Full wwPDB X-ray Structure Validation Report ⓘ

May 29, 2020 – 07:59 am BST

PDB ID	:	5OX7
Title	:	Structure of P110 from Mycoplasma genitalium at 2.4A with potassium ion
Authors	:	Aparicio, D.; Fita, I.
Deposited on	:	2017-09-06
Resolution	:	2.40 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 following versions of software and data (see references ⓘ) were used in the production of this report:

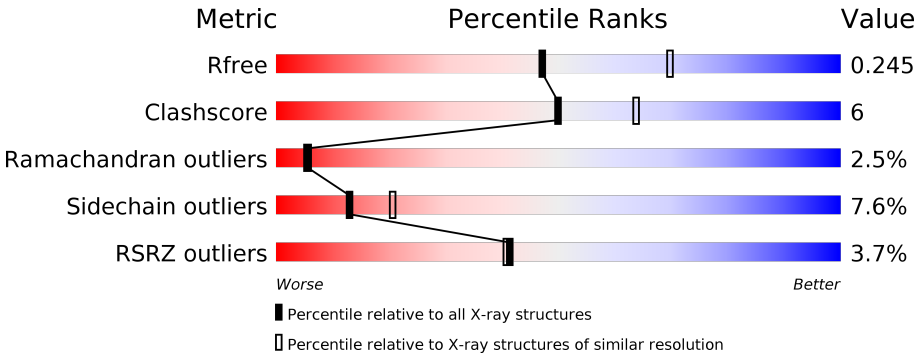
MolProbity	:	4.02b-467
Xtriage (Phenix)	:	1.13
EDS	:	2.11
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.11

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 2.40 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	3907 (2.40-2.40)
Clashscore	141614	4398 (2.40-2.40)
Ramachandran outliers	138981	4318 (2.40-2.40)
Sidechain outliers	138945	4319 (2.40-2.40)
RSRZ outliers	127900	3811 (2.40-2.40)

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 on 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	916	4% 76% 17%

2 Entry composition (i)

There are 3 unique types of molecules in this entry. The entry contains 6940 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 Mgp-operon protein 3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	887	Total	C	N	O	S	0	1	0
			6826	4277	1140	1403	6			

- Molecule 2 is POTASSIUM ION (three-letter code: K) (formula: K).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	K	0	0
			1	1		

- Molecule 3 is water.

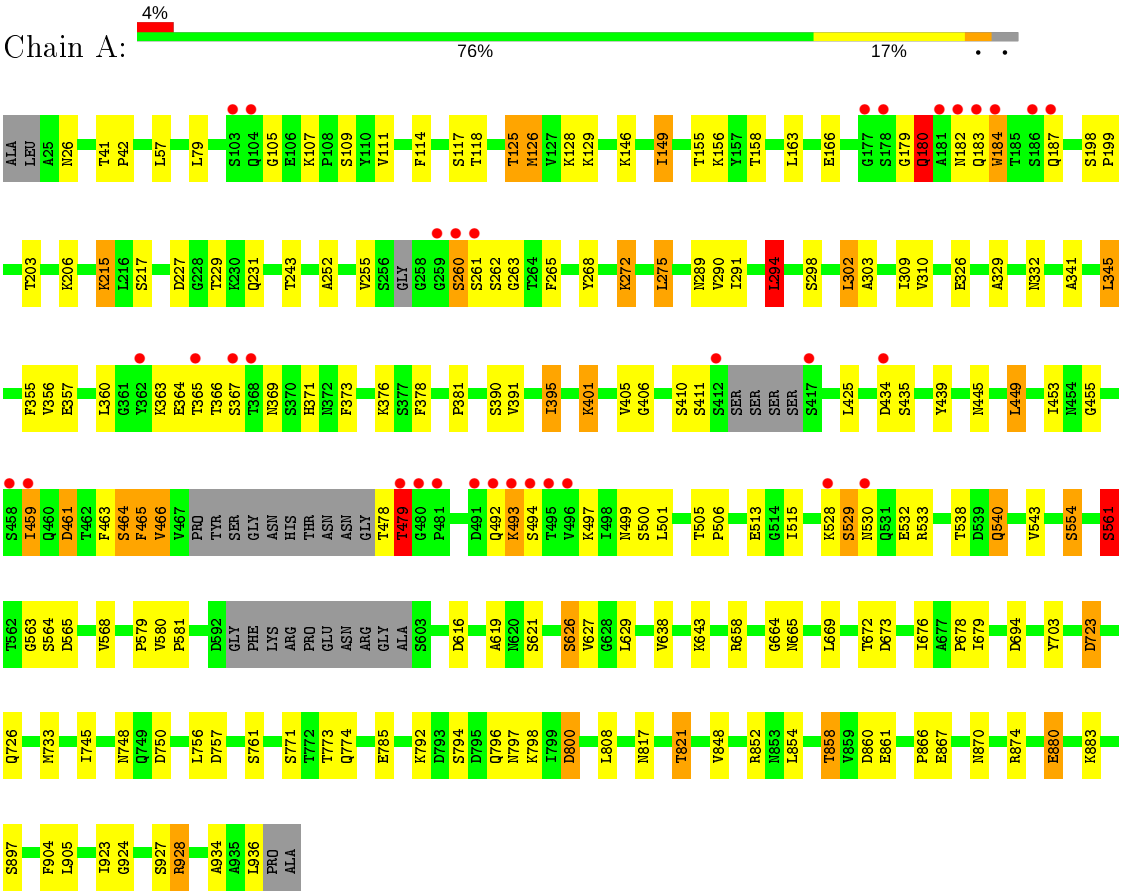
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	113	Total	O	0	0
			113	113		

3 Residue-property plots (i)

These plots are drawn for all protein, RNA and DNA 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: Mgp-operon protein 3

Chain A:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	I 2 2 2	Depositor
Cell constants a, b, c, α, β, γ	109.60Å 151.29Å 176.25Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	62.54 – 2.40 62.54 – 2.40	Depositor EDS
% Data completeness (in resolution range)	99.4 (62.54-2.40) 99.5 (62.54-2.40)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.86 (at 2.40Å)	Xtriage
Refinement program	REFMAC 5.8.0158	Depositor
R, R_{free}	0.191 , 0.240 0.196 , 0.245	Depositor DCC
R_{free} test set	2770 reflections (4.87%)	wwPDB-VP
Wilson B-factor (Å^2)	59.5	Xtriage
Anisotropy	0.086	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.32 , 43.4	EDS
L-test for twinning[2]	$< \|L\| > = 0.49$, $< L^2 > = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.96	EDS
Total number of atoms	6940	wwPDB-VP
Average B, all atoms (Å^2)	76.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.41% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical 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.

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: K

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	1.21	17/6963 (0.2%)	1.17	25/9469 (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 (17) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	924	GLY	N-CA	8.69	1.59	1.46
1	A	626	SER	CB-OG	8.46	1.53	1.42
1	A	184	TRP	CB-CG	7.96	1.64	1.50
1	A	927	SER	C-O	-7.31	1.09	1.23
1	A	723	ASP	CB-CG	-6.48	1.38	1.51
1	A	785	GLU	CG-CD	6.22	1.61	1.51
1	A	363	LYS	N-CA	5.96	1.58	1.46
1	A	326	GLU	CD-OE1	5.92	1.32	1.25
1	A	466	VAL	CA-CB	5.78	1.66	1.54
1	A	870	ASN	CB-CG	5.52	1.63	1.51
1	A	561	SER	CB-OG	5.45	1.49	1.42
1	A	785	GLU	CB-CG	5.40	1.62	1.52
1	A	785	GLU	CD-OE1	5.35	1.31	1.25
1	A	923	ILE	C-O	5.29	1.33	1.23
1	A	109	SER	CB-OG	5.21	1.49	1.42
1	A	703	TYR	CE1-CZ	5.07	1.45	1.38
1	A	464	SER	CA-C	5.06	1.66	1.52

All (25) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	126	MET	CG-SD-CE	-8.06	87.30	100.20
1	A	936	LEU	CA-CB-CG	7.67	132.93	115.30
1	A	694	ASP	CB-CG-OD1	7.18	124.77	118.30
1	A	800	ASP	CB-CG-OD2	-6.60	112.36	118.30
1	A	936	LEU	CB-CG-CD2	6.51	122.07	111.00
1	A	464	SER	N-CA-C	6.45	128.40	111.00
1	A	723	ASP	CB-CA-C	-6.39	97.61	110.40
1	A	294	LEU	CA-CB-CG	5.73	128.48	115.30
1	A	658	ARG	NE-CZ-NH2	-5.62	117.49	120.30
1	A	272	LYS	CD-CE-NZ	5.60	124.58	111.70
1	A	461	ASP	CB-CG-OD1	5.49	123.24	118.30
1	A	455	GLY	N-CA-C	-5.48	99.40	113.10
1	A	616	ASP	CB-CG-OD2	-5.48	113.37	118.30
1	A	345	LEU	CA-CB-CG	5.45	127.83	115.30
1	A	109	SER	CB-CA-C	5.44	120.44	110.10
1	A	658	ARG	NE-CZ-NH1	5.44	123.02	120.30
1	A	928	ARG	NE-CZ-NH1	5.38	122.99	120.30
1	A	565	ASP	CB-CG-OD2	-5.37	113.47	118.30
1	A	880	GLU	C-N-CA	-5.37	108.28	121.70
1	A	874	ARG	NE-CZ-NH2	-5.12	117.74	120.30
1	A	733	MET	CG-SD-CE	5.10	108.36	100.20
1	A	723	ASP	N-CA-CB	-5.06	101.49	110.60
1	A	363	LYS	N-CA-C	5.05	124.65	111.00
1	A	757	ASP	CB-CG-OD1	5.04	122.83	118.30
1	A	275	LEU	CB-CG-CD1	5.02	119.54	111.00

There are no chirality outliers.

All (5) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	243	THR	Peptide
1	A	263	GLY	Peptide
1	A	664	GLY	Peptide
1	A	796	GLN	Peptide
1	A	934	ALA	Peptide

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	6826	0	6602	78	0
2	A	1	0	0	0	0
3	A	113	0	0	1	1
All	All	6940	0	6602	78	1

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 (78) 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:126:MET:HE1	1:A:129:LYS:HB2	1.53	0.91
1:A:183:GLN:HB3	1:A:187:GLN:HE21	1.37	0.90
1:A:848:VAL:HG22	1:A:852:ARG:HD3	1.67	0.76
1:A:289:ASN:HD22	1:A:291:ILE:HG22	1.50	0.76
1:A:817:ASN:O	1:A:821:THR:HG23	1.90	0.72
1:A:464:SER:C	1:A:465:PHE:CD1	2.65	0.70
1:A:464:SER:O	1:A:465:PHE:CG	2.45	0.69
1:A:255:VAL:HG23	1:A:726:GLN:HB3	1.75	0.68
1:A:183:GLN:HB3	1:A:187:GLN:NE2	2.06	0.67
1:A:231:GLN:O	1:A:268:TYR:OH	2.09	0.67
1:A:540:GLN:HG2	1:A:579:PRO:HA	1.77	0.67
1:A:302:LEU:HD12	1:A:303:ALA:N	2.10	0.67
1:A:289:ASN:ND2	1:A:291:ILE:HG22	2.12	0.64
1:A:149:ILE:HG22	1:A:501:LEU:HB3	1.79	0.64
1:A:227:ASP:OD1	1:A:229:THR:HB	1.99	0.63
1:A:745:ILE:HD13	1:A:756:LEU:HD22	1.79	0.63
1:A:513:GLU:HG3	1:A:515:ILE:HG22	1.81	0.62
1:A:180:GLN:HE21	1:A:182:ASN:HB2	1.64	0.62
1:A:463:PHE:CB	1:A:515:ILE:HD13	2.31	0.61
1:A:464:SER:O	1:A:465:PHE:CD1	2.54	0.60
1:A:310:VAL:HG21	1:A:395:ILE:CD1	2.31	0.60
1:A:183:GLN:CB	1:A:187:GLN:HE21	2.13	0.59
1:A:439:TYR:CD2	1:A:678:PRO:HD3	2.38	0.58
1:A:341:ALA:HB1	1:A:378:PHE:HB3	1.87	0.57
1:A:858:THR:HG22	1:A:861:GLU:H	1.69	0.56
1:A:111:VAL:HG11	1:A:309:ILE:HG21	1.86	0.55
1:A:669:LEU:HD23	1:A:679:ILE:HG23	1.90	0.54
1:A:464:SER:C	1:A:465:PHE:CG	2.81	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:310:VAL:HG21	1:A:395:ILE:HD13	1.88	0.54
1:A:203:THR:O	1:A:425:LEU:HA	2.08	0.54
1:A:128:LYS:NZ	1:A:329:ALA:O	2.30	0.53
1:A:463:PHE:HB3	1:A:515:ILE:HD13	1.90	0.53
1:A:290:VAL:HG12	1:A:294:LEU:HD22	1.91	0.52
1:A:356:VAL:O	1:A:360:LEU:HD13	2.11	0.51
1:A:501:LEU:C	1:A:501:LEU:HD12	2.31	0.51
1:A:406:GLY:HA2	1:A:499:ASN:O	2.11	0.50
1:A:528:LYS:O	1:A:529:SER:O	2.30	0.50
1:A:117:SER:HB3	1:A:125:THR:CG2	2.41	0.50
1:A:745:ILE:HD13	1:A:756:LEU:CD2	2.43	0.49
1:A:817:ASN:O	1:A:821:THR:CG2	2.59	0.49
1:A:158:THR:O	1:A:619:ALA:HB3	2.13	0.49
1:A:41:THR:HB	1:A:42:PRO:CD	2.43	0.48
1:A:231:GLN:O	1:A:268:TYR:CZ	2.67	0.48
1:A:492:GLN:O	1:A:494:SER:N	2.46	0.48
1:A:26[B]:ASN:O	1:A:26[B]:ASN:ND2	2.46	0.48
1:A:435:SER:HB2	1:A:445:ASN:HD22	1.77	0.47
1:A:252:ALA:HA	1:A:265:PHE:CE1	2.50	0.47
1:A:357:GLU:HA	1:A:360:LEU:HD13	1.96	0.46
1:A:126:MET:CE	1:A:129:LYS:HB2	2.37	0.45
1:A:513:GLU:CG	1:A:515:ILE:HG22	2.46	0.45
1:A:554:SER:HB2	1:A:568:VAL:HG13	1.98	0.45
1:A:771:SER:OG	1:A:774:GLN:HG3	2.16	0.45
1:A:501:LEU:O	1:A:501:LEU:HD12	2.17	0.44
1:A:405:VAL:HG22	1:A:501:LEU:HD11	2.00	0.44
1:A:463:PHE:HB2	1:A:515:ILE:HD13	2.00	0.44
1:A:445:ASN:OD1	1:A:445:ASN:C	2.57	0.43
1:A:355:PHE:CE1	1:A:449:LEU:HA	2.53	0.43
1:A:904:PHE:CG	1:A:905:LEU:N	2.86	0.43
1:A:580:VAL:HG13	1:A:581:PRO:HD2	2.01	0.43
1:A:401:LYS:NZ	1:A:538:THR:O	2.34	0.43
1:A:638:VAL:CG2	1:A:748:ASN:HB3	2.49	0.42
1:A:184:TRP:CD2	1:A:199:PRO:HB3	2.55	0.42
1:A:798:LYS:NZ	1:A:800:ASP:OD1	2.50	0.42
1:A:57:LEU:HD23	1:A:114:PHE:CE1	2.55	0.42
1:A:371:HIS:ND1	1:A:376:LYS:HE3	2.35	0.42
1:A:310:VAL:CG2	1:A:395:ILE:CD1	2.97	0.41
1:A:528:LYS:C	1:A:529:SER:O	2.56	0.41
1:A:459:ILE:HG23	1:A:459:ILE:O	2.20	0.41
1:A:373:PHE:CD2	1:A:381:PRO:HG3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:369:ASN:HD22	1:A:497:LYS:NZ	2.19	0.41
1:A:621:SER:HB2	3:A:1114:HOH:O	2.21	0.41
1:A:149:ILE:HD11	1:A:215:LYS:HG2	2.02	0.40
1:A:294:LEU:O	1:A:298:SER:HB3	2.21	0.40
1:A:561:SER:OG	1:A:564:SER:O	2.34	0.40
1:A:505:THR:HB	1:A:506:PRO:CD	2.51	0.40
1:A:897:SER:HA	1:A:928:ARG:O	2.22	0.40
1:A:166:GLU:HG3	1:A:206:LYS:HB2	2.03	0.40
1:A:478:THR:O	1:A:479:THR:HG23	2.22	0.40

All (1) 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:1208:HOH:O	3:A:1208:HOH:O[4_576]	0.58	1.62

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	878/916 (96%)	793 (90%)	63 (7%)	22 (2%)	5 6

All (22) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	180	GLN
1	A	260	SER
1	A	261	SER
1	A	367	SER
1	A	493	LYS
1	A	529	SER
1	A	797	ASN

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Mol	Chain	Res	Type
1	A	179	GLY
1	A	262	SER
1	A	411	SER
1	A	453	ILE
1	A	461	ASP
1	A	465	PHE
1	A	530	ASN
1	A	532	GLU
1	A	673	ASP
1	A	364	GLU
1	A	866	PRO
1	A	459	ILE
1	A	479	THR
1	A	563	GLY
1	A	105	GLY

5.3.2 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	775/795 (98%)	716 (92%)	59 (8%)	13 20

All (59) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	79	LEU
1	A	107	LYS
1	A	118	THR
1	A	125	THR
1	A	146	LYS
1	A	149	ILE
1	A	155	THR
1	A	156	LYS
1	A	163	LEU
1	A	180	GLN
1	A	198	SER

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Mol	Chain	Res	Type
1	A	215	LYS
1	A	217	SER
1	A	260	SER
1	A	272	LYS
1	A	275	LEU
1	A	294	LEU
1	A	302	LEU
1	A	332	ASN
1	A	345	LEU
1	A	365	THR
1	A	366	THR
1	A	390	SER
1	A	391	VAL
1	A	395	ILE
1	A	401	LYS
1	A	410	SER
1	A	434	ASP
1	A	449	LEU
1	A	466	VAL
1	A	479	THR
1	A	493	LYS
1	A	500	SER
1	A	533	ARG
1	A	540	GLN
1	A	543	VAL
1	A	554	SER
1	A	561	SER
1	A	626	SER
1	A	627	VAL
1	A	629	LEU
1	A	643	LYS
1	A	665	ASN
1	A	672	THR
1	A	676	ILE
1	A	723	ASP
1	A	750	ASP
1	A	761	SER
1	A	773	THR
1	A	792	LYS
1	A	794	SER
1	A	808	LEU
1	A	821	THR

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Mol	Chain	Res	Type
1	A	854	LEU
1	A	858	THR
1	A	860	ASP
1	A	867	GLU
1	A	880	GLU
1	A	883	LYS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	96	ASN
1	A	180	GLN
1	A	187	GLN
1	A	189	ASN
1	A	194	ASN
1	A	369	ASN
1	A	454	ASN

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 carbohydrates in this entry.

5.6 Ligand geometry

Of 1 ligands modelled in this entry, 1 is 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

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, 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	A	887/916 (96%)	0.08	33 (3%) 41 41	35, 71, 135, 185	0

All (33) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	260	SER	8.2
1	A	181	ALA	5.8
1	A	178	SER	5.4
1	A	480	GLY	4.4
1	A	492	GLN	4.3
1	A	528	LYS	4.2
1	A	184	TRP	4.0
1	A	182	ASN	3.9
1	A	494	SER	3.8
1	A	104	GLN	3.7
1	A	434	ASP	3.6
1	A	530	ASN	3.4
1	A	368	THR	3.2
1	A	496	VAL	3.1
1	A	187	GLN	3.1
1	A	493	LYS	3.0
1	A	186	SER	3.0
1	A	261	SER	3.0
1	A	417	SER	2.9
1	A	183	GLN	2.8
1	A	479	THR	2.8
1	A	259	GLY	2.6
1	A	459	ILE	2.6
1	A	495	THR	2.6
1	A	365	THR	2.6
1	A	362	TYR	2.4
1	A	177	GLY	2.3

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Mol	Chain	Res	Type	RSRZ
1	A	481	PRO	2.2
1	A	412	SER	2.2
1	A	458	SER	2.2
1	A	367	SER	2.1
1	A	491	ASP	2.1
1	A	103	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 carbohydrates 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	B-factors(Å^2)	Q<0.9
2	K	A	1001	1/1	0.99	0.11	41,41,41,41	0

6.5 Other polymers (i)

There are no such residues in this entry.