



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 4, 2026 – 09:47 PM UTC

PDB ID : 7FO6 / pdb_00007fo6
Title : PanDDA analysis group deposition – Aar2/RNaseH in complex with fragment P07H04 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 : 1.57 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
Mogul	:	2022.3.0, CSD as543be (2022)
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

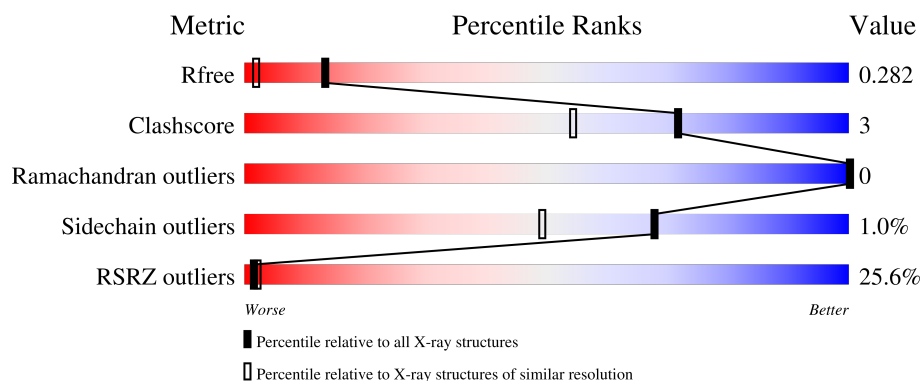
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.57 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	1094 (1.58-1.58)
Clashscore	190562	1105 (1.58-1.58)
Ramachandran outliers	187476	1082 (1.58-1.58)
Sidechain outliers	187428	1081 (1.58-1.58)
RSRZ outliers	180081	1094 (1.58-1.58)

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	24% 88% 9% ..
2	B	308	26% 87% 10% .

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 9366 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	255	4205	1372	2060	359	402	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	11	17	0

There are 20 discrepancies between the modelled and reference sequences:

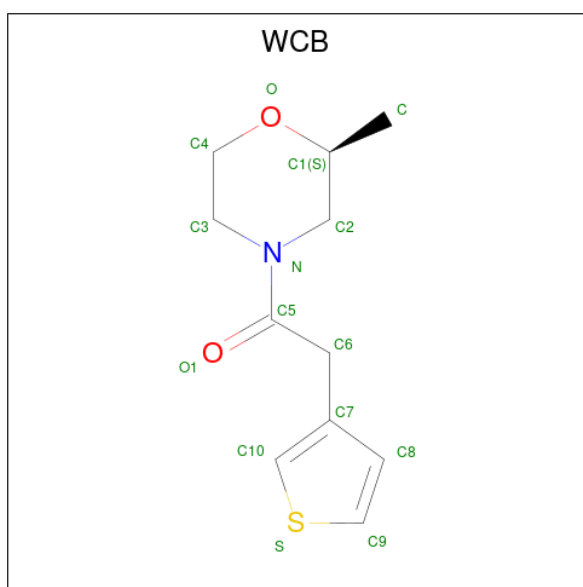
Chain	Residue	Modelled	Actual	Comment	Reference
B	-3	GLY	-	expression tag	UNP P32357
B	-2	ALA	-	expression tag	UNP P32357
B	-1	MET	-	expression tag	UNP P32357
B	0	ALA	-	expression tag	UNP P32357
B	166	SER	LEU	conflict	UNP P32357
B	167	SER	LYS	conflict	UNP P32357
B	?	-	LEU	deletion	UNP P32357
B	?	-	GLN	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 1-[(2S)-2-methylmorpholin-4-yl]-2-(thiophen-3-yl)ethan-1-one (CCD ID: WCB) (formula: C₁₁H₁₅NO₂S).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	N	O	S	0	0
			15	11	1	2	1		
3	B	1	Total	C	N	O	S	0	0
			15	11	1	2	1		

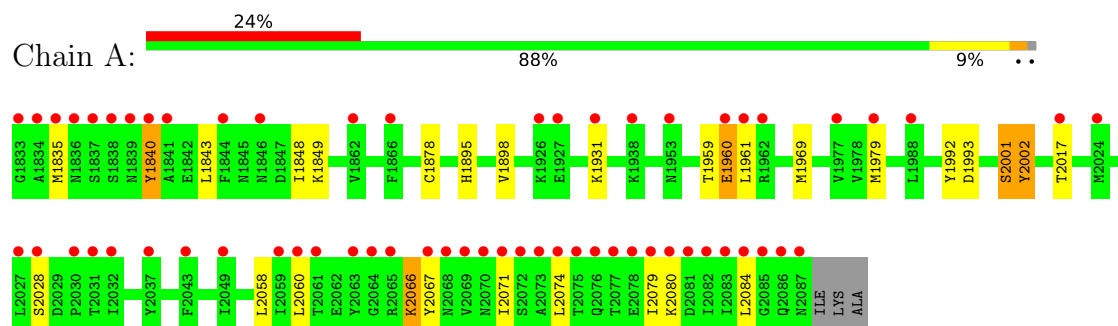
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	43	Total	O	0	0
			43	43		
4	B	44	Total	O	0	0
			44	44		

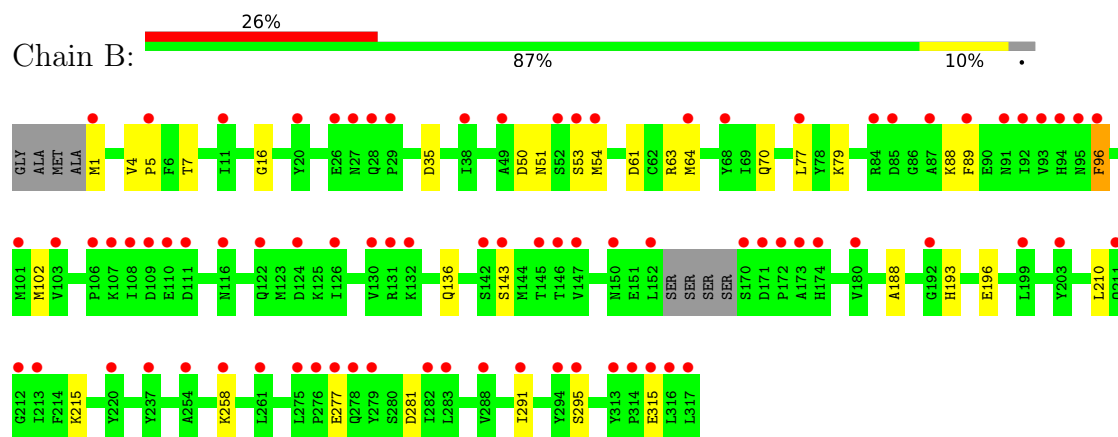
3 Residue-property plots [i](#)

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	89.93Å 81.32Å 93.31Å 90.00° 109.04° 90.00°	Depositor
Resolution (Å)	44.37 – 1.57 44.37 – 1.57	Depositor EDS
% Data completeness (in resolution range)	99.5 (44.37-1.57) 99.9 (44.37-1.57)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.97 (at 1.57Å)	Xtriage
Refinement program	PHENIX 1.17.1 _3660	Depositor
R, R_{free}	0.220 , 0.277 0.245 , 0.282	Depositor DCC
R_{free} test set	2098 reflections (2.36%)	wwPDB-VP
Wilson B-factor (Å ²)	34.9	Xtriage
Anisotropy	0.343	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.43 , 37.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.51$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	9366	wwPDB-VP
Average B, all atoms (Å ²)	51.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.86% 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: WCB

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	0.74	8/2286 (0.3%)	0.93	11/3097 (0.4%)
2	B	0.63	3/2739 (0.1%)	0.84	10/3699 (0.3%)
All	All	0.68	11/5025 (0.2%)	0.88	21/6796 (0.3%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	5

All (11) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	5	PRO	N-CA	15.65	1.66	1.47
1	A	1961[A]	LEU	N-CA	8.54	1.56	1.46
1	A	1961[B]	LEU	N-CA	8.54	1.56	1.46
2	B	4	VAL	C-N	7.93	1.44	1.33
1	A	1960[A]	GLU	C-N	7.37	1.43	1.33
1	A	1960[B]	GLU	C-N	7.37	1.43	1.33
1	A	2002[A]	TYR	N-CA	7.02	1.54	1.46
1	A	2002[B]	TYR	N-CA	7.02	1.54	1.46
1	A	2001[A]	SER	C-N	6.65	1.42	1.33
1	A	2001[B]	SER	C-N	6.65	1.42	1.33
2	B	7	THR	C-O	-5.74	1.17	1.24

All (21) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	4	VAL	CA-C-N	15.59	135.35	119.76
2	B	4	VAL	C-N-CA	15.59	135.35	119.76
2	B	5	PRO	CB-CA-C	7.76	121.54	111.21
2	B	5	PRO	CA-N-CD	-7.10	102.06	112.00
2	B	5	PRO	N-CA-C	-7.00	100.20	111.19
1	A	2001[A]	SER	CA-C-N	-6.84	111.11	120.28
1	A	2001[A]	SER	C-N-CA	-6.84	111.11	120.28
1	A	2001[B]	SER	CA-C-N	-6.84	111.11	120.28
1	A	2001[B]	SER	C-N-CA	-6.84	111.11	120.28
1	A	1840	TYR	CB-CA-C	-6.80	99.49	110.79
1	A	1960[A]	GLU	CA-C-N	-6.66	111.26	120.71
1	A	1960[A]	GLU	C-N-CA	-6.66	111.26	120.71
1	A	1960[B]	GLU	CA-C-N	-6.66	111.26	120.71
1	A	1960[B]	GLU	C-N-CA	-6.66	111.26	120.71
2	B	96	PHE	CA-CB-CG	6.48	120.28	113.80
2	B	7	THR	N-CA-C	-5.99	104.75	111.28
2	B	70	GLN	CB-CA-C	-5.94	99.26	109.65
1	A	1959	THR	O-C-N	-5.80	116.63	123.41
2	B	89	PHE	CA-C-O	-5.78	114.93	121.00
2	B	88	LYS	N-CA-C	-5.38	105.33	111.14
1	A	2079	ILE	O-C-N	5.18	127.28	121.90

There are no chirality outliers.

All (5) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1960[A]	GLU	Mainchain
1	A	1960[B]	GLU	Mainchain
1	A	2001[A]	SER	Mainchain
1	A	2001[B]	SER	Mainchain
1	A	2017[A]	THR	Mainchain

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5.2 Torsion angles ⓘ

5.2.1 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	276/258 (107%)	270 (98%)	6 (2%)	0	100	100
2	B	315/308 (102%)	301 (96%)	14 (4%)	0	100	100
All	All	591/566 (104%)	571 (97%)	20 (3%)	0	100	100

There are no Ramachandran outliers to report.

5.2.2 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	253/233 (109%)	251 (99%)	2 (1%)	73	57
2	B	294/284 (104%)	291 (99%)	3 (1%)	68	49
All	All	547/517 (106%)	542 (99%)	5 (1%)	68	52

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1840	TYR
1	A	2066	LYS
2	B	291	ILE
2	B	295	SER
2	B	315	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	2076	GLN
2	B	40	HIS
2	B	70	GLN
2	B	94	HIS
2	B	150	ASN

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Mol	Chain	Res	Type
2	B	174	HIS

5.2.3 RNA ⓘ

There are no RNA molecules in this entry.

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

There are no non-standard protein/DNA/RNA residues in this entry.

5.4 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.5 Ligand geometry ⓘ

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	WCB	A	2101	-	16,16,16	1.59	2 (12%)	20,21,21	0.82	0
3	WCB	B	401	-	16,16,16	2.18	3 (18%)	20,21,21	1.49	3 (15%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	WCB	A	2101	-	-	0/8/18/18	0/2/2/2
3	WCB	B	401	-	-	3/8/18/18	0/2/2/2

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	401	WCB	O-C1	-7.10	1.37	1.44
3	A	2101	WCB	O-C1	-4.75	1.39	1.44
3	B	401	WCB	O-C4	-2.94	1.37	1.44
3	A	2101	WCB	C6-C7	-2.56	1.48	1.50
3	B	401	WCB	C10-C7	-2.29	1.32	1.36

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	401	WCB	O1-C5-N	-3.28	116.28	122.12
3	B	401	WCB	C4-C3-N	2.62	115.32	109.82
3	B	401	WCB	C1-C2-N	-2.45	106.67	110.35

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	B	401	WCB	C6-C5-N-C3
3	B	401	WCB	O1-C5-N-C3
3	B	401	WCB	O1-C5-C6-C7

There are no ring outliers.

No monomer is involved in short contacts.

5.6 Other polymers [i](#)

There are no such residues in this entry.

5.7 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	255/258 (98%)	1.65	61 (23%) 2 3	15, 44, 76, 109	12 (4%)
2	B	300/308 (97%)	1.53	81 (27%) 1 1	16, 48, 87, 129	9 (3%)
All	All	555/566 (98%)	1.59	142 (25%) 1 2	15, 46, 81, 129	21 (3%)

All (142) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	2017[A]	THR	17.8
2	B	152	LEU	9.3
1	A	1979[A]	MET	8.0
1	A	2079	ILE	7.8
1	A	2071	ILE	7.5
1	A	1840	TYR	7.4
1	A	2073	ALA	7.4
2	B	108	ILE	7.1
1	A	2074	LEU	6.8
2	B	170	SER	6.5
1	A	2072	SER	6.2
1	A	2082	ILE	5.7
1	A	2085	GLY	5.7
2	B	92	ILE	5.6
1	A	2083	ILE	5.6
1	A	2069	VAL	5.3
2	B	173	ALA	5.2
2	B	174	HIS	5.2
2	B	54[A]	MET	5.1
2	B	203[A]	TYR	5.1
1	A	2084	LEU	5.0
1	A	2077	THR	4.9
1	A	1833	GLY	4.9
2	B	279	TYR	4.8

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Mol	Chain	Res	Type	RSRZ
1	A	2086	GLN	4.8
2	B	1	MET	4.8
2	B	101	MET	4.7
1	A	2076	GLN	4.7
1	A	2075	THR	4.6
1	A	2081	ASP	4.6
2	B	172	PRO	4.5
1	A	1866	PHE	4.5
2	B	96	PHE	4.4
2	B	106	PRO	4.3
1	A	2087	ASN	4.3
2	B	316	LEU	4.3
2	B	317	LEU	4.2
1	A	2070	ASN	4.1
1	A	2063	TYR	4.1
1	A	1834	ALA	4.0
2	B	275	LEU	4.0
1	A	2080	LYS	3.9
1	A	2078	GLU	3.8
2	B	291	ILE	3.7
2	B	29	PRO	3.6
1	A	2032	ILE	3.6
1	A	2060	LEU	3.5
1	A	1837	SER	3.5
2	B	84	ARG	3.4
2	B	109	ASP	3.4
2	B	93	VAL	3.3
2	B	122[A]	GLN	3.3
2	B	171	ASP	3.3
1	A	2028	SER	3.3
1	A	1835	MET	3.2
1	A	2065	ARG	3.2
2	B	107	LYS	3.2
2	B	147	VAL	3.2
1	A	2061	THR	3.1
2	B	53	SER	3.1
1	A	2064	GLY	2.9
1	A	2027	LEU	2.9
1	A	1960[A]	GLU	2.9
1	A	1841	ALA	2.9
2	B	110	GLU	2.9
1	A	2067	TYR	2.8

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Mol	Chain	Res	Type	RSRZ
2	B	313	TYR	2.8
2	B	103	VAL	2.8
2	B	87	ALA	2.8
2	B	192	GLY	2.8
2	B	212[A]	GLY	2.8
1	A	1988	LEU	2.8
1	A	1961[A]	LEU	2.8
2	B	5	PRO	2.8
1	A	2049	ILE	2.7
2	B	38	ILE	2.7
2	B	150	ASN	2.7
2	B	49	ALA	2.7
1	A	1839	ASN	2.7
1	A	2068	ASN	2.7
2	B	146	THR	2.7
1	A	2024[A]	MET	2.7
2	B	276	PRO	2.7
1	A	1962	ARG	2.7
1	A	1836	ASN	2.6
2	B	27	ASN	2.6
2	B	282	ILE	2.6
2	B	89	PHE	2.6
2	B	111	ASP	2.6
2	B	315	GLU	2.6
2	B	278	GLN	2.6
2	B	131	ARG	2.6
2	B	52	SER	2.6
2	B	124	ASP	2.5
1	A	1977	VAL	2.5
1	A	1938	LYS	2.5
2	B	295	SER	2.5
2	B	211[A]	GLN	2.5
2	B	91	ASN	2.5
2	B	26	GLU	2.5
1	A	2030	PRO	2.5
2	B	199	LEU	2.4
2	B	294	TYR	2.4
1	A	1838	SER	2.4
2	B	64[A]	MET	2.4
2	B	288	VAL	2.4
2	B	77	LEU	2.3
2	B	213	ILE	2.3

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Mol	Chain	Res	Type	RSRZ
2	B	283	LEU	2.3
2	B	314	PRO	2.3
1	A	1953	ASN	2.3
2	B	95	ASN	2.3
2	B	28	GLN	2.2
2	B	258	LYS	2.2
2	B	142	SER	2.2
2	B	261	LEU	2.2
1	A	2059	ILE	2.2
2	B	126	ILE	2.2
2	B	254	ALA	2.2
2	B	130	VAL	2.2
1	A	2037	TYR	2.2
2	B	68	TYR	2.2
2	B	220	TYR	2.2
2	B	143	SER	2.2
2	B	116	ASN	2.2
2	B	145	THR	2.1
2	B	85	ASP	2.1
1	A	1931[A]	LYS	2.1
2	B	277	GLU	2.1
2	B	11	ILE	2.1
2	B	237	TYR	2.1
1	A	2043	PHE	2.1
1	A	1862	VAL	2.1
1	A	2031	THR	2.1
2	B	132	LYS	2.1
2	B	20	TYR	2.1
1	A	1927	GLU	2.1
1	A	1926	LYS	2.0
2	B	180	VAL	2.0
2	B	94	HIS	2.0
1	A	1844	PHE	2.0
1	A	1846	ASN	2.0

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

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](#)

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($\text{\AA}^2$)	Q<0.9
3	WCB	B	401	15/15	0.71	0.23	20,20,20,20	15
3	WCB	A	2101	15/15	0.89	0.16	20,20,20,20	15

6.5 Other polymers [i](#)

There are no such residues in this entry.