

Full wwPDB X-ray Structure Validation Report (i)

Jun 13, 2024 – 08:14 AM EDT

:	4G3V
:	Crystal structure of A. Aeolicus nlh2 gaf domain in an inactive state
:	Batchelor, J.D.; Lee, P.; Wang, A.; Doucleff, M.; Wemmer, D.E.
	2012-07-15
:	1.70 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:

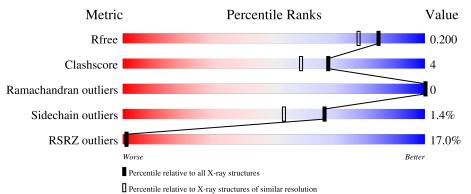
MolProbity Xtriage (Phenix) EDS	:	
		2.30.2 20191225.v01 (using entries in the PDB archive December 25th 2019)
		5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36.2

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 1.70 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	$egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R _{free}	130704	4298 (1.70-1.70)
Clashscore	141614	4695 (1.70-1.70)
Ramachandran outliers	138981	4610 (1.70-1.70)
Sidechain outliers	138945	4610 (1.70-1.70)
RSRZ outliers	127900	4222 (1.70-1.70)

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	172	86%	8%	6%
1	В	172	18% 85%	8%	• 6%



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2 Entry composition (i)

There are 3 unique types of molecules in this entry. The entry contains 5497 atoms, of which 2727 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 Transcriptional regulator nlh2.

Mol	Chain	Residues		Atoms			ZeroOcc	AltConf	Trace		
1	Λ	162	Total	С	Η	Ν	Ο	\mathbf{S}	0	3	0
	Л	102	2671	852	1370	216	231	2	0	5	0
1	В	162	Total	С	Η	Ν	0	S	0	n	0
	D	102	2653	847	1357	216	231	2	0	Δ	0

• Molecule 2 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	А	3	Total Cl 3 3	0	0
2	В	1	Total Cl 1 1	0	0

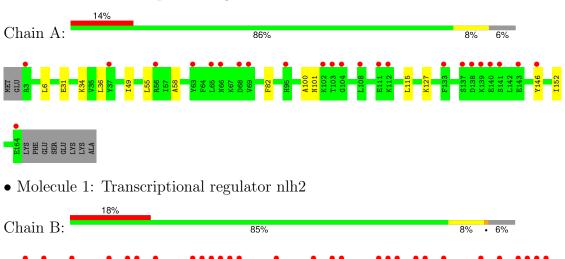
• Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	96	Total O 96 96	0	0
3	В	73	Total O 73 73	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: Transcriptional regulator nlh2

ER ER YS YS



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 32 2 1	Depositor
Cell constants	65.45Å 65.45 Å 128.59 Å	Deperitor
a, b, c, α , β , γ	90.00° 90.00° 120.00°	Depositor
Resolution (Å)	19.16 - 1.70	Depositor
Resolution (A)	19.16 - 1.70	EDS
% Data completeness	99.7 (19.16 - 1.70)	Depositor
(in resolution range)	99.7 (19.16 - 1.70)	EDS
R _{merge}	0.04	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.90 (at 1.70 \text{\AA})$	Xtriage
Refinement program	PHENIX (phenix.refine: 1.7.3_928)	Depositor
R, R_{free}	0.163 , 0.206	Depositor
II, II, ree	0.159 , 0.200	DCC
R_{free} test set	1947 reflections $(5.45%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	30.6	Xtriage
Anisotropy	0.178	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.48 , 65.4	EDS
L-test for twinning ²	$< L >=0.49, < L^2>=0.32$	Xtriage
Estimated twinning fraction	0.031 for -h,-k,l	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	5497	wwPDB-VP
Average B, all atoms $(Å^2)$	49.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The analyses of the Patterson function reveals a significant off-origin peak that is 46.45 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 1.1427e-04. The detected translational NCS is most likely also responsible for the elevated intensity ratio.

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: CL

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	
	Unam	RMSZ	# Z > 5	RMSZ	# Z > 5
1	А	0.40	0/1332	0.52	0/1788
1	В	0.39	0/1324	0.49	0/1777
All	All	0.40	0/2656	0.50	0/3565

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	1301	1370	1375	10	0
1	В	1296	1357	1364	10	0
2	А	3	0	0	0	0
2	В	1	0	0	0	0
3	А	96	0	0	2	0
3	В	73	0	0	0	0
All	All	2770	2727	2739	20	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 4.

All (20) close contacts within the same asymmetric unit are listed below, sorted by their clash



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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:87:PRO:HG3	1:B:146:TYR:OH	2.09	0.52
1:A:36:LEU:HD21	1:A:152:ILE:CD1	2.44	0.48
1:B:36:LEU:HD21	1:B:152:ILE:CD1	2.44	0.47
1:A:49:ILE:HD12	1:A:58:ALA:CB	2.45	0.47
1:B:36:LEU:HD21	1:B:152:ILE:HD13	1.97	0.47
1:A:36:LEU:HD21	1:A:152:ILE:HD13	1.98	0.46
1:A:49:ILE:HD12	1:A:58:ALA:HB2	1.99	0.45
1:A:100:ALA:O	1:A:101:ASN:C	2.56	0.44
1:B:60:SER:HB2	1:B:64:PHE:HB2	1.98	0.44
1:B:48:ALA:HB1	1:B:55:LEU:HG	2.00	0.43
1:A:115:LEU:C	1:A:115:LEU:HD23	2.39	0.43
1:A:31:GLU:HA	1:A:34[A]:LYS:HE3	1.99	0.43
1:B:115:LEU:C	1:B:115:LEU:HD23	2.40	0.42
1:B:65:LEU:HD13	1:B:66:ASN:N	2.35	0.41
1:A:127:LYS:NZ	3:A:380:HOH:O	2.53	0.41
1:A:55:LEU:HG	1:A:82:PHE:CD2	2.55	0.41
1:B:55:LEU:O	1:B:70:ALA:HA	2.21	0.41
1:B:100:ALA:O	1:B:101:ASN:C	2.59	0.41
1:B:36:LEU:HD23	1:B:36:LEU:HA	1.92	0.40
1:A:34[B]:LYS:NZ	3:A:346:HOH:O	2.54	0.40

magnitude.

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	А	163/172~(95%)	162 (99%)	1 (1%)	0	100	100
1	В	162/172~(94%)	160 (99%)	2(1%)	0	100	100
All	All	325/344~(94%)	322~(99%)	3 (1%)	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	А	142/148~(96%)	140~(99%)	2(1%)	67 53		
1	В	141/148~(95%)	139 (99%)	2(1%)	67 53		
All	All	283/296~(96%)	279~(99%)	4 (1%)	67 53		

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	6	LEU
1	А	146	TYR
1	В	6	LEU
1	В	65	LEU

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)

Of 4 ligands modelled in this entry, 4 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	$\langle RSRZ \rangle$	#RSRZ>2		$\mathbf{OWAB}(\mathbf{\AA}^2)$	Q<0.9
1	А	162/172~(94%)	0.55	24 (14%) 2	2	22, 36, 70, 92	0
1	В	162/172~(94%)	0.76	31 (19%) 1	1	22, 41, 87, 115	0
All	All	324/344~(94%)	0.66	55 (16%) 1	1	22, 38, 83, 115	0

All (55) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	139	LYS	8.1
1	В	65	LEU	6.8
1	В	53	ASN	6.7
1	А	63	TYR	6.1
1	В	104	GLY	5.8
1	В	63	TYR	5.6
1	В	139	LYS	5.4
1	В	68	ASP	4.8
1	А	65	LEU	4.5
1	В	102	LYS	4.5
1	В	3	ARG	4.2
1	А	137	SER	4.1
1	А	108	LEU	4.1
1	А	3	ARG	3.9
1	А	68	ASP	3.9
1	В	137	SER	3.8
1	В	37	TYR	3.7
1	А	140	GLU	3.7
1	В	72	LYS	3.7
1	В	138	ASP	3.7
1	А	111	GLU	3.5
1	В	95	HIS	3.4
1	А	66	ASN	3.4
1	А	143	GLU	3.4

Continued on next page...



1 A 164 GLU 3.4 1 B 67 LYS 3.3 1 B 140 GLU 3.2 1 B 51 GLU 3.2 1 B 164 GLU 3.2 1 A 102 LYS 3.0 1 A 102 LYS 3.0 1 A 56 ARG 2.9 1 A 56 ARG 2.9 1 A 95 HIS 2.7 1 B 54 THR 2.7 1 B 54 THR 2.7 1 B 54 THR 2.7 1 B 104 GLY 2.6 1 B 11 GLU 2.6 1 B 11 GLU 2.6 1 B 66 ASN 2.5 1 B 64 PHE 2.5 1 B 133	Mol	Chain	Res	Type	RSRZ
1 B 140 GLU 3.2 1 B 51 GLU 3.2 1 B 164 GLU 3.2 1 A 102 LYS 3.0 1 A 102 LYS 3.0 1 A 56 ARG 2.9 1 A 138 ASP 2.9 1 A 95 HIS 2.7 1 B 6 LEU 2.7 1 B 54 THR 2.7 1 B 54 THR 2.7 1 B 97 SER 2.6 1 A 104 GLY 2.6 1 B 111 GLU 2.6 1 B 104 GLY 2.6 1 B 66 ASN 2.5 1 B 64 PHE 2.5 1 B 133 PHE 2.5 1 B 108	1	А	164		3.4
1 B 51 GLU 3.2 1 B 164 GLU 3.2 1 A 102 LYS 3.0 1 A 56 ARG 2.9 1 A 138 ASP 2.9 1 A 138 ASP 2.9 1 A 95 HIS 2.7 1 B 54 THR 2.7 1 B 54 THR 2.7 1 B 97 SER 2.6 1 A 104 GLY 2.6 1 B 111 GLU 2.6 1 B 111 GLU 2.6 1 B 111 GLU 2.6 1 B 66 ASN 2.5 1 B 66 ASN 2.5 1 B 133 PHE 2.5 1 B 108 LEU 2.3 1 A 112	1	В	67	LYS	3.3
1 B 164 GLU 3.2 1 A 102 LYS 3.0 1 A 56 ARG 2.9 1 A 138 ASP 2.9 1 A 138 ASP 2.9 1 B 6 LEU 2.7 1 B 54 THR 2.7 1 B 54 THR 2.7 1 B 97 SER 2.6 1 B 97 SER 2.6 1 B 104 GLY 2.6 1 B 11 GLU 2.6 1 B 11 GLU 2.6 1 B 66 ASN 2.5 1 B 64 PHE 2.5 1 B 133 PHE 2.5 1 B 108 LEU 2.3 1 A 112 LYS 2.3 1 A 141	1	В	140	GLU	3.2
1 A 102 LYS 3.0 1 A 56 ARG 2.9 1 A 138 ASP 2.9 1 B 6 LEU 2.7 1 A 95 HIS 2.7 1 B 54 THR 2.7 1 B 97 SER 2.6 1 B 97 SER 2.6 1 B 11 GLY 2.6 1 B 111 GLU 2.6 1 B 111 GLU 2.6 1 B 111 GLU 2.6 1 B 66 ASN 2.5 1 B 66 ASN 2.5 1 B 133 PHE 2.5 1 B 108 LEU 2.3 1 B 108 LEU 2.3 1 A 141 SER 2.3 1 A 141	1	В	51	GLU	3.2
1 A 56 ARG 2.9 1 A 138 ASP 2.9 1 B 6 LEU 2.7 1 A 95 HIS 2.7 1 B 54 THR 2.7 1 B 97 SER 2.6 1 B 97 SER 2.6 1 A 104 GLY 2.6 1 B 111 GLU 2.6 1 B 166 ASN 2.5 1 B 56 ARG 2.5 1 B 66 ASN 2.5 1 B 64 PHE 2.5 1 B 133 PHE 2.5 1 B 108 LEU 2.3 1 B 108 LEU 2.3 1 A 112 LYS 2.3 1 A 141 SER 2.3 1 A 141	1	В	164	GLU	3.2
1 A 138 ASP 2.9 1 B 6 LEU 2.7 1 A 95 HIS 2.7 1 B 54 THR 2.7 1 B 54 THR 2.7 1 B 97 SER 2.6 1 A 104 GLY 2.6 1 B 11 GLU 2.6 1 B 11 GLU 2.6 1 B 66 ASN 2.5 1 B 66 ASN 2.5 1 B 64 PHE 2.5 1 B 133 PHE 2.5 1 B 108 LEU 2.3 1 B 108 LEU 2.3 1 B 129 VAL 2.3 1 A 141 SER 2.3 1 B 107 ARG 2.2 1 A 146	1	А	102	LYS	3.0
1 B 6 LEU 2.7 1 A 95 HIS 2.7 1 B 54 THR 2.7 1 B 97 SER 2.6 1 A 104 GLY 2.6 1 B 111 GLU 2.6 1 B 111 GLU 2.6 1 B 56 ARG 2.5 1 B 66 ASN 2.5 1 B 64 PHE 2.5 1 B 133 PHE 2.5 1 B 108 LEU 2.3 1 B 108 LEU 2.3 1 B 108 LEU 2.3 1 A 112 LYS 2.3 1 B 107 ARG 2.2 1 B 107 ARG 2.2 1 B 143 GLU 2.2 1 A 146	1	А	56	ARG	2.9
1 A 95 HIS 2.7 1 B 54 THR 2.7 1 B 97 SER 2.6 1 A 104 GLY 2.6 1 B 111 GLU 2.6 1 B 111 GLU 2.6 1 B 56 ARG 2.5 1 B 66 ASN 2.5 1 A 37 TYR 2.5 1 B 64 PHE 2.5 1 B 133 PHE 2.5 1 B 108 LEU 2.3 1 B 108 LEU 2.3 1 A 112 LYS 2.3 1 A 141 SER 2.3 1 B 107 ARG 2.2 1 B 143 GLU 2.2 1 A 146 TYR 2.2 1 A 103	1	А	138	ASP	2.9
1 B 54 THR 2.7 1 B 97 SER 2.6 1 A 104 GLY 2.6 1 B 111 GLU 2.6 1 B 111 GLU 2.6 1 B 56 ARG 2.5 1 B 66 ASN 2.5 1 A 37 TYR 2.5 1 B 64 PHE 2.5 1 B 133 PHE 2.5 1 B 108 LEU 2.3 1 B 108 LEU 2.3 1 A 112 LYS 2.3 1 A 112 LYS 2.3 1 A 141 SER 2.3 1 B 107 ARG 2.2 1 B 143 GLU 2.2 1 A 146 TYR 2.2 1 A 103 <td>1</td> <td>В</td> <td>6</td> <td>LEU</td> <td>2.7</td>	1	В	6	LEU	2.7
1 B 97 SER 2.6 1 A 104 GLY 2.6 1 B 111 GLU 2.6 1 B 56 ARG 2.5 1 B 66 ASN 2.5 1 B 66 ASN 2.5 1 A 37 TYR 2.5 1 B 64 PHE 2.5 1 B 133 PHE 2.5 1 B 133 PHE 2.5 1 B 108 LEU 2.3 1 B 108 LEU 2.3 1 A 112 LYS 2.3 1 A 141 SER 2.3 1 A 141 SER 2.2 1 B 107 ARG 2.2 1 B 143 GLU 2.2 1 A 146 TYR 2.2 1 A 69	1	А	95	HIS	2.7
1 A 104 GLY 2.6 1 B 111 GLU 2.6 1 B 56 ARG 2.5 1 B 66 ASN 2.5 1 A 37 TYR 2.5 1 A 37 TYR 2.5 1 B 64 PHE 2.5 1 B 133 PHE 2.5 1 B 133 PHE 2.5 1 B 108 LEU 2.3 1 B 108 LEU 2.3 1 A 112 LYS 2.3 1 A 112 LYS 2.3 1 A 141 SER 2.3 1 A 141 SER 2.3 1 B 107 ARG 2.2 1 B 143 GLU 2.2 1 A 146 TYR 2.2 1 A 103 <td>1</td> <td>В</td> <td>54</td> <td>THR</td> <td>2.7</td>	1	В	54	THR	2.7
1 B 111 GLU 2.6 1 B 56 ARG 2.5 1 B 66 ASN 2.5 1 A 37 TYR 2.5 1 A 37 TYR 2.5 1 B 64 PHE 2.5 1 B 133 PHE 2.5 1 B 133 PHE 2.5 1 B 133 PHE 2.5 1 B 108 LEU 2.3 1 B 108 LEU 2.3 1 A 112 LYS 2.3 1 A 141 SER 2.3 1 A 141 SER 2.3 1 A 141 SER 2.2 1 B 107 ARG 2.2 1 A 146 TYR 2.2 1 A 69 VAL 2.2 1 A 103 <td>1</td> <td>В</td> <td>97</td> <td>SER</td> <td>2.6</td>	1	В	97	SER	2.6
1 B 56 ARG 2.5 1 B 66 ASN 2.5 1 A 37 TYR 2.5 1 B 64 PHE 2.5 1 B 133 PHE 2.5 1 B 133 PHE 2.5 1 B 133 PHE 2.5 1 B 103 LEU 2.3 1 B 108 LEU 2.3 1 A 112 LYS 2.3 1 B 129 VAL 2.3 1 A 141 SER 2.3 1 B 107 ARG 2.2 1 B 143 GLU 2.2 1 A 146 TYR 2.2 1 A 69 VAL 2.2 1 A 103 THR 2.1 1 B 103 THR 2.1	1	А	104	GLY	2.6
1 B 66 ASN 2.5 1 A 37 TYR 2.5 1 B 64 PHE 2.5 1 B 133 PHE 2.5 1 B 133 PHE 2.5 1 B 133 PHE 2.5 1 B 108 LEU 2.3 1 B 108 LEU 2.3 1 A 112 LYS 2.3 1 B 129 VAL 2.3 1 B 129 VAL 2.3 1 A 141 SER 2.3 1 B 107 ARG 2.2 1 B 143 GLU 2.2 1 A 146 TYR 2.2 1 A 69 VAL 2.2 1 A 103 THR 2.1 1 B 103 THR 2.1	1	В	111	GLU	2.6
1 A 37 TYR 2.5 1 B 64 PHE 2.5 1 B 133 PHE 2.5 1 B 98 ALA 2.4 1 B 98 ALA 2.4 1 B 108 LEU 2.3 1 A 112 LYS 2.3 1 B 129 VAL 2.3 1 B 129 VAL 2.3 1 B 107 ARG 2.2 1 B 107 ARG 2.2 1 B 143 GLU 2.2 1 A 146 TYR 2.2 1 A 69 VAL 2.2 1 A 103 THR 2.1 1 B 103 THR 2.1	1	В	56	ARG	2.5
1 B 64 PHE 2.5 1 B 133 PHE 2.5 1 B 98 ALA 2.4 1 B 108 LEU 2.3 1 A 112 LYS 2.3 1 A 112 LYS 2.3 1 B 129 VAL 2.3 1 B 129 VAL 2.3 1 B 129 VAL 2.3 1 B 107 ARG 2.2 1 B 107 ARG 2.2 1 B 143 GLU 2.2 1 A 146 TYR 2.2 1 A 69 VAL 2.2 1 A 103 THR 2.1 1 B 103 THR 2.1	1	В	66	ASN	2.5
1 B 133 PHE 2.5 1 B 98 ALA 2.4 1 B 108 LEU 2.3 1 A 112 LYS 2.3 1 A 112 LYS 2.3 1 B 129 VAL 2.3 1 A 141 SER 2.3 1 A 141 SER 2.3 1 B 107 ARG 2.2 1 B 143 GLU 2.2 1 A 146 TYR 2.2 1 A 69 VAL 2.2 1 A 103 THR 2.1 1 B 103 THR 2.1	1	А	37	TYR	2.5
1 B 98 ALA 2.4 1 B 108 LEU 2.3 1 A 112 LYS 2.3 1 B 129 VAL 2.3 1 B 129 VAL 2.3 1 A 141 SER 2.3 1 B 107 ARG 2.2 1 B 143 GLU 2.2 1 B 146 TYR 2.2 1 A 69 VAL 2.2 1 A 103 THR 2.1 1 B 103 THR 2.1	1	В	64	PHE	2.5
1 B 108 LEU 2.3 1 A 112 LYS 2.3 1 B 129 VAL 2.3 1 A 141 SER 2.3 1 A 141 SER 2.3 1 B 107 ARG 2.2 1 B 143 GLU 2.2 1 A 146 TYR 2.2 1 A 69 VAL 2.2 1 A 103 THR 2.1 1 B 103 THR 2.1	1	В	133	PHE	2.5
1 A 112 LYS 2.3 1 B 129 VAL 2.3 1 A 141 SER 2.3 1 A 141 SER 2.3 1 B 107 ARG 2.2 1 B 143 GLU 2.2 1 A 146 TYR 2.2 1 A 69 VAL 2.2 1 A 103 THR 2.1 1 B 103 THR 2.1	1	В	98	ALA	2.4
1 B 129 VAL 2.3 1 A 141 SER 2.3 1 B 107 ARG 2.2 1 B 143 GLU 2.2 1 A 146 TYR 2.2 1 A 69 VAL 2.2 1 A 103 THR 2.1 1 B 103 THR 2.1	1	В	108	LEU	2.3
1 A 141 SER 2.3 1 B 107 ARG 2.2 1 B 143 GLU 2.2 1 B 143 GLU 2.2 1 A 146 TYR 2.2 1 A 69 VAL 2.2 1 A 103 THR 2.1 1 B 103 THR 2.1	1	А	112	LYS	2.3
1 B 107 ARG 2.2 1 B 143 GLU 2.2 1 A 146 TYR 2.2 1 A 69 VAL 2.2 1 A 103 THR 2.1 1 B 103 THR 2.1	1	В	129	VAL	2.3
1 B 143 GLU 2.2 1 A 146 TYR 2.2 1 A 69 VAL 2.2 1 A 103 THR 2.1 1 B 103 THR 2.1	1	А	141	SER	2.3
1 A 146 TYR 2.2 1 A 69 VAL 2.2 1 A 103 THR 2.1 1 B 103 THR 2.1	1	В	107		2.2
1 A 69 VAL 2.2 1 A 103 THR 2.1 1 B 103 THR 2.1	1	В	143	GLU	2.2
1 A 103 THR 2.1 1 B 103 THR 2.1	1	А	146	TYR	2.2
1 B 103 THR 2.1	1	А	69	VAL	2.2
	1	А	103	THR	2.1
1 A 133 PHE 2.1	1	В	103	THR	2.1
	1	А	133	PHE	2.1

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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, 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	$\mathbf{B} ext{-factors}(\mathrm{\AA}^2)$	Q<0.9
2	CL	А	202	1/1	0.92	0.16	79,79,79,79	0
2	CL	В	201	1/1	0.99	0.05	42,42,42,42	0
2	CL	А	203	1/1	1.00	0.09	49,49,49,49	0
2	CL	А	201	1/1	1.00	0.10	37,37,37,37	0

6.5 Other polymers (i)

There are no such residues in this entry.

