD
Title : Structure of IraM-bound RssB
Authors : Brugger, C.; Deaconescu, A.M.
Deposited on : 2023-08-20
Resolution : 3.30 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 : 2.36
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) : 2.36

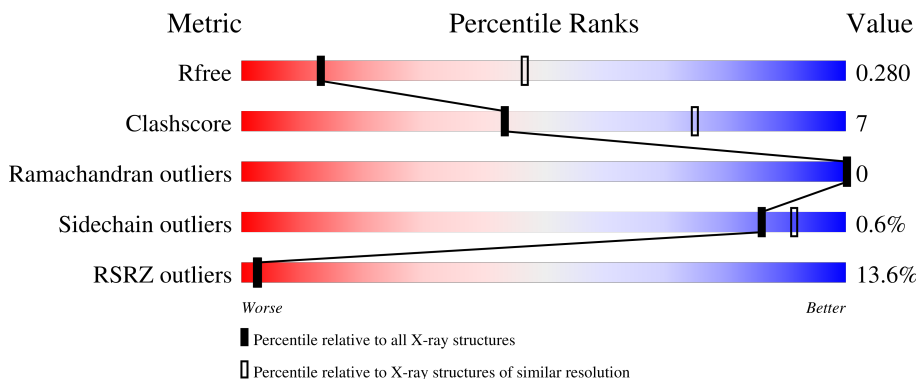
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.30 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	1149 (3.34-3.26)
Clashscore	141614	1205 (3.34-3.26)
Ramachandran outliers	138981	1183 (3.34-3.26)
Sidechain outliers	138945	1182 (3.34-3.26)
RSRZ outliers	127900	1115 (3.34-3.26)

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	81	 2% 84% 15%
1	B	81	 7% 91% 7%
2	C	337	 19% 78% 19%
2	D	337	 12% 81% 17%

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 12956 atoms, of which 6551 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 Anti-adapter protein IraM.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
1	A	80	1315	436	668	99	108	4	0	0	0
1	B	80	1315	436	668	99	108	4	0	0	0

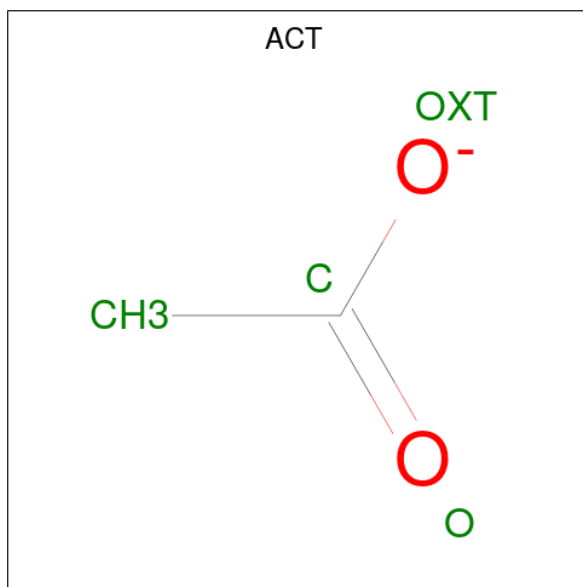
There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-2	GLY	-	expression tag	UNP W8SRD3
A	-1	PRO	-	expression tag	UNP W8SRD3
A	0	HIS	-	expression tag	UNP W8SRD3
B	-2	GLY	-	expression tag	UNP W8SRD3
B	-1	PRO	-	expression tag	UNP W8SRD3
B	0	HIS	-	expression tag	UNP W8SRD3

- Molecule 2 is a protein called Regulator of RpoS.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
2	C	328	5138	1614	2595	449	466	14	0	0	0
2	D	329	5181	1624	2617	457	469	14	0	0	0

- Molecule 3 is ACETATE ION (three-letter code: ACT) (formula: C₂H₃O₂).

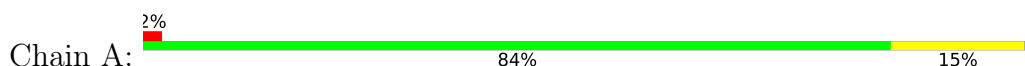


Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	H	O		
3	A	1	7	2	3	2	0	0

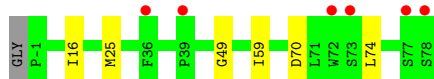
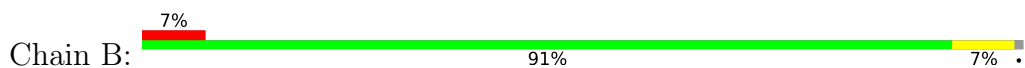
3 Residue-property plots [i](#)

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.

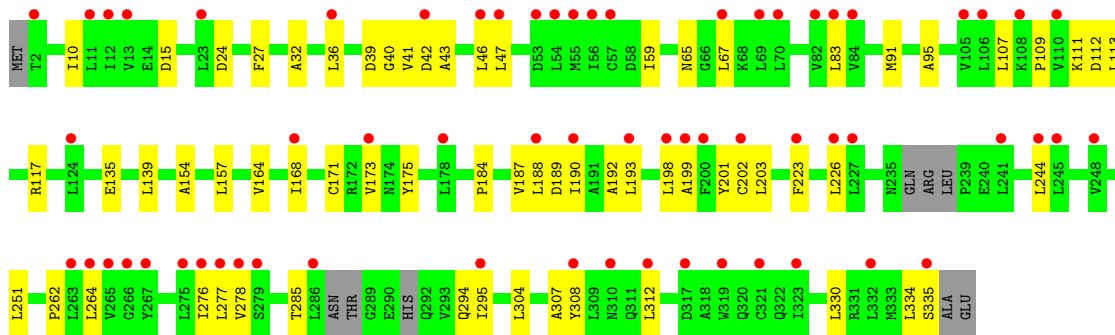
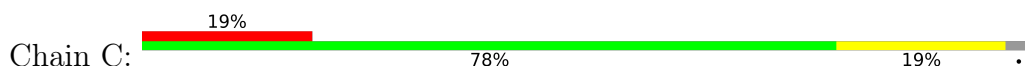
- Molecule 1: Anti-adaptor protein IraM



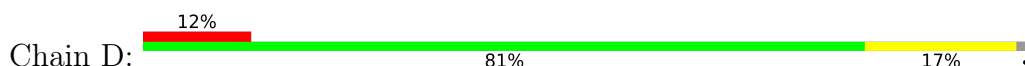
- Molecule 1: Anti-adaptor protein IraM

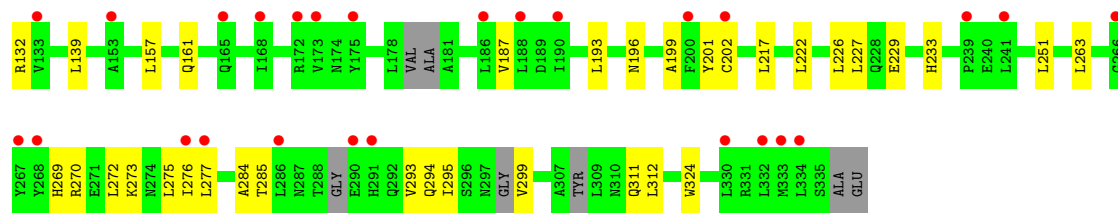


- Molecule 2: Regulator of RpoS



- Molecule 2: Regulator of RpoS





4 Data and refinement statistics

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants a, b, c, α , β , γ	130.66Å 191.23Å 96.98Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	49.33 – 3.30 49.33 – 3.30	Depositor EDS
% Data completeness (in resolution range)	91.6 (49.33-3.30) 91.7 (49.33-3.30)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.44 (at 3.33Å)	Xtrriage
Refinement program	PHENIX 1.20.1_4487	Depositor
R, R_{free}	0.245 , 0.271 0.256 , 0.280	Depositor DCC
R_{free} test set	1868 reflections (10.00%)	wwPDB-VP
Wilson B-factor (Å ²)	119.7	Xtrriage
Anisotropy	0.519	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.38 , 114.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	12956	wwPDB-VP
Average B, all atoms (Å ²)	174.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.83% 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: ACT

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	0.28	0/670	0.45	0/913
1	B	0.28	0/670	0.46	0/913
2	C	0.26	0/2582	0.53	0/3501
2	D	0.27	0/2602	0.53	0/3527
All	All	0.27	0/6524	0.51	0/8854

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	647	668	670	10	0
1	B	647	668	670	4	0
2	C	2543	2595	2593	43	0
2	D	2564	2617	2614	37	0
3	A	4	3	3	0	0
All	All	6405	6551	6550	87	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 7.

All (87) 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:C:304:LEU:HD23	2:C:307:ALA:HA	1.63	0.81
1:A:4:ILE:HG21	2:C:95:ALA:HB2	1.70	0.73
2:D:285:THR:HG22	2:D:294:GLN:HG2	1.70	0.72
1:B:16:ILE:HD11	2:D:217:LEU:HD13	1.76	0.68
2:D:202:CYS:O	2:D:263:LEU:HD12	1.94	0.66
1:A:4:ILE:HD11	2:C:91:MET:HB3	1.79	0.64
1:A:4:ILE:HG12	1:A:42:ILE:HG22	1.80	0.64
2:D:46:LEU:O	2:D:50:PHE:N	2.31	0.63
2:D:11:LEU:HD12	2:D:35:VAL:O	1.98	0.61
2:C:107:LEU:HD12	2:C:109:PRO:O	2.01	0.60
1:A:74:LEU:HD13	2:C:251:LEU:CD2	2.33	0.59
2:D:161:GLN:OE1	2:D:187:VAL:HG13	2.02	0.58
2:D:67:LEU:HD11	2:D:93:ASP:HB3	1.87	0.57
1:A:74:LEU:HD13	2:C:251:LEU:HD21	1.86	0.57
2:C:39:ASP:OD1	2:C:40:GLY:N	2.37	0.57
2:C:264:LEU:HD12	2:C:278:VAL:O	2.05	0.57
2:D:193:LEU:HD11	2:D:199:ALA:HB2	1.88	0.56
2:C:139:LEU:HG	2:D:139:LEU:HD22	1.87	0.55
2:D:112:ASP:OD1	2:D:113:LEU:N	2.39	0.54
2:D:229:GLU:OE2	2:D:233:HIS:NE2	2.40	0.54
2:D:129:PHE:HE2	2:D:132:ARG:HG3	1.72	0.54
2:D:157:LEU:HD21	2:D:187:VAL:HG21	1.90	0.53
1:B:49:GLY:HA2	1:B:59:ILE:HG22	1.90	0.53
2:D:284:ALA:HB3	2:D:295:ILE:HD12	1.90	0.53
2:C:10:ILE:HD13	2:C:27:PHE:CE1	2.45	0.52
2:C:42:ASP:O	2:C:46:LEU:HD13	2.08	0.52
2:D:201:TYR:HB2	2:D:263:LEU:HD11	1.92	0.51
2:D:67:LEU:HD11	2:D:93:ASP:CB	2.40	0.51
2:D:311:GLN:C	2:D:312:LEU:HD12	2.32	0.49
2:D:285:THR:HG23	2:D:324:TRP:CH2	2.47	0.49
2:C:189:ASP:HB3	2:C:201:TYR:CE2	2.48	0.49
2:D:98:LEU:HA	2:D:102:VAL:HG12	1.94	0.49
2:C:188:LEU:HD11	2:C:330:LEU:HD21	1.95	0.48
2:C:334:LEU:HD23	2:C:335:SER:N	2.27	0.48
2:D:275:LEU:HD11	2:D:277:LEU:HD21	1.95	0.48
2:C:24:ASP:HB2	2:C:36:LEU:HD21	1.96	0.48
2:C:223:PHE:CE1	2:C:244:LEU:HD21	2.48	0.48
2:C:157:LEU:HD21	2:C:187:VAL:HG21	1.95	0.48
2:C:198:LEU:C	2:C:198:LEU:HD12	2.34	0.47
2:C:164:VAL:HG13	2:C:175:TYR:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:196:ASN:O	2:D:270:ARG:N	2.45	0.47
2:D:61:MET:O	2:D:65:ASN:N	2.47	0.47
2:D:285:THR:HG23	2:D:324:TRP:CZ3	2.49	0.47
2:C:285:THR:HG22	2:C:294:GLN:HA	1.97	0.46
2:C:188:LEU:HD11	2:C:330:LEU:CD2	2.46	0.46
2:C:168:ILE:HG23	2:C:192:ALA:HB2	1.98	0.46
2:C:277:LEU:HD13	2:C:295:ILE:HD11	1.98	0.45
2:C:113:LEU:O	2:C:117:ARG:HG3	2.17	0.45
2:C:276:ILE:HA	2:C:312:LEU:O	2.17	0.45
2:C:59:ILE:H	2:C:59:ILE:HD12	1.82	0.45
1:B:70:ASP:O	1:B:74:LEU:HD13	2.17	0.44
2:D:42:ASP:O	2:D:46:LEU:HG	2.18	0.44
1:A:46:VAL:HG12	1:A:47:LYS:N	2.31	0.44
1:A:29:ILE:HG22	1:A:64:ILE:HD13	1.99	0.44
2:C:10:ILE:HD12	2:C:32:ALA:HB1	2.00	0.43
2:C:135:GLU:O	2:C:139:LEU:HD23	2.19	0.43
2:D:229:GLU:OE2	2:D:233:HIS:CD2	2.72	0.43
2:C:65:ASN:HB3	2:C:67:LEU:HG	2.00	0.43
2:C:193:LEU:HD11	2:C:199:ALA:HB2	1.99	0.43
2:D:89:GLU:O	2:D:89:GLU:HG3	2.19	0.42
2:D:276:ILE:HA	2:D:312:LEU:O	2.19	0.42
2:C:188:LEU:CD2	2:C:202:CYS:HB2	2.49	0.42
2:D:226:LEU:HD11	2:D:251:LEU:HD11	2.01	0.42
2:C:109:PRO:HB3	2:C:111:LYS:HE2	2.01	0.42
2:D:293:VAL:HG12	2:D:294:GLN:N	2.34	0.42
2:D:269:HIS:O	2:D:273:LYS:N	2.52	0.42
2:C:203:LEU:HD12	2:C:262:PRO:O	2.20	0.42
2:D:54:LEU:HD11	2:D:83:LEU:HG	2.02	0.42
1:A:30:TRP:CD1	1:A:30:TRP:N	2.87	0.42
1:B:25:MET:SD	2:C:139:LEU:HD13	2.60	0.42
2:D:69:LEU:O	2:D:73:ILE:HG12	2.20	0.42
2:C:226:LEU:CD2	2:C:251:LEU:HD11	2.50	0.42
2:D:54:LEU:HD12	2:D:55:MET:H	1.84	0.41
2:C:15:ASP:OD1	2:C:15:ASP:N	2.52	0.41
1:A:50:ILE:HD12	1:A:59:ILE:HD12	2.02	0.41
2:C:40:GLY:O	2:C:43:ALA:HB3	2.21	0.41
2:C:112:ASP:OD1	2:C:112:ASP:N	2.54	0.41
2:C:154:ALA:HB1	2:C:184:PRO:HG3	2.01	0.41
2:C:173:VAL:HG11	2:C:190:ILE:HD13	2.03	0.41
2:D:3:GLN:N	2:D:4:PRO:CD	2.84	0.41
1:A:69:LYS:HD2	1:A:69:LYS:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:41:VAL:HG23	2:C:42:ASP:N	2.36	0.40
2:C:171:CYS:HB3	2:C:334:LEU:HD21	2.04	0.40
2:D:269:HIS:CD2	2:D:272:LEU:HD23	2.57	0.40
2:C:83:LEU:HD23	2:C:83:LEU:C	2.42	0.40
2:D:199:ALA:CB	2:D:227:LEU:HD23	2.51	0.40
2:D:299:VAL:HG13	2:D:299:VAL:O	2.21	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	78/81 (96%)	75 (96%)	3 (4%)	0	100	100
1	B	78/81 (96%)	76 (97%)	2 (3%)	0	100	100
2	C	320/337 (95%)	302 (94%)	18 (6%)	0	100	100
2	D	319/337 (95%)	303 (95%)	16 (5%)	0	100	100
All	All	795/836 (95%)	756 (95%)	39 (5%)	0	100	100

There are no Ramachandran outliers to report.

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	74/74 (100%)	73 (99%)	1 (1%)	67	82
1	B	74/74 (100%)	74 (100%)	0	100	100
2	C	274/282 (97%)	272 (99%)	2 (1%)	84	90
2	D	278/282 (99%)	277 (100%)	1 (0%)	91	95
All	All	700/712 (98%)	696 (99%)	4 (1%)	86	91

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	14	CYS
2	C	47	LEU
2	C	308	TYR
2	D	222	LEU

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](#)

1 ligand is modelled in this entry.

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
3	ACT	A	101	-	3,3,3	1.37	0	3,3,3	1.36	0

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	80/81 (98%)	0.61	2 (2%) 57 54	93, 115, 158, 233	0
1	B	80/81 (98%)	0.85	6 (7%) 14 13	92, 117, 166, 195	0
2	C	328/337 (97%)	0.86	63 (19%) 1 1	95, 170, 224, 266	0
2	D	329/337 (97%)	0.84	40 (12%) 4 3	90, 162, 220, 278	0
All	All	817/836 (97%)	0.83	111 (13%) 3 2	90, 156, 220, 278	0

All (111) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	C	54	LEU	5.3
2	C	241	LEU	5.0
2	C	277	LEU	4.9
2	D	190	ILE	4.6
2	C	265	VAL	4.6
2	D	188	LEU	4.5
2	D	267	TYR	4.5
2	C	275	LEU	4.3
2	C	310	ASN	4.2
2	C	198	LEU	4.1
2	C	278	VAL	3.9
2	C	83	LEU	3.9
2	C	332	LEU	3.9
2	D	286	LEU	3.9
2	C	47	LEU	3.7
2	D	277	LEU	3.6
2	C	193	LEU	3.6
2	C	55	MET	3.5
2	D	266	GLY	3.5
2	C	312	LEU	3.5
2	C	190	ILE	3.4

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Mol	Chain	Res	Type	RSRZ
2	C	264	LEU	3.4
2	C	321	CYS	3.4
2	C	46	LEU	3.4
2	C	13	VAL	3.4
2	C	200	PHE	3.3
2	C	266	GLY	3.3
2	C	227	LEU	3.3
1	B	78	SER	3.2
2	C	319	TRP	3.2
2	C	57	CYS	3.2
2	C	42	ASP	3.2
2	C	267	TYR	3.2
1	B	36	PHE	3.1
2	D	268	TYR	3.0
2	C	84	VAL	3.0
2	C	279	SER	3.0
2	C	323	ILE	3.0
2	C	2	THR	2.9
2	C	223	PHE	2.8
2	C	12	ILE	2.8
2	C	335	SER	2.8
2	D	333	MET	2.8
2	D	175	TYR	2.8
2	D	63	ARG	2.8
1	B	77	SER	2.8
1	A	14	CYS	2.8
2	D	47	LEU	2.7
2	C	248	VAL	2.7
2	C	124	LEU	2.7
2	D	239	PRO	2.7
2	C	188	LEU	2.6
2	D	200	PHE	2.6
2	C	295	ILE	2.6
2	D	290	GLU	2.6
2	D	276	ILE	2.6
2	C	56	ILE	2.6
2	D	11	LEU	2.6
2	D	330	LEU	2.6
2	D	332	LEU	2.6
2	C	105	VAL	2.6
2	C	173	VAL	2.6
2	D	173	VAL	2.6

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Mol	Chain	Res	Type	RSRZ
2	D	12	ILE	2.6
2	C	82	VAL	2.5
1	B	73	SER	2.5
2	D	8	LYS	2.5
2	C	286	LEU	2.5
2	D	124	LEU	2.5
2	D	37	ALA	2.5
2	D	42	ASP	2.5
2	C	202	CYS	2.4
2	C	106	LEU	2.4
2	D	13	VAL	2.4
2	C	245	LEU	2.4
2	C	168	ILE	2.4
2	C	244	LEU	2.4
1	A	78	SER	2.4
2	C	11	LEU	2.4
2	C	23	LEU	2.4
2	C	178	LEU	2.4
2	C	276	ILE	2.4
2	D	10	ILE	2.4
2	D	40	GLY	2.3
2	D	46	LEU	2.3
2	D	291	HIS	2.3
2	C	69	LEU	2.3
2	D	186	LEU	2.3
2	C	67	LEU	2.2
2	C	199	ALA	2.2
2	C	226	LEU	2.2
2	C	108	LYS	2.2
2	D	133	VAL	2.1
2	C	317	ASP	2.1
2	D	334	LEU	2.1
2	C	263	LEU	2.1
2	D	5	LEU	2.1
2	D	172	ARG	2.1
2	D	202	CYS	2.1
1	B	72	TRP	2.1
2	C	110	VAL	2.1
2	C	53	ASP	2.0
2	C	36	LEU	2.0
2	C	70	LEU	2.0
2	D	165	GLN	2.0

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Mol	Chain	Res	Type	RSRZ
2	D	168	ILE	2.0
1	B	39	PRO	2.0
2	C	308	TYR	2.0
2	D	153	ALA	2.0
2	D	241	LEU	2.0
2	D	27	PHE	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
3	ACT	A	101	4/4	0.82	0.35	94,99,114,114	0

6.5 Other polymers [i](#)

There are no such residues in this entry.