



Full wwPDB X-ray Structure Validation Report

Feb 28, 2014 – 02:34 AM GMT

PDB ID : 1XML
Title : Structure of human Dcps
Authors : Chen, N.; Song, H.
Deposited on : 2004-10-04
Resolution : 2.00 Å(reported)

This is a full wwPDB validation report for a publicly released PDB entry.
We welcome your comments at validation@mail.wwpdb.org
A user guide is available at <http://wwpdb.org/ValidationPDFNotes.html>

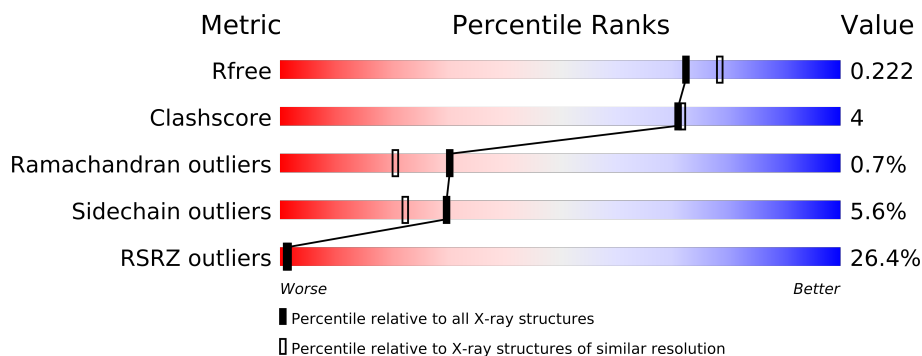
The following versions of software and data (see [references](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.15 2013
Xtriage (Phenix) : dev-1323
EDS : stable22639
Percentile statistics : 21963
Refmac : 5.8.0049
CCP4 : 6.3.0 (Settle)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : stable22683

1 Overall quality at a glance



The reported resolution of this entry is 2.00 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}	66092	4888 (2.00-2.00)
Clashscore	79885	6188 (2.00-2.00)
Ramachandran outliers	78287	6102 (2.00-2.00)
Sidechain outliers	78261	6100 (2.00-2.00)
RSRZ outliers	66119	4890 (2.00-2.00)

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 on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density.

Mol	Chain	Length	Quality of chain
1	A	342	
1	B	342	

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 5177 atoms, of which 0 are hydrogen and 0 are deuterium.

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 heat shock-like protein 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	B	282	Total	C	N	O	S	0	0	0
			2350	1504	421	420	5			
1	A	284	Total	C	N	O	S	0	0	0
			2363	1512	423	423	5			

There are 14 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	-4	GLY	-	CLONING ARTIFACT	GB 30138167
B	-3	PRO	-	CLONING ARTIFACT	GB 30138167
B	-2	LEU	-	CLONING ARTIFACT	GB 30138167
B	-1	GLY	-	CLONING ARTIFACT	GB 30138167
B	0	SER	-	CLONING ARTIFACT	GB 30138167
B	206	MET	LEU	ENGINEERED	GB 30138167
B	317	MET	LEU	ENGINEERED	GB 30138167
A	-4	GLY	-	CLONING ARTIFACT	GB 30138167
A	-3	PRO	-	CLONING ARTIFACT	GB 30138167
A	-2	LEU	-	CLONING ARTIFACT	GB 30138167
A	-1	GLY	-	CLONING ARTIFACT	GB 30138167
A	0	SER	-	CLONING ARTIFACT	GB 30138167
A	206	MET	LEU	ENGINEERED	GB 30138167
A	317	MET	LEU	ENGINEERED	GB 30138167

- Molecule 2 is PHOSPHATE ION (three-letter code: PO4) (formula: O₄P).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	O	P	0	0
			5	4	1		
2	B	1	Total	O	P	0	0
			5	4	1		

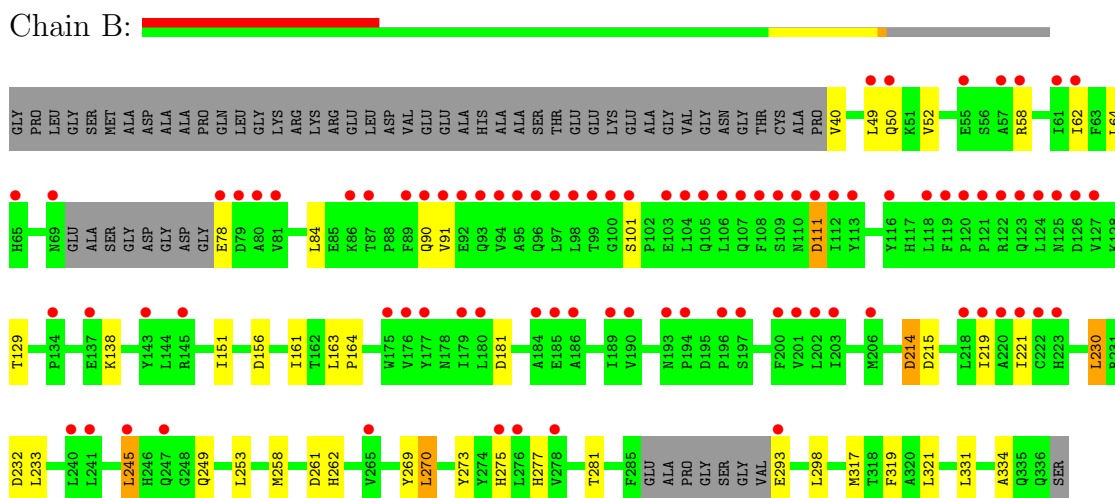
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	222	Total	O	0	0
			222	222		
3	B	232	Total	O	0	0
			232	232		

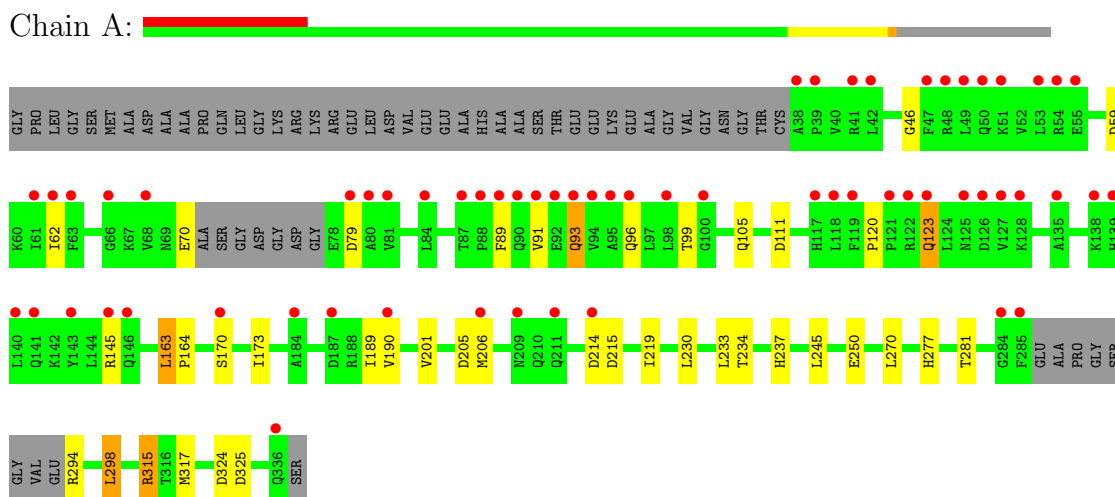
3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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: heat shock-like protein 1



- Molecule 1: heat shock-like protein 1



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α , β , γ	101.92Å 103.86Å 71.07Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	20.00 – 2.00 46.27 – 2.00	Depositor EDS
% Data completeness (in resolution range)	99.7 (20.00-2.00) 99.6 (46.27-2.00)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.70 (at 2.00Å)	Xtriage
Refinement program	REFMAC 5.1.24	Depositor
R, R_{free}	0.220 , 0.253 0.225 , 0.222	Depositor DCC
R_{free} test set	2621 reflections (5.36%)	DCC
Wilson B-factor (Å ²)	27.5	Xtriage
Anisotropy	0.414	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 49.7	EDS
Estimated twinning fraction	0.019 for k,h,-l	Xtriage
L-test for twinning	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Outliers	0 of 51479 reflections	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	5177	wwPDB-VP
Average B, all atoms (Å ²)	29.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.58% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: PO4

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	0.40	0/2418	0.75	8/3278 (0.2%)
1	B	0.40	0/2404	0.74	7/3258 (0.2%)
All	All	0.40	0/4822	0.75	15/6536 (0.2%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	B	0	1

There are no bond length outliers.

All (15) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	261	ASP	CB-CG-OD2	7.27	124.84	118.30
1	A	111	ASP	CB-CG-OD2	6.75	124.37	118.30
1	A	325	ASP	CB-CG-OD2	6.73	124.35	118.30
1	A	215	ASP	CB-CG-OD2	6.19	123.87	118.30
1	A	205	ASP	CB-CG-OD2	5.66	123.39	118.30
1	B	215	ASP	CB-CG-OD2	5.60	123.34	118.30
1	B	156	ASP	CB-CG-OD2	5.55	123.29	118.30
1	B	111	ASP	CB-CG-OD2	5.46	123.22	118.30
1	A	324	ASP	CB-CG-OD2	5.39	123.15	118.30
1	A	79	ASP	CB-CG-OD2	5.37	123.13	118.30
1	A	59	ASP	CB-CG-OD2	5.24	123.02	118.30
1	B	181	ASP	CB-CG-OD2	5.19	122.97	118.30
1	B	232	ASP	CB-CG-OD2	5.18	122.96	118.30
1	A	214	ASP	CB-CG-OD2	5.12	122.91	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	214	ASP	CB-CG-OD2	5.07	122.86	118.30

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	B	269	TYR	Peptide

5.2 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 hydrogens added by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, and the number in parentheses is this value normalized per 1000 atoms of the molecule in the chain. The Symm-Clashes column gives symmetry related clashes, in the same way as for the Clashes column.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2363	0	2364	16	0
1	B	2350	0	2352	28	0
2	A	5	0	0	0	0
2	B	5	0	0	1	0
3	A	222	0	0	2	0
3	B	232	0	0	12	0
All	All	5177	0	4716	42	0

Clashscore is defined as the number of clashes calculated for the entry per 1000 atoms (including hydrogens) of the entry. The overall clashscore for this entry is 4.

All (42) close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:281:THR:HB	3:B:776:HOH:O	1.47	1.15
1:A:219:ILE:HD13	3:A:700:HOH:O	1.85	0.76
1:A:234:THR:H	1:A:237:HIS:HD2	1.39	0.70
1:B:221:ILE:HD12	3:B:760:HOH:O	1.94	0.67
1:A:230:LEU:HD12	1:A:233:LEU:HD12	1.80	0.63
1:A:315:ARG:NH1	3:A:629:HOH:O	2.32	0.61
1:B:219:ILE:HD13	3:B:622:HOH:O	2.02	0.59
1:B:275:HIS:O	1:B:277:HIS:HD2	1.85	0.59
1:A:173:ILE:HG22	1:A:173:ILE:O	2.05	0.56
1:B:277:HIS:HE1	2:B:602:PO4:O3	1.91	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:62:ILE:HD12	1:A:89:PHE:HB2	1.90	0.53
1:B:245:LEU:HD22	1:B:249:GLN:OE1	2.09	0.53
1:A:230:LEU:HD23	1:A:317:MET:HE1	1.91	0.52
1:B:161:ILE:HD11	1:B:334:ALA:CB	2.40	0.52
1:B:270:LEU:HD22	1:B:321:LEU:HD21	1.94	0.50
1:B:90:GLN:NE2	3:B:703:HOH:O	2.42	0.49
1:B:49:LEU:HD11	1:B:64:LEU:HD22	1.94	0.49
1:B:273:TYR:CZ	1:B:277:HIS:CD2	3.00	0.49
1:A:219:ILE:HD11	1:A:277:HIS:CD2	2.49	0.48
1:B:62:ILE:HG23	3:B:795:HOH:O	2.14	0.47
1:B:219:ILE:HD11	1:B:277:HIS:HB2	1.96	0.47
1:A:245:LEU:HB2	1:A:298:LEU:HD13	1.96	0.47
1:A:93:GLN:HG2	1:A:123:GLN:HE22	1.80	0.47
1:A:219:ILE:HD11	1:A:277:HIS:HB2	1.97	0.46
1:B:52:VAL:HG13	3:B:795:HOH:O	2.15	0.46
1:B:91:VAL:HG22	1:A:62:ILE:HD11	1.99	0.45
1:B:84:LEU:HD13	1:B:129:THR:HG23	1.99	0.45
1:A:189:ILE:HG23	1:A:201:VAL:HG13	1.99	0.45
1:B:62:ILE:HG21	3:B:804:HOH:O	2.18	0.44
1:A:163:LEU:HB3	1:A:164:PRO:HD3	2.00	0.43
1:B:40:VAL:N	3:B:728:HOH:O	2.52	0.43
1:B:293:GLU:O	1:B:319:PHE:HA	2.19	0.42
3:B:804:HOH:O	1:A:91:VAL:HA	2.19	0.42
1:B:64:LEU:HD12	3:B:803:HOH:O	2.19	0.42
1:B:151:ILE:HD11	1:B:331:LEU:HB3	2.01	0.42
1:B:230:LEU:HD23	1:B:317:MET:HE1	2.01	0.41
1:B:270:LEU:HB2	3:B:754:HOH:O	2.20	0.41
1:A:230:LEU:HD23	1:A:317:MET:CE	2.51	0.41
1:B:49:LEU:HD12	3:B:791:HOH:O	2.20	0.41
1:B:62:ILE:HG22	1:B:64:LEU:HG	2.02	0.41
1:B:230:LEU:HD12	1:B:233:LEU:HD12	2.03	0.41
1:B:163:LEU:HB3	1:B:164:PRO:HD3	2.03	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone ⓘ

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	278/342 (81%)	271 (98%)	6 (2%)	1 (0%)	43	36
1	B	276/342 (81%)	266 (96%)	7 (2%)	3 (1%)	21	10
All	All	554/684 (81%)	537 (97%)	13 (2%)	4 (1%)	30	20

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	270	LEU
1	B	101	SER
1	B	111	ASP
1	A	46	GLY

5.3.2 Protein sidechains ⓘ

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	260/298 (87%)	242 (93%)	18 (7%)	22	15
1	B	259/298 (87%)	248 (96%)	11 (4%)	40	34
All	All	519/596 (87%)	490 (94%)	29 (6%)	30	22

All (29) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	50	GLN
1	B	58	ARG
1	B	78	GLU
1	B	138	LYS
1	B	214	ASP
1	B	230	LEU
1	B	245	LEU
1	B	253	LEU
1	B	258	MET
1	B	262	HIS
1	B	298	LEU

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Mol	Chain	Res	Type
1	A	70	GLU
1	A	93	GLN
1	A	96	GLN
1	A	99	THR
1	A	105	GLN
1	A	120	PRO
1	A	123	GLN
1	A	145	ARG
1	A	163	LEU
1	A	170	SER
1	A	190	VAL
1	A	206	MET
1	A	250	GLU
1	A	270	LEU
1	A	281	THR
1	A	294	ARG
1	A	298	LEU
1	A	315	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	107	GLN
1	B	169	GLN
1	B	277	HIS
1	A	209	ASN
1	A	210	GLN
1	A	237	HIS
1	A	249	GLN

5.3.3 RNA ⓘ

There are no RNA chains in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

2 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
2	PO4	A	601	-	4,4,4	0.46	0	6,6,6	0.32	0
2	PO4	B	602	-	4,4,4	0.43	0	6,6,6	0.33	0

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	PO4	A	601	-	-	0/0/0/0	0/0/0/0
2	PO4	B	602	-	-	0/0/0/0	0/0/0/0

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.

5.7 Other polymers ⓘ

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 ⓘ

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	A	284/342 (83%)	1.21	62 (21%) 1 2	9, 21, 48, 50	0
1	B	282/342 (82%)	1.71	88 (31%) 1 1	10, 21, 55, 58	0
All	All	566/684 (82%)	1.46	150 (26%) 1 1	9, 21, 51, 58	0

All (150) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	113	TYR	10.2
1	B	94	VAL	9.8
1	B	91	VAL	8.9
1	A	49	LEU	8.8
1	B	112	ILE	8.4
1	B	95	ALA	7.9
1	A	38	ALA	7.6
1	B	101	SER	6.2
1	B	96	GLN	5.8
1	A	55	GLU	5.2
1	A	94	VAL	5.2
1	A	128	LYS	5.1
1	B	118	LEU	5.1
1	A	211	GLN	4.9
1	B	58	ARG	4.9
1	A	47	PHE	4.9
1	B	110	ASN	4.8
1	B	57	ALA	4.7
1	A	61	ILE	4.7
1	B	89	PHE	4.6
1	B	100	GLY	4.5
1	B	61	ILE	4.4
1	B	119	PHE	4.3
1	A	122	ARG	4.2

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Mol	Chain	Res	Type	RSRZ
1	B	180	LEU	4.2
1	A	91	VAL	4.1
1	B	179	ILE	4.0
1	A	170	SER	3.9
1	A	84	LEU	3.9
1	B	145	ARG	3.9
1	A	80	ALA	3.9
1	B	49	LEU	3.8
1	B	109	SER	3.8
1	B	206	MET	3.7
1	B	202	LEU	3.6
1	B	90	GLN	3.6
1	B	201	VAL	3.6
1	B	99	THR	3.6
1	A	284	GLY	3.6
1	B	87	THR	3.6
1	A	98	LEU	3.5
1	A	123	GLN	3.5
1	B	176	VAL	3.5
1	A	214	ASP	3.5
1	A	51	LYS	3.5
1	B	220	ALA	3.4
1	A	140	LEU	3.4
1	B	194	PRO	3.4
1	B	124	LEU	3.4
1	B	81	VAL	3.4
1	A	96	GLN	3.4
1	B	175	TRP	3.4
1	A	63	PHE	3.4
1	B	126	ASP	3.3
1	A	121	PRO	3.3
1	B	106	LEU	3.3
1	B	93	GLN	3.2
1	A	81	VAL	3.2
1	A	126	ASP	3.2
1	A	48	ARG	3.2
1	A	127	VAL	3.2
1	B	189	ILE	3.2
1	A	90	GLN	3.2
1	A	141	GLN	3.2
1	A	79	ASP	3.2
1	A	88	PRO	3.1

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Mol	Chain	Res	Type	RSRZ
1	B	186	ALA	3.1
1	A	143	TYR	3.1
1	B	92	GLU	3.1
1	B	103	GLU	3.1
1	B	222	CYS	3.1
1	A	53	LEU	3.1
1	A	118	LEU	3.0
1	B	196	PRO	3.0
1	B	293	GLU	3.0
1	B	108	PHE	3.0
1	B	221	ILE	3.0
1	A	54	ARG	2.9
1	A	139	HIS	2.9
1	B	219	ILE	2.9
1	B	98	LEU	2.9
1	B	185	GLU	2.9
1	B	137	GLU	2.9
1	A	146	GLN	2.9
1	B	184	ALA	2.8
1	B	278	VAL	2.8
1	B	111	ASP	2.8
1	B	123	GLN	2.8
1	A	145	ARG	2.8
1	A	135	ALA	2.8
1	B	240	LEU	2.7
1	B	65	HIS	2.7
1	A	42	LEU	2.7
1	B	120	PRO	2.6
1	A	138	LYS	2.6
1	B	97	LEU	2.6
1	B	200	PHE	2.6
1	B	80	ALA	2.6
1	B	104	LEU	2.6
1	B	197	SER	2.5
1	B	223	HIS	2.5
1	A	100	GLY	2.5
1	B	177	TYR	2.5
1	B	79	ASP	2.5
1	A	336	GLN	2.5
1	B	218	LEU	2.5
1	A	50	GLN	2.5
1	A	209	ASN	2.5

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Mol	Chain	Res	Type	RSRZ
1	B	203	ILE	2.5
1	B	121	PRO	2.5
1	A	87	THR	2.5
1	B	275	HIS	2.5
1	B	78	GLU	2.5
1	A	62	ILE	2.5
1	A	39	PRO	2.4
1	A	206	MET	2.4
1	B	143	TYR	2.4
1	B	86	LYS	2.4
1	B	190	VAL	2.4
1	B	193	ASN	2.4
1	A	187	ASP	2.4
1	A	93	GLN	2.4
1	B	276	LEU	2.3
1	B	265	VAL	2.3
1	B	122	ARG	2.3
1	A	89	PHE	2.3
1	A	190	VAL	2.3
1	B	134	PRO	2.2
1	B	241	LEU	2.2
1	A	117	HIS	2.2
1	B	62	ILE	2.2
1	B	245	LEU	2.2
1	B	105	GLN	2.2
1	A	41	ARG	2.2
1	B	125	ASN	2.2
1	A	66	GLY	2.1
1	A	125	ASN	2.1
1	B	107	GLN	2.1
1	A	119	PHE	2.1
1	A	92	GLU	2.1
1	B	127	VAL	2.1
1	B	247	GLN	2.1
1	B	55	GLU	2.1
1	B	69	ASN	2.1
1	A	68	VAL	2.1
1	A	285	PHE	2.1
1	B	50	GLN	2.0
1	A	95	ALA	2.0
1	B	116	TYR	2.0
1	A	184	ALA	2.0

6.2 Non-standard residues in protein, DNA, RNA chains

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates

There are no carbohydrates in this entry.

6.4 Ligands

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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	RSR	LLDF	B-factors(\AA^2)	Q<0.9
2	PO4	A	601	5/5	0.10	-1.55	34,35,36,36	0
2	PO4	B	602	5/5	0.13	-2.23	32,33,34,35	0

6.5 Other polymers

There are no such residues in this entry.