

Full wwPDB X-ray Structure Validation Report (i)

Sep 16, 2024 - 10:22 am BST

PDB ID	:	8QJD
Title	:	T6SS-linked Rhs repeat protein - Salmonella bongori Rhs-core domain
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Deposited on	:	2023-09-13
Resolution	:	2.20 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
Xtriage (Phenix)	:	1.13
EDS	:	3.0
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.002 (Gargrove)
Density-Fitness	:	1.0.11
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.38.2

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 2.20 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.



Motria	Whole archive	Similar resolution
wietric	$(\# { m Entries})$	$(\# { m Entries}, { m resolution} { m range}({ m \AA}))$
R_{free}	164625	5791 (2.20-2.20)
Clashscore	180529	6634 (2.20-2.20)
Ramachandran outliers	177936	6560 (2.20-2.20)
Sidechain outliers	177891	6561 (2.20-2.20)
RSRZ outliers	164620	5791 (2.20-2.20)

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	А	1065	2% 88%	9%	•
1	В	1065	3% 90%	7%	·



2 Entry composition (i)

There are 3 unique types of molecules in this entry. The entry contains 18070 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 Salmonella bongori Rhs core domain (residues 360-1420).

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
1	А	1037	Total 8432	C 5229	N 1521	O 1658	S 24	0	0	0
1	В	1036	Total 8427	C 5226	N 1522	O 1655	S 24	0	0	0

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
А	356	GLY	-	expression tag	UNP S5MXP0
А	357	SER	-	expression tag	UNP S5MXP0
А	358	GLY	-	expression tag	UNP S5MXP0
А	359	SER	-	expression tag	UNP S5MXP0
В	356	GLY	-	expression tag	UNP S5MXP0
В	357	SER	-	expression tag	UNP S5MXP0
В	358	GLY	-	expression tag	UNP S5MXP0
В	359	SER	-	expression tag	UNP S5MXP0

• Molecule 2 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	А	1	Total Zn 1 1	0	0
2	В	1	Total Zn 1 1	0	0

• Molecule 3 is water.

Mol	Chain	Residues Atoms		ZeroOcc	AltConf
3	А	613	Total O 613 613	0	0
3	В	596	Total O 596 596	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: Salmonella bongori Rhs core domain (residues 360-1420)

• Molecule 1: Salmonella bongori Rhs core domain (residues 360-1420)









4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	99.07Å 118.26Å 131.76Å	Deperitor
a, b, c, α , β , γ	90.00° 105.52° 90.00°	Depositor
Posclution(Å)	49.17 - 2.20	Depositor
Resolution (A)	49.17 - 2.20	EDS
% Data completeness	99.3 (49.17-2.20)	Depositor
(in resolution range)	99.3 (49.17-2.20)	EDS
R_{merge}	0.08	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.29 (at 2.20 \text{\AA})$	Xtriage
Refinement program	PHENIX 1.20.1_4487+SVN, PHENIX 1.18.2_3874	Depositor
DD	0.182 , 0.211	Depositor
$\mathbf{n}, \mathbf{n}_{free}$	0.182 , 0.210	DCC
R_{free} test set	7363 reflections $(5.00%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	37.9	Xtriage
Anisotropy	0.733	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.35 , 38.1	EDS
L-test for twinning ²	$< L >=0.48, < L^2>=0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	18070	wwPDB-VP
Average B, all atoms $(Å^2)$	47.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 7.23% of the height of the origin peak. No significant pseudotranslation is detected.

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.



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: ZN

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	А	0.28	0/8632	0.59	0/11717	
1	В	0.28	0/8627	0.60	0/11709	
All	All	0.28	0/17259	0.60	0/23426	

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	А	8432	0	7934	66	1
1	В	8427	0	7932	49	1
2	А	1	0	0	0	0
2	В	1	0	0	0	0
3	А	613	0	0	26	1
3	В	596	0	0	11	1
All	All	18070	0	15866	115	2

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 (115) 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	distance (\AA)	overlap (Å)
1:A:819:GLN:O	3:A:1602:HOH:O	1.81	0.98
1:A:874:GLU:O	3:A:1601:HOH:O	1.80	0.95
1:A:994:ASP:OD2	3:A:1603:HOH:O	1.83	0.94
1:B:1233:SER:OG	3:B:1601:HOH:O	1.90	0.88
1:A:863:LYS:NZ	3:A:1604:HOH:O	2.05	0.88
1:A:963:ASN:ND2	3:A:1607:HOH:O	2.09	0.86
1:B:1127:MET:SD	3:B:2113:HOH:O	2.33	0.84
1:A:922:ARG:NE	3:A:1614:HOH:O	2.16	0.75
1:A:1083:ARG:NH2	1:A:1329:GLU:OE2	2.21	0.74
1:A:949:PHE:O	3:A:1606:HOH:O	2.07	0.72
1:A:792:ARG:NH2	1:A:806:GLU:OE2	2.17	0.71
1:B:851:ARG:NH2	1:B:1136:ARG:O	2.21	0.71
1:B:1253:PHE:O	1:B:1379:ARG:NH1	2.19	0.71
1:A:1038:GLN:OE1	3:A:1608:HOH:O	2.09	0.69
1:A:1317:HIS:ND1	3:A:1624:HOH:O	2.26	0.68
1:A:856:ARG:HD3	3:A:1658:HOH:O	1.94	0.67
1:B:1246:ARG:HG3	1:B:1372:GLU:HG3	1.77	0.67
1:A:377:SER:OG	3:A:1609:HOH:O	2.12	0.67
1:B:1317:HIS:ND1	3:B:1615:HOH:O	2.26	0.66
1:A:1253:PHE:O	1:A:1379:ARG:NH1	2.21	0.66
1:A:1197:ASP:OD1	3:A:1610:HOH:O	2.12	0.66
1:A:1340:ARG:NE	3:A:1628:HOH:O	2.29	0.66
1:A:678:LEU:O	3:A:1611:HOH:O	2.13	0.65
1:A:1079:ASN:O	3:A:1613:HOH:O	2.14	0.65
1:B:554:GLN:HG2	3:B:1768:HOH:O	1.97	0.64
1:A:796:ASN:HB2	1:A:802:GLY:H	1.63	0.64
1:B:549:GLU:OE2	3:B:1603:HOH:O	2.16	0.63
1:B:1077:ARG:N	3:B:1621:HOH:O	2.31	0.63
1:A:1246:ARG:HG3	1:A:1372:GLU:HG3	1.79	0.63
1:A:648:GLU:OE2	1:A:651:ARG:NH2	2.32	0.62
1:A:867:LEU:HD21	1:A:870:ILE:HD11	1.82	0.62
1:B:666:ASP:OD2	1:B:675:ARG:NH1	2.33	0.62
1:B:1036:ARG:NH2	1:B:1056:PRO:O	2.33	0.62
1:B:792:ARG:HH22	1:B:808:ARG:HE	1.48	0.61
1:B:1083:ARG:NH2	1:B:1329:GLU:OE2	2.33	0.61
1:B:1009:CYS:SG	3:B:2156:HOH:O	2.56	0.60
1:B:768:THR:O	3:B:1605:HOH:O	2.17	0.59
1:B:732:GLU:OE2	3:B:1606:HOH:O	2.17	0.59
1:A:563:THR:O	3:A:1615:HOH:O	2.17	0.58
1:B:1027:THR:O	3:B:1604:HOH:O	2.16	0.57
1:B:664:ALA:HB3	1:B:677:SER:HB2	1.86	0.57

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	A h o	Interatomic	Clash
Atom-1	Atom-2	distance (\AA)	overlap (Å)
1:B:937:GLN:HB2	1:B:944:LEU:HD11	1.86	0.57
1:A:561:GLU:OE2	3:A:1616:HOH:O	2.18	0.56
1:A:869:GLU:OE2	1:A:879:ARG:NH1	2.39	0.56
1:B:1413:SER:OG	3:B:1607:HOH:O	2.18	0.56
1:B:1260:ARG:HH21	1:B:1284:VAL:HG21	1.72	0.55
1:B:909:CYS:SG	1:B:922:ARG:NH2	2.81	0.54
1:A:528:LEU:HD21	1:A:774:ILE:HD13	1.90	0.54
1:A:756:GLN:OE1	3:A:1617:HOH:O	2.19	0.53
1:A:1052:GLN:HG2	1:A:1063:GLN:HG2	1.90	0.53
1:A:792:ARG:HH22	1:A:808:ARG:CD	2.22	0.53
1:B:391:ARG:HB3	1:B:394:ALA:HB2	1.89	0.53
1:A:1272:HIS:HB3	1:A:1280:GLU:HB2	1.91	0.52
1:A:361:PRO:HD2	3:A:1992:HOH:O	2.08	0.52
1:B:897:ARG:HG3	1:B:915:PRO:HG2	1.92	0.51
1:A:897:ARG:HG3	1:A:915:PRO:HG2	1.92	0.51
1:B:653:ARG:NH1	1:B:666:ASP:HA	2.25	0.51
1:A:391:ARG:HB3	1:A:394:ALA:HB2	1.92	0.51
1:B:554:GLN:HG3	1:B:555:PHE:CE2	2.45	0.51
1:A:363:ASP:HB2	1:A:370:LEU:HD11	1.92	0.51
1:A:851:ARG:NH2	1:A:1136:ARG:O	2.35	0.51
1:A:609:GLU:OE2	3:A:1619:HOH:O	2.19	0.51
1:B:476:THR:HG21	1:B:482:LEU:HD12	1.93	0.50
1:A:801:GLN:O	1:A:821:SER:HA	2.10	0.50
1:A:1040:ILE:O	3:A:1618:HOH:O	2.19	0.50
1:A:1278:LEU:HD22	3:A:2207:HOH:O	2.11	0.50
1:A:909:CYS:SG	1:A:922:ARG:NH2	2.85	0.50
1:B:649:ASN:O	1:B:650:THR:OG1	2.26	0.49
1:B:1052:GLN:HG2	1:B:1063:GLN:HG2	1.94	0.48
1:B:792:ARG:NH2	1:B:808:ARG:HE	2.10	0.48
1:A:1408:ALA:HB1	1:A:1414:TRP:HB2	1.97	0.47
1:B:801:GLN:HG3	1:B:821:SER:HB3	1.97	0.47
1:A:860:ARG:HD3	1:A:869:GLU:OE1	2.14	0.46
1:B:1272:HIS:HB3	1:B:1280:GLU:HB2	1.98	0.46
1:A:922:ARG:HG2	1:A:933:GLU:HG2	1.97	0.46
1:B:685:TYR:HB2	1:B:698:SER:HB2	1.98	0.46
1:B:653:ARG:HH12	1:B:666:ASP:HA	1.81	0.45
1:A:666:ASP:HB2	1:A:675:ARG:HB3	1.99	0.45
1:B:1330:LEU:HB2	1:B:1339:TRP:HB3	1.97	0.45
1:A:1078:ASN:HB2	3:A:1676:HOH:O	2.16	0.45
1:A:1224:ARG:NH1	1:A:1226:ARG:HH21	2.14	0.45
1:B:862:ASP:OD2	1:B:866:ARG:HD2	2.17	0.44

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Atom 1	Atom 2	Interatomic	Clash
Atom-1	Atom-2	$distance ({ m \AA})$	overlap (Å)
1:A:1083:ARG:HH22	1:A:1329:GLU:CD	2.19	0.44
1:A:1239:GLU:OE1	1:A:1245:ARG:NH1	2.50	0.44
1:B:1281:GLU:HG3	1:B:1296:ILE:HB	2.00	0.44
1:A:675:ARG:HD2	1:A:685:TYR:CE1	2.53	0.43
1:B:860:ARG:HB3	1:B:869:GLU:HB3	1.99	0.43
1:A:1065:ALA:HB3	1:A:1081:LEU:HB3	2.01	0.43
1:A:1083:ARG:HD3	1:A:1085:TRP:CZ2	2.53	0.43
1:B:412:LEU:HB2	1:B:481:TYR:HB2	2.00	0.43
1:B:1260:ARG:NH2	1:B:1270:ASP:OD1	2.51	0.43
1:A:604:LEU:HB2	1:A:613:THR:HB	1.99	0.43
1:A:1330:LEU:HB2	1:A:1339:TRP:HB3	2.00	0.43
1:A:553:ILE:HG23	1:A:554:GLN:HG3	2.01	0.43
1:A:527:ASP:OD1	1:A:535:ARG:NE	2.49	0.43
1:B:1261:CYS:SG	1:B:1264:ARG:HB2	2.59	0.42
1:A:970:GLU:OE2	1:A:986:ARG:NH1	2.28	0.42
1:A:686:TYR:CE2	1:A:697:LEU:HD13	2.55	0.42
1:A:1104:MET:HA	1:A:1118:THR:O	2.20	0.42
1:A:1281:GLU:HG3	1:A:1296:ILE:HB	2.00	0.42
1:A:988:GLU:O	1:A:1001:ARG:HA	2.20	0.41
1:A:922:ARG:CZ	3:A:1614:HOH:O	2.64	0.41
1:A:1314:GLY:N	3:A:1650:HOH:O	2.39	0.41
1:B:1083:ARG:HH22	1:B:1329:GLU:CD	2.24	0.41
1:B:795:LYS:HE3	1:B:795:LYS:HB3	1.86	0.41
1:B:1209:ARG:HD3	1:B:1233:SER:OG	2.21	0.41
1:B:1216:ASP:CG	1:B:1219:GLY:HA3	2.41	0.41
1:B:1172:TRP:HB3	1:B:1192:VAL:HG13	2.01	0.41
1:B:1011:THR:HB	1:B:1020:GLN:HB3	2.03	0.41
1:A:572:ARG:NH1	3:A:1675:HOH:O	2.47	0.40
1:B:1264:ARG:HB2	1:B:1266:ARG:HG3	2.04	0.40
1:B:1332:THR:OG1	1:B:1334:ASP:OD1	2.38	0.40
1:A:610:LYS:HD2	1:A:626:TYR:CE2	2.56	0.40
1:A:1027:THR:HA	1:A:1028:PRO:HD3	1.99	0.40
1:A:1217:LYS:HG3	1:A:1220:TYR:HB2	2.04	0.40

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All (2) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)	
3:A:2059:HOH:O	3:B:1914:HOH:O[2_647]	1.77	0.43	
1:A:585:THR:O	$1:B:1122:SER:OG[2_646]$	2.16	0.04	



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	Perce	ntiles
1	А	1031/1065~(97%)	1008 (98%)	22 (2%)	1 (0%)	48	57
1	В	1030/1065~(97%)	1007 (98%)	22~(2%)	1 (0%)	48	57
All	All	2061/2130~(97%)	2015 (98%)	44 (2%)	2(0%)	48	57

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	А	1379	ARG
1	В	1379	ARG

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	d Rotameric Ou		Perce	entiles
1	А	898/922~(97%)	896 (100%)	2~(0%)	92	96
1	В	897/922~(97%)	896 (100%)	1 (0%)	92	97
All	All	1795/1844~(97%)	1792 (100%)	3 (0%)	92	96

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	1257	ILE
1	А	1378	ASN
1	В	1378	ASN



Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	\mathbf{Res}	Type
1	А	1274	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 oligosaccharides in this entry.

5.6 Ligand geometry (i)

Of 2 ligands modelled in this entry, 2 are monoatomic - leaving 0 for Mogul analysis.

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 (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 $>$	#RSRZ>2	$OWAB(Å^2)$	Q<0.9
1	А	1037/1065~(97%)	0.14	23 (2%) 62 58	33, 46, 70, 116	0
1	В	1036/1065~(97%)	0.07	29 (2%) 55 52	31, 45, 71, 109	0
All	All	2073/2130~(97%)	0.11	52 (2%) 58 55	31, 45, 71, 116	0

All (52) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	796	ASN	6.0
1	В	1220	TYR	5.3
1	В	1191	PHE	5.3
1	А	1176	THR	5.0
1	В	1079	ASN	4.9
1	В	800	PRO	4.6
1	В	801	GLN	4.5
1	А	1191	PHE	4.4
1	В	795	LYS	4.1
1	В	1221	ARG	3.6
1	В	1077	ARG	3.6
1	В	798	ALA	3.5
1	В	797	HIS	3.5
1	В	1175	THR	3.4
1	В	774	ILE	3.2
1	В	1078	ASN	3.0
1	В	1066	GLY	2.9
1	А	586	LEU	2.8
1	В	799	GLY	2.8
1	В	1125	ILE	2.7
1	В	1228	ARG	2.7
1	А	1125	ILE	2.6
1	А	430	TYR	2.5
1	В	1174	HIS	2.5

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Mol	Chain	\mathbf{Res}	Type	RSRZ
1	А	1190	GLN	2.5
1	В	1080	THR	2.5
1	А	1174	HIS	2.5
1	А	1217	LYS	2.4
1	А	416	GLY	2.4
1	А	610	LYS	2.3
1	А	609	GLU	2.3
1	А	1079	ASN	2.3
1	В	817	MET	2.2
1	А	1175	THR	2.2
1	А	857	LEU	2.2
1	В	937	GLN	2.2
1	В	1199	GLN	2.2
1	В	1354	LYS	2.2
1	В	364	ILE	2.1
1	В	1121	GLY	2.1
1	В	1219	GLY	2.1
1	А	486	ILE	2.1
1	А	1193	ARG	2.1
1	А	801	GLN	2.1
1	А	799	GLY	2.1
1	А	1121	GLY	2.1
1	В	1245	ARG	2.1
1	А	800	PRO	2.1
1	А	607	ASP	2.1
1	А	1265	ASP	2.0
1	В	1265	ASP	2.0
1	А	1123	SER	2.0

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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,



Mol	Type	Chain	Res	Atoms	RSCC	RSR	$B-factors(A^2)$	Q<0.9
2	ZN	А	1501	1/1	0.98	0.06	102,102,102,102	0
2	ZN	В	1501	1/1	0.98	0.04	86,86,86,86	0

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.

6.5 Other polymers (i)

There are no such residues in this entry.

