Full wwPDB X-ray Structure Validation Report (i)

Oct 12, 2021 – 03:49 PM EDT

PDB ID	:	1YF1
Title	:	Structural and biochemical analysis of the link between enzymatic activity and oligomerization in AhpC, a bacterial peroxiredoxin.
Authors	:	Parsonage, D.; Youngblood, D.S.; Sarma, G.N.; Wood, Z.A.; Karplus, P.A.; Poole, L.B.
Deposited on	:	2004-12-29
Resolution	:	2.60 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 following versions of software and data (see references (1)) were used in the production of this report:

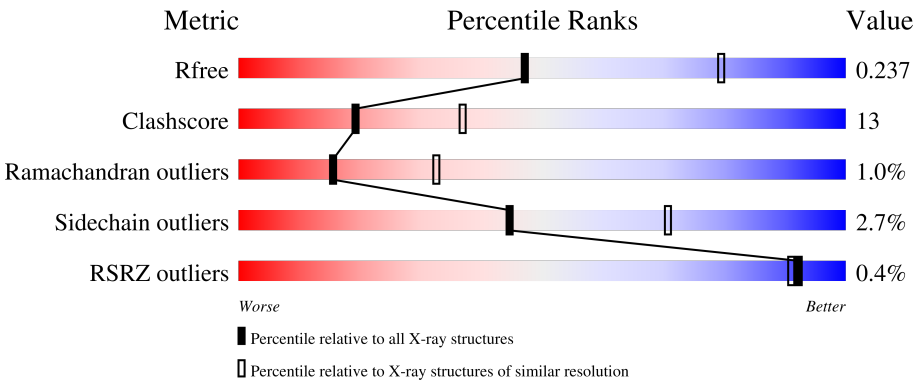
MolProbity	:	4.02b-467
Xtriage (Phenix)	:	1.13
EDS	:	2.23.2
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.23.2

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 2.60 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	3163 (2.60-2.60)
Clashscore	141614	3518 (2.60-2.60)
Ramachandran outliers	138981	3455 (2.60-2.60)
Sidechain outliers	138945	3455 (2.60-2.60)
RSRZ outliers	127900	3104 (2.60-2.60)

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	A	186	.% 68% 20% • 11%
1	B	186	65% 23% • 11%
1	C	186	64% 23% • 12%
1	D	186	.% 55% 33% • 11%
1	E	186	.% 63% 23% • • 11%

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Mol	Chain	Length	Quality of chain
1	F	186	% 68% 20% •• 11%
1	G	186	% 71% 16% • 11%
1	H	186	64% 23% • 12%
1	I	186	% 72% 17% • 11%
1	J	186	64% 23% • 11%

2 Entry composition (i)

There are 3 unique types of molecules in this entry. The entry contains 13819 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 Alkyl hydroperoxide reductase subunit C.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	166	1306	832	217	253	4	0	0	0
			Total	C	N	O	S			
1	B	165	1299	827	216	252	4	0	0	0
			Total	C	N	O	S			
1	C	163	1286	819	214	250	3	0	0	0
			Total	C	N	O	S			
1	D	166	1306	832	217	253	4	0	0	0
			Total	C	N	O	S			
1	E	165	1299	827	216	252	4	0	0	0
			Total	C	N	O	S			
1	F	166	1306	832	217	253	4	0	0	0
			Total	C	N	O	S			
1	G	165	1299	827	216	252	4	0	0	0
			Total	C	N	O	S			
1	H	163	1286	819	214	250	3	0	0	0
			Total	C	N	O	S			
1	I	166	1306	832	217	253	4	0	0	0
			Total	C	N	O	S			
1	J	165	1299	827	216	252	4	0	0	0

There are 10 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	77	VAL	THR	engineered mutation	UNP P0A251
B	77	VAL	THR	engineered mutation	UNP P0A251
C	77	VAL	THR	engineered mutation	UNP P0A251
D	77	VAL	THR	engineered mutation	UNP P0A251
E	77	VAL	THR	engineered mutation	UNP P0A251
F	77	VAL	THR	engineered mutation	UNP P0A251
G	77	VAL	THR	engineered mutation	UNP P0A251
H	77	VAL	THR	engineered mutation	UNP P0A251
I	77	VAL	THR	engineered mutation	UNP P0A251

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Chain	Residue	Modelled	Actual	Comment	Reference
J	77	VAL	THR	engineered mutation	UNP P0A251

- Molecule 2 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	Na		
2	A	1	1	1	0	0

- Molecule 3 is water.

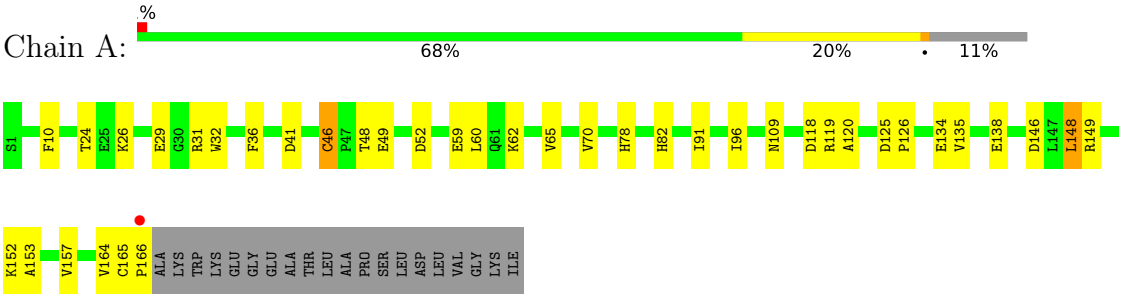
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	O		
3	A	112	112	112	0	0
3	B	95	95	95	0	0
3	C	94	94	94	0	0
3	D	67	67	67	0	0
3	E	32	32	32	0	0
3	F	100	100	100	0	0
3	G	101	101	101	0	0
3	H	96	96	96	0	0
3	I	89	89	89	0	0
3	J	40	40	40	0	0

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.

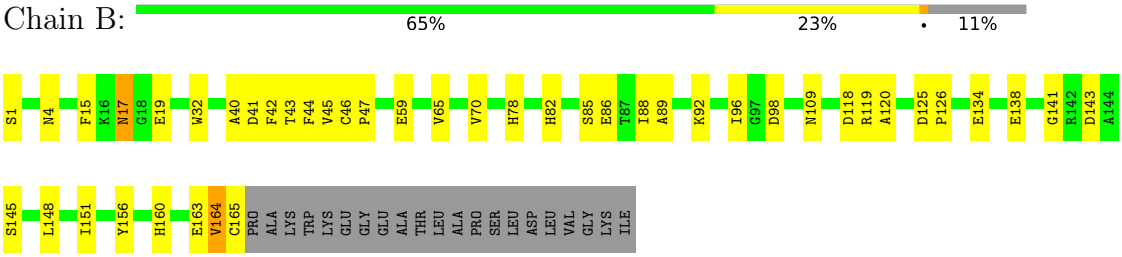
• Molecule 1: Alkyl hydroperoxide reductase subunit C

Chain A:



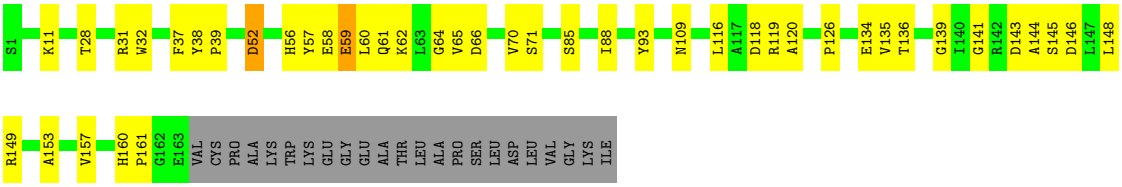
• Molecule 1: Alkyl hydroperoxide reductase subunit C

Chain B:



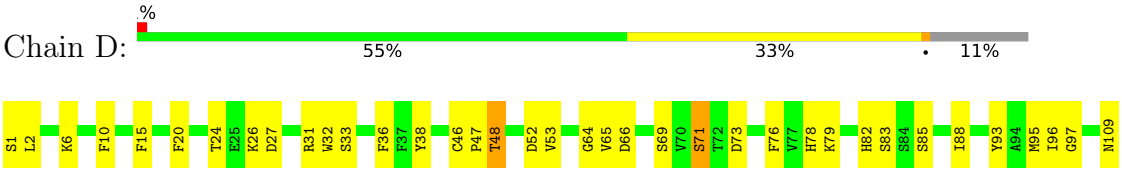
• Molecule 1: Alkyl hydroperoxide reductase subunit C

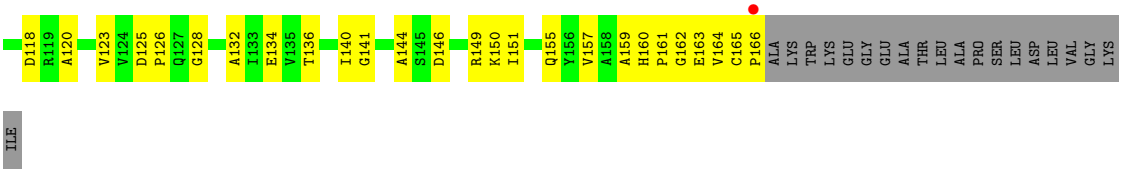
Chain C:



• Molecule 1: Alkyl hydroperoxide reductase subunit C

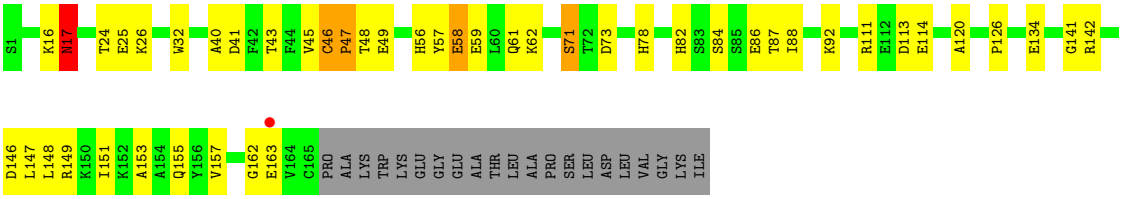
Chain D:





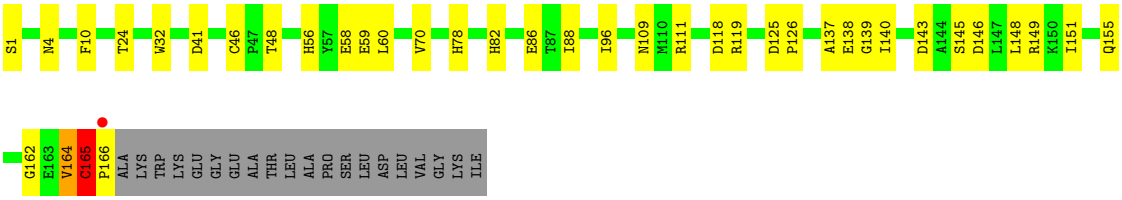
• Molecule 1: Alkyl hydroperoxide reductase subunit C

Chain E:



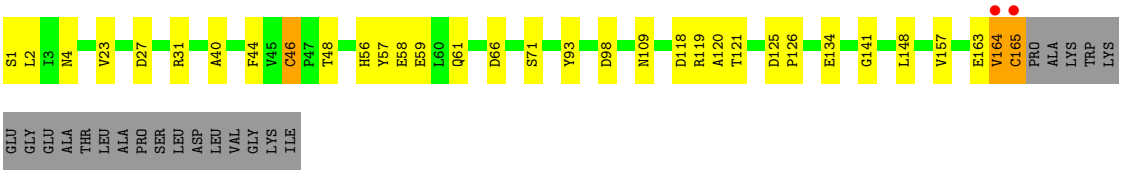
• Molecule 1: Alkyl hydroperoxide reductase subunit C

Chain F:



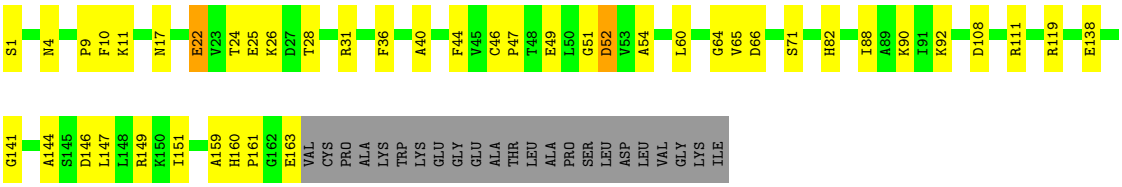
• Molecule 1: Alkyl hydroperoxide reductase subunit C

Chain G:



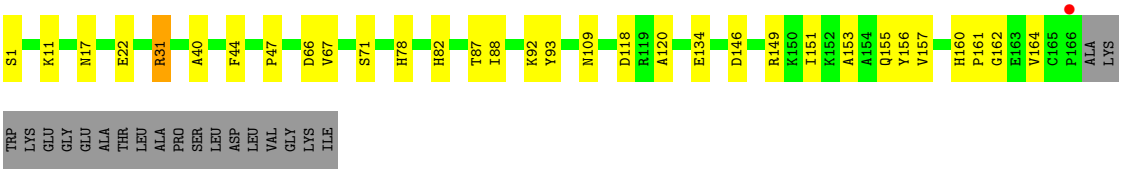
• Molecule 1: Alkyl hydroperoxide reductase subunit C

Chain H:



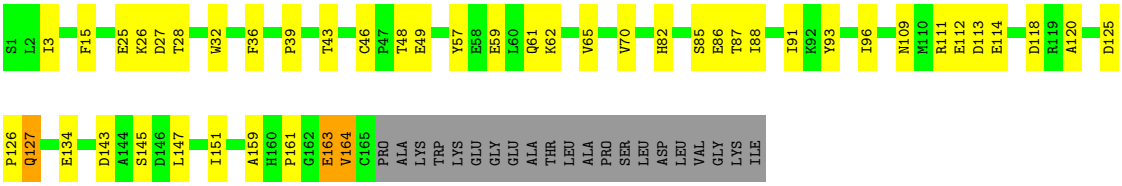
• Molecule 1: Alkyl hydroperoxide reductase subunit C

Chain I:



• Molecule 1: Alkyl hydroperoxide reductase subunit C

Chain J:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α, β, γ	136.35Å 169.96Å 117.65Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	100.00 – 2.60 63.27 – 2.60	Depositor EDS
% Data completeness (in resolution range)	(Not available) (100.00-2.60) 93.5 (63.27-2.60)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.93 (at 2.61Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.181 , 0.237 0.181 , 0.237	Depositor DCC
R_{free} test set	7964 reflections (9.50%)	wwPDB-VP
Wilson B-factor (Å^2)	40.8	Xtriage
Anisotropy	0.269	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.34 , 64.2	EDS
L-test for twinning[2]	$< \|L\| > = 0.50$, $< L^2 > = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.96	EDS
Total number of atoms	13819	wwPDB-VP
Average B, all atoms (Å^2)	43.0	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 41.66 % 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 2.2860e-04. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

[1]Intensities estimated from amplitudes.

[2]Theoretical values of $< |L| >$, $< L^2 >$ 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)

Bond lengths and bond angles in the following residue types are not validated in this section: NA

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	0.55	0/1337	0.74	0/1813
1	B	0.54	0/1329	0.70	0/1801
1	C	0.54	0/1316	0.72	0/1783
1	D	0.45	0/1337	0.67	0/1813
1	E	0.44	0/1329	0.67	0/1801
1	F	0.51	0/1337	0.70	0/1813
1	G	0.53	0/1329	0.69	0/1801
1	H	0.50	0/1316	0.71	1/1783 (0.1%)
1	I	0.51	0/1337	0.71	0/1813
1	J	0.45	0/1329	0.67	0/1801
All	All	0.50	0/13296	0.70	1/18022 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	H	111	ARG	N-CA-C	-5.07	97.32	111.00

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	1306	0	1261	31	0
1	B	1299	0	1254	48	0
1	C	1286	0	1240	31	0
1	D	1306	0	1261	50	0
1	E	1299	0	1255	38	0
1	F	1306	0	1260	31	0
1	G	1299	0	1253	30	0
1	H	1286	0	1240	31	0
1	I	1306	0	1261	22	0
1	J	1299	0	1255	40	0
2	A	1	0	0	0	0
3	A	112	0	0	1	0
3	B	95	0	0	4	0
3	C	94	0	0	4	0
3	D	67	0	0	3	0
3	E	32	0	0	1	0
3	F	100	0	0	4	0
3	G	101	0	0	6	0
3	H	96	0	0	6	0
3	I	89	0	0	3	0
3	J	40	0	0	1	0
All	All	13819	0	12540	330	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 13.

All (330) 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:119:ARG:HD3	3:B:2004:HOH:O	1.79	0.81
1:C:52:ASP:HB3	1:C:144:ALA:HB2	1.63	0.80
1:F:164:VAL:HG12	1:F:165:CYS:H	1.47	0.79
1:J:111:ARG:HH11	1:J:118:ASP:HA	1.50	0.77
1:F:164:VAL:HG12	1:F:165:CYS:N	2.02	0.74
1:C:119:ARG:HD3	3:C:3004:HOH:O	1.88	0.74
1:I:109:ASN:HD21	1:I:118:ASP:HB2	1.53	0.74
1:D:15:PHE:CE1	1:D:79:LYS:HG3	2.23	0.74
1:B:109:ASN:ND2	1:B:118:ASP:HB2	2.03	0.73
1:H:44:PHE:HB3	1:I:164:VAL:HG13	1.71	0.73
1:E:82:HIS:HA	1:E:88:ILE:HG22	1.70	0.73
1:I:109:ASN:ND2	1:I:118:ASP:HB2	2.05	0.72
1:G:56:HIS:HD2	1:G:148:LEU:HD12	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:160:HIS:N	1:H:161:PRO:HD3	2.04	0.71
1:G:119:ARG:HD3	3:G:2504:HOH:O	1.90	0.70
1:D:46:CYS:HB3	1:D:48:THR:HG22	1.72	0.70
1:J:82:HIS:HA	1:J:88:ILE:HG22	1.75	0.68
1:G:164:VAL:HG12	1:G:165:CYS:H	1.59	0.68
1:A:164:VAL:HG11	1:B:45:VAL:HG13	1.76	0.67
1:J:15:PHE:HE2	1:J:82:HIS:CD2	2.13	0.67
1:J:147:LEU:O	1:J:151:ILE:HG13	1.93	0.67
1:F:149:ARG:NH2	1:G:141:GLY:O	2.27	0.67
1:H:28:THR:HA	3:H:3545:HOH:O	1.95	0.67
1:H:141:GLY:O	1:I:149:ARG:NH2	2.27	0.66
1:C:11:LYS:HD3	3:C:3295:HOH:O	1.96	0.66
1:G:31:ARG:HD3	1:G:66:ASP:OD2	1.95	0.66
1:B:44:PHE:CD1	1:F:166:PRO:HD3	2.32	0.65
1:G:164:VAL:HG12	1:G:165:CYS:N	2.11	0.65
1:H:1:SER:HA	3:H:3649:HOH:O	1.97	0.65
1:D:164:VAL:O	1:D:166:PRO:HD3	1.96	0.64
1:J:85:SER:HB3	1:J:88:ILE:HB	1.77	0.64
1:D:164:VAL:HG12	1:D:165:CYS:N	2.12	0.64
1:H:31:ARG:NH2	1:H:64:GLY:HA2	2.13	0.64
1:B:59:GLU:CD	1:B:148:LEU:HD21	2.19	0.63
1:E:163:GLU:OE1	1:E:163:GLU:HA	1.97	0.63
1:H:31:ARG:HD3	1:H:66:ASP:OD2	1.99	0.63
1:A:149:ARG:NH2	1:B:141:GLY:O	2.30	0.63
1:A:59:GLU:OE2	1:A:148:LEU:HD22	1.99	0.63
1:D:46:CYS:CB	1:D:48:THR:HG22	2.29	0.63
1:E:45:VAL:HG12	1:E:46:CYS:H	1.61	0.63
1:C:143:ASP:OD2	1:C:145:SER:HB2	1.99	0.63
1:C:160:HIS:N	1:C:161:PRO:HD3	2.13	0.63
1:H:25:GLU:HG2	1:H:26:LYS:N	2.13	0.63
1:I:40:ALA:HB1	3:I:4597:HOH:O	1.99	0.63
1:B:17:ASN:ND2	1:B:92:LYS:HA	2.14	0.63
1:A:164:VAL:CG1	1:B:45:VAL:HG13	2.29	0.62
1:D:24:THR:OG1	1:D:26:LYS:HD2	1.99	0.62
1:J:61:GLN:OE1	1:J:61:GLN:HA	2.00	0.62
1:F:1:SER:HB2	3:F:1649:HOH:O	1.99	0.61
1:I:82:HIS:HA	1:I:88:ILE:HG22	1.81	0.61
1:A:109:ASN:ND2	1:A:118:ASP:HB2	2.15	0.61
1:G:109:ASN:ND2	1:G:118:ASP:HB2	2.15	0.61
1:G:163:GLU:OE1	1:G:163:GLU:HA	2.00	0.61
1:E:32:TRP:CE2	1:E:126:PRO:HD3	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:109:ASN:HD21	1:B:118:ASP:HB2	1.64	0.60
1:C:153:ALA:O	1:C:157:VAL:HG23	2.02	0.60
1:D:159:ALA:HB2	3:D:4077:HOH:O	2.01	0.60
1:E:151:ILE:O	1:E:155:GLN:HG3	2.02	0.59
1:C:139:GLY:HA3	1:D:157:VAL:HG21	1.84	0.59
1:E:82:HIS:HA	1:E:88:ILE:CG2	2.32	0.59
1:F:146:ASP:OD1	1:F:149:ARG:NH1	2.35	0.59
1:B:164:VAL:O	1:B:165:CYS:HB2	2.02	0.59
1:E:46:CYS:C	1:E:48:THR:H	2.05	0.59
1:J:39:PRO:HG3	1:J:111:ARG:HH12	1.69	0.58
1:E:56:HIS:CD2	1:E:148:LEU:HD12	2.38	0.58
1:D:82:HIS:HA	1:D:88:ILE:HG22	1.86	0.58
1:I:31:ARG:HD3	1:I:66:ASP:OD2	2.03	0.58
1:E:120:ALA:HA	1:E:134:GLU:O	2.03	0.58
3:D:5097:HOH:O	1:E:40:ALA:HB1	2.04	0.57
1:J:59:GLU:O	1:J:62:LYS:HB2	2.04	0.57
1:F:10:PHE:O	1:F:24:THR:HA	2.03	0.57
1:E:16:LYS:C	1:E:17:ASN:HD22	2.08	0.56
1:D:76:PHE:CD1	1:E:43:THR:HG22	2.40	0.56
1:A:26:LYS:HA	1:A:29:GLU:HG3	1.87	0.56
1:B:40:ALA:HB1	3:B:2097:HOH:O	2.05	0.55
1:C:146:ASP:OD1	1:C:149:ARG:NH1	2.39	0.55
1:E:45:VAL:HG12	1:E:46:CYS:N	2.22	0.55
1:J:127:GLN:NE2	1:J:127:GLN:N	2.54	0.55
1:D:85:SER:HB3	1:D:88:ILE:HG12	1.86	0.55
1:F:164:VAL:CG1	1:F:165:CYS:H	2.09	0.55
1:C:141:GLY:O	1:D:149:ARG:NH2	2.40	0.55
1:F:70:VAL:HG22	1:F:96:ILE:HB	1.89	0.55
1:B:125:ASP:HB2	1:B:126:PRO:HD2	1.89	0.55
1:B:156:TYR:CE1	1:B:160:HIS:HD2	2.25	0.55
1:B:156:TYR:CZ	1:B:160:HIS:HD2	2.25	0.55
1:E:86:GLU:OE1	1:E:86:GLU:HA	2.07	0.55
1:E:147:LEU:O	1:E:151:ILE:HG13	2.07	0.55
1:H:36:PHE:HZ	1:H:49:GLU:HB3	1.72	0.54
1:C:59:GLU:OE2	1:C:148:LEU:HD13	2.07	0.54
1:D:159:ALA:C	1:D:161:PRO:HD3	2.28	0.54
1:E:134:GLU:CD	1:E:142:ARG:HG2	2.27	0.54
1:F:111:ARG:HH12	1:F:138:GLU:CG	2.20	0.54
1:G:1:SER:HB2	3:G:2649:HOH:O	2.06	0.54
1:B:163:GLU:HB3	3:B:2279:HOH:O	2.07	0.54
1:D:109:ASN:ND2	1:D:118:ASP:HB2	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:46:CYS:C	1:J:48:THR:H	2.10	0.54
1:A:119:ARG:NE	1:A:138:GLU:OE1	2.41	0.54
1:D:125:ASP:HB2	1:D:126:PRO:CD	2.38	0.54
1:A:31:ARG:O	1:A:126:PRO:HA	2.07	0.54
1:J:15:PHE:CE2	1:J:82:HIS:CD2	2.96	0.54
1:D:71:SER:OG	1:D:73:ASP:HB2	2.08	0.54
1:F:1:SER:N	3:F:1701:HOH:O	2.41	0.54
1:A:153:ALA:O	1:A:157:VAL:HG23	2.07	0.53
1:C:149:ARG:NH2	1:D:141:GLY:O	2.41	0.53
1:J:36:PHE:HZ	1:J:49:GLU:HB3	1.73	0.53
1:B:85:SER:HB3	1:B:88:ILE:HG12	1.89	0.53
1:D:78:HIS:CD2	1:D:95:MET:HB3	2.44	0.53
1:B:44:PHE:CD1	1:F:165:CYS:HA	2.44	0.53
1:D:82:HIS:HA	1:D:88:ILE:CG2	2.38	0.53
1:E:61:GLN:OE1	1:E:61:GLN:HA	2.08	0.53
1:A:164:VAL:HG11	1:B:45:VAL:HG22	1.90	0.53
1:E:25:GLU:OE2	1:E:26:LYS:HE3	2.09	0.53
1:A:36:PHE:HZ	1:A:49:GLU:HB3	1.74	0.53
1:F:164:VAL:O	1:F:165:CYS:HB3	2.08	0.53
1:G:61:GLN:HA	1:G:61:GLN:NE2	2.25	0.52
1:C:109:ASN:ND2	1:C:118:ASP:HB2	2.25	0.52
1:C:58:GLU:O	1:C:62:LYS:HG3	2.10	0.52
1:G:57:TYR:CE1	1:G:93:TYR:HB3	2.45	0.52
1:D:46:CYS:C	1:D:48:THR:H	2.13	0.52
1:B:17:ASN:HD21	1:B:92:LYS:HA	1.73	0.52
1:A:165:CYS:HB3	1:B:46:CYS:SG	2.50	0.52
1:F:60:LEU:HG	1:F:148:LEU:HD21	1.92	0.52
1:C:56:HIS:HD2	1:C:148:LEU:HD12	1.74	0.51
1:E:134:GLU:OE1	1:E:142:ARG:HG2	2.09	0.51
1:G:109:ASN:HD21	1:G:118:ASP:HB2	1.74	0.51
1:E:16:LYS:C	1:E:17:ASN:ND2	2.63	0.51
1:C:31:ARG:HD3	1:C:66:ASP:OD2	2.11	0.51
1:G:59:GLU:OE2	1:G:148:LEU:HD13	2.11	0.51
1:H:10:PHE:O	1:H:24:THR:HA	2.11	0.51
1:B:44:PHE:CE1	1:F:166:PRO:HD3	2.45	0.51
1:E:24:THR:OG1	1:E:26:LYS:HD2	2.11	0.51
1:E:58:GLU:O	1:E:62:LYS:HG3	2.11	0.51
1:J:109:ASN:ND2	1:J:118:ASP:HB2	2.26	0.51
1:H:60:LEU:HD22	1:H:65:VAL:HG11	1.93	0.51
1:H:82:HIS:HD2	3:H:3808:HOH:O	1.92	0.51
1:H:90:LYS:HE2	3:H:3784:HOH:O	2.09	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:82:HIS:HE1	1:A:91:ILE:O	1.95	0.50
1:B:41:ASP:OD2	1:B:78:HIS:ND1	2.36	0.50
1:E:59:GLU:O	1:E:62:LYS:HB2	2.11	0.50
1:H:163:GLU:HG3	1:I:44:PHE:O	2.11	0.50
1:J:70:VAL:HG22	1:J:96:ILE:HB	1.94	0.50
1:B:163:GLU:OE1	1:B:163:GLU:HA	2.11	0.50
1:F:58:GLU:HG2	3:F:1703:HOH:O	2.12	0.50
1:B:65:VAL:HG21	1:B:151:ILE:HG21	1.93	0.50
1:C:56:HIS:CD2	1:C:148:LEU:HD12	2.46	0.50
1:D:38:TYR:CZ	1:D:71:SER:HB3	2.47	0.50
1:F:41:ASP:OD2	1:F:78:HIS:ND1	2.43	0.50
1:F:109:ASN:ND2	1:F:118:ASP:HB2	2.26	0.50
1:G:56:HIS:CD2	1:G:148:LEU:HD12	2.42	0.50
1:I:151:ILE:O	1:I:155:GLN:HG3	2.11	0.50
1:A:120:ALA:HA	1:A:134:GLU:O	2.12	0.50
3:F:1526:HOH:O	1:G:1:SER:HB3	2.12	0.50
1:H:31:ARG:HH22	1:H:64:GLY:HA2	1.77	0.50
1:B:17:ASN:HD21	1:B:92:LYS:CB	2.25	0.50
1:E:146:ASP:OD1	1:E:149:ARG:NH1	2.34	0.50
1:F:125:ASP:HB2	1:F:126:PRO:CD	2.42	0.50
1:H:51:GLY:O	1:H:54:ALA:HB3	2.13	0.49
1:I:156:TYR:CE1	1:I:160:HIS:CD2	3.00	0.49
1:J:125:ASP:HB2	1:J:126:PRO:HD2	1.93	0.49
1:C:85:SER:HB3	1:C:88:ILE:HG12	1.93	0.49
1:J:28:THR:HA	3:J:5545:HOH:O	2.12	0.49
1:J:109:ASN:HD21	1:J:118:ASP:HB2	1.77	0.49
1:J:125:ASP:HB2	1:J:126:PRO:CD	2.42	0.49
1:A:41:ASP:OD2	1:A:78:HIS:ND1	2.31	0.49
1:J:111:ARG:HD2	1:J:114:GLU:CD	2.33	0.49
1:D:164:VAL:CG1	1:D:165:CYS:N	2.75	0.49
1:C:38:TYR:CZ	1:C:71:SER:HB3	2.48	0.48
1:A:60:LEU:HD22	1:A:65:VAL:HG11	1.95	0.48
1:F:82:HIS:HA	1:F:88:ILE:HG22	1.95	0.48
1:J:32:TRP:CB	1:J:65:VAL:HG22	2.44	0.48
1:D:31:ARG:HD3	1:D:66:ASP:OD2	2.12	0.48
1:J:25:GLU:HG2	1:J:26:LYS:N	2.28	0.48
1:A:109:ASN:HD21	1:A:118:ASP:HB2	1.77	0.48
1:I:82:HIS:HD2	3:I:4808:HOH:O	1.96	0.47
1:I:120:ALA:HA	1:I:134:GLU:O	2.14	0.47
1:B:70:VAL:HG22	1:B:96:ILE:HB	1.95	0.47
1:G:125:ASP:HB2	1:G:126:PRO:CD	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:127:GLN:NE2	1:J:127:GLN:H	2.12	0.47
1:B:125:ASP:HB2	1:B:126:PRO:CD	2.44	0.47
1:C:32:TRP:CE2	1:C:126:PRO:HD3	2.50	0.47
3:A:1187:HOH:O	1:B:1:SER:HB3	2.13	0.47
1:J:57:TYR:CE1	1:J:93:TYR:HB3	2.49	0.47
1:J:15:PHE:HE2	1:J:82:HIS:CG	2.32	0.47
1:J:159:ALA:C	1:J:161:PRO:HD3	2.35	0.47
1:B:82:HIS:HA	1:B:88:ILE:HG22	1.97	0.47
1:B:17:ASN:HD21	1:B:92:LYS:HB3	1.79	0.47
1:C:109:ASN:HD21	1:C:118:ASP:HB2	1.79	0.47
1:D:164:VAL:HG12	1:D:165:CYS:H	1.80	0.47
1:I:71:SER:OG	1:I:78:HIS:HE1	1.97	0.47
1:A:10:PHE:O	1:A:24:THR:HA	2.15	0.47
1:B:40:ALA:O	1:B:43:THR:HG23	2.15	0.47
1:D:6:LYS:HA	1:D:128:GLY:O	2.14	0.47
1:J:46:CYS:HB3	1:J:48:THR:OG1	2.15	0.46
1:J:111:ARG:NH1	1:J:118:ASP:HA	2.25	0.46
1:B:19:GLU:N	1:B:19:GLU:OE1	2.48	0.46
1:E:17:ASN:OD1	1:E:92:LYS:HG3	2.15	0.46
1:F:32:TRP:CE2	1:F:126:PRO:HD3	2.50	0.46
1:H:90:LYS:O	1:H:92:LYS:HE3	2.16	0.46
1:I:11:LYS:HE3	1:I:22:GLU:OE2	2.15	0.46
1:A:46:CYS:C	1:A:48:THR:H	2.19	0.46
1:A:70:VAL:HG22	1:A:96:ILE:HB	1.96	0.46
1:D:160:HIS:N	1:D:161:PRO:HD3	2.30	0.46
1:J:82:HIS:HA	1:J:88:ILE:CG2	2.45	0.46
1:G:40:ALA:HB1	3:H:2597:HOH:O	2.15	0.46
1:I:17:ASN:HD21	1:I:92:LYS:HA	1.79	0.46
1:I:31:ARG:CD	1:I:66:ASP:OD2	2.64	0.46
1:H:147:LEU:O	1:H:151:ILE:HG13	2.14	0.46
1:A:146:ASP:OD1	1:A:149:ARG:NH1	2.49	0.46
1:A:149:ARG:NH1	1:B:143:ASP:HB2	2.30	0.46
1:D:15:PHE:HD1	1:D:20:PHE:CE1	2.34	0.46
1:B:32:TRP:CE2	1:B:126:PRO:HD3	2.51	0.46
1:C:120:ALA:HB2	1:C:135:VAL:HG13	1.97	0.46
1:D:31:ARG:HH22	1:D:64:GLY:HA2	1.81	0.46
1:H:146:ASP:OD1	1:H:149:ARG:NH1	2.43	0.46
1:C:57:TYR:CE1	1:C:93:TYR:HB3	2.50	0.45
1:D:120:ALA:HA	1:D:134:GLU:O	2.17	0.45
1:D:146:ASP:OD2	1:D:150:LYS:HE3	2.16	0.45
1:E:57:TYR:CZ	1:E:61:GLN:NE2	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:162:GLY:O	1:D:164:VAL:N	2.48	0.45
1:G:164:VAL:CG1	1:G:165:CYS:H	2.22	0.45
1:B:17:ASN:HD21	1:B:92:LYS:CA	2.30	0.45
1:C:52:ASP:HB3	1:C:144:ALA:CB	2.41	0.45
1:J:32:TRP:CE2	1:J:126:PRO:HD3	2.51	0.45
1:A:32:TRP:CE2	1:A:126:PRO:HD3	2.51	0.45
1:A:120:ALA:HB2	1:A:135:VAL:HG13	1.97	0.45
1:E:56:HIS:HD2	1:E:148:LEU:HD12	1.82	0.45
1:B:47:PRO:CB	1:B:88:ILE:HD11	2.47	0.45
1:G:121:THR:HG21	3:G:2626:HOH:O	2.15	0.45
1:D:123:VAL:HB	1:D:132:ALA:HB3	1.97	0.45
1:G:2:LEU:HD23	1:G:2:LEU:HA	1.82	0.45
1:H:9:PRO:HA	1:H:25:GLU:HB3	1.99	0.45
1:B:15:PHE:HE2	1:B:82:HIS:CG	2.35	0.44
1:B:47:PRO:CG	1:B:88:ILE:HD11	2.47	0.44
1:J:57:TYR:OH	1:J:61:GLN:NE2	2.50	0.44
1:J:143:ASP:OD1	1:J:145:SER:N	2.50	0.44
1:J:82:HIS:CG	1:J:82:HIS:O	2.70	0.44
1:A:165:CYS:CB	1:B:46:CYS:SG	3.05	0.44
1:E:71:SER:OG	1:E:73:ASP:HB2	2.18	0.44
1:D:10:PHE:O	1:D:24:THR:HA	2.17	0.44
1:E:26:LYS:NZ	3:E:5039:HOH:O	2.50	0.44
1:C:31:ARG:NH2	1:C:64:GLY:HA2	2.32	0.44
1:G:61:GLN:HA	1:G:61:GLN:HE21	1.82	0.44
1:B:86:GLU:O	1:B:89:ALA:HB3	2.17	0.44
1:H:11:LYS:HE2	1:H:22:GLU:OE2	2.18	0.44
1:F:143:ASP:OD1	1:F:145:SER:HB2	2.17	0.44
1:E:111:ARG:HD3	1:E:114:GLU:OE1	2.16	0.43
1:E:41:ASP:OD2	1:E:78:HIS:ND1	2.42	0.43
1:F:125:ASP:HB2	1:F:126:PRO:HD2	1.99	0.43
1:B:164:VAL:O	1:B:165:CYS:CB	2.66	0.43
1:J:111:ARG:HE	1:J:111:ARG:HB2	1.69	0.43
1:D:36:PHE:O	1:D:69:SER:HA	2.18	0.43
1:D:78:HIS:HD2	1:D:95:MET:O	2.02	0.43
1:D:125:ASP:HB2	1:D:126:PRO:HD2	2.01	0.43
1:C:120:ALA:HA	1:C:134:GLU:O	2.18	0.43
3:C:3026:HOH:O	1:D:1:SER:HB3	2.19	0.43
1:D:65:VAL:HG21	1:D:151:ILE:HG21	2.01	0.43
1:G:23:VAL:HA	1:G:27:ASP:OD2	2.18	0.43
1:J:3:ILE:O	1:J:3:ILE:HG23	2.18	0.43
1:B:85:SER:CB	1:B:88:ILE:HG12	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:60:LEU:HB3	1:C:65:VAL:HB	2.01	0.43
1:F:56:HIS:HB3	1:F:148:LEU:HD11	2.00	0.43
1:J:163:GLU:O	1:J:164:VAL:O	2.36	0.43
1:H:46:CYS:HA	1:H:47:PRO:HD3	1.77	0.43
1:H:52:ASP:HB3	1:H:144:ALA:HB2	2.00	0.43
1:E:56:HIS:HB3	1:E:148:LEU:HD11	2.00	0.43
1:H:1:SER:HB2	3:I:4526:HOH:O	2.18	0.43
1:E:49:GLU:OE1	1:E:141:GLY:HA2	2.19	0.42
1:F:151:ILE:O	1:F:155:GLN:HG3	2.18	0.42
3:G:3597:HOH:O	1:H:40:ALA:HB1	2.19	0.42
1:C:119:ARG:HB2	1:C:136:THR:O	2.19	0.42
1:H:119:ARG:NH2	1:H:138:GLU:OE1	2.43	0.42
1:B:98:ASP:HA	3:B:2019:HOH:O	2.18	0.42
1:C:39:PRO:O	1:C:116:LEU:HD22	2.19	0.42
1:D:85:SER:HB3	1:D:88:ILE:CG1	2.48	0.42
1:E:46:CYS:C	1:E:48:THR:N	2.72	0.42
1:J:57:TYR:O	1:J:61:GLN:HB2	2.20	0.42
1:C:37:PHE:CD2	1:C:70:VAL:HB	2.54	0.42
1:H:11:LYS:NZ	1:H:22:GLU:OE2	2.50	0.42
1:I:146:ASP:OD1	1:I:149:ARG:NH1	2.52	0.42
1:G:125:ASP:OD1	1:G:125:ASP:C	2.58	0.42
1:H:82:HIS:HA	1:H:88:ILE:HG22	2.01	0.42
1:E:32:TRP:NE1	1:E:126:PRO:HD3	2.35	0.42
1:E:153:ALA:O	1:E:157:VAL:HG23	2.19	0.42
1:D:52:ASP:HB3	1:D:144:ALA:HB2	2.02	0.42
1:H:108:ASP:O	1:I:1:SER:HB3	2.20	0.42
1:G:120:ALA:HA	1:G:134:GLU:O	2.19	0.42
1:I:153:ALA:O	1:I:157:VAL:HG23	2.19	0.42
1:D:83:SER:HB3	3:D:4102:HOH:O	2.20	0.42
1:F:109:ASN:HD21	1:F:118:ASP:HB2	1.85	0.42
1:A:148:LEU:O	1:A:152:LYS:HG3	2.20	0.41
1:H:159:ALA:O	1:H:160:HIS:ND1	2.53	0.41
1:D:2:LEU:HD23	1:D:2:LEU:HA	1.90	0.41
1:D:96:ILE:HG22	1:D:97:GLY:N	2.35	0.41
1:D:73:ASP:HB2	1:D:78:HIS:HE1	1.86	0.41
1:G:98:ASP:HA	3:G:2519:HOH:O	2.20	0.41
1:A:32:TRP:CB	1:A:65:VAL:HG22	2.51	0.41
1:A:125:ASP:HB2	1:A:126:PRO:CD	2.51	0.41
1:B:120:ALA:HA	1:B:134:GLU:O	2.21	0.41
1:B:82:HIS:HA	1:B:88:ILE:CG2	2.50	0.41
1:D:32:TRP:CE2	1:D:155:GLN:HG2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:17:ASN:ND2	1:E:17:ASN:N	2.68	0.41
1:A:165:CYS:C	1:B:46:CYS:SG	2.99	0.41
1:C:28:THR:HA	3:C:3045:HOH:O	2.19	0.41
1:F:137:ALA:HB3	1:F:140:ILE:HD12	2.03	0.41
1:H:17:ASN:ND2	1:H:92:LYS:O	2.54	0.41
1:A:62:LYS:HE2	3:H:3761:HOH:O	2.21	0.41
1:A:165:CYS:HA	1:A:166:PRO:HD3	1.64	0.41
1:B:143:ASP:OD1	1:B:145:SER:HB2	2.21	0.41
1:D:32:TRP:CE3	1:D:125:ASP:HA	2.56	0.41
1:F:59:GLU:OE2	1:F:148:LEU:HD13	2.20	0.41
1:G:46:CYS:C	1:G:48:THR:H	2.24	0.41
1:I:156:TYR:CZ	1:I:160:HIS:CD2	3.09	0.41
1:J:120:ALA:HA	1:J:134:GLU:O	2.21	0.41
1:D:53:VAL:HG12	1:D:93:TYR:CE2	2.56	0.41
1:D:164:VAL:CG1	1:D:165:CYS:H	2.33	0.41
1:G:66:ASP:HA	3:G:2583:HOH:O	2.20	0.41
1:I:67:VAL:O	1:I:93:TYR:HB2	2.21	0.41
1:F:139:GLY:HA3	1:G:157:VAL:HG21	2.03	0.40
1:J:111:ARG:O	1:J:113:ASP:N	2.54	0.40
1:B:17:ASN:ND2	1:B:92:LYS:CA	2.82	0.40
1:C:57:TYR:O	1:C:61:GLN:HG2	2.22	0.40
1:D:136:THR:HB	1:D:140:ILE:HB	2.03	0.40
1:J:32:TRP:HB3	1:J:65:VAL:HG22	2.03	0.40
1:J:91:ILE:HG23	1:J:93:TYR:CE1	2.56	0.40
1:D:46:CYS:HA	1:D:47:PRO:HD3	1.93	0.40
1:G:61:GLN:HE21	1:G:61:GLN:CA	2.34	0.40
1:E:45:VAL:O	1:E:47:PRO:HD3	2.21	0.40
1:F:119:ARG:HD2	1:F:138:GLU:HG2	2.04	0.40
1:F:164:VAL:HG11	1:G:44:PHE:HB3	2.03	0.40
1:I:47:PRO:HB2	1:I:87:THR:HG21	2.03	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	164/186 (88%)	158 (96%)	6 (4%)	0	100	100
1	B	163/186 (88%)	154 (94%)	6 (4%)	3 (2%)	8	16
1	C	161/186 (87%)	156 (97%)	5 (3%)	0	100	100
1	D	164/186 (88%)	152 (93%)	11 (7%)	1 (1%)	25	47
1	E	163/186 (88%)	144 (88%)	14 (9%)	5 (3%)	4	6
1	F	164/186 (88%)	157 (96%)	4 (2%)	3 (2%)	8	16
1	G	163/186 (88%)	156 (96%)	6 (4%)	1 (1%)	25	47
1	H	161/186 (87%)	153 (95%)	8 (5%)	0	100	100
1	I	164/186 (88%)	156 (95%)	6 (4%)	2 (1%)	13	27
1	J	163/186 (88%)	146 (90%)	15 (9%)	2 (1%)	13	27
All	All	1630/1860 (88%)	1532 (94%)	81 (5%)	17 (1%)	15	32

All (17) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	F	164	VAL
1	F	165	CYS
1	G	164	VAL
1	J	164	VAL
1	B	164	VAL
1	D	163	GLU
1	E	17	ASN
1	F	162	GLY
1	I	162	GLY
1	J	112	GLU
1	E	162	GLY
1	I	161	PRO
1	B	17	ASN
1	E	58	GLU
1	B	42	PHE
1	E	84	SER
1	E	47	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	139/154 (90%)	136 (98%)	3 (2%)	52	76
1	B	138/154 (90%)	136 (99%)	2 (1%)	67	85
1	C	136/154 (88%)	134 (98%)	2 (2%)	65	83
1	D	139/154 (90%)	135 (97%)	4 (3%)	42	68
1	E	138/154 (90%)	133 (96%)	5 (4%)	35	61
1	F	139/154 (90%)	134 (96%)	5 (4%)	35	61
1	G	138/154 (90%)	133 (96%)	5 (4%)	35	61
1	H	136/154 (88%)	132 (97%)	4 (3%)	42	68
1	I	139/154 (90%)	138 (99%)	1 (1%)	84	94
1	J	138/154 (90%)	132 (96%)	6 (4%)	29	54
All	All	1380/1540 (90%)	1343 (97%)	37 (3%)	44	71

All (37) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	46	CYS
1	A	52	ASP
1	A	148	LEU
1	B	4	ASN
1	B	138	GLU
1	C	52	ASP
1	C	59	GLU
1	D	27	ASP
1	D	33	SER
1	D	48	THR
1	D	71	SER
1	E	17	ASN
1	E	46	CYS
1	E	71	SER
1	E	87	THR
1	E	113	ASP

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Mol	Chain	Res	Type
1	F	4	ASN
1	F	46	CYS
1	F	48	THR
1	F	86	GLU
1	F	165	CYS
1	G	4	ASN
1	G	46	CYS
1	G	58	GLU
1	G	71	SER
1	G	165	CYS
1	H	4	ASN
1	H	22	GLU
1	H	52	ASP
1	H	71	SER
1	I	31	ARG
1	J	27	ASP
1	J	43	THR
1	J	86	GLU
1	J	87	THR
1	J	127	GLN
1	J	163	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (32) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	13	GLN
1	A	82	HIS
1	A	109	ASN
1	B	17	ASN
1	B	82	HIS
1	B	109	ASN
1	B	160	HIS
1	C	82	HIS
1	C	109	ASN
1	D	13	GLN
1	D	109	ASN
1	D	131	GLN
1	E	82	HIS
1	E	109	ASN
1	F	109	ASN
1	G	56	HIS
1	G	61	GLN

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Mol	Chain	Res	Type
1	G	82	HIS
1	G	109	ASN
1	H	82	HIS
1	H	109	ASN
1	H	127	GLN
1	I	4	ASN
1	I	17	ASN
1	I	82	HIS
1	I	109	ASN
1	I	127	GLN
1	I	160	HIS
1	J	61	GLN
1	J	109	ASN
1	J	127	GLN
1	J	155	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 (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, 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	166/186 (89%)	-0.47	1 (0%)	89	88	18, 34, 65, 106	0
1	B	165/186 (88%)	-0.46	0	100	100	18, 35, 62, 115	0
1	C	163/186 (87%)	-0.41	0	100	100	21, 38, 65, 88	0
1	D	166/186 (89%)	-0.32	1 (0%)	89	88	30, 50, 73, 101	0
1	E	165/186 (88%)	-0.16	1 (0%)	89	88	36, 59, 95, 141	0
1	F	166/186 (89%)	-0.56	1 (0%)	89	88	18, 32, 62, 119	0
1	G	165/186 (88%)	-0.49	2 (1%)	79	76	21, 35, 67, 115	0
1	H	163/186 (87%)	-0.44	0	100	100	21, 40, 66, 99	0
1	I	166/186 (89%)	-0.50	1 (0%)	89	88	24, 37, 60, 99	0
1	J	165/186 (88%)	-0.25	0	100	100	30, 48, 82, 121	0
All	All	1650/1860 (88%)	-0.41	7 (0%)	92	91	18, 41, 76, 141	0

All (7) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	G	164	VAL	3.6
1	G	165	CYS	3.4
1	F	166	PRO	3.1
1	A	166	PRO	3.0
1	I	166	PRO	2.6
1	E	163	GLU	2.5
1	D	166	PRO	2.4

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
2	NA	A	6001	1/1	0.78	0.26	14,14,14,14	1

6.5 Other polymers (i)

There are no such residues in this entry.