



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 03:35 PM UTC

PDB ID : 3MLY / pdb_00003mly
Title : Crystal structure of anti-HIV-1 V3 Fab 3074 in complex with a UR29 V3 peptide
Authors : Kong, X.-P.
Deposited on : 2010-04-18
Resolution : 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 ⓘ 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 : 4-5-2 with Phenix2.0
Xtrriage (Phenix) : 2.0
EDS : 3.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4 : 9.0.010 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

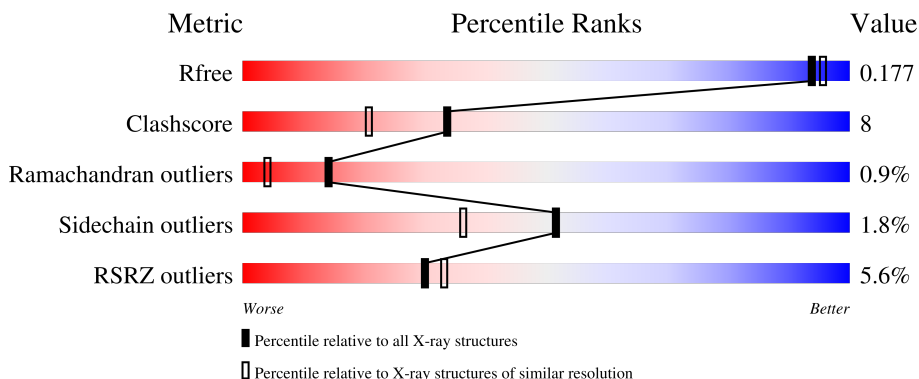
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 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	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	5551 (1.70-1.70)
Clashscore	190562	5924 (1.70-1.70)
Ramachandran outliers	187476	5846 (1.70-1.70)
Sidechain outliers	187428	5846 (1.70-1.70)
RSRZ outliers	180081	5554 (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 $\leq 5\%$. 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	L	214	
1	M	214	
2	H	230	
2	I	230	
3	P	23	

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Mol	Chain	Length	Quality of chain
3	Q	23	 <p>A horizontal bar chart showing the quality distribution of chain Q. The bar is divided into four segments: 13% red, 30% green, 22% yellow, and 48% grey. The percentages are labeled below each segment.</p>

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 7711 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 Human monoclonal anti-HIV-1 gp120 V3 antibody 3074 Fab light chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	L	214	1592	991	271	324	6	0	0	0
1	M	214	1592	991	271	324	6	0	0	0

- Molecule 2 is a protein called Human monoclonal anti-HIV-1 gp120 V3 antibody 3074 Fab heavy chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	H	230	1722	1086	283	346	7	0	0	0
2	I	230	1722	1086	283	346	7	0	0	0

- Molecule 3 is a protein called HIV-1 gp120 third variable region (V3) crown.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
3	P	12	102	67	20	15	0	0	0
3	Q	12	102	67	20	15	0	0	0

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	O		
4	L	199	199	199	0	0
4	H	261	261	261	0	0
4	P	14	14	14	0	0

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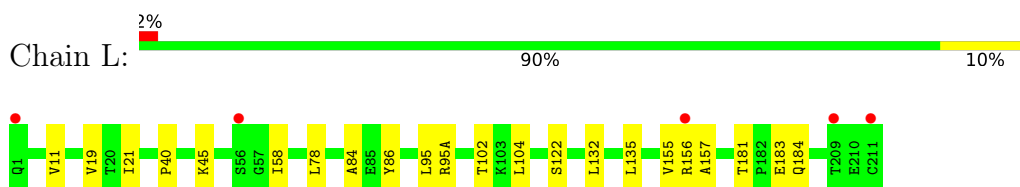
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	M	191	Total 191	O 191	0	0
4	I	202	Total 202	O 202	0	0
4	Q	12	Total 12	O 12	0	0

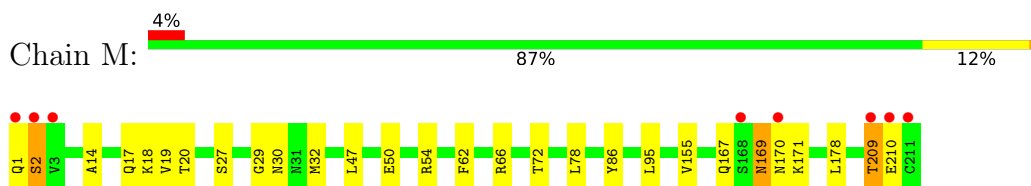
3 Residue-property plots [i](#)

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.

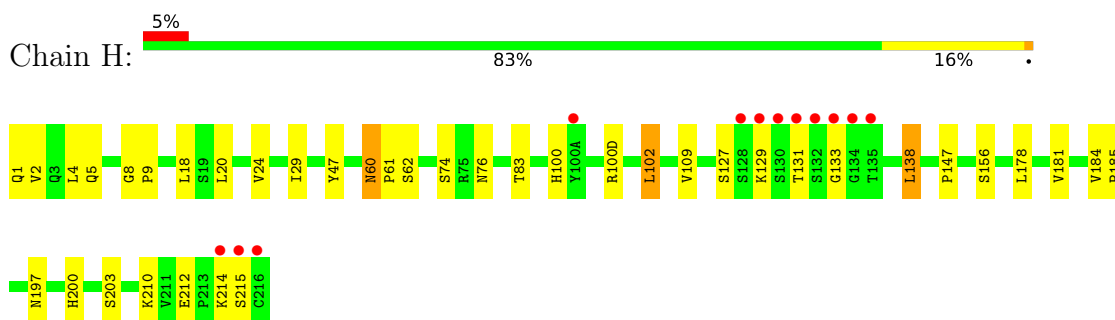
- Molecule 1: Human monoclonal anti-HIV-1 gp120 V3 antibody 3074 Fab light chain



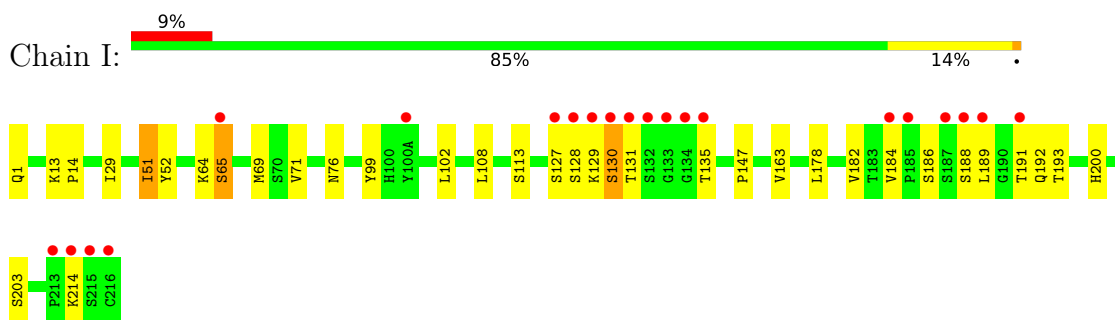
- Molecule 1: Human monoclonal anti-HIV-1 gp120 V3 antibody 3074 Fab light chain



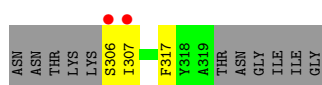
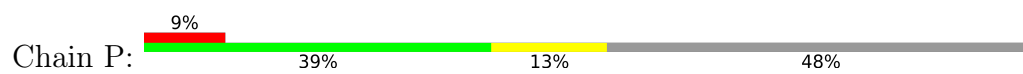
- Molecule 2: Human monoclonal anti-HIV-1 gp120 V3 antibody 3074 Fab heavy chain



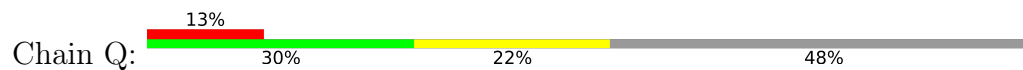
- Molecule 2: Human monoclonal anti-HIV-1 gp120 V3 antibody 3074 Fab heavy chain



- Molecule 3: HIV-1 gp120 third variable region (V3) crown



- Molecule 3: HIV-1 gp120 third variable region (V3) crown



4 Data and refinement statistics i

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	59.95Å 128.79Å 60.10Å 90.00° 92.54° 90.00°	Depositor
Resolution (Å)	30.51 – 1.70 30.51 – 1.70	Depositor EDS
% Data completeness (in resolution range)	96.8 (30.51-1.70) 95.0 (30.51-1.70)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.66 (at 1.70Å)	Xtriage
Refinement program	PHENIX 1.6.1_357, CNS	Depositor
R, R_{free}	0.181 , 0.215 0.179 , 0.177	Depositor DCC
R_{free} test set	9678 reflections (10.00%)	wwPDB-VP
Wilson B-factor (Å ²)	14.3	Xtriage
Anisotropy	0.109	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 34.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.005 for l,k,-h 0.033 for h,-k,-l 0.020 for l,-k,h	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	7711	wwPDB-VP
Average B, all atoms (Å ²)	18.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.06% 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 [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	L	0.40	0/1630	0.72	0/2224
1	M	0.40	0/1630	0.72	0/2224
2	H	0.41	0/1767	0.75	0/2407
2	I	0.40	0/1767	0.72	0/2407
3	P	0.32	0/104	0.81	0/138
3	Q	0.29	0/104	0.77	0/138
All	All	0.40	0/7002	0.73	0/9538

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	L	1592	0	1552	24	0
1	M	1592	0	1552	19	0
2	H	1722	0	1663	35	0
2	I	1722	0	1663	32	0
3	P	102	0	108	2	0
3	Q	102	0	108	4	0
4	H	261	0	0	5	0
4	I	202	0	0	0	0
4	L	199	0	0	8	0
4	M	191	0	0	3	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	P	14	0	0	0	0
4	Q	12	0	0	0	0
All	All	7711	0	6646	104	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 (104) 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:L:11:VAL:HB	4:L:368:HOH:O	1.68	0.92
1:L:86:TYR:HE1	4:L:313:HOH:O	1.53	0.89
1:L:104:LEU:HB3	4:L:313:HOH:O	1.77	0.84
2:H:156:SER:H	2:H:197:ASN:HD21	1.22	0.84
1:M:1:GLN:HA	4:M:232:HOH:O	1.81	0.81
2:I:51:ILE:HD13	2:I:52:TYR:O	1.82	0.79
2:I:13:LYS:NZ	2:I:113:SER:HA	2.01	0.74
1:L:181:THR:H	1:L:184:GLN:HE21	1.37	0.72
1:M:2:SER:O	4:M:250:HOH:O	2.08	0.70
2:I:14:PRO:HD2	2:I:113:SER:HB3	1.74	0.68
1:L:86:TYR:HB2	4:L:670:HOH:O	1.94	0.68
2:I:147:PRO:O	2:I:200:HIS:HE1	1.77	0.67
1:L:135:LEU:CD1	2:H:181:VAL:HG21	2.24	0.67
2:I:200:HIS:HD2	2:I:203:SER:OG	1.79	0.66
4:H:822:HOH:O	3:P:306:SER:HB2	1.95	0.64
1:L:84:ALA:N	4:L:313:HOH:O	2.30	0.64
2:I:131:THR:HG23	2:I:131:THR:O	1.98	0.64
3:Q:307:ILE:HD13	3:Q:317:PHE:CE1	2.33	0.63
2:H:5:GLN:NE2	2:I:108:LEU:H	1.97	0.62
3:Q:312:ARG:H	3:Q:315:GLN:NE2	1.98	0.62
2:H:2:VAL:HB	2:H:102:LEU:HD21	1.81	0.62
2:I:1:GLN:HA	2:I:1:GLN:OE1	2.00	0.61
1:L:95(A):ARG:HH11	2:H:60:ASN:HD21	1.48	0.61
2:I:186:SER:O	2:I:189:LEU:HD23	2.00	0.61
2:H:147:PRO:O	2:H:200:HIS:HE1	1.83	0.61
1:L:21:ILE:HD13	4:L:670:HOH:O	1.99	0.61
2:I:188:SER:HA	2:I:191:THR:HG22	1.84	0.60
2:H:1:GLN:HB3	4:H:371:HOH:O	2.01	0.60
2:H:156:SER:H	2:H:197:ASN:ND2	1.97	0.59
1:L:45:LYS:HE2	1:L:58:ILE:HD11	1.83	0.59
2:H:127:SER:O	2:H:129:LYS:HE2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:200:HIS:HD2	2:H:203:SER:OG	1.86	0.59
1:M:169:ASN:O	1:M:170:ASN:HB2	2.03	0.58
2:I:51:ILE:CD1	2:I:52:TYR:O	2.52	0.58
2:I:99:TYR:O	3:Q:306:SER:HB2	2.04	0.57
1:M:20:THR:HG23	1:M:72:THR:CG2	2.34	0.56
1:M:169:ASN:C	1:M:169:ASN:HD22	2.12	0.56
2:H:60:ASN:HD22	2:H:62:SER:H	1.53	0.56
2:H:29:ILE:H	2:H:76:ASN:HD22	1.53	0.56
2:H:131:THR:C	2:H:133:GLY:H	2.15	0.55
1:L:19:VAL:HG13	1:L:78:LEU:HD11	1.89	0.55
1:M:30:ASN:ND2	4:M:583:HOH:O	2.39	0.55
2:I:13:LYS:HZ1	2:I:113:SER:HA	1.72	0.54
1:L:135:LEU:CD1	2:H:181:VAL:CG2	2.85	0.54
1:L:135:LEU:HD12	2:H:181:VAL:HG21	1.89	0.53
2:I:192:GLN:HG2	2:I:193:THR:N	2.24	0.53
1:M:14:ALA:H	1:M:17:GLN:NE2	2.06	0.52
1:M:167:GLN:HE21	1:M:169:ASN:HD21	1.56	0.52
2:H:60:ASN:HD22	2:H:60:ASN:C	2.18	0.52
3:P:307:ILE:HD11	3:P:317:PHE:CE1	2.45	0.52
2:H:60:ASN:ND2	2:H:62:SER:H	2.08	0.51
2:I:64:LYS:O	2:I:65:SER:CB	2.59	0.51
1:M:169:ASN:ND2	1:M:171:LYS:H	2.10	0.50
1:L:45:LYS:HE2	1:L:58:ILE:CD1	2.42	0.50
1:L:135:LEU:HD13	2:H:181:VAL:CG2	2.42	0.50
2:H:100:HIS:HB2	2:H:100(D):ARG:HB2	1.93	0.50
2:H:9:PRO:HG3	4:H:611:HOH:O	2.11	0.49
1:L:156:ARG:N	1:L:156:ARG:HD3	2.26	0.49
2:H:178:LEU:C	2:H:178:LEU:HD12	2.38	0.49
2:H:4:LEU:HD22	2:H:24:VAL:HG22	1.95	0.49
2:H:18:LEU:HD12	2:H:109:VAL:HG11	1.95	0.49
2:H:5:GLN:HE21	2:I:108:LEU:H	1.58	0.48
2:I:51:ILE:HD13	2:I:51:ILE:C	2.39	0.48
2:H:184:VAL:HB	2:H:185:PRO:HD2	1.96	0.48
1:M:169:ASN:C	1:M:169:ASN:ND2	2.72	0.47
2:I:51:ILE:HD13	2:I:52:TYR:N	2.30	0.47
1:M:209:THR:O	1:M:210:GLU:HB3	2.15	0.47
2:H:60:ASN:HD22	2:H:61:PRO:N	2.12	0.47
2:I:13:LYS:HZ2	2:I:113:SER:HA	1.78	0.47
2:I:51:ILE:HD12	2:I:71:VAL:HB	1.97	0.47
1:L:122:SER:H	2:H:214:LYS:HZ3	1.63	0.47
2:H:138:LEU:HD12	2:H:138:LEU:N	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:83:THR:HB	4:H:597:HOH:O	2.15	0.46
1:L:40:PRO:HD2	4:L:248:HOH:O	2.15	0.46
2:I:99:TYR:HB3	3:Q:307:ILE:HG23	1.98	0.46
1:L:156:ARG:HD3	1:L:156:ARG:H	1.80	0.46
2:H:18:LEU:CD1	2:H:109:VAL:HG11	2.45	0.46
2:I:182:VAL:HG12	2:I:184:VAL:HG13	1.98	0.46
1:L:132:LEU:HD12	1:L:132:LEU:N	2.31	0.46
1:M:167:GLN:HE21	1:M:169:ASN:ND2	2.14	0.46
2:I:200:HIS:CD2	2:I:203:SER:OG	2.65	0.46
2:I:51:ILE:HB	2:I:69:MET:HE2	1.98	0.45
1:L:102:THR:HB	4:L:670:HOH:O	2.16	0.45
2:H:8:GLY:HA3	2:H:20:LEU:CD2	2.46	0.45
2:I:128:SER:C	2:I:130:SER:H	2.25	0.44
2:I:130:SER:O	2:I:131:THR:HG22	2.18	0.44
1:L:135:LEU:HD13	2:H:181:VAL:HG21	1.96	0.44
1:M:14:ALA:H	1:M:17:GLN:HE21	1.65	0.43
1:M:27:SER:HA	1:M:29:GLY:HA3	2.01	0.43
1:M:19:VAL:HG13	1:M:78:LEU:HD11	1.99	0.43
2:I:29:ILE:H	2:I:76:ASN:ND2	2.16	0.43
2:I:178:LEU:C	2:I:178:LEU:HD12	2.44	0.43
2:I:192:GLN:CG	2:I:193:THR:N	2.81	0.42
1:M:54:ARG:HD3	1:M:62:PHE:O	2.18	0.42
1:L:156:ARG:HG2	1:L:157:ALA:N	2.35	0.41
2:H:74:SER:HB3	4:H:548:HOH:O	2.19	0.41
1:M:18:LYS:HB3	1:M:18:LYS:HE2	1.84	0.41
1:M:32:MET:HB3	1:M:50:GLU:HA	2.02	0.41
2:I:163:VAL:HG22	2:I:182:VAL:HG22	2.03	0.41
1:L:122:SER:H	2:H:214:LYS:NZ	2.19	0.41
2:H:210:LYS:HE2	2:H:212:GLU:OE1	2.20	0.41
2:I:127:SER:O	2:I:128:SER:C	2.64	0.41
2:I:131:THR:O	2:I:131:THR:CG2	2.68	0.41
1:M:47:LEU:HD11	1:M:86:TYR:HE2	1.86	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	L	212/214 (99%)	205 (97%)	6 (3%)	1 (0%)	24	12
1	M	212/214 (99%)	199 (94%)	10 (5%)	3 (1%)	9	2
2	H	228/230 (99%)	217 (95%)	10 (4%)	1 (0%)	30	16
2	I	228/230 (99%)	219 (96%)	6 (3%)	3 (1%)	9	2
3	P	10/23 (44%)	10 (100%)	0	0	100	100
3	Q	10/23 (44%)	10 (100%)	0	0	100	100
All	All	900/934 (96%)	860 (96%)	32 (4%)	8 (1%)	14	4

All (8) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	M	95	LEU
2	H	215	SER
1	M	2	SER
2	I	130	SER
1	L	95	LEU
1	M	209	THR
2	I	65	SER
2	I	129	LYS

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	L	180/180 (100%)	178 (99%)	2 (1%)	65	54
1	M	180/180 (100%)	176 (98%)	4 (2%)	45	29
2	H	197/197 (100%)	193 (98%)	4 (2%)	48	32
2	I	197/197 (100%)	193 (98%)	4 (2%)	48	32
3	P	10/19 (53%)	10 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	Q	10/19 (53%)	10 (100%)	0	100	100
All	All	774/792 (98%)	760 (98%)	14 (2%)	51	36

All (14) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	L	155	VAL
1	L	183	GLU
2	H	47	TYR
2	H	60	ASN
2	H	102	LEU
2	H	138	LEU
1	M	66	ARG
1	M	155	VAL
1	M	169	ASN
1	M	178	LEU
2	I	51	ILE
2	I	102	LEU
2	I	135	THR
2	I	214	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (23) such sidechains are listed below:

Mol	Chain	Res	Type
1	L	38	GLN
1	L	108	GLN
1	L	126	GLN
1	L	128	ASN
1	L	184	GLN
2	H	5	GLN
2	H	39	GLN
2	H	60	ASN
2	H	76	ASN
2	H	192	GLN
2	H	197	ASN
2	H	200	HIS
2	H	204	ASN
1	M	17	GLN
1	M	30	ASN
1	M	169	ASN
2	I	3	GLN

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Mol	Chain	Res	Type
2	I	76	ASN
2	I	77	GLN
2	I	105	GLN
2	I	192	GLN
2	I	200	HIS
3	Q	315	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 oligosaccharides 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, 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	L	214/214 (100%)	-0.12	5 (2%) 61 65	9, 15, 26, 77	0
1	M	214/214 (100%)	0.07	8 (3%) 45 49	8, 15, 31, 77	0
2	H	230/230 (100%)	0.04	12 (5%) 33 36	8, 13, 35, 78	0
2	I	230/230 (100%)	0.19	21 (9%) 15 15	8, 15, 48, 75	0
3	P	12/23 (52%)	0.38	2 (16%) 4 4	14, 20, 32, 42	0
3	Q	12/23 (52%)	1.11	3 (25%) 2 1	19, 27, 35, 41	0
All	All	912/934 (97%)	0.07	51 (5%) 30 33	8, 15, 36, 78	0

All (51) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	I	131	THR	9.4
2	H	131	THR	8.0
2	H	132	SER	6.8
1	M	2	SER	6.2
1	L	1	GLN	5.8
2	I	130	SER	5.7
2	I	128	SER	5.4
2	H	216	CYS	5.2
1	M	211	CYS	5.2
2	H	130	SER	5.1
2	I	133	GLY	5.1
2	I	132	SER	5.0
1	M	209	THR	4.9
1	M	210	GLU	4.5
2	H	133	GLY	4.4
2	I	134	GLY	4.4
2	I	216	CYS	4.1
2	I	185	PRO	3.8
1	M	1	GLN	3.8

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Mol	Chain	Res	Type	RSRZ
2	I	129	LYS	3.7
1	L	156	ARG	3.6
2	H	215	SER	3.6
2	I	215	SER	3.6
1	L	211	CYS	3.5
2	H	129	LYS	3.2
1	M	3	VAL	3.2
1	M	170	ASN	3.1
2	I	135	THR	3.1
3	Q	319	ALA	3.0
2	I	127	SER	2.9
2	H	134	GLY	2.8
2	H	214	LYS	2.8
2	I	188	SER	2.8
2	H	100(A)	TYR	2.7
3	Q	306	SER	2.7
2	I	191	THR	2.7
3	P	307	ILE	2.6
2	I	187	SER	2.6
1	L	209	THR	2.6
2	I	189	LEU	2.5
1	M	168	SER	2.5
2	I	184	VAL	2.4
3	Q	307	ILE	2.3
2	H	128	SER	2.3
2	H	135	THR	2.2
1	L	56	SER	2.2
2	I	100(A)	TYR	2.2
2	I	213	PRO	2.2
2	I	65	SER	2.1
2	I	214	LYS	2.1
3	P	306	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 oligosaccharides in this entry.

6.4 Ligands

There are no ligands in this entry.

6.5 Other polymers

There are no such residues in this entry.