



wwPDB X-ray Structure Validation Summary Report ⓘ

Dec 16, 2023 – 09:40 pm GMT

PDB ID : 4U0D
Title : Hexameric HIV-1 CA in complex with Nup153 peptide, P212121 crystal form
Authors : Price, A.J.; Jacques, D.A.; James, L.C.
Deposited on : 2014-07-11
Resolution : 3.00 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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 types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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 : 2.36
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) : 2.36

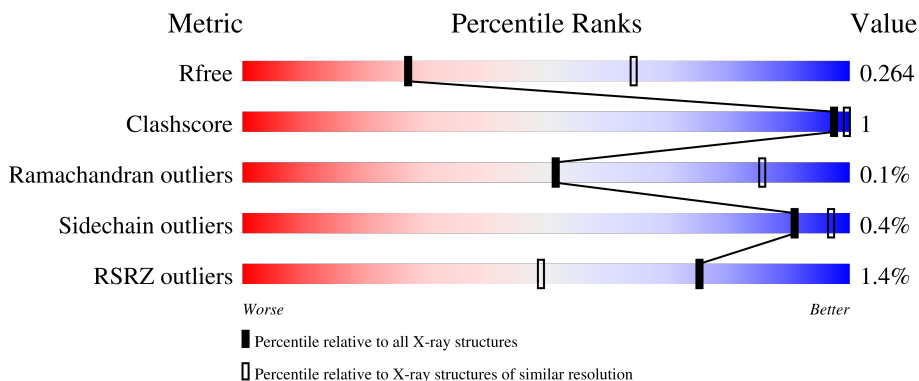
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.00 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	2092 (3.00-3.00)
Clashscore	141614	2416 (3.00-3.00)
Ramachandran outliers	138981	2333 (3.00-3.00)
Sidechain outliers	138945	2336 (3.00-3.00)
RSRZ outliers	127900	1990 (3.00-3.00)

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 $\leq 5\%$. 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	231	
1	B	231	
1	C	231	
1	D	231	
1	E	231	

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Mol	Chain	Length	Quality of chain
1	F	231	 88% 9%
1	G	231	 88% 8%
1	H	231	 86% 12%
1	I	231	 83% 15%
1	J	231	 87% 12%
1	K	231	 87% 12%
1	L	231	 81% 17%
2	M	17	 53% 47%
2	N	17	 53% 47%
2	O	17	 53% 47%
2	P	17	 53% 47%
2	Q	17	 53% 47%
2	R	17	 53% 47%

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 19269 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 Gag polyprotein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	216	Total 1663	C 1046	N 291	O 312	S 14	0	2	0
1	B	207	Total 1602	C 1007	N 279	O 302	S 14	0	3	0
1	C	211	Total 1619	C 1021	N 281	O 302	S 15	0	3	0
1	D	210	Total 1607	C 1015	N 277	O 301	S 14	0	2	0
1	E	192	Total 1484	C 941	N 252	O 278	S 13	0	3	0
1	F	211	Total 1631	C 1025	N 285	O 308	S 13	0	2	0
1	G	212	Total 1636	C 1029	N 285	O 308	S 14	0	3	0
1	H	204	Total 1580	C 998	N 276	O 292	S 14	0	2	0
1	I	196	Total 1500	C 950	N 255	O 282	S 13	0	2	0
1	J	204	Total 1565	C 992	N 268	O 291	S 14	0	2	0
1	K	204	Total 1548	C 983	N 260	O 291	S 14	0	2	0
1	L	191	Total 1455	C 923	N 246	O 274	S 12	0	2	0

There are 48 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	14	CYS	ALA	engineered mutation	UNP P12493
A	45	CYS	GLU	engineered mutation	UNP P12493
A	184	ALA	TRP	engineered mutation	UNP P12493
A	185	ALA	MET	engineered mutation	UNP P12493
B	14	CYS	ALA	engineered mutation	UNP P12493

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Chain	Residue	Modelled	Actual	Comment	Reference
B	45	CYS	GLU	engineered mutation	UNP P12493
B	184	ALA	TRP	engineered mutation	UNP P12493
B	185	ALA	MET	engineered mutation	UNP P12493
C	14	CYS	ALA	engineered mutation	UNP P12493
C	45	CYS	GLU	engineered mutation	UNP P12493
C	184	ALA	TRP	engineered mutation	UNP P12493
C	185	ALA	MET	engineered mutation	UNP P12493
D	14	CYS	ALA	engineered mutation	UNP P12493
D	45	CYS	GLU	engineered mutation	UNP P12493
D	184	ALA	TRP	engineered mutation	UNP P12493
D	185	ALA	MET	engineered mutation	UNP P12493
E	14	CYS	ALA	engineered mutation	UNP P12493
E	45	CYS	GLU	engineered mutation	UNP P12493
E	184	ALA	TRP	engineered mutation	UNP P12493
E	185	ALA	MET	engineered mutation	UNP P12493
F	14	CYS	ALA	engineered mutation	UNP P12493
F	45	CYS	GLU	engineered mutation	UNP P12493
F	184	ALA	TRP	engineered mutation	UNP P12493
F	185	ALA	MET	engineered mutation	UNP P12493
G	14	CYS	ALA	engineered mutation	UNP P12493
G	45	CYS	GLU	engineered mutation	UNP P12493
G	184	ALA	TRP	engineered mutation	UNP P12493
G	185	ALA	MET	engineered mutation	UNP P12493
H	14	CYS	ALA	engineered mutation	UNP P12493
H	45	CYS	GLU	engineered mutation	UNP P12493
H	184	ALA	TRP	engineered mutation	UNP P12493
H	185	ALA	MET	engineered mutation	UNP P12493
I	14	CYS	ALA	engineered mutation	UNP P12493
I	45	CYS	GLU	engineered mutation	UNP P12493
I	184	ALA	TRP	engineered mutation	UNP P12493
I	185	ALA	MET	engineered mutation	UNP P12493
J	14	CYS	ALA	engineered mutation	UNP P12493
J	45	CYS	GLU	engineered mutation	UNP P12493
J	184	ALA	TRP	engineered mutation	UNP P12493
J	185	ALA	MET	engineered mutation	UNP P12493
K	14	CYS	ALA	engineered mutation	UNP P12493
K	45	CYS	GLU	engineered mutation	UNP P12493
K	184	ALA	TRP	engineered mutation	UNP P12493
K	185	ALA	MET	engineered mutation	UNP P12493
L	14	CYS	ALA	engineered mutation	UNP P12493
L	45	CYS	GLU	engineered mutation	UNP P12493
L	184	ALA	TRP	engineered mutation	UNP P12493

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Chain	Residue	Modelled	Actual	Comment	Reference
L	185	ALA	MET	engineered mutation	UNP P12493

- Molecule 2 is a protein called Nuclear pore complex protein Nup153.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	M	9	Total	C	N	O	0	0	0
			63	42	9	12			
2	N	9	Total	C	N	O	0	0	0
			63	42	9	12			
2	O	9	Total	C	N	O	0	0	0
			63	42	9	12			
2	P	9	Total	C	N	O	0	0	0
			63	42	9	12			
2	Q	9	Total	C	N	O	0	0	0
			63	42	9	12			
2	R	9	Total	C	N	O	0	0	0
			63	42	9	12			


- Molecule 3 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	E	1	Total	Cl	0	0
			1	1		

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: Gag polyprotein

Chain A:  2% 89% 6%




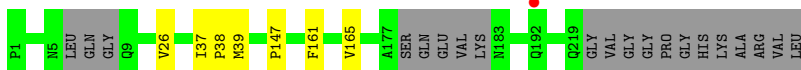
- Molecule 1: Gag polyprotein

Chain B:  87% 10%




- Molecule 1: Gag polyprotein

Chain C:  88% 9%




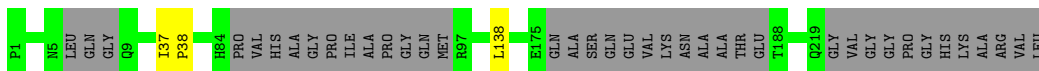
- Molecule 1: Gag polyprotein

Chain D:  88% 9%




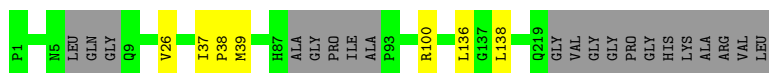
- Molecule 1: Gag polyprotein

Chain E:  82% 17%




- Molecule 1: Gag polyprotein

Chain F:  88% 9%




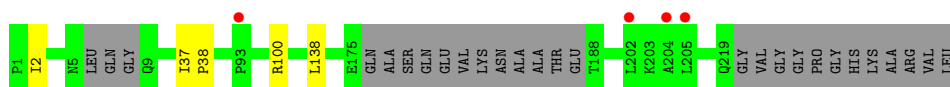
• Molecule 1: Gag polyprotein

Chain G:  88% 8%




• Molecule 1: Gag polyprotein

Chain H:  86% 12% 2%




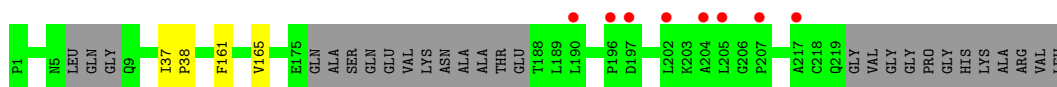
• Molecule 1: Gag polyprotein

Chain I:  83% 15% 2%




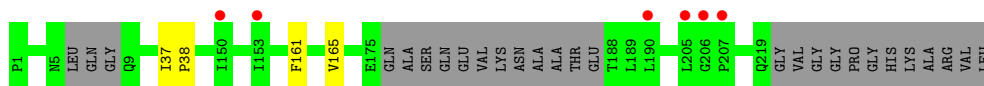
• Molecule 1: Gag polyprotein

Chain J:  87% 12% 3%




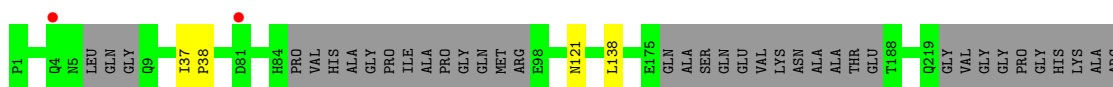
• Molecule 1: Gag polyprotein

Chain K:  87% 12% 3%



• Molecule 1: Gag polyprotein

Chain L:  81% 17% 2%



VAL
LEU

- Molecule 2: Nuclear pore complex protein Nup153

Chain M:  53% 47%

THR	ASN	ASN	ASN	S1410	G1418	ALA	ASN	SER	SER	SER	THR

- Molecule 2: Nuclear pore complex protein Nup153

Chain N:  53% 47%

THR	ASN	ASN	ASN	S1410	G1418	ALA	ASN	SER	SER	SER	THR

- Molecule 2: Nuclear pore complex protein Nup153

Chain O:  53% 47%

THR	ASN	ASN	ASN	S1410	G1418	ALA	ASN	SER	SER	SER	THR

- Molecule 2: Nuclear pore complex protein Nup153

Chain P:  12% 53% 47%

THR	ASN	ASN	ASN	S1410	T1416	F1417	G1418	ALA	ASN	SER	SER	THR

- Molecule 2: Nuclear pore complex protein Nup153

Chain Q:  12% 53% 47%

THR	ASN	ASN	ASN	S1410	T1416	F1417	G1418	ALA	ASN	SER	SER	THR

- Molecule 2: Nuclear pore complex protein Nup153

Chain R:  12% 53% 47%

THR	ASN	ASN	ASN	S1410	P1411	S1412	G1418	ALA	ASN	SER	SER	THR

4 Data and refinement statistics i

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	135.38Å 138.06Å 211.85Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	115.67 – 3.00 46.07 – 3.00	Depositor EDS
% Data completeness (in resolution range)	96.6 (115.67-3.00) 91.2 (46.07-3.00)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.70 (at 3.01Å)	Xtrriage
Refinement program	REFMAC 5.8.0073	Depositor
R, R_{free}	0.246 , 0.267 0.244 , 0.264	Depositor DCC
R_{free} test set	3884 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å ²)	62.8	Xtrriage
Anisotropy	0.344	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.26 , 11.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	0.136 for k,h,-l	Xtrriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	19269	wwPDB-VP
Average B, all atoms (Å ²)	78.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.91% 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, 0.333 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: 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	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.25	0/1699	0.40	0/2312
1	B	0.25	0/1637	0.39	0/2225
1	C	0.25	0/1657	0.39	0/2256
1	D	0.25	0/1642	0.39	0/2235
1	E	0.25	0/1516	0.39	0/2059
1	F	0.25	0/1665	0.40	0/2263
1	G	0.25	0/1672	0.40	0/2273
1	H	0.25	0/1615	0.40	0/2194
1	I	0.25	0/1531	0.38	0/2082
1	J	0.25	0/1600	0.39	0/2177
1	K	0.25	0/1582	0.38	0/2155
1	L	0.25	0/1484	0.38	0/2019
2	M	0.38	0/65	0.38	0/87
2	N	0.37	0/65	0.36	0/87
2	O	0.37	0/65	0.35	0/87
2	P	0.37	0/65	0.34	0/87
2	Q	0.37	0/65	0.34	0/87
2	R	0.37	0/65	0.32	0/87
All	All	0.25	0/19690	0.39	0/26772

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

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	1663	0	1639	5	0
1	B	1602	0	1572	2	0
1	C	1619	0	1583	3	0
1	D	1607	0	1580	4	0
1	E	1484	0	1461	2	0
1	F	1631	0	1599	3	0
1	G	1636	0	1609	3	0
1	H	1580	0	1560	2	0
1	I	1500	0	1451	2	0
1	J	1565	0	1534	2	0
1	K	1548	0	1507	2	0
1	L	1455	0	1417	3	0
2	M	63	0	56	0	0
2	N	63	0	56	0	0
2	O	63	0	56	0	0
2	P	63	0	56	0	0
2	Q	63	0	56	0	0
2	R	63	0	56	0	0
3	E	1	0	0	0	0
All	All	19269	0	18848	32	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 1.

The worst 5 of 32 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:92:ALA:HB3	1:A:93:PRO:HD3	1.79	0.65
1:A:93:PRO:N	1:A:94:GLY:HA2	2.24	0.53
1:A:37:ILE:HB	1:A:38:PRO:HD3	1.95	0.48
1:C:37:ILE:HB	1:C:38:PRO:HD3	1.95	0.47
1:F:37:ILE:HB	1:F:38:PRO:HD3	1.96	0.47

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	212/231 (92%)	206 (97%)	6 (3%)	0	100	100
1	B	202/231 (87%)	195 (96%)	6 (3%)	1 (0%)	29	68
1	C	206/231 (89%)	199 (97%)	6 (3%)	1 (0%)	29	68
1	D	204/231 (88%)	199 (98%)	5 (2%)	0	100	100
1	E	185/231 (80%)	178 (96%)	7 (4%)	0	100	100
1	F	205/231 (89%)	199 (97%)	6 (3%)	0	100	100
1	G	207/231 (90%)	200 (97%)	6 (3%)	1 (0%)	29	68
1	H	198/231 (86%)	187 (94%)	11 (6%)	0	100	100
1	I	188/231 (81%)	182 (97%)	6 (3%)	0	100	100
1	J	198/231 (86%)	190 (96%)	8 (4%)	0	100	100
1	K	198/231 (86%)	192 (97%)	6 (3%)	0	100	100
1	L	183/231 (79%)	176 (96%)	7 (4%)	0	100	100
2	M	7/17 (41%)	7 (100%)	0	0	100	100
2	N	7/17 (41%)	7 (100%)	0	0	100	100
2	O	7/17 (41%)	5 (71%)	2 (29%)	0	100	100
2	P	7/17 (41%)	6 (86%)	1 (14%)	0	100	100
2	Q	7/17 (41%)	6 (86%)	1 (14%)	0	100	100
2	R	7/17 (41%)	6 (86%)	1 (14%)	0	100	100
All	All	2428/2874 (84%)	2340 (96%)	85 (4%)	3 (0%)	51	85

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	G	93	PRO
1	B	147	PRO
1	C	147	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	180/193 (93%)	178 (99%)	2 (1%)	73	90
1	B	174/193 (90%)	174 (100%)	0	100	100
1	C	173/193 (90%)	173 (100%)	0	100	100
1	D	173/193 (90%)	172 (99%)	1 (1%)	86	95
1	E	161/193 (83%)	161 (100%)	0	100	100
1	F	177/193 (92%)	175 (99%)	2 (1%)	73	90
1	G	177/193 (92%)	175 (99%)	2 (1%)	73	90
1	H	171/193 (89%)	169 (99%)	2 (1%)	71	90
1	I	160/193 (83%)	160 (100%)	0	100	100
1	J	168/193 (87%)	168 (100%)	0	100	100
1	K	165/193 (86%)	165 (100%)	0	100	100
1	L	156/193 (81%)	156 (100%)	0	100	100
2	M	7/14 (50%)	7 (100%)	0	100	100
2	N	7/14 (50%)	7 (100%)	0	100	100
2	O	7/14 (50%)	7 (100%)	0	100	100
2	P	7/14 (50%)	7 (100%)	0	100	100
2	Q	7/14 (50%)	7 (100%)	0	100	100
2	R	7/14 (50%)	7 (100%)	0	100	100
All	All	2077/2400 (86%)	2068 (100%)	9 (0%)	91	97

5 of 9 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	H	2	ILE
1	H	100	ARG
1	F	100	ARG
1	F	136	LEU
1	G	37	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 7 such sidechains are listed below:

Mol	Chain	Res	Type
1	F	95	GLN
1	G	95	GLN
1	L	112	GLN
1	K	112	GLN
1	D	176	GLN

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 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

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, 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	216/231 (93%)	-0.32	4 (1%) 66 37	36, 64, 140, 159	0
1	B	207/231 (89%)	-0.32	0 100 100	38, 64, 109, 131	0
1	C	211/231 (91%)	-0.32	1 (0%) 91 75	42, 64, 128, 143	0
1	D	210/231 (90%)	-0.34	1 (0%) 91 75	38, 66, 138, 159	0
1	E	192/231 (83%)	-0.41	0 100 100	40, 66, 106, 126	0
1	F	211/231 (91%)	-0.46	0 100 100	34, 58, 99, 139	0
1	G	212/231 (91%)	-0.45	0 100 100	35, 56, 101, 127	0
1	H	204/231 (88%)	-0.22	4 (1%) 65 36	36, 66, 154, 186	0
1	I	196/231 (84%)	-0.20	2 (1%) 82 59	50, 81, 146, 160	0
1	J	204/231 (88%)	-0.08	8 (3%) 39 15	53, 88, 182, 202	0
1	K	204/231 (88%)	-0.11	6 (2%) 51 23	58, 98, 165, 184	0
1	L	191/231 (82%)	-0.27	2 (1%) 82 59	49, 77, 127, 156	0
2	M	9/17 (52%)	-0.59	0 100 100	40, 47, 59, 62	0
2	N	9/17 (52%)	-0.36	0 100 100	42, 45, 67, 70	0
2	O	9/17 (52%)	0.87	0 100 100	78, 98, 111, 114	0
2	P	9/17 (52%)	1.10	2 (22%) 0 0	72, 93, 122, 125	0
2	Q	9/17 (52%)	1.11	2 (22%) 0 0	93, 121, 140, 141	0
2	R	9/17 (52%)	1.82	2 (22%) 0 0	94, 111, 157, 158	0
All	All	2512/2874 (87%)	-0.27	34 (1%) 75 49	34, 70, 146, 202	0

The worst 5 of 34 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	K	207	PRO	7.1
2	R	1410	SER	4.5
1	I	207	PRO	4.4

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Mol	Chain	Res	Type	RSRZ
1	K	153	ILE	4.3
2	R	1412	SER	4.2

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, 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	B-factors(Å ²)	Q < 0.9
3	CL	E	301	1/1	0.88	0.13	58,58,58,58	0

6.5 Other polymers [i](#)

There are no such residues in this entry.