



Full wwPDB X-ray Structure Validation Report ⓘ

Apr 25, 2026 – 12:05 PM EDT

PDB ID : 2XQ7 / pdb_00002xq7
Title : Pentameric ligand gated ion channel GLIC in complex with cadmium ion (Cd²⁺)
Authors : Hilf, R.J.C.; Bertozzi, C.; Zimmermann, I.; Reiter, A.; Trauner, D.; Dutzler, R.
Deposited on : 2010-09-01
Resolution : 3.40 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
Xtriage (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

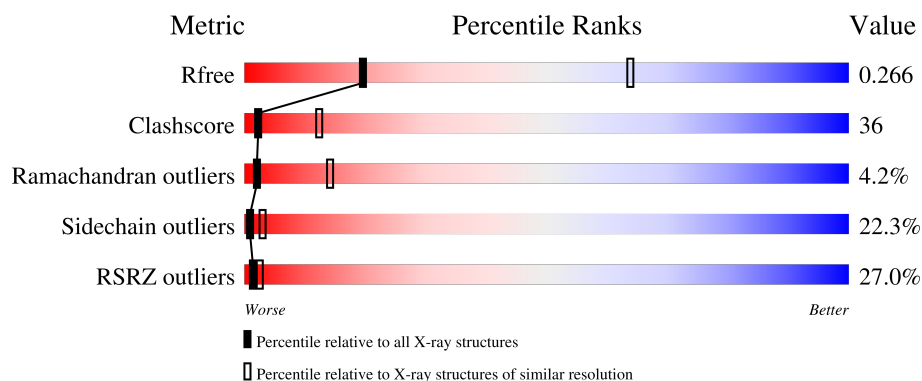
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.40 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	1001 (3.44-3.36)
Clashscore	190562	1022 (3.44-3.36)
Ramachandran outliers	187476	1012 (3.44-3.36)
Sidechain outliers	187428	1012 (3.44-3.36)
RSRZ outliers	180081	1001 (3.44-3.36)

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	317	26% 37% 44% 16% ..
1	B	317	25% 37% 44% 16% ..
1	C	317	29% 38% 43% 16% ..
1	D	317	26% 38% 43% 16% ..
1	E	317	26% 39% 42% 16% ..

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 12655 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 GLR4197 PROTEIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	310	Total	C	N	O	S	0	1	0
			2530	1667	404	455	4			
1	B	310	Total	C	N	O	S	0	1	0
			2530	1667	404	455	4			
1	C	310	Total	C	N	O	S	0	1	0
			2530	1667	404	455	4			
1	D	310	Total	C	N	O	S	0	1	0
			2530	1667	404	455	4			
1	E	310	Total	C	N	O	S	0	1	0
			2530	1667	404	455	4			

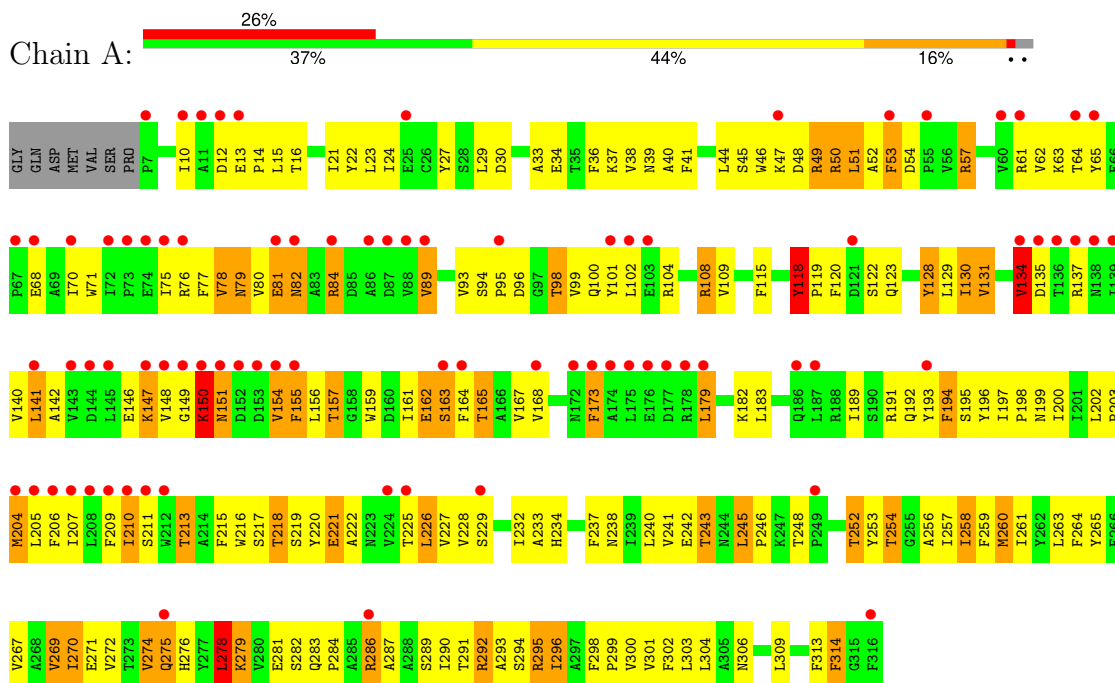
- Molecule 2 is CADMIUM ION (CCD ID: CD) (formula: Cd).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	3	Total	Cd	0	0
			3	3		
2	C	2	Total	Cd	0	0
			2	2		

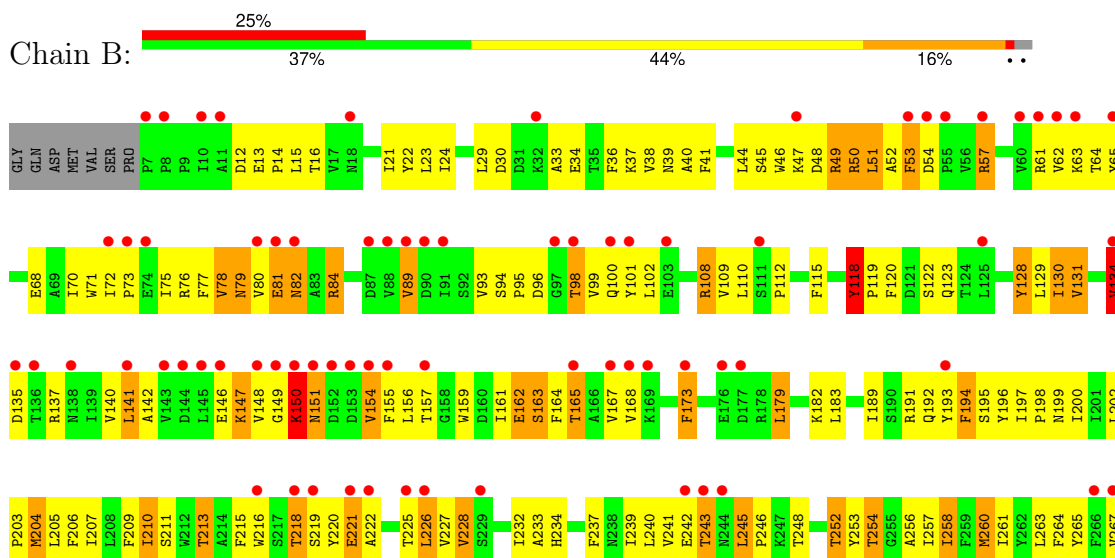
3 Residue-property plots

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: GLR4197 PROTEIN

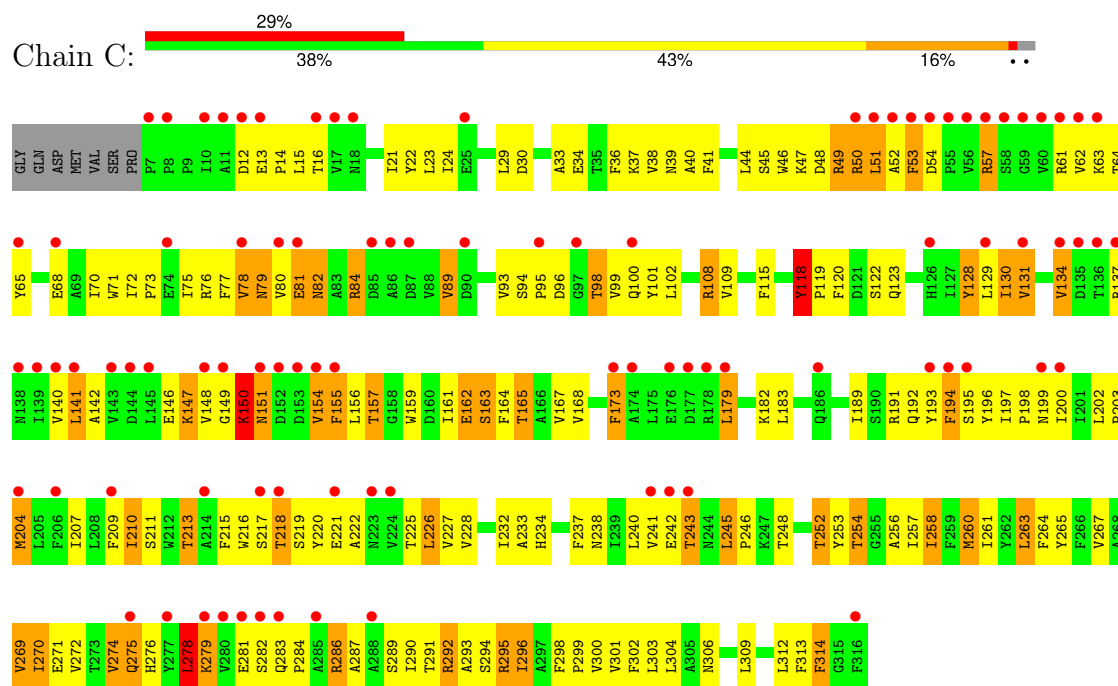


• Molecule 1: GLR4197 PROTEIN

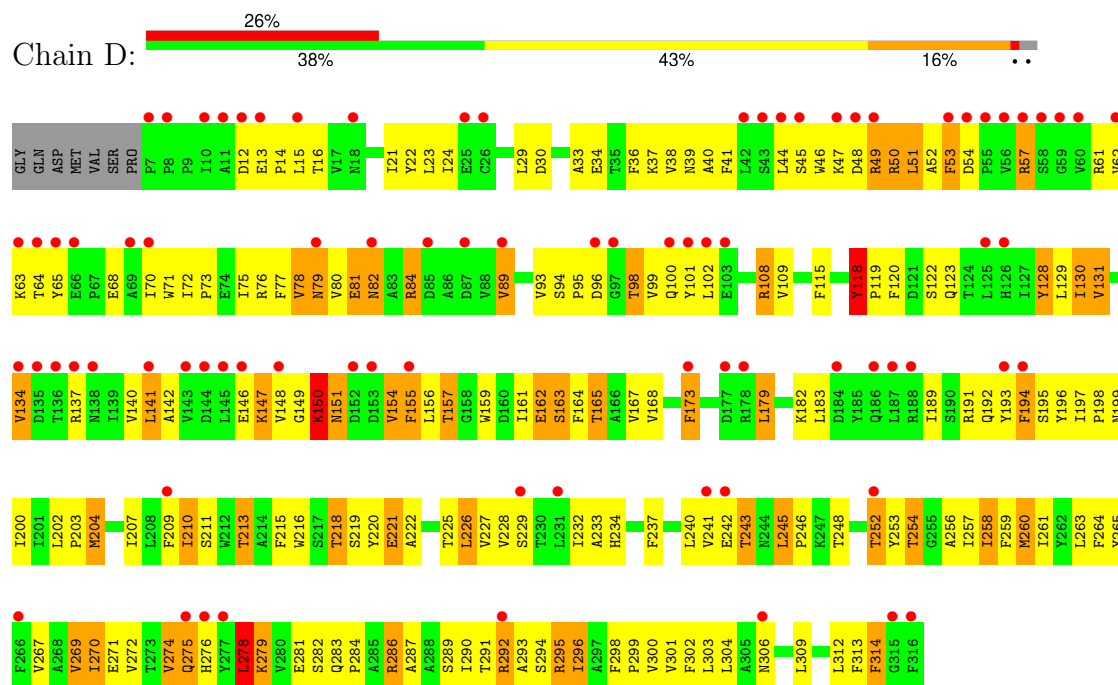




• Molecule 1: GLR4197 PROTEIN

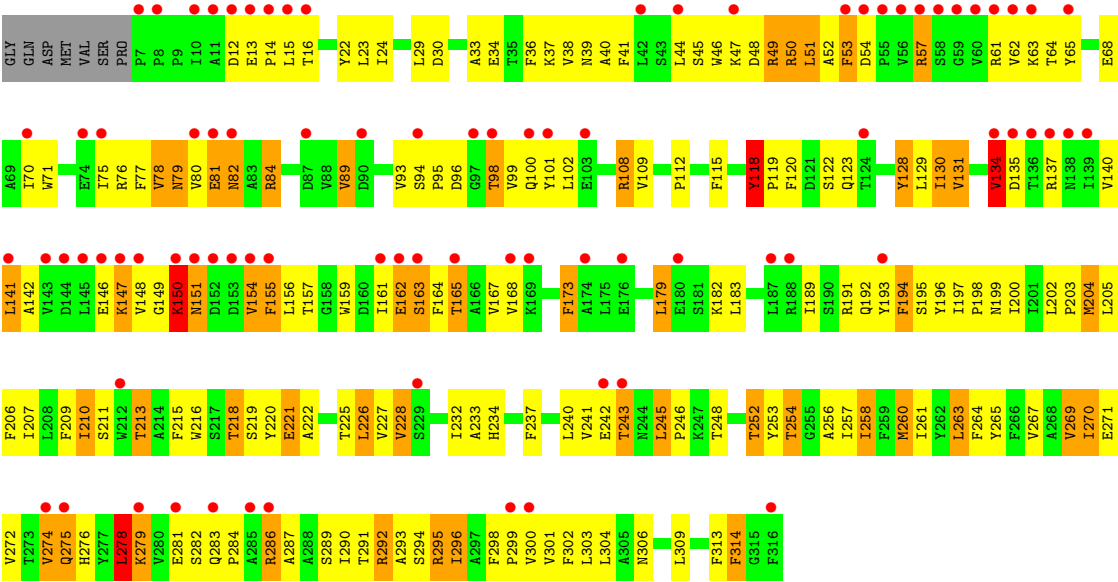


• Molecule 1: GLR4197 PROTEIN



• Molecule 1: GLR4197 PROTEIN





4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	183.31Å 128.31Å 164.37Å 90.00° 104.04° 90.00°	Depositor
Resolution (Å)	40.20 – 3.40 40.20 – 3.40	Depositor EDS
% Data completeness (in resolution range)	98.0 (40.20-3.40) 98.1 (40.20-3.40)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.06 (at 3.40Å)	Xtriage
Refinement program	PHENIX (PHENIX.REFINE)	Depositor
R, R_{free}	0.242 , 0.266 0.252 , 0.266	Depositor DCC
R_{free} test set	2555 reflections (5.03%)	wwPDB-VP
Wilson B-factor (Å ²)	93.1	Xtriage
Anisotropy	0.437	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.26 , 57.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.46$, $\langle L^2 \rangle = 0.29$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.88	EDS
Total number of atoms	12655	wwPDB-VP
Average B, all atoms (Å ²)	107.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.06% 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

5.1 Standard geometry

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

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	0.59	0/2598	1.00	11/3547 (0.3%)
1	B	0.59	0/2598	1.01	11/3547 (0.3%)
1	C	0.60	0/2598	1.01	10/3547 (0.3%)
1	D	0.59	0/2598	1.01	11/3547 (0.3%)
1	E	0.59	0/2598	1.01	11/3547 (0.3%)
All	All	0.59	0/12990	1.01	54/17735 (0.3%)

There are no bond length outliers.

All (54) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	281	GLU	N-CA-C	-7.66	98.47	109.96
1	E	281	GLU	N-CA-C	-7.51	98.70	109.96
1	A	281	GLU	N-CA-C	-7.21	99.14	109.96
1	D	281	GLU	N-CA-C	-7.10	99.31	109.96
1	D	24	ILE	N-CA-C	-6.99	106.25	112.12
1	C	24	ILE	N-CA-C	-6.98	106.25	112.12
1	A	24	ILE	N-CA-C	-6.98	106.26	112.12
1	B	24	ILE	N-CA-C	-6.97	106.27	112.12
1	E	24	ILE	N-CA-C	-6.93	106.30	112.12
1	D	128	TYR	N-CA-C	6.90	122.11	112.93
1	C	128	TYR	N-CA-C	6.89	122.10	112.93
1	B	128	TYR	N-CA-C	6.88	122.09	112.93
1	A	134	VAL	N-CA-CB	-6.85	99.92	111.23
1	E	134	VAL	N-CA-CB	-6.85	99.93	111.23
1	A	128	TYR	N-CA-C	6.85	122.04	112.93
1	B	134	VAL	N-CA-CB	-6.85	99.93	111.23
1	C	134	VAL	N-CA-CB	-6.85	99.93	111.23
1	D	134	VAL	N-CA-CB	-6.84	99.94	111.23
1	B	281	GLU	N-CA-C	-6.62	99.86	109.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	128	TYR	N-CA-C	6.42	121.02	111.96
1	A	53	PHE	N-CA-C	6.21	120.66	108.18
1	D	118	TYR	CA-C-N	-6.15	113.48	119.87
1	D	118	TYR	C-N-CA	-6.15	113.48	119.87
1	C	53	PHE	N-CA-C	6.12	120.48	108.18
1	D	53	PHE	N-CA-C	6.12	120.47	108.18
1	C	118	TYR	CA-C-N	-6.11	113.52	119.87
1	C	118	TYR	C-N-CA	-6.11	113.52	119.87
1	A	118	TYR	CA-C-N	-6.11	113.52	119.87
1	A	118	TYR	C-N-CA	-6.11	113.52	119.87
1	E	118	TYR	CA-C-N	-6.07	113.56	119.87
1	E	118	TYR	C-N-CA	-6.07	113.56	119.87
1	B	118	TYR	CA-C-N	-6.06	113.56	119.87
1	B	118	TYR	C-N-CA	-6.06	113.56	119.87
1	E	281	GLU	CB-CA-C	5.96	119.43	109.89
1	A	281	GLU	CB-CA-C	5.81	119.19	109.89
1	E	53	PHE	N-CA-C	5.74	119.72	108.18
1	D	281	GLU	CB-CA-C	5.65	118.93	109.89
1	B	53	PHE	N-CA-C	5.62	119.48	108.18
1	B	281	GLU	CB-CA-C	5.54	118.57	110.26
1	B	167	VAL	CB-CA-C	-5.32	105.49	111.23
1	D	167	VAL	CB-CA-C	-5.31	105.50	111.23
1	A	167	VAL	CB-CA-C	-5.30	105.50	111.23
1	C	167	VAL	CB-CA-C	-5.30	105.51	111.23
1	E	167	VAL	CB-CA-C	-5.25	105.56	111.23
1	D	168	VAL	N-CA-C	5.23	115.44	110.42
1	B	168	VAL	N-CA-C	5.20	115.42	110.42
1	A	168	VAL	N-CA-C	5.18	115.40	110.42
1	E	168	VAL	N-CA-C	5.18	115.40	110.42
1	C	168	VAL	N-CA-C	5.16	115.37	110.42
1	E	279	LYS	N-CA-C	-5.09	107.05	114.12
1	C	279	LYS	N-CA-C	-5.08	107.06	114.12
1	D	279	LYS	N-CA-C	-5.07	107.07	114.12
1	B	279	LYS	N-CA-C	-5.07	107.07	114.12
1	A	279	LYS	N-CA-C	-5.06	107.08	114.12

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	2530	0	2542	201	0
1	B	2530	0	2542	196	0
1	C	2530	0	2542	187	0
1	D	2530	0	2542	190	0
1	E	2530	0	2542	180	0
2	A	3	0	0	0	0
2	C	2	0	0	0	0
All	All	12655	0	12710	918	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 36.

All (918) 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:283:GLN:O	1:A:283:GLN:HG2	1.45	1.13
1:B:283:GLN:O	1:B:283:GLN:HG2	1.45	1.12
1:D:283:GLN:O	1:D:283:GLN:HG2	1.45	1.13
1:E:283:GLN:O	1:E:283:GLN:HG2	1.45	1.11
1:C:283:GLN:O	1:C:283:GLN:HG2	1.45	1.06
1:E:147:LYS:C	1:E:149:GLY:H	1.66	0.99
1:C:147:LYS:C	1:C:149:GLY:H	1.68	0.98
1:A:147:LYS:C	1:A:149:GLY:H	1.68	0.94
1:D:147:LYS:C	1:D:149:GLY:H	1.68	0.93
1:D:22:TYR:HA	1:D:149:GLY:HA3	1.51	0.93
1:B:22:TYR:HA	1:B:149:GLY:HA3	1.51	0.92
1:A:22:TYR:HA	1:A:149:GLY:HA3	1.51	0.92
1:B:147:LYS:C	1:B:149:GLY:H	1.69	0.92
1:C:22:TYR:HA	1:C:149:GLY:HA3	1.51	0.91
1:E:22:TYR:HA	1:E:149:GLY:HA3	1.55	0.88
1:C:13:GLU:HB3	1:C:14:PRO:HD2	1.56	0.88
1:E:13:GLU:HB3	1:E:14:PRO:HD2	1.56	0.88
1:D:13:GLU:HB3	1:D:14:PRO:HD2	1.56	0.88
1:B:13:GLU:HB3	1:B:14:PRO:HD2	1.56	0.86
1:A:13:GLU:HB3	1:A:14:PRO:HD2	1.56	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:278:LEU:HD21	1:D:286:ARG:HB3	1.59	0.85
1:E:22:TYR:HA	1:E:149:GLY:CA	2.07	0.84
1:B:278:LEU:HD21	1:B:286:ARG:HB3	1.59	0.84
1:B:22:TYR:HA	1:B:149:GLY:CA	2.07	0.84
1:D:22:TYR:HA	1:D:149:GLY:CA	2.07	0.84
1:A:278:LEU:HD21	1:A:286:ARG:HB3	1.59	0.83
1:C:278:LEU:HD21	1:C:286:ARG:HB3	1.59	0.83
1:A:22:TYR:HA	1:A:149:GLY:CA	2.07	0.83
1:E:278:LEU:HD21	1:E:286:ARG:HB3	1.59	0.83
1:C:22:TYR:HA	1:C:149:GLY:CA	2.07	0.83
1:D:147:LYS:C	1:D:149:GLY:N	2.40	0.79
1:A:283:GLN:O	1:A:283:GLN:CG	2.30	0.78
1:E:197:ILE:HB	1:E:198:PRO:HD3	1.65	0.78
1:C:13:GLU:HB3	1:C:14:PRO:CD	2.14	0.78
1:E:253:TYR:HA	1:E:313:PHE:CE2	2.19	0.78
1:D:253:TYR:HA	1:D:313:PHE:CE2	2.19	0.78
1:A:253:TYR:HA	1:A:313:PHE:CE2	2.19	0.77
1:B:253:TYR:HA	1:B:313:PHE:CE2	2.19	0.77
1:C:197:ILE:HB	1:C:198:PRO:HD3	1.65	0.77
1:A:197:ILE:HB	1:A:198:PRO:HD3	1.65	0.77
1:D:13:GLU:HB3	1:D:14:PRO:CD	2.14	0.77
1:B:13:GLU:HB3	1:B:14:PRO:CD	2.14	0.77
1:C:253:TYR:HA	1:C:313:PHE:CE2	2.19	0.77
1:D:197:ILE:HB	1:D:198:PRO:HD3	1.65	0.77
1:D:119:PRO:O	1:D:193:TYR:HB3	1.85	0.76
1:D:61:ARG:HG2	1:D:62:VAL:HG23	1.67	0.76
1:B:197:ILE:HB	1:B:198:PRO:HD3	1.65	0.76
1:B:77:PHE:H	1:B:84:ARG:HD3	1.51	0.76
1:B:119:PRO:O	1:B:193:TYR:HB3	1.85	0.76
1:C:119:PRO:O	1:C:193:TYR:HB3	1.85	0.76
1:D:314:PHE:HD1	1:D:314:PHE:N	1.84	0.76
1:E:314:PHE:N	1:E:314:PHE:HD1	1.84	0.76
1:A:61:ARG:HG2	1:A:62:VAL:HG23	1.68	0.76
1:E:119:PRO:O	1:E:193:TYR:HB3	1.85	0.76
1:A:119:PRO:O	1:A:193:TYR:HB3	1.85	0.75
1:C:147:LYS:C	1:C:149:GLY:N	2.40	0.75
1:A:13:GLU:HB3	1:A:14:PRO:CD	2.14	0.75
1:D:77:PHE:H	1:D:84:ARG:HD3	1.51	0.75
1:D:78:VAL:HG22	1:D:130:ILE:HG12	1.68	0.75
1:A:314:PHE:HD1	1:A:314:PHE:N	1.84	0.75
1:C:314:PHE:HD1	1:C:314:PHE:N	1.84	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:77:PHE:H	1:A:84:ARG:HD3	1.51	0.75
1:B:314:PHE:N	1:B:314:PHE:HD1	1.84	0.75
1:E:13:GLU:HB3	1:E:14:PRO:CD	2.14	0.74
1:A:78:VAL:HG22	1:A:130:ILE:HG12	1.68	0.74
1:E:253:TYR:HA	1:E:313:PHE:HE2	1.52	0.74
1:B:61:ARG:HG2	1:B:62:VAL:HG23	1.68	0.74
1:C:253:TYR:HA	1:C:313:PHE:HE2	1.52	0.74
1:E:78:VAL:HG22	1:E:130:ILE:HG12	1.68	0.74
1:A:147:LYS:C	1:A:149:GLY:N	2.40	0.74
1:E:61:ARG:HG2	1:E:62:VAL:HG23	1.68	0.74
1:E:77:PHE:H	1:E:84:ARG:HD3	1.51	0.74
1:C:61:ARG:HG2	1:C:62:VAL:HG23	1.68	0.73
1:B:253:TYR:HA	1:B:313:PHE:HE2	1.52	0.73
1:C:77:PHE:H	1:C:84:ARG:HD3	1.51	0.73
1:D:253:TYR:HA	1:D:313:PHE:HE2	1.52	0.73
1:B:78:VAL:HG22	1:B:130:ILE:HG12	1.68	0.73
1:C:13:GLU:OE1	1:C:14:PRO:HD3	1.89	0.73
1:E:314:PHE:N	1:E:314:PHE:CD1	2.57	0.73
1:A:253:TYR:HA	1:A:313:PHE:HE2	1.52	0.73
1:B:147:LYS:C	1:B:149:GLY:N	2.40	0.73
1:B:13:GLU:OE1	1:B:14:PRO:HD3	1.89	0.72
1:C:78:VAL:HG22	1:C:130:ILE:HG12	1.68	0.72
1:D:13:GLU:OE1	1:D:14:PRO:HD3	1.89	0.72
1:B:173:PHE:HZ	1:B:182:LYS:HE3	1.54	0.72
1:C:173:PHE:HZ	1:C:182:LYS:HE3	1.54	0.72
1:E:13:GLU:OE1	1:E:14:PRO:HD3	1.89	0.72
1:D:173:PHE:HZ	1:D:182:LYS:HE3	1.54	0.72
1:B:267:VAL:HG23	1:B:298:PHE:CZ	2.25	0.72
1:A:13:GLU:OE1	1:A:14:PRO:HD3	1.89	0.72
1:A:173:PHE:HZ	1:A:182:LYS:HE3	1.54	0.72
1:A:267:VAL:HG23	1:A:298:PHE:CZ	2.25	0.71
1:B:79:ASN:H	1:B:79:ASN:HD22	1.38	0.71
1:C:79:ASN:HD22	1:C:79:ASN:H	1.38	0.71
1:E:173:PHE:HZ	1:E:182:LYS:HE3	1.54	0.71
1:C:267:VAL:HG23	1:C:298:PHE:CZ	2.25	0.71
1:D:267:VAL:HG23	1:D:298:PHE:CZ	2.25	0.71
1:B:76:ARG:NH2	1:B:130:ILE:HD12	2.06	0.71
1:E:267:VAL:HG23	1:E:298:PHE:CZ	2.25	0.71
1:A:314:PHE:N	1:A:314:PHE:CD1	2.57	0.70
1:C:76:ARG:NH2	1:C:130:ILE:HD12	2.06	0.70
1:C:314:PHE:N	1:C:314:PHE:CD1	2.57	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:79:ASN:H	1:D:79:ASN:HD22	1.38	0.70
1:E:76:ARG:NH2	1:E:130:ILE:HD12	2.06	0.70
1:E:147:LYS:C	1:E:149:GLY:N	2.39	0.70
1:D:76:ARG:NH2	1:D:130:ILE:HD12	2.06	0.70
1:A:79:ASN:HD22	1:A:79:ASN:H	1.38	0.69
1:B:314:PHE:N	1:B:314:PHE:CD1	2.57	0.69
1:D:257:ILE:HG22	1:D:309:LEU:HD23	1.75	0.69
1:D:314:PHE:N	1:D:314:PHE:CD1	2.57	0.69
1:A:286:ARG:HG2	1:A:286:ARG:HH11	1.58	0.69
1:C:286:ARG:HH11	1:C:286:ARG:HG2	1.58	0.69
1:E:49:ARG:HB3	1:E:49:ARG:HH11	1.58	0.69
1:A:257:ILE:HG22	1:A:309:LEU:HD23	1.75	0.69
1:A:49:ARG:HH11	1:A:49:ARG:HB3	1.58	0.69
1:A:76:ARG:NH2	1:A:130:ILE:HD12	2.06	0.69
1:B:286:ARG:HG2	1:B:286:ARG:HH11	1.58	0.69
1:E:147:LYS:O	1:E:149:GLY:N	2.24	0.69
1:E:286:ARG:HG2	1:E:286:ARG:HH11	1.58	0.69
1:C:22:TYR:CD1	1:C:149:GLY:HA2	2.28	0.69
1:C:49:ARG:HH11	1:C:49:ARG:HB3	1.58	0.69
1:D:147:LYS:O	1:D:149:GLY:N	2.26	0.69
1:E:79:ASN:HD22	1:E:79:ASN:H	1.38	0.69
1:D:283:GLN:O	1:D:283:GLN:CG	2.30	0.68
1:B:22:TYR:CD1	1:B:149:GLY:HA2	2.28	0.68
1:C:283:GLN:HE21	1:C:286:ARG:HB2	1.58	0.68
1:E:257:ILE:HG22	1:E:309:LEU:HD23	1.75	0.68
1:E:283:GLN:HE21	1:E:286:ARG:HB2	1.58	0.68
1:A:283:GLN:HE21	1:A:286:ARG:HB2	1.58	0.68
1:B:49:ARG:HH11	1:B:49:ARG:HB3	1.58	0.68
1:C:257:ILE:HG22	1:C:309:LEU:HD23	1.75	0.68
1:A:147:LYS:O	1:A:149:GLY:N	2.26	0.68
1:B:147:LYS:O	1:B:149:GLY:N	2.26	0.68
1:C:147:LYS:O	1:C:149:GLY:N	2.26	0.68
1:D:286:ARG:HG2	1:D:286:ARG:HH11	1.58	0.68
1:B:257:ILE:HG22	1:B:309:LEU:HD23	1.75	0.68
1:D:22:TYR:CD1	1:D:149:GLY:HA2	2.28	0.68
1:D:283:GLN:HE21	1:D:286:ARG:HB2	1.58	0.67
1:A:22:TYR:CD1	1:A:149:GLY:HA2	2.28	0.67
1:A:283:GLN:NE2	1:A:286:ARG:HB2	2.10	0.67
1:D:245:LEU:HD12	1:D:246:PRO:HD2	1.77	0.67
1:B:283:GLN:NE2	1:B:286:ARG:HB2	2.10	0.66
1:D:49:ARG:HH11	1:D:49:ARG:HB3	1.58	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:283:GLN:NE2	1:D:286:ARG:HB2	2.10	0.66
1:B:227:VAL:HG11	1:B:269:VAL:HG23	1.77	0.66
1:C:227:VAL:HG11	1:C:269:VAL:HG23	1.77	0.66
1:E:245:LEU:HD12	1:E:246:PRO:HD2	1.77	0.66
1:C:245:LEU:HD12	1:C:246:PRO:HD2	1.77	0.66
1:E:283:GLN:NE2	1:E:286:ARG:HB2	2.10	0.66
1:E:227:VAL:HG11	1:E:269:VAL:HG23	1.77	0.66
1:A:245:LEU:HD12	1:A:246:PRO:HD2	1.77	0.66
1:B:245:LEU:HD12	1:B:246:PRO:HD2	1.77	0.66
1:C:274:VAL:C	1:C:276:HIS:H	2.04	0.66
1:B:283:GLN:HE21	1:B:286:ARG:HB2	1.58	0.65
1:A:157:THR:CG2	1:B:34:GLU:OE1	2.44	0.65
1:A:274:VAL:C	1:A:276:HIS:H	2.04	0.65
1:C:283:GLN:NE2	1:C:286:ARG:HB2	2.10	0.65
1:E:128:TYR:O	1:E:129:LEU:HB2	1.97	0.65
1:E:274:VAL:C	1:E:276:HIS:H	2.04	0.65
1:D:227:VAL:HG11	1:D:269:VAL:HG23	1.77	0.65
1:E:278:LEU:CD2	1:E:286:ARG:HB3	2.27	0.65
1:A:227:VAL:CG1	1:A:269:VAL:HG23	2.27	0.65
1:A:227:VAL:HG11	1:A:269:VAL:HG23	1.77	0.65
1:C:278:LEU:CD2	1:C:286:ARG:HB3	2.26	0.64
1:D:274:VAL:C	1:D:276:HIS:H	2.04	0.64
1:D:278:LEU:CD2	1:D:286:ARG:HB3	2.26	0.64
1:B:274:VAL:C	1:B:276:HIS:H	2.04	0.64
1:E:283:GLN:O	1:E:283:GLN:CG	2.30	0.64
1:C:227:VAL:CG1	1:C:269:VAL:HG23	2.27	0.64
1:D:141:LEU:HD23	1:D:142:ALA:H	1.62	0.64
1:D:227:VAL:CG1	1:D:269:VAL:HG23	2.27	0.64
1:B:278:LEU:CD2	1:B:286:ARG:HB3	2.27	0.64
1:B:227:VAL:CG1	1:B:269:VAL:HG23	2.27	0.64
1:A:278:LEU:CD2	1:A:286:ARG:HB3	2.26	0.64
1:C:128:TYR:O	1:C:129:LEU:HB2	1.97	0.64
1:E:227:VAL:CG1	1:E:269:VAL:HG23	2.27	0.64
1:A:141:LEU:HD23	1:A:142:ALA:H	1.62	0.63
1:E:141:LEU:HD23	1:E:142:ALA:H	1.62	0.63
1:C:141:LEU:HD23	1:C:142:ALA:H	1.62	0.63
1:B:141:LEU:HD23	1:B:142:ALA:H	1.62	0.63
1:B:128:TYR:O	1:B:129:LEU:HB2	1.97	0.63
1:E:22:TYR:CD1	1:E:149:GLY:HA2	2.32	0.63
1:A:128:TYR:O	1:A:129:LEU:HB2	1.97	0.63
1:A:155:PHE:CE1	1:B:112:PRO:HB3	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:79:ASN:H	1:B:79:ASN:ND2	1.98	0.62
1:C:286:ARG:HG2	1:C:286:ARG:NH1	2.14	0.62
1:B:115:PHE:O	1:B:252:THR:HG22	2.00	0.62
1:D:128:TYR:O	1:D:129:LEU:HB2	1.97	0.62
1:D:147:LYS:O	1:D:147:LYS:HG2	2.00	0.62
1:A:157:THR:HG21	1:B:34:GLU:OE1	2.00	0.62
1:B:242:GLU:O	1:B:242:GLU:HG2	2.00	0.62
1:B:286:ARG:HG2	1:B:286:ARG:NH1	2.14	0.62
1:C:79:ASN:H	1:C:79:ASN:ND2	1.98	0.61
1:C:115:PHE:O	1:C:252:THR:HG22	2.00	0.61
1:D:242:GLU:O	1:D:242:GLU:HG2	2.00	0.61
1:E:286:ARG:HG2	1:E:286:ARG:NH1	2.14	0.61
1:E:147:LYS:O	1:E:147:LYS:HG2	2.00	0.61
1:A:15:LEU:HD11	1:A:46:TRP:HB2	1.83	0.61
1:A:115:PHE:O	1:A:252:THR:HG22	2.00	0.61
1:B:49:ARG:HB3	1:B:49:ARG:NH1	2.15	0.61
1:E:84:ARG:CB	1:E:84:ARG:HH11	2.14	0.61
1:A:147:LYS:O	1:A:147:LYS:HG2	2.00	0.61
1:A:286:ARG:HG2	1:A:286:ARG:NH1	2.14	0.61
1:E:15:LEU:HD11	1:E:46:TRP:HB2	1.83	0.61
1:E:115:PHE:O	1:E:252:THR:HG22	2.00	0.61
1:C:84:ARG:HH11	1:C:84:ARG:CB	2.14	0.61
1:E:49:ARG:HB3	1:E:49:ARG:NH1	2.15	0.61
1:B:147:LYS:O	1:B:147:LYS:HG2	2.00	0.61
1:D:131:VAL:HG11	1:D:140:VAL:HG13	1.83	0.61
1:A:49:ARG:HB3	1:A:49:ARG:NH1	2.15	0.61
1:D:115:PHE:O	1:D:252:THR:HG22	2.00	0.61
1:E:79:ASN:H	1:E:79:ASN:ND2	1.98	0.61
1:A:242:GLU:HG2	1:A:242:GLU:O	2.00	0.61
1:B:84:ARG:CB	1:B:84:ARG:HH11	2.14	0.61
1:C:147:LYS:O	1:C:147:LYS:HG2	2.00	0.61
1:D:15:LEU:HD11	1:D:46:TRP:HB2	1.83	0.61
1:D:49:ARG:HB3	1:D:49:ARG:NH1	2.16	0.61
1:E:242:GLU:O	1:E:242:GLU:HG2	2.00	0.61
1:A:79:ASN:H	1:A:79:ASN:ND2	1.98	0.60
1:B:15:LEU:HD11	1:B:46:TRP:HB2	1.83	0.60
1:C:242:GLU:O	1:C:242:GLU:HG2	2.00	0.60
1:A:84:ARG:CB	1:A:84:ARG:HH11	2.14	0.60
1:D:286:ARG:HG2	1:D:286:ARG:NH1	2.14	0.60
1:C:15:LEU:HD11	1:C:46:TRP:HB2	1.83	0.60
1:C:131:VAL:HG11	1:C:140:VAL:HG13	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:131:VAL:HG11	1:A:140:VAL:HG13	1.83	0.60
1:B:23:LEU:HA	1:B:40:ALA:HB2	1.83	0.60
1:A:53:PHE:CE2	1:A:94:SER:C	2.80	0.60
1:D:23:LEU:HA	1:D:40:ALA:HB2	1.83	0.60
1:C:49:ARG:HB3	1:C:49:ARG:NH1	2.15	0.60
1:A:23:LEU:HA	1:A:40:ALA:HB2	1.83	0.59
1:B:131:VAL:HG11	1:B:140:VAL:HG13	1.82	0.59
1:D:84:ARG:CB	1:D:84:ARG:HH11	2.14	0.59
1:E:131:VAL:HG11	1:E:140:VAL:HG13	1.83	0.59
1:B:298:PHE:HB2	1:B:299:PRO:HD3	1.84	0.59
1:D:298:PHE:HB2	1:D:299:PRO:HD3	1.84	0.59
1:E:23:LEU:HA	1:E:40:ALA:HB2	1.83	0.59
1:C:23:LEU:HA	1:C:40:ALA:HB2	1.83	0.59
1:C:54:ASP:HB2	1:C:57:ARG:HG3	1.85	0.59
1:A:298:PHE:HB2	1:A:299:PRO:HD3	1.84	0.59
1:B:283:GLN:O	1:B:283:GLN:CG	2.30	0.59
1:C:151:ASN:O	1:C:154:VAL:HG22	2.03	0.59
1:D:79:ASN:H	1:D:79:ASN:ND2	1.98	0.59
1:D:151:ASN:O	1:D:154:VAL:HG22	2.03	0.59
1:C:267:VAL:HG23	1:C:298:PHE:HZ	1.68	0.59
1:E:151:ASN:O	1:E:154:VAL:HG22	2.03	0.58
1:C:298:PHE:HB2	1:C:299:PRO:HD3	1.84	0.58
1:E:298:PHE:HB2	1:E:299:PRO:HD3	1.84	0.58
1:A:84:ARG:NH1	1:A:84:ARG:HB2	2.19	0.58
1:D:84:ARG:NH1	1:D:84:ARG:HB2	2.19	0.58
1:B:254:THR:O	1:B:258:ILE:HB	2.04	0.58
1:C:84:ARG:HB2	1:C:84:ARG:NH1	2.19	0.58
1:D:254:THR:O	1:D:258:ILE:HB	2.04	0.58
1:A:151:ASN:O	1:A:154:VAL:HG22	2.03	0.58
1:A:276:HIS:C	1:A:278:LEU:H	2.12	0.58
1:B:44:LEU:HB2	1:B:101:TYR:HB3	1.86	0.58
1:E:22:TYR:HA	1:E:149:GLY:HA2	1.86	0.58
1:E:267:VAL:HG23	1:E:298:PHE:HZ	1.68	0.58
1:B:276:HIS:C	1:B:278:LEU:H	2.12	0.58
1:D:54:ASP:HB2	1:D:57:ARG:HG3	1.85	0.58
1:E:44:LEU:HB2	1:E:101:TYR:HB3	1.86	0.58
1:E:141:LEU:HD23	1:E:142:ALA:N	2.19	0.58
1:E:254:THR:O	1:E:258:ILE:HB	2.04	0.58
1:A:44:LEU:HB2	1:A:101:TYR:HB3	1.86	0.58
1:B:84:ARG:NH1	1:B:84:ARG:HB2	2.19	0.58
1:B:141:LEU:HD23	1:B:142:ALA:N	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:141:LEU:HD23	1:C:142:ALA:N	2.19	0.58
1:D:89:VAL:CG1	1:D:102:LEU:HD23	2.34	0.58
1:D:276:HIS:C	1:D:278:LEU:H	2.12	0.58
1:B:89:VAL:CG1	1:B:102:LEU:HD23	2.34	0.58
1:A:89:VAL:CG1	1:A:102:LEU:HD23	2.34	0.57
1:C:276:HIS:C	1:C:278:LEU:H	2.12	0.57
1:C:254:THR:O	1:C:258:ILE:HB	2.04	0.57
1:E:89:VAL:CG1	1:E:102:LEU:HD23	2.34	0.57
1:E:276:HIS:C	1:E:278:LEU:H	2.12	0.57
1:A:141:LEU:HD23	1:A:142:ALA:N	2.19	0.57
1:B:54:ASP:HB2	1:B:57:ARG:HG3	1.85	0.57
1:B:151:ASN:O	1:B:154:VAL:HG22	2.03	0.57
1:B:267:VAL:HG23	1:B:298:PHE:HZ	1.68	0.57
1:D:141:LEU:HD23	1:D:142:ALA:N	2.19	0.57
1:C:89:VAL:CG1	1:C:102:LEU:HD23	2.34	0.57
1:C:159:TRP:CE3	1:C:189:ILE:HD12	2.39	0.57
1:D:159:TRP:CE3	1:D:189:ILE:HD12	2.40	0.57
1:E:84:ARG:HB2	1:E:84:ARG:NH1	2.19	0.57
1:A:202:LEU:HB2	1:A:203:PRO:HD3	1.87	0.57
1:A:254:THR:O	1:A:258:ILE:HB	2.04	0.57
1:B:202:LEU:HB2	1:B:203:PRO:HD3	1.87	0.57
1:C:44:LEU:HB2	1:C:101:TYR:HB3	1.86	0.57
1:D:202:LEU:HB2	1:D:203:PRO:HD3	1.87	0.57
1:A:54:ASP:HB2	1:A:57:ARG:HG3	1.85	0.57
1:B:159:TRP:CE3	1:B:189:ILE:HD12	2.40	0.57
1:E:54:ASP:HB2	1:E:57:ARG:HG3	1.84	0.57
1:E:159:TRP:CE3	1:E:189:ILE:HD12	2.40	0.57
1:A:267:VAL:HG23	1:A:298:PHE:HZ	1.68	0.57
1:B:47:LYS:HD2	1:B:49:ARG:NH2	2.20	0.57
1:D:44:LEU:HB2	1:D:101:TYR:HB3	1.86	0.57
1:A:240:LEU:HD22	1:B:239:ILE:HG12	1.87	0.56
1:E:149:GLY:O	1:E:150:LYS:HB2	2.05	0.56
1:A:159:TRP:CE3	1:A:189:ILE:HD12	2.40	0.56
1:A:298:PHE:CB	1:A:299:PRO:HD3	2.35	0.56
1:C:75:ILE:HD13	1:C:131:VAL:HB	1.87	0.56
1:C:202:LEU:HB2	1:C:203:PRO:HD3	1.87	0.56
1:B:204:MET:HE3	1:B:261:ILE:HD12	1.88	0.56
1:D:47:LYS:HD2	1:D:49:ARG:NH2	2.20	0.56
1:D:204:MET:HE3	1:D:261:ILE:HD12	1.88	0.56
1:B:298:PHE:CB	1:B:299:PRO:HD3	2.35	0.56
1:C:179:LEU:C	1:C:179:LEU:HD12	2.31	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:298:PHE:CB	1:D:299:PRO:HD3	2.36	0.56
1:E:75:ILE:HD13	1:E:131:VAL:HB	1.87	0.56
1:A:47:LYS:HD2	1:A:49:ARG:NH2	2.20	0.56
1:C:286:ARG:O	1:C:289:SER:HB3	2.06	0.56
1:B:75:ILE:HD13	1:B:131:VAL:HB	1.87	0.56
1:C:120:PHE:CE2	1:C:193:TYR:CD2	2.94	0.56
1:C:47:LYS:HD2	1:C:49:ARG:NH2	2.20	0.56
1:E:202:LEU:HB2	1:E:203:PRO:HD3	1.87	0.56
1:A:76:ARG:NH2	1:A:130:ILE:CD1	2.69	0.56
1:E:47:LYS:HD2	1:E:49:ARG:NH2	2.20	0.56
1:B:286:ARG:O	1:B:289:SER:HB3	2.06	0.55
1:C:76:ARG:NH2	1:C:130:ILE:CD1	2.69	0.55
1:E:286:ARG:O	1:E:289:SER:HB3	2.06	0.55
1:A:286:ARG:O	1:A:289:SER:HB3	2.06	0.55
1:D:286:ARG:O	1:D:289:SER:HB3	2.06	0.55
1:E:76:ARG:NH2	1:E:130:ILE:CD1	2.69	0.55
1:B:76:ARG:NH2	1:B:130:ILE:CD1	2.69	0.55
1:D:75:ILE:HD13	1:D:131:VAL:HB	1.88	0.55
1:D:120:PHE:CE2	1:D:193:TYR:CD2	2.95	0.55
1:E:179:LEU:C	1:E:179:LEU:HD12	2.31	0.55
1:E:298:PHE:CB	1:E:299:PRO:HD3	2.36	0.55
1:B:65:TYR:CD2	1:B:70:ILE:HD11	2.42	0.55
1:C:298:PHE:CB	1:C:299:PRO:HD3	2.36	0.55
1:D:179:LEU:HD12	1:D:179:LEU:C	2.31	0.55
1:E:222:ALA:O	1:E:226:LEU:HB2	2.07	0.55
1:E:260:MET:HE2	1:E:309:LEU:HD22	1.89	0.55
1:A:65:TYR:CD2	1:A:70:ILE:HD11	2.42	0.55
1:A:75:ILE:HD13	1:A:131:VAL:HB	1.87	0.55
1:B:179:LEU:HD12	1:B:179:LEU:C	2.31	0.55
1:C:222:ALA:O	1:C:226:LEU:HB2	2.07	0.55
1:D:222:ALA:O	1:D:226:LEU:HB2	2.07	0.55
1:A:120:PHE:CE2	1:A:193:TYR:CD2	2.94	0.55
1:A:200:ILE:HD11	1:A:240:LEU:HD23	1.89	0.55
1:B:120:PHE:CE2	1:B:193:TYR:CD2	2.94	0.55
1:B:260:MET:HE2	1:B:309:LEU:HD22	1.89	0.55
1:A:260:MET:HE2	1:A:309:LEU:HD22	1.89	0.55
1:C:204:MET:HE3	1:C:261:ILE:HD12	1.88	0.55
1:E:204:MET:HE3	1:E:261:ILE:HD12	1.88	0.55
1:A:229:SER:CB	1:B:228:VAL:HG11	2.37	0.55
1:D:76:ARG:NH2	1:D:130:ILE:CD1	2.69	0.55
1:A:179:LEU:C	1:A:179:LEU:HD12	2.31	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:197:ILE:CB	1:B:198:PRO:HD3	2.37	0.55
1:C:215:PHE:HB2	1:C:216:TRP:CZ3	2.42	0.55
1:D:65:TYR:CD2	1:D:70:ILE:HD11	2.42	0.55
1:D:215:PHE:HB2	1:D:216:TRP:CZ3	2.42	0.55
1:E:65:TYR:CD2	1:E:70:ILE:HD11	2.42	0.55
1:A:215:PHE:HB2	1:A:216:TRP:CZ3	2.42	0.54
1:C:29:LEU:HB2	1:C:156:LEU:HD11	1.90	0.54
1:E:29:LEU:HB2	1:E:156:LEU:HD11	1.89	0.54
1:B:200:ILE:HD11	1:B:240:LEU:HD23	1.89	0.54
1:C:65:TYR:CD2	1:C:70:ILE:HD11	2.42	0.54
1:E:120:PHE:CE2	1:E:193:TYR:CD2	2.94	0.54
1:C:197:ILE:CB	1:C:198:PRO:HD3	2.37	0.54
1:D:53:PHE:CE2	1:D:94:SER:C	2.85	0.54
1:D:155:PHE:CE1	1:E:112:PRO:HB3	2.41	0.54
1:A:204:MET:HE3	1:A:261:ILE:HD12	1.88	0.54
1:B:222:ALA:O	1:B:226:LEU:HB2	2.07	0.54
1:B:215:PHE:HB2	1:B:216:TRP:CZ3	2.42	0.54
1:C:53:PHE:CE2	1:C:94:SER:C	2.85	0.54
1:C:260:MET:HE2	1:C:309:LEU:HD22	1.89	0.54
1:A:222:ALA:O	1:A:226:LEU:HB2	2.07	0.54
1:D:149:GLY:O	1:D:164:PHE:HD1	1.91	0.54
1:D:267:VAL:HG23	1:D:298:PHE:HZ	1.68	0.54
1:E:89:VAL:HG11	1:E:102:LEU:HD23	1.90	0.54
1:A:29:LEU:HB2	1:A:156:LEU:HD11	1.89	0.54
1:B:149:GLY:O	1:B:164:PHE:HD1	1.91	0.54
1:C:53:PHE:O	1:C:54:ASP:C	2.51	0.54
1:C:149:GLY:O	1:C:164:PHE:HD1	1.91	0.54
1:E:215:PHE:HB2	1:E:216:TRP:CZ3	2.42	0.54
1:C:241:VAL:C	1:C:243:THR:H	2.16	0.54
1:A:191:ARG:HG3	1:A:192:GLN:N	2.23	0.54
1:A:197:ILE:CB	1:A:198:PRO:HD3	2.37	0.54
1:A:149:GLY:O	1:A:164:PHE:HD1	1.91	0.54
1:D:29:LEU:HB2	1:D:156:LEU:HD11	1.90	0.54
1:D:260:MET:HE2	1:D:309:LEU:HD22	1.89	0.54
1:A:241:VAL:C	1:A:243:THR:H	2.16	0.53
1:D:89:VAL:HG11	1:D:102:LEU:HD23	1.90	0.53
1:A:13:GLU:CB	1:A:14:PRO:CD	2.86	0.53
1:C:200:ILE:HD11	1:C:240:LEU:HD23	1.89	0.53
1:D:200:ILE:HD11	1:D:240:LEU:HD23	1.89	0.53
1:A:53:PHE:O	1:A:54:ASP:C	2.50	0.53
1:B:29:LEU:HB2	1:B:156:LEU:HD11	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:191:ARG:HG3	1:B:192:GLN:N	2.23	0.53
1:D:197:ILE:CB	1:D:198:PRO:HD3	2.37	0.53
1:E:200:ILE:HD11	1:E:240:LEU:HD23	1.89	0.53
1:D:241:VAL:C	1:D:243:THR:H	2.16	0.53
1:E:191:ARG:HG3	1:E:192:GLN:N	2.23	0.53
1:B:89:VAL:HG11	1:B:102:LEU:HD23	1.90	0.53
1:C:191:ARG:HG3	1:C:192:GLN:N	2.23	0.53
1:C:89:VAL:HG11	1:C:102:LEU:HD23	1.90	0.53
1:D:53:PHE:O	1:D:54:ASP:C	2.50	0.53
1:D:191:ARG:HG3	1:D:192:GLN:N	2.23	0.53
1:E:197:ILE:CB	1:E:198:PRO:HD3	2.37	0.53
1:D:218:THR:HG22	1:D:279:LYS:HE2	1.91	0.53
1:E:53:PHE:O	1:E:54:ASP:C	2.52	0.53
1:E:128:TYR:O	1:E:183:LEU:O	2.27	0.53
1:E:241:VAL:C	1:E:243:THR:H	2.16	0.53
1:A:221[A]:GLU:OE2	1:B:221[A]:GLU:CD	2.53	0.52
1:B:218:THR:HG22	1:B:279:LYS:HE2	1.91	0.52
1:B:241:VAL:C	1:B:243:THR:H	2.16	0.52
1:D:267:VAL:HA	1:D:270:ILE:HB	1.92	0.52
1:A:89:VAL:HG11	1:A:102:LEU:HD23	1.90	0.52
1:C:218:THR:HG22	1:C:279:LYS:HE2	1.91	0.52
1:D:194:PHE:C	1:D:196:TYR:N	2.65	0.52
1:C:217:SER:HG	1:D:220:TYR:HE2	1.50	0.52
1:B:53:PHE:O	1:B:54:ASP:C	2.53	0.52
1:A:218:THR:HG22	1:A:279:LYS:HE2	1.91	0.52
1:E:13:GLU:CB	1:E:14:PRO:CD	2.86	0.52
1:E:253:TYR:HD1	1:E:313:PHE:CD2	2.28	0.52
1:B:194:PHE:C	1:B:196:TYR:N	2.65	0.51
1:C:207:ILE:HD11	1:C:234:HIS:HB2	1.92	0.51
1:D:157:THR:CG2	1:E:34:GLU:OE1	2.58	0.51
1:D:22:TYR:HA	1:D:149:GLY:HA2	1.91	0.51
1:A:267:VAL:HA	1:A:270:ILE:HB	1.92	0.51
1:D:13:GLU:CB	1:D:14:PRO:CD	2.86	0.51
1:E:194:PHE:C	1:E:196:TYR:N	2.65	0.51
1:A:194:PHE:C	1:A:196:TYR:N	2.65	0.51
1:C:37:LYS:HG2	1:C:108:ARG:HB2	1.92	0.51
1:C:267:VAL:HA	1:C:270:ILE:HB	1.91	0.51
1:B:207:ILE:HD11	1:B:234:HIS:HB2	1.92	0.51
1:C:253:TYR:HD1	1:C:313:PHE:CD2	2.28	0.51
1:A:207:ILE:HD11	1:A:234:HIS:HB2	1.92	0.51
1:B:253:TYR:HD1	1:B:313:PHE:CD2	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:274:VAL:C	1:D:276:HIS:N	2.69	0.51
1:A:253:TYR:HD1	1:A:313:PHE:CD2	2.28	0.51
1:B:37:LYS:HG2	1:B:108:ARG:HB2	1.92	0.51
1:A:274:VAL:C	1:A:276:HIS:N	2.69	0.51
1:C:84:ARG:CB	1:C:84:ARG:NH1	2.74	0.51
1:B:267:VAL:HA	1:B:270:ILE:HB	1.92	0.51
1:E:218:THR:HG22	1:E:279:LYS:HE2	1.91	0.51
1:A:84:ARG:CB	1:A:84:ARG:NH1	2.74	0.51
1:B:13:GLU:CB	1:B:14:PRO:CD	2.86	0.50
1:D:84:ARG:CB	1:D:84:ARG:NH1	2.74	0.50
1:D:253:TYR:HD1	1:D:313:PHE:CD2	2.28	0.50
1:E:207:ILE:HD11	1:E:234:HIS:HB2	1.92	0.50
1:E:37:LYS:HG2	1:E:108:ARG:HB2	1.93	0.50
1:E:65:TYR:CG	1:E:70:ILE:HD11	2.47	0.50
1:B:274:VAL:C	1:B:276:HIS:N	2.69	0.50
1:A:65:TYR:CG	1:A:70:ILE:HD11	2.47	0.50
1:B:65:TYR:CG	1:B:70:ILE:HD11	2.47	0.50
1:D:37:LYS:HG2	1:D:108:ARG:HB2	1.92	0.50
1:A:37:LYS:HG2	1:A:108:ARG:HB2	1.92	0.50
1:C:194:PHE:C	1:C:196:TYR:N	2.65	0.50
1:D:207:ILE:HD11	1:D:234:HIS:HB2	1.92	0.50
1:E:267:VAL:HA	1:E:270:ILE:HB	1.92	0.50
1:A:22:TYR:HA	1:A:149:GLY:HA2	1.91	0.50
1:B:94:SER:OG	1:B:95:PRO:HD2	2.12	0.50
1:C:222:ALA:HB2	1:D:221[B]:GLU:HG2	1.91	0.50
1:C:274:VAL:C	1:C:276:HIS:N	2.69	0.50
1:E:84:ARG:CB	1:E:84:ARG:NH1	2.74	0.50
1:B:179:LEU:C	1:B:179:LEU:CD1	2.85	0.50
1:C:65:TYR:CG	1:C:70:ILE:HD11	2.47	0.50
1:E:179:LEU:C	1:E:179:LEU:CD1	2.85	0.50
1:A:283:GLN:N	1:A:284:PRO:HD3	2.27	0.50
1:C:179:LEU:C	1:C:179:LEU:CD1	2.85	0.50
1:C:261:ILE:O	1:C:265:TYR:HD1	1.95	0.50
1:C:13:GLU:CB	1:C:14:PRO:CD	2.86	0.50
1:D:157:THR:HG21	1:E:34:GLU:OE1	2.12	0.50
1:A:27:TYR:CB	1:B:110:LEU:HD11	2.42	0.49
1:C:215:PHE:HB2	1:C:216:TRP:CE3	2.47	0.49
1:D:283:GLN:N	1:D:284:PRO:HD3	2.27	0.49
1:A:179:LEU:C	1:A:179:LEU:CD1	2.85	0.49
1:B:84:ARG:CB	1:B:84:ARG:NH1	2.74	0.49
1:B:261:ILE:O	1:B:265:TYR:HD1	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:283:GLN:N	1:B:284:PRO:HD3	2.27	0.49
1:C:94:SER:OG	1:C:95:PRO:HD2	2.12	0.49
1:D:94:SER:OG	1:D:95:PRO:HD2	2.12	0.49
1:D:179:LEU:C	1:D:179:LEU:CD1	2.85	0.49
1:E:283:GLN:N	1:E:284:PRO:HD3	2.27	0.49
1:C:217:SER:OG	1:D:220:TYR:HE2	1.93	0.49
1:D:65:TYR:CG	1:D:70:ILE:HD11	2.47	0.49
1:D:215:PHE:HB2	1:D:216:TRP:CE3	2.47	0.49
1:A:173:PHE:CZ	1:A:182:LYS:HE3	2.43	0.49
1:A:128:TYR:O	1:A:183:LEU:O	2.31	0.49
1:B:215:PHE:HB2	1:B:216:TRP:CE3	2.47	0.49
1:C:22:TYR:HA	1:C:149:GLY:HA2	1.91	0.49
1:C:256:ALA:HB1	1:C:309:LEU:HD21	1.95	0.49
1:D:261:ILE:O	1:D:265:TYR:HD1	1.95	0.49
1:E:215:PHE:HB2	1:E:216:TRP:CE3	2.47	0.49
1:E:173:PHE:CZ	1:E:182:LYS:HE3	2.43	0.49
1:A:94:SER:OG	1:A:95:PRO:HD2	2.12	0.49
1:C:215:PHE:HZ	1:C:298:PHE:CE1	2.31	0.49
1:E:94:SER:OG	1:E:95:PRO:HD2	2.12	0.49
1:E:147:LYS:HE2	1:E:165:THR:HA	1.95	0.49
1:A:53:PHE:CZ	1:A:95:PRO:N	2.81	0.49
1:B:128:TYR:O	1:B:183:LEU:O	2.31	0.49
1:B:215:PHE:HZ	1:B:298:PHE:CE1	2.31	0.49
1:C:173:PHE:CZ	1:C:182:LYS:HE3	2.43	0.49
1:D:147:LYS:HE2	1:D:165:THR:HA	1.95	0.49
1:E:70:ILE:HG22	1:E:71:TRP:N	2.28	0.49
1:E:256:ALA:HB1	1:E:309:LEU:HD21	1.95	0.49
1:A:215:PHE:HB2	1:A:216:TRP:CE3	2.47	0.49
1:A:256:ALA:HB1	1:A:309:LEU:HD21	1.94	0.49
1:C:70:ILE:HG22	1:C:71:TRP:N	2.28	0.49
1:B:70:ILE:HG22	1:B:71:TRP:N	2.28	0.48
1:B:36:PHE:CE1	1:B:109:VAL:HB	2.49	0.48
1:B:147:LYS:HE2	1:B:165:THR:HA	1.95	0.48
1:C:36:PHE:CE1	1:C:109:VAL:HB	2.48	0.48
1:C:48:ASP:O	1:C:51:LEU:HD23	2.14	0.48
1:C:283:GLN:N	1:C:284:PRO:HD3	2.27	0.48
1:D:256:ALA:HB1	1:D:309:LEU:HD21	1.95	0.48
1:A:104:ARG:HD2	1:B:76:ARG:HH11	1.78	0.48
1:D:48:ASP:O	1:D:51:LEU:HD23	2.14	0.48
1:D:215:PHE:HZ	1:D:298:PHE:CE1	2.31	0.48
1:E:261:ILE:O	1:E:265:TYR:HD1	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:221[B]:GLU:HG2	1:E:222:ALA:HB2	1.94	0.48
1:B:256:ALA:HB1	1:B:309:LEU:HD21	1.95	0.48
1:C:264:PHE:HE2	1:C:302:PHE:CA	2.26	0.48
1:D:128:TYR:O	1:D:183:LEU:O	2.31	0.48
1:A:70:ILE:HG22	1:A:71:TRP:N	2.28	0.48
1:A:120:PHE:HE2	1:A:193:TYR:CD2	2.32	0.48
1:A:259:PHE:CZ	1:E:202:LEU:HD12	2.49	0.48
1:D:287:ALA:C	1:D:289:SER:H	2.22	0.48
1:E:48:ASP:O	1:E:51:LEU:HD23	2.14	0.48
1:E:287:ALA:C	1:E:289:SER:H	2.22	0.48
1:C:287:ALA:C	1:C:289:SER:H	2.22	0.48
1:D:264:PHE:HE2	1:D:302:PHE:CA	2.26	0.48
1:A:147:LYS:HE2	1:A:165:THR:HA	1.95	0.48
1:A:261:ILE:O	1:A:265:TYR:HD1	1.95	0.48
1:C:38:VAL:HG22	1:C:39:ASN:N	2.29	0.48
1:C:283:GLN:O	1:C:283:GLN:CG	2.30	0.48
1:D:36:PHE:CE1	1:D:109:VAL:HB	2.48	0.48
1:D:120:PHE:HE2	1:D:193:TYR:CD2	2.32	0.48
1:E:36:PHE:CE1	1:E:109:VAL:HB	2.49	0.48
1:A:36:PHE:CE1	1:A:109:VAL:HB	2.48	0.48
1:A:131:VAL:CG1	1:A:140:VAL:HG13	2.44	0.48
1:D:229:SER:CB	1:E:228:VAL:HG11	2.44	0.48
1:E:120:PHE:HE2	1:E:193:TYR:CD2	2.32	0.48
1:B:131:VAL:CG1	1:B:140:VAL:HG13	2.44	0.48
1:C:147:LYS:HE2	1:C:165:THR:HA	1.95	0.48
1:E:215:PHE:HZ	1:E:298:PHE:CE1	2.31	0.48
1:E:264:PHE:HE2	1:E:302:PHE:CA	2.26	0.48
1:A:27:TYR:CG	1:B:110:LEU:HD11	2.49	0.47
1:A:215:PHE:HZ	1:A:298:PHE:CE1	2.31	0.47
1:B:173:PHE:CZ	1:B:182:LYS:HE3	2.43	0.47
1:C:128:TYR:O	1:C:183:LEU:O	2.31	0.47
1:A:216:TRP:CH2	1:A:295:ARG:HB3	2.49	0.47
1:B:38:VAL:HG22	1:B:39:ASN:N	2.28	0.47
1:B:264:PHE:HE2	1:B:302:PHE:CA	2.26	0.47
1:C:157:THR:CG2	1:D:34:GLU:OE1	2.62	0.47
1:D:149:GLY:O	1:D:150:LYS:HB2	2.14	0.47
1:D:209:PHE:O	1:D:210:ILE:C	2.58	0.47
1:D:216:TRP:CH2	1:D:295:ARG:HB3	2.49	0.47
1:E:38:VAL:HG22	1:E:39:ASN:N	2.29	0.47
1:A:149:GLY:O	1:A:150:LYS:HB2	2.14	0.47
1:C:209:PHE:O	1:C:210:ILE:C	2.58	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:38:VAL:HG22	1:D:39:ASN:N	2.29	0.47
1:D:131:VAL:CG1	1:D:140:VAL:HG13	2.44	0.47
1:E:131:VAL:CG1	1:E:140:VAL:HG13	2.44	0.47
1:C:120:PHE:HE2	1:C:193:TYR:CD2	2.32	0.47
1:D:70:ILE:HG22	1:D:71:TRP:N	2.28	0.47
1:A:38:VAL:HG22	1:A:39:ASN:N	2.29	0.47
1:A:48:ASP:O	1:A:51:LEU:HD23	2.14	0.47
1:A:217:SER:OG	1:B:220:TYR:CE2	2.67	0.47
1:B:48:ASP:O	1:B:51:LEU:HD23	2.14	0.47
1:B:209:PHE:O	1:B:210:ILE:C	2.58	0.47
1:B:287:ALA:C	1:B:289:SER:H	2.22	0.47
1:D:81:GLU:HG3	1:D:108:ARG:HG2	1.97	0.47
1:E:216:TRP:CH2	1:E:295:ARG:HB3	2.49	0.47
1:A:209:PHE:O	1:A:210:ILE:C	2.58	0.47
1:A:221[B]:GLU:HB2	1:B:221[B]:GLU:OE2	2.15	0.47
1:B:149:GLY:O	1:B:150:LYS:HB2	2.14	0.47
1:B:216:TRP:CH2	1:B:295:ARG:HB3	2.49	0.47
1:A:33:ALA:O	1:A:34:GLU:HB2	2.15	0.47
1:A:81:GLU:HG3	1:A:108:ARG:HG2	1.97	0.47
1:A:155:PHE:CZ	1:B:112:PRO:HB3	2.50	0.47
1:C:33:ALA:O	1:C:34:GLU:HB2	2.15	0.47
1:C:149:GLY:O	1:C:150:LYS:HB2	2.14	0.47
1:C:216:TRP:CH2	1:C:295:ARG:HB3	2.50	0.47
1:A:219:SER:OG	1:A:222:ALA:HB3	2.15	0.47
1:A:264:PHE:HE2	1:A:302:PHE:CA	2.26	0.47
1:B:219:SER:OG	1:B:222:ALA:HB3	2.15	0.47
1:A:34:GLU:OE1	1:E:155:PHE:CZ	2.68	0.46
1:B:22:TYR:HA	1:B:149:GLY:HA2	1.91	0.46
1:D:173:PHE:CZ	1:D:182:LYS:HE3	2.43	0.46
1:A:222:ALA:HB2	1:B:221[B]:GLU:HG2	1.97	0.46
1:A:287:ALA:C	1:A:289:SER:H	2.22	0.46
1:C:131:VAL:CG1	1:C:140:VAL:HG13	2.44	0.46
1:C:219:SER:OG	1:C:222:ALA:HB3	2.15	0.46
1:C:245:LEU:HD12	1:C:245:LEU:HA	1.77	0.46
1:E:147:LYS:O	1:E:147:LYS:CG	2.64	0.46
1:C:81:GLU:HG3	1:C:108:ARG:HG2	1.97	0.46
1:B:33:ALA:O	1:B:34:GLU:HB2	2.15	0.46
1:C:202:LEU:HD12	1:D:259:PHE:CZ	2.50	0.46
1:E:263:LEU:HD12	1:E:263:LEU:HA	1.67	0.46
1:C:199:ASN:O	1:C:200:ILE:HD13	2.16	0.46
1:D:291:THR:O	1:D:295:ARG:HG3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:199:ASN:O	1:E:200:ILE:HD13	2.16	0.46
1:E:291:THR:O	1:E:295:ARG:HG3	2.16	0.46
1:A:27:TYR:HB3	1:B:110:LEU:HD11	1.98	0.46
1:A:210:ILE:O	1:A:213:THR:HB	2.16	0.46
1:B:210:ILE:O	1:B:213:THR:HB	2.16	0.46
1:C:217:SER:OG	1:D:220:TYR:CE2	2.60	0.46
1:A:75:ILE:CD1	1:A:131:VAL:HB	2.45	0.46
1:A:199:ASN:O	1:A:200:ILE:HD13	2.16	0.46
1:B:291:THR:O	1:B:295:ARG:HG3	2.16	0.46
1:D:84:ARG:HH11	1:D:84:ARG:HB3	1.81	0.46
1:E:204:MET:HE2	1:E:204:MET:HB3	1.78	0.46
1:A:217:SER:OG	1:B:220:TYR:HE2	1.99	0.46
1:C:147:LYS:C	1:C:147:LYS:HD3	2.41	0.46
1:D:33:ALA:O	1:D:34:GLU:HB2	2.15	0.46
1:D:219:SER:OG	1:D:222:ALA:HB3	2.15	0.46
1:D:147:LYS:C	1:D:147:LYS:HD3	2.41	0.46
1:E:33:ALA:O	1:E:34:GLU:HB2	2.15	0.46
1:E:75:ILE:CD1	1:E:131:VAL:HB	2.45	0.46
1:E:209:PHE:O	1:E:210:ILE:C	2.58	0.46
1:A:147:LYS:C	1:A:147:LYS:HD3	2.41	0.46
1:A:229:SER:HB3	1:B:228:VAL:CG1	2.45	0.46
1:B:81:GLU:HG3	1:B:108:ARG:HG2	1.97	0.46
1:B:120:PHE:HE2	1:B:193:TYR:CD2	2.32	0.46
1:D:314:PHE:HD1	1:D:314:PHE:H	1.62	0.46
1:E:81:GLU:HG3	1:E:108:ARG:HG2	1.97	0.46
1:E:219:SER:OG	1:E:222:ALA:HB3	2.15	0.46
1:B:204:MET:HE2	1:B:204:MET:HB3	1.78	0.45
1:B:253:TYR:CA	1:B:313:PHE:HE2	2.27	0.45
1:C:276:HIS:C	1:C:278:LEU:N	2.74	0.45
1:E:119:PRO:HD3	1:E:254:THR:OG1	2.16	0.45
1:E:147:LYS:C	1:E:147:LYS:HD3	2.41	0.45
1:B:147:LYS:C	1:B:147:LYS:HD3	2.41	0.45
1:C:75:ILE:CD1	1:C:131:VAL:HB	2.45	0.45
1:D:75:ILE:CD1	1:D:131:VAL:HB	2.46	0.45
1:D:199:ASN:O	1:D:200:ILE:HD13	2.16	0.45
1:E:118:TYR:CE2	1:E:196:TYR:HE2	2.35	0.45
1:E:276:HIS:C	1:E:278:LEU:N	2.74	0.45
1:C:84:ARG:HH11	1:C:84:ARG:HB3	1.81	0.45
1:C:291:THR:O	1:C:295:ARG:HG3	2.16	0.45
1:A:147:LYS:O	1:A:147:LYS:CG	2.64	0.45
1:A:291:THR:O	1:A:295:ARG:HG3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:79:ASN:ND2	1:B:128:TYR:HB2	2.32	0.45
1:D:276:HIS:C	1:D:278:LEU:N	2.74	0.45
1:B:75:ILE:CD1	1:B:131:VAL:HB	2.45	0.45
1:B:199:ASN:O	1:B:200:ILE:HD13	2.16	0.45
1:C:79:ASN:ND2	1:C:128:TYR:HB2	2.32	0.45
1:D:119:PRO:HD3	1:D:254:THR:OG1	2.16	0.45
1:B:162:GLU:O	1:B:163:SER:HB3	2.17	0.45
1:B:281:GLU:O	1:B:283:GLN:N	2.43	0.45
1:D:62:VAL:HG13	1:D:93:VAL:O	2.16	0.45
1:D:77:PHE:CG	1:D:84:ARG:HD2	2.52	0.45
1:D:210:ILE:O	1:D:213:THR:HB	2.16	0.45
1:E:79:ASN:ND2	1:E:128:TYR:HB2	2.32	0.45
1:A:62:VAL:HG13	1:A:93:VAL:O	2.16	0.45
1:B:147:LYS:O	1:B:147:LYS:CG	2.64	0.45
1:C:275:GLN:O	1:C:275:GLN:HG2	2.17	0.45
1:E:51:LEU:HD23	1:E:51:LEU:N	2.32	0.45
1:E:210:ILE:O	1:E:213:THR:HB	2.16	0.45
1:A:259:PHE:CE1	1:E:202:LEU:HD12	2.52	0.45
1:B:77:PHE:CG	1:B:84:ARG:HD2	2.52	0.45
1:D:51:LEU:HD23	1:D:51:LEU:N	2.32	0.45
1:E:162:GLU:O	1:E:163:SER:HB3	2.17	0.45
1:E:274:VAL:C	1:E:276:HIS:N	2.69	0.45
1:A:118:TYR:CE2	1:A:196:TYR:HE2	2.35	0.45
1:A:276:HIS:C	1:A:278:LEU:N	2.74	0.45
1:B:51:LEU:HD23	1:B:51:LEU:N	2.32	0.45
1:B:137:ARG:HA	1:B:137:ARG:HD3	1.61	0.45
1:B:314:PHE:HD1	1:B:314:PHE:H	1.62	0.45
1:C:119:PRO:HD3	1:C:254:THR:OG1	2.16	0.45
1:E:77:PHE:CG	1:E:84:ARG:HD2	2.52	0.45
1:A:162:GLU:O	1:A:163:SER:HB3	2.17	0.45
1:C:62:VAL:HG13	1:C:93:VAL:O	2.16	0.45
1:C:118:TYR:CE2	1:C:196:TYR:HE2	2.35	0.45
1:C:147:LYS:O	1:C:147:LYS:CG	2.64	0.45
1:E:78:VAL:CG2	1:E:128:TYR:HB3	2.47	0.45
1:E:195:SER:O	1:E:199:ASN:HB2	2.18	0.44
1:A:195:SER:O	1:A:199:ASN:HB2	2.18	0.44
1:B:62:VAL:HG13	1:B:93:VAL:O	2.16	0.44
1:C:77:PHE:CG	1:C:84:ARG:HD2	2.52	0.44
1:D:118:TYR:CE2	1:D:196:TYR:HE2	2.35	0.44
1:E:62:VAL:HG13	1:E:93:VAL:O	2.16	0.44
1:A:79:ASN:ND2	1:A:128:TYR:HB2	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:253:TYR:CA	1:A:313:PHE:HE2	2.27	0.44
1:B:118:TYR:CE2	1:B:196:TYR:HE2	2.35	0.44
1:B:119:PRO:HD3	1:B:254:THR:OG1	2.17	0.44
1:E:275:GLN:O	1:E:275:GLN:HG2	2.17	0.44
1:E:292:ARG:HD2	1:E:292:ARG:O	2.18	0.44
1:A:77:PHE:CG	1:A:84:ARG:HD2	2.52	0.44
1:A:314:PHE:HD1	1:A:314:PHE:H	1.62	0.44
1:D:79:ASN:ND2	1:D:128:TYR:HB2	2.32	0.44
1:D:162:GLU:O	1:D:163:SER:HB3	2.17	0.44
1:A:51:LEU:HD23	1:A:51:LEU:N	2.32	0.44
1:A:104:ARG:HD2	1:B:76:ARG:NH1	2.32	0.44
1:C:210:ILE:O	1:C:213:THR:HB	2.16	0.44
1:A:119:PRO:HD3	1:A:254:THR:OG1	2.16	0.44
1:C:51:LEU:HD23	1:C:51:LEU:N	2.32	0.44
1:C:292:ARG:HD2	1:C:292:ARG:O	2.18	0.44
1:E:233:ALA:O	1:E:237:PHE:HD1	2.01	0.44
1:A:275:GLN:O	1:A:275:GLN:HG2	2.17	0.44
1:B:275:GLN:HG2	1:B:275:GLN:O	2.17	0.44
1:C:183:LEU:HD23	1:C:183:LEU:HA	1.85	0.44
1:C:296:ILE:HD13	1:C:296:ILE:HA	1.66	0.44
1:D:233:ALA:O	1:D:237:PHE:HD1	2.01	0.44
1:A:204:MET:HE2	1:A:204:MET:HB3	1.78	0.44
1:B:159:TRP:CD2	1:B:189:ILE:HD12	2.53	0.44
1:B:276:HIS:C	1:B:278:LEU:N	2.74	0.44
1:D:221[A]:GLU:OE2	1:E:221[A]:GLU:CD	2.61	0.44
1:E:149:GLY:O	1:E:164:PHE:HD1	2.01	0.44
1:A:155:PHE:HB3	1:A:156:LEU:H	1.65	0.44
1:B:84:ARG:HH11	1:B:84:ARG:HB3	1.81	0.44
1:B:292:ARG:HD2	1:B:292:ARG:O	2.18	0.44
1:C:195:SER:O	1:C:199:ASN:HB2	2.18	0.44
1:D:147:LYS:O	1:D:147:LYS:CG	2.64	0.44
1:D:292:ARG:HD2	1:D:292:ARG:O	2.18	0.44
1:A:233:ALA:O	1:A:237:PHE:HD1	2.01	0.43
1:B:78:VAL:HG23	1:B:128:TYR:HB3	2.00	0.43
1:C:22:TYR:CG	1:C:149:GLY:HA2	2.53	0.43
1:D:275:GLN:O	1:D:275:GLN:HG2	2.17	0.43
1:E:159:TRP:CD2	1:E:189:ILE:HD12	2.53	0.43
1:B:62:VAL:HG12	1:B:63:LYS:N	2.33	0.43
1:D:195:SER:O	1:D:199:ASN:HB2	2.18	0.43
1:A:292:ARG:HD2	1:A:292:ARG:O	2.18	0.43
1:B:219:SER:O	1:B:220:TYR:C	2.62	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:286:ARG:HH11	1:C:286:ARG:CG	2.29	0.43
1:E:78:VAL:HG23	1:E:128:TYR:HB3	2.00	0.43
1:D:219:SER:O	1:D:220:TYR:C	2.62	0.43
1:E:84:ARG:HH11	1:E:84:ARG:HB3	1.81	0.43
1:A:22:TYR:CG	1:A:149:GLY:HA2	2.53	0.43
1:A:44:LEU:HD23	1:A:44:LEU:HA	1.82	0.43
1:B:233:ALA:O	1:B:237:PHE:HD1	2.01	0.43
1:E:296:ILE:HD13	1:E:296:ILE:HA	1.66	0.43
1:B:89:VAL:HG12	1:B:102:LEU:HD23	2.01	0.43
1:C:62:VAL:HG12	1:C:63:LYS:N	2.33	0.43
1:C:219:SER:O	1:C:220:TYR:C	2.62	0.43
1:E:137:ARG:HD2	1:E:179:LEU:HG	2.01	0.43
1:D:137:ARG:HA	1:D:137:ARG:HD3	1.61	0.43
1:B:22:TYR:CG	1:B:149:GLY:HA2	2.53	0.43
1:C:53:PHE:CZ	1:C:95:PRO:N	2.87	0.43
1:C:233:ALA:O	1:C:237:PHE:HD1	2.01	0.43
1:E:253:TYR:CA	1:E:313:PHE:HE2	2.27	0.43
1:A:62:VAL:HG12	1:A:63:LYS:N	2.33	0.43
1:A:159:TRP:CD2	1:A:189:ILE:HD12	2.53	0.43
1:B:134:VAL:HB	1:B:135:ASP:H	1.61	0.43
1:C:29:LEU:C	1:C:29:LEU:HD23	2.44	0.43
1:C:159:TRP:CD2	1:C:189:ILE:HD12	2.53	0.43
1:D:22:TYR:CG	1:D:149:GLY:HA2	2.53	0.43
1:D:53:PHE:CZ	1:D:95:PRO:N	2.87	0.43
1:D:72:ILE:HA	1:D:73:PRO:HD3	1.84	0.43
1:E:219:SER:O	1:E:220:TYR:C	2.62	0.43
1:A:78:VAL:HG23	1:A:128:TYR:HB3	2.00	0.43
1:B:195:SER:O	1:B:199:ASN:HB2	2.18	0.43
1:C:96:ASP:OD1	1:C:98:THR:HB	2.19	0.43
1:D:89:VAL:HG12	1:D:102:LEU:HD23	2.00	0.43
1:D:151:ASN:HD22	1:D:151:ASN:HA	1.66	0.43
1:E:89:VAL:HG12	1:E:102:LEU:HD23	2.00	0.43
1:A:290:ILE:HG22	1:A:291:THR:N	2.34	0.42
1:A:296:ILE:HD13	1:A:296:ILE:HA	1.66	0.42
1:D:137:ARG:HD2	1:D:179:LEU:HG	2.01	0.42
1:E:294:SER:C	1:E:296:ILE:H	2.27	0.42
1:A:53:PHE:CZ	1:A:93:VAL:O	2.72	0.42
1:A:84:ARG:HH11	1:A:84:ARG:HB3	1.81	0.42
1:A:216:TRP:CZ2	1:A:295:ARG:HB3	2.54	0.42
1:A:219:SER:O	1:A:220:TYR:C	2.62	0.42
1:D:96:ASP:OD1	1:D:98:THR:HB	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:30:ASP:HB3	1:E:33:ALA:HB3	2.02	0.42
1:A:173:PHE:HZ	1:A:182:LYS:CE	2.29	0.42
1:A:294:SER:C	1:A:296:ILE:H	2.28	0.42
1:D:30:ASP:HB3	1:D:33:ALA:HB3	2.02	0.42
1:D:216:TRP:CZ2	1:D:295:ARG:HB3	2.55	0.42
1:A:34:GLU:OE1	1:E:155:PHE:HZ	2.02	0.42
1:A:229:SER:HB2	1:B:228:VAL:HG11	2.00	0.42
1:B:22:TYR:HB3	1:B:41:PHE:HB2	2.02	0.42
1:B:30:ASP:HB3	1:B:33:ALA:HB3	2.02	0.42
1:C:30:ASP:HB3	1:C:33:ALA:HB3	2.02	0.42
1:C:227:VAL:HG12	1:C:269:VAL:HG23	2.01	0.42
1:D:78:VAL:HG23	1:D:128:TYR:HB3	2.00	0.42
1:D:183:LEU:HD23	1:D:183:LEU:HA	1.85	0.42
1:E:216:TRP:CZ2	1:E:295:ARG:HB3	2.54	0.42
1:E:290:ILE:HG22	1:E:291:THR:N	2.34	0.42
1:E:314:PHE:HD1	1:E:314:PHE:H	1.62	0.42
1:A:29:LEU:C	1:A:29:LEU:HD23	2.44	0.42
1:A:137:ARG:HD2	1:A:179:LEU:HG	2.01	0.42
1:B:44:LEU:HA	1:B:44:LEU:HD23	1.82	0.42
1:B:72:ILE:HA	1:B:73:PRO:HD3	1.84	0.42
1:B:293:ALA:O	1:B:294:SER:C	2.63	0.42
1:B:294:SER:C	1:B:296:ILE:H	2.27	0.42
1:C:155:PHE:HB3	1:C:156:LEU:H	1.65	0.42
1:C:162:GLU:O	1:C:163:SER:HB3	2.17	0.42
1:D:53:PHE:CZ	1:D:93:VAL:O	2.72	0.42
1:E:96:ASP:OD1	1:E:98:THR:HB	2.19	0.42
1:E:173:PHE:HZ	1:E:182:LYS:CE	2.29	0.42
1:B:29:LEU:HD23	1:B:29:LEU:C	2.44	0.42
1:C:22:TYR:HB3	1:C:41:PHE:HB2	2.01	0.42
1:C:78:VAL:HG23	1:C:128:TYR:HB3	2.00	0.42
1:C:222:ALA:HB2	1:D:221[B]:GLU:HA	2.02	0.42
1:D:29:LEU:HD23	1:D:29:LEU:C	2.44	0.42
1:D:62:VAL:HG12	1:D:63:LYS:N	2.33	0.42
1:D:123:GLN:HA	1:D:123:GLN:NE2	2.35	0.42
1:D:159:TRP:CD2	1:D:189:ILE:HD12	2.53	0.42
1:E:52:ALA:HA	1:E:95:PRO:O	2.19	0.42
1:A:151:ASN:HD22	1:A:151:ASN:HA	1.66	0.42
1:B:290:ILE:HG22	1:B:291:THR:N	2.34	0.42
1:C:216:TRP:CZ2	1:C:295:ARG:HB3	2.55	0.42
1:E:62:VAL:HG12	1:E:63:LYS:N	2.33	0.42
1:E:227:VAL:HG12	1:E:269:VAL:HG23	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:52:ALA:HA	1:B:95:PRO:O	2.19	0.42
1:B:286:ARG:HH11	1:B:286:ARG:CG	2.29	0.42
1:B:312:LEU:HD12	1:B:312:LEU:HA	1.87	0.42
1:C:53:PHE:CZ	1:C:93:VAL:O	2.72	0.42
1:C:294:SER:C	1:C:296:ILE:H	2.27	0.42
1:D:78:VAL:CG2	1:D:128:TYR:HB3	2.50	0.42
1:D:286:ARG:HH11	1:D:286:ARG:CG	2.29	0.42
1:E:22:TYR:HB3	1:E:41:PHE:HB2	2.02	0.42
1:E:29:LEU:C	1:E:29:LEU:HD23	2.44	0.42
1:E:271:GLU:OE2	1:E:272:VAL:N	2.53	0.42
1:E:293:ALA:O	1:E:294:SER:C	2.63	0.42
1:A:52:ALA:HA	1:A:95:PRO:O	2.20	0.42
1:A:53:PHE:CZ	1:A:94:SER:C	2.98	0.42
1:C:194:PHE:C	1:C:196:TYR:H	2.28	0.42
1:C:293:ALA:O	1:C:294:SER:C	2.63	0.42
1:D:22:TYR:HB3	1:D:41:PHE:HB2	2.01	0.42
1:D:294:SER:C	1:D:296:ILE:H	2.27	0.42
1:A:89:VAL:HG12	1:A:102:LEU:HD23	2.00	0.42
1:A:271:GLU:OE2	1:A:272:VAL:N	2.53	0.42
1:B:216:TRP:CZ2	1:B:295:ARG:HB3	2.54	0.42
1:C:161:ILE:HA	1:C:189:ILE:HG22	2.02	0.42
1:C:271:GLU:OE2	1:C:272:VAL:N	2.53	0.42
1:D:76:ARG:HH22	1:D:130:ILE:CD1	2.33	0.42
1:D:161:ILE:HA	1:D:189:ILE:HG22	2.02	0.42
1:D:290:ILE:HG22	1:D:291:THR:N	2.34	0.42
1:A:78:VAL:CG2	1:A:128:TYR:HB3	2.50	0.41
1:B:80:VAL:HG12	1:B:81:GLU:N	2.35	0.41
1:B:96:ASP:OD1	1:B:98:THR:HB	2.19	0.41
1:B:123:GLN:NE2	1:B:123:GLN:HA	2.35	0.41
1:B:264:PHE:HZ	1:B:301:VAL:HG12	1.85	0.41
1:B:271:GLU:OE2	1:B:272:VAL:N	2.53	0.41
1:C:120:PHE:HE2	1:C:193:TYR:CE2	2.38	0.41
1:D:52:ALA:HA	1:D:95:PRO:O	2.20	0.41
1:E:53:PHE:O	1:E:53:PHE:CD1	2.73	0.41
1:A:30:ASP:HB3	1:A:33:ALA:HB3	2.02	0.41
1:A:134:VAL:HB	1:A:135:ASP:H	1.62	0.41
1:B:137:ARG:HD2	1:B:179:LEU:HG	2.01	0.41
1:D:80:VAL:HG12	1:D:81:GLU:N	2.35	0.41
1:A:286:ARG:HH11	1:A:286:ARG:CG	2.29	0.41
1:B:53:PHE:O	1:B:53:PHE:CD1	2.73	0.41
1:B:78:VAL:CG2	1:B:128:TYR:HB3	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:312:LEU:HD12	1:C:312:LEU:HA	1.87	0.41
1:A:205:LEU:O	1:A:206:PHE:C	2.63	0.41
1:C:52:ALA:HA	1:C:95:PRO:O	2.20	0.41
1:C:80:VAL:HG12	1:C:81:GLU:N	2.35	0.41
1:C:89:VAL:HG12	1:C:102:LEU:HD23	2.00	0.41
1:C:137:ARG:HD2	1:C:179:LEU:HG	2.01	0.41
1:C:290:ILE:HG22	1:C:291:THR:N	2.34	0.41
1:D:293:ALA:O	1:D:294:SER:C	2.63	0.41
1:D:296:ILE:HD13	1:D:296:ILE:HA	1.66	0.41
1:D:312:LEU:HD12	1:D:312:LEU:HA	1.87	0.41
1:E:22:TYR:CG	1:E:149:GLY:HA2	2.55	0.41
1:E:120:PHE:HE2	1:E:193:TYR:CE2	2.39	0.41
1:B:227:VAL:HG12	1:B:269:VAL:HG23	2.02	0.41
1:C:21:ILE:O	1:C:149:GLY:HA3	2.21	0.41
1:C:78:VAL:CG2	1:C:128:TYR:HB3	2.50	0.41
1:C:123:GLN:HA	1:C:123:GLN:NE2	2.35	0.41
1:C:263:LEU:HD12	1:C:263:LEU:HA	1.67	0.41
1:D:80:VAL:HG12	1:D:82:ASN:O	2.21	0.41
1:D:264:PHE:HZ	1:D:301:VAL:HG12	1.85	0.41
1:A:96:ASP:OD1	1:A:98:THR:HB	2.19	0.41
1:A:264:PHE:HZ	1:A:301:VAL:HG12	1.85	0.41
1:A:293:ALA:O	1:A:294:SER:C	2.63	0.41
1:B:76:ARG:HH22	1:B:130:ILE:CD1	2.33	0.41
1:B:80:VAL:HG12	1:B:82:ASN:O	2.21	0.41
1:B:120:PHE:HE2	1:B:193:TYR:CE2	2.39	0.41
1:D:120:PHE:HE2	1:D:193:TYR:CE2	2.39	0.41
1:D:215:PHE:HB3	1:D:295:ARG:HG2	2.03	0.41
1:E:123:GLN:NE2	1:E:123:GLN:HA	2.35	0.41
1:E:134:VAL:HB	1:E:135:ASP:H	1.61	0.41
1:A:53:PHE:O	1:A:53:PHE:CD1	2.74	0.41
1:B:205:LEU:O	1:B:206:PHE:C	2.63	0.41
1:D:21:ILE:O	1:D:149:GLY:HA3	2.20	0.41
1:A:21:ILE:O	1:A:149:GLY:HA3	2.21	0.41
1:A:76:ARG:HH22	1:A:130:ILE:CD1	2.33	0.41
1:A:80:VAL:HG12	1:A:81:GLU:N	2.35	0.41
1:B:21:ILE:O	1:B:149:GLY:HA3	2.21	0.41
1:D:202:LEU:HD23	1:D:202:LEU:HA	1.83	0.41
1:A:80:VAL:HG12	1:A:82:ASN:O	2.21	0.41
1:A:123:GLN:HA	1:A:123:GLN:NE2	2.35	0.41
1:B:215:PHE:HB3	1:B:295:ARG:HG2	2.03	0.41
1:C:49:ARG:H	1:C:49:ARG:HG2	1.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:80:VAL:HG12	1:C:82:ASN:O	2.21	0.41
1:C:204:MET:HE2	1:C:204:MET:HB3	1.78	0.41
1:C:237:PHE:O	1:C:238:ASN:C	2.64	0.41
1:D:54:ASP:HB2	1:D:57:ARG:CG	2.50	0.41
1:D:270:ILE:HD13	1:D:270:ILE:HA	1.73	0.41
1:D:271:GLU:OE2	1:D:272:VAL:N	2.53	0.41
1:E:205:LEU:O	1:E:206:PHE:C	2.63	0.41
1:E:264:PHE:HZ	1:E:301:VAL:HG12	1.85	0.41
1:A:10:ILE:H	1:A:10:ILE:HG13	1.56	0.41
1:A:227:VAL:HG12	1:A:269:VAL:HG23	2.01	0.41
1:B:151:ASN:HD22	1:B:151:ASN:HA	1.66	0.41
1:D:275:GLN:HG3	1:D:291:THR:OG1	2.21	0.40
1:E:54:ASP:HB2	1:E:57:ARG:CG	2.50	0.40
1:E:80:VAL:HG12	1:E:82:ASN:O	2.21	0.40
1:E:215:PHE:HB3	1:E:295:ARG:HG2	2.03	0.40
1:A:237:PHE:O	1:A:238:ASN:C	2.64	0.40
1:A:275:GLN:HG3	1:A:291:THR:OG1	2.21	0.40
1:B:183:LEU:HD23	1:B:183:LEU:HA	1.85	0.40
1:C:53:PHE:O	1:C:53:PHE:CD1	2.74	0.40
1:C:222:ALA:HB2	1:D:221[A]:GLU:HA	2.04	0.40
1:C:314:PHE:HD1	1:C:314:PHE:H	1.62	0.40
1:D:53:PHE:O	1:D:53:PHE:CD1	2.74	0.40
1:E:161:ILE:HA	1:E:189:ILE:HG22	2.02	0.40
1:E:275:GLN:HG3	1:E:291:THR:OG1	2.21	0.40
1:A:22:TYR:HB3	1:A:41:PHE:HB2	2.02	0.40
1:B:77:PHE:N	1:B:84:ARG:HD3	2.29	0.40
1:B:161:ILE:HA	1:B:189:ILE:HG22	2.02	0.40
1:B:275:GLN:HG3	1:B:291:THR:OG1	2.21	0.40
1:C:72:ILE:HA	1:C:73:PRO:HD3	1.84	0.40
1:C:137:ARG:HA	1:C:137:ARG:HD3	1.61	0.40
1:E:80:VAL:HG12	1:E:81:GLU:N	2.35	0.40
1:A:161:ILE:HA	1:A:189:ILE:HG22	2.02	0.40
1:C:54:ASP:HB2	1:C:57:ARG:CG	2.50	0.40
1:C:264:PHE:HZ	1:C:301:VAL:HG12	1.85	0.40
1:C:275:GLN:HG3	1:C:291:THR:OG1	2.21	0.40
1:B:270:ILE:HG22	1:B:271:GLU:N	2.37	0.40
1:D:194:PHE:O	1:D:198:PRO:HD2	2.22	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	309/317 (98%)	247 (80%)	49 (16%)	13 (4%)	2	14
1	B	309/317 (98%)	247 (80%)	49 (16%)	13 (4%)	2	14
1	C	309/317 (98%)	247 (80%)	49 (16%)	13 (4%)	2	14
1	D	309/317 (98%)	247 (80%)	49 (16%)	13 (4%)	2	14
1	E	309/317 (98%)	246 (80%)	50 (16%)	13 (4%)	2	14
All	All	1545/1585 (98%)	1234 (80%)	246 (16%)	65 (4%)	2	14

All (65) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	148	VAL
1	A	194	PHE
1	B	148	VAL
1	B	194	PHE
1	C	148	VAL
1	C	194	PHE
1	D	148	VAL
1	D	194	PHE
1	E	148	VAL
1	E	150	LYS
1	E	194	PHE
1	A	50	ARG
1	A	150	LYS
1	B	50	ARG
1	B	150	LYS
1	C	50	ARG
1	C	150	LYS
1	D	50	ARG
1	D	150	LYS
1	E	50	ARG
1	A	81	GLU

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Mol	Chain	Res	Type
1	A	163	SER
1	A	275	GLN
1	A	295	ARG
1	B	81	GLU
1	B	163	SER
1	B	275	GLN
1	B	295	ARG
1	C	81	GLU
1	C	163	SER
1	C	275	GLN
1	D	81	GLU
1	D	163	SER
1	D	275	GLN
1	E	81	GLU
1	E	163	SER
1	E	275	GLN
1	E	295	ARG
1	C	295	ARG
1	D	295	ARG
1	A	118	TYR
1	B	118	TYR
1	C	118	TYR
1	D	118	TYR
1	E	118	TYR
1	A	155	PHE
1	A	278	LEU
1	A	303	LEU
1	B	155	PHE
1	B	278	LEU
1	B	303	LEU
1	C	155	PHE
1	C	278	LEU
1	C	303	LEU
1	D	155	PHE
1	D	278	LEU
1	D	303	LEU
1	E	155	PHE
1	E	278	LEU
1	E	303	LEU
1	A	210	ILE
1	B	210	ILE
1	C	210	ILE

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Mol	Chain	Res	Type
1	D	210	ILE
1	E	210	ILE

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	279/284 (98%)	216 (77%)	63 (23%)	1	3
1	B	279/284 (98%)	216 (77%)	63 (23%)	1	3
1	C	279/284 (98%)	216 (77%)	63 (23%)	1	3
1	D	279/284 (98%)	216 (77%)	63 (23%)	1	3
1	E	279/284 (98%)	216 (77%)	63 (23%)	1	3
All	All	1395/1420 (98%)	1080 (77%)	315 (23%)	1	3

All (315) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	12	ASP
1	A	16	THR
1	A	45	SER
1	A	49	ARG
1	A	50	ARG
1	A	51	LEU
1	A	57	ARG
1	A	64	THR
1	A	68	GLU
1	A	78	VAL
1	A	79	ASN
1	A	82	ASN
1	A	84	ARG
1	A	89	VAL
1	A	98	THR
1	A	99	VAL
1	A	100	GLN

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Mol	Chain	Res	Type
1	A	108	ARG
1	A	122	SER
1	A	130	ILE
1	A	131	VAL
1	A	134	VAL
1	A	141	LEU
1	A	146	GLU
1	A	147	LYS
1	A	150	LYS
1	A	151	ASN
1	A	154	VAL
1	A	157	THR
1	A	162	GLU
1	A	165	THR
1	A	173	PHE
1	A	179	LEU
1	A	204	MET
1	A	211	SER
1	A	213	THR
1	A	218	THR
1	A	221[A]	GLU
1	A	221[B]	GLU
1	A	225	THR
1	A	226	LEU
1	A	228	VAL
1	A	232	ILE
1	A	243	THR
1	A	245	LEU
1	A	248	THR
1	A	252	THR
1	A	254	THR
1	A	258	ILE
1	A	260	MET
1	A	263	LEU
1	A	269	VAL
1	A	270	ILE
1	A	274	VAL
1	A	278	LEU
1	A	282	SER
1	A	286	ARG
1	A	292	ARG
1	A	296	ILE

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Mol	Chain	Res	Type
1	A	300	VAL
1	A	304	LEU
1	A	306	ASN
1	A	314	PHE
1	B	12	ASP
1	B	16	THR
1	B	45	SER
1	B	49	ARG
1	B	50	ARG
1	B	51	LEU
1	B	57	ARG
1	B	64	THR
1	B	68	GLU
1	B	78	VAL
1	B	79	ASN
1	B	82	ASN
1	B	84	ARG
1	B	89	VAL
1	B	98	THR
1	B	99	VAL
1	B	100	GLN
1	B	108	ARG
1	B	122	SER
1	B	130	ILE
1	B	131	VAL
1	B	134	VAL
1	B	141	LEU
1	B	146	GLU
1	B	147	LYS
1	B	150	LYS
1	B	151	ASN
1	B	154	VAL
1	B	157	THR
1	B	162	GLU
1	B	165	THR
1	B	173	PHE
1	B	179	LEU
1	B	204	MET
1	B	211	SER
1	B	213	THR
1	B	218	THR
1	B	221[A]	GLU

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Mol	Chain	Res	Type
1	B	221[B]	GLU
1	B	225	THR
1	B	226	LEU
1	B	228	VAL
1	B	232	ILE
1	B	243	THR
1	B	245	LEU
1	B	248	THR
1	B	252	THR
1	B	254	THR
1	B	258	ILE
1	B	260	MET
1	B	263	LEU
1	B	269	VAL
1	B	270	ILE
1	B	274	VAL
1	B	278	LEU
1	B	282	SER
1	B	286	ARG
1	B	292	ARG
1	B	296	ILE
1	B	300	VAL
1	B	304	LEU
1	B	306	ASN
1	B	314	PHE
1	C	12	ASP
1	C	16	THR
1	C	45	SER
1	C	49	ARG
1	C	50	ARG
1	C	51	LEU
1	C	57	ARG
1	C	64	THR
1	C	68	GLU
1	C	78	VAL
1	C	79	ASN
1	C	82	ASN
1	C	84	ARG
1	C	89	VAL
1	C	98	THR
1	C	99	VAL
1	C	100	GLN

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Mol	Chain	Res	Type
1	C	108	ARG
1	C	122	SER
1	C	130	ILE
1	C	131	VAL
1	C	134	VAL
1	C	141	LEU
1	C	146	GLU
1	C	147	LYS
1	C	150	LYS
1	C	151	ASN
1	C	154	VAL
1	C	157	THR
1	C	162	GLU
1	C	165	THR
1	C	173	PHE
1	C	179	LEU
1	C	204	MET
1	C	211	SER
1	C	213	THR
1	C	218	THR
1	C	221[A]	GLU
1	C	221[B]	GLU
1	C	225	THR
1	C	226	LEU
1	C	228	VAL
1	C	232	ILE
1	C	243	THR
1	C	245	LEU
1	C	248	THR
1	C	252	THR
1	C	254	THR
1	C	258	ILE
1	C	260	MET
1	C	263	LEU
1	C	269	VAL
1	C	270	ILE
1	C	274	VAL
1	C	278	LEU
1	C	282	SER
1	C	286	ARG
1	C	292	ARG
1	C	296	ILE

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Mol	Chain	Res	Type
1	C	300	VAL
1	C	304	LEU
1	C	306	ASN
1	C	314	PHE
1	D	12	ASP
1	D	16	THR
1	D	45	SER
1	D	49	ARG
1	D	50	ARG
1	D	51	LEU
1	D	57	ARG
1	D	64	THR
1	D	68	GLU
1	D	78	VAL
1	D	79	ASN
1	D	82	ASN
1	D	84	ARG
1	D	89	VAL
1	D	98	THR
1	D	99	VAL
1	D	100	GLN
1	D	108	ARG
1	D	122	SER
1	D	130	ILE
1	D	131	VAL
1	D	134	VAL
1	D	141	LEU
1	D	146	GLU
1	D	147	LYS
1	D	150	LYS
1	D	151	ASN
1	D	154	VAL
1	D	157	THR
1	D	162	GLU
1	D	165	THR
1	D	173	PHE
1	D	179	LEU
1	D	204	MET
1	D	211	SER
1	D	213	THR
1	D	218	THR
1	D	221[A]	GLU

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Mol	Chain	Res	Type
1	D	221[B]	GLU
1	D	225	THR
1	D	226	LEU
1	D	228	VAL
1	D	232	ILE
1	D	243	THR
1	D	245	LEU
1	D	248	THR
1	D	252	THR
1	D	254	THR
1	D	258	ILE
1	D	260	MET
1	D	263	LEU
1	D	269	VAL
1	D	270	ILE
1	D	274	VAL
1	D	278	LEU
1	D	282	SER
1	D	286	ARG
1	D	292	ARG
1	D	296	ILE
1	D	300	VAL
1	D	304	LEU
1	D	306	ASN
1	D	314	PHE
1	E	12	ASP
1	E	16	THR
1	E	45	SER
1	E	49	ARG
1	E	50	ARG
1	E	51	LEU
1	E	57	ARG
1	E	64	THR
1	E	68	GLU
1	E	78	VAL
1	E	79	ASN
1	E	82	ASN
1	E	84	ARG
1	E	89	VAL
1	E	98	THR
1	E	99	VAL
1	E	100	GLN

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Mol	Chain	Res	Type
1	E	108	ARG
1	E	122	SER
1	E	130	ILE
1	E	131	VAL
1	E	134	VAL
1	E	141	LEU
1	E	146	GLU
1	E	147	LYS
1	E	150	LYS
1	E	151	ASN
1	E	154	VAL
1	E	157	THR
1	E	162	GLU
1	E	165	THR
1	E	173	PHE
1	E	179	LEU
1	E	204	MET
1	E	211	SER
1	E	213	THR
1	E	218	THR
1	E	221[A]	GLU
1	E	221[B]	GLU
1	E	225	THR
1	E	226	LEU
1	E	228	VAL
1	E	232	ILE
1	E	243	THR
1	E	245	LEU
1	E	248	THR
1	E	252	THR
1	E	254	THR
1	E	258	ILE
1	E	260	MET
1	E	263	LEU
1	E	269	VAL
1	E	270	ILE
1	E	274	VAL
1	E	278	LEU
1	E	282	SER
1	E	286	ARG
1	E	292	ARG
1	E	296	ILE

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Mol	Chain	Res	Type
1	E	300	VAL
1	E	304	LEU
1	E	306	ASN
1	E	314	PHE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (43) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	39	ASN
1	A	79	ASN
1	A	123	GLN
1	A	138	ASN
1	A	151	ASN
1	A	234	HIS
1	A	244	ASN
1	A	283	GLN
1	A	306	ASN
1	B	39	ASN
1	B	79	ASN
1	B	123	GLN
1	B	138	ASN
1	B	151	ASN
1	B	234	HIS
1	B	244	ASN
1	B	283	GLN
1	B	306	ASN
1	C	39	ASN
1	C	79	ASN
1	C	138	ASN
1	C	151	ASN
1	C	234	HIS
1	C	244	ASN
1	C	283	GLN
1	C	306	ASN
1	D	39	ASN
1	D	79	ASN
1	D	123	GLN
1	D	138	ASN
1	D	151	ASN
1	D	234	HIS
1	D	244	ASN
1	D	283	GLN

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Mol	Chain	Res	Type
1	D	306	ASN
1	E	39	ASN
1	E	79	ASN
1	E	138	ASN
1	E	151	ASN
1	E	234	HIS
1	E	244	ASN
1	E	283	GLN
1	E	306	ASN

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](#)

Of 5 ligands modelled in this entry, 5 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

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	310/317 (97%)	1.36	82 (26%) 1 3	52, 100, 157, 271	1 (0%)
1	B	310/317 (97%)	1.47	78 (25%) 1 3	52, 100, 157, 271	1 (0%)
1	C	310/317 (97%)	1.51	92 (29%) 1 2	52, 100, 157, 271	1 (0%)
1	D	310/317 (97%)	1.34	82 (26%) 1 3	52, 100, 157, 271	1 (0%)
1	E	310/317 (97%)	1.46	84 (27%) 1 2	52, 100, 157, 271	1 (0%)
All	All	1550/1585 (97%)	1.43	418 (26%) 1 2	52, 100, 158, 271	5 (0%)

All (418) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	152	ASP	16.2
1	C	153	ASP	14.4
1	B	153	ASP	14.2
1	E	60	VAL	13.4
1	C	59	GLY	13.4
1	E	59	GLY	11.2
1	C	58	SER	10.3
1	B	145	LEU	10.0
1	C	60	VAL	9.6
1	E	145	LEU	9.3
1	B	148	VAL	8.6
1	D	60	VAL	8.5
1	E	153	ASP	8.2
1	E	148	VAL	8.1
1	C	145	LEU	7.7
1	E	87	ASP	7.7
1	E	61	ARG	7.7
1	A	145	LEU	7.5
1	E	152	ASP	7.3
1	C	177	ASP	7.3

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Mol	Chain	Res	Type	RSRZ
1	A	153	ASP	7.3
1	E	143	VAL	7.2
1	A	177	ASP	7.0
1	D	145	LEU	7.0
1	B	60	VAL	6.9
1	D	152	ASP	6.8
1	E	144	ASP	6.5
1	C	144	ASP	6.4
1	B	151	ASN	6.4
1	B	243	THR	6.3
1	A	68	GLU	6.3
1	D	11	ALA	6.3
1	B	87	ASP	6.0
1	B	143	VAL	5.7
1	A	103	GLU	5.7
1	A	74	GLU	5.7
1	E	154	VAL	5.6
1	E	55	PRO	5.6
1	D	59	GLY	5.6
1	C	279	LYS	5.6
1	B	55	PRO	5.5
1	A	87	ASP	5.2
1	D	10	ILE	5.2
1	B	146	GLU	5.2
1	D	87	ASP	5.2
1	C	7	PRO	5.2
1	A	152	ASP	5.1
1	C	74	GLU	5.1
1	A	155	PHE	5.1
1	B	154	VAL	5.0
1	A	101	TYR	5.0
1	C	193	TYR	5.0
1	D	63	LYS	5.0
1	E	10	ILE	4.9
1	C	54	ASP	4.9
1	A	148	VAL	4.9
1	A	206	PHE	4.8
1	C	155	PHE	4.8
1	D	148	VAL	4.8
1	B	144	ASP	4.8
1	B	61	ARG	4.8
1	A	144	ASP	4.8

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Mol	Chain	Res	Type	RSRZ
1	C	11	ALA	4.7
1	A	11	ALA	4.7
1	C	135	ASP	4.7
1	C	62	VAL	4.7
1	C	53	PHE	4.6
1	A	13	GLU	4.6
1	B	244	ASN	4.6
1	D	126	HIS	4.6
1	B	57	ARG	4.5
1	C	148	VAL	4.5
1	B	7	PRO	4.5
1	D	13	GLU	4.5
1	E	54	ASP	4.5
1	E	11	ALA	4.5
1	E	8	PRO	4.5
1	D	242	GLU	4.5
1	A	176	GLU	4.5
1	E	62	VAL	4.4
1	B	155	PHE	4.4
1	D	97	GLY	4.3
1	E	13	GLU	4.3
1	B	177	ASP	4.2
1	B	54	ASP	4.2
1	D	12	ASP	4.2
1	D	7	PRO	4.2
1	E	193	TYR	4.2
1	B	74	GLU	4.1
1	A	174	ALA	4.1
1	D	292	ARG	4.1
1	D	26	CYS	4.1
1	E	7	PRO	4.1
1	C	50	ARG	4.1
1	E	57	ARG	4.1
1	C	63	LYS	4.0
1	B	11	ALA	4.0
1	C	141	LEU	4.0
1	D	18	ASN	4.0
1	A	67	PRO	4.0
1	A	209	PHE	4.0
1	E	58	SER	4.0
1	E	146	GLU	4.0
1	D	134	VAL	3.9

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Mol	Chain	Res	Type	RSRZ
1	A	163	SER	3.9
1	A	72	ILE	3.9
1	B	100	GLN	3.9
1	C	285	ALA	3.9
1	E	103	GLU	3.8
1	B	90	ASP	3.8
1	C	194	PHE	3.8
1	A	179	LEU	3.8
1	D	101	TYR	3.8
1	C	55	PRO	3.8
1	D	54	ASP	3.8
1	A	149	GLY	3.7
1	A	187	LEU	3.7
1	D	47	LYS	3.7
1	A	134	VAL	3.7
1	E	141	LEU	3.7
1	B	89	VAL	3.7
1	A	139	ILE	3.6
1	B	275	GLN	3.6
1	C	200	ILE	3.6
1	C	138	ASN	3.6
1	B	101	TYR	3.6
1	B	242	GLU	3.6
1	A	60	VAL	3.6
1	C	13	GLU	3.6
1	C	18	ASN	3.6
1	B	225	THR	3.5
1	A	154	VAL	3.5
1	C	316	PHE	3.5
1	D	146	GLU	3.5
1	A	12	ASP	3.5
1	E	101	TYR	3.4
1	B	62	VAL	3.4
1	C	280	VAL	3.4
1	D	136	THR	3.4
1	D	135	ASP	3.4
1	C	176	GLU	3.4
1	B	193	TYR	3.4
1	C	199	ASN	3.4
1	D	8	PRO	3.4
1	D	316	PHE	3.4
1	B	141	LEU	3.4

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Mol	Chain	Res	Type	RSRZ
1	B	150	LYS	3.4
1	B	88	VAL	3.4
1	D	44	LEU	3.4
1	E	279	LYS	3.3
1	C	143	VAL	3.3
1	B	10	ILE	3.3
1	E	161	ILE	3.3
1	E	100	GLN	3.3
1	A	89	VAL	3.3
1	B	222	ALA	3.3
1	E	176	GLU	3.3
1	A	88	VAL	3.3
1	E	47	LYS	3.3
1	E	74	GLU	3.3
1	D	144	ASP	3.2
1	B	169	LYS	3.2
1	B	65	TYR	3.2
1	B	8	PRO	3.2
1	B	97	GLY	3.2
1	A	316	PHE	3.2
1	C	154	VAL	3.2
1	C	61	ARG	3.2
1	A	141	LEU	3.2
1	B	111	SER	3.2
1	D	315	GLY	3.1
1	C	151	ASN	3.1
1	D	143	VAL	3.1
1	C	152	ASP	3.1
1	B	173	PHE	3.1
1	C	178	ARG	3.1
1	B	18	ASN	3.1
1	B	176	GLU	3.1
1	C	174	ALA	3.1
1	A	205	LEU	3.1
1	D	241	VAL	3.1
1	D	49	ARG	3.0
1	C	224	VAL	3.0
1	A	53	PHE	3.0
1	C	221[A]	GLU	3.0
1	C	136	THR	3.0
1	C	140	VAL	3.0
1	E	80	VAL	3.0

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Mol	Chain	Res	Type	RSRZ
1	A	10	ILE	3.0
1	E	12	ASP	3.0
1	E	65	TYR	3.0
1	D	89	VAL	3.0
1	C	243	THR	3.0
1	E	53	PHE	3.0
1	D	70	ILE	3.0
1	C	87	ASP	3.0
1	A	249	PRO	2.9
1	D	194	PHE	2.9
1	E	155	PHE	2.9
1	A	172	ASN	2.9
1	D	141	LEU	2.9
1	E	134	VAL	2.9
1	B	135	ASP	2.9
1	A	186	GLN	2.9
1	A	208	LEU	2.9
1	C	218	THR	2.9
1	A	86	ALA	2.9
1	C	57	ARG	2.9
1	C	204	MET	2.9
1	C	137	ARG	2.9
1	B	47	LYS	2.9
1	C	275	GLN	2.8
1	A	135	ASP	2.8
1	A	143	VAL	2.8
1	B	216	TRP	2.8
1	A	137	ARG	2.8
1	A	164	PHE	2.8
1	D	58	SER	2.8
1	D	188	ARG	2.8
1	D	155	PHE	2.8
1	E	163	SER	2.8
1	A	55	PRO	2.8
1	C	126	HIS	2.8
1	D	57	ARG	2.8
1	A	150	LYS	2.8
1	A	207	ILE	2.8
1	A	84	ARG	2.8
1	C	195	SER	2.8
1	E	243	THR	2.8
1	E	90	ASP	2.7

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Mol	Chain	Res	Type	RSRZ
1	E	135	ASP	2.7
1	A	193	TYR	2.7
1	E	98	THR	2.7
1	E	165	THR	2.7
1	E	151	ASN	2.7
1	C	56	VAL	2.7
1	C	241	VAL	2.7
1	B	316	PHE	2.7
1	C	242	GLU	2.7
1	A	175	LEU	2.7
1	C	68	GLU	2.7
1	A	64	THR	2.7
1	E	150	LYS	2.7
1	C	90	ASP	2.7
1	A	73	PRO	2.7
1	E	169	LYS	2.7
1	C	282	SER	2.7
1	D	65	TYR	2.7
1	D	193	TYR	2.7
1	C	12	ASP	2.7
1	B	266	PHE	2.6
1	C	206	PHE	2.6
1	D	266	PHE	2.6
1	E	188	ARG	2.6
1	A	136	THR	2.6
1	A	102	LEU	2.6
1	C	134	VAL	2.6
1	C	10	ILE	2.6
1	B	82	ASN	2.6
1	D	275	GLN	2.6
1	A	25	GLU	2.6
1	A	286	ARG	2.6
1	A	7	PRO	2.6
1	B	103	GLU	2.6
1	E	187	LEU	2.6
1	D	178	ARG	2.6
1	C	139	ILE	2.6
1	E	316	PHE	2.6
1	C	25	GLU	2.6
1	B	218	THR	2.6
1	A	65	TYR	2.6
1	B	73	PRO	2.6

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Mol	Chain	Res	Type	RSRZ
1	B	315	GLY	2.6
1	D	153	ASP	2.6
1	C	131	VAL	2.6
1	E	97	GLY	2.5
1	E	82	ASN	2.5
1	D	103	GLU	2.5
1	A	224	VAL	2.5
1	E	300	VAL	2.5
1	C	288	ALA	2.5
1	C	8	PRO	2.5
1	C	149	GLY	2.5
1	D	25	GLU	2.5
1	A	82	ASN	2.5
1	C	85	ASP	2.5
1	E	136	THR	2.5
1	C	95	PRO	2.5
1	C	277	TYR	2.5
1	C	281	GLU	2.5
1	A	61	ARG	2.5
1	D	277	TYR	2.5
1	E	275	GLN	2.5
1	B	285	ALA	2.4
1	E	285	ALA	2.4
1	A	81	GLU	2.4
1	B	53	PHE	2.4
1	B	81	GLU	2.4
1	E	15	LEU	2.4
1	D	82	ASN	2.4
1	D	306	ASN	2.4
1	E	138	ASN	2.4
1	A	95	PRO	2.4
1	B	267	VAL	2.4
1	B	276	HIS	2.4
1	C	78	VAL	2.4
1	A	178	ARG	2.4
1	E	63	LYS	2.4
1	A	229	SER	2.4
1	C	217	SER	2.4
1	B	138	ASN	2.4
1	B	165	THR	2.4
1	D	64	THR	2.4
1	B	80	VAL	2.4

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Mol	Chain	Res	Type	RSRZ
1	D	53	PHE	2.4
1	B	221[A]	GLU	2.4
1	D	125	LEU	2.4
1	D	45	SER	2.4
1	E	299	PRO	2.4
1	C	65	TYR	2.4
1	D	177	ASP	2.4
1	B	229	SER	2.4
1	D	56	VAL	2.4
1	E	124	THR	2.3
1	B	91	ILE	2.3
1	C	223	ASN	2.3
1	D	276	HIS	2.3
1	D	96	ASP	2.3
1	C	283	GLN	2.3
1	E	75	ILE	2.3
1	E	137	ARG	2.3
1	A	151	ASN	2.3
1	E	229	SER	2.3
1	A	173	PHE	2.3
1	B	149	GLY	2.3
1	D	43	SER	2.3
1	D	229	SER	2.3
1	B	168	VAL	2.3
1	E	242	GLU	2.3
1	C	97	GLY	2.3
1	A	212	TRP	2.3
1	A	225	THR	2.3
1	B	219	SER	2.3
1	D	79	ASN	2.3
1	C	186	GLN	2.3
1	D	186	GLN	2.3
1	E	283	GLN	2.3
1	C	80	VAL	2.3
1	C	81	GLU	2.2
1	E	180	GLU	2.2
1	A	275	GLN	2.2
1	D	55	PRO	2.2
1	C	16	THR	2.2
1	B	125	LEU	2.2
1	C	179	LEU	2.2
1	E	14	PRO	2.2

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Mol	Chain	Res	Type	RSRZ
1	E	42	LEU	2.2
1	C	129	LEU	2.2
1	A	121	ASP	2.2
1	D	48	ASP	2.2
1	D	85	ASP	2.2
1	C	209	PHE	2.2
1	B	98	THR	2.2
1	A	70	ILE	2.2
1	B	72	ILE	2.2
1	D	100	GLN	2.2
1	E	94	SER	2.2
1	C	51	LEU	2.2
1	E	81	GLU	2.2
1	A	147	LYS	2.2
1	A	76	ARG	2.2
1	B	157	THR	2.1
1	E	16	THR	2.1
1	D	231	LEU	2.1
1	C	86	ALA	2.1
1	E	162	GLU	2.1
1	D	138	ASN	2.1
1	A	168	VAL	2.1
1	D	62	VAL	2.1
1	E	56	VAL	2.1
1	E	168	VAL	2.1
1	D	252	THR	2.1
1	A	75	ILE	2.1
1	B	32	LYS	2.1
1	B	63	LYS	2.1
1	D	102	LEU	2.1
1	D	173	PHE	2.1
1	B	134	VAL	2.1
1	B	136	THR	2.1
1	E	44	LEU	2.1
1	E	147	LYS	2.1
1	C	100	GLN	2.1
1	D	66	GLU	2.1
1	A	211	SER	2.1
1	B	167	VAL	2.1
1	C	17	VAL	2.1
1	D	187	LEU	2.1
1	A	210	ILE	2.1

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Mol	Chain	Res	Type	RSRZ
1	E	212	TRP	2.1
1	D	184	ASP	2.1
1	C	214	ALA	2.1
1	E	174	ALA	2.1
1	D	209	PHE	2.1
1	A	138	ASN	2.0
1	D	42	LEU	2.0
1	E	70	ILE	2.0
1	E	286	ARG	2.0
1	C	52	ALA	2.0
1	A	47	LYS	2.0
1	E	281	GLU	2.0
1	E	274	VAL	2.0
1	B	226	LEU	2.0
1	A	204	MET	2.0
1	D	69	ALA	2.0
1	C	173	PHE	2.0
1	D	137	ARG	2.0
1	D	15	LEU	2.0
1	E	139	ILE	2.0

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 [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($\text{\AA}^2$)	Q<0.9
2	CD	A	1318	1/1	0.98	0.19	137,137,137,137	0
2	CD	A	1319	1/1	0.98	0.05	109,109,109,109	0
2	CD	C	1317	1/1	0.98	0.06	111,111,111,111	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	CD	C	1318	1/1	0.98	0.05	146,146,146,146	0
2	CD	A	1317	1/1	0.99	0.12	120,120,120,120	0

6.5 Other polymers [i](#)

There are no such residues in this entry.