



Full wwPDB X-ray Structure Validation Report ⓘ

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PDB ID : 2IX1
Title : RNASE II D209N MUTANT
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Deposited on : 2006-07-05
Resolution : 2.74 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
<http://wwpdb.org/validation/2016/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
Mogul : 1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20026688
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk26865

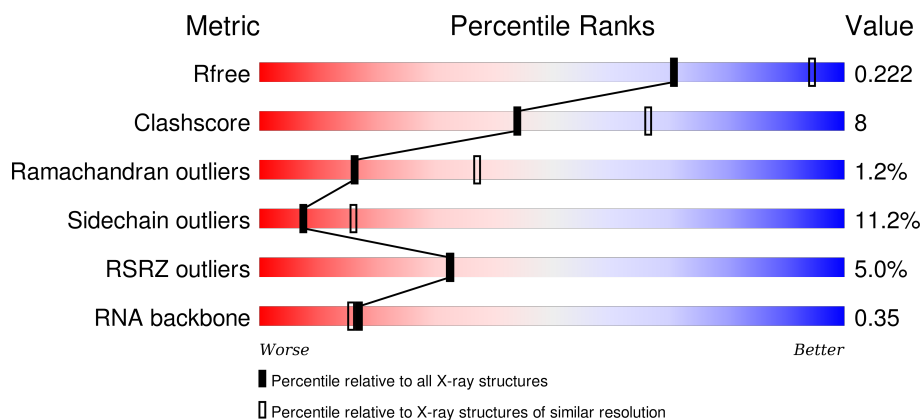
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.74 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}	91344	3050 (2.78-2.70)
Clashscore	102246	3424 (2.78-2.70)
Ramachandran outliers	100387	3367 (2.78-2.70)
Sidechain outliers	100360	3368 (2.78-2.70)
RSRZ outliers	91569	3055 (2.78-2.70)
RNA backbone	2183	1012 (3.12-2.36)

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. 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	664	<div> <div>5%</div> <div> <div></div> <div>74%</div> <div>19%</div> <div>• •</div> </div> </div>
2	B	13	<div> <div>8%</div> <div> <div>23%</div> <div>8%</div> <div>46%</div> <div>23%</div> </div> </div>

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 5439 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 EXORIBONUCLEASE 2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	643	Total	C	N	O	S	0	3	0
			5103	3222	909	950	22			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	209	ASN	ASP	ENGINEERED MUTATION	UNP P30850

- Molecule 2 is a RNA chain called 5'-D(*AP*AP*AP*AP*AP*AP*AP*AP*AP*AP*AP*AP*A)-3'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	13	Total	C	N	O	P	0	0	0
			287	130	65	79	13			

- Molecule 3 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total	Mg	0	0
			1	1		

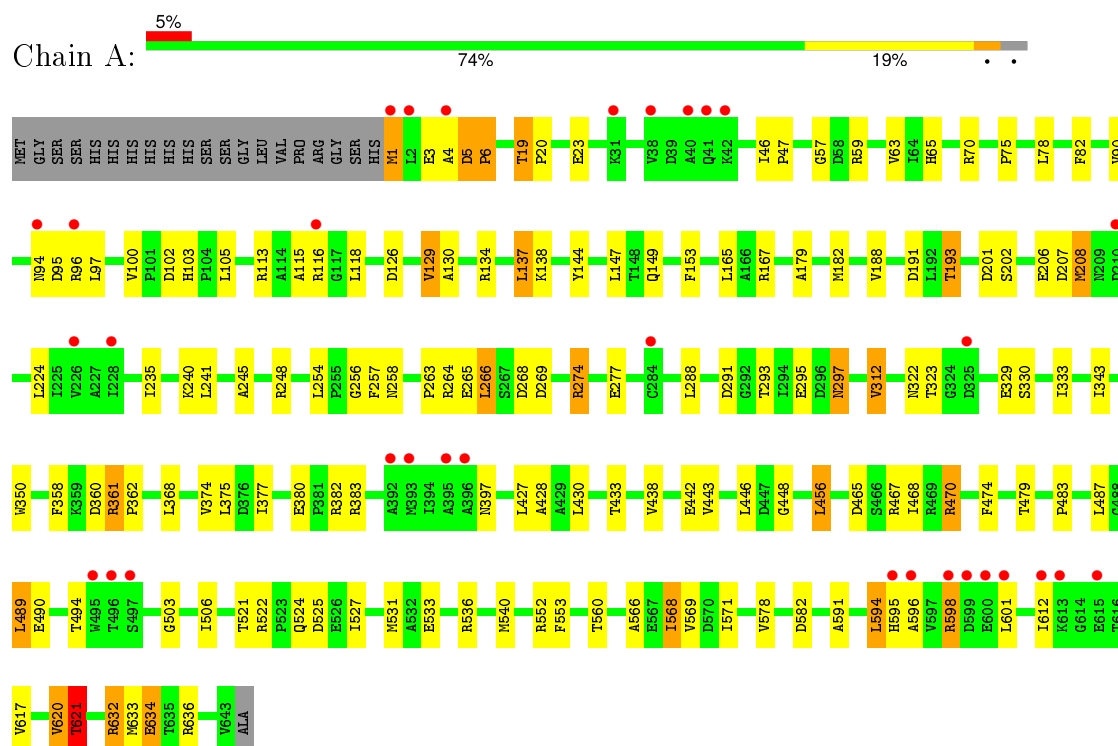
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	45	Total	O	0	0
			45	45		
4	B	3	Total	O	0	0
			3	3		

3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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: EXORIBONUCLEASE 2



• Molecule 2: 5'-D(*AP*AP*AP*AP*AP*AP*AP*AP*AP *AP*AP*A)-3'



4 Data and refinement statistics

Property	Value	Source
Space group	P 65	Depositor
Cell constants a, b, c, α , β , γ	86.32Å 86.32Å 279.25Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	29.30 – 2.74 29.29 – 2.74	Depositor EDS
% Data completeness (in resolution range)	99.9 (29.30-2.74) 99.9 (29.29-2.74)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.17 (at 2.76Å)	Xtriage
Refinement program	REFMAC 5.2.0019	Depositor
R, R_{free}	0.185 , 0.225 0.177 , 0.222	Depositor DCC
R_{free} test set	1547 reflections (5.32%)	DCC
Wilson B-factor (Å ²)	66.5	Xtriage
Anisotropy	0.077	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 45.2	EDS
Estimated twinning fraction	0.057 for h,-h-k,-l	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.51$, $\langle L^2 \rangle = 0.35$	Xtriage
Outliers	0 of 30638 reflections	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	5439	wwPDB-VP
Average B, all atoms (Å ²)	54.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.57% 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, 0.375 respectively for untwinned datasets, and 0.333, 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: MG

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	0.56	3/5224 (0.1%)	0.68	2/7073 (0.0%)
2	B	1.18	2/325 (0.6%)	1.75	8/503 (1.6%)
All	All	0.61	5/5549 (0.1%)	0.80	10/7576 (0.1%)

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	1

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	1	A	OP3-P	-10.36	1.48	1.61
1	A	1	MET	CG-SD	8.68	2.03	1.81
1	A	1	MET	N-CA	6.22	1.58	1.46
2	B	9	A	N3-C4	5.27	1.38	1.34
1	A	1	MET	CA-CB	5.25	1.65	1.53

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	5	A	O4'-C1'-N9	10.34	116.47	108.20
2	B	10	A	O4'-C4'-C3'	-8.34	95.66	104.00
2	B	2	A	P-O3'-C3'	6.61	127.63	119.70
1	A	266	LEU	CA-CB-CG	6.35	129.90	115.30
2	B	5	A	C1'-O4'-C4'	-5.97	105.12	109.90
2	B	9	A	N1-C2-N3	-5.59	126.50	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	3	A	C5'-C4'-O4'	5.39	115.57	109.10
2	B	6	A	O4'-C1'-N9	5.10	112.28	108.20
1	A	1	MET	CG-SD-CE	-5.05	92.11	100.20
2	B	12	A	C4'-C3'-C2'	-5.03	97.57	102.60

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	4	ALA	Peptide

5.2 Too-close contacts

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	5103	0	5082	83	0
2	B	287	0	144	9	0
3	A	1	0	0	0	0
4	A	45	0	0	2	0
4	B	3	0	0	0	0
All	All	5439	0	5226	85	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 8.

All (85) 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:1:MET:SD	1:A:1:MET:CG	2.03	1.46
1:A:297:ASN:HD22	1:A:297:ASN:H	1.18	0.88
1:A:620:VAL:O	1:A:621:THR:HB	1.76	0.85
1:A:126:ASP:HB3	1:A:153:PHE:HD1	1.48	0.78
1:A:179:ALA:HB2	1:A:266:LEU:HD22	1.65	0.78
1:A:129:VAL:HG13	1:A:149[A]:GLN:HB3	1.65	0.77
1:A:191:ASP:OD1	1:A:193:THR:HB	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:382:ARG:NH2	2:B:10:A:N7	2.34	0.75
1:A:598:ARG:H	1:A:598:ARG:HE	1.34	0.73
1:A:536:ARG:HG3	2:B:7:A:N1	2.04	0.72
1:A:102:ASP:HB3	2:B:5:A:H61	1.54	0.72
1:A:19:THR:HG22	1:A:20:PRO:HD2	1.77	0.67
1:A:598:ARG:NE	1:A:598:ARG:H	1.93	0.66
1:A:297:ASN:HD22	1:A:297:ASN:N	1.93	0.65
1:A:536:ARG:NH1	1:A:540:MET:HE3	2.10	0.64
1:A:487:LEU:HB3	1:A:489:LEU:HD22	1.80	0.64
1:A:265:GLU:O	1:A:269:ASP:HB3	1.97	0.63
1:A:291:ASP:OD1	1:A:293:THR:HG23	1.98	0.62
1:A:568:ILE:HD11	1:A:571:ILE:HD11	1.79	0.62
1:A:19:THR:HG22	1:A:20:PRO:CD	2.30	0.62
1:A:428:ALA:HA	1:A:438:VAL:HG13	1.82	0.62
1:A:297:ASN:ND2	1:A:297:ASN:H	1.95	0.61
1:A:129:VAL:HG13	1:A:149[B]:GLN:HB3	1.84	0.60
1:A:293:THR:HG22	1:A:350:TRP:CD1	2.39	0.58
1:A:245:ALA:O	1:A:248:ARG:O	2.23	0.57
1:A:1:MET:CE	1:A:1:MET:CG	2.84	0.56
1:A:5:ASP:O	1:A:6:PRO:C	2.44	0.56
1:A:293:THR:HG22	1:A:350:TRP:NE1	2.21	0.55
1:A:293:THR:HG22	1:A:350:TRP:HE1	1.73	0.54
1:A:612:ILE:O	1:A:612:ILE:HG13	2.07	0.54
1:A:536:ARG:NH1	1:A:540:MET:CE	2.70	0.54
1:A:598:ARG:N	1:A:598:ARG:HE	2.04	0.54
1:A:264:ARG:HD3	1:A:268:ASP:OD2	2.10	0.52
1:A:57:GLY:C	1:A:82:PHE:HB2	2.30	0.51
1:A:115:ALA:HB3	1:A:118:LEU:HD13	1.94	0.50
1:A:601:LEU:HD23	1:A:612:ILE:HG22	1.92	0.50
1:A:1:MET:SD	1:A:1:MET:CB	2.96	0.49
1:A:552:ARG:HA	1:A:633:MET:HE3	1.94	0.49
2:B:7:A:H2'	2:B:8:A:H5''	1.95	0.48
1:A:201:ASP:O	1:A:312:VAL:HA	2.14	0.48
1:A:358:PHE:CZ	2:B:8:A:C6	3.02	0.48
1:A:506:ILE:HD12	1:A:531:MET:HE1	1.94	0.47
1:A:130:ALA:HB2	1:A:147:LEU:HD23	1.96	0.47
1:A:568:ILE:HG12	1:A:620:VAL:HA	1.97	0.47
1:A:536:ARG:HD3	4:A:2040:HOH:O	2.13	0.47
1:A:361:ARG:HB2	1:A:362:PRO:HD2	1.97	0.47
1:A:78:LEU:HD23	1:A:138:LYS:HE2	1.96	0.47
1:A:503:GLY:HA2	1:A:531:MET:HE1	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:620:VAL:O	1:A:621:THR:CB	2.51	0.46
1:A:595:HIS:O	1:A:596:ALA:HB3	2.15	0.46
1:A:208:MET:HE3	1:A:208:MET:N	2.31	0.46
1:A:224:LEU:HB2	1:A:343:ILE:HD13	1.98	0.46
1:A:632:ARG:NH2	2:B:2:A:C2	2.83	0.46
1:A:46:ILE:HA	1:A:47:PRO:HD2	1.85	0.45
1:A:377:ILE:HD12	1:A:553:PHE:CD2	2.52	0.45
1:A:206:GLU:C	1:A:208:MET:HE1	2.37	0.45
1:A:397:ASN:OD1	1:A:494:THR:HA	2.16	0.45
1:A:483:PRO:HA	1:A:490:GLU:O	2.17	0.45
1:A:374:VAL:HG21	1:A:553:PHE:HB2	1.98	0.44
1:A:591:ALA:O	1:A:594:LEU:HB2	2.17	0.44
1:A:428:ALA:HA	1:A:438:VAL:CG1	2.46	0.44
1:A:442:GLU:O	1:A:448:GLY:HA3	2.18	0.44
1:A:134:ARG:HB3	1:A:144:TYR:HB3	1.98	0.44
1:A:568:ILE:HA	1:A:578:VAL:HG12	1.99	0.44
1:A:297:ASN:ND2	1:A:297:ASN:N	2.61	0.43
1:A:23:GLU:OE1	1:A:59:ARG:NH2	2.50	0.43
1:A:75:PRO:HB2	1:A:137:LEU:HD21	2.00	0.43
1:A:465:ASP:O	1:A:468:ILE:HG13	2.18	0.43
1:A:207:ASP:HB3	1:A:268:ASP:OD1	2.18	0.43
1:A:634:GLU:H	1:A:634:GLU:HG3	1.56	0.42
1:A:103:HIS:CE1	1:A:105:LEU:HB2	2.55	0.42
1:A:430:LEU:O	1:A:433:THR:HG22	2.20	0.42
1:A:256:GLY:O	1:A:257:PHE:HB3	2.20	0.42
1:A:456:LEU:HA	1:A:456:LEU:HD12	1.93	0.42
1:A:256:GLY:HA3	1:A:368:LEU:HD12	2.02	0.41
1:A:263:PRO:HB2	1:A:266:LEU:HD23	2.03	0.41
1:A:274:ARG:HD3	4:A:2026:HOH:O	2.18	0.41
1:A:566:ALA:HB1	1:A:578:VAL:HB	2.03	0.41
1:A:358:PHE:HZ	2:B:8:A:C6	2.39	0.41
1:A:620:VAL:HG12	1:A:620:VAL:O	2.20	0.41
1:A:235:ILE:HG23	1:A:241:LEU:HB2	2.02	0.41
1:A:632:ARG:NH1	2:B:2:A:H2	2.19	0.40
1:A:165:LEU:HD21	1:A:254:LEU:HD11	2.02	0.40
2:B:3:A:H8	2:B:3:A:OP2	2.04	0.40
1:A:63:VAL:HG23	1:A:65:HIS:NE2	2.36	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 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	644/664 (97%)	612 (95%)	24 (4%)	8 (1%)	16	37

All (8) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	6	PRO
1	A	94	ASN
1	A	621	THR
1	A	330	SER
1	A	470	ARG
1	A	322	ASN
1	A	620	VAL
1	A	5	ASP

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	539/553 (98%)	479 (89%)	60 (11%)	8	16

All (60) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	3	GLU
1	A	19	THR
1	A	70	ARG

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Mol	Chain	Res	Type
1	A	90	VAL
1	A	95	ASP
1	A	96	ARG
1	A	97	LEU
1	A	100	VAL
1	A	113	ARG
1	A	116	ARG
1	A	129	VAL
1	A	137	LEU
1	A	167	ARG
1	A	182	MET
1	A	188	VAL
1	A	193	THR
1	A	202	SER
1	A	208	MET
1	A	240	LYS
1	A	258	ASN
1	A	274	ARG
1	A	277	GLU
1	A	288	LEU
1	A	295	GLU
1	A	297	ASN
1	A	312	VAL
1	A	323	THR
1	A	329	GLU
1	A	333	ILE
1	A	360	ASP
1	A	361	ARG
1	A	375	LEU
1	A	380	GLU
1	A	383	ARG
1	A	427	LEU
1	A	443	VAL
1	A	446	LEU
1	A	456	LEU
1	A	467	ARG
1	A	470	ARG
1	A	474	PHE
1	A	479	THR
1	A	489	LEU
1	A	521	THR
1	A	522	ARG

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Mol	Chain	Res	Type
1	A	524	GLN
1	A	525	ASP
1	A	527	ILE
1	A	533	GLU
1	A	560	THR
1	A	568	ILE
1	A	569	VAL
1	A	582	ASP
1	A	594	LEU
1	A	598	ARG
1	A	617	VAL
1	A	621	THR
1	A	632	ARG
1	A	634	GLU
1	A	636	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (8) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	258	ASN
1	A	297	ASN
1	A	414	ASN
1	A	423	ASN
1	A	434	HIS
1	A	524	GLN
1	A	538	ASN
1	A	607	ASN

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
2	B	13/13 (100%)	6 (46%)	4 (30%)

All (6) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
2	B	2	A
2	B	3	A
2	B	5	A
2	B	6	A

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Mol	Chain	Res	Type
2	B	7	A
2	B	8	A

All (4) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
2	B	1	A
2	B	2	A
2	B	5	A
2	B	12	A

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 carbohydrates in this entry.

5.6 Ligand geometry [i](#)

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 [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 ⓘ

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	643/664 (96%)	0.06	32 (4%) 32 32	25, 51, 76, 93	0
2	B	13/13 (100%)	0.40	1 (7%) 16 15	42, 105, 164, 178	0
All	All	656/677 (96%)	0.07	33 (5%) 32 32	25, 51, 79, 178	0

All (33) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	116	ARG	5.8
1	A	599	ASP	5.2
1	A	41	GLN	5.0
2	B	6	A	4.7
1	A	613	LYS	4.3
1	A	40	ALA	4.1
1	A	4	ALA	4.0
1	A	2	LEU	3.9
1	A	393	MET	3.4
1	A	600	GLU	3.4
1	A	596	ALA	3.3
1	A	496	THR	3.1
1	A	96	ARG	3.0
1	A	228	ILE	2.9
1	A	42	LYS	2.9
1	A	595	HIS	2.9
1	A	392	ALA	2.8
1	A	396	ALA	2.8
1	A	284	CYS	2.7
1	A	31	LYS	2.6
1	A	601	LEU	2.6
1	A	226	VAL	2.6
1	A	598	ARG	2.5
1	A	94	ASN	2.4

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Mol	Chain	Res	Type	RSRZ
1	A	495	TRP	2.4
1	A	1	MET	2.3
1	A	38	VAL	2.3
1	A	612	ILE	2.3
1	A	325	ASP	2.2
1	A	395	ALA	2.2
1	A	615	GLU	2.2
1	A	210	ASP	2.1
1	A	497	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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(Å ²)	Q<0.9
3	MG	A	1644	1/1	0.96	0.17	-0.50	51,51,51,51	0

6.5 Other polymers [i](#)

There are no such residues in this entry.