



# Full wwPDB X-ray Structure Validation Report ⓘ

Oct 11, 2021 – 12:01 PM EDT

PDB ID : 2NRO  
Title : MoeA K279Q  
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Deposited on : 2006-11-02  
Resolution : 2.50 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](mailto: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.

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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 : 2.23.2  
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) : 2.23.2

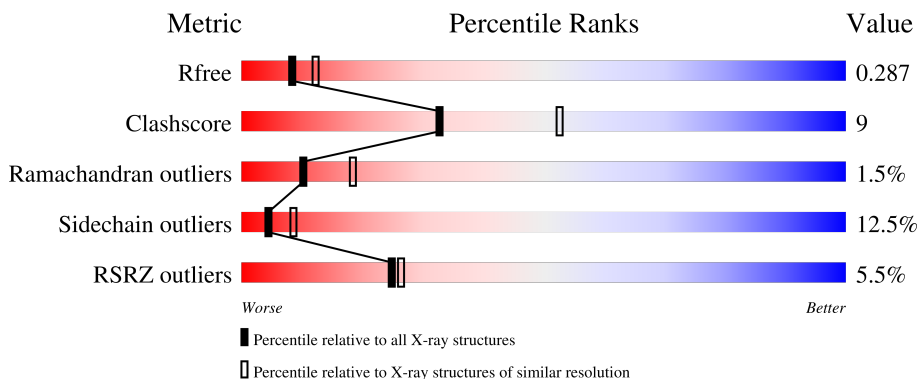
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.50 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	4661 (2.50-2.50)
Clashscore	141614	5346 (2.50-2.50)
Ramachandran outliers	138981	5231 (2.50-2.50)
Sidechain outliers	138945	5233 (2.50-2.50)
RSRZ outliers	127900	4559 (2.50-2.50)

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  $\geq 3$ , 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	411	 4% 77% 18% . .
1	B	411	 7% 76% 18% . .

## 2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 6080 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 Molybdopterin biosynthesis protein moeA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	403	3040	1917	531	579	13	0	0	0
1	B	403	3040	1917	531	579	13	0	0	0

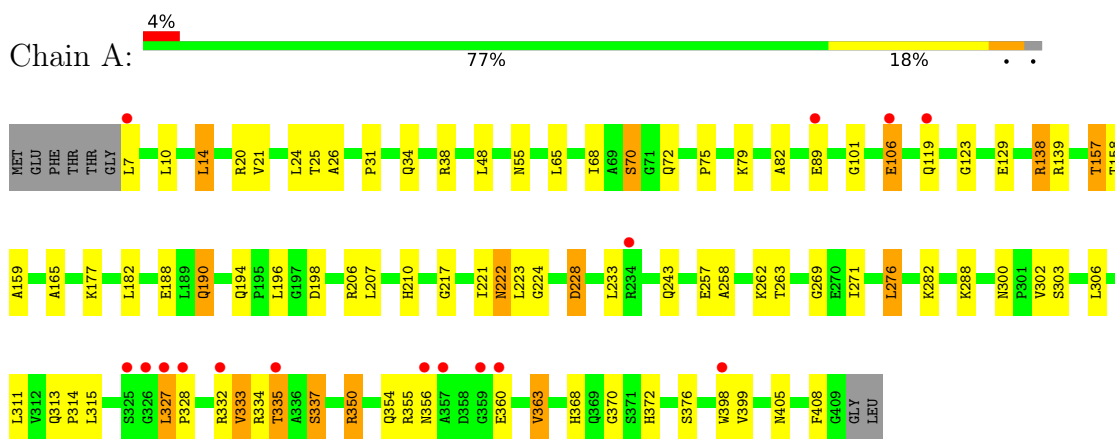
There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	279	GLN	LYS	engineered mutation	UNP P12281
B	279	GLN	LYS	engineered mutation	UNP P12281

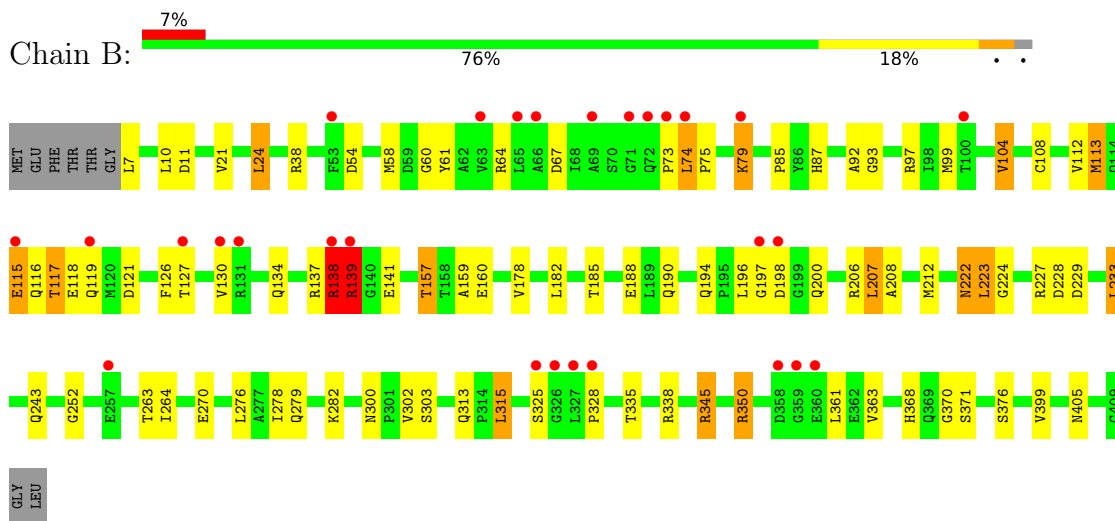
### 3 Residue-property plots [i](#)

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: Molybdopterin biosynthesis protein moeA



- Molecule 1: Molybdopterin biosynthesis protein moeA



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	89.00Å 98.33Å 99.67Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	50.00 – 2.50 40.64 – 2.40	Depositor EDS
% Data completeness (in resolution range)	96.2 (50.00-2.50) 96.0 (40.64-2.40)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.24 (at 2.39Å)	Xtrriage
Refinement program	REFMAC 5.2.0005	Depositor
R, $R_{free}$	0.242 , 0.283 0.248 , 0.287	Depositor DCC
$R_{free}$ test set	1727 reflections (5.17%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	36.8	Xtrriage
Anisotropy	0.236	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.33 , 25.9	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.49$ , $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	0.014 for -h,l,k	Xtrriage
$F_o, F_c$ correlation	0.91	EDS
Total number of atoms	6080	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	45.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.51% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical 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	0.76	0/3099	0.85	2/4213 (0.0%)
1	B	0.78	0/3099	0.90	8/4213 (0.2%)
All	All	0.77	0/6198	0.87	10/8426 (0.1%)

There are no bond length outliers.

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	139	ARG	N-CA-C	-10.59	82.42	111.00
1	A	38	ARG	NE-CZ-NH2	-10.58	115.01	120.30
1	B	138	ARG	C-N-CA	9.68	145.90	121.70
1	A	38	ARG	NE-CZ-NH1	9.49	125.05	120.30
1	B	139	ARG	N-CA-CB	9.17	127.11	110.60
1	B	38	ARG	NE-CZ-NH2	-8.38	116.11	120.30
1	B	138	ARG	CA-C-N	6.71	131.96	117.20
1	B	38	ARG	NE-CZ-NH1	6.54	123.57	120.30
1	B	345	ARG	NE-CZ-NH1	5.51	123.06	120.30
1	B	227	ARG	NE-CZ-NH2	-5.44	117.58	120.30

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	3040	0	3032	51	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	B	3040	0	3032	56	0
All	All	6080	0	6064	105	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 9.

All (105) 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:B:368:HIS:HD2	1:B:370:GLY:H	1.18	0.91
1:B:279:GLN:HG2	1:B:345:ARG:CZ	2.10	0.82
1:A:300:ASN:HD22	1:A:303:SER:H	1.33	0.77
1:B:279:GLN:HE21	1:B:345:ARG:NH2	1.83	0.76
1:A:313:GLN:HE22	1:A:405:ASN:HD21	1.32	0.75
1:B:222:ASN:HD22	1:B:224:GLY:H	1.35	0.73
1:B:138:ARG:O	1:B:141:GLU:HB3	1.89	0.73
1:A:356:ASN:HD21	1:A:360:GLU:HB2	1.53	0.72
1:B:313:GLN:HE22	1:B:405:ASN:HD21	1.37	0.71
1:B:368:HIS:CD2	1:B:370:GLY:H	2.07	0.71
1:A:221:ILE:HD13	1:A:243:GLN:HG3	1.73	0.71
1:B:279:GLN:HG2	1:B:345:ARG:NH1	2.07	0.69
1:B:139:ARG:O	1:B:139:ARG:HG3	1.93	0.69
1:A:157:THR:HG22	1:A:159:ALA:H	1.58	0.68
1:B:278:ILE:O	1:B:345:ARG:HD2	1.94	0.68
1:B:222:ASN:ND2	1:B:224:GLY:H	1.93	0.67
1:A:222:ASN:HD22	1:A:224:GLY:H	1.42	0.67
1:B:74:LEU:HD21	1:B:126:PHE:CE1	2.32	0.65
1:B:300:ASN:HD21	1:B:371:SER:HB2	1.61	0.65
1:B:54:ASP:OD1	1:B:139:ARG:HB3	1.98	0.64
1:B:21:VAL:HG21	1:B:315:LEU:HD12	1.81	0.62
1:A:356:ASN:ND2	1:A:360:GLU:HB2	2.15	0.62
1:B:54:ASP:OD1	1:B:138:ARG:HA	1.99	0.62
1:B:64:ARG:HD2	1:B:67:ASP:OD1	1.99	0.62
1:B:300:ASN:HD22	1:B:303:SER:H	1.48	0.61
1:B:157:THR:HG22	1:B:159:ALA:H	1.64	0.61
1:A:300:ASN:ND2	1:A:303:SER:H	1.99	0.61
1:B:313:GLN:HE22	1:B:405:ASN:ND2	1.99	0.60
1:A:106:GLU:H	1:A:106:GLU:CD	2.05	0.59
1:B:104:VAL:HG13	1:B:108:CYS:HB3	1.86	0.58
1:B:21:VAL:HG21	1:B:315:LEU:CD1	2.34	0.58
1:A:157:THR:CG2	1:A:159:ALA:H	2.15	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:185:THR:O	1:B:252:GLY:HA3	2.02	0.58
1:B:279:GLN:NE2	1:B:345:ARG:NH2	2.51	0.57
1:B:130:VAL:HA	1:B:134:GLN:HE22	1.69	0.57
1:B:190:GLN:OE1	1:B:200:GLN:OE1	2.22	0.56
1:A:31:PRO:HG2	1:A:34:GLN:NE2	2.21	0.56
1:A:206:ARG:HH11	1:A:222:ASN:HD21	1.52	0.56
1:A:300:ASN:HD21	1:A:302:VAL:HB	1.70	0.55
1:A:190:GLN:HE21	1:A:190:GLN:HA	1.72	0.55
1:A:222:ASN:ND2	1:A:224:GLY:H	2.04	0.55
1:A:313:GLN:HB3	1:A:314:PRO:HD3	1.88	0.55
1:A:313:GLN:HE22	1:A:405:ASN:ND2	2.04	0.55
1:B:157:THR:HB	1:B:160:GLU:OE2	2.07	0.54
1:A:368:HIS:CD2	1:A:370:GLY:H	2.24	0.54
1:B:279:GLN:HE21	1:B:345:ARG:HH21	1.53	0.54
1:B:60:GLY:HA3	1:B:112:VAL:O	2.08	0.53
1:A:70:SER:HB3	1:A:72:GLN:OE1	2.08	0.53
1:A:350:ARG:HD2	1:A:376:SER:OG	2.08	0.53
1:B:222:ASN:HD22	1:B:222:ASN:C	2.12	0.53
1:A:21:VAL:HG21	1:A:315:LEU:CD1	2.39	0.53
1:A:157:THR:HG22	1:A:159:ALA:N	2.25	0.52
1:B:279:GLN:CG	1:B:345:ARG:CZ	2.85	0.52
1:A:335:THR:CG2	1:A:337:SER:O	2.59	0.51
1:A:177:LYS:HD3	1:A:217:GLY:O	2.10	0.51
1:B:58:MET:SD	1:B:113:MET:HG2	2.51	0.50
1:B:113:MET:HE1	1:B:115:GLU:HB2	1.94	0.50
1:B:54:ASP:OD2	1:B:138:ARG:NH1	2.45	0.50
1:A:55:ASN:ND2	1:A:101:GLY:HA2	2.27	0.50
1:A:25:THR:O	1:A:26:ALA:C	2.49	0.49
1:A:334:ARG:HG3	1:A:398:TRP:CZ3	2.48	0.49
1:B:85:PRO:HB2	1:B:87:HIS:CE1	2.47	0.49
1:B:350:ARG:HD2	1:B:376:SER:OG	2.13	0.49
1:B:113:MET:CE	1:B:115:GLU:HB2	2.43	0.49
1:A:276:LEU:HD21	1:A:311:LEU:HD11	1.96	0.48
1:B:75:PRO:HD2	1:B:93:GLY:O	2.13	0.48
1:B:74:LEU:H	1:B:74:LEU:CD2	2.27	0.48
1:B:208:ALA:O	1:B:212:MET:HG3	2.14	0.48
1:A:368:HIS:CD2	1:A:372:HIS:HE1	2.32	0.48
1:B:61:TYR:CE1	1:B:117:THR:HG21	2.48	0.47
1:A:55:ASN:HD22	1:A:101:GLY:HA2	1.79	0.47
1:A:165:ALA:HB2	1:B:207:LEU:HD12	1.96	0.46
1:A:335:THR:HG21	1:A:337:SER:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:104:VAL:HG13	1:B:108:CYS:CB	2.45	0.46
1:A:210:HIS:HD2	1:A:222:ASN:OD1	1.99	0.46
1:A:306:LEU:C	1:A:306:LEU:HD13	2.36	0.45
1:A:332:ARG:HG2	1:A:398:TRP:CE3	2.51	0.45
1:B:157:THR:CG2	1:B:159:ALA:H	2.30	0.45
1:A:333:VAL:HG12	1:A:363:VAL:HG22	1.98	0.45
1:A:335:THR:HG22	1:A:337:SER:H	1.82	0.45
1:A:138:ARG:O	1:A:139:ARG:C	2.55	0.44
1:B:24:LEU:HD22	1:B:178:VAL:HG22	1.99	0.44
1:A:333:VAL:HG13	1:A:334:ARG:N	2.33	0.44
1:A:333:VAL:CG1	1:A:363:VAL:HG22	2.48	0.44
1:A:157:THR:HG23	1:A:158:THR:N	2.33	0.43
1:A:14:LEU:HD11	1:A:327:LEU:HD21	2.00	0.43
1:B:74:LEU:H	1:B:74:LEU:HD23	1.82	0.43
1:A:408:PHE:HA	1:B:157:THR:HG23	2.00	0.42
1:A:75:PRO:HA	1:A:123:GLY:HA2	2.01	0.42
1:B:104:VAL:CG1	1:B:108:CYS:HB3	2.48	0.42
1:B:206:ARG:HH11	1:B:222:ASN:HD21	1.66	0.42
1:B:74:LEU:HD21	1:B:126:PHE:HE1	1.81	0.42
1:A:106:GLU:CD	1:A:106:GLU:N	2.72	0.42
1:B:233:LEU:HB3	1:B:264:ILE:HD13	2.02	0.42
1:A:222:ASN:HD22	1:A:222:ASN:C	2.24	0.41
1:A:269:GLY:C	1:A:271:ILE:HD12	2.41	0.41
1:A:258:ALA:HA	1:A:262:LYS:HD3	2.01	0.41
1:B:79:LYS:HA	1:B:97:ARG:O	2.20	0.41
1:B:300:ASN:HD21	1:B:302:VAL:HB	1.85	0.41
1:A:157:THR:CG2	1:A:158:THR:N	2.84	0.40
1:A:14:LEU:CD1	1:A:327:LEU:HD21	2.51	0.40
1:B:300:ASN:ND2	1:B:371:SER:HB2	2.34	0.40
1:B:190:GLN:OE1	1:B:200:GLN:NE2	2.54	0.40
1:A:333:VAL:CG1	1:A:334:ARG:N	2.83	0.40
1:B:222:ASN:HD22	1:B:223:LEU:N	2.19	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	401/411 (98%)	380 (95%)	16 (4%)	5 (1%)	13	24
1	B	401/411 (98%)	377 (94%)	17 (4%)	7 (2%)	9	16
All	All	802/822 (98%)	757 (94%)	33 (4%)	12 (2%)	10	18

All (12) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	198	ASP
1	A	282	LYS
1	B	139	ARG
1	B	282	LYS
1	A	228	ASP
1	A	328	PRO
1	B	197	GLY
1	B	198	ASP
1	A	82	ALA
1	B	92	ALA
1	B	73	PRO
1	B	328	PRO

### 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	325/331 (98%)	286 (88%)	39 (12%)	5	9
1	B	325/331 (98%)	283 (87%)	42 (13%)	4	8
All	All	650/662 (98%)	569 (88%)	81 (12%)	4	8

All (81) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	7	LEU
1	A	10	LEU
1	A	14	LEU
1	A	20	ARG
1	A	24	LEU
1	A	48	LEU
1	A	65	LEU
1	A	68	ILE
1	A	70	SER
1	A	79	LYS
1	A	89	GLU
1	A	106	GLU
1	A	119	GLN
1	A	129	GLU
1	A	138	ARG
1	A	157	THR
1	A	182	LEU
1	A	188	GLU
1	A	190	GLN
1	A	194	GLN
1	A	196	LEU
1	A	207	LEU
1	A	222	ASN
1	A	223	LEU
1	A	228	ASP
1	A	233	LEU
1	A	257	GLU
1	A	263	THR
1	A	276	LEU
1	A	288	LYS
1	A	327	LEU
1	A	333	VAL
1	A	335	THR
1	A	337	SER
1	A	350	ARG
1	A	354	GLN
1	A	355	ARG
1	A	363	VAL
1	A	399	VAL
1	B	7	LEU
1	B	10	LEU
1	B	11	ASP
1	B	24	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	B	74	LEU
1	B	79	LYS
1	B	99	MET
1	B	104	VAL
1	B	113	MET
1	B	115	GLU
1	B	116	GLN
1	B	117	THR
1	B	118	GLU
1	B	119	GLN
1	B	121	ASP
1	B	127	THR
1	B	137	ARG
1	B	138	ARG
1	B	139	ARG
1	B	157	THR
1	B	182	LEU
1	B	188	GLU
1	B	194	GLN
1	B	196	LEU
1	B	207	LEU
1	B	222	ASN
1	B	223	LEU
1	B	228	ASP
1	B	229	ASP
1	B	233	LEU
1	B	243	GLN
1	B	263	THR
1	B	270	GLU
1	B	276	LEU
1	B	315	LEU
1	B	325	SER
1	B	335	THR
1	B	338	ARG
1	B	350	ARG
1	B	361	LEU
1	B	363	VAL
1	B	399	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (22) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	15	ASN
1	A	34	GLN
1	A	55	ASN
1	A	114	GLN
1	A	190	GLN
1	A	194	GLN
1	A	210	HIS
1	A	222	ASN
1	A	300	ASN
1	A	313	GLN
1	A	368	HIS
1	B	15	ASN
1	B	87	HIS
1	B	134	GLN
1	B	200	GLN
1	B	210	HIS
1	B	222	ASN
1	B	243	GLN
1	B	279	GLN
1	B	300	ASN
1	B	313	GLN
1	B	368	HIS

### 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](#)

There are no ligands in this entry.

## 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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	403/411 (98%)	0.17	16 (3%) 38 41	26, 40, 64, 80	0
1	B	403/411 (98%)	0.43	28 (6%) 16 17	27, 44, 74, 87	0
All	All	806/822 (98%)	0.30	44 (5%) 25 26	26, 42, 71, 87	0

All (44) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	326	GLY	7.6
1	B	198	ASP	5.9
1	B	130	VAL	5.2
1	B	327	LEU	5.1
1	A	327	LEU	4.8
1	B	325	SER	4.8
1	B	66	ALA	4.4
1	A	326	GLY	4.1
1	B	115	GLU	4.0
1	A	325	SER	4.0
1	B	100	THR	3.9
1	A	398	TRP	3.8
1	B	197	GLY	3.6
1	A	357	ALA	3.4
1	A	119	GLN	3.2
1	B	65	LEU	3.0
1	B	131	ARG	3.0
1	A	360	GLU	2.9
1	A	234	ARG	2.9
1	B	139	ARG	2.9
1	A	106	GLU	2.8
1	A	359	GLY	2.8
1	B	127	THR	2.7
1	B	359	GLY	2.7

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Mol	Chain	Res	Type	RSRZ
1	B	328	PRO	2.6
1	A	89	GLU	2.6
1	B	71	GLY	2.6
1	B	73	PRO	2.5
1	B	358	ASP	2.5
1	B	119	GLN	2.5
1	B	79	LYS	2.3
1	B	72	GLN	2.2
1	B	63	VAL	2.2
1	B	53	PHE	2.2
1	B	69	ALA	2.1
1	A	332	ARG	2.1
1	A	356	ASN	2.1
1	B	257	GLU	2.1
1	B	360	GLU	2.1
1	B	138	ARG	2.1
1	A	335	THR	2.1
1	B	74	LEU	2.1
1	A	328	PRO	2.0
1	A	7	LEU	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 monosaccharides 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.