

Full wwPDB X-ray Structure Validation Report (i)

Oct 25, 2022 – 03:39 PM EDT

PDB ID : 7FKQ

Title : PanDDA analysis group deposition – Aar2/RNaseH in complex with fragment

P04E09 from the F2X-Universal Library

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Deposited on : 2022-08-26

Resolution : 1.68 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 (i) 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 (1)) 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)

 $Refmac \quad : \quad 5.8.0158$

CCP4 : 7.0.044 (Gargrove)

Ideal geometry (proteins) : Engh & Huber (2001) Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

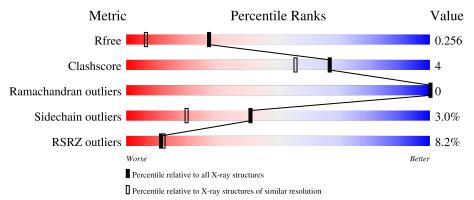
Validation Pipeline (wwPDB-VP) : 2.31.2

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: X- $RAY\ DIFFRACTION$

The reported resolution of this entry is 1.68 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	Similar resolution
Metric	$(\# ext{Entries})$	$(\# ext{Entries}, ext{ resolution range}(ext{Å}))$
R_{free}	130704	6780 (1.70-1.66)
Clashscore	141614	7310 (1.70-1.66)
Ramachandran outliers	138981	7173 (1.70-1.66)
Sidechain outliers	138945	7172 (1.70-1.66)
RSRZ outliers	127900	6661 (1.70-1.66)

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 <=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	83%	8% •	8%
2	В	308	85%	11%	



2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 9260 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
1	A	237	Total 4068	C 1287	H 2060	N 336	O 373	S 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
2	В	300	Total 5044	C 1654	H 2464	N 421	O 485	S 20	11	17	0

There are 20 discrepancies between the modelled and reference sequences:

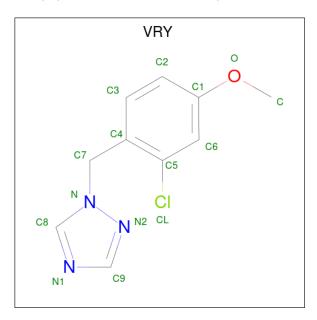
Chain	Residue	Modelled	Actual	Comment	Reference
В	-3	GLY	-	expression tag	UNP P32357
В	-2	ALA	-	expression tag	UNP P32357
В	-1	MET	ı	expression tag	UNP P32357
В	0	ALA	-	expression tag	UNP P32357
В	166	SER	LEU	conflict	UNP P32357
В	167	SER	LYS	conflict	UNP P32357
В	?	-	LEU	deletion	UNP P32357
В	?	-	GLN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



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

• Molecule 3 is 1-[(2-chloro-4-methoxyphenyl)methyl]-1H-1,2,4-triazole (three-letter code: VRY) (formula: $C_{10}H_{10}ClN_3O$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	В	1	Total 30		Cl 2			0	1
3	В	1	Total 15		Cl 1			0	0
3	В	1	Total 15		Cl 1		O 1	0	0

• Molecule 4 is water.

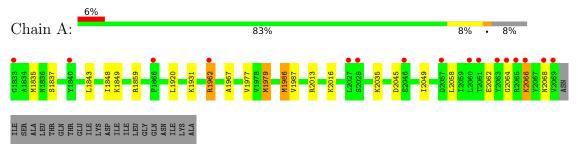
\mathbf{Mol}	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	42	Total O 42 42	0	0
4	В	46	Total O 46 46	0	0



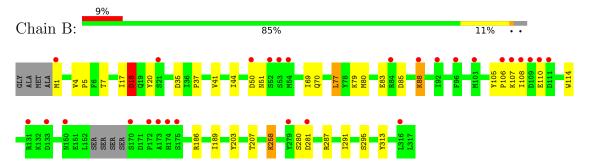
3 Residue-property plots (i)

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: Pre-mRNA-splicing factor 8



• Molecule 2: A1 cistron-splicing factor AAR2





4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants	89.87Å 81.23Å 93.25Å	Depositor
a, b, c, α , β , γ	90.00° 108.66° 90.00°	Depositor
Resolution (Å)	44.18 - 1.68	Depositor
rtesolution (A)	44.60 - 1.68	EDS
% Data completeness	99.3 (44.18-1.68)	Depositor
(in resolution range)	99.4 (44.60-1.68)	EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	0.96 (at 1.68Å)	Xtriage
Refinement program	PHENIX 1.17.1_3660	Depositor
P. P.	0.208 , 0.248	Depositor
R, R_{free}	0.225 , 0.256	DCC
R_{free} test set	2092 reflections (2.90%)	wwPDB-VP
Wilson B-factor (Å ²)	42.3	Xtriage
Anisotropy	0.322	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.39, 46.3	EDS
L-test for twinning ²	$ < L >=0.50, < L^2>=0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	9260	wwPDB-VP
Average B, all atoms (Å ²)	61.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 4.80% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical values of <|L|>, $<L^2>$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.



¹Intensities estimated from amplitudes.

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: VRY

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	Bon RMSZ	nd lengths	Bond angles		
MIOI	Moi Chain		# Z > 5	RMSZ	# Z > 5	
1	A	0.55	0/2149	0.67	0/2911	
2	В	0.66	3/2739 (0.1%)	0.77	5/3699 (0.1%)	
All	All	0.61	3/4888 (0.1%)	0.73	5/6610 (0.1%)	

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(A)	$\operatorname{Ideal}(ext{\AA})$
2	В	5	PRO	N-CA	11.10	1.66	1.47
2	В	7	THR	C-O	-5.66	1.12	1.23
2	В	4	VAL	C-N	5.37	1.44	1.34

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
2	В	5	PRO	CA-N-CD	-7.60	100.86	111.50
2	В	18	ASP	CB-CA-C	5.25	120.91	110.40
2	В	70	GLN	CB-CA-C	-5.13	100.14	110.40
2	В	88	LYS	CB-CA-C	5.05	120.51	110.40
2	В	5	PRO	N-CD-CG	5.04	110.75	103.20

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	2008	2060	1974	12	0
2	В	2580	2464	2398	23	0
3	В	60	0	0	1	0
4	A	42	0	0	0	0
4	В	46	0	0	2	0
All	All	4736	4524	4372	36	0

The all-atom clash score is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clash score for this structure is 4.

All (36) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic	Clash
Atom-1	Atom-2	${f distance}({ m \AA})$	$\text{overlap } (\text{\AA})$
2:B:18:ASP:HB3	2:B:114:TRP:CZ3	2.16	0.80
2:B:83:GLU:OE2	2:B:85:ASP:N	2.15	0.76
2:B:18:ASP:HB3	2:B:114:TRP:CE3	2.25	0.71
2:B:18:ASP:HB3	2:B:114:TRP:CH2	2.26	0.70
1:A:1962:ARG:O	1:A:2013:ARG:NH1	2.26	0.69
2:B:1:MET:N	4:B:501:HOH:O	2.25	0.68
2:B:18:ASP:HB3	2:B:114:TRP:CD2	2.40	0.57
2:B:1:MET:HB3	2:B:35:ASP:HA	1.88	0.55
2:B:17:ILE:O	2:B:17:ILE:HG23	2.06	0.55
2:B:17:ILE:HD13	2:B:44[B]:ILE:HG12	1.90	0.54
2:B:41[A]:VAL:HG12	4:B:521:HOH:O	2.08	0.54
2:B:18:ASP:HB3	2:B:114:TRP:CZ2	2.44	0.53
1:A:2064:GLY:O	1:A:2068:ASN:N	2.38	0.51
2:B:287:ARG:O	2:B:291:ILE:HD13	2.11	0.50
1:A:2058:LEU:C	1:A:2058:LEU:HD23	2.33	0.49
2:B:17:ILE:HD13	2:B:44[B]:ILE:CG1	2.43	0.49
2:B:18:ASP:HB3	2:B:114:TRP:CE2	2.48	0.49
1:A:1843:LEU:HA	1:A:1849:LYS:HD2	1.96	0.47
2:B:258:LYS:HD2	2:B:258:LYS:H	1.78	0.47
1:A:1859:ARG:HH12	1:A:1979[A]:MET:CE	2.27	0.47
2:B:37:PRO:HD3	2:B:105:TYR:CD1	2.51	0.46
2:B:77:LEU:HD21	2:B:79:LYS:HE3	1.96	0.46
1:A:1848:ILE:H	1:A:1931[A]:LYS:HZ2	1.65	0.45
1:A:2035:LYS:HD3	1:A:2035:LYS:HA	1.86	0.44
2:B:20:TYR:CZ	2:B:106:PRO:HG2	2.52	0.44
1:A:1977:VAL:HG21	1:A:1987:VAL:HG21	1.99	0.43
2:B:203[A]:TYR:CZ	2:B:207:THR:HG21	2.54	0.43
3:B:402:VRY:CL	3:B:402:VRY:C8	3.04	0.43
1:A:2062:GLU:O	1:A:2066:LYS:HB2	2.19	0.42



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Atom-1	Atom-2	Interatomic	Clash
Atom-1	Atom-2	$\operatorname{distance}\left(\operatorname{\mathring{A}} ight)$	overlap (Å)
1:A:1920:LEU:HD13	1:A:1986:MET:CE	2.49	0.42
2:B:186:ARG:NH1	2:B:189:ILE:O	2.50	0.41
1:A:1967:ALA:HB2	1:A:2016:LYS:HB2	2.02	0.41
1:A:2045:ASP:O	1:A:2049:ILE:HG12	2.21	0.41
2:B:69:ILE:HD13	2:B:80:MET:HA	2.03	0.41
2:B:280:SER:HB3	2:B:313:TYR:CE1	2.56	0.41
2:B:50:ASP:OD1	2:B:51:ASN:N	2.53	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	$258/258 \; (100\%)$	250 (97%)	8 (3%)	0	100	100
2	В	$315/308 \; (102\%)$	306 (97%)	9 (3%)	0	100	100
All	All	573/566 (101%)	556 (97%)	17 (3%)	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	237/233 (102%)	229 (97%)	8 (3%)	37 15		



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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles		
2	В	294/284 (104%)	285 (97%)	9 (3%)	40	18	
All	All	531/517 (103%)	514 (97%)	17 (3%)	41	17	

All (17) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1835	MET
1	A	1837	SER
1	A	1962	ARG
1	A	1979[A]	MET
1	A	1979[B]	MET
1	A	1979[C]	MET
1	A	1986	MET
1	A	2066	LYS
2	В	18	ASP
2	В	77	LEU
2	В	88	LYS
2	В	107	LYS
2	В	108	ILE
2	В	110	GLU
2	В	258	LYS
2	В	281	ASP
2	В	295	SER

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)

4 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	Trme	Chain	Res	Link	Bond lengths			Bond angles		
MIOI	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	VRY	В	401[A]	-	14,16,16	1.79	1 (7%)	17,21,21	1.19	2 (11%)
3	VRY	В	403	-	14,16,16	1.34	2 (14%)	17,21,21	1.72	4 (23%)
3	VRY	В	401[B]	-	14,16,16	1.68	4 (28%)	17,21,21	1.39	2 (11%)
3	VRY	В	402	-	14,16,16	1.70	1 (7%)	17,21,21	1.43	2 (11%)

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	VRY	В	401[A]	-	-	4/6/6/6	0/2/2/2
3	VRY	В	403	-	-	2/6/6/6	0/2/2/2
3	VRY	В	401[B]	-	-	4/6/6/6	0/2/2/2
3	VRY	В	402	-	-	2/6/6/6	0/2/2/2

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\text{\AA})$	$\operatorname{Ideal}(ext{\AA})$
3	В	401[A]	VRY	C8-N	6.35	1.40	1.33
3	В	402	VRY	C8-N	5.31	1.39	1.33
3	В	401[B]	VRY	N2-N	-2.86	1.31	1.35
3	В	401[B]	VRY	C3-C4	2.78	1.44	1.39
3	В	401[B]	VRY	C6-C1	2.63	1.43	1.38
3	В	403	VRY	C8-N	2.45	1.36	1.33
3	В	403	VRY	C6-C1	-2.11	1.35	1.38
3	В	401[B]	VRY	C5-CL	-2.09	1.68	1.73

All (10) bond angle outliers are listed below:



Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
3	В	403	VRY	C6-C5-CL	-3.64	112.62	118.49
3	В	401[B]	VRY	C6-C5-C4	3.52	125.55	122.42
3	В	402	VRY	N1-C8-N	-3.17	108.41	112.24
3	В	401[A]	VRY	N1-C8-N	-3.11	108.48	112.24
3	В	402	VRY	C7-C4-C5	2.57	125.58	120.53
3	В	403	VRY	C7-C4-C5	2.55	125.53	120.53
3	В	403	VRY	N1-C8-N	-2.47	109.25	112.24
3	В	401[B]	VRY	N1-C8-N	-2.28	109.49	112.24
3	В	403	VRY	C4-C5-CL	2.27	123.42	119.73
3	В	401[A]	VRY	C6-C5-C4	2.09	124.28	122.42

There are no chirality outliers.

All (12) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	В	401[A]	VRY	C5-C4-C7-N
3	В	401[A]	VRY	C4-C7-N-N2
3	В	401[B]	VRY	C4-C7-N-N2
3	В	402	VRY	C5-C4-C7-N
3	В	401[A]	VRY	C4-C7-N-C8
3	В	401[B]	VRY	C4-C7-N-C8
3	В	401[A]	VRY	C3-C4-C7-N
3	В	401[B]	VRY	C3-C4-C7-N
3	В	403	VRY	C3-C4-C7-N
3	В	401[B]	VRY	C5-C4-C7-N
3	В	403	VRY	C5-C4-C7-N
3	В	402	VRY	C3-C4-C7-N

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	В	402	VRY	1	0

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, 95^{th} 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 $>$	$\# \mathrm{RSRZ}{>}2$	$OWAB(A^2)$	Q<0.9
1	A	237/258 (91%)	0.69	16 (6%) 17 18	35, 49, 86, 128	0
2	В	300/308 (97%)	0.95	28 (9%) 8 9	33, 50, 94, 125	0
All	All	537/566 (94%)	0.84	44 (8%) 11 12	33, 50, 92, 128	0

All (44) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	В	109	ASP	14.7
2	В	108	ILE	13.0
2	В	53	SER	6.4
2	В	52	SER	6.3
1	A	2069	VAL	6.3
2	В	1	MET	5.8
2	В	279	TYR	5.8
1	A	2063	TYR	5.4
1	A	1962	ARG	5.3
2	В	101	MET	5.1
1	A	2068	ASN	4.7
2	В	173	ALA	4.2
1	A	1866	PHE	4.2
1	A	1840	TYR	4.1
2	В	172	PRO	4.0
1	A	2065	ARG	3.9
2	В	54[A]	MET	3.7
2	В	281	ASP	3.5
1	A	1833	GLY	3.5
1	A	2060	LEU	3.5
2	В	107	LYS	3.4
1	A	2061	THR	3.3
2	В	110	GLU	3.3
1	A	2064	GLY	3.1



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Mol	Chain	Res	Type	RSRZ
2	В	88	LYS	3.0
2	В	175	SER	3.0
2	В	111	ASP	2.9
2	В	174	HIS	2.9
1	A	2027	LEU	2.8
2	В	316	LEU	2.7
2	В	170	SER	2.7
2	В	133	ASP	2.6
2	В	84	ARG	2.5
2	В	50	ASP	2.4
1	A	2028	SER	2.4
1	A	2046	GLU	2.3
1	A	2057[A]	ASP	2.3
2	В	92	ILE	2.3
2	В	106	PRO	2.3
2	В	96	PHE	2.2
1	A	2066	LYS	2.2
2	В	150	ASN	2.1
2	В	131	ARG	2.1
2	В	21	SER	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 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, 95^{th} 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	$ m B ext{-}factors(\AA^2)$	Q<0.9
3	VRY	В	401[A]	15/15	0.71	0.24	20,20,20,20	15
3	VRY	В	401[B]	15/15	0.71	0.24	20,20,20,20	15
3	VRY	В	402	15/15	0.77	0.24	20,20,20,20	15



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Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
3	VRY	В	403	15/15	0.79	0.22	20,20,20,20	15

6.5 Other polymers (i)

There are no such residues in this entry.

