



Full wwPDB X-ray Structure Validation Report ⓘ

Oct 25, 2022 – 05:46 PM EDT

PDB ID : 7FLT
Title : PanDDA analysis group deposition – Aar2/RNaseH in complex with fragment P05G04 from the F2X-Universal Library
Authors : Barthel, T.; Wollenhaupt, J.; Lima, G.M.A.; Wahl, M.C.; Weiss, M.S.
Deposited on : 2022-08-26
Resolution : 1.73 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 : 2.31.2
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) : 2.31.2

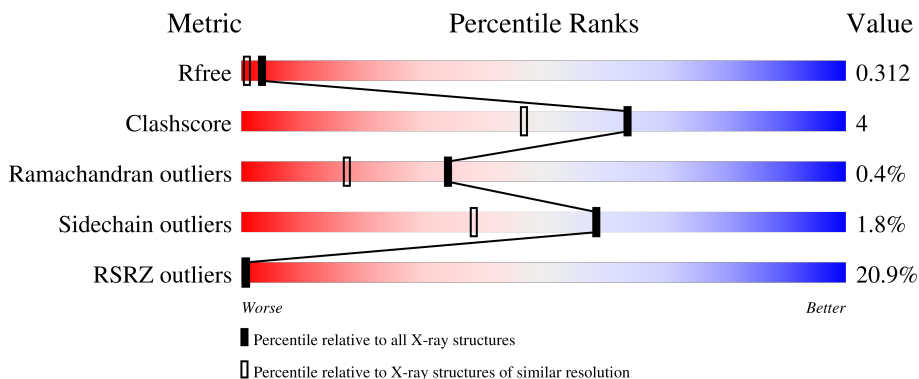
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.73 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	3764 (1.76-1.72)
Clashscore	141614	3923 (1.76-1.72)
Ramachandran outliers	138981	3878 (1.76-1.72)
Sidechain outliers	138945	3878 (1.76-1.72)
RSRZ outliers	127900	3705 (1.76-1.72)

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	258	 18% (red), 81% (green), 9% (yellow), 8% (grey)
2	B	308	 21% (red), 85% (green), 12% (yellow), 8% (grey)

2 Entry composition i

There are 4 unique types of molecules in this entry. The entry contains 9205 atoms, of which 4524 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-splicing factor 8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
1	A	237	4068	1287	2060	336	373	12	0	21	0

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1833	GLY	-	expression tag	UNP P33334
A	1834	ALA	-	expression tag	UNP P33334
A	1835	MET	-	expression tag	UNP P33334

- Molecule 2 is a protein called A1 cistron-splicing factor AAR2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	H	N	O				S
2	B	300	5044	1654	2464	421	485	20	0	17	0

There are 20 discrepancies between the modelled and reference sequences:

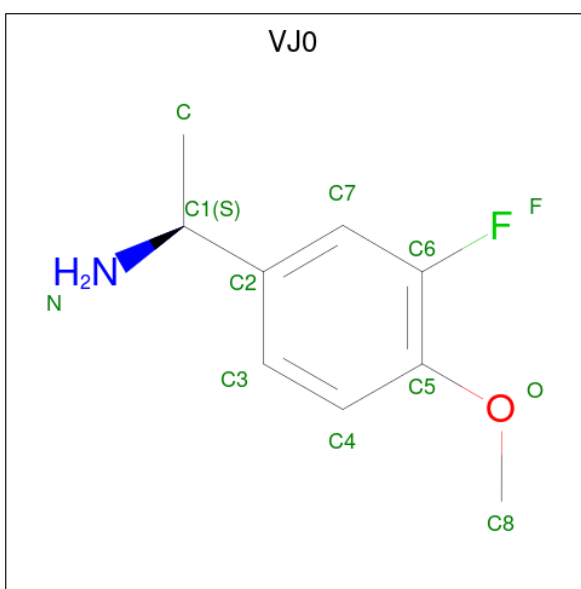
Chain	Residue	Modelled	Actual	Comment	Reference
B	-3	GLY	-	expression tag	UNP P32357
B	-2	ALA	-	expression tag	UNP P32357
B	-1	MET	-	expression tag	UNP P32357
B	0	ALA	-	expression tag	UNP P32357
B	166	SER	LEU	conflict	UNP P32357
B	167	SER	LYS	conflict	UNP P32357
B	?	-	LEU	deletion	UNP P32357
B	?	-	GLN	deletion	UNP P32357
B	?	-	LYS	deletion	UNP P32357
B	?	-	ALA	deletion	UNP P32357
B	?	-	GLY	deletion	UNP P32357
B	?	-	SER	deletion	UNP P32357
B	?	-	LYS	deletion	UNP P32357

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Chain	Residue	Modelled	Actual	Comment	Reference
B	?	-	MET	deletion	UNP P32357
B	?	-	GLU	deletion	UNP P32357
B	?	-	ALA	deletion	UNP P32357
B	?	-	LYS	deletion	UNP P32357
B	?	-	ASN	deletion	UNP P32357
B	?	-	GLU	deletion	UNP P32357
B	170	SER	ASP	conflict	UNP P32357

- Molecule 3 is (1S)-1-(3-fluoro-4-methoxyphenyl)ethan-1-amine (three-letter code: VJ0) (formula: C₉H₁₂FNO).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	B	1	Total	C	F	N	O	0	0
			12	9	1	1	1		
3	B	1	Total	C	F	N	O	0	0
			12	9	1	1	1		

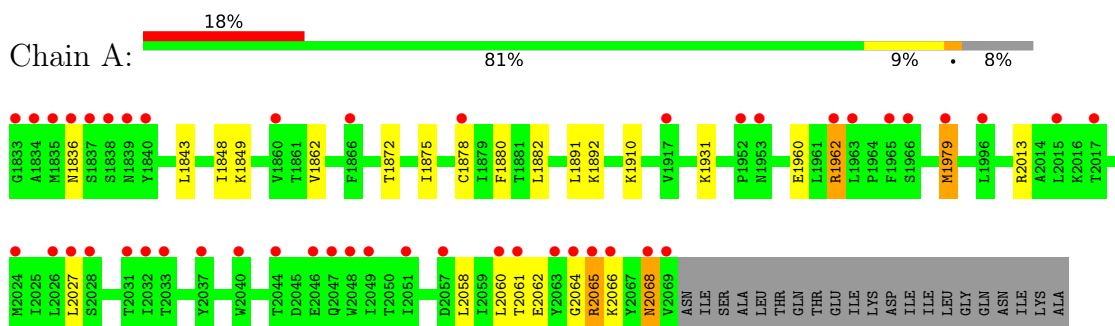
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	29	Total	O	0	0
			29	29		
4	B	40	Total	O	0	0
			40	40		

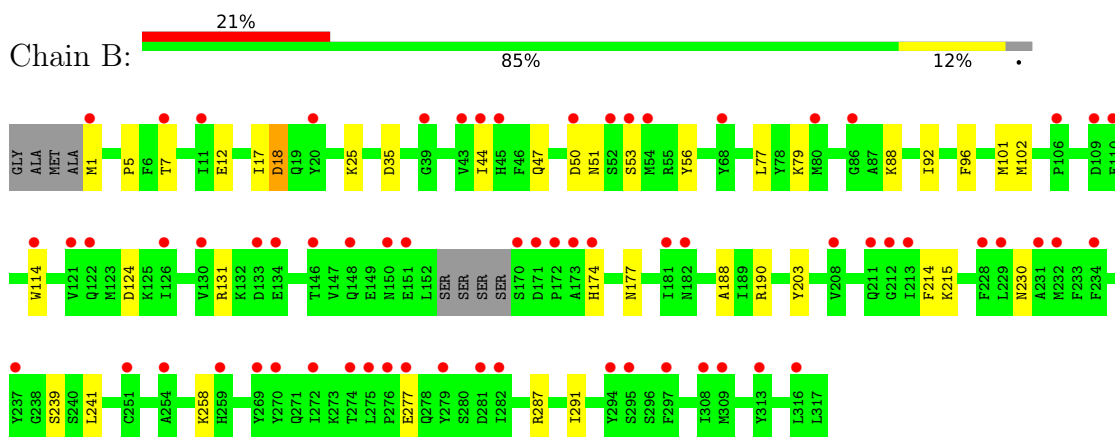
3 Residue-property plots [i](#)

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-splicing factor 8



- Molecule 2: A1 cistron-splicing factor AAR2



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	87.84Å 81.78Å 93.47Å 90.00° 107.98° 90.00°	Depositor
Resolution (Å)	43.30 – 1.73 43.30 – 1.73	Depositor EDS
% Data completeness (in resolution range)	98.5 (43.30-1.73) 98.6 (43.30-1.73)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.94 (at 1.73Å)	Xtrriage
Refinement program	PHENIX 1.17.1_3660	Depositor
R, R_{free}	0.259 , 0.305 0.266 , 0.312	Depositor DCC
R_{free} test set	2095 reflections (3.25%)	wwPDB-VP
Wilson B-factor (Å ²)	43.0	Xtrriage
Anisotropy	0.311	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.38 , 49.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.34$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	9205	wwPDB-VP
Average B, all atoms (Å ²)	76.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.16% 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: VJ0

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	0.73	2/2149 (0.1%)	0.80	2/2911 (0.1%)
2	B	0.83	2/2739 (0.1%)	0.85	5/3699 (0.1%)
All	All	0.79	4/4888 (0.1%)	0.83	7/6610 (0.1%)

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	5	PRO	N-CA	11.50	1.66	1.47
1	A	1880	PHE	CE2-CZ	7.79	1.52	1.37
2	B	56	TYR	CD2-CE2	5.94	1.48	1.39
1	A	1880	PHE	CD2-CE2	-5.25	1.28	1.39

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	5	PRO	CA-N-CD	-6.67	102.16	111.50
2	B	7	THR	CA-C-O	-6.61	106.23	120.10
2	B	18	ASP	CB-CG-OD2	-6.23	112.69	118.30
2	B	241	LEU	CB-CG-CD1	-5.93	100.92	111.00
1	A	1891	LEU	CB-CG-CD2	5.35	120.10	111.00
1	A	1882	LEU	CB-CG-CD1	-5.08	102.36	111.00
2	B	5	PRO	N-CA-C	-5.03	99.03	112.10

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	2008	2060	1974	13	0
2	B	2580	2464	2398	25	0
3	B	24	0	0	0	0
4	A	29	0	0	1	0
4	B	40	0	0	1	0
All	All	4681	4524	4372	38	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 4.

All (38) 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:1962:ARG:O	1:A:2013:ARG:NH1	2.18	0.77
2:B:17:ILE:HD13	2:B:44[B]:ILE:HG12	1.73	0.70
1:A:2061:THR:O	1:A:2064:GLY:N	2.25	0.70
2:B:96:PHE:HB2	2:B:102:MET:HE3	1.76	0.68
2:B:17:ILE:HD13	2:B:44[B]:ILE:CG1	2.29	0.62
2:B:50:ASP:OD1	2:B:51:ASN:N	2.36	0.59
2:B:1:MET:HB3	2:B:35:ASP:HA	1.86	0.56
2:B:12:GLU:HG3	2:B:25:LYS:HA	1.91	0.53
2:B:96:PHE:HB2	2:B:102:MET:CE	2.39	0.52
2:B:258:LYS:HD2	2:B:258:LYS:H	1.75	0.51
1:A:1848:ILE:H	1:A:1931[A]:LYS:HZ2	1.59	0.50
2:B:230[B]:ASN:ND2	2:B:239:SER:OG	2.44	0.50
2:B:17:ILE:O	2:B:17:ILE:HG23	2.11	0.50
2:B:51:ASN:OD1	2:B:53:SER:HB2	2.12	0.49
2:B:1:MET:N	4:B:503:HOH:O	2.45	0.49
1:A:1875:ILE:HD12	1:A:1979[B]:MET:HE1	1.95	0.48
2:B:96:PHE:CB	2:B:102:MET:CE	2.91	0.48
1:A:2064:GLY:O	1:A:2068:ASN:N	2.47	0.47
2:B:277:GLU:CD	2:B:277:GLU:H	2.18	0.47
1:A:1910:LYS:NZ	4:A:2102:HOH:O	2.48	0.46
2:B:96:PHE:CB	2:B:102:MET:HE2	2.44	0.46
1:A:1843:LEU:HA	1:A:1849:LYS:HD2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1862:VAL:HG22	1:A:1872:THR:HG22	1.97	0.46
2:B:131:ARG:HH21	2:B:177[B]:ASN:ND2	2.14	0.46
1:A:2062:GLU:OE1	1:A:2065:ARG:NH1	2.51	0.43
1:A:2058:LEU:C	1:A:2058:LEU:HD23	2.39	0.43
2:B:18:ASP:HB3	2:B:114:TRP:CE3	2.53	0.43
1:A:2064:GLY:O	1:A:2066:LYS:N	2.52	0.43
2:B:96:PHE:HB3	2:B:102:MET:HE2	2.01	0.43
2:B:214:PHE:O	2:B:215:LYS:HB2	2.19	0.42
2:B:287:ARG:O	2:B:291:ILE:HD13	2.20	0.42
2:B:131:ARG:HG3	2:B:177[A]:ASN:ND2	2.36	0.41
1:A:1836:ASN:HB3	1:A:1960[A]:GLU:HB2	2.02	0.41
2:B:92:ILE:HD13	2:B:92:ILE:HA	1.83	0.41
1:A:1878:CYS:HA	1:A:1892:LYS:O	2.21	0.41
2:B:77:LEU:HD21	2:B:79:LYS:HE3	2.03	0.41
2:B:190:ARG:HG3	2:B:203[B]:TYR:CZ	2.56	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	258/258 (100%)	243 (94%)	13 (5%)	2 (1%)	19 6
2	B	315/308 (102%)	301 (96%)	14 (4%)	0	100 100
All	All	573/566 (101%)	544 (95%)	27 (5%)	2 (0%)	34 23

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	2065	ARG
1	A	2068	ASN

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	237/233 (102%)	231 (98%)	6 (2%)	47	24
2	B	294/284 (104%)	289 (98%)	5 (2%)	60	41
All	All	531/517 (103%)	520 (98%)	11 (2%)	59	30

All (11) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1962	ARG
1	A	1979[A]	MET
1	A	1979[B]	MET
1	A	1979[C]	MET
1	A	2027	LEU
1	A	2060	LEU
2	B	47	GLN
2	B	88	LYS
2	B	101	MET
2	B	124	ASP
2	B	174	HIS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
2	B	70	GLN
2	B	135	ASN

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](#)

2 ligands are 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	VJ0	B	402	-	11,12,12	0.36	0	13,16,16	0.32	0
3	VJ0	B	401	-	11,12,12	3.19	6 (54%)	13,16,16	4.79	3 (23%)

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. '2' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	VJ0	B	402	-	-	0/6/6/6	0/1/1/1
3	VJ0	B	401	-	-	0/6/6/6	0/1/1/1

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	401	VJ0	F-C6	-5.37	1.21	1.35
3	B	401	VJ0	C4-C5	4.88	1.49	1.39
3	B	401	VJ0	C3-C2	-4.50	1.31	1.39
3	B	401	VJ0	O-C5	-4.23	1.30	1.37
3	B	401	VJ0	C7-C2	2.91	1.43	1.39
3	B	401	VJ0	C1-N	2.40	1.55	1.48

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	401	VJ0	O-C5-C6	15.21	126.81	116.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	401	VJ0	C3-C2-C1	5.02	129.95	120.80
3	B	401	VJ0	O-C5-C4	-4.84	116.08	124.37

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 [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	237/258 (91%)	1.41	46 (19%) 1 1	37, 65, 116, 153	0
2	B	300/308 (97%)	1.31	66 (22%) 0 0	35, 64, 115, 210	0
All	All	537/566 (94%)	1.35	112 (20%) 1 1	35, 64, 116, 210	0

All (112) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	2027	LEU	13.2
2	B	53	SER	12.8
1	A	2032	ILE	12.3
1	A	2028	SER	9.7
1	A	1833	GLY	8.5
1	A	2044	THR	7.4
2	B	52	SER	7.3
2	B	172	PRO	7.1
1	A	2068	ASN	6.6
2	B	1	MET	6.5
2	B	316	LEU	6.2
1	A	1838	SER	5.3
1	A	2069	VAL	5.2
1	A	2046	GLU	5.1
2	B	170	SER	4.9
1	A	2060	LEU	4.8
2	B	171	ASP	4.7
1	A	2015	LEU	4.7
2	B	54[A]	MET	4.6
1	A	2065	ARG	4.5
1	A	1878	CYS	4.4
2	B	281	ASP	4.4
2	B	295	SER	4.3
2	B	106	PRO	4.2

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Mol	Chain	Res	Type	RSRZ
1	A	1837	SER	4.2
1	A	2047	GLN	4.1
2	B	173	ALA	4.1
2	B	270	TYR	4.0
1	A	2063	TYR	4.0
2	B	274	THR	3.9
1	A	2024[A]	MET	3.9
1	A	1965	PHE	3.9
2	B	228	PHE	3.6
2	B	294	TYR	3.6
1	A	2037	TYR	3.4
2	B	276	PRO	3.4
1	A	1834	ALA	3.4
2	B	20	TYR	3.3
2	B	133	ASP	3.3
2	B	231	ALA	3.3
2	B	282	ILE	3.2
2	B	150	ASN	3.2
1	A	2017[A]	THR	3.2
1	A	2033	THR	3.1
1	A	1860	VAL	3.1
1	A	2026	LEU	3.1
1	A	1836	ASN	3.1
1	A	1839	ASN	3.1
1	A	2040	TRP	3.1
1	A	2066	LYS	3.0
2	B	110	GLU	3.0
1	A	2057[A]	ASP	3.0
2	B	109	ASP	3.0
2	B	134	GLU	3.0
1	A	2064	GLY	2.9
2	B	39	GLY	2.9
2	B	279	TYR	2.9
2	B	50	ASP	2.9
1	A	1835	MET	2.9
2	B	174	HIS	2.8
1	A	2031	THR	2.8
1	A	2049	ILE	2.8
1	A	2048	TRP	2.8
2	B	277	GLU	2.8
2	B	80	MET	2.7
2	B	232	MET	2.7

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Mol	Chain	Res	Type	RSRZ
2	B	212[A]	GLY	2.7
1	A	1966	SER	2.7
2	B	234	PHE	2.7
2	B	308	ILE	2.6
1	A	1962	ARG	2.6
2	B	254	ALA	2.6
2	B	181	ILE	2.6
1	A	1953	ASN	2.6
2	B	43	VAL	2.6
1	A	1866	PHE	2.5
2	B	213	ILE	2.5
1	A	2061	THR	2.5
1	A	1840	TYR	2.5
2	B	211[A]	GLN	2.5
1	A	1952	PRO	2.5
2	B	208	VAL	2.4
2	B	259	HIS	2.4
1	A	1963	LEU	2.3
2	B	313	TYR	2.3
2	B	44[A]	ILE	2.3
2	B	229	LEU	2.3
1	A	1979[A]	MET	2.3
2	B	272	ILE	2.3
2	B	146	THR	2.3
2	B	297	PHE	2.3
2	B	269	TYR	2.3
2	B	148	GLN	2.2
1	A	2051	ILE	2.2
2	B	182	ASN	2.2
2	B	122[A]	GLN	2.2
2	B	114	TRP	2.2
2	B	237	TYR	2.1
2	B	68	TYR	2.1
2	B	11	ILE	2.1
2	B	86	GLY	2.1
1	A	1996	LEU	2.1
2	B	275	LEU	2.1
2	B	126	ILE	2.1
2	B	7	THR	2.1
2	B	309	MET	2.1
2	B	251	CYS	2.1
2	B	45[A]	HIS	2.1

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Mol	Chain	Res	Type	RSRZ
1	A	1917	VAL	2.0
2	B	121	VAL	2.0
2	B	151	GLU	2.0
2	B	130	VAL	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	VJ0	B	402	12/12	0.84	0.20	20,20,20,20	12
3	VJ0	B	401	12/12	0.91	0.20	20,20,20,20	12

6.5 Other polymers [i](#)

There are no such residues in this entry.