



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 27, 2026 – 10:46 PM UTC

PDB ID : 5R0S / pdb_00005r0s
Title : PanDDA analysis group deposition – Auto-refined data of Aar2/RNaseH for ground state model 06, DMSO-free
Authors : Wollenhaupt, J.; Metz, A.; Barthel, T.; Lima, G.M.A.; Heine, A.; Mueller, U.; Klebe, G.; Weiss, M.S.
Deposited on : 2020-02-12
Resolution : 1.81 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

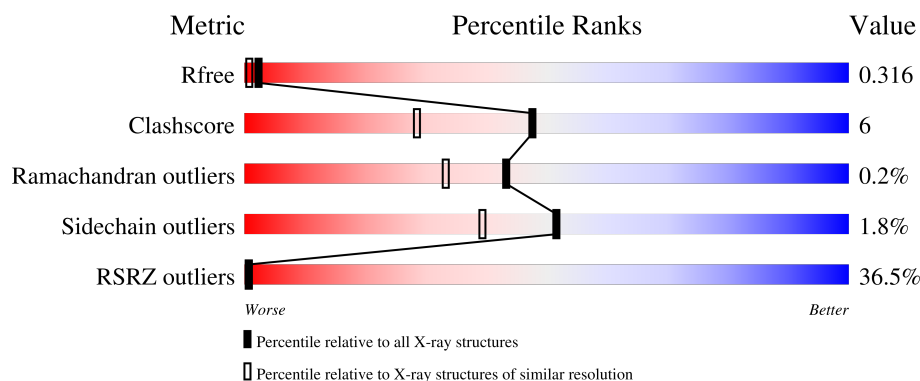
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.81 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	1112 (1.82-1.82)
Clashscore	190562	1148 (1.82-1.82)
Ramachandran outliers	187476	1140 (1.82-1.82)
Sidechain outliers	187428	1140 (1.82-1.82)
RSRZ outliers	180081	1112 (1.82-1.82)

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	36% 79% 12% 8%
2	B	308	34% 84% 12% 8%

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 4670 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 Pre-mRNA-splicing factor 8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	237	1994	1278	334	371	11	0	12	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	N	O	S			
2	B	300	2580	1654	421	485	20	0	9	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	170	SER	LEU	conflict	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	?	-	ASP	deletion	UNP P32357

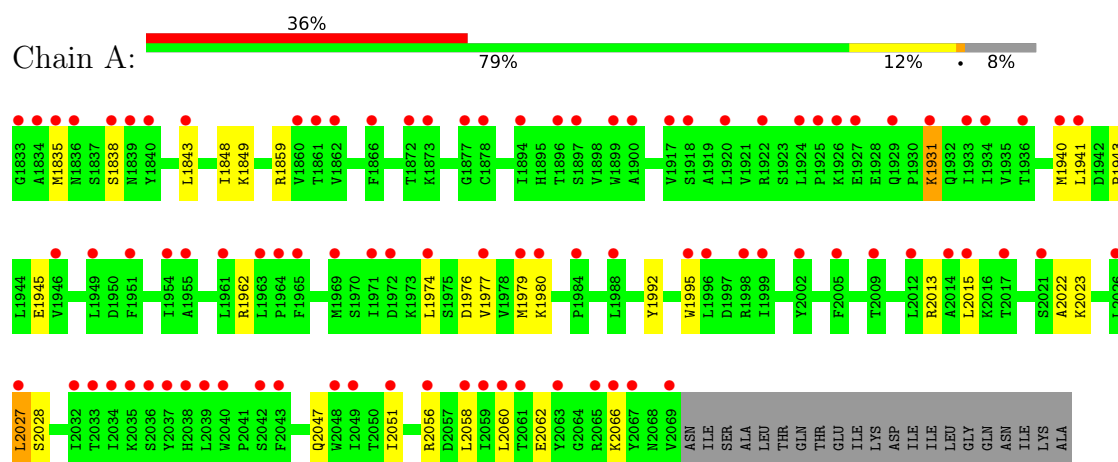
- Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	62	Total O 62 62	0	0
3	B	34	Total O 34 34	0	0

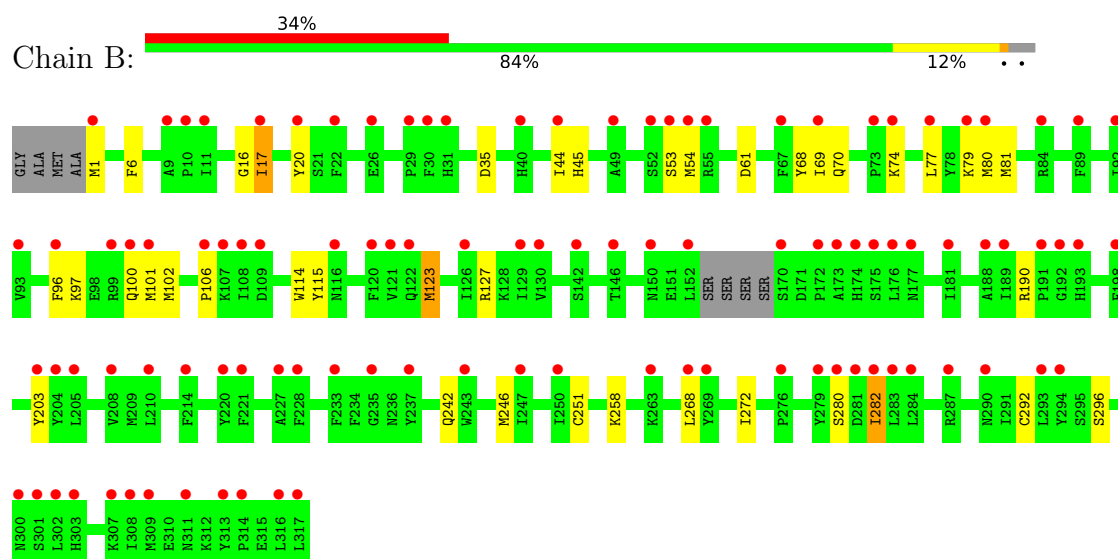
3 Residue-property plots

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	88.86Å 82.17Å 92.84Å 90.00° 108.15° 90.00°	Depositor
Resolution (Å)	23.48 – 1.81 23.48 – 1.81	Depositor EDS
% Data completeness (in resolution range)	99.6 (23.48-1.81) 99.9 (23.48-1.81)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.98 (at 1.81Å)	Xtriage
Refinement program	REFMAC 5.8.0238	Depositor
R, R_{free}	0.267 , 0.306 0.278 , 0.316	Depositor DCC
R_{free} test set	2100 reflections (3.61%)	wwPDB-VP
Wilson B-factor (Å ²)	43.2	Xtriage
Anisotropy	0.369	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 49.4	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	0.94	EDS
Total number of atoms	4670	wwPDB-VP
Average B, all atoms (Å ²)	77.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.20% 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](#)

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	0.72	0/2041	0.88	0/2765
2	B	0.64	0/2651	0.79	0/3581
All	All	0.67	0/4692	0.83	0/6346

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	1994	0	2020	19	0
2	B	2580	0	2450	32	0
3	A	62	0	0	2	0
3	B	34	0	0	3	0
All	All	4670	0	4470	51	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 6.

All (51) 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:2062:GLU:O	1:A:2066:LYS:HG2	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1:MET:N	3:B:401:HOH:O	2.21	0.72
1:A:1980:LYS:NZ	3:A:2101:HOH:O	2.27	0.68
2:B:70:GLN:HB3	2:B:81:MET:HE2	1.75	0.67
1:A:1962:ARG:O	1:A:2013:ARG:NH1	2.28	0.65
1:A:1848:ILE:H	1:A:1931[A]:LYS:HZ2	1.50	0.59
1:A:2062:GLU:HB3	1:A:2066:LYS:HE3	1.88	0.55
2:B:251:CYS:O	2:B:296:SER:HB2	2.06	0.54
2:B:53:SER:HA	3:B:426:HOH:O	2.07	0.54
2:B:190:ARG:HG3	2:B:203[B]:TYR:CZ	2.43	0.54
2:B:1:MET:HB3	2:B:35:ASP:HA	1.91	0.53
2:B:16:GLY:HA3	2:B:45:HIS:CE1	2.43	0.53
1:A:2015:LEU:HD23	1:A:2022:ALA:HB3	1.92	0.52
2:B:68:TYR:CE2	2:B:81:MET:HE3	2.46	0.50
2:B:77:LEU:HD21	2:B:79:LYS:HE3	1.93	0.50
2:B:258:LYS:HD2	2:B:258:LYS:H	1.77	0.50
2:B:6:PHE:HZ	2:B:44[A]:ILE:HD11	1.77	0.50
2:B:61:ASP:OD1	2:B:61:ASP:C	2.55	0.48
1:A:2058:LEU:C	1:A:2058:LEU:HD23	2.39	0.48
2:B:70:GLN:HB3	2:B:81:MET:CE	2.43	0.47
2:B:96:PHE:HB2	2:B:102:MET:HE3	1.96	0.47
2:B:190:ARG:HD3	2:B:203[A]:TYR:CZ	2.50	0.47
2:B:17:ILE:HD12	2:B:44[B]:ILE:HG13	1.97	0.46
2:B:6:PHE:CZ	2:B:44[A]:ILE:HD11	2.51	0.46
2:B:70:GLN:CB	2:B:81:MET:HE2	2.44	0.45
1:A:1843:LEU:HA	1:A:1849:LYS:HD2	1.99	0.45
2:B:44[A]:ILE:O	2:B:44[A]:ILE:HG23	2.16	0.45
1:A:1859:ARG:NH1	1:A:1979[A]:MET:SD	2.82	0.45
2:B:251:CYS:SG	2:B:292:CYS:HB3	2.57	0.45
1:A:1992:TYR:O	1:A:1995:TRP:CG	2.70	0.44
1:A:1859:ARG:HH12	1:A:1979[A]:MET:CE	2.30	0.44
1:A:1940:MET:C	1:A:1943:PRO:HD2	2.43	0.44
1:A:2023:LYS:O	1:A:2027:LEU:HG	2.18	0.44
2:B:190:ARG:HD3	2:B:203[A]:TYR:CE2	2.53	0.43
2:B:97:LYS:O	2:B:100:GLN:N	2.50	0.43
1:A:2056[B]:ARG:O	1:A:2060:LEU:HG	2.19	0.43
2:B:268:LEU:O	2:B:272:ILE:HG12	2.19	0.43
1:A:2047:GLN:O	1:A:2051:ILE:HG12	2.19	0.42
2:B:61:ASP:HB2	2:B:123:MET:HG2	2.00	0.42
2:B:114:TRP:O	2:B:115:TYR:C	2.63	0.42
2:B:74:LYS:NZ	3:B:402:HOH:O	2.51	0.42
1:A:1976:ASP:HB3	3:A:2101:HOH:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:69:ILE:HD13	2:B:80:MET:HA	2.02	0.41
2:B:282:ILE:H	2:B:282:ILE:HG12	1.61	0.41
1:A:1941:LEU:O	1:A:1945:GLU:HB2	2.20	0.41
2:B:123:MET:O	2:B:127:ARG:HG3	2.20	0.41
1:A:1974:LEU:O	1:A:1977:VAL:HG12	2.21	0.40
2:B:20:TYR:CD2	2:B:106:PRO:HD2	2.56	0.40
1:A:2027:LEU:O	1:A:2028:SER:C	2.63	0.40
2:B:242:GLN:O	2:B:246:MET:HG3	2.20	0.40
2:B:70:GLN:OE1	2:B:81:MET:HE1	2.22	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	247/258 (96%)	241 (98%)	6 (2%)	0	100	100
2	B	306/308 (99%)	296 (97%)	8 (3%)	2 (1%)	18	8
All	All	553/566 (98%)	537 (97%)	14 (2%)	2 (0%)	43	19

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	54[A]	MET
2	B	54[B]	MET

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	225/233 (97%)	220 (98%)	5 (2%)	45	30
2	B	287/284 (101%)	282 (98%)	5 (2%)	53	41
All	All	512/517 (99%)	502 (98%)	10 (2%)	51	35

All (10) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1835	MET
1	A	1838	SER
1	A	1931[A]	LYS
1	A	1931[B]	LYS
1	A	2027	LEU
2	B	17	ILE
2	B	101	MET
2	B	123	MET
2	B	280	SER
2	B	282	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	1863	HIS
1	A	2038	HIS
1	A	2054	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

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	237/258 (91%)	1.91	92 (38%) 1 0	25, 67, 112, 126	12 (5%)
2	B	300/308 (97%)	1.78	104 (34%) 1 1	22, 77, 126, 165	9 (3%)
All	All	537/566 (94%)	1.84	196 (36%) 1 1	22, 72, 119, 165	21 (3%)

All (196) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	1979[A]	MET	10.0
2	B	126	ILE	6.6
1	A	1940	MET	6.2
2	B	54[A]	MET	6.2
1	A	1878	CYS	5.4
2	B	203[A]	TYR	5.4
1	A	1963	LEU	5.2
1	A	2058	LEU	5.1
2	B	302	LEU	5.0
1	A	2034	ILE	5.0
1	A	2036	SER	4.9
2	B	170	SER	4.7
1	A	2037	TYR	4.6
2	B	22	PHE	4.5
1	A	1834	ALA	4.5
2	B	189	ILE	4.5
1	A	1996	LEU	4.4
1	A	1860	VAL	4.4
1	A	2063	TYR	4.4
1	A	2059	ILE	4.4
2	B	121	VAL	4.4
1	A	1840	TYR	4.4
1	A	1835	MET	4.3
1	A	1862	VAL	4.2

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Mol	Chain	Res	Type	RSRZ
2	B	317	LEU	4.2
2	B	53	SER	4.1
2	B	120	PHE	4.0
1	A	2017[A]	THR	4.0
1	A	2035	LYS	4.0
1	A	2012	LEU	4.0
1	A	1894	ILE	4.0
2	B	174	HIS	4.0
1	A	1988	LEU	3.9
2	B	283	LEU	3.9
2	B	316	LEU	3.9
1	A	1954	ILE	3.9
1	A	1961	LEU	3.8
2	B	279	TYR	3.8
1	A	2060	LEU	3.8
1	A	1969	MET	3.8
2	B	146	THR	3.8
1	A	2038	HIS	3.7
1	A	1931[A]	LYS	3.7
2	B	67	PHE	3.7
2	B	96	PHE	3.7
2	B	210	LEU	3.7
2	B	284	LEU	3.7
2	B	122[A]	GLN	3.7
2	B	204	TYR	3.6
1	A	2043	PHE	3.6
1	A	2015	LEU	3.6
1	A	1861	THR	3.5
2	B	1	MET	3.5
2	B	101	MET	3.5
1	A	1918[A]	SER	3.4
2	B	294	TYR	3.4
1	A	2014	ALA	3.4
1	A	2069	VAL	3.4
2	B	198	PHE	3.4
2	B	227	ALA	3.3
1	A	1927	GLU	3.3
1	A	1872	THR	3.3
2	B	308	ILE	3.3
1	A	1984	PRO	3.3
1	A	1924	LEU	3.2
2	B	108	ILE	3.2

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Mol	Chain	Res	Type	RSRZ
2	B	77	LEU	3.2
2	B	228	PHE	3.2
1	A	1934	ILE	3.2
1	A	1972	ASP	3.1
2	B	235	GLY	3.1
1	A	2026	LEU	3.1
2	B	268	LEU	3.1
1	A	1877	GLY	3.1
1	A	2039	LEU	3.0
1	A	1866	PHE	3.0
1	A	2005	PHE	3.0
2	B	31	HIS	3.0
1	A	2033	THR	3.0
1	A	1833	GLY	3.0
2	B	107	LYS	3.0
1	A	2048	TRP	3.0
1	A	1933	ILE	3.0
2	B	181	ILE	3.0
1	A	2027	LEU	2.9
1	A	2061	THR	2.9
1	A	1900	ALA	2.9
1	A	1955	ALA	2.9
1	A	1926	LYS	2.9
2	B	282	ILE	2.9
2	B	100	GLN	2.8
1	A	2040	TRP	2.8
1	A	1999	ILE	2.8
1	A	1977	VAL	2.8
2	B	93	VAL	2.8
2	B	30	PHE	2.8
2	B	177[A]	ASN	2.8
1	A	1873	LYS	2.7
1	A	1980	LYS	2.7
2	B	301	SER	2.7
2	B	99	ARG	2.7
2	B	49	ALA	2.7
2	B	237	TYR	2.7
1	A	1843	LEU	2.7
2	B	130	VAL	2.7
2	B	9	ALA	2.7
1	A	1896	THR	2.7
2	B	191	PRO	2.7

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Mol	Chain	Res	Type	RSRZ
2	B	26	GLU	2.7
2	B	313	TYR	2.6
2	B	44[A]	ILE	2.6
2	B	129	ILE	2.6
1	A	1946	VAL	2.6
1	A	1974	LEU	2.6
2	B	69	ILE	2.6
2	B	290	ASN	2.6
1	A	2021	SER	2.6
1	A	2042	SER	2.6
2	B	193	HIS	2.5
2	B	221	PHE	2.5
1	A	2049	ILE	2.5
1	A	2066	LYS	2.5
1	A	1964	PRO	2.5
1	A	2067	TYR	2.5
1	A	1951	PHE	2.5
2	B	192	GLY	2.5
1	A	1995	TRP	2.5
1	A	2056[A]	ARG	2.5
2	B	263	LYS	2.5
2	B	89	PHE	2.5
2	B	247	ILE	2.5
2	B	281	ASP	2.5
2	B	80	MET	2.4
1	A	2009	THR	2.4
2	B	269	TYR	2.4
2	B	293	LEU	2.4
1	A	2032	ILE	2.4
2	B	73	PRO	2.4
2	B	40	HIS	2.4
1	A	1838	SER	2.4
2	B	307	LYS	2.4
2	B	214	PHE	2.4
1	A	1971	ILE	2.4
1	A	1998	ARG	2.4
2	B	175	SER	2.4
2	B	84	ARG	2.3
2	B	233	PHE	2.3
2	B	17	ILE	2.3
2	B	92	ILE	2.3
2	B	276	PRO	2.3

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Mol	Chain	Res	Type	RSRZ
1	A	1897	SER	2.3
1	A	1922	ARG	2.3
2	B	106	PRO	2.3
2	B	309	MET	2.3
2	B	79	LYS	2.3
2	B	142	SER	2.3
1	A	2065	ARG	2.3
2	B	152	LEU	2.3
2	B	150	ASN	2.3
2	B	303	HIS	2.3
2	B	311	ASN	2.3
2	B	74	LYS	2.3
2	B	29	PRO	2.3
2	B	314	PRO	2.3
2	B	208	VAL	2.3
1	A	1920	LEU	2.3
1	A	1936	THR	2.3
2	B	205	LEU	2.3
2	B	250	ILE	2.2
1	A	1949	LEU	2.2
2	B	176	LEU	2.2
1	A	1965	PHE	2.2
2	B	20	TYR	2.2
1	A	1839	ASN	2.2
2	B	55	ARG	2.2
1	A	1917	VAL	2.1
1	A	1941	LEU	2.1
2	B	116	ASN	2.1
2	B	188	ALA	2.1
1	A	1929	GLN	2.1
2	B	220	TYR	2.1
2	B	109	ASP	2.1
2	B	243	TRP	2.1
1	A	1836	ASN	2.1
2	B	173	ALA	2.1
1	A	2051	ILE	2.1
1	A	1899	TRP	2.1
2	B	300	ASN	2.1
1	A	1925	PRO	2.1
2	B	10	PRO	2.1
2	B	11	ILE	2.0
1	A	2002	TYR	2.0

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Mol	Chain	Res	Type	RSRZ
2	B	172	PRO	2.0
2	B	52	SER	2.0
2	B	280	SER	2.0
2	B	287	ARG	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.