



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 02:01 PM UTC

PDB ID : 6YFL / pdb_00006yfl
Title : Virus-like particle of bacteriophage ESE020
Authors : Rumnieks, J.; Kalnins, G.; Sisovs, M.; Lieknina, I.; Tars, K.
Deposited on : 2020-03-26
Resolution : 3.30 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

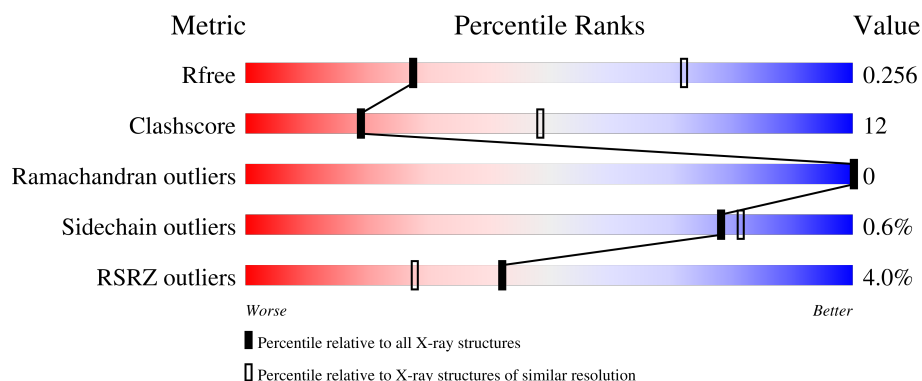
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.30 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	1169 (3.32-3.28)
Clashscore	190562	1209 (3.32-3.28)
Ramachandran outliers	187476	1188 (3.32-3.28)
Sidechain outliers	187428	1187 (3.32-3.28)
RSRZ outliers	180081	1169 (3.32-3.28)

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	AA	153	2% 69% 23% 8%
1	AB	153	3% 69% 31%
1	AC	153	5% 74% 26%
1	AD	153	3% 69% 23% 8%
1	AE	153	5% 68% 32%

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Mol	Chain	Length	Quality of chain
1	AF	153	
1	AG	153	
1	AH	153	
1	AI	153	
1	AJ	153	
1	AK	153	
1	AL	153	
1	AM	153	
1	AN	153	
1	AO	153	
1	AP	153	
1	AQ	153	
1	AR	153	
1	AS	153	
1	AT	153	
1	AU	153	
1	AV	153	
1	AW	153	
1	AX	153	
1	AY	153	
1	AZ	153	
1	BA	153	
1	BB	153	
1	BC	153	
1	BD	153	

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Mol	Chain	Length	Quality of chain
1	BE	153	
1	BF	153	
1	BG	153	
1	BH	153	
1	BI	153	
1	BJ	153	
1	BK	153	
1	BL	153	
1	BM	153	
1	BN	153	
1	BO	153	
1	BP	153	
1	BQ	153	
1	BR	153	
1	BS	153	
1	BT	153	
1	BU	153	
1	BV	153	
1	BW	153	
1	BX	153	
1	BY	153	
1	BZ	153	
1	CA	153	
1	CB	153	
1	CC	153	

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Mol	Chain	Length	Quality of chain
1	CD	153	 5% 67% 33%
1	CE	153	 3% 83% 17%
1	CF	153	 3% 69% 23% 8%
1	CG	153	 2% 69% 31%
1	CH	153	 3% 69% 31%

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 63520 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 coat protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	AA	141	Total	C	N	O	S	0	0	0
			1004	628	172	202	2			
1	AB	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			
1	AC	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			
1	AD	141	Total	C	N	O	S	0	0	0
			1004	628	172	202	2			
1	AE	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			
1	AF	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			
1	AG	141	Total	C	N	O	S	0	0	0
			1004	628	172	202	2			
1	AH	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			
1	AI	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			
1	AJ	141	Total	C	N	O	S	0	0	0
			1004	628	172	202	2			
1	AK	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			
1	AL	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			
1	AM	141	Total	C	N	O	S	0	0	0
			1004	628	172	202	2			
1	AN	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			
1	AO	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			
1	AP	141	Total	C	N	O	S	0	0	0
			1004	628	172	202	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	AQ	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			
1	AR	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			
1	AS	141	Total	C	N	O	S	0	0	0
			1004	628	172	202	2			
1	AT	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			
1	AU	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			
1	AV	141	Total	C	N	O	S	0	0	0
			1004	628	172	202	2			
1	AW	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			
1	AX	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			
1	AY	141	Total	C	N	O	S	0	0	0
			1004	628	172	202	2			
1	AZ	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			
1	BA	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			
1	BB	141	Total	C	N	O	S	0	0	0
			1004	628	172	202	2			
1	BC	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			
1	BD	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			
1	BE	141	Total	C	N	O	S	0	0	0
			1004	628	172	202	2			
1	BF	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			
1	BG	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			
1	BH	141	Total	C	N	O	S	0	0	0
			1004	628	172	202	2			
1	BI	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			
1	BJ	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			
1	BK	141	Total	C	N	O	S	0	0	0
			1004	628	172	202	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	BL	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			
1	BM	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			
1	BN	141	Total	C	N	O	S	0	0	0
			1004	628	172	202	2			
1	BO	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			
1	BP	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			
1	BQ	141	Total	C	N	O	S	0	0	0
			1004	628	172	202	2			
1	BR	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			
1	BS	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			
1	BT	141	Total	C	N	O	S	0	0	0
			1004	628	172	202	2			
1	BU	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			
1	BV	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			
1	BW	141	Total	C	N	O	S	0	0	0
			1004	628	172	202	2			
1	BX	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			
1	BY	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			
1	BZ	141	Total	C	N	O	S	0	0	0
			1004	628	172	202	2			
1	CA	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			
1	CB	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			
1	CC	141	Total	C	N	O	S	0	0	0
			1004	628	172	202	2			
1	CD	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			
1	CE	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			
1	CF	141	Total	C	N	O	S	0	0	0
			1004	628	172	202	2			

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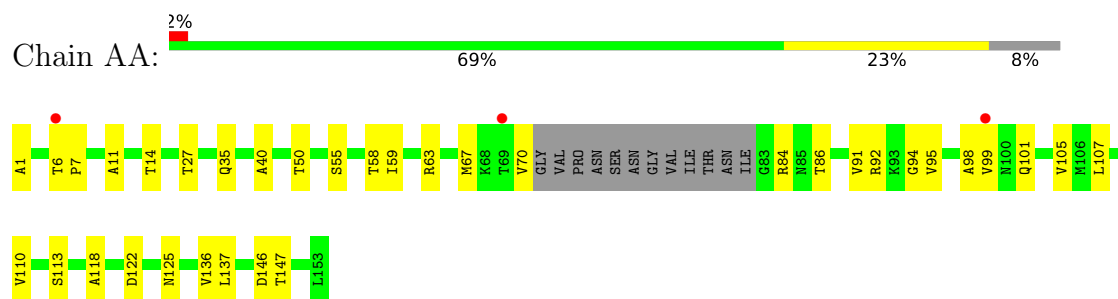
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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	CG	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			
1	CH	153	Total	C	N	O	S	0	0	0
			1086	678	187	219	2			

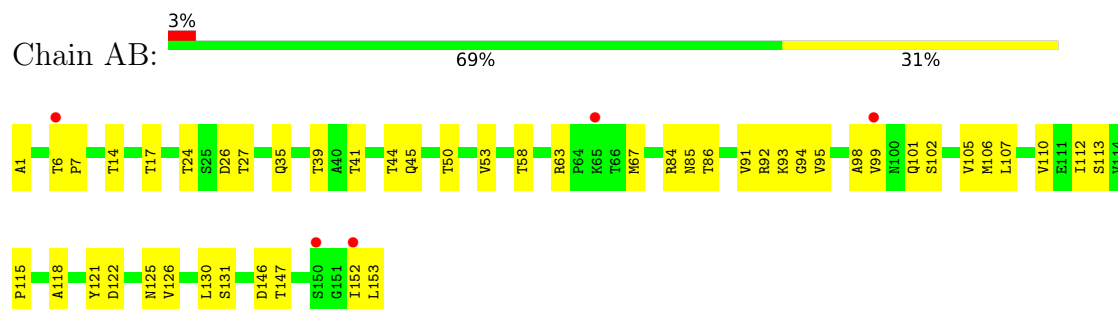
3 Residue-property plots [i](#)

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.

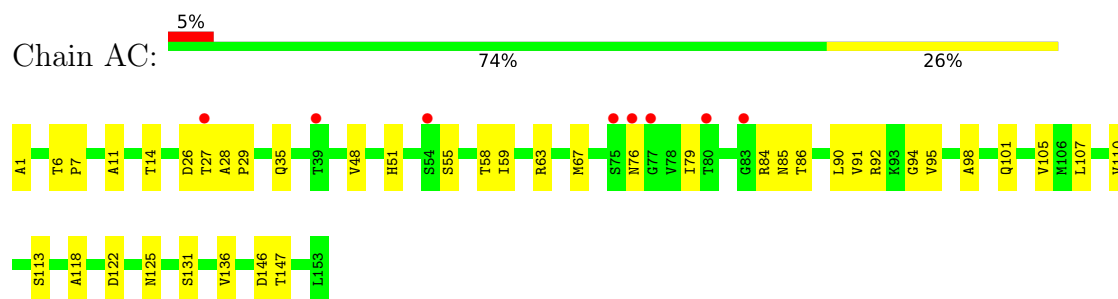
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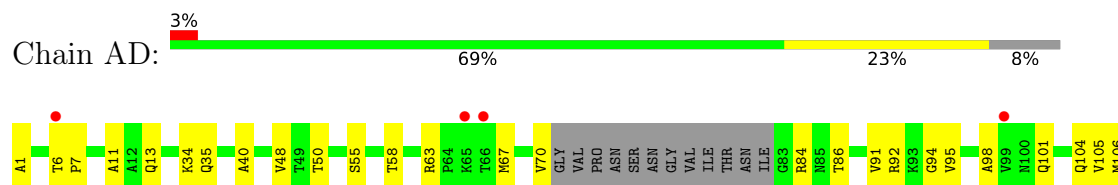
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- Molecule 1: coat protein

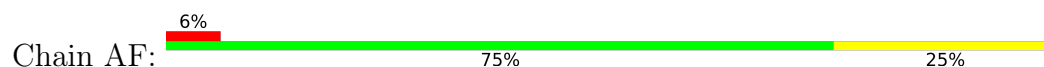




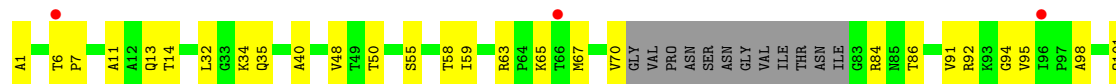
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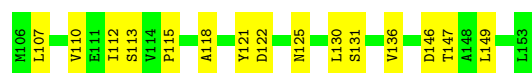
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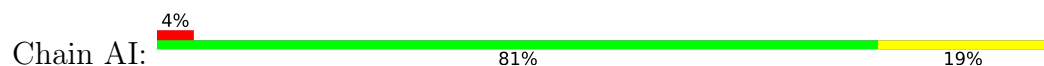
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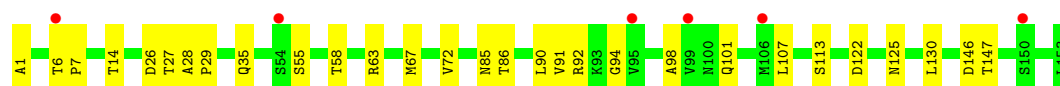


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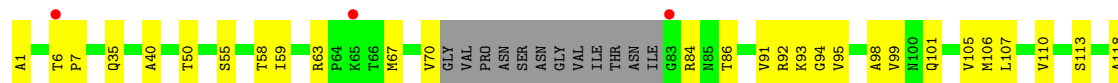
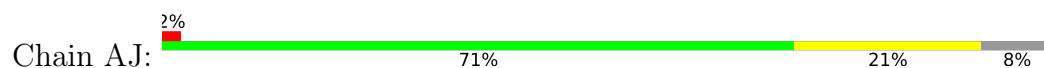


- Molecule 1: coat protein





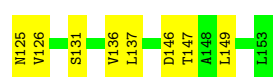
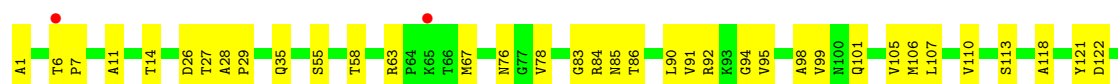
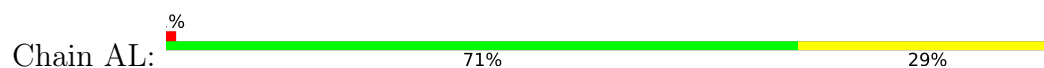
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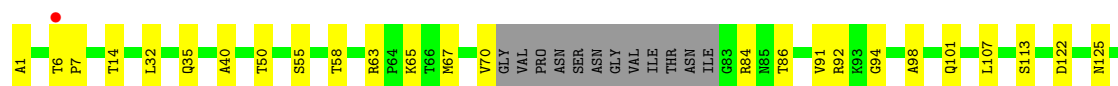
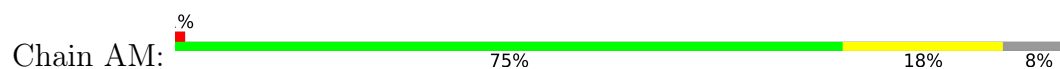
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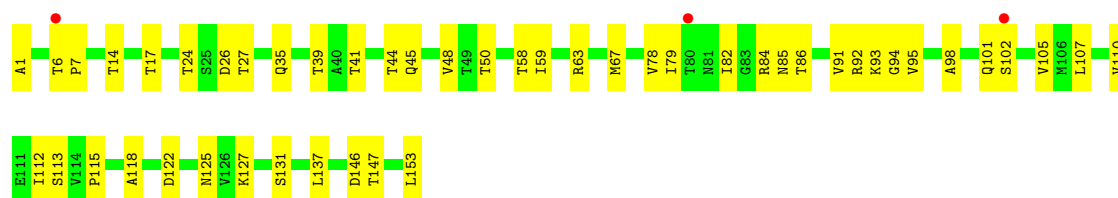


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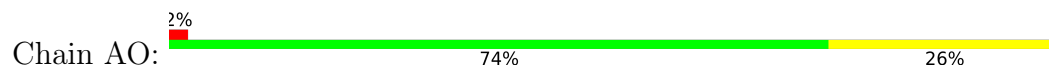


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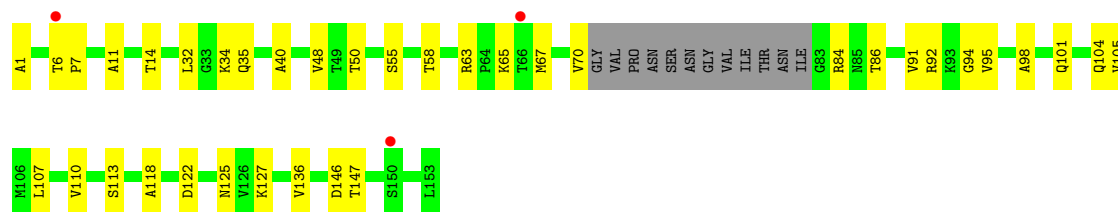




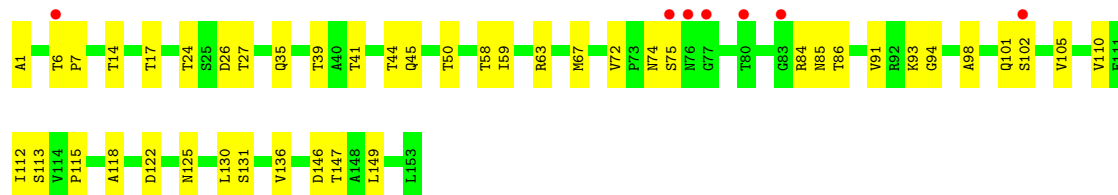
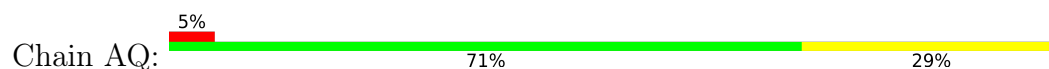
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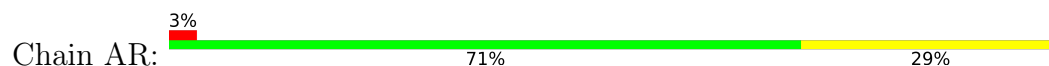
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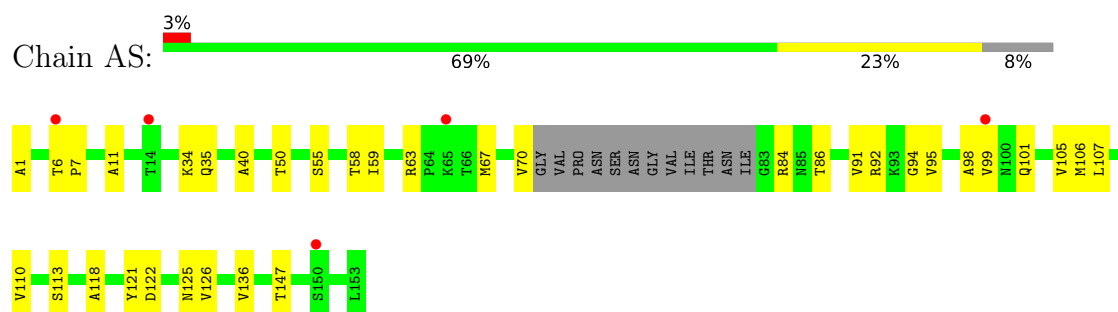
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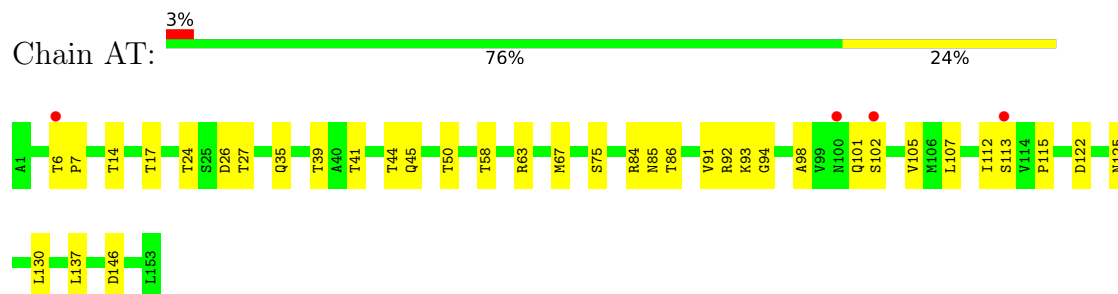
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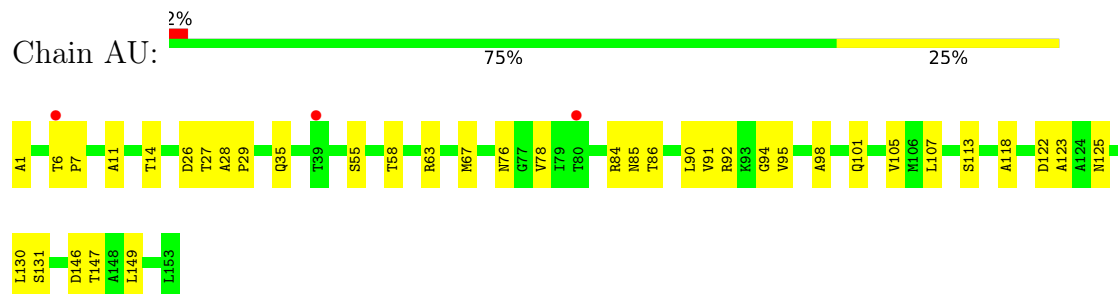
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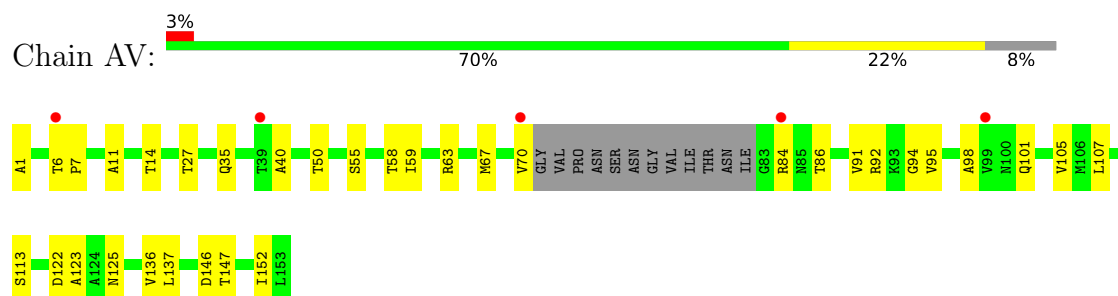
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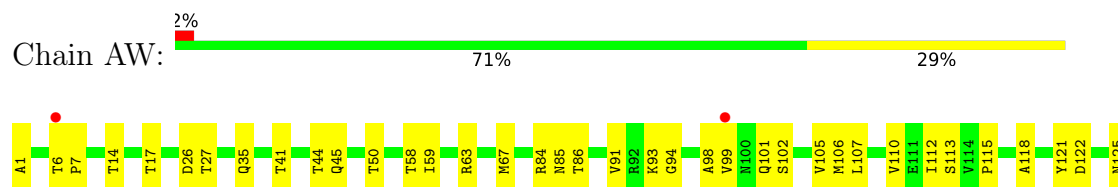
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- Molecule 1: coat protein

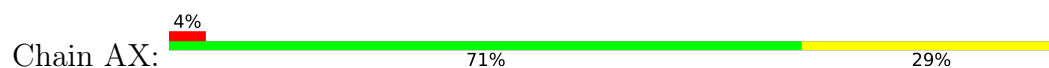


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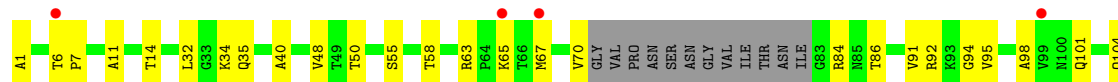




- Molecule 1: coat protein



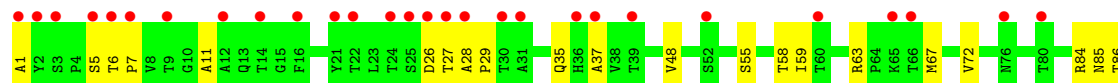
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- Molecule 1: coat protein

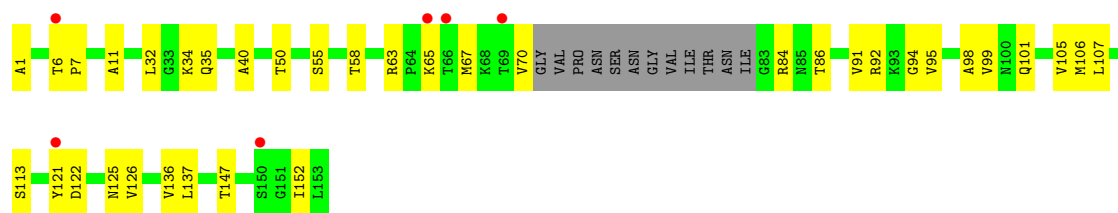


- Molecule 1: coat protein

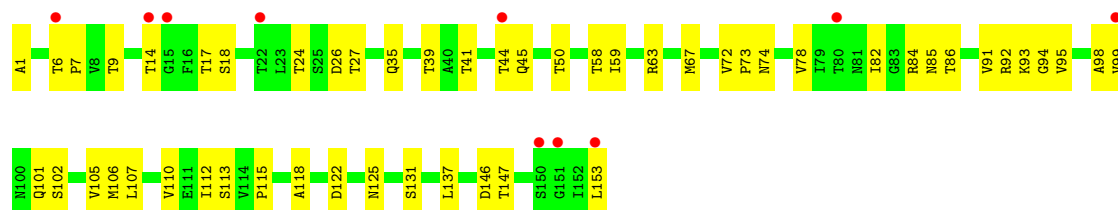


- Molecule 1: coat protein

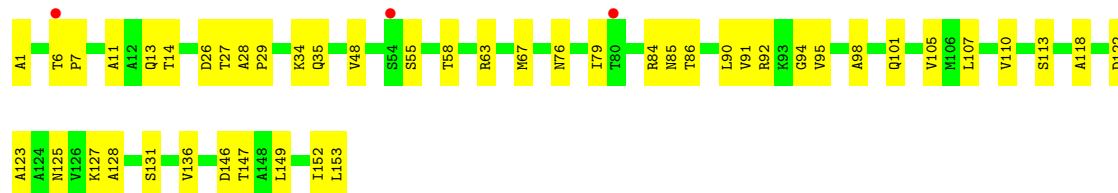
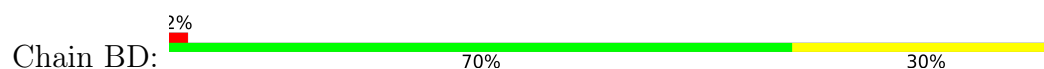




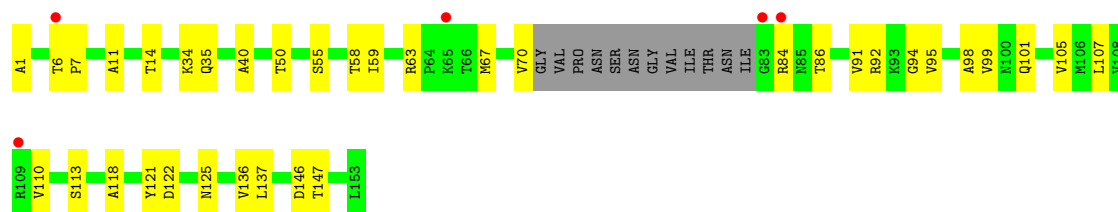
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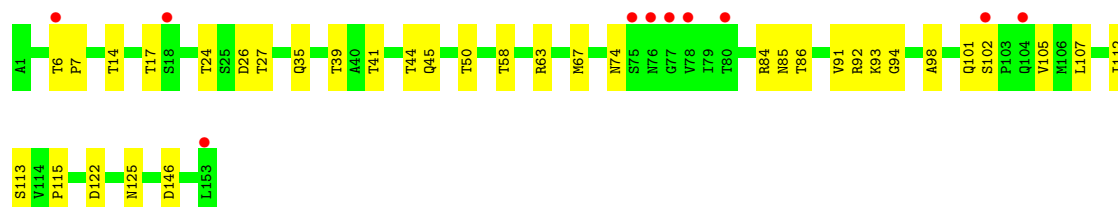
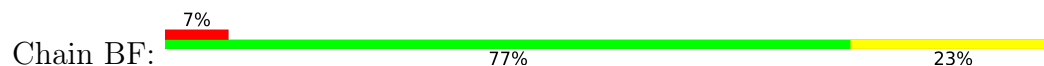
● Molecule 1: coat protein



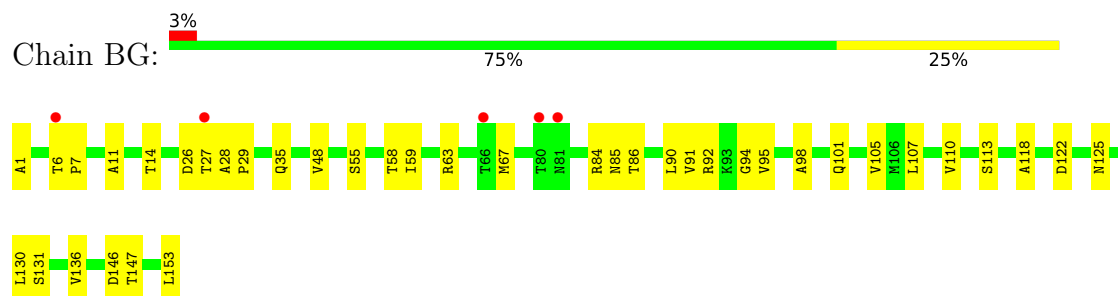
● Molecule 1: coat protein



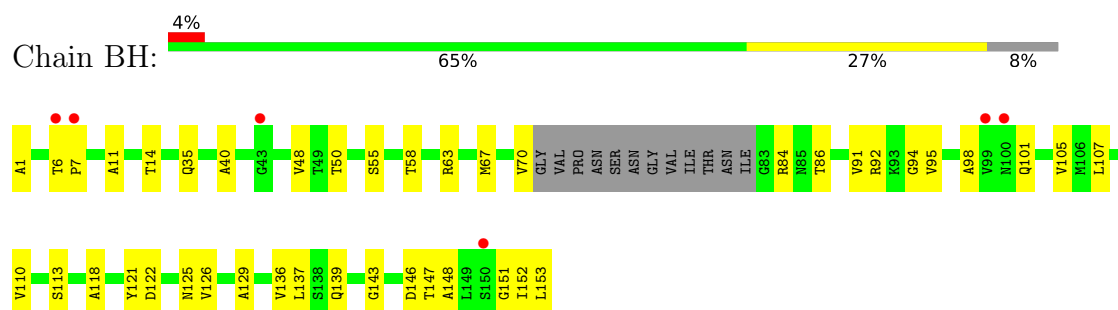
● Molecule 1: coat protein



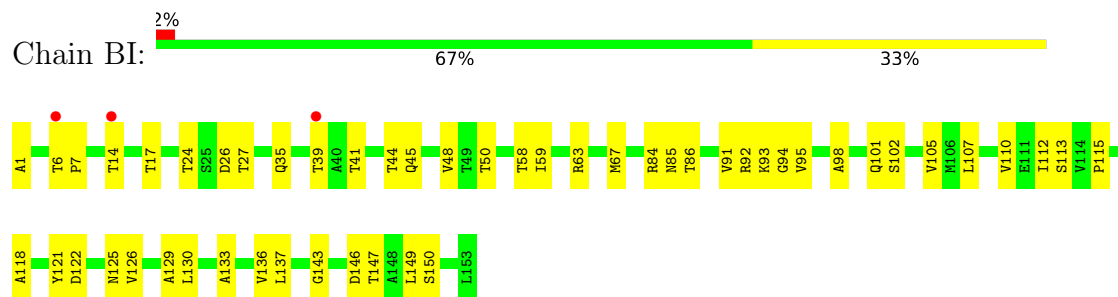
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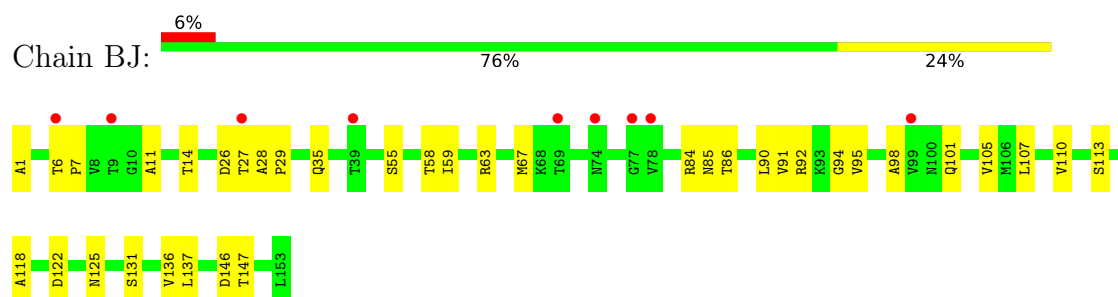
- Molecule 1: coat protein



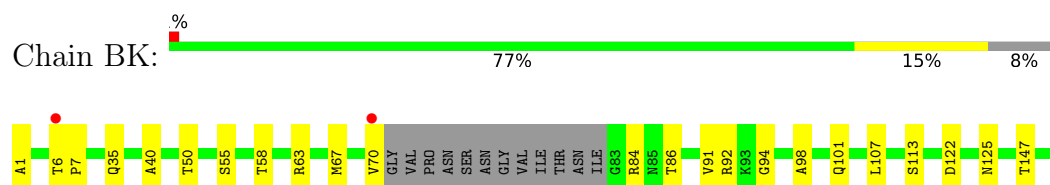
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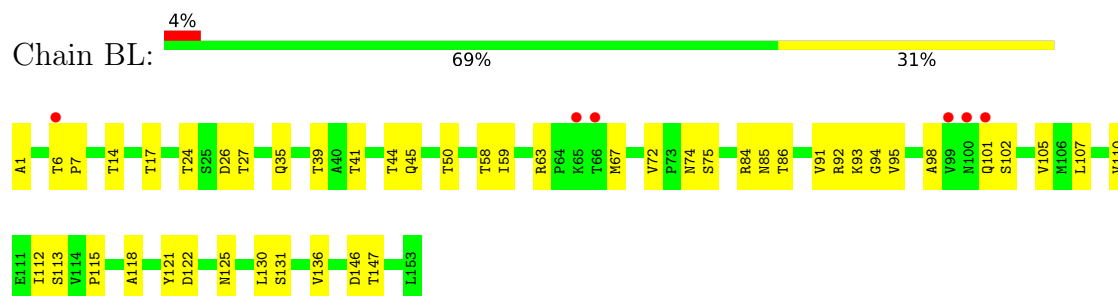
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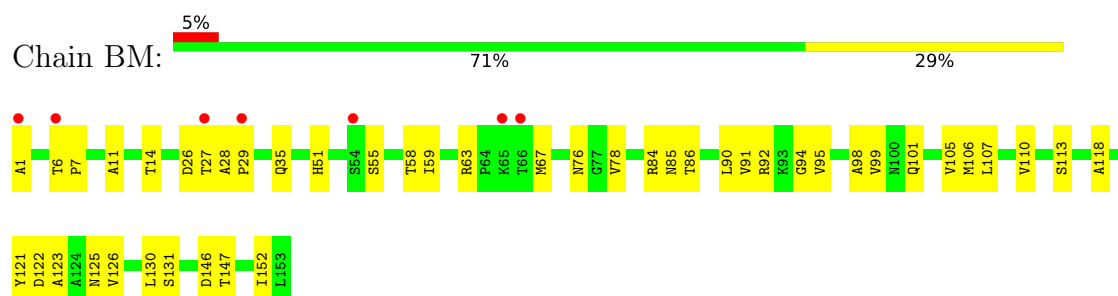
- Molecule 1: coat protein



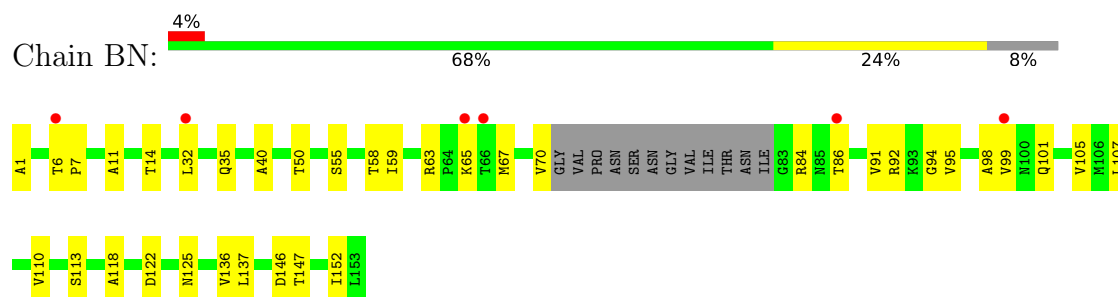
- Molecule 1: coat protein



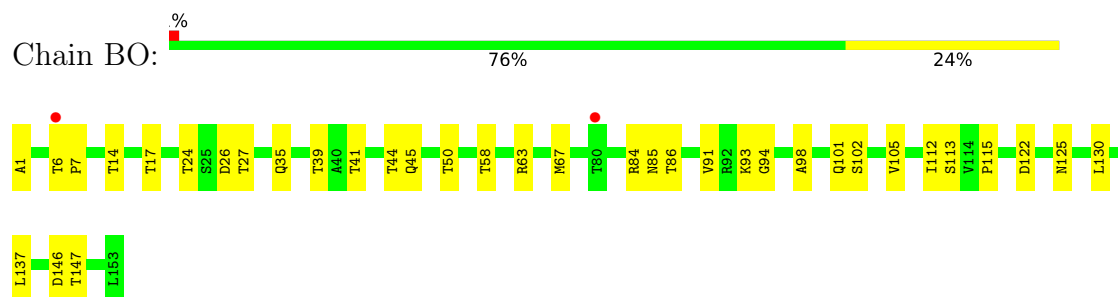
- Molecule 1: coat protein



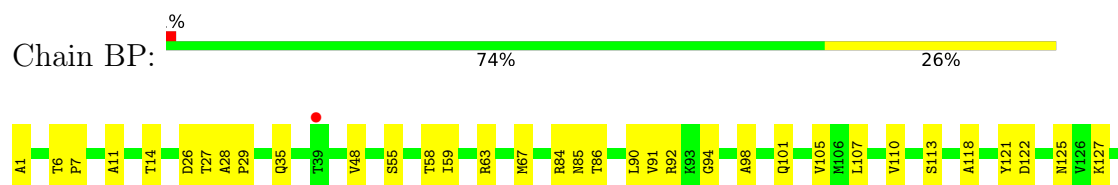
- Molecule 1: coat protein



- Molecule 1: coat protein

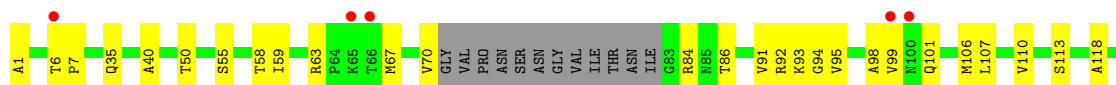
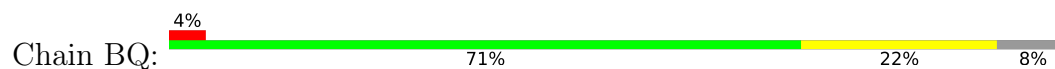


- Molecule 1: coat protein

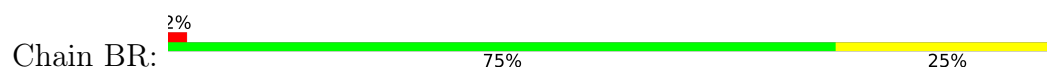




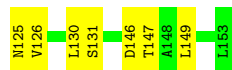
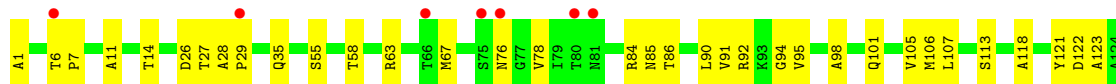
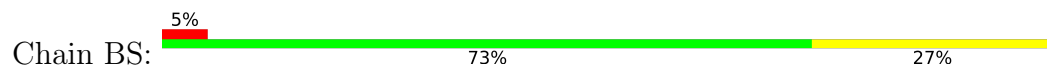
- Molecule 1: coat protein



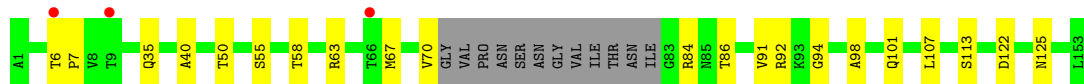
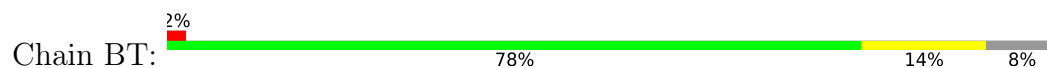
- Molecule 1: coat protein



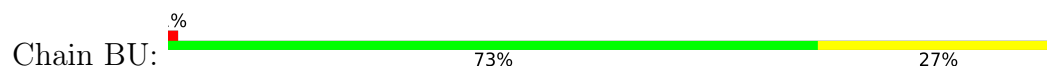
- Molecule 1: coat protein



- Molecule 1: coat protein

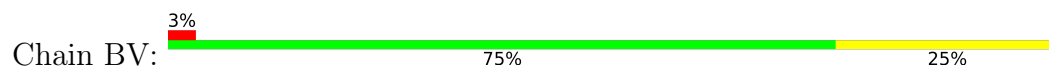


- Molecule 1: coat protein





- Molecule 1: coat protein



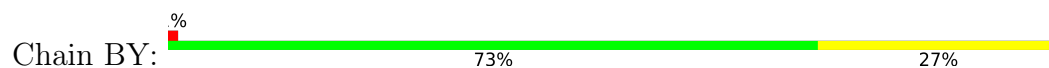
- Molecule 1: coat protein



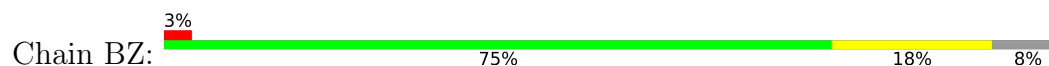
- Molecule 1: coat protein

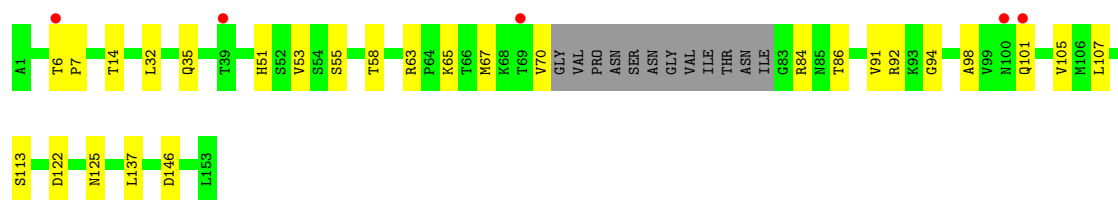


- Molecule 1: coat protein

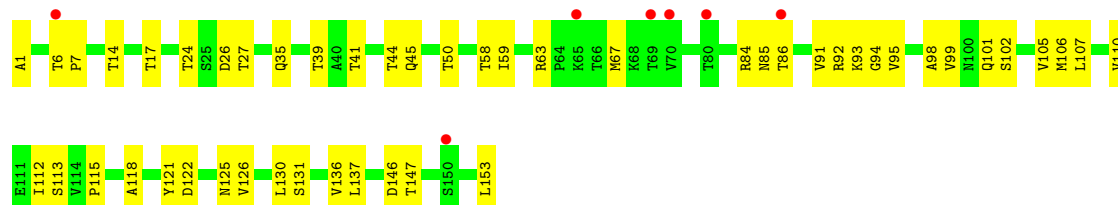


- Molecule 1: coat protein

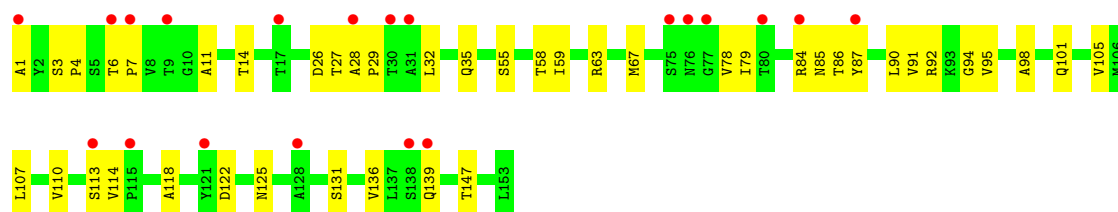
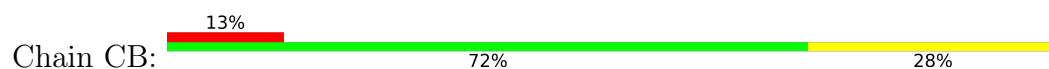




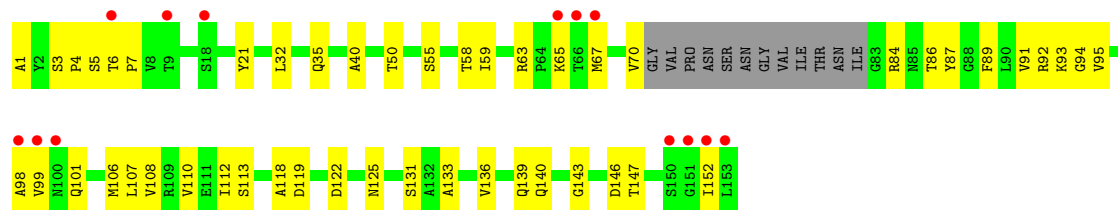
- Molecule 1: coat protein



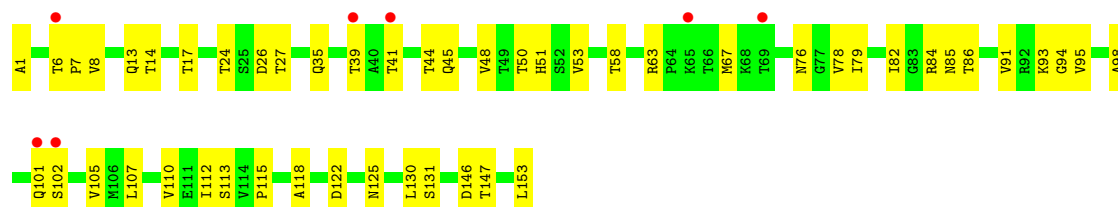
- Molecule 1: coat protein



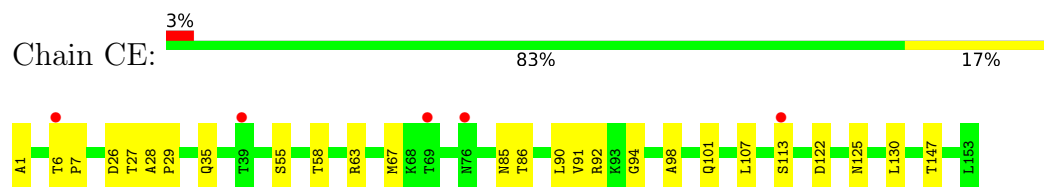
- Molecule 1: coat protein



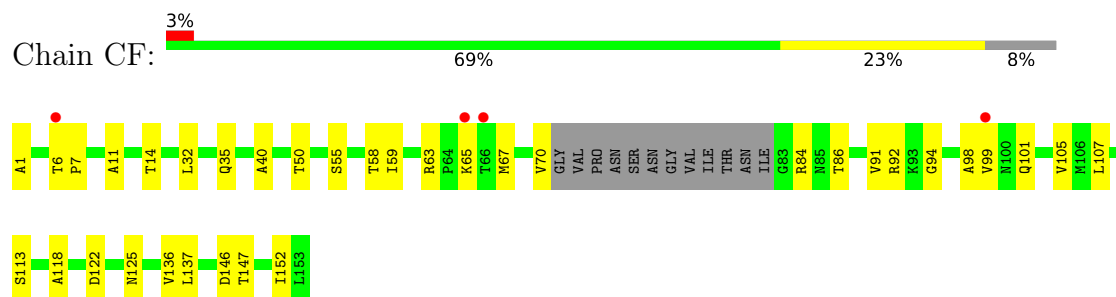
- Molecule 1: coat protein



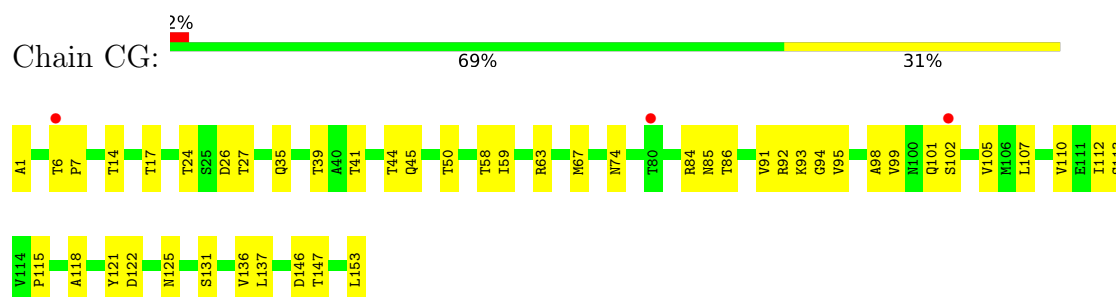
- Molecule 1: coat protein



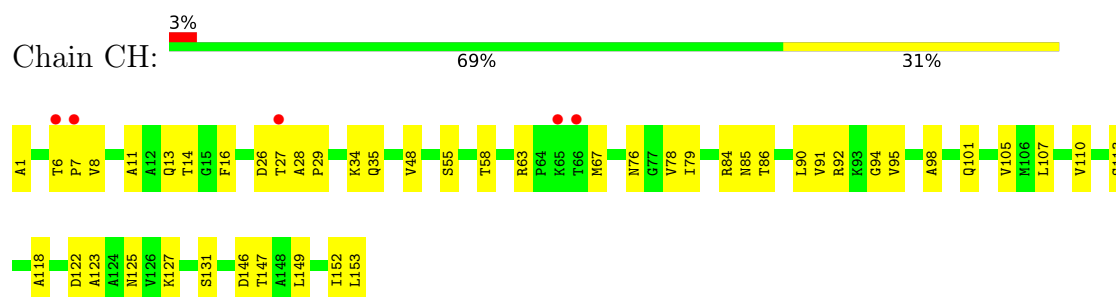
- Molecule 1: coat protein



- Molecule 1: coat protein



- Molecule 1: coat protein



4 Data and refinement statistics

Property	Value	Source
Space group	H 3 2	Depositor
Cell constants a, b, c, α , β , γ	419.73Å 419.73Å 761.14Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	97.45 – 3.30 97.45 – 3.30	Depositor EDS
% Data completeness (in resolution range)	99.1 (97.45-3.30) 99.4 (97.45-3.30)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.42	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.30 (at 3.33Å)	Xtriage
Refinement program	PHENIX 1.14_3260	Depositor
R, R_{free}	0.248 , 0.251 0.255 , 0.256	Depositor DCC
R_{free} test set	10000 reflections (2.63%)	wwPDB-VP
Wilson B-factor (Å ²)	67.4	Xtriage
Anisotropy	0.251	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 42.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.43$, $\langle L^2 \rangle = 0.25$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.87	EDS
Total number of atoms	63520	wwPDB-VP
Average B, all atoms (Å ²)	71.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.16% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality [i](#)

5.1 Standard geometry [i](#)

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	AA	0.24	0/1021	0.49	0/1396
1	AB	0.25	0/1105	0.49	0/1514
1	AC	0.25	0/1105	0.50	0/1514
1	AD	0.24	0/1021	0.49	0/1396
1	AE	0.25	0/1105	0.49	0/1514
1	AF	0.25	0/1105	0.50	0/1514
1	AG	0.24	0/1021	0.49	0/1396
1	AH	0.26	0/1105	0.49	0/1514
1	AI	0.25	0/1105	0.50	0/1514
1	AJ	0.24	0/1021	0.49	0/1396
1	AK	0.26	0/1105	0.49	0/1514
1	AL	0.25	0/1105	0.50	0/1514
1	AM	0.24	0/1021	0.49	0/1396
1	AN	0.26	0/1105	0.49	0/1514
1	AO	0.25	0/1105	0.50	0/1514
1	AP	0.24	0/1021	0.49	0/1396
1	AQ	0.25	0/1105	0.49	0/1514
1	AR	0.25	0/1105	0.50	0/1514
1	AS	0.24	0/1021	0.49	0/1396
1	AT	0.26	0/1105	0.49	0/1514
1	AU	0.25	0/1105	0.50	0/1514
1	AV	0.24	0/1021	0.49	0/1396
1	AW	0.26	0/1105	0.49	0/1514
1	AX	0.25	0/1105	0.50	0/1514
1	AY	0.24	0/1021	0.49	0/1396
1	AZ	0.26	0/1105	0.49	0/1514
1	BA	0.25	0/1105	0.50	0/1514
1	BB	0.24	0/1021	0.49	0/1396
1	BC	0.26	0/1105	0.49	0/1514
1	BD	0.25	0/1105	0.50	0/1514
1	BE	0.24	0/1021	0.49	0/1396
1	BF	0.26	0/1105	0.49	0/1514
1	BG	0.25	0/1105	0.50	0/1514
1	BH	0.24	0/1021	0.49	0/1396

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	BI	0.26	0/1105	0.49	0/1514
1	BJ	0.25	0/1105	0.50	0/1514
1	BK	0.24	0/1021	0.49	0/1396
1	BL	0.25	0/1105	0.49	0/1514
1	BM	0.25	0/1105	0.50	0/1514
1	BN	0.24	0/1021	0.49	0/1396
1	BO	0.26	0/1105	0.48	0/1514
1	BP	0.25	0/1105	0.50	0/1514
1	BQ	0.24	0/1021	0.49	0/1396
1	BR	0.26	0/1105	0.49	0/1514
1	BS	0.25	0/1105	0.50	0/1514
1	BT	0.24	0/1021	0.49	0/1396
1	BU	0.25	0/1105	0.49	0/1514
1	BV	0.25	0/1105	0.50	0/1514
1	BW	0.24	0/1021	0.49	0/1396
1	BX	0.26	0/1105	0.49	0/1514
1	BY	0.25	0/1105	0.50	0/1514
1	BZ	0.24	0/1021	0.49	0/1396
1	CA	0.26	0/1105	0.48	0/1514
1	CB	0.25	0/1105	0.50	0/1514
1	CC	0.24	0/1021	0.49	0/1396
1	CD	0.26	0/1105	0.49	0/1514
1	CE	0.25	0/1105	0.50	0/1514
1	CF	0.24	0/1021	0.49	0/1396
1	CG	0.25	0/1105	0.49	0/1514
1	CH	0.25	0/1105	0.50	0/1514
All	All	0.25	0/64620	0.49	0/88480

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AA	1004	0	1019	27	0
1	AB	1086	0	1103	40	0
1	AC	1086	0	1103	31	0
1	AD	1004	0	1019	33	0
1	AE	1086	0	1103	41	0
1	AF	1086	0	1103	29	0
1	AG	1004	0	1019	39	0
1	AH	1086	0	1103	35	0
1	AI	1086	0	1103	16	2
1	AJ	1004	0	1019	32	0
1	AK	1086	0	1103	51	0
1	AL	1086	0	1103	40	0
1	AM	1004	0	1019	15	3
1	AN	1086	0	1103	42	0
1	AO	1086	0	1103	32	0
1	AP	1004	0	1019	36	0
1	AQ	1086	0	1103	33	0
1	AR	1086	0	1103	37	0
1	AS	1004	0	1019	32	0
1	AT	1086	0	1103	23	1
1	AU	1086	0	1103	29	0
1	AV	1004	0	1019	25	0
1	AW	1086	0	1103	39	0
1	AX	1086	0	1103	41	0
1	AY	1004	0	1019	33	0
1	AZ	1086	0	1103	77	1
1	BA	1086	0	1103	47	0
1	BB	1004	0	1019	34	0
1	BC	1086	0	1103	43	1
1	BD	1086	0	1103	48	0
1	BE	1004	0	1019	30	0
1	BF	1086	0	1103	21	2
1	BG	1086	0	1103	31	0
1	BH	1004	0	1019	37	0
1	BI	1086	0	1103	44	0
1	BJ	1086	0	1103	26	0
1	BK	1004	0	1019	13	3
1	BL	1086	0	1103	37	0
1	BM	1086	0	1103	41	0
1	BN	1004	0	1019	28	0
1	BO	1086	0	1103	21	3
1	BP	1086	0	1103	30	0
1	BQ	1004	0	1019	33	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	BR	1086	0	1103	23	3
1	BS	1086	0	1103	34	0
1	BT	1004	0	1019	13	1
1	BU	1086	0	1103	31	0
1	BV	1086	0	1103	29	0
1	BW	1004	0	1019	34	0
1	BX	1086	0	1103	48	0
1	BY	1086	0	1103	37	0
1	BZ	1004	0	1019	16	2
1	CA	1086	0	1103	41	0
1	CB	1086	0	1103	43	1
1	CC	1004	0	1019	64	0
1	CD	1086	0	1103	51	0
1	CE	1086	0	1103	14	2
1	CF	1004	0	1019	25	0
1	CG	1086	0	1103	38	0
1	CH	1086	0	1103	51	0
All	All	63520	0	64500	1504	13

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 12.

All (1504) 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:AP:84:ARG:NH1	1:CD:105:VAL:O	1.85	1.08
1:AG:84:ARG:NH1	1:AK:105:VAL:O	1.91	1.02
1:AZ:1:ALA:N	1:CC:147:THR:OG1	2.01	0.93
1:AB:147:THR:OG1	1:BW:1:ALA:N	2.02	0.93
1:AE:1:ALA:N	1:BQ:147:THR:OG1	2.05	0.89
1:AW:147:THR:OG1	1:BB:1:ALA:N	2.06	0.89
1:AY:1:ALA:N	1:BC:147:THR:OG1	2.07	0.88
1:AZ:139:GLN:OE1	1:CC:4:PRO:HA	1.76	0.86
1:AD:105:VAL:O	1:AN:84:ARG:NH1	2.09	0.85
1:AS:147:THR:OG1	1:CA:1:ALA:N	2.10	0.85
1:AX:84:ARG:NH1	1:BY:105:VAL:O	2.11	0.84
1:AZ:105:VAL:O	1:CC:84:ARG:NH1	2.10	0.84
1:AL:1:ALA:N	1:BM:147:THR:OG1	2.11	0.84
1:BE:84:ARG:NH1	1:CG:105:VAL:O	2.09	0.84
1:AP:147:THR:OG1	1:CD:1:ALA:N	2.11	0.83
1:CH:98:ALA:HB3	1:CH:101:GLN:HG2	1.61	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:98:ALA:HB3	1:BA:101:GLN:HG2	1.61	0.83
1:AZ:149:LEU:O	1:CD:53:VAL:HG23	1.78	0.83
1:BD:98:ALA:HB3	1:BD:101:GLN:HG2	1.61	0.83
1:AJ:84:ARG:NH1	1:BI:105:VAL:O	2.11	0.82
1:BP:98:ALA:HB3	1:BP:101:GLN:HG2	1.61	0.82
1:AB:1:ALA:N	1:BW:147:THR:OG1	2.12	0.82
1:AL:98:ALA:HB3	1:AL:101:GLN:HG2	1.61	0.82
1:AZ:136:VAL:HG21	1:CC:59:ILE:HD13	1.60	0.82
1:CB:98:ALA:HB3	1:CB:101:GLN:HG2	1.61	0.82
1:AC:98:ALA:HB3	1:AC:101:GLN:HG2	1.61	0.82
1:BH:1:ALA:N	1:BX:147:THR:OG1	2.11	0.82
1:BY:98:ALA:HB3	1:BY:101:GLN:HG2	1.61	0.82
1:BD:131:SER:HB2	1:CH:11:ALA:O	1.78	0.82
1:BS:98:ALA:HB3	1:BS:101:GLN:HG2	1.61	0.82
1:BJ:98:ALA:HB3	1:BJ:101:GLN:HG2	1.61	0.82
1:AJ:147:THR:OG1	1:BI:1:ALA:N	2.13	0.81
1:AP:105:VAL:O	1:CD:84:ARG:NH1	2.13	0.81
1:AS:1:ALA:N	1:CA:147:THR:OG1	2.12	0.81
1:AY:84:ARG:NH1	1:BC:105:VAL:O	2.13	0.81
1:AO:98:ALA:HB3	1:AO:101:GLN:HG2	1.61	0.81
1:BD:84:ARG:NH1	1:CH:105:VAL:O	2.13	0.81
1:BV:98:ALA:HB3	1:BV:101:GLN:HG2	1.61	0.81
1:AF:98:ALA:HB3	1:AF:101:GLN:HG2	1.61	0.81
1:AU:98:ALA:HB3	1:AU:101:GLN:HG2	1.61	0.81
1:BP:55:SER:HB2	1:BP:94:GLY:HA3	1.63	0.81
1:BG:98:ALA:HB3	1:BG:101:GLN:HG2	1.61	0.81
1:BY:55:SER:HB2	1:BY:94:GLY:HA3	1.63	0.81
1:AC:55:SER:HB2	1:AC:94:GLY:HA3	1.63	0.81
1:AD:84:ARG:NH1	1:AN:105:VAL:O	2.13	0.81
1:AI:98:ALA:HB3	1:AI:101:GLN:HG2	1.61	0.81
1:BD:55:SER:HB2	1:BD:94:GLY:HA3	1.63	0.81
1:AX:98:ALA:HB3	1:AX:101:GLN:HG2	1.61	0.81
1:BM:98:ALA:HB3	1:BM:101:GLN:HG2	1.61	0.81
1:AL:55:SER:HB2	1:AL:94:GLY:HA3	1.63	0.80
1:AR:55:SER:HB2	1:AR:94:GLY:HA3	1.63	0.80
1:BA:105:VAL:O	1:CB:84:ARG:NH1	2.14	0.80
1:AR:98:ALA:HB3	1:AR:101:GLN:HG2	1.61	0.80
1:CF:55:SER:HB2	1:CF:94:GLY:HA3	1.64	0.80
1:BA:55:SER:HB2	1:BA:94:GLY:HA3	1.63	0.80
1:BS:55:SER:HB2	1:BS:94:GLY:HA3	1.63	0.80
1:AS:55:SER:HB2	1:AS:94:GLY:HA3	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:55:SER:HB2	1:AM:94:GLY:HA3	1.64	0.80
1:CC:55:SER:HB2	1:CC:94:GLY:HA3	1.64	0.80
1:CE:98:ALA:HB3	1:CE:101:GLN:HG2	1.61	0.80
1:AI:55:SER:HB2	1:AI:94:GLY:HA3	1.63	0.80
1:AX:55:SER:HB2	1:AX:94:GLY:HA3	1.63	0.80
1:BQ:55:SER:HB2	1:BQ:94:GLY:HA3	1.64	0.80
1:AD:55:SER:HB2	1:AD:94:GLY:HA3	1.64	0.80
1:AE:147:THR:OG1	1:BQ:1:ALA:N	2.15	0.80
1:BM:55:SER:HB2	1:BM:94:GLY:HA3	1.63	0.80
1:AF:55:SER:HB2	1:AF:94:GLY:HA3	1.63	0.79
1:AJ:55:SER:HB2	1:AJ:94:GLY:HA3	1.64	0.79
1:AP:55:SER:HB2	1:AP:94:GLY:HA3	1.64	0.79
1:BD:105:VAL:O	1:CH:84:ARG:NH1	2.15	0.79
1:BT:55:SER:HB2	1:BT:94:GLY:HA3	1.64	0.79
1:BV:55:SER:HB2	1:BV:94:GLY:HA3	1.63	0.79
1:BE:147:THR:OG1	1:CG:1:ALA:N	2.16	0.79
1:BZ:55:SER:HB2	1:BZ:94:GLY:HA3	1.64	0.79
1:CB:55:SER:HB2	1:CB:94:GLY:HA3	1.63	0.79
1:AB:105:VAL:O	1:BW:84:ARG:NH1	2.14	0.79
1:BJ:55:SER:HB2	1:BJ:94:GLY:HA3	1.63	0.79
1:CH:55:SER:HB2	1:CH:94:GLY:HA3	1.63	0.79
1:BE:1:ALA:N	1:CG:147:THR:OG1	2.15	0.79
1:BN:55:SER:HB2	1:BN:94:GLY:HA3	1.64	0.79
1:BG:55:SER:HB2	1:BG:94:GLY:HA3	1.63	0.79
1:AG:55:SER:HB2	1:AG:94:GLY:HA3	1.64	0.79
1:AA:55:SER:HB2	1:AA:94:GLY:HA3	1.64	0.79
1:CE:55:SER:HB2	1:CE:94:GLY:HA3	1.63	0.79
1:AO:55:SER:HB2	1:AO:94:GLY:HA3	1.63	0.78
1:AV:55:SER:HB2	1:AV:94:GLY:HA3	1.64	0.78
1:AU:55:SER:HB2	1:AU:94:GLY:HA3	1.63	0.78
1:BB:55:SER:HB2	1:BB:94:GLY:HA3	1.64	0.78
1:BE:55:SER:HB2	1:BE:94:GLY:HA3	1.64	0.78
1:AZ:143:GLY:HA3	1:CC:1:ALA:O	1.84	0.78
1:BK:55:SER:HB2	1:BK:94:GLY:HA3	1.64	0.78
1:BD:11:ALA:O	1:CH:131:SER:HB2	1.83	0.78
1:AP:1:ALA:N	1:CD:147:THR:OG1	2.17	0.77
1:AY:105:VAL:O	1:BC:84:ARG:NH1	2.17	0.77
1:AY:55:SER:HB2	1:AY:94:GLY:HA3	1.64	0.77
1:BW:55:SER:HB2	1:BW:94:GLY:HA3	1.64	0.77
1:AD:1:ALA:N	1:AN:147:THR:OG1	2.17	0.77
1:BH:55:SER:HB2	1:BH:94:GLY:HA3	1.64	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:84:ARG:NH1	1:BG:105:VAL:O	2.18	0.76
1:AX:105:VAL:O	1:BY:84:ARG:NH1	2.18	0.76
1:AD:11:ALA:O	1:AN:131:SER:HB2	1.85	0.76
1:BH:136:VAL:HG21	1:BX:59:ILE:HD13	1.68	0.75
1:AR:72:VAL:HB	1:CD:78:VAL:HG22	1.68	0.74
1:AL:147:THR:OG1	1:BM:1:ALA:N	2.18	0.74
1:AR:1:ALA:N	1:BS:147:THR:OG1	2.19	0.74
1:AR:147:THR:OG1	1:BS:1:ALA:N	2.21	0.73
1:AX:147:THR:OG1	1:BY:1:ALA:N	2.20	0.73
1:AG:105:VAL:O	1:AK:84:ARG:NH1	2.21	0.73
1:AG:70:VAL:HG13	1:AH:102:SER:HB2	1.71	0.73
1:AM:70:VAL:HG13	1:AN:102:SER:HB2	1.71	0.72
1:AP:70:VAL:HG13	1:AQ:102:SER:HB2	1.71	0.72
1:BZ:70:VAL:HG13	1:CA:102:SER:HB2	1.71	0.72
1:AX:1:ALA:N	1:BY:147:THR:OG1	2.20	0.72
1:AZ:95:VAL:HG11	1:CC:118:ALA:HB1	1.72	0.72
1:BN:70:VAL:HG13	1:BO:102:SER:HB2	1.71	0.72
1:BQ:70:VAL:HG13	1:BR:102:SER:HB2	1.71	0.72
1:AA:70:VAL:HG13	1:AB:102:SER:HB2	1.71	0.72
1:BW:70:VAL:HG13	1:BX:102:SER:HB2	1.71	0.72
1:CF:70:VAL:HG13	1:CG:102:SER:HB2	1.71	0.72
1:AV:70:VAL:HG13	1:AW:102:SER:HB2	1.71	0.72
1:BK:70:VAL:HG13	1:BL:102:SER:HB2	1.71	0.72
1:BH:105:VAL:O	1:BX:84:ARG:NH1	2.23	0.71
1:AU:1:ALA:N	1:BV:147:THR:OG1	2.24	0.71
1:BB:70:VAL:HG13	1:BC:102:SER:HB2	1.71	0.71
1:AW:1:ALA:N	1:BB:147:THR:OG1	2.21	0.71
1:BA:151:GLY:CA	1:CB:67:MET:HE3	2.21	0.71
1:AD:70:VAL:HG13	1:AE:102:SER:HB2	1.71	0.71
1:AA:136:VAL:HG21	1:AH:59:ILE:HD13	1.73	0.71
1:AY:70:VAL:HG13	1:AZ:102:SER:HB2	1.71	0.71
1:AZ:121:TYR:CE1	1:CC:99:VAL:HA	2.25	0.71
1:BN:98:ALA:HB3	1:BN:101:GLN:HG2	1.73	0.71
1:AG:98:ALA:HB3	1:AG:101:GLN:HG2	1.73	0.70
1:AJ:70:VAL:HG13	1:AK:102:SER:HB2	1.71	0.70
1:AP:11:ALA:O	1:CD:131:SER:HB2	1.90	0.70
1:BB:98:ALA:HB3	1:BB:101:GLN:HG2	1.73	0.70
1:BE:70:VAL:HG13	1:BF:102:SER:HB2	1.71	0.70
1:CC:70:VAL:HG13	1:CD:102:SER:HB2	1.71	0.70
1:BQ:98:ALA:HB3	1:BQ:101:GLN:HG2	1.73	0.70
1:BZ:98:ALA:HB3	1:BZ:101:GLN:HG2	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:131:SER:HB2	1:BP:11:ALA:O	1.90	0.70
1:AP:98:ALA:HB3	1:AP:101:GLN:HG2	1.73	0.70
1:AS:70:VAL:HG13	1:AT:102:SER:HB2	1.71	0.70
1:AS:98:ALA:HB3	1:AS:101:GLN:HG2	1.73	0.70
1:AA:98:ALA:HB3	1:AA:101:GLN:HG2	1.73	0.70
1:AY:98:ALA:HB3	1:AY:101:GLN:HG2	1.73	0.70
1:BT:70:VAL:HG13	1:BU:102:SER:HB2	1.71	0.70
1:CC:98:ALA:HB3	1:CC:101:GLN:HG2	1.73	0.70
1:AD:98:ALA:HB3	1:AD:101:GLN:HG2	1.73	0.70
1:AG:147:THR:OG1	1:AK:1:ALA:N	2.21	0.70
1:AO:84:ARG:NH1	1:BP:105:VAL:O	2.25	0.69
1:AY:11:ALA:O	1:BC:131:SER:HB2	1.91	0.69
1:BH:70:VAL:HG13	1:BI:102:SER:HB2	1.71	0.69
1:AM:98:ALA:HB3	1:AM:101:GLN:HG2	1.73	0.69
1:AZ:129:ALA:HB2	1:CC:93:LYS:CB	2.22	0.69
1:BW:98:ALA:HB3	1:BW:101:GLN:HG2	1.73	0.69
1:AL:105:VAL:O	1:BM:84:ARG:NH1	2.24	0.69
1:AU:147:THR:OG1	1:BV:1:ALA:N	2.25	0.69
1:AJ:98:ALA:HB3	1:AJ:101:GLN:HG2	1.73	0.69
1:AS:84:ARG:NH1	1:CA:105:VAL:O	2.23	0.69
1:BH:98:ALA:HB3	1:BH:101:GLN:HG2	1.73	0.69
1:BT:98:ALA:HB3	1:BT:101:GLN:HG2	1.73	0.69
1:AV:98:ALA:HB3	1:AV:101:GLN:HG2	1.73	0.69
1:BK:98:ALA:HB3	1:BK:101:GLN:HG2	1.73	0.68
1:BE:98:ALA:HB3	1:BE:101:GLN:HG2	1.73	0.68
1:CF:98:ALA:HB3	1:CF:101:GLN:HG2	1.73	0.68
1:BH:11:ALA:O	1:BX:131:SER:HB2	1.94	0.68
1:AC:147:THR:OG1	1:BG:1:ALA:N	2.26	0.68
1:AS:99:VAL:HA	1:CA:121:TYR:CE1	2.29	0.67
1:BD:147:THR:OG1	1:CH:1:ALA:N	2.26	0.67
1:BL:147:THR:OG1	1:BN:1:ALA:N	2.27	0.67
1:AU:11:ALA:O	1:BV:131:SER:HB2	1.93	0.67
1:AX:118:ALA:HB1	1:BY:95:VAL:HG11	1.76	0.67
1:AG:63:ARG:HH11	1:AG:67:MET:HE2	1.60	0.67
1:AP:125:ASN:OD1	1:CD:48:VAL:HA	1.95	0.67
1:AZ:140:GLN:NE2	1:CC:3:SER:O	2.27	0.67
1:AP:118:ALA:HB1	1:CD:95:VAL:HG11	1.77	0.67
1:AY:147:THR:OG1	1:BC:1:ALA:N	2.26	0.67
1:BH:63:ARG:HH11	1:BH:67:MET:HE2	1.60	0.67
1:AG:125:ASN:OD1	1:AK:48:VAL:HA	1.94	0.67
1:AR:105:VAL:O	1:BS:84:ARG:NH1	2.26	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AU:131:SER:HB2	1:BV:11:ALA:O	1.95	0.67
1:BH:137:LEU:HD11	1:BX:110:VAL:HG21	1.77	0.67
1:BW:63:ARG:HH11	1:BW:67:MET:HE2	1.60	0.67
1:CF:63:ARG:HH11	1:CF:67:MET:HE2	1.60	0.67
1:AG:34:LYS:HD2	1:AK:153:LEU:HB3	1.77	0.67
1:AY:63:ARG:HH11	1:AY:67:MET:HE2	1.60	0.67
1:BE:63:ARG:HH11	1:BE:67:MET:HE2	1.60	0.67
1:AD:63:ARG:HH11	1:AD:67:MET:HE2	1.60	0.67
1:AV:63:ARG:HH11	1:AV:67:MET:HE2	1.60	0.67
1:AB:131:SER:HB2	1:BW:11:ALA:O	1.94	0.67
1:BB:63:ARG:HH11	1:BB:67:MET:HE2	1.60	0.67
1:BK:63:ARG:HH11	1:BK:67:MET:HE2	1.60	0.67
1:BQ:63:ARG:HH11	1:BQ:67:MET:HE2	1.60	0.66
1:AM:63:ARG:HH11	1:AM:67:MET:HE2	1.60	0.66
1:AE:84:ARG:HG2	1:AE:115:PRO:HA	1.78	0.66
1:AJ:63:ARG:HH11	1:AJ:67:MET:HE2	1.60	0.66
1:CH:63:ARG:HH11	1:CH:67:MET:HE2	1.61	0.66
1:AK:84:ARG:HG2	1:AK:115:PRO:HA	1.78	0.66
1:BA:63:ARG:HH11	1:BA:67:MET:HE2	1.61	0.66
1:BF:84:ARG:HG2	1:BF:115:PRO:HA	1.78	0.66
1:BZ:63:ARG:HH11	1:BZ:67:MET:HE2	1.60	0.66
1:AF:63:ARG:HH11	1:AF:67:MET:HE2	1.61	0.66
1:AU:63:ARG:HH11	1:AU:67:MET:HE2	1.61	0.66
1:BG:63:ARG:HH11	1:BG:67:MET:HE2	1.61	0.66
1:BL:84:ARG:HG2	1:BL:115:PRO:HA	1.78	0.66
1:BP:63:ARG:HH11	1:BP:67:MET:HE2	1.61	0.66
1:AZ:121:TYR:CZ	1:CC:99:VAL:HA	2.30	0.66
1:BM:63:ARG:HH11	1:BM:67:MET:HE2	1.61	0.66
1:BS:63:ARG:HH11	1:BS:67:MET:HE2	1.61	0.66
1:AZ:84:ARG:HG2	1:AZ:115:PRO:HA	1.78	0.66
1:CD:84:ARG:HG2	1:CD:115:PRO:HA	1.78	0.66
1:CE:63:ARG:HH11	1:CE:67:MET:HE2	1.61	0.66
1:AR:63:ARG:HH11	1:AR:67:MET:HE2	1.61	0.66
1:AT:84:ARG:HG2	1:AT:115:PRO:HA	1.78	0.66
1:BT:63:ARG:HH11	1:BT:67:MET:HE2	1.60	0.66
1:CB:63:ARG:HH11	1:CB:67:MET:HE2	1.61	0.66
1:AH:84:ARG:HG2	1:AH:115:PRO:HA	1.78	0.66
1:AO:63:ARG:HH11	1:AO:67:MET:HE2	1.61	0.66
1:BI:84:ARG:HG2	1:BI:115:PRO:HA	1.78	0.66
1:BR:84:ARG:HG2	1:BR:115:PRO:HA	1.78	0.66
1:AQ:84:ARG:HG2	1:AQ:115:PRO:HA	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AX:11:ALA:O	1:BY:131:SER:HB2	1.96	0.65
1:AX:63:ARG:HH11	1:AX:67:MET:HE2	1.61	0.65
1:AZ:137:LEU:HD11	1:CC:110:VAL:HG21	1.78	0.65
1:AC:1:ALA:N	1:BG:147:THR:OG1	2.27	0.65
1:AC:63:ARG:HH11	1:AC:67:MET:HE2	1.61	0.65
1:BY:63:ARG:HH11	1:BY:67:MET:HE2	1.61	0.65
1:CA:84:ARG:HG2	1:CA:115:PRO:HA	1.78	0.65
1:CC:63:ARG:HH11	1:CC:67:MET:HE2	1.60	0.65
1:AB:84:ARG:HG2	1:AB:115:PRO:HA	1.78	0.65
1:AS:99:VAL:HA	1:CA:121:TYR:CZ	2.32	0.65
1:BC:41:THR:HB	1:BC:45:GLN:HE21	1.62	0.65
1:BX:84:ARG:HG2	1:BX:115:PRO:HA	1.78	0.65
1:AR:11:ALA:O	1:BS:131:SER:HB2	1.95	0.65
1:AS:63:ARG:HH11	1:AS:67:MET:HE2	1.60	0.65
1:BU:84:ARG:HG2	1:BU:115:PRO:HA	1.78	0.65
1:AL:63:ARG:HH11	1:AL:67:MET:HE2	1.61	0.65
1:BA:1:ALA:N	1:CB:147:THR:OG1	2.30	0.65
1:BI:41:THR:HB	1:BI:45:GLN:HE21	1.62	0.65
1:BN:63:ARG:HH11	1:BN:67:MET:HE2	1.60	0.65
1:CG:41:THR:HB	1:CG:45:GLN:HE21	1.62	0.65
1:AL:11:ALA:O	1:BM:131:SER:HB2	1.97	0.65
1:BC:84:ARG:HG2	1:BC:115:PRO:HA	1.78	0.65
1:BX:41:THR:HB	1:BX:45:GLN:HE21	1.62	0.65
1:AP:63:ARG:HH11	1:AP:67:MET:HE2	1.60	0.65
1:AA:1:ALA:N	1:AH:147:THR:OG1	2.29	0.65
1:AB:41:THR:HB	1:AB:45:GLN:HE21	1.62	0.65
1:BO:84:ARG:HG2	1:BO:115:PRO:HA	1.78	0.65
1:AX:131:SER:HB2	1:BY:11:ALA:O	1.96	0.65
1:BA:11:ALA:O	1:CB:131:SER:HB2	1.96	0.65
1:BD:63:ARG:HH11	1:BD:67:MET:HE2	1.61	0.65
1:BJ:63:ARG:HH11	1:BJ:67:MET:HE2	1.61	0.65
1:BL:1:ALA:N	1:BN:147:THR:OG1	2.27	0.65
1:AA:63:ARG:HH11	1:AA:67:MET:HE2	1.60	0.64
1:AE:41:THR:HB	1:AE:45:GLN:HE21	1.62	0.64
1:AT:41:THR:HB	1:AT:45:GLN:HE21	1.62	0.64
1:AZ:41:THR:HB	1:AZ:45:GLN:HE21	1.62	0.64
1:BL:41:THR:HB	1:BL:45:GLN:HE21	1.62	0.64
1:AG:1:ALA:N	1:AK:147:THR:OG1	2.28	0.64
1:AJ:1:ALA:N	1:BI:147:THR:OG1	2.29	0.64
1:AW:99:VAL:HA	1:BB:121:TYR:CE1	2.32	0.64
1:BU:147:THR:OG1	1:CF:1:ALA:N	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CD:41:THR:HB	1:CD:45:GLN:HE21	1.62	0.64
1:AW:84:ARG:HG2	1:AW:115:PRO:HA	1.78	0.64
1:CA:41:THR:HB	1:CA:45:GLN:HE21	1.62	0.64
1:CG:84:ARG:HG2	1:CG:115:PRO:HA	1.78	0.64
1:AQ:41:THR:HB	1:AQ:45:GLN:HE21	1.62	0.64
1:AI:63:ARG:HH11	1:AI:67:MET:HE2	1.61	0.64
1:BD:1:ALA:N	1:CH:147:THR:OG1	2.30	0.64
1:AB:107:LEU:HB3	1:BW:113:SER:OG	1.98	0.64
1:AZ:126:VAL:HA	1:CC:106:MET:SD	2.38	0.64
1:AZ:133:ALA:HB2	1:CC:91:VAL:HG21	1.78	0.64
1:BU:41:THR:HB	1:BU:45:GLN:HE21	1.62	0.64
1:AK:41:THR:HB	1:AK:45:GLN:HE21	1.62	0.64
1:AN:84:ARG:HG2	1:AN:115:PRO:HA	1.78	0.64
1:AP:95:VAL:HG11	1:CD:118:ALA:HB1	1.80	0.64
1:AU:84:ARG:NH1	1:BV:105:VAL:O	2.31	0.64
1:AW:131:SER:HB2	1:BB:11:ALA:O	1.97	0.64
1:AH:41:THR:HB	1:AH:45:GLN:HE21	1.62	0.63
1:AQ:131:SER:HB2	1:AV:11:ALA:O	1.97	0.63
1:AU:105:VAL:O	1:BV:84:ARG:NH1	2.32	0.63
1:BA:136:VAL:HG21	1:CB:59:ILE:HD13	1.80	0.63
1:AE:121:TYR:CE1	1:BQ:99:VAL:HA	2.33	0.63
1:BF:41:THR:HB	1:BF:45:GLN:HE21	1.62	0.63
1:AD:95:VAL:HG11	1:AN:118:ALA:HB1	1.81	0.63
1:AI:35:GLN:HE21	1:AI:58:THR:HB	1.64	0.63
1:BD:35:GLN:HE21	1:BD:58:THR:HB	1.64	0.63
1:BP:35:GLN:HE21	1:BP:58:THR:HB	1.64	0.63
1:BV:35:GLN:HE21	1:BV:58:THR:HB	1.64	0.63
1:BV:63:ARG:HH11	1:BV:67:MET:HE2	1.61	0.63
1:AW:106:MET:SD	1:BB:126:VAL:HA	2.38	0.63
1:BA:151:GLY:HA2	1:CB:67:MET:HE3	1.80	0.63
1:BM:35:GLN:HE21	1:BM:58:THR:HB	1.64	0.63
1:CH:35:GLN:HE21	1:CH:58:THR:HB	1.64	0.63
1:AJ:59:ILE:HD13	1:BI:136:VAL:HG21	1.81	0.63
1:AR:131:SER:HB2	1:BS:11:ALA:O	1.98	0.63
1:AU:35:GLN:HE21	1:AU:58:THR:HB	1.64	0.63
1:BQ:35:GLN:HE21	1:BQ:58:THR:HB	1.64	0.63
1:AL:35:GLN:HE21	1:AL:58:THR:HB	1.64	0.63
1:AN:41:THR:HB	1:AN:45:GLN:HE21	1.62	0.63
1:AV:35:GLN:HE21	1:AV:58:THR:HB	1.64	0.63
1:AW:41:THR:HB	1:AW:45:GLN:HE21	1.62	0.63
1:BR:41:THR:HB	1:BR:45:GLN:HE21	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:118:ALA:HB1	1:BI:95:VAL:HG11	1.81	0.63
1:BA:35:GLN:HE21	1:BA:58:THR:HB	1.64	0.63
1:BO:41:THR:HB	1:BO:45:GLN:HE21	1.62	0.63
1:AR:35:GLN:HE21	1:AR:58:THR:HB	1.64	0.63
1:BW:35:GLN:HE21	1:BW:58:THR:HB	1.64	0.63
1:CC:35:GLN:HE21	1:CC:58:THR:HB	1.64	0.63
1:CF:35:GLN:HE21	1:CF:58:THR:HB	1.64	0.63
1:AC:105:VAL:O	1:BG:84:ARG:NH1	2.31	0.62
1:AF:35:GLN:HE21	1:AF:58:THR:HB	1.64	0.62
1:AK:35:GLN:HE21	1:AK:58:THR:HB	1.64	0.62
1:AM:35:GLN:HE21	1:AM:58:THR:HB	1.64	0.62
1:BG:35:GLN:HE21	1:BG:58:THR:HB	1.64	0.62
1:BI:35:GLN:HE21	1:BI:58:THR:HB	1.64	0.62
1:AA:147:THR:OG1	1:AH:1:ALA:N	2.32	0.62
1:AD:48:VAL:HA	1:AN:125:ASN:OD1	1.98	0.62
1:AF:147:THR:OG1	1:BJ:1:ALA:N	2.31	0.62
1:AG:35:GLN:HE21	1:AG:58:THR:HB	1.64	0.62
1:AH:35:GLN:HE21	1:AH:58:THR:HB	1.65	0.62
1:AD:147:THR:OG1	1:AN:1:ALA:N	2.31	0.62
1:BR:35:GLN:HE21	1:BR:58:THR:HB	1.64	0.62
1:BU:35:GLN:HE21	1:BU:58:THR:HB	1.65	0.62
1:AO:35:GLN:HE21	1:AO:58:THR:HB	1.64	0.62
1:AQ:35:GLN:HE21	1:AQ:58:THR:HB	1.64	0.62
1:BX:35:GLN:HE21	1:BX:58:THR:HB	1.65	0.62
1:BZ:35:GLN:HE21	1:BZ:58:THR:HB	1.64	0.62
1:CA:35:GLN:HE21	1:CA:58:THR:HB	1.65	0.62
1:AG:11:ALA:O	1:AK:131:SER:HB2	1.98	0.62
1:AY:95:VAL:HG11	1:BC:118:ALA:HB1	1.82	0.62
1:AZ:126:VAL:HG13	1:CC:106:MET:SD	2.39	0.62
1:BC:35:GLN:HE21	1:BC:58:THR:HB	1.65	0.62
1:BF:35:GLN:HE21	1:BF:58:THR:HB	1.64	0.62
1:AD:35:GLN:HE21	1:AD:58:THR:HB	1.64	0.62
1:AW:35:GLN:HE21	1:AW:58:THR:HB	1.64	0.62
1:BL:35:GLN:HE21	1:BL:58:THR:HB	1.65	0.62
1:BS:35:GLN:HE21	1:BS:58:THR:HB	1.64	0.62
1:AA:35:GLN:HE21	1:AA:58:THR:HB	1.64	0.62
1:AC:131:SER:HB2	1:BG:11:ALA:O	1.99	0.62
1:AG:118:ALA:HB1	1:AK:95:VAL:HG11	1.80	0.62
1:CB:35:GLN:HE21	1:CB:58:THR:HB	1.64	0.62
1:AB:35:GLN:HE21	1:AB:58:THR:HB	1.64	0.62
1:AE:98:ALA:HB3	1:AE:101:GLN:HB2	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AS:35:GLN:HE21	1:AS:58:THR:HB	1.64	0.62
1:BX:98:ALA:HB3	1:BX:101:GLN:HB2	1.82	0.62
1:CG:98:ALA:HB3	1:CG:101:GLN:HB2	1.82	0.62
1:AN:35:GLN:HE21	1:AN:58:THR:HB	1.64	0.62
1:CG:35:GLN:HE21	1:CG:58:THR:HB	1.64	0.62
1:AB:98:ALA:HB3	1:AB:101:GLN:HB2	1.82	0.61
1:BO:98:ALA:HB3	1:BO:101:GLN:HB2	1.82	0.61
1:CE:35:GLN:HE21	1:CE:58:THR:HB	1.64	0.61
1:AN:98:ALA:HB3	1:AN:101:GLN:HB2	1.82	0.61
1:AO:105:VAL:O	1:BP:84:ARG:NH1	2.32	0.61
1:AQ:147:THR:OG1	1:AV:1:ALA:N	2.33	0.61
1:AT:35:GLN:HE21	1:AT:58:THR:HB	1.64	0.61
1:AW:98:ALA:HB3	1:AW:101:GLN:HB2	1.82	0.61
1:AE:35:GLN:HE21	1:AE:58:THR:HB	1.65	0.61
1:BH:35:GLN:HE21	1:BH:58:THR:HB	1.64	0.61
1:AO:11:ALA:O	1:BP:131:SER:HB2	2.00	0.61
1:AP:35:GLN:HE21	1:AP:58:THR:HB	1.64	0.61
1:AT:98:ALA:HB3	1:AT:101:GLN:HB2	1.82	0.61
1:AZ:35:GLN:HE21	1:AZ:58:THR:HB	1.65	0.61
1:BJ:35:GLN:HE21	1:BJ:58:THR:HB	1.64	0.61
1:BK:35:GLN:HE21	1:BK:58:THR:HB	1.64	0.61
1:BO:35:GLN:HE21	1:BO:58:THR:HB	1.64	0.61
1:AQ:98:ALA:HB3	1:AQ:101:GLN:HB2	1.82	0.61
1:AZ:98:ALA:HB3	1:AZ:101:GLN:HB2	1.82	0.61
1:BE:11:ALA:O	1:CG:131:SER:HB2	2.01	0.61
1:BE:105:VAL:O	1:CG:84:ARG:NH1	2.34	0.61
1:BH:151:GLY:CA	1:BX:67:MET:HE3	2.30	0.61
1:BU:1:ALA:N	1:CF:147:THR:OG1	2.33	0.61
1:BY:35:GLN:HE21	1:BY:58:THR:HB	1.64	0.61
1:AC:35:GLN:HE21	1:AC:58:THR:HB	1.64	0.61
1:AE:41:THR:HB	1:AE:45:GLN:NE2	2.16	0.61
1:AZ:1:ALA:O	1:CC:143:GLY:HA3	2.01	0.61
1:AZ:140:GLN:OE1	1:CC:3:SER:N	2.23	0.61
1:BU:41:THR:HB	1:BU:45:GLN:NE2	2.16	0.61
1:CD:41:THR:HB	1:CD:45:GLN:NE2	2.16	0.61
1:AO:147:THR:OG1	1:BP:1:ALA:N	2.29	0.61
1:AY:118:ALA:HB1	1:BC:95:VAL:HG11	1.82	0.61
1:BI:41:THR:HB	1:BI:45:GLN:NE2	2.16	0.61
1:CD:35:GLN:HE21	1:CD:58:THR:HB	1.64	0.61
1:BB:35:GLN:HE21	1:BB:58:THR:HB	1.64	0.61
1:BE:35:GLN:HE21	1:BE:58:THR:HB	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AY:35:GLN:HE21	1:AY:58:THR:HB	1.64	0.61
1:BT:35:GLN:HE21	1:BT:58:THR:HB	1.64	0.61
1:AE:105:VAL:O	1:BQ:84:ARG:NH1	2.26	0.61
1:AH:98:ALA:HB3	1:AH:101:GLN:HB2	1.82	0.61
1:AN:41:THR:HB	1:AN:45:GLN:NE2	2.16	0.61
1:AQ:41:THR:HB	1:AQ:45:GLN:NE2	2.16	0.61
1:AZ:5:SER:HB2	1:CC:139:GLN:NE2	2.16	0.61
1:BX:41:THR:HB	1:BX:45:GLN:NE2	2.16	0.61
1:CA:41:THR:HB	1:CA:45:GLN:NE2	2.16	0.61
1:AB:41:THR:HB	1:AB:45:GLN:NE2	2.16	0.60
1:AJ:35:GLN:HE21	1:AJ:58:THR:HB	1.64	0.60
1:AT:41:THR:HB	1:AT:45:GLN:NE2	2.16	0.60
1:BL:98:ALA:HB3	1:BL:101:GLN:HB2	1.82	0.60
1:BR:98:ALA:HB3	1:BR:101:GLN:HB2	1.82	0.60
1:AH:41:THR:HB	1:AH:45:GLN:NE2	2.16	0.60
1:BN:35:GLN:HE21	1:BN:58:THR:HB	1.64	0.60
1:CA:98:ALA:HB3	1:CA:101:GLN:HB2	1.82	0.60
1:AK:98:ALA:HB3	1:AK:101:GLN:HB2	1.82	0.60
1:AW:41:THR:HB	1:AW:45:GLN:NE2	2.16	0.60
1:BO:41:THR:HB	1:BO:45:GLN:NE2	2.16	0.60
1:CG:41:THR:HB	1:CG:45:GLN:NE2	2.16	0.60
1:AZ:41:THR:HB	1:AZ:45:GLN:NE2	2.16	0.60
1:BC:41:THR:HB	1:BC:45:GLN:NE2	2.16	0.60
1:BL:41:THR:HB	1:BL:45:GLN:NE2	2.16	0.60
1:AZ:133:ALA:CB	1:CC:91:VAL:HG21	2.31	0.60
1:CD:98:ALA:HB3	1:CD:101:GLN:HB2	1.82	0.60
1:BF:41:THR:HB	1:BF:45:GLN:NE2	2.16	0.60
1:BR:41:THR:HB	1:BR:45:GLN:NE2	2.16	0.60
1:AR:84:ARG:NH1	1:BS:105:VAL:O	2.34	0.60
1:BC:98:ALA:HB3	1:BC:101:GLN:HB2	1.82	0.60
1:BF:98:ALA:HB3	1:BF:101:GLN:HB2	1.82	0.60
1:BA:137:LEU:HD11	1:CB:110:VAL:HG21	1.84	0.60
1:BI:98:ALA:HB3	1:BI:101:GLN:HB2	1.82	0.60
1:BN:6:THR:HB	1:BN:7:PRO:HD3	1.84	0.60
1:BU:98:ALA:HB3	1:BU:101:GLN:HB2	1.82	0.60
1:AA:59:ILE:HD13	1:AH:136:VAL:HG21	1.84	0.59
1:AX:35:GLN:HE21	1:AX:58:THR:HB	1.64	0.59
1:AF:72:VAL:HB	1:AN:78:VAL:HG22	1.84	0.59
1:BH:6:THR:HB	1:BH:7:PRO:HD3	1.84	0.59
1:BH:139:GLN:OE1	1:BX:4:PRO:HA	2.02	0.59
1:AL:84:ARG:NH1	1:BM:105:VAL:O	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:6:THR:HB	1:AP:7:PRO:HD3	1.84	0.59
1:AF:84:ARG:NH1	1:BJ:105:VAL:O	2.35	0.59
1:BQ:6:THR:HB	1:BQ:7:PRO:HD3	1.85	0.59
1:BZ:6:THR:HB	1:BZ:7:PRO:HD3	1.84	0.59
1:AC:118:ALA:HB1	1:BG:95:VAL:HG11	1.83	0.59
1:AK:41:THR:HB	1:AK:45:GLN:NE2	2.16	0.59
1:AL:76:ASN:HD21	1:BL:75:SER:HA	1.68	0.59
1:BH:95:VAL:HG11	1:BX:118:ALA:HB1	1.84	0.59
1:BK:6:THR:HB	1:BK:7:PRO:HD3	1.84	0.59
1:BT:6:THR:HB	1:BT:7:PRO:HD3	1.84	0.59
1:BE:6:THR:HB	1:BE:7:PRO:HD3	1.84	0.59
1:AZ:110:VAL:HG22	1:CC:110:VAL:HG22	1.83	0.59
1:BU:59:ILE:HD13	1:CF:136:VAL:HG21	1.85	0.59
1:BW:6:THR:HB	1:BW:7:PRO:HD3	1.84	0.59
1:AF:1:ALA:N	1:BJ:147:THR:OG1	2.35	0.59
1:AS:6:THR:HB	1:AS:7:PRO:HD3	1.84	0.59
1:CC:6:THR:HB	1:CC:7:PRO:HD3	1.84	0.59
1:AC:11:ALA:O	1:BG:131:SER:HB2	2.01	0.58
1:AM:6:THR:HB	1:AM:7:PRO:HD3	1.84	0.58
1:AN:6:THR:HB	1:AN:7:PRO:HD3	1.85	0.58
1:AQ:59:ILE:HD13	1:AV:136:VAL:HG21	1.85	0.58
1:AX:110:VAL:HG22	1:BY:110:VAL:HG22	1.84	0.58
1:AZ:5:SER:HB2	1:CC:139:GLN:HE22	1.66	0.58
1:CA:6:THR:HB	1:CA:7:PRO:HD3	1.85	0.58
1:AH:6:THR:HB	1:AH:7:PRO:HD3	1.85	0.58
1:AT:6:THR:HB	1:AT:7:PRO:HD3	1.85	0.58
1:AZ:59:ILE:HD13	1:CC:136:VAL:HG21	1.85	0.58
1:AE:6:THR:HB	1:AE:7:PRO:HD3	1.85	0.58
1:AP:34:LYS:HD2	1:CD:153:LEU:HB3	1.85	0.58
1:AW:63:ARG:HH11	1:AW:67:MET:HE2	1.69	0.58
1:AZ:131:SER:HG	1:CC:21:TYR:HE2	1.49	0.58
1:BL:59:ILE:HD13	1:BN:136:VAL:HG21	1.85	0.58
1:BO:63:ARG:HH11	1:BO:67:MET:HE2	1.69	0.58
1:BA:48:VAL:HA	1:CB:125:ASN:OD1	2.03	0.58
1:BF:6:THR:HB	1:BF:7:PRO:HD3	1.85	0.58
1:BJ:6:THR:HB	1:BJ:7:PRO:HD3	1.86	0.58
1:AD:6:THR:HB	1:AD:7:PRO:HD3	1.84	0.58
1:AI:6:THR:HB	1:AI:7:PRO:HD3	1.86	0.58
1:BB:6:THR:HB	1:BB:7:PRO:HD3	1.84	0.58
1:BR:63:ARG:HH11	1:BR:67:MET:HE2	1.69	0.58
1:BV:6:THR:HB	1:BV:7:PRO:HD3	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BY:6:THR:HB	1:BY:7:PRO:HD3	1.86	0.58
1:AL:6:THR:HB	1:AL:7:PRO:HD3	1.86	0.58
1:AL:78:VAL:HG11	1:BL:72:VAL:HG11	1.86	0.58
1:BL:6:THR:HB	1:BL:7:PRO:HD3	1.85	0.58
1:AC:6:THR:HB	1:AC:7:PRO:HD3	1.86	0.58
1:AK:6:THR:HB	1:AK:7:PRO:HD3	1.85	0.58
1:AV:6:THR:HB	1:AV:7:PRO:HD3	1.84	0.58
1:BC:6:THR:HB	1:BC:7:PRO:HD3	1.85	0.58
1:BF:63:ARG:HH11	1:BF:67:MET:HE2	1.69	0.58
1:CF:6:THR:HB	1:CF:7:PRO:HD3	1.84	0.58
1:CG:6:THR:HB	1:CG:7:PRO:HD3	1.85	0.58
1:CH:6:THR:HB	1:CH:7:PRO:HD3	1.86	0.58
1:AG:6:THR:HB	1:AG:7:PRO:HD3	1.84	0.58
1:AR:6:THR:HB	1:AR:7:PRO:HD3	1.86	0.58
1:AY:6:THR:HB	1:AY:7:PRO:HD3	1.84	0.58
1:BC:63:ARG:HH11	1:BC:67:MET:HE2	1.69	0.58
1:BU:6:THR:HB	1:BU:7:PRO:HD3	1.85	0.58
1:AB:95:VAL:HG11	1:BW:118:ALA:HB1	1.86	0.58
1:AE:126:VAL:HA	1:BQ:106:MET:SD	2.44	0.58
1:AJ:6:THR:HB	1:AJ:7:PRO:HD3	1.84	0.58
1:BD:6:THR:HB	1:BD:7:PRO:HD3	1.86	0.58
1:BO:6:THR:HB	1:BO:7:PRO:HD3	1.86	0.58
1:BP:6:THR:HB	1:BP:7:PRO:HD3	1.86	0.58
1:CB:6:THR:HB	1:CB:7:PRO:HD3	1.86	0.58
1:AA:6:THR:HB	1:AA:7:PRO:HD3	1.84	0.58
1:AE:121:TYR:CZ	1:BQ:99:VAL:HA	2.39	0.58
1:AO:6:THR:HB	1:AO:7:PRO:HD3	1.86	0.58
1:AQ:63:ARG:HH11	1:AQ:67:MET:HE2	1.69	0.57
1:AU:6:THR:HB	1:AU:7:PRO:HD3	1.86	0.57
1:BA:95:VAL:HG11	1:CB:118:ALA:HB1	1.86	0.57
1:CG:63:ARG:HH11	1:CG:67:MET:HE2	1.69	0.57
1:AE:63:ARG:HH11	1:AE:67:MET:HE2	1.69	0.57
1:AP:110:VAL:HG22	1:CD:110:VAL:HG22	1.86	0.57
1:AY:136:VAL:HG21	1:BC:59:ILE:HD13	1.85	0.57
1:CD:6:THR:HB	1:CD:7:PRO:HD3	1.85	0.57
1:AZ:5:SER:N	1:CC:139:GLN:OE1	2.37	0.57
1:BG:6:THR:HB	1:BG:7:PRO:HD3	1.86	0.57
1:BL:63:ARG:HH11	1:BL:67:MET:HE2	1.69	0.57
1:BR:6:THR:HB	1:BR:7:PRO:HD3	1.86	0.57
1:AZ:6:THR:HB	1:AZ:7:PRO:HD3	1.86	0.57
1:BX:63:ARG:HH11	1:BX:67:MET:HE2	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:63:ARG:HH11	1:CA:67:MET:HE2	1.68	0.57
1:CE:6:THR:HB	1:CE:7:PRO:HD3	1.86	0.57
1:AB:63:ARG:HH11	1:AB:67:MET:HE2	1.69	0.57
1:AW:6:THR:HB	1:AW:7:PRO:HD3	1.85	0.57
1:BA:6:THR:HB	1:BA:7:PRO:HD3	1.86	0.57
1:BA:149:LEU:O	1:BZ:53:VAL:HG23	2.04	0.57
1:AQ:6:THR:HB	1:AQ:7:PRO:HD3	1.85	0.57
1:AB:6:THR:HB	1:AB:7:PRO:HD3	1.85	0.57
1:AT:63:ARG:HH11	1:AT:67:MET:HE2	1.69	0.57
1:AZ:63:ARG:HH11	1:AZ:67:MET:HE2	1.69	0.57
1:BI:6:THR:HB	1:BI:7:PRO:HD3	1.85	0.57
1:BL:105:VAL:O	1:BN:84:ARG:NH1	2.30	0.57
1:BS:6:THR:HB	1:BS:7:PRO:HD3	1.86	0.57
1:BU:63:ARG:HH11	1:BU:67:MET:HE2	1.69	0.57
1:CD:63:ARG:HH11	1:CD:67:MET:HE2	1.69	0.57
1:AC:59:ILE:HD13	1:BG:136:VAL:HG21	1.87	0.57
1:AP:113:SER:OG	1:CD:107:LEU:HB3	2.04	0.57
1:AZ:129:ALA:HB2	1:CC:93:LYS:HB2	1.84	0.57
1:AZ:151:GLY:CA	1:CC:67:MET:HE3	2.35	0.57
1:BX:6:THR:HB	1:BX:7:PRO:HD3	1.85	0.57
1:AH:63:ARG:HH11	1:AH:67:MET:HE2	1.69	0.57
1:AX:79:ILE:HG13	1:BY:101:GLN:NE2	2.19	0.57
1:BM:6:THR:HB	1:BM:7:PRO:HD3	1.86	0.57
1:AZ:137:LEU:HG	1:CC:89:PHE:CE2	2.40	0.56
1:BD:125:ASN:OD1	1:CH:48:VAL:HA	2.04	0.56
1:AA:84:ARG:NH1	1:AH:105:VAL:O	2.34	0.56
1:AG:110:VAL:HG22	1:AK:110:VAL:HG22	1.85	0.56
1:AJ:95:VAL:HG11	1:BI:118:ALA:HB1	1.87	0.56
1:AK:53:VAL:HG23	1:BI:149:LEU:O	2.05	0.56
1:AX:6:THR:HB	1:AX:7:PRO:HD3	1.86	0.56
1:AX:125:ASN:OD1	1:BY:48:VAL:HA	2.04	0.56
1:AE:118:ALA:HB1	1:BQ:95:VAL:HG11	1.86	0.56
1:AF:59:ILE:HD13	1:BJ:136:VAL:HG21	1.87	0.56
1:AZ:17:THR:HB	1:AZ:44:THR:HB	1.88	0.56
1:BH:151:GLY:HA3	1:BX:67:MET:HE3	1.87	0.56
1:AN:63:ARG:HH11	1:AN:67:MET:HE2	1.69	0.56
1:BA:101:GLN:HE22	1:CB:78:VAL:HA	1.70	0.56
1:AF:131:SER:HB2	1:BJ:11:ALA:O	2.05	0.56
1:AZ:118:ALA:HB1	1:CC:95:VAL:HG11	1.87	0.56
1:BU:136:VAL:HG21	1:CF:59:ILE:HD13	1.88	0.56
1:AE:17:THR:HB	1:AE:44:THR:HB	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AF:6:THR:HB	1:AF:7:PRO:HD3	1.86	0.56
1:AK:63:ARG:HH11	1:AK:67:MET:HE2	1.68	0.56
1:BE:118:ALA:HB1	1:CG:95:VAL:HG11	1.88	0.56
1:BI:17:THR:HB	1:BI:44:THR:HB	1.88	0.56
1:BI:63:ARG:HH11	1:BI:67:MET:HE2	1.69	0.56
1:BO:17:THR:HB	1:BO:44:THR:HB	1.88	0.56
1:AT:17:THR:HB	1:AT:44:THR:HB	1.88	0.56
1:AW:17:THR:HB	1:AW:44:THR:HB	1.88	0.56
1:AE:59:ILE:HD13	1:BQ:136:VAL:HG21	1.88	0.56
1:AP:104:GLN:HG3	1:CD:82:ILE:HG21	1.86	0.56
1:AY:34:LYS:HD2	1:BC:153:LEU:HB3	1.88	0.56
1:BC:17:THR:HB	1:BC:44:THR:HB	1.88	0.56
1:BU:131:SER:HB2	1:CF:11:ALA:O	2.05	0.56
1:CD:17:THR:HB	1:CD:44:THR:HB	1.88	0.56
1:BH:126:VAL:HA	1:BX:106:MET:SD	2.46	0.56
1:BL:131:SER:HB2	1:BN:11:ALA:O	2.06	0.56
1:CA:17:THR:HB	1:CA:44:THR:HB	1.88	0.56
1:AZ:3:SER:O	1:CC:140:GLN:NE2	2.39	0.55
1:BA:152:ILE:HD11	1:BZ:51:HIS:CD2	2.41	0.55
1:BU:17:THR:HB	1:BU:44:THR:HB	1.88	0.55
1:AB:17:THR:HB	1:AB:44:THR:HB	1.88	0.55
1:BL:17:THR:HB	1:BL:44:THR:HB	1.88	0.55
1:BX:17:THR:HB	1:BX:44:THR:HB	1.88	0.55
1:AS:122:ASP:OD2	1:AS:125:ASN:ND2	2.39	0.55
1:AX:95:VAL:HG11	1:BY:118:ALA:HB1	1.87	0.55
1:AK:72:VAL:HG11	1:BM:78:VAL:HG11	1.89	0.55
1:AL:121:TYR:CE1	1:BM:99:VAL:HA	2.42	0.55
1:AQ:17:THR:HB	1:AQ:44:THR:HB	1.88	0.55
1:AS:121:TYR:CE1	1:CA:99:VAL:HA	2.41	0.55
1:AH:17:THR:HB	1:AH:44:THR:HB	1.88	0.55
1:AY:110:VAL:HG22	1:BC:110:VAL:HG22	1.88	0.55
1:AD:118:ALA:HB1	1:AN:95:VAL:HG11	1.89	0.55
1:AG:59:ILE:HD13	1:AK:136:VAL:HG21	1.89	0.55
1:AW:99:VAL:HA	1:BB:121:TYR:CZ	2.41	0.55
1:BR:17:THR:HB	1:BR:44:THR:HB	1.88	0.55
1:BU:105:VAL:O	1:CF:84:ARG:NH1	2.32	0.55
1:AK:17:THR:HB	1:AK:44:THR:HB	1.88	0.55
1:AB:99:VAL:HA	1:BW:121:TYR:CE1	2.41	0.55
1:AD:136:VAL:HG21	1:AN:59:ILE:HD13	1.87	0.55
1:BH:152:ILE:HD11	1:BY:51:HIS:CD2	2.41	0.55
1:AL:131:SER:HB2	1:BM:11:ALA:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:17:THR:HB	1:AN:44:THR:HB	1.88	0.54
1:CG:17:THR:HB	1:CG:44:THR:HB	1.88	0.54
1:AS:136:VAL:HG21	1:CA:59:ILE:HD13	1.88	0.54
1:BD:131:SER:HB3	1:CH:13:GLN:CG	2.38	0.54
1:AB:113:SER:OG	1:BW:107:LEU:HB3	2.07	0.54
1:BD:152:ILE:O	1:CH:1:ALA:N	2.40	0.54
1:AQ:84:ARG:NH1	1:AV:105:VAL:O	2.40	0.54
1:BF:17:THR:HB	1:BF:44:THR:HB	1.88	0.54
1:BH:122:ASP:OD2	1:BH:125:ASN:ND2	2.39	0.54
1:AG:84:ARG:HH12	1:AK:105:VAL:C	2.09	0.54
1:AM:122:ASP:OD2	1:AM:125:ASN:ND2	2.39	0.54
1:BA:151:GLY:HA3	1:CB:67:MET:HE3	1.88	0.54
1:AD:122:ASP:OD2	1:AD:125:ASN:ND2	2.39	0.54
1:AF:105:VAL:O	1:BJ:84:ARG:NH1	2.41	0.54
1:AQ:72:VAL:HG11	1:BS:78:VAL:HG11	1.90	0.54
1:AQ:105:VAL:O	1:AV:84:ARG:NH1	2.32	0.54
1:BA:139:GLN:OE1	1:CB:4:PRO:HA	2.08	0.54
1:BX:14:THR:OG1	1:BX:146:ASP:OD1	2.23	0.54
1:AG:122:ASP:OD2	1:AG:125:ASN:ND2	2.39	0.54
1:AP:48:VAL:HA	1:CD:125:ASN:OD1	2.06	0.54
1:AJ:110:VAL:HG22	1:BI:110:VAL:HG22	1.90	0.54
1:AU:149:LEU:HD13	1:BV:123:ALA:HB1	1.90	0.53
1:BE:34:LYS:HD2	1:CG:153:LEU:HB3	1.90	0.53
1:AC:110:VAL:HG22	1:BG:110:VAL:HG22	1.91	0.53
1:AL:107:LEU:HB3	1:BM:113:SER:OG	2.09	0.53
1:AR:95:VAL:HG11	1:BS:118:ALA:HB1	1.91	0.53
1:AY:48:VAL:HA	1:BC:125:ASN:OD1	2.08	0.53
1:BT:122:ASP:OD2	1:BT:125:ASN:ND2	2.39	0.53
1:AS:95:VAL:HG11	1:CA:118:ALA:HB1	1.90	0.53
1:AQ:1:ALA:N	1:AV:147:THR:OG1	2.39	0.53
1:BN:122:ASP:OD2	1:BN:125:ASN:ND2	2.39	0.53
1:AP:122:ASP:OD2	1:AP:125:ASN:ND2	2.39	0.53
1:AQ:63:ARG:NH1	1:AQ:67:MET:HE2	2.24	0.53
1:BR:122:ASP:OD2	1:BR:125:ASN:ND2	2.40	0.53
1:AD:110:VAL:HG22	1:AN:110:VAL:HG22	1.91	0.53
1:AJ:122:ASP:OD2	1:AJ:125:ASN:ND2	2.39	0.53
1:AW:63:ARG:NH1	1:AW:67:MET:HE2	2.24	0.53
1:AX:113:SER:OG	1:BY:107:LEU:HB3	2.09	0.53
1:BB:122:ASP:OD2	1:BB:125:ASN:ND2	2.39	0.53
1:AB:106:MET:SD	1:BW:126:VAL:HA	2.49	0.53
1:AX:48:VAL:HA	1:BY:125:ASN:OD1	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BD:48:VAL:HA	1:CH:125:ASN:OD1	2.08	0.52
1:BI:122:ASP:OD2	1:BI:125:ASN:ND2	2.40	0.52
1:BO:63:ARG:NH1	1:BO:67:MET:HE2	2.24	0.52
1:AT:63:ARG:NH1	1:AT:67:MET:HE2	2.24	0.52
1:BX:63:ARG:NH1	1:BX:67:MET:HE2	2.24	0.52
1:CF:122:ASP:OD2	1:CF:125:ASN:ND2	2.39	0.52
1:AJ:136:VAL:HG21	1:BI:59:ILE:HD13	1.91	0.52
1:AT:14:THR:OG1	1:AT:146:ASP:OD1	2.23	0.52
1:AW:59:ILE:HD13	1:BB:136:VAL:HG21	1.90	0.52
1:AZ:150:SER:O	1:CD:51:HIS:NE2	2.37	0.52
1:BC:14:THR:OG1	1:BC:146:ASP:OD1	2.23	0.52
1:BE:95:VAL:HG11	1:CG:118:ALA:HB1	1.91	0.52
1:BH:48:VAL:HA	1:BX:125:ASN:OD1	2.09	0.52
1:CA:63:ARG:NH1	1:CA:67:MET:HE2	2.24	0.52
1:AA:95:VAL:HG11	1:AH:118:ALA:HB1	1.92	0.52
1:BC:122:ASP:OD2	1:BC:125:ASN:ND2	2.40	0.52
1:BU:63:ARG:NH1	1:BU:67:MET:HE2	2.24	0.52
1:AZ:63:ARG:NH1	1:AZ:67:MET:HE2	2.24	0.52
1:BC:63:ARG:NH1	1:BC:67:MET:HE2	2.24	0.52
1:BI:63:ARG:NH1	1:BI:67:MET:HE2	2.24	0.52
1:AB:63:ARG:NH1	1:AB:67:MET:HE2	2.24	0.52
1:AF:11:ALA:O	1:BJ:131:SER:HB2	2.09	0.52
1:AS:121:TYR:CZ	1:CA:99:VAL:HA	2.45	0.52
1:BL:122:ASP:OD2	1:BL:125:ASN:ND2	2.40	0.52
1:AE:63:ARG:NH1	1:AE:67:MET:HE2	2.24	0.52
1:AK:63:ARG:NH1	1:AK:67:MET:HE2	2.24	0.52
1:AZ:133:ALA:CA	1:CC:91:VAL:HG21	2.40	0.52
1:BD:92:ARG:HG2	1:BD:107:LEU:HD13	1.92	0.52
1:BP:92:ARG:HG2	1:BP:107:LEU:HD13	1.92	0.52
1:CG:122:ASP:OD2	1:CG:125:ASN:ND2	2.40	0.52
1:AB:84:ARG:NH1	1:BW:105:VAL:O	2.43	0.52
1:AE:113:SER:OG	1:BQ:107:LEU:HB3	2.09	0.52
1:AH:63:ARG:NH1	1:AH:67:MET:HE2	2.24	0.52
1:BL:136:VAL:HG21	1:BN:59:ILE:HD13	1.92	0.52
1:BR:14:THR:OG1	1:BR:146:ASP:OD1	2.23	0.52
1:BV:92:ARG:HG2	1:BV:107:LEU:HD13	1.92	0.52
1:BY:92:ARG:HG2	1:BY:107:LEU:HD13	1.92	0.52
1:CG:63:ARG:NH1	1:CG:67:MET:HE2	2.24	0.52
1:AV:122:ASP:OD2	1:AV:125:ASN:ND2	2.39	0.52
1:AZ:107:LEU:HB3	1:CC:113:SER:OG	2.10	0.52
1:BR:63:ARG:NH1	1:BR:67:MET:HE2	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BS:92:ARG:HG2	1:BS:107:LEU:HD13	1.92	0.52
1:AB:153:LEU:HB3	1:BW:34:LYS:HD2	1.91	0.52
1:AR:92:ARG:HG2	1:AR:107:LEU:HD13	1.92	0.52
1:AD:63:ARG:NH1	1:AD:67:MET:HE2	2.25	0.51
1:AE:14:THR:OG1	1:AE:146:ASP:OD1	2.23	0.51
1:AE:122:ASP:OD2	1:AE:125:ASN:ND2	2.40	0.51
1:AI:92:ARG:HG2	1:AI:107:LEU:HD13	1.92	0.51
1:AP:107:LEU:HB3	1:CD:113:SER:OG	2.10	0.51
1:AW:121:TYR:CZ	1:BB:99:VAL:HA	2.44	0.51
1:BK:63:ARG:NH1	1:BK:67:MET:HE2	2.25	0.51
1:BM:92:ARG:HG2	1:BM:107:LEU:HD13	1.92	0.51
1:AN:63:ARG:NH1	1:AN:67:MET:HE2	2.24	0.51
1:BQ:122:ASP:OD2	1:BQ:125:ASN:ND2	2.39	0.51
1:CD:63:ARG:NH1	1:CD:67:MET:HE2	2.24	0.51
1:CE:92:ARG:HG2	1:CE:107:LEU:HD13	1.92	0.51
1:AE:126:VAL:HG13	1:BQ:106:MET:SD	2.50	0.51
1:AL:92:ARG:HG2	1:AL:107:LEU:HD13	1.92	0.51
1:AO:1:ALA:N	1:BP:147:THR:OG1	2.37	0.51
1:AX:92:ARG:HG2	1:AX:107:LEU:HD13	1.92	0.51
1:BL:63:ARG:NH1	1:BL:67:MET:HE2	2.24	0.51
1:AA:122:ASP:OD2	1:AA:125:ASN:ND2	2.39	0.51
1:AL:95:VAL:HG11	1:BM:118:ALA:HB1	1.90	0.51
1:BE:63:ARG:NH1	1:BE:67:MET:HE2	2.25	0.51
1:BG:92:ARG:HG2	1:BG:107:LEU:HD13	1.92	0.51
1:BJ:92:ARG:HG2	1:BJ:107:LEU:HD13	1.92	0.51
1:BQ:63:ARG:NH1	1:BQ:67:MET:HE2	2.25	0.51
1:AD:34:LYS:HD2	1:AN:153:LEU:HB3	1.93	0.51
1:AE:107:LEU:HB3	1:BQ:113:SER:OG	2.11	0.51
1:AU:92:ARG:HG2	1:AU:107:LEU:HD13	1.92	0.51
1:BF:63:ARG:NH1	1:BF:67:MET:HE2	2.24	0.51
1:AE:136:VAL:HG21	1:BQ:59:ILE:HD13	1.90	0.51
1:AO:92:ARG:HG2	1:AO:107:LEU:HD13	1.92	0.51
1:AP:101:GLN:HG3	1:CD:79:ILE:HD12	1.92	0.51
1:AS:11:ALA:O	1:CA:131:SER:HB2	2.11	0.51
1:AF:136:VAL:HG21	1:BJ:59:ILE:HD13	1.91	0.51
1:AP:63:ARG:NH1	1:AP:67:MET:HE2	2.25	0.51
1:AP:101:GLN:NE2	1:CD:79:ILE:HG13	2.26	0.51
1:BD:13:GLN:CG	1:CH:131:SER:HB3	2.41	0.51
1:BE:110:VAL:HG22	1:CG:110:VAL:HG22	1.92	0.51
1:CH:92:ARG:HG2	1:CH:107:LEU:HD13	1.92	0.51
1:AC:92:ARG:HG2	1:AC:107:LEU:HD13	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:98:ALA:HB2	1:CB:79:ILE:HD12	1.93	0.51
1:BC:74:ASN:O	1:CH:76:ASN:ND2	2.43	0.51
1:AG:63:ARG:NH1	1:AG:67:MET:HE2	2.25	0.51
1:AL:113:SER:OG	1:BM:107:LEU:HB3	2.10	0.51
1:AA:105:VAL:O	1:AH:84:ARG:NH1	2.44	0.50
1:AK:122:ASP:OD2	1:AK:125:ASN:ND2	2.40	0.50
1:AS:107:LEU:HB3	1:CA:113:SER:OG	2.11	0.50
1:AW:126:VAL:HA	1:BB:106:MET:SD	2.52	0.50
1:CC:122:ASP:OD2	1:CC:125:ASN:ND2	2.39	0.50
1:BD:123:ALA:HB1	1:CH:149:LEU:HD13	1.92	0.50
1:BE:113:SER:OG	1:CG:107:LEU:HB3	2.11	0.50
1:CA:122:ASP:OD2	1:CA:125:ASN:ND2	2.40	0.50
1:AB:122:ASP:OD2	1:AB:125:ASN:ND2	2.40	0.50
1:CB:92:ARG:HG2	1:CB:107:LEU:HD13	1.92	0.50
1:CF:63:ARG:NH1	1:CF:67:MET:HE2	2.25	0.50
1:AC:125:ASN:OD1	1:BG:48:VAL:HA	2.12	0.50
1:AF:63:ARG:NH1	1:AF:67:MET:HE2	2.27	0.50
1:AF:92:ARG:HG2	1:AF:107:LEU:HD13	1.92	0.50
1:AT:122:ASP:OD2	1:AT:125:ASN:ND2	2.40	0.50
1:AZ:151:GLY:HA3	1:CC:67:MET:HE3	1.93	0.50
1:BE:122:ASP:OD2	1:BE:125:ASN:ND2	2.39	0.50
1:BN:63:ARG:NH1	1:BN:67:MET:HE2	2.25	0.50
1:CB:122:ASP:OD2	1:CB:125:ASN:ND2	2.41	0.50
1:AA:63:ARG:NH1	1:AA:67:MET:HE2	2.25	0.50
1:AJ:63:ARG:NH1	1:AJ:67:MET:HE2	2.25	0.50
1:AM:63:ARG:NH1	1:AM:67:MET:HE2	2.25	0.50
1:AY:113:SER:OG	1:BC:107:LEU:HB3	2.11	0.50
1:AZ:147:THR:OG1	1:CC:1:ALA:N	2.44	0.50
1:CD:122:ASP:OD2	1:CD:125:ASN:ND2	2.40	0.50
1:AL:118:ALA:HB1	1:BM:95:VAL:HG11	1.92	0.50
1:BA:151:GLY:HA2	1:CB:67:MET:CE	2.40	0.50
1:AH:53:VAL:HG23	1:AK:149:LEU:O	2.11	0.50
1:AR:51:HIS:CD2	1:AV:152:ILE:HD11	2.47	0.50
1:AR:107:LEU:HB3	1:BS:113:SER:OG	2.12	0.50
1:AR:123:ALA:HB1	1:BS:149:LEU:HD13	1.92	0.50
1:AZ:133:ALA:HA	1:CC:91:VAL:HG21	1.92	0.50
1:BA:92:ARG:HG2	1:BA:107:LEU:HD13	1.92	0.50
1:BD:1:ALA:N	1:CH:152:ILE:O	2.45	0.50
1:BK:122:ASP:OD2	1:BK:125:ASN:ND2	2.39	0.50
1:BO:122:ASP:OD2	1:BO:125:ASN:ND2	2.40	0.50
1:BV:63:ARG:NH1	1:BV:67:MET:HE2	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BW:122:ASP:OD2	1:BW:125:ASN:ND2	2.39	0.50
1:AG:153:LEU:HD22	1:AK:61:PHE:CD2	2.46	0.50
1:BA:106:MET:HG3	1:CB:113:SER:O	2.12	0.50
1:BD:63:ARG:NH1	1:BD:67:MET:HE2	2.27	0.50
1:BH:143:GLY:HA3	1:BX:1:ALA:O	2.11	0.50
1:CC:63:ARG:NH1	1:CC:67:MET:HE2	2.26	0.50
1:AV:63:ARG:NH1	1:AV:67:MET:HE2	2.25	0.50
1:BD:127:LYS:HG3	1:CH:149:LEU:HD11	1.93	0.50
1:BH:153:LEU:HD21	1:BX:63:ARG:HB3	1.93	0.50
1:BG:63:ARG:NH1	1:BG:67:MET:HE2	2.27	0.49
1:BP:63:ARG:NH1	1:BP:67:MET:HE2	2.27	0.49
1:BP:122:ASP:OD2	1:BP:125:ASN:ND2	2.41	0.49
1:AL:76:ASN:ND2	1:BL:74:ASN:O	2.45	0.49
1:AN:122:ASP:OD2	1:AN:125:ASN:ND2	2.40	0.49
1:AU:123:ALA:HB1	1:BV:149:LEU:HD13	1.94	0.49
1:BA:143:GLY:HA3	1:CB:1:ALA:O	2.12	0.49
1:BF:122:ASP:OD2	1:BF:125:ASN:ND2	2.40	0.49
1:AR:63:ARG:NH1	1:AR:67:MET:HE2	2.27	0.49
1:BH:63:ARG:NH1	1:BH:67:MET:HE2	2.25	0.49
1:CG:14:THR:OG1	1:CG:146:ASP:OD1	2.23	0.49
1:AB:126:VAL:HA	1:BW:106:MET:SD	2.52	0.49
1:AJ:110:VAL:HG21	1:BI:137:LEU:HD11	1.94	0.49
1:AU:63:ARG:NH1	1:AU:67:MET:HE2	2.27	0.49
1:AL:63:ARG:NH1	1:AL:67:MET:HE2	2.27	0.49
1:AL:126:VAL:HG13	1:BM:106:MET:SD	2.52	0.49
1:AO:63:ARG:NH1	1:AO:67:MET:HE2	2.27	0.49
1:AS:63:ARG:NH1	1:AS:67:MET:HE2	2.26	0.49
1:AY:122:ASP:OD2	1:AY:125:ASN:ND2	2.39	0.49
1:BD:95:VAL:HG11	1:CH:118:ALA:HB1	1.95	0.49
1:BU:122:ASP:OD2	1:BU:125:ASN:ND2	2.40	0.49
1:BZ:63:ARG:NH1	1:BZ:67:MET:HE2	2.25	0.49
1:AA:11:ALA:O	1:AH:131:SER:HB2	2.12	0.49
1:BB:63:ARG:NH1	1:BB:67:MET:HE2	2.25	0.49
1:BL:14:THR:OG1	1:BL:146:ASP:OD1	2.23	0.49
1:AD:137:LEU:HD11	1:AN:110:VAL:HG21	1.95	0.49
1:AG:34:LYS:HG3	1:AK:153:LEU:HD13	1.93	0.49
1:AQ:136:VAL:HG21	1:AV:59:ILE:HD13	1.95	0.49
1:AS:59:ILE:HD13	1:CA:136:VAL:HG21	1.95	0.49
1:BL:84:ARG:NH1	1:BN:105:VAL:O	2.46	0.49
1:CD:58:THR:O	1:CD:91:VAL:HA	2.13	0.49
1:CH:63:ARG:NH1	1:CH:67:MET:HE2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AW:105:VAL:O	1:BB:84:ARG:NH1	2.38	0.49
1:BA:148:ALA:HA	1:CB:87:TYR:CE2	2.47	0.49
1:BX:58:THR:O	1:BX:91:VAL:HA	2.13	0.49
1:AO:59:ILE:HD13	1:BP:136:VAL:HG21	1.93	0.49
1:BJ:63:ARG:NH1	1:BJ:67:MET:HE2	2.27	0.49
1:AB:106:MET:SD	1:BW:126:VAL:HG13	2.52	0.49
1:AH:122:ASP:OD2	1:AH:125:ASN:ND2	2.40	0.49
1:AK:58:THR:O	1:AK:91:VAL:HA	2.13	0.49
1:AY:63:ARG:NH1	1:AY:67:MET:HE2	2.25	0.49
1:AZ:58:THR:O	1:AZ:91:VAL:HA	2.13	0.49
1:BL:58:THR:O	1:BL:91:VAL:HA	2.13	0.49
1:CH:122:ASP:OD2	1:CH:125:ASN:ND2	2.41	0.49
1:AI:72:VAL:HB	1:AK:78:VAL:HG22	1.95	0.48
1:AS:110:VAL:HG22	1:CA:110:VAL:HG22	1.94	0.48
1:BA:37:ALA:HB3	1:CC:152:ILE:HD13	1.95	0.48
1:BC:58:THR:O	1:BC:91:VAL:HA	2.13	0.48
1:BF:58:THR:O	1:BF:91:VAL:HA	2.13	0.48
1:CA:58:THR:O	1:CA:91:VAL:HA	2.13	0.48
1:AB:41:THR:HG23	1:AB:50:THR:HG22	1.96	0.48
1:AI:63:ARG:NH1	1:AI:67:MET:HE2	2.27	0.48
1:AR:122:ASP:OD2	1:AR:125:ASN:ND2	2.41	0.48
1:BR:58:THR:O	1:BR:91:VAL:HA	2.13	0.48
1:BU:58:THR:O	1:BU:91:VAL:HA	2.13	0.48
1:BW:63:ARG:NH1	1:BW:67:MET:HE2	2.25	0.48
1:AE:58:THR:O	1:AE:91:VAL:HA	2.13	0.48
1:AS:105:VAL:O	1:CA:84:ARG:NH1	2.46	0.48
1:CB:63:ARG:NH1	1:CB:67:MET:HE2	2.27	0.48
1:AF:118:ALA:HB1	1:BJ:95:VAL:HG11	1.96	0.48
1:AN:58:THR:O	1:AN:91:VAL:HA	2.13	0.48
1:AR:76:ASN:HD21	1:BR:75:SER:HA	1.79	0.48
1:AV:14:THR:OG1	1:AV:146:ASP:OD1	2.26	0.48
1:AY:137:LEU:HD11	1:BC:110:VAL:HG21	1.94	0.48
1:AZ:149:LEU:C	1:CD:53:VAL:HG23	2.39	0.48
1:BI:58:THR:O	1:BI:91:VAL:HA	2.13	0.48
1:BU:41:THR:HG23	1:BU:50:THR:HG22	1.96	0.48
1:CA:41:THR:HG23	1:CA:50:THR:HG22	1.96	0.48
1:AE:41:THR:HG23	1:AE:50:THR:HG22	1.96	0.48
1:AG:48:VAL:HA	1:AK:125:ASN:OD1	2.13	0.48
1:BD:131:SER:HB3	1:CH:13:GLN:HG3	1.95	0.48
1:CF:14:THR:OG1	1:CF:146:ASP:OD1	2.26	0.48
1:AG:95:VAL:HG11	1:AK:118:ALA:HB1	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:14:THR:OG1	1:AP:146:ASP:OD1	2.26	0.48
1:AS:113:SER:OG	1:CA:107:LEU:HB3	2.13	0.48
1:AT:58:THR:O	1:AT:91:VAL:HA	2.13	0.48
1:AX:63:ARG:NH1	1:AX:67:MET:HE2	2.27	0.48
1:BL:41:THR:HG23	1:BL:50:THR:HG22	1.96	0.48
1:AB:58:THR:O	1:AB:91:VAL:HA	2.13	0.48
1:AL:121:TYR:CZ	1:BM:99:VAL:HA	2.49	0.48
1:AQ:58:THR:O	1:AQ:91:VAL:HA	2.13	0.48
1:AW:41:THR:HG23	1:AW:50:THR:HG22	1.96	0.48
1:AW:110:VAL:HG21	1:BB:137:LEU:HD11	1.95	0.48
1:AZ:95:VAL:HG11	1:CC:118:ALA:CB	2.42	0.48
1:AZ:152:ILE:HG23	1:CD:26:ASP:OD1	2.14	0.48
1:BI:41:THR:HG23	1:BI:50:THR:HG22	1.96	0.48
1:BS:122:ASP:OD2	1:BS:125:ASN:ND2	2.41	0.48
1:BZ:122:ASP:OD2	1:BZ:125:ASN:ND2	2.39	0.48
1:CD:41:THR:HG23	1:CD:50:THR:HG22	1.96	0.48
1:AA:110:VAL:HG22	1:AH:110:VAL:HG22	1.96	0.48
1:AE:110:VAL:HG22	1:BQ:110:VAL:HG22	1.95	0.48
1:AJ:113:SER:OG	1:BI:107:LEU:HB3	2.13	0.48
1:AX:59:ILE:HD13	1:BY:136:VAL:HG21	1.95	0.48
1:AY:107:LEU:HB3	1:BC:113:SER:OG	2.13	0.48
1:BE:136:VAL:HG21	1:CG:59:ILE:HD13	1.95	0.48
1:BV:51:HIS:CD2	1:CF:152:ILE:HD11	2.49	0.48
1:AZ:139:GLN:OE1	1:CC:4:PRO:CA	2.55	0.48
1:BA:5:SER:HB2	1:CB:139:GLN:HE22	1.79	0.48
1:BY:63:ARG:NH1	1:BY:67:MET:HE2	2.27	0.48
1:CD:14:THR:OG1	1:CD:146:ASP:OD1	2.23	0.48
1:CE:122:ASP:OD2	1:CE:125:ASN:ND2	2.41	0.48
1:AN:14:THR:OG1	1:AN:146:ASP:OD1	2.23	0.48
1:AS:34:LYS:HD2	1:CA:153:LEU:HB3	1.95	0.48
1:AW:58:THR:O	1:AW:91:VAL:HA	2.13	0.48
1:AZ:91:VAL:HG21	1:CC:133:ALA:HB2	1.96	0.48
1:AZ:152:ILE:HG23	1:CD:26:ASP:HA	1.95	0.48
1:AZ:152:ILE:HG12	1:CD:26:ASP:CG	2.38	0.48
1:AE:95:VAL:HG11	1:BQ:118:ALA:HB1	1.95	0.47
1:AH:58:THR:O	1:AH:91:VAL:HA	2.13	0.47
1:AV:27:THR:OG1	1:BY:153:LEU:HB3	2.14	0.47
1:AZ:122:ASP:OD2	1:AZ:125:ASN:ND2	2.40	0.47
1:BC:41:THR:HG23	1:BC:50:THR:HG22	1.96	0.47
1:BD:149:LEU:HD11	1:CH:127:LYS:HG3	1.95	0.47
1:BL:118:ALA:HB1	1:BN:95:VAL:HG11	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:41:THR:HG23	1:AH:50:THR:HG22	1.96	0.47
1:AI:122:ASP:OD2	1:AI:125:ASN:ND2	2.41	0.47
1:AU:14:THR:OG1	1:AU:146:ASP:OD1	2.24	0.47
1:AY:14:THR:OG1	1:AY:146:ASP:OD1	2.26	0.47
1:AZ:41:THR:HG23	1:AZ:50:THR:HG22	1.96	0.47
1:AC:122:ASP:OD2	1:AC:125:ASN:ND2	2.41	0.47
1:AK:41:THR:HG23	1:AK:50:THR:HG22	1.96	0.47
1:AZ:10:GLY:HA3	1:CC:131:SER:OG	2.14	0.47
1:BA:63:ARG:NH1	1:BA:67:MET:HE2	2.27	0.47
1:BD:101:GLN:NE2	1:CH:79:ILE:HG13	2.29	0.47
1:AC:14:THR:OG1	1:AC:146:ASP:OD1	2.25	0.47
1:AT:41:THR:HG23	1:AT:50:THR:HG22	1.96	0.47
1:BS:63:ARG:NH1	1:BS:67:MET:HE2	2.27	0.47
1:CG:58:THR:O	1:CG:91:VAL:HA	2.13	0.47
1:AI:14:THR:OG1	1:AI:146:ASP:OD1	2.25	0.47
1:AO:26:ASP:OD1	1:AO:27:THR:N	2.48	0.47
1:AX:14:THR:OG1	1:AX:146:ASP:OD1	2.25	0.47
1:AX:76:ASN:ND2	1:BX:74:ASN:O	2.48	0.47
1:AZ:4:PRO:HA	1:CC:139:GLN:OE1	2.15	0.47
1:BA:84:ARG:NH1	1:CB:105:VAL:O	2.48	0.47
1:BF:41:THR:HG23	1:BF:50:THR:HG22	1.96	0.47
1:CE:63:ARG:NH1	1:CE:67:MET:HE2	2.27	0.47
1:AN:41:THR:HG23	1:AN:50:THR:HG22	1.96	0.47
1:BA:153:LEU:HB2	1:CB:63:ARG:HD3	1.95	0.47
1:BC:72:VAL:CG1	1:CH:78:VAL:HG11	2.44	0.47
1:BG:122:ASP:OD2	1:BG:125:ASN:ND2	2.41	0.47
1:BO:41:THR:HG23	1:BO:50:THR:HG22	1.96	0.47
1:BO:58:THR:O	1:BO:91:VAL:HA	2.13	0.47
1:AC:136:VAL:HG21	1:BG:59:ILE:HD13	1.97	0.47
1:AL:122:ASP:OD2	1:AL:125:ASN:ND2	2.41	0.47
1:AQ:41:THR:HG23	1:AQ:50:THR:HG22	1.96	0.47
1:AW:106:MET:SD	1:BB:126:VAL:HG13	2.55	0.47
1:AZ:149:LEU:HD22	1:CC:119:ASP:O	2.15	0.47
1:BA:26:ASP:OD1	1:BA:27:THR:N	2.48	0.47
1:BG:26:ASP:OD1	1:BG:27:THR:N	2.48	0.47
1:BM:63:ARG:NH1	1:BM:67:MET:HE2	2.27	0.47
1:BO:14:THR:OG1	1:BO:146:ASP:OD1	2.23	0.47
1:BU:121:TYR:CZ	1:CF:99:VAL:HA	2.50	0.47
1:BX:41:THR:HG23	1:BX:50:THR:HG22	1.96	0.47
1:BX:122:ASP:OD2	1:BX:125:ASN:ND2	2.40	0.47
1:BY:122:ASP:OD2	1:BY:125:ASN:ND2	2.41	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:14:THR:OG1	1:CA:146:ASP:OD1	2.23	0.47
1:AF:58:THR:O	1:AF:91:VAL:HA	2.15	0.47
1:AL:26:ASP:OD1	1:AL:27:THR:N	2.48	0.47
1:AU:58:THR:O	1:AU:91:VAL:HA	2.15	0.47
1:AX:82:ILE:HG21	1:BY:104:GLN:HG3	1.96	0.47
1:BG:58:THR:O	1:BG:91:VAL:HA	2.15	0.47
1:BH:148:ALA:HB1	1:BX:114:VAL:HG21	1.96	0.47
1:BP:26:ASP:OD1	1:BP:27:THR:N	2.48	0.47
1:BT:63:ARG:NH1	1:BT:67:MET:HE2	2.25	0.47
1:CE:26:ASP:OD1	1:CE:27:THR:N	2.48	0.47
1:CG:41:THR:HG23	1:CG:50:THR:HG22	1.96	0.47
1:AC:63:ARG:NH1	1:AC:67:MET:HE2	2.27	0.47
1:AE:106:MET:SD	1:BQ:126:VAL:HA	2.55	0.47
1:AU:78:VAL:HG11	1:BU:72:VAL:HG11	1.97	0.47
1:AW:113:SER:OG	1:BB:107:LEU:HB3	2.15	0.47
1:BA:58:THR:O	1:BA:91:VAL:HA	2.15	0.47
1:BD:26:ASP:OD1	1:BD:27:THR:N	2.48	0.47
1:BE:59:ILE:HD13	1:CG:136:VAL:HG21	1.97	0.47
1:BE:99:VAL:HA	1:CG:121:TYR:CZ	2.50	0.47
1:BH:126:VAL:HG13	1:BX:106:MET:SD	2.55	0.47
1:AG:117:GLY:HA3	1:AK:97:PRO:O	2.16	0.47
1:AZ:130:LEU:HD23	1:CC:108:VAL:HG21	1.97	0.47
1:BD:58:THR:O	1:BD:91:VAL:HA	2.15	0.47
1:AB:121:TYR:CZ	1:BW:99:VAL:HA	2.51	0.46
1:AC:58:THR:O	1:AC:91:VAL:HA	2.15	0.46
1:AG:14:THR:OG1	1:AG:146:ASP:OD1	2.26	0.46
1:AJ:99:VAL:HA	1:BI:121:TYR:CE1	2.50	0.46
1:AS:106:MET:SD	1:CA:126:VAL:HA	2.55	0.46
1:AX:107:LEU:HB3	1:BY:113:SER:OG	2.15	0.46
1:BE:107:LEU:HB3	1:CG:113:SER:OG	2.16	0.46
1:CB:26:ASP:OD1	1:CB:27:THR:N	2.48	0.46
1:CB:58:THR:O	1:CB:91:VAL:HA	2.15	0.46
1:AL:58:THR:O	1:AL:91:VAL:HA	2.15	0.46
1:AR:58:THR:O	1:AR:91:VAL:HA	2.15	0.46
1:AW:14:THR:OG1	1:AW:146:ASP:OD1	2.23	0.46
1:AW:122:ASP:OD2	1:AW:125:ASN:ND2	2.40	0.46
1:AX:58:THR:O	1:AX:91:VAL:HA	2.15	0.46
1:BH:121:TYR:CE1	1:BX:99:VAL:HA	2.51	0.46
1:BJ:58:THR:O	1:BJ:91:VAL:HA	2.15	0.46
1:AI:26:ASP:OD1	1:AI:27:THR:N	2.48	0.46
1:AU:26:ASP:OD1	1:AU:27:THR:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AX:51:HIS:CD2	1:BB:152:ILE:HD11	2.50	0.46
1:BD:13:GLN:HG3	1:CH:131:SER:HB3	1.97	0.46
1:BR:41:THR:HG23	1:BR:50:THR:HG22	1.96	0.46
1:BV:26:ASP:OD1	1:BV:27:THR:N	2.48	0.46
1:BV:122:ASP:OD2	1:BV:125:ASN:ND2	2.41	0.46
1:BY:58:THR:O	1:BY:91:VAL:HA	2.15	0.46
1:AO:58:THR:O	1:AO:91:VAL:HA	2.15	0.46
1:AU:122:ASP:OD2	1:AU:125:ASN:ND2	2.41	0.46
1:AX:78:VAL:HG11	1:BX:72:VAL:CG1	2.45	0.46
1:BD:149:LEU:HD13	1:CH:123:ALA:HB1	1.97	0.46
1:BP:14:THR:OG1	1:BP:146:ASP:OD1	2.25	0.46
1:CE:58:THR:O	1:CE:91:VAL:HA	2.15	0.46
1:CH:58:THR:O	1:CH:91:VAL:HA	2.15	0.46
1:AW:107:LEU:HB3	1:BB:113:SER:OG	2.15	0.46
1:BJ:14:THR:OG1	1:BJ:146:ASP:OD1	2.25	0.46
1:BJ:26:ASP:OD1	1:BJ:27:THR:N	2.48	0.46
1:AF:26:ASP:OD1	1:AF:27:THR:N	2.48	0.46
1:AX:26:ASP:OD1	1:AX:27:THR:N	2.48	0.46
1:AL:110:VAL:HG22	1:BM:110:VAL:HG22	1.98	0.46
1:AQ:122:ASP:OD2	1:AQ:125:ASN:ND2	2.40	0.46
1:BM:58:THR:O	1:BM:91:VAL:HA	2.15	0.46
1:BS:26:ASP:OD1	1:BS:27:THR:N	2.48	0.46
1:BS:58:THR:O	1:BS:91:VAL:HA	2.15	0.46
1:AK:75:SER:HA	1:BM:76:ASN:HD21	1.80	0.46
1:AL:136:VAL:HG21	1:BM:59:ILE:HD13	1.98	0.46
1:AO:125:ASN:OD1	1:BP:48:VAL:HA	2.16	0.46
1:BV:58:THR:O	1:BV:91:VAL:HA	2.15	0.46
1:BY:26:ASP:OD1	1:BY:27:THR:N	2.48	0.46
1:CH:26:ASP:OD1	1:CH:27:THR:N	2.48	0.46
1:AO:123:ALA:HB1	1:BP:149:LEU:HD13	1.98	0.45
1:AZ:136:VAL:CG2	1:CC:59:ILE:HD13	2.39	0.45
1:BJ:122:ASP:OD2	1:BJ:125:ASN:ND2	2.41	0.45
1:AB:152:ILE:O	1:BW:1:ALA:N	2.49	0.45
1:AL:126:VAL:HA	1:BM:106:MET:SD	2.57	0.45
1:AP:127:LYS:O	1:CD:13:GLN:HG3	2.16	0.45
1:AR:72:VAL:CB	1:CD:78:VAL:HG22	2.42	0.45
1:AW:152:ILE:O	1:BB:1:ALA:N	2.50	0.45
1:AZ:110:VAL:HG22	1:CC:110:VAL:HG13	1.98	0.45
1:BA:153:LEU:CD2	1:CB:32:LEU:O	2.64	0.45
1:BP:58:THR:O	1:BP:91:VAL:HA	2.15	0.45
1:CD:130:LEU:HD23	1:CD:130:LEU:HA	1.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:58:THR:O	1:AG:91:VAL:HA	2.17	0.45
1:AJ:99:VAL:HA	1:BI:121:TYR:CZ	2.51	0.45
1:AJ:106:MET:SD	1:BI:126:VAL:HA	2.56	0.45
1:AU:118:ALA:HB1	1:BV:95:VAL:HG11	1.97	0.45
1:BF:14:THR:OG1	1:BF:146:ASP:OD1	2.23	0.45
1:BM:130:LEU:HD23	1:BM:130:LEU:HA	1.81	0.45
1:BT:58:THR:O	1:BT:91:VAL:HA	2.17	0.45
1:AI:58:THR:O	1:AI:91:VAL:HA	2.15	0.45
1:AO:122:ASP:OD2	1:AO:125:ASN:ND2	2.41	0.45
1:AP:58:THR:O	1:AP:91:VAL:HA	2.17	0.45
1:AR:149:LEU:HD13	1:BS:123:ALA:HB1	1.99	0.45
1:AX:130:LEU:HD23	1:AX:130:LEU:HA	1.81	0.45
1:BE:58:THR:O	1:BE:91:VAL:HA	2.17	0.45
1:BK:58:THR:O	1:BK:91:VAL:HA	2.17	0.45
1:AA:58:THR:O	1:AA:91:VAL:HA	2.17	0.45
1:AD:104:GLN:HG3	1:AN:82:ILE:HG21	1.98	0.45
1:AG:136:VAL:CG2	1:AK:8:VAL:HG11	2.47	0.45
1:AX:113:SER:O	1:BY:106:MET:HG3	2.17	0.45
1:BA:90:LEU:HD21	1:BA:92:ARG:HG3	1.99	0.45
1:BH:110:VAL:HG22	1:BX:110:VAL:HG22	1.99	0.45
1:BN:58:THR:O	1:BN:91:VAL:HA	2.17	0.45
1:CA:130:LEU:HD23	1:CA:130:LEU:HA	1.85	0.45
1:BA:118:ALA:HB1	1:CB:95:VAL:HG11	1.98	0.45
1:BG:90:LEU:HD21	1:BG:92:ARG:HG3	1.99	0.45
1:BM:26:ASP:OD1	1:BM:27:THR:N	2.48	0.45
1:BY:90:LEU:HD21	1:BY:92:ARG:HG3	1.99	0.45
1:AD:58:THR:O	1:AD:91:VAL:HA	2.17	0.45
1:AR:26:ASP:OD1	1:AR:27:THR:N	2.48	0.45
1:AY:58:THR:O	1:AY:91:VAL:HA	2.17	0.45
1:BA:72:VAL:HB	1:BC:78:VAL:HG22	1.98	0.45
1:BV:90:LEU:HD21	1:BV:92:ARG:HG3	1.99	0.45
1:AF:90:LEU:HD21	1:AF:92:ARG:HG3	1.99	0.45
1:AH:14:THR:OG1	1:AH:146:ASP:OD1	2.23	0.45
1:AL:99:VAL:HA	1:BM:121:TYR:CE1	2.52	0.45
1:AM:58:THR:O	1:AM:91:VAL:HA	2.17	0.45
1:AS:58:THR:O	1:AS:91:VAL:HA	2.17	0.45
1:AV:58:THR:O	1:AV:91:VAL:HA	2.17	0.45
1:AX:78:VAL:HG21	1:BX:73:PRO:HG2	1.99	0.45
1:BD:122:ASP:OD2	1:BD:125:ASN:ND2	2.41	0.45
1:BS:14:THR:OG1	1:BS:146:ASP:OD1	2.24	0.45
1:BU:84:ARG:NH1	1:CF:105:VAL:O	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CC:58:THR:O	1:CC:91:VAL:HA	2.17	0.45
1:AK:93:LYS:NZ	1:AK:94:GLY:O	2.50	0.45
1:BB:58:THR:O	1:BB:91:VAL:HA	2.17	0.45
1:BC:93:LYS:NZ	1:BC:94:GLY:O	2.50	0.45
1:BS:90:LEU:HD21	1:BS:92:ARG:HG3	1.99	0.45
1:AA:137:LEU:HD11	1:AH:110:VAL:HG21	1.99	0.45
1:AE:130:LEU:HD23	1:AE:130:LEU:HA	1.85	0.45
1:AL:90:LEU:HD21	1:AL:92:ARG:HG3	1.99	0.45
1:AW:93:LYS:NZ	1:AW:94:GLY:O	2.50	0.45
1:BM:14:THR:OG1	1:BM:146:ASP:OD1	2.24	0.45
1:BP:90:LEU:HD21	1:BP:92:ARG:HG3	1.99	0.45
1:AC:79:ILE:HG13	1:BG:101:GLN:NE2	2.32	0.44
1:AI:90:LEU:HD21	1:AI:92:ARG:HG3	1.99	0.44
1:AJ:58:THR:O	1:AJ:91:VAL:HA	2.17	0.44
1:AO:14:THR:OG1	1:AO:146:ASP:OD1	2.25	0.44
1:AW:121:TYR:CE1	1:BB:99:VAL:HA	2.52	0.44
1:AZ:93:LYS:NZ	1:AZ:94:GLY:O	2.50	0.44
1:BD:153:LEU:HG	1:CH:34:LYS:HD2	1.97	0.44
1:BE:99:VAL:HA	1:CG:121:TYR:CE1	2.52	0.44
1:BI:93:LYS:NZ	1:BI:94:GLY:O	2.50	0.44
1:CA:93:LYS:NZ	1:CA:94:GLY:O	2.50	0.44
1:AJ:105:VAL:O	1:BI:84:ARG:NH1	2.50	0.44
1:BD:90:LEU:HD21	1:BD:92:ARG:HG3	1.99	0.44
1:AE:133:ALA:HB2	1:BQ:91:VAL:HG21	1.99	0.44
1:AJ:91:VAL:HG21	1:BI:133:ALA:HB2	1.99	0.44
1:AQ:110:VAL:HG21	1:AV:137:LEU:HD11	1.98	0.44
1:BD:127:LYS:O	1:CH:13:GLN:HG3	2.17	0.44
1:BD:131:SER:HB3	1:CH:13:GLN:HG2	1.98	0.44
1:BJ:90:LEU:HD21	1:BJ:92:ARG:HG3	1.99	0.44
1:CB:90:LEU:HD21	1:CB:92:ARG:HG3	1.99	0.44
1:CH:14:THR:OG1	1:CH:146:ASP:OD1	2.25	0.44
1:AK:14:THR:OG1	1:AK:146:ASP:OD1	2.23	0.44
1:AW:130:LEU:HD23	1:AW:130:LEU:HA	1.85	0.44
1:AZ:21:TYR:HE2	1:CC:131:SER:OG	2.00	0.44
1:BQ:58:THR:O	1:BQ:91:VAL:HA	2.17	0.44
1:CF:58:THR:O	1:CF:91:VAL:HA	2.17	0.44
1:AR:90:LEU:HD21	1:AR:92:ARG:HG3	1.99	0.44
1:BA:140:GLN:NE2	1:CB:3:SER:O	2.50	0.44
1:BD:118:ALA:HB1	1:CH:95:VAL:HG11	1.99	0.44
1:BH:129:ALA:HB2	1:BX:93:LYS:CB	2.48	0.44
1:BH:147:THR:OG1	1:BX:1:ALA:N	2.49	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BU:86:THR:HA	1:BU:112:ILE:O	2.18	0.44
1:CD:93:LYS:NZ	1:CD:94:GLY:O	2.50	0.44
1:AB:93:LYS:NZ	1:AB:94:GLY:O	2.50	0.44
1:AD:95:VAL:HG11	1:AN:118:ALA:CB	2.47	0.44
1:AH:93:LYS:NZ	1:AH:94:GLY:O	2.50	0.44
1:AO:95:VAL:HG11	1:BP:118:ALA:HB1	1.99	0.44
1:AP:34:LYS:HG3	1:CD:153:LEU:HD13	1.99	0.44
1:AR:113:SER:OG	1:BS:107:LEU:HB3	2.17	0.44
1:AR:126:VAL:HA	1:BS:106:MET:SD	2.58	0.44
1:AX:90:LEU:HD21	1:AX:92:ARG:HG3	1.99	0.44
1:BI:86:THR:HA	1:BI:112:ILE:O	2.18	0.44
1:BM:86:THR:HG22	1:BM:113:SER:CB	2.48	0.44
1:BM:90:LEU:HD21	1:BM:92:ARG:HG3	1.99	0.44
1:BO:130:LEU:HD23	1:BO:130:LEU:HA	1.85	0.44
1:BX:86:THR:HA	1:BX:112:ILE:O	2.18	0.44
1:AB:86:THR:HA	1:AB:112:ILE:O	2.18	0.44
1:AB:118:ALA:HB1	1:BW:95:VAL:HG11	1.98	0.44
1:AC:90:LEU:HD21	1:AC:92:ARG:HG3	1.99	0.44
1:AC:113:SER:OG	1:BG:107:LEU:HB3	2.17	0.44
1:AE:93:LYS:NZ	1:AE:94:GLY:O	2.50	0.44
1:AO:86:THR:HG22	1:AO:113:SER:CB	2.48	0.44
1:AQ:93:LYS:NZ	1:AQ:94:GLY:O	2.50	0.44
1:AR:118:ALA:HB1	1:BS:95:VAL:HG11	2.00	0.44
1:AU:113:SER:OG	1:BV:107:LEU:HB3	2.18	0.44
1:AZ:139:GLN:OE1	1:CC:5:SER:N	2.48	0.44
1:BH:14:THR:OG1	1:BH:146:ASP:OD1	2.26	0.44
1:BH:58:THR:O	1:BH:91:VAL:HA	2.17	0.44
1:BM:122:ASP:OD2	1:BM:125:ASN:ND2	2.41	0.44
1:BS:130:LEU:HD23	1:BS:130:LEU:HA	1.81	0.44
1:AE:86:THR:HA	1:AE:112:ILE:O	2.18	0.44
1:AF:95:VAL:HG11	1:BJ:118:ALA:HB1	1.99	0.44
1:AO:90:LEU:HD21	1:AO:92:ARG:HG3	1.99	0.44
1:AT:86:THR:HA	1:AT:112:ILE:O	2.18	0.44
1:AU:90:LEU:HD21	1:AU:92:ARG:HG3	1.99	0.44
1:BF:86:THR:HA	1:BF:112:ILE:O	2.18	0.44
1:BJ:86:THR:HG22	1:BJ:113:SER:CB	2.48	0.44
1:BR:93:LYS:NZ	1:BR:94:GLY:O	2.50	0.44
1:BW:58:THR:O	1:BW:91:VAL:HA	2.17	0.44
1:AC:28:ALA:HB1	1:AC:29:PRO:HD2	2.00	0.44
1:AC:95:VAL:HG11	1:BG:118:ALA:HB1	2.00	0.44
1:AL:86:THR:HG22	1:AL:113:SER:CB	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:98:ALA:HB3	1:AP:101:GLN:CG	2.47	0.44
1:AP:136:VAL:CG2	1:CD:8:VAL:HG11	2.47	0.44
1:AW:84:ARG:NH1	1:BB:105:VAL:O	2.51	0.44
1:AX:122:ASP:OD2	1:AX:125:ASN:ND2	2.41	0.44
1:AY:126:VAL:HG13	1:BC:106:MET:SD	2.58	0.44
1:BV:14:THR:OG1	1:BV:146:ASP:OD1	2.25	0.44
1:BZ:58:THR:O	1:BZ:91:VAL:HA	2.17	0.44
1:CA:86:THR:HA	1:CA:112:ILE:O	2.18	0.44
1:CE:90:LEU:HD21	1:CE:92:ARG:HG3	1.99	0.44
1:CH:90:LEU:HD21	1:CH:92:ARG:HG3	1.99	0.44
1:AE:99:VAL:HA	1:BQ:121:TYR:CE1	2.53	0.43
1:AK:74:ASN:O	1:BM:76:ASN:ND2	2.51	0.43
1:AW:86:THR:HA	1:AW:112:ILE:O	2.18	0.43
1:BA:28:ALA:HB1	1:BA:29:PRO:HD2	2.00	0.43
1:BD:107:LEU:HB3	1:CH:113:SER:OG	2.18	0.43
1:BF:93:LYS:NZ	1:BF:94:GLY:O	2.50	0.43
1:BR:86:THR:HA	1:BR:112:ILE:O	2.18	0.43
1:AC:26:ASP:OD1	1:AC:27:THR:N	2.48	0.43
1:AF:86:THR:HG22	1:AF:113:SER:CB	2.48	0.43
1:AF:122:ASP:OD2	1:AF:125:ASN:ND2	2.41	0.43
1:AN:86:THR:HA	1:AN:112:ILE:O	2.18	0.43
1:AN:137:LEU:HD23	1:AN:137:LEU:HA	1.89	0.43
1:AR:78:VAL:HG11	1:BR:72:VAL:HG11	2.00	0.43
1:AR:86:THR:HG22	1:AR:113:SER:CB	2.48	0.43
1:AZ:108:VAL:HG22	1:CC:112:ILE:HG23	1.99	0.43
1:BA:86:THR:HG22	1:BA:113:SER:CB	2.48	0.43
1:BA:110:VAL:HG22	1:CB:110:VAL:HG22	2.00	0.43
1:BD:14:THR:OG1	1:BD:146:ASP:OD1	2.24	0.43
1:BD:128:ALA:HA	1:CH:16:PHE:HE2	1.83	0.43
1:BG:86:THR:HG22	1:BG:113:SER:CB	2.48	0.43
1:BK:98:ALA:HB3	1:BK:101:GLN:CG	2.47	0.43
1:BL:93:LYS:NZ	1:BL:94:GLY:O	2.50	0.43
1:BL:95:VAL:HG11	1:BN:118:ALA:HB1	2.00	0.43
1:BL:121:TYR:CZ	1:BN:99:VAL:HA	2.53	0.43
1:BU:93:LYS:NZ	1:BU:94:GLY:O	2.50	0.43
1:BV:86:THR:HG22	1:BV:113:SER:CB	2.48	0.43
1:CD:86:THR:HA	1:CD:112:ILE:O	2.18	0.43
1:CE:28:ALA:HB1	1:CE:29:PRO:HD2	2.00	0.43
1:AA:14:THR:OG1	1:AA:146:ASP:OD1	2.26	0.43
1:AO:136:VAL:HG21	1:BP:59:ILE:HD13	1.99	0.43
1:AU:86:THR:HG22	1:AU:113:SER:CB	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AZ:152:ILE:HG12	1:CD:26:ASP:OD2	2.19	0.43
1:BG:28:ALA:HB1	1:BG:29:PRO:HD2	2.00	0.43
1:BJ:28:ALA:HB1	1:BJ:29:PRO:HD2	2.00	0.43
1:BO:93:LYS:NZ	1:BO:94:GLY:O	2.50	0.43
1:BP:86:THR:HG22	1:BP:113:SER:CB	2.48	0.43
1:AD:107:LEU:HB3	1:AN:113:SER:OG	2.18	0.43
1:AJ:93:LYS:CB	1:BI:129:ALA:HB2	2.48	0.43
1:AZ:86:THR:HA	1:AZ:112:ILE:O	2.18	0.43
1:BY:86:THR:HG22	1:BY:113:SER:CB	2.48	0.43
1:AF:28:ALA:HB1	1:AF:29:PRO:HD2	2.00	0.43
1:AG:113:SER:OG	1:AK:107:LEU:HB3	2.18	0.43
1:BZ:137:LEU:HD23	1:BZ:137:LEU:HA	1.89	0.43
1:CB:86:THR:HG22	1:CB:113:SER:CB	2.48	0.43
1:CH:86:THR:HG22	1:CH:113:SER:CB	2.48	0.43
1:AE:129:ALA:HB2	1:BQ:93:LYS:CB	2.48	0.43
1:AQ:75:SER:HA	1:BS:76:ASN:HD21	1.83	0.43
1:AU:76:ASN:HD21	1:BU:75:SER:HA	1.82	0.43
1:AZ:1:ALA:HB3	1:CC:146:ASP:HB2	2.00	0.43
1:BC:86:THR:HA	1:BC:112:ILE:O	2.18	0.43
1:BD:110:VAL:HG22	1:CH:110:VAL:HG22	2.00	0.43
1:BE:137:LEU:HD23	1:BE:137:LEU:HA	1.89	0.43
1:BS:28:ALA:HB1	1:BS:29:PRO:HD2	2.00	0.43
1:AA:98:ALA:HB3	1:AA:101:GLN:CG	2.47	0.43
1:AA:118:ALA:HB1	1:AH:95:VAL:HG11	2.01	0.43
1:AL:28:ALA:HB1	1:AL:29:PRO:HD2	2.00	0.43
1:BC:72:VAL:HG11	1:CH:78:VAL:HG11	2.01	0.43
1:BC:73:PRO:HG2	1:CH:78:VAL:HG21	2.01	0.43
1:BL:86:THR:HA	1:BL:112:ILE:O	2.18	0.43
1:BM:28:ALA:HB1	1:BM:29:PRO:HD2	2.00	0.43
1:BS:86:THR:HG22	1:BS:113:SER:CB	2.48	0.43
1:BU:95:VAL:HG11	1:CF:118:ALA:HB1	2.01	0.43
1:BY:28:ALA:HB1	1:BY:29:PRO:HD2	2.00	0.43
1:AI:86:THR:HG22	1:AI:113:SER:CB	2.48	0.43
1:AL:1:ALA:N	1:BM:152:ILE:O	2.52	0.43
1:BD:28:ALA:HB1	1:BD:29:PRO:HD2	2.00	0.43
1:BD:86:THR:HG22	1:BD:113:SER:CB	2.48	0.43
1:BI:130:LEU:HD23	1:BI:130:LEU:HA	1.85	0.43
1:CG:93:LYS:NZ	1:CG:94:GLY:O	2.50	0.43
1:AD:101:GLN:CD	1:AN:79:ILE:H	2.26	0.43
1:AH:130:LEU:HD23	1:AH:130:LEU:HA	1.85	0.43
1:AI:130:LEU:HA	1:AI:130:LEU:HD23	1.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:14:THR:OG1	1:AM:146:ASP:OD1	2.26	0.43
1:AO:110:VAL:HG22	1:BP:110:VAL:HG22	2.01	0.43
1:AX:86:THR:HG22	1:AX:113:SER:CB	2.48	0.43
1:BA:95:VAL:HG11	1:CB:118:ALA:CB	2.48	0.43
1:BA:133:ALA:HB2	1:CB:91:VAL:HG21	2.00	0.43
1:BV:28:ALA:HB1	1:BV:29:PRO:HD2	2.00	0.43
1:AF:110:VAL:HG21	1:BJ:137:LEU:HD11	2.00	0.43
1:AL:106:MET:SD	1:BM:126:VAL:HG13	2.59	0.43
1:BH:95:VAL:HG11	1:BX:118:ALA:CB	2.47	0.43
1:AB:14:THR:OG1	1:AB:146:ASP:OD1	2.23	0.42
1:AG:136:VAL:HG21	1:AK:59:ILE:HD13	2.01	0.42
1:AS:126:VAL:HA	1:CA:106:MET:SD	2.59	0.42
1:AT:26:ASP:OD1	1:AT:27:THR:N	2.52	0.42
1:AT:137:LEU:HD23	1:AT:137:LEU:HA	1.88	0.42
1:BH:118:ALA:HB1	1:BX:95:VAL:HG11	2.00	0.42
1:BN:92:ARG:HG2	1:BN:107:LEU:HD13	2.01	0.42
1:CH:28:ALA:HB1	1:CH:29:PRO:HD2	2.00	0.42
1:AA:99:VAL:HA	1:AH:121:TYR:CZ	2.54	0.42
1:AB:86:THR:HG22	1:AB:113:SER:CB	2.50	0.42
1:AC:86:THR:HG22	1:AC:113:SER:CB	2.48	0.42
1:AG:110:VAL:HG21	1:AK:137:LEU:HD11	2.00	0.42
1:AK:26:ASP:OD1	1:AK:27:THR:N	2.52	0.42
1:AL:149:LEU:HD13	1:BM:123:ALA:HB1	2.01	0.42
1:AM:98:ALA:HB3	1:AM:101:GLN:CG	2.47	0.42
1:AQ:86:THR:HA	1:AQ:112:ILE:O	2.18	0.42
1:AQ:118:ALA:HB1	1:AV:95:VAL:HG11	2.01	0.42
1:AZ:137:LEU:HD21	1:CC:89:PHE:CD2	2.54	0.42
1:BA:131:SER:HB2	1:CB:11:ALA:O	2.19	0.42
1:BL:26:ASP:OD1	1:BL:27:THR:N	2.52	0.42
1:BT:98:ALA:HB3	1:BT:101:GLN:CG	2.47	0.42
1:BU:14:THR:OG1	1:BU:146:ASP:OD1	2.23	0.42
1:CE:86:THR:HG22	1:CE:113:SER:CB	2.48	0.42
1:CG:86:THR:HA	1:CG:112:ILE:O	2.18	0.42
1:AB:130:LEU:HD13	1:BW:144:ILE:HG22	2.01	0.42
1:AG:13:GLN:CG	1:AK:131:SER:HB3	2.49	0.42
1:AJ:1:ALA:O	1:BI:143:GLY:HA3	2.18	0.42
1:AO:28:ALA:HB1	1:AO:29:PRO:HD2	2.00	0.42
1:BC:86:THR:HG22	1:BC:113:SER:CB	2.50	0.42
1:BI:26:ASP:OD1	1:BI:27:THR:N	2.52	0.42
1:BI:137:LEU:HD23	1:BI:137:LEU:HA	1.88	0.42
1:BL:130:LEU:HA	1:BL:130:LEU:HD23	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BN:98:ALA:HB3	1:BN:101:GLN:CG	2.47	0.42
1:BU:26:ASP:OD1	1:BU:27:THR:N	2.52	0.42
1:BZ:14:THR:OG1	1:BZ:146:ASP:OD1	2.26	0.42
1:CD:26:ASP:OD1	1:CD:27:THR:N	2.53	0.42
1:CD:86:THR:HG22	1:CD:113:SER:CB	2.50	0.42
1:AG:92:ARG:HG2	1:AG:107:LEU:HD13	2.01	0.42
1:AH:86:THR:HA	1:AH:112:ILE:O	2.18	0.42
1:AK:72:VAL:CG1	1:BM:78:VAL:HG11	2.50	0.42
1:AS:118:ALA:HB1	1:CA:95:VAL:HG11	2.01	0.42
1:AU:28:ALA:HB1	1:AU:29:PRO:HD2	2.00	0.42
1:AW:153:LEU:HB3	1:BB:34:LYS:HD2	2.00	0.42
1:BF:26:ASP:OD1	1:BF:27:THR:N	2.52	0.42
1:BF:86:THR:HG22	1:BF:113:SER:CB	2.50	0.42
1:BL:86:THR:HG22	1:BL:113:SER:CB	2.50	0.42
1:BO:26:ASP:OD1	1:BO:27:THR:N	2.52	0.42
1:BO:86:THR:HG22	1:BO:113:SER:CB	2.50	0.42
1:BP:28:ALA:HB1	1:BP:29:PRO:HD2	2.00	0.42
1:BY:14:THR:OG1	1:BY:146:ASP:OD1	2.24	0.42
1:CC:98:ALA:HB3	1:CC:101:GLN:CG	2.47	0.42
1:CF:92:ARG:HG2	1:CF:107:LEU:HD13	2.01	0.42
1:AA:92:ARG:HG2	1:AA:107:LEU:HD13	2.01	0.42
1:BH:92:ARG:HG2	1:BH:107:LEU:HD13	2.01	0.42
1:BK:92:ARG:HG2	1:BK:107:LEU:HD13	2.01	0.42
1:BO:86:THR:HA	1:BO:112:ILE:O	2.18	0.42
1:BR:86:THR:HG22	1:BR:113:SER:CB	2.50	0.42
1:BX:130:LEU:HD23	1:BX:130:LEU:HA	1.85	0.42
1:CC:92:ARG:HG2	1:CC:107:LEU:HD13	2.01	0.42
1:AD:92:ARG:HG2	1:AD:107:LEU:HD13	2.01	0.42
1:AG:127:LYS:O	1:AK:13:GLN:HG3	2.20	0.42
1:AL:14:THR:OG1	1:AL:146:ASP:OD1	2.24	0.42
1:AN:26:ASP:OD1	1:AN:27:THR:N	2.53	0.42
1:AQ:26:ASP:OD1	1:AQ:27:THR:N	2.52	0.42
1:AQ:86:THR:HG22	1:AQ:113:SER:CB	2.50	0.42
1:AS:92:ARG:HG2	1:AS:107:LEU:HD13	2.01	0.42
1:AV:92:ARG:HG2	1:AV:107:LEU:HD13	2.01	0.42
1:AX:28:ALA:HB1	1:AX:29:PRO:HD2	2.00	0.42
1:AX:136:VAL:HG21	1:BY:59:ILE:HD13	2.01	0.42
1:BC:26:ASP:OD1	1:BC:27:THR:N	2.52	0.42
1:BD:136:VAL:HG22	1:CH:8:VAL:HG11	2.02	0.42
1:BL:110:VAL:HG22	1:BN:110:VAL:HG22	2.01	0.42
1:BT:92:ARG:HG2	1:BT:107:LEU:HD13	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CB:28:ALA:HB1	1:CB:29:PRO:HD2	2.00	0.42
1:AG:98:ALA:HB3	1:AG:101:GLN:CG	2.47	0.42
1:AH:26:ASP:OD1	1:AH:27:THR:N	2.52	0.42
1:AP:84:ARG:HH12	1:CD:105:VAL:C	2.08	0.42
1:AR:28:ALA:HB1	1:AR:29:PRO:HD2	2.00	0.42
1:AT:75:SER:HA	1:BV:76:ASN:HD21	1.84	0.42
1:BD:79:ILE:HG13	1:CH:101:GLN:NE2	2.35	0.42
1:BE:14:THR:OG1	1:BE:146:ASP:OD1	2.26	0.42
1:AM:92:ARG:HG2	1:AM:107:LEU:HD13	2.01	0.42
1:AP:92:ARG:HG2	1:AP:107:LEU:HD13	2.01	0.42
1:BI:86:THR:HG22	1:BI:113:SER:CB	2.50	0.42
1:BT:86:THR:HG22	1:BT:113:SER:CB	2.50	0.42
1:BU:86:THR:HG22	1:BU:113:SER:CB	2.50	0.42
1:BW:92:ARG:HG2	1:BW:107:LEU:HD13	2.01	0.42
1:CA:86:THR:HG22	1:CA:113:SER:CB	2.50	0.42
1:AD:86:THR:HG22	1:AD:113:SER:CB	2.50	0.42
1:AE:26:ASP:OD1	1:AE:27:THR:N	2.52	0.42
1:AJ:106:MET:SD	1:BI:126:VAL:HG13	2.60	0.42
1:AK:86:THR:HA	1:AK:112:ILE:O	2.18	0.42
1:AK:86:THR:HG22	1:AK:113:SER:CB	2.50	0.42
1:AN:86:THR:HG22	1:AN:113:SER:CB	2.50	0.42
1:AN:93:LYS:NZ	1:AN:94:GLY:O	2.50	0.42
1:AW:26:ASP:OD1	1:AW:27:THR:N	2.52	0.42
1:AW:86:THR:HG22	1:AW:113:SER:CB	2.50	0.42
1:AZ:86:THR:HG22	1:AZ:113:SER:CB	2.50	0.42
1:BE:92:ARG:HG2	1:BE:107:LEU:HD13	2.01	0.42
1:BM:51:HIS:CD2	1:BN:152:ILE:HD11	2.55	0.42
1:BX:26:ASP:OD1	1:BX:27:THR:N	2.52	0.42
1:CA:137:LEU:HD23	1:CA:137:LEU:HA	1.88	0.42
1:AA:86:THR:HG22	1:AA:113:SER:CB	2.50	0.42
1:AB:110:VAL:HG22	1:BW:110:VAL:HG22	2.01	0.42
1:AE:137:LEU:HD11	1:BQ:110:VAL:HG21	2.02	0.42
1:AI:28:ALA:HB1	1:AI:29:PRO:HD2	2.00	0.42
1:AL:137:LEU:HD11	1:BM:110:VAL:HG21	2.02	0.42
1:AS:86:THR:HG22	1:AS:113:SER:CB	2.50	0.42
1:AV:86:THR:HG22	1:AV:113:SER:CB	2.50	0.42
1:AX:118:ALA:CB	1:BY:95:VAL:HG11	2.47	0.42
1:BA:5:SER:HB2	1:CB:139:GLN:NE2	2.35	0.42
1:AD:125:ASN:OD1	1:AN:48:VAL:HA	2.20	0.41
1:AJ:40:ALA:HA	1:AJ:50:THR:HG21	2.02	0.41
1:AJ:92:ARG:HG2	1:AJ:107:LEU:HD13	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:40:ALA:HA	1:AM:50:THR:HG21	2.02	0.41
1:AZ:24:THR:CG2	1:AZ:39:THR:HB	2.51	0.41
1:AZ:148:ALA:HA	1:CC:87:TYR:CE2	2.55	0.41
1:BB:40:ALA:HA	1:BB:50:THR:HG21	2.02	0.41
1:BC:137:LEU:HD23	1:BC:137:LEU:HA	1.88	0.41
1:BD:113:SER:OG	1:CH:107:LEU:HB3	2.20	0.41
1:BH:84:ARG:NH1	1:BX:105:VAL:O	2.45	0.41
1:BL:24:THR:CG2	1:BL:39:THR:HB	2.50	0.41
1:AB:24:THR:CG2	1:AB:39:THR:HB	2.51	0.41
1:AF:110:VAL:HG22	1:BJ:110:VAL:HG22	2.02	0.41
1:AJ:107:LEU:HB3	1:BI:113:SER:OG	2.21	0.41
1:AO:127:LYS:HG3	1:BP:149:LEU:HD11	2.02	0.41
1:AP:40:ALA:HA	1:AP:50:THR:HG21	2.02	0.41
1:AT:24:THR:CG2	1:AT:39:THR:HB	2.51	0.41
1:AU:107:LEU:HB3	1:BV:113:SER:OG	2.20	0.41
1:AZ:131:SER:OG	1:CC:21:TYR:CE2	2.73	0.41
1:BB:86:THR:HG22	1:BB:113:SER:CB	2.50	0.41
1:BF:24:THR:CG2	1:BF:39:THR:HB	2.51	0.41
1:BU:24:THR:CG2	1:BU:39:THR:HB	2.51	0.41
1:BZ:86:THR:HG22	1:BZ:113:SER:CB	2.50	0.41
1:BZ:92:ARG:HG2	1:BZ:107:LEU:HD13	2.01	0.41
1:CD:24:THR:CG2	1:CD:39:THR:HB	2.51	0.41
1:CG:86:THR:HG22	1:CG:113:SER:CB	2.50	0.41
1:AE:86:THR:HG22	1:AE:113:SER:CB	2.50	0.41
1:AE:106:MET:SD	1:BQ:126:VAL:HG13	2.59	0.41
1:AL:78:VAL:HG11	1:BL:72:VAL:CG1	2.48	0.41
1:AS:98:ALA:HB3	1:AS:101:GLN:CG	2.47	0.41
1:AX:153:LEU:HB3	1:BW:27:THR:OG1	2.21	0.41
1:AY:86:THR:HG22	1:AY:113:SER:CB	2.50	0.41
1:BQ:86:THR:HG22	1:BQ:113:SER:CB	2.50	0.41
1:BR:26:ASP:OD1	1:BR:27:THR:N	2.52	0.41
1:AA:40:ALA:HA	1:AA:50:THR:HG21	2.02	0.41
1:AB:53:VAL:HG23	1:AH:149:LEU:O	2.21	0.41
1:AD:113:SER:OG	1:AN:107:LEU:HB3	2.20	0.41
1:AG:136:VAL:HG22	1:AK:8:VAL:HG11	2.02	0.41
1:AM:86:THR:HG22	1:AM:113:SER:CB	2.50	0.41
1:AY:40:ALA:HA	1:AY:50:THR:HG21	2.02	0.41
1:AZ:14:THR:OG1	1:AZ:146:ASP:OD1	2.23	0.41
1:AZ:26:ASP:OD1	1:AZ:27:THR:N	2.52	0.41
1:BA:130:LEU:HD23	1:BA:130:LEU:HA	1.81	0.41
1:BE:121:TYR:CE1	1:CG:99:VAL:HA	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BI:92:ARG:HG2	1:BI:107:LEU:HD13	2.03	0.41
1:BO:24:THR:CG2	1:BO:39:THR:HB	2.51	0.41
1:BQ:40:ALA:HA	1:BQ:50:THR:HG21	2.02	0.41
1:BR:24:THR:CG2	1:BR:39:THR:HB	2.50	0.41
1:BX:86:THR:HG22	1:BX:113:SER:CB	2.50	0.41
1:CA:26:ASP:OD1	1:CA:27:THR:N	2.52	0.41
1:CC:86:THR:HG22	1:CC:113:SER:CB	2.50	0.41
1:CG:26:ASP:OD1	1:CG:27:THR:N	2.52	0.41
1:CG:137:LEU:HD23	1:CG:137:LEU:HA	1.89	0.41
1:AA:27:THR:OG1	1:BG:153:LEU:HB3	2.20	0.41
1:AF:14:THR:OG1	1:AF:146:ASP:OD1	2.25	0.41
1:AG:86:THR:HG22	1:AG:113:SER:CB	2.50	0.41
1:AH:86:THR:HG22	1:AH:113:SER:CB	2.50	0.41
1:AJ:86:THR:HG22	1:AJ:113:SER:CB	2.50	0.41
1:AT:130:LEU:HD23	1:AT:130:LEU:HA	1.85	0.41
1:AV:40:ALA:HA	1:AV:50:THR:HG21	2.02	0.41
1:BH:40:ALA:HA	1:BH:50:THR:HG21	2.02	0.41
1:BQ:98:ALA:HB3	1:BQ:101:GLN:CG	2.47	0.41
1:CA:24:THR:CG2	1:CA:39:THR:HB	2.50	0.41
1:CA:92:ARG:HG2	1:CA:107:LEU:HD13	2.03	0.41
1:AD:13:GLN:HG3	1:AN:127:LYS:O	2.21	0.41
1:AG:40:ALA:HA	1:AG:50:THR:HG21	2.02	0.41
1:AH:24:THR:CG2	1:AH:39:THR:HB	2.50	0.41
1:AP:86:THR:HG22	1:AP:113:SER:CB	2.50	0.41
1:AP:118:ALA:CB	1:CD:95:VAL:HG11	2.48	0.41
1:AT:86:THR:HG22	1:AT:113:SER:CB	2.50	0.41
1:AT:93:LYS:NZ	1:AT:94:GLY:O	2.50	0.41
1:AX:78:VAL:HG11	1:BX:72:VAL:HG11	2.02	0.41
1:AY:92:ARG:HG2	1:AY:107:LEU:HD13	2.01	0.41
1:BB:92:ARG:HG2	1:BB:107:LEU:HD13	2.01	0.41
1:BE:40:ALA:HA	1:BE:50:THR:HG21	2.02	0.41
1:BG:14:THR:OG1	1:BG:146:ASP:OD1	2.25	0.41
1:BI:24:THR:CG2	1:BI:39:THR:HB	2.51	0.41
1:BK:86:THR:HG22	1:BK:113:SER:CB	2.50	0.41
1:BN:86:THR:HG22	1:BN:113:SER:CB	2.50	0.41
1:AC:76:ASN:ND2	1:BF:74:ASN:O	2.53	0.41
1:AQ:130:LEU:HD23	1:AQ:130:LEU:HA	1.85	0.41
1:AR:126:VAL:HG13	1:BS:106:MET:SD	2.61	0.41
1:AU:95:VAL:HG11	1:BV:118:ALA:HB1	2.01	0.41
1:BC:24:THR:CG2	1:BC:39:THR:HB	2.51	0.41
1:BD:13:GLN:HG2	1:CH:131:SER:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:92:ARG:HG2	1:BF:107:LEU:HD13	2.03	0.41
1:BH:86:THR:HG22	1:BH:113:SER:CB	2.50	0.41
1:BL:92:ARG:HG2	1:BL:107:LEU:HD13	2.03	0.41
1:BN:40:ALA:HA	1:BN:50:THR:HG21	2.02	0.41
1:CC:40:ALA:HA	1:CC:50:THR:HG21	2.02	0.41
1:CF:40:ALA:HA	1:CF:50:THR:HG21	2.02	0.41
1:AE:92:ARG:HG2	1:AE:107:LEU:HD13	2.03	0.41
1:AN:92:ARG:HG2	1:AN:107:LEU:HD13	2.03	0.41
1:AR:106:MET:SD	1:BS:126:VAL:HG13	2.60	0.41
1:AY:98:ALA:HB3	1:AY:101:GLN:CG	2.47	0.41
1:BB:137:LEU:HD23	1:BB:137:LEU:HA	1.89	0.41
1:BE:86:THR:HG22	1:BE:113:SER:CB	2.50	0.41
1:BW:86:THR:HG22	1:BW:113:SER:CB	2.50	0.41
1:AB:106:MET:HA	1:BW:115:PRO:HD3	2.03	0.41
1:AD:106:MET:HG3	1:AN:113:SER:O	2.20	0.41
1:AE:24:THR:CG2	1:AE:39:THR:HB	2.51	0.41
1:AG:153:LEU:HD22	1:AK:61:PHE:HD2	1.86	0.41
1:AJ:125:ASN:OD1	1:BI:48:VAL:HA	2.21	0.41
1:AK:24:THR:CG2	1:AK:39:THR:HB	2.51	0.41
1:AO:55:SER:O	1:AO:55:SER:OG	2.39	0.41
1:AR:14:THR:OG1	1:AR:146:ASP:OD1	2.24	0.41
1:AS:40:ALA:HA	1:AS:50:THR:HG21	2.02	0.41
1:AW:118:ALA:HB1	1:BB:95:VAL:HG11	2.02	0.41
1:AW:153:LEU:HD23	1:AW:153:LEU:HA	1.90	0.41
1:AY:121:TYR:CE1	1:BC:99:VAL:HA	2.55	0.41
1:AZ:130:LEU:HD23	1:AZ:130:LEU:HA	1.85	0.41
1:BD:34:LYS:HD2	1:CH:153:LEU:HG	2.03	0.41
1:BQ:92:ARG:HG2	1:BQ:107:LEU:HD13	2.01	0.41
1:BR:137:LEU:HD23	1:BR:137:LEU:HA	1.88	0.41
1:CF:86:THR:HG22	1:CF:113:SER:CB	2.50	0.41
1:AQ:24:THR:CG2	1:AQ:39:THR:HB	2.51	0.41
1:AZ:92:ARG:HG2	1:AZ:107:LEU:HD13	2.03	0.41
1:BI:14:THR:OG1	1:BI:146:ASP:OD1	2.23	0.41
1:BN:32:LEU:CD1	1:BN:65:LYS:HG2	2.51	0.41
1:BO:137:LEU:HD23	1:BO:137:LEU:HA	1.88	0.41
1:BW:32:LEU:CD1	1:BW:65:LYS:HG2	2.51	0.41
1:AB:26:ASP:OD1	1:AB:27:THR:N	2.52	0.40
1:AC:51:HIS:CD2	1:BW:152:ILE:HD11	2.56	0.40
1:AF:130:LEU:HD23	1:AF:130:LEU:HA	1.82	0.40
1:AO:149:LEU:HD11	1:BP:127:LYS:HG3	2.03	0.40
1:AP:32:LEU:CD1	1:AP:65:LYS:HG2	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AQ:74:ASN:O	1:BS:76:ASN:ND2	2.54	0.40
1:AR:74:ASN:HA	1:CD:76:ASN:O	2.21	0.40
1:AR:99:VAL:HA	1:BS:121:TYR:CE1	2.56	0.40
1:AY:137:LEU:HD23	1:AY:137:LEU:HA	1.89	0.40
1:BN:14:THR:OG1	1:BN:146:ASP:OD1	2.26	0.40
1:BR:92:ARG:HG2	1:BR:107:LEU:HD13	2.03	0.40
1:BW:40:ALA:HA	1:BW:50:THR:HG21	2.02	0.40
1:BX:153:LEU:HD23	1:BX:153:LEU:HA	1.90	0.40
1:CC:32:LEU:CD1	1:CC:65:LYS:HG2	2.51	0.40
1:CE:130:LEU:HD23	1:CE:130:LEU:HA	1.81	0.40
1:AB:92:ARG:HG2	1:AB:107:LEU:HD13	2.03	0.40
1:AC:48:VAL:HA	1:BG:125:ASN:OD1	2.21	0.40
1:AD:137:LEU:HD23	1:AD:137:LEU:HA	1.89	0.40
1:AM:32:LEU:CD1	1:AM:65:LYS:HG2	2.51	0.40
1:AO:99:VAL:HA	1:BP:121:TYR:CE1	2.56	0.40
1:AT:92:ARG:HG2	1:AT:107:LEU:HD13	2.03	0.40
1:AU:130:LEU:HD23	1:AU:130:LEU:HA	1.81	0.40
1:BH:55:SER:O	1:BH:55:SER:OG	2.39	0.40
1:AH:92:ARG:HG2	1:AH:107:LEU:HD13	2.03	0.40
1:AN:24:THR:CG2	1:AN:39:THR:HB	2.50	0.40
1:AQ:14:THR:OG1	1:AQ:146:ASP:OD1	2.23	0.40
1:BC:92:ARG:HG2	1:BC:107:LEU:HD13	2.03	0.40
1:BD:76:ASN:ND2	1:CG:74:ASN:O	2.54	0.40
1:BD:136:VAL:CG2	1:CH:8:VAL:HG11	2.51	0.40
1:BG:130:LEU:HA	1:BG:130:LEU:HD23	1.82	0.40
1:BK:40:ALA:HA	1:BK:50:THR:HG21	2.02	0.40
1:BU:110:VAL:HG21	1:CF:137:LEU:HD11	2.03	0.40
1:BX:93:LYS:NZ	1:BX:94:GLY:O	2.50	0.40
1:BY:130:LEU:HA	1:BY:130:LEU:HD23	1.82	0.40
1:BZ:32:LEU:CD1	1:BZ:65:LYS:HG2	2.51	0.40
1:CF:32:LEU:CD1	1:CF:65:LYS:HG2	2.52	0.40
1:AK:51:HIS:NE2	1:BI:150:SER:O	2.53	0.40
1:AO:110:VAL:HG21	1:BP:137:LEU:HD11	2.02	0.40
1:AQ:149:LEU:HD13	1:AV:123:ALA:HB1	2.03	0.40
1:AX:34:LYS:HD2	1:BY:153:LEU:HG	2.02	0.40
1:AY:104:GLN:HG3	1:BC:82:ILE:HG21	2.02	0.40
1:BA:59:ILE:HD13	1:CB:136:VAL:HG21	2.03	0.40
1:BB:32:LEU:CD1	1:BB:65:LYS:HG2	2.51	0.40
1:BL:110:VAL:HG21	1:BN:137:LEU:HD11	2.03	0.40
1:BX:24:THR:CG2	1:BX:39:THR:HB	2.51	0.40
1:BX:92:ARG:HG2	1:BX:107:LEU:HD13	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CG:24:THR:CG2	1:CG:39:THR:HB	2.51	0.40
1:CG:92:ARG:HG2	1:CG:107:LEU:HD13	2.03	0.40
1:AD:40:ALA:HA	1:AD:50:THR:HG21	2.02	0.40
1:AF:83:GLY:C	1:AF:84:ARG:HG2	2.47	0.40
1:AG:32:LEU:CD1	1:AG:65:LYS:HG2	2.52	0.40
1:AL:83:GLY:C	1:AL:84:ARG:HG2	2.47	0.40
1:AO:83:GLY:C	1:AO:84:ARG:HG2	2.47	0.40
1:AR:130:LEU:HD23	1:AR:130:LEU:HA	1.81	0.40
1:AY:32:LEU:CD1	1:AY:65:LYS:HG2	2.52	0.40
1:BA:148:ALA:HB1	1:CB:114:VAL:HG21	2.02	0.40
1:BT:40:ALA:HA	1:BT:50:THR:HG21	2.02	0.40
1:BV:130:LEU:HD23	1:BV:130:LEU:HA	1.82	0.40

All (13) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:147:THR:OG1	1:CE:1:ALA:N[3_555]	1.94	0.26
1:BC:9:THR:OG1	1:BC:18:SER:OG[10_455]	1.95	0.25
1:BK:84:ARG:NH1	1:BR:105:VAL:O[3_555]	2.02	0.18
1:AI:1:ALA:N	1:CE:147:THR:OG1[3_555]	2.09	0.11
1:AT:105:VAL:O	1:BT:84:ARG:NH1[2_555]	2.12	0.08
1:BF:84:ARG:NH1	1:BZ:105:VAL:O[3_555]	2.12	0.08
1:AM:84:ARG:NH1	1:BO:105:VAL:O[2_555]	2.15	0.05
1:AM:147:THR:OG1	1:BO:1:ALA:N[2_555]	2.15	0.05
1:AZ:9:THR:CG2	1:CB:14:THR:O[10_455]	2.16	0.04
1:BK:147:THR:OG1	1:BR:1:ALA:N[3_555]	2.17	0.03
1:BK:1:ALA:N	1:BR:147:THR:OG1[3_555]	2.18	0.02
1:AM:1:ALA:N	1:BO:147:THR:OG1[2_555]	2.19	0.01
1:BF:105:VAL:O	1:BZ:84:ARG:NH1[3_555]	2.19	0.01

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	AA	137/153 (90%)	135 (98%)	2 (2%)	0	100	100
1	AB	151/153 (99%)	147 (97%)	4 (3%)	0	100	100
1	AC	151/153 (99%)	149 (99%)	2 (1%)	0	100	100
1	AD	137/153 (90%)	135 (98%)	2 (2%)	0	100	100
1	AE	151/153 (99%)	147 (97%)	4 (3%)	0	100	100
1	AF	151/153 (99%)	149 (99%)	2 (1%)	0	100	100
1	AG	137/153 (90%)	135 (98%)	2 (2%)	0	100	100
1	AH	151/153 (99%)	147 (97%)	4 (3%)	0	100	100
1	AI	151/153 (99%)	149 (99%)	2 (1%)	0	100	100
1	AJ	137/153 (90%)	135 (98%)	2 (2%)	0	100	100
1	AK	151/153 (99%)	147 (97%)	4 (3%)	0	100	100
1	AL	151/153 (99%)	149 (99%)	2 (1%)	0	100	100
1	AM	137/153 (90%)	135 (98%)	2 (2%)	0	100	100
1	AN	151/153 (99%)	147 (97%)	4 (3%)	0	100	100
1	AO	151/153 (99%)	149 (99%)	2 (1%)	0	100	100
1	AP	137/153 (90%)	135 (98%)	2 (2%)	0	100	100
1	AQ	151/153 (99%)	147 (97%)	4 (3%)	0	100	100
1	AR	151/153 (99%)	149 (99%)	2 (1%)	0	100	100
1	AS	137/153 (90%)	135 (98%)	2 (2%)	0	100	100
1	AT	151/153 (99%)	148 (98%)	3 (2%)	0	100	100
1	AU	151/153 (99%)	149 (99%)	2 (1%)	0	100	100
1	AV	137/153 (90%)	135 (98%)	2 (2%)	0	100	100
1	AW	151/153 (99%)	147 (97%)	4 (3%)	0	100	100
1	AX	151/153 (99%)	149 (99%)	2 (1%)	0	100	100
1	AY	137/153 (90%)	135 (98%)	2 (2%)	0	100	100
1	AZ	151/153 (99%)	148 (98%)	3 (2%)	0	100	100
1	BA	151/153 (99%)	149 (99%)	2 (1%)	0	100	100
1	BB	137/153 (90%)	135 (98%)	2 (2%)	0	100	100
1	BC	151/153 (99%)	147 (97%)	4 (3%)	0	100	100
1	BD	151/153 (99%)	149 (99%)	2 (1%)	0	100	100
1	BE	137/153 (90%)	135 (98%)	2 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	BF	151/153 (99%)	147 (97%)	4 (3%)	0	100	100
1	BG	151/153 (99%)	149 (99%)	2 (1%)	0	100	100
1	BH	137/153 (90%)	135 (98%)	2 (2%)	0	100	100
1	BI	151/153 (99%)	148 (98%)	3 (2%)	0	100	100
1	BJ	151/153 (99%)	149 (99%)	2 (1%)	0	100	100
1	BK	137/153 (90%)	135 (98%)	2 (2%)	0	100	100
1	BL	151/153 (99%)	147 (97%)	4 (3%)	0	100	100
1	BM	151/153 (99%)	149 (99%)	2 (1%)	0	100	100
1	BN	137/153 (90%)	135 (98%)	2 (2%)	0	100	100
1	BO	151/153 (99%)	148 (98%)	3 (2%)	0	100	100
1	BP	151/153 (99%)	149 (99%)	2 (1%)	0	100	100
1	BQ	137/153 (90%)	135 (98%)	2 (2%)	0	100	100
1	BR	151/153 (99%)	147 (97%)	4 (3%)	0	100	100
1	BS	151/153 (99%)	149 (99%)	2 (1%)	0	100	100
1	BT	137/153 (90%)	135 (98%)	2 (2%)	0	100	100
1	BU	151/153 (99%)	148 (98%)	3 (2%)	0	100	100
1	BV	151/153 (99%)	149 (99%)	2 (1%)	0	100	100
1	BW	137/153 (90%)	135 (98%)	2 (2%)	0	100	100
1	BX	151/153 (99%)	148 (98%)	3 (2%)	0	100	100
1	BY	151/153 (99%)	149 (99%)	2 (1%)	0	100	100
1	BZ	137/153 (90%)	135 (98%)	2 (2%)	0	100	100
1	CA	151/153 (99%)	147 (97%)	4 (3%)	0	100	100
1	CB	151/153 (99%)	149 (99%)	2 (1%)	0	100	100
1	CC	137/153 (90%)	135 (98%)	2 (2%)	0	100	100
1	CD	151/153 (99%)	147 (97%)	4 (3%)	0	100	100
1	CE	151/153 (99%)	149 (99%)	2 (1%)	0	100	100
1	CF	137/153 (90%)	135 (98%)	2 (2%)	0	100	100
1	CG	151/153 (99%)	147 (97%)	4 (3%)	0	100	100
1	CH	151/153 (99%)	149 (99%)	2 (1%)	0	100	100
All	All	8780/9180 (96%)	8626 (98%)	154 (2%)	0	100	100

There are no Ramachandran outliers to report.

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	AA	109/119 (92%)	109 (100%)	0	100	100
1	AB	119/119 (100%)	118 (99%)	1 (1%)	73	79
1	AC	119/119 (100%)	118 (99%)	1 (1%)	73	79
1	AD	109/119 (92%)	109 (100%)	0	100	100
1	AE	119/119 (100%)	118 (99%)	1 (1%)	73	79
1	AF	119/119 (100%)	118 (99%)	1 (1%)	73	79
1	AG	109/119 (92%)	109 (100%)	0	100	100
1	AH	119/119 (100%)	118 (99%)	1 (1%)	73	79
1	AI	119/119 (100%)	118 (99%)	1 (1%)	73	79
1	AJ	109/119 (92%)	109 (100%)	0	100	100
1	AK	119/119 (100%)	118 (99%)	1 (1%)	73	79
1	AL	119/119 (100%)	118 (99%)	1 (1%)	73	79
1	AM	109/119 (92%)	109 (100%)	0	100	100
1	AN	119/119 (100%)	118 (99%)	1 (1%)	73	79
1	AO	119/119 (100%)	118 (99%)	1 (1%)	73	79
1	AP	109/119 (92%)	109 (100%)	0	100	100
1	AQ	119/119 (100%)	118 (99%)	1 (1%)	73	79
1	AR	119/119 (100%)	118 (99%)	1 (1%)	73	79
1	AS	109/119 (92%)	109 (100%)	0	100	100
1	AT	119/119 (100%)	118 (99%)	1 (1%)	73	79
1	AU	119/119 (100%)	118 (99%)	1 (1%)	73	79
1	AV	109/119 (92%)	109 (100%)	0	100	100
1	AW	119/119 (100%)	118 (99%)	1 (1%)	73	79
1	AX	119/119 (100%)	118 (99%)	1 (1%)	73	79
1	AY	109/119 (92%)	109 (100%)	0	100	100
1	AZ	119/119 (100%)	118 (99%)	1 (1%)	73	79

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	BA	119/119 (100%)	118 (99%)	1 (1%)	73	79
1	BB	109/119 (92%)	109 (100%)	0	100	100
1	BC	119/119 (100%)	118 (99%)	1 (1%)	73	79
1	BD	119/119 (100%)	118 (99%)	1 (1%)	73	79
1	BE	109/119 (92%)	109 (100%)	0	100	100
1	BF	119/119 (100%)	118 (99%)	1 (1%)	73	79
1	BG	119/119 (100%)	118 (99%)	1 (1%)	73	79
1	BH	109/119 (92%)	109 (100%)	0	100	100
1	BI	119/119 (100%)	118 (99%)	1 (1%)	73	79
1	BJ	119/119 (100%)	118 (99%)	1 (1%)	73	79
1	BK	109/119 (92%)	109 (100%)	0	100	100
1	BL	119/119 (100%)	118 (99%)	1 (1%)	73	79
1	BM	119/119 (100%)	118 (99%)	1 (1%)	73	79
1	BN	109/119 (92%)	109 (100%)	0	100	100
1	BO	119/119 (100%)	118 (99%)	1 (1%)	73	79
1	BP	119/119 (100%)	118 (99%)	1 (1%)	73	79
1	BQ	109/119 (92%)	109 (100%)	0	100	100
1	BR	119/119 (100%)	118 (99%)	1 (1%)	73	79
1	BS	119/119 (100%)	118 (99%)	1 (1%)	73	79
1	BT	109/119 (92%)	109 (100%)	0	100	100
1	BU	119/119 (100%)	118 (99%)	1 (1%)	73	79
1	BV	119/119 (100%)	118 (99%)	1 (1%)	73	79
1	BW	109/119 (92%)	109 (100%)	0	100	100
1	BX	119/119 (100%)	118 (99%)	1 (1%)	73	79
1	BY	119/119 (100%)	118 (99%)	1 (1%)	73	79
1	BZ	109/119 (92%)	109 (100%)	0	100	100
1	CA	119/119 (100%)	118 (99%)	1 (1%)	73	79
1	CB	119/119 (100%)	118 (99%)	1 (1%)	73	79
1	CC	109/119 (92%)	109 (100%)	0	100	100
1	CD	119/119 (100%)	118 (99%)	1 (1%)	73	79
1	CE	119/119 (100%)	118 (99%)	1 (1%)	73	79

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	CF	109/119 (92%)	109 (100%)	0	100	100
1	CG	119/119 (100%)	118 (99%)	1 (1%)	73	79
1	CH	119/119 (100%)	118 (99%)	1 (1%)	73	79
All	All	6940/7140 (97%)	6900 (99%)	40 (1%)	78	81

All (40) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	AB	85	ASN
1	AC	85	ASN
1	AE	85	ASN
1	AF	85	ASN
1	AH	85	ASN
1	AI	85	ASN
1	AK	85	ASN
1	AL	85	ASN
1	AN	85	ASN
1	AO	85	ASN
1	AQ	85	ASN
1	AR	85	ASN
1	AT	85	ASN
1	AU	85	ASN
1	AW	85	ASN
1	AX	85	ASN
1	AZ	85	ASN
1	BA	85	ASN
1	BC	85	ASN
1	BD	85	ASN
1	BF	85	ASN
1	BG	85	ASN
1	BI	85	ASN
1	BJ	85	ASN
1	BL	85	ASN
1	BM	85	ASN
1	BO	85	ASN
1	BP	85	ASN
1	BR	85	ASN
1	BS	85	ASN
1	BU	85	ASN
1	BV	85	ASN
1	BX	85	ASN

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Mol	Chain	Res	Type
1	BY	85	ASN
1	CA	85	ASN
1	CB	85	ASN
1	CD	85	ASN
1	CE	85	ASN
1	CG	85	ASN
1	CH	85	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (44) such sidechains are listed below:

Mol	Chain	Res	Type
1	AB	45	GLN
1	AC	76	ASN
1	AE	45	GLN
1	AH	45	GLN
1	AK	45	GLN
1	AL	76	ASN
1	AL	101	GLN
1	AN	45	GLN
1	AQ	45	GLN
1	AR	76	ASN
1	AT	45	GLN
1	AU	76	ASN
1	AW	45	GLN
1	AX	101	GLN
1	AZ	45	GLN
1	BA	101	GLN
1	BC	45	GLN
1	BF	45	GLN
1	BF	139	GLN
1	BF	140	GLN
1	BG	76	ASN
1	BI	45	GLN
1	BJ	76	ASN
1	BL	45	GLN
1	BM	76	ASN
1	BM	101	GLN
1	BO	45	GLN
1	BO	139	GLN
1	BO	140	GLN
1	BP	76	ASN
1	BP	101	GLN

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Mol	Chain	Res	Type
1	BQ	101	GLN
1	BR	45	GLN
1	BS	76	ASN
1	BU	45	GLN
1	BV	76	ASN
1	BX	45	GLN
1	CA	45	GLN
1	CC	101	GLN
1	CD	45	GLN
1	CE	139	GLN
1	CE	140	GLN
1	CG	45	GLN
1	CH	101	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	AA	141/153 (92%)	0.32	3 (2%) 63 44	48, 70, 90, 111	0
1	AB	153/153 (100%)	0.23	5 (3%) 49 33	49, 70, 97, 108	0
1	AC	153/153 (100%)	0.30	8 (5%) 33 22	48, 72, 95, 110	0
1	AD	141/153 (92%)	0.24	4 (2%) 55 36	48, 70, 90, 111	0
1	AE	153/153 (100%)	0.36	8 (5%) 33 22	49, 70, 97, 108	0
1	AF	153/153 (100%)	0.50	9 (5%) 28 19	48, 72, 95, 110	0
1	AG	141/153 (92%)	0.31	5 (3%) 47 31	48, 70, 90, 111	0
1	AH	153/153 (100%)	0.39	9 (5%) 28 19	49, 70, 97, 108	0
1	AI	153/153 (100%)	0.55	6 (3%) 43 29	48, 72, 95, 110	0
1	AJ	141/153 (92%)	0.37	3 (2%) 63 44	48, 70, 90, 111	0
1	AK	153/153 (100%)	0.19	5 (3%) 49 33	49, 70, 97, 108	0
1	AL	153/153 (100%)	0.22	2 (1%) 75 56	48, 72, 95, 110	0
1	AM	141/153 (92%)	0.02	1 (0%) 84 70	48, 70, 90, 111	0
1	AN	153/153 (100%)	0.28	3 (1%) 65 46	49, 70, 97, 108	0
1	AO	153/153 (100%)	0.27	3 (1%) 65 46	48, 72, 95, 110	0
1	AP	141/153 (92%)	0.29	3 (2%) 63 44	48, 70, 90, 111	0
1	AQ	153/153 (100%)	0.43	7 (4%) 37 25	49, 70, 97, 108	0
1	AR	153/153 (100%)	0.21	4 (2%) 57 38	48, 72, 95, 110	0
1	AS	141/153 (92%)	0.37	5 (3%) 47 31	48, 70, 90, 111	0
1	AT	153/153 (100%)	0.20	4 (2%) 57 38	49, 70, 97, 108	0
1	AU	153/153 (100%)	0.18	3 (1%) 65 46	48, 72, 95, 110	0
1	AV	141/153 (92%)	0.37	5 (3%) 47 31	48, 70, 90, 111	0
1	AW	153/153 (100%)	0.20	3 (1%) 65 46	49, 70, 97, 108	0
1	AX	153/153 (100%)	0.45	6 (3%) 43 29	48, 72, 95, 110	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	AY	141/153 (92%)	0.62	5 (3%) 47 31	48, 70, 90, 111	0
1	AZ	153/153 (100%)	1.07	24 (15%) 5 4	49, 70, 97, 108	0
1	BA	153/153 (100%)	1.13	30 (19%) 3 3	48, 72, 95, 110	0
1	BB	141/153 (92%)	0.33	6 (4%) 40 25	48, 70, 90, 111	0
1	BC	153/153 (100%)	0.63	10 (6%) 25 17	49, 70, 97, 108	0
1	BD	153/153 (100%)	0.43	3 (1%) 65 46	48, 72, 95, 110	0
1	BE	141/153 (92%)	0.17	5 (3%) 47 31	48, 70, 90, 111	0
1	BF	153/153 (100%)	0.51	10 (6%) 25 17	49, 70, 97, 108	0
1	BG	153/153 (100%)	0.24	5 (3%) 49 33	48, 72, 95, 110	0
1	BH	141/153 (92%)	0.56	6 (4%) 40 25	48, 70, 90, 111	0
1	BI	153/153 (100%)	0.41	3 (1%) 65 46	49, 70, 97, 108	0
1	BJ	153/153 (100%)	0.55	9 (5%) 28 19	48, 72, 95, 110	0
1	BK	141/153 (92%)	0.20	2 (1%) 73 55	48, 70, 90, 111	0
1	BL	153/153 (100%)	0.14	6 (3%) 43 29	49, 70, 97, 108	0
1	BM	153/153 (100%)	0.33	7 (4%) 37 25	48, 72, 95, 110	0
1	BN	141/153 (92%)	0.19	6 (4%) 40 25	48, 70, 90, 111	0
1	BO	153/153 (100%)	0.08	2 (1%) 75 56	49, 70, 97, 108	0
1	BP	153/153 (100%)	0.13	1 (0%) 84 70	48, 72, 95, 110	0
1	BQ	141/153 (92%)	0.25	6 (4%) 40 25	48, 70, 90, 111	0
1	BR	153/153 (100%)	0.22	3 (1%) 65 46	49, 70, 97, 108	0
1	BS	153/153 (100%)	0.26	7 (4%) 37 25	48, 72, 95, 110	0
1	BT	141/153 (92%)	0.10	3 (2%) 63 44	48, 70, 90, 111	0
1	BU	153/153 (100%)	0.19	2 (1%) 75 56	49, 70, 97, 108	0
1	BV	153/153 (100%)	0.20	4 (2%) 57 38	48, 72, 95, 110	0
1	BW	141/153 (92%)	0.19	2 (1%) 73 55	48, 70, 90, 111	0
1	BX	153/153 (100%)	0.40	7 (4%) 37 25	49, 70, 97, 108	0
1	BY	153/153 (100%)	0.19	2 (1%) 75 56	48, 72, 95, 110	0
1	BZ	141/153 (92%)	0.42	5 (3%) 47 31	48, 70, 90, 111	0
1	CA	153/153 (100%)	0.38	7 (4%) 37 25	49, 70, 97, 108	0
1	CB	153/153 (100%)	1.04	20 (13%) 7 6	48, 72, 95, 110	0
1	CC	141/153 (92%)	0.70	13 (9%) 14 11	48, 70, 90, 111	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	CD	153/153 (100%)	0.42	7 (4%) 37 25	49, 70, 97, 108	0
1	CE	153/153 (100%)	0.42	5 (3%) 49 33	48, 72, 95, 110	0
1	CF	141/153 (92%)	0.21	4 (2%) 55 36	48, 70, 90, 111	0
1	CG	153/153 (100%)	0.13	3 (1%) 65 46	49, 70, 97, 108	0
1	CH	153/153 (100%)	0.38	5 (3%) 49 33	48, 72, 95, 110	0
All	All	8940/9180 (97%)	0.35	359 (4%) 42 28	48, 71, 97, 111	0

All (359) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	BF	76	ASN	5.7
1	AC	76	ASN	5.5
1	BA	6	THR	5.3
1	BA	22	THR	5.3
1	BF	77	GLY	4.8
1	AI	150	SER	4.8
1	AE	76	ASN	4.6
1	BF	75	SER	4.6
1	CB	75	SER	4.6
1	BA	37	ALA	4.4
1	AN	80	THR	4.3
1	AQ	80	THR	4.3
1	AC	75	SER	4.3
1	CD	102	SER	4.3
1	BA	39	THR	4.3
1	BJ	6	THR	4.2
1	AH	83	GLY	4.2
1	BX	102	SER	4.2
1	CH	66	THR	4.2
1	AG	66	THR	4.1
1	BC	151	GLY	4.0
1	BG	66	THR	4.0
1	AZ	138	SER	3.9
1	CA	6	THR	3.8
1	CB	6	THR	3.8
1	BJ	77	GLY	3.8
1	BF	80	THR	3.8
1	AN	6	THR	3.8
1	AZ	6	THR	3.7
1	AQ	75	SER	3.7

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Mol	Chain	Res	Type	RSRZ
1	AH	80	THR	3.7
1	AF	100	ASN	3.7
1	BN	66	THR	3.6
1	BH	6	THR	3.6
1	BW	84	ARG	3.5
1	BA	2	TYR	3.5
1	BE	6	THR	3.5
1	CB	80	THR	3.5
1	AS	99	VAL	3.5
1	AM	6	THR	3.5
1	AZ	152	ILE	3.5
1	AZ	66	THR	3.4
1	BL	66	THR	3.4
1	BF	104	GLN	3.4
1	CD	6	THR	3.4
1	AX	54	SER	3.4
1	AA	99	VAL	3.4
1	CE	76	ASN	3.4
1	CB	77	GLY	3.4
1	AZ	153	LEU	3.3
1	CC	99	VAL	3.3
1	AF	6	THR	3.3
1	BA	36	HIS	3.3
1	BF	102	SER	3.3
1	CC	150	SER	3.3
1	AU	6	THR	3.2
1	CC	6	THR	3.2
1	BA	27	THR	3.2
1	BH	100	ASN	3.2
1	BI	6	THR	3.2
1	AQ	76	ASN	3.2
1	BB	65	LYS	3.2
1	CB	76	ASN	3.2
1	AK	102	SER	3.2
1	CB	121	TYR	3.2
1	AZ	102	SER	3.2
1	AO	6	THR	3.2
1	BA	9	THR	3.2
1	AZ	151	GLY	3.1
1	AI	99	VAL	3.1
1	AC	83	GLY	3.1
1	BS	80	THR	3.1

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Mol	Chain	Res	Type	RSRZ
1	AC	80	THR	3.1
1	AZ	18	SER	3.1
1	AS	6	THR	3.0
1	AP	150	SER	3.0
1	AB	152	ILE	3.0
1	CC	153	LEU	3.0
1	BG	81	ASN	3.0
1	AP	6	THR	3.0
1	CA	69	THR	3.0
1	CB	31	ALA	3.0
1	BC	6	THR	3.0
1	BG	6	THR	3.0
1	AI	54	SER	2.9
1	AW	150	SER	2.9
1	AE	72	VAL	2.9
1	BA	80	THR	2.9
1	BD	80	THR	2.9
1	AZ	131	SER	2.9
1	BC	153	LEU	2.9
1	BL	6	THR	2.9
1	BV	6	THR	2.9
1	AH	6	THR	2.9
1	AJ	6	THR	2.9
1	BC	14	THR	2.9
1	CE	6	THR	2.9
1	BA	7	PRO	2.8
1	CB	7	PRO	2.8
1	CG	80	THR	2.8
1	BQ	99	VAL	2.8
1	AZ	75	SER	2.8
1	AK	6	THR	2.8
1	BB	6	THR	2.8
1	BX	6	THR	2.8
1	CD	69	THR	2.8
1	AF	99	VAL	2.8
1	BB	150	SER	2.8
1	BC	150	SER	2.8
1	BI	14	THR	2.8
1	AI	106	MET	2.8
1	AZ	83	GLY	2.8
1	BM	29	PRO	2.8
1	BU	102	SER	2.8

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Mol	Chain	Res	Type	RSRZ
1	AQ	6	THR	2.8
1	AT	6	THR	2.8
1	BN	6	THR	2.8
1	CB	17	THR	2.8
1	BB	121	TYR	2.8
1	BA	1	ALA	2.8
1	AB	6	THR	2.8
1	CH	6	THR	2.8
1	CC	151	GLY	2.7
1	BL	100	ASN	2.7
1	AV	99	VAL	2.7
1	AZ	13	GLN	2.7
1	AC	54	SER	2.7
1	AV	6	THR	2.7
1	AZ	14	THR	2.7
1	BA	30	THR	2.7
1	BS	75	SER	2.7
1	BJ	27	THR	2.7
1	BM	1	ALA	2.7
1	AC	77	GLY	2.7
1	BR	6	THR	2.7
1	CF	66	THR	2.7
1	BQ	100	ASN	2.7
1	AA	69	THR	2.6
1	AE	6	THR	2.6
1	AK	39	THR	2.6
1	BM	6	THR	2.6
1	CD	41	THR	2.6
1	AE	78	VAL	2.6
1	CB	113	SER	2.6
1	AF	83	GLY	2.6
1	BA	66	THR	2.6
1	BU	6	THR	2.6
1	AH	102	SER	2.6
1	CH	7	PRO	2.6
1	AW	99	VAL	2.6
1	AY	6	THR	2.6
1	BS	6	THR	2.6
1	AB	150	SER	2.6
1	BS	76	ASN	2.6
1	CH	27	THR	2.6
1	CC	152	ILE	2.6

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Mol	Chain	Res	Type	RSRZ
1	BA	3	SER	2.6
1	BZ	100	ASN	2.6
1	BX	153	LEU	2.6
1	BF	78	VAL	2.6
1	BJ	78	VAL	2.6
1	CB	1	ALA	2.6
1	BI	39	THR	2.6
1	BK	6	THR	2.6
1	BO	6	THR	2.6
1	CF	6	THR	2.6
1	BA	21	TYR	2.5
1	CB	138	SER	2.5
1	AH	101	GLN	2.5
1	AY	65	LYS	2.5
1	BZ	6	THR	2.5
1	AS	150	SER	2.5
1	AX	113	SER	2.5
1	AZ	47	GLY	2.5
1	BE	84	ARG	2.5
1	AZ	44	THR	2.5
1	BG	80	THR	2.5
1	CE	39	THR	2.5
1	CC	65	LYS	2.5
1	BM	27	THR	2.5
1	BN	65	LYS	2.5
1	AQ	77	GLY	2.5
1	AH	75	SER	2.5
1	CE	113	SER	2.5
1	CG	102	SER	2.5
1	BQ	6	THR	2.5
1	BX	44	THR	2.5
1	CB	84	ARG	2.5
1	AK	101	GLN	2.5
1	AL	65	LYS	2.4
1	AS	65	LYS	2.4
1	BQ	65	LYS	2.4
1	BC	44	THR	2.4
1	BF	153	LEU	2.4
1	BY	107	LEU	2.4
1	CA	80	THR	2.4
1	CC	66	THR	2.4
1	AE	98	ALA	2.4

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Mol	Chain	Res	Type	RSRZ
1	CC	67	MET	2.4
1	CC	18	SER	2.4
1	AA	6	THR	2.4
1	BA	26	ASP	2.4
1	BO	80	THR	2.4
1	AG	135	GLY	2.4
1	AZ	65	LYS	2.4
1	BF	6	THR	2.4
1	BJ	74	ASN	2.4
1	CA	70	VAL	2.4
1	BA	28	ALA	2.4
1	CB	28	ALA	2.4
1	AR	99	VAL	2.4
1	AZ	46	THR	2.4
1	BN	86	THR	2.4
1	CF	99	VAL	2.4
1	BY	32	LEU	2.4
1	BV	99	VAL	2.4
1	AH	71	GLY	2.3
1	AR	6	THR	2.3
1	BT	66	THR	2.3
1	CG	6	THR	2.3
1	BA	76	ASN	2.3
1	CB	139	GLN	2.3
1	AB	99	VAL	2.3
1	AD	66	THR	2.3
1	AF	84	ARG	2.3
1	AI	6	THR	2.3
1	AK	80	THR	2.3
1	AP	66	THR	2.3
1	BC	80	THR	2.3
1	BQ	66	THR	2.3
1	BW	6	THR	2.3
1	AH	104	GLN	2.3
1	AQ	102	SER	2.3
1	AZ	27	THR	2.3
1	BA	52	SER	2.3
1	BC	15	GLY	2.3
1	BD	6	THR	2.3
1	BP	39	THR	2.3
1	CA	150	SER	2.3
1	CE	69	THR	2.3

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Mol	Chain	Res	Type	RSRZ
1	CB	87	TYR	2.3
1	BL	101	GLN	2.3
1	CD	101	GLN	2.3
1	AD	65	LYS	2.3
1	AJ	83	GLY	2.3
1	AH	69	THR	2.3
1	BG	27	THR	2.3
1	BJ	69	THR	2.3
1	BV	66	THR	2.3
1	AR	100	ASN	2.3
1	AV	84	ARG	2.3
1	AD	6	THR	2.3
1	AU	39	THR	2.3
1	BJ	9	THR	2.3
1	BM	66	THR	2.3
1	BT	9	THR	2.3
1	BE	109	ARG	2.3
1	AI	95	VAL	2.3
1	AE	83	GLY	2.2
1	AV	39	THR	2.2
1	AX	66	THR	2.2
1	BT	6	THR	2.2
1	AE	102	SER	2.2
1	BF	18	SER	2.2
1	AT	100	ASN	2.2
1	BK	70	VAL	2.2
1	AQ	83	GLY	2.2
1	BA	31	ALA	2.2
1	BN	32	LEU	2.2
1	AF	22	THR	2.2
1	CD	39	THR	2.2
1	CC	100	ASN	2.2
1	AX	71	GLY	2.2
1	BA	94	GLY	2.2
1	CF	65	LYS	2.2
1	CH	65	LYS	2.2
1	AZ	69	THR	2.2
1	BA	14	THR	2.2
1	BZ	39	THR	2.2
1	AE	75	SER	2.2
1	AY	116	ALA	2.2
1	BS	29	PRO	2.2

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Mol	Chain	Res	Type	RSRZ
1	AJ	65	LYS	2.2
1	AG	6	THR	2.2
1	AL	6	THR	2.2
1	AW	6	THR	2.2
1	AN	102	SER	2.2
1	AT	113	SER	2.2
1	BA	5	SER	2.2
1	BZ	101	GLN	2.2
1	AZ	81	ASN	2.2
1	CB	128	ALA	2.2
1	BH	7	PRO	2.2
1	CB	115	PRO	2.2
1	CD	65	LYS	2.2
1	AU	80	THR	2.1
1	AX	6	THR	2.1
1	AZ	150	SER	2.1
1	BE	65	LYS	2.1
1	BL	65	LYS	2.1
1	BR	102	SER	2.1
1	BS	81	ASN	2.1
1	BC	99	VAL	2.1
1	AZ	101	GLN	2.1
1	BA	12	ALA	2.1
1	CC	98	ALA	2.1
1	BD	54	SER	2.1
1	BA	99	VAL	2.1
1	BN	99	VAL	2.1
1	AZ	144	ILE	2.1
1	BM	65	LYS	2.1
1	AF	1	ALA	2.1
1	BR	77	GLY	2.1
1	BM	54	SER	2.1
1	BX	138	SER	2.1
1	AZ	36	HIS	2.1
1	AC	27	THR	2.1
1	BZ	69	THR	2.1
1	CB	9	THR	2.1
1	AY	67	MET	2.1
1	BE	83	GLY	2.1
1	AF	54	SER	2.1
1	AT	102	SER	2.1
1	AV	70	VAL	2.1

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Mol	Chain	Res	Type	RSRZ
1	AG	96	ILE	2.1
1	AF	39	THR	2.1
1	AX	60	THR	2.1
1	BJ	39	THR	2.1
1	BS	66	THR	2.1
1	CA	86	THR	2.1
1	BX	11	ALA	2.1
1	AD	99	VAL	2.0
1	BA	25	SER	2.0
1	BH	150	SER	2.0
1	AC	39	THR	2.0
1	AR	60	THR	2.0
1	BA	24	THR	2.0
1	BA	60	THR	2.0
1	BB	69	THR	2.0
1	BX	39	THR	2.0
1	BA	16	PHE	2.0
1	AB	65	LYS	2.0
1	BV	65	LYS	2.0
1	CA	65	LYS	2.0
1	AG	150	SER	2.0
1	BQ	150	SER	2.0
1	AO	66	THR	2.0
1	AS	14	THR	2.0
1	BB	66	THR	2.0
1	BC	22	THR	2.0
1	CB	30	THR	2.0
1	CC	9	THR	2.0
1	BH	43	GLY	2.0
1	AO	7	PRO	2.0
1	BA	65	LYS	2.0
1	AY	99	VAL	2.0
1	BH	99	VAL	2.0
1	BJ	99	VAL	2.0
1	BL	99	VAL	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 [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.