Full wwPDB X-ray Structure Validation Report ⓘ

Aug 29, 2020 – 11:33 AM BST

PDB ID	:	6YFA
Title	:	Virus-like particle of bacteriophage AVE015
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 following versions of software and data (see references ①) were used in the production of this report:

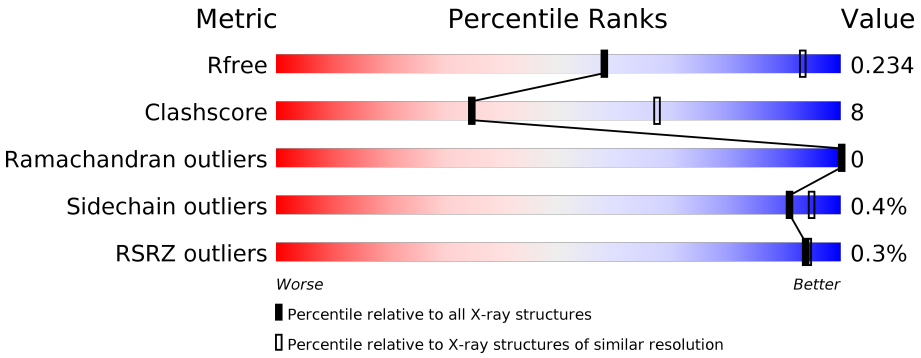
MolProbity	:	4.02b-467
Xtriage (Phenix)	:	1.13
EDS	:	2.13
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.13

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 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}	130704	1149 (3.34-3.26)
Clashscore	141614	1205 (3.34-3.26)
Ramachandran outliers	138981	1183 (3.34-3.26)
Sidechain outliers	138945	1182 (3.34-3.26)
RSRZ outliers	127900	1115 (3.34-3.26)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5% The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	AA	167	67% 32%
1	AB	167	83% 16%
1	AC	167	78% 22%
1	AD	167	77% 23%
1	AE	167	85% 14%
1	AF	167	83% 17%

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Mol	Chain	Length	Quality of chain
1	AG	167	2% 72% 27%
1	AH	167	82% 17%
1	AI	167	75% 25%
1	AJ	167	83% 17%
1	AK	167	% 83% 16%
1	AL	167	% 82% 18%
1	AM	167	76% 23%
1	AN	167	84% 15%
1	AO	167	81% 19%
1	AP	167	% 74% 25%
1	AQ	167	81% 18%
1	AR	167	87% 13%
1	AS	167	75% 25%
1	AT	167	79% 20%
1	AU	167	80% 20%
1	AV	167	75% 24%
1	AW	167	82% 17%
1	AX	167	80% 20%
1	AY	167	75% 25%
1	AZ	167	83% 17%
1	BA	167	80% 20%
1	BB	167	% 72% 27%
1	BC	167	80% 19%
1	BD	167	87% 13%
1	BE	167	73% 26%

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Mol	Chain	Length	Quality of chain
1	BF	167	89% 11%
1	BG	167	83% 17%
1	BH	167	2% 72% 27%
1	BI	167	83% 16%
1	BJ	167	86% 14%
1	BK	167	% 83% 17%
1	BL	167	78% 22%
1	BM	167	2% 77% 23%
1	BN	167	71% 28%
1	BO	167	90% 9%
1	BP	167	82% 18%
1	BQ	167	75% 25%
1	BR	167	81% 19%
1	BS	167	81% 19%
1	BT	167	% 74% 26%
1	BU	167	79% 20%
1	BV	167	80% 20%
1	BW	167	72% 28%
1	BX	167	4% 80% 20%
1	BY	167	% 78% 22%
1	BZ	167	72% 28%
1	CA	167	86% 13%
1	CB	167	86% 14%
1	CC	167	73% 26%
1	CD	167	75% 24%

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Mol	Chain	Length	Quality of chain
1	CE	167	
1	CF	167	
1	CG	167	
1	CH	167	

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 78980 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	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	AB	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	AC	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	AD	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	AE	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	AF	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	AG	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	AH	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	AI	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	AJ	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	AK	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	AL	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	AM	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	AN	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	AO	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	AP	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	AQ	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	AR	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	AS	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	AT	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	AU	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	AV	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	AW	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	AX	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	AY	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	AZ	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	BA	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	BB	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	BC	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	BD	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	BE	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	BF	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	BG	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	BH	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	BI	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	BJ	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	BK	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	BL	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	BM	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	BN	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	BO	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	BP	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	BQ	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	BR	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	BS	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	BT	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	BU	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	BV	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	BW	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	BX	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	BY	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	BZ	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	CA	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	CB	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	CC	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	CD	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	CE	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	CF	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	CG	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			
1	CH	167	Total	C	N	O	S	0	0	0
			1316	825	222	267	2			

- Molecule 2 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	AP	1	Total	Ca	0	0
			1	1		
2	AG	1	Total	Ca	0	0
			1	1		
2	AJ	1	Total	Ca	0	0
			1	1		
2	BH	1	Total	Ca	0	0
			1	1		
2	AD	1	Total	Ca	0	0
			1	1		
2	BN	1	Total	Ca	0	0
			1	1		
2	BB	1	Total	Ca	0	0
			1	1		
2	BZ	1	Total	Ca	0	0
			1	1		
2	CC	1	Total	Ca	0	0
			1	1		
2	AV	1	Total	Ca	0	0
			1	1		
2	BE	1	Total	Ca	0	0
			1	1		
2	BT	1	Total	Ca	0	0
			1	1		
2	AA	1	Total	Ca	0	0
			1	1		
2	BQ	1	Total	Ca	0	0
			1	1		
2	BK	1	Total	Ca	0	0
			1	1		
2	BW	1	Total	Ca	0	0
			1	1		
2	AY	1	Total	Ca	0	0
			1	1		

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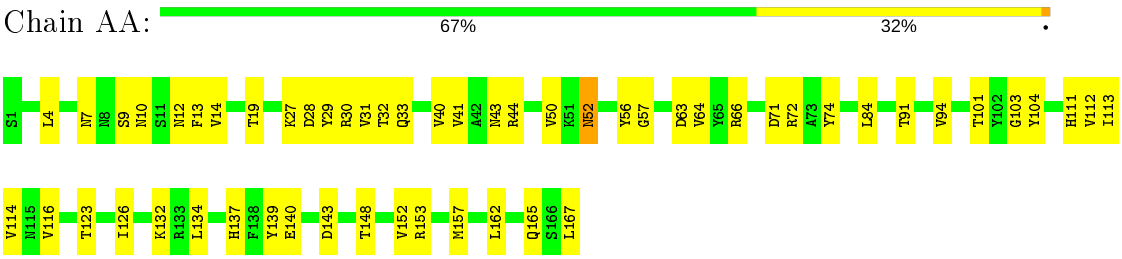
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	CF	1	Total Ca 1 1	0	0
2	AS	1	Total Ca 1 1	0	0
2	AM	1	Total Ca 1 1	0	0

3 Residue-property plots (i)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density (RSRZ > 2). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

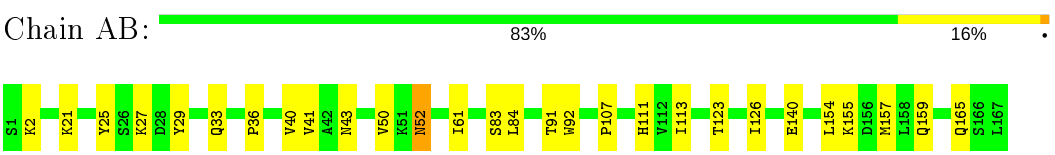
- Molecule 1: coat protein

Chain AA:



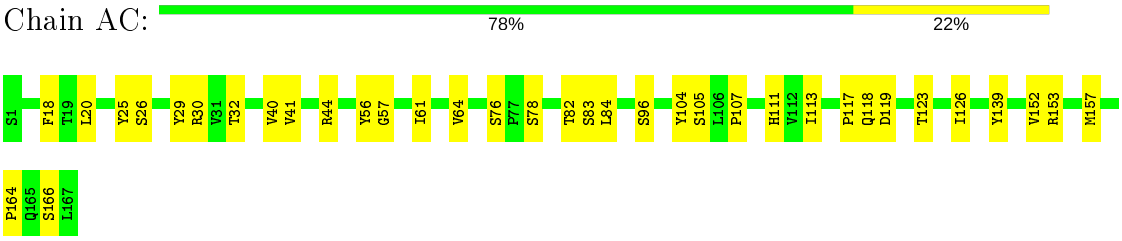
- Molecule 1: coat protein

Chain AB:



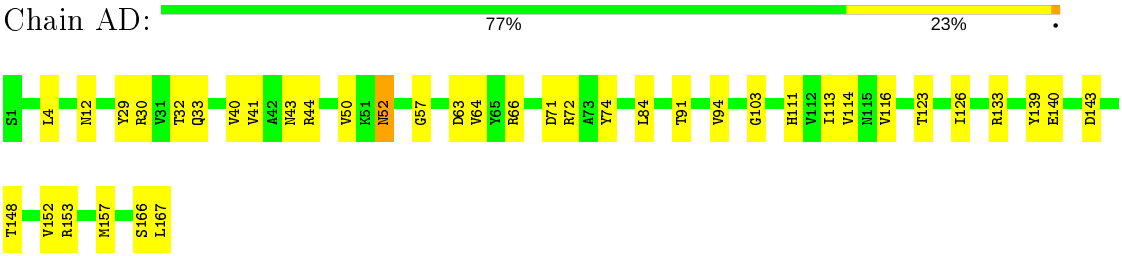
- Molecule 1: coat protein

Chain AC:



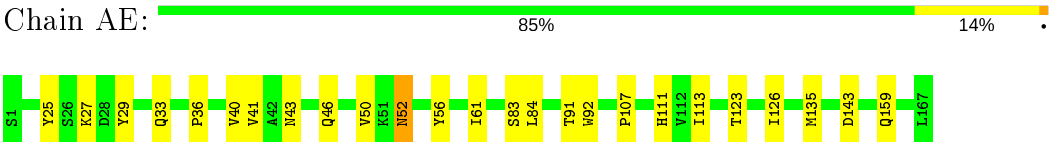
- Molecule 1: coat protein

Chain AD:



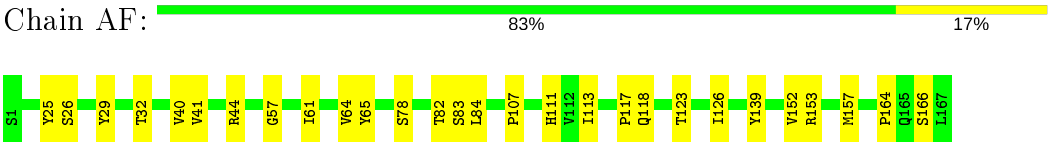
- Molecule 1: coat protein

Chain AE:



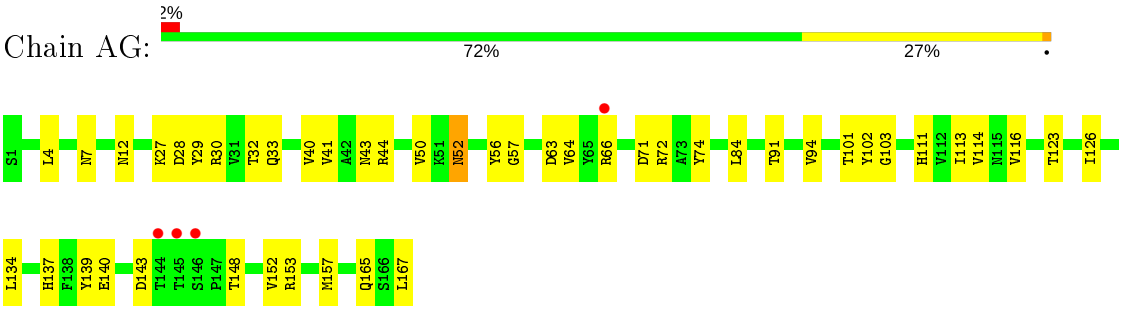
• Molecule 1: coat protein

Chain AF:



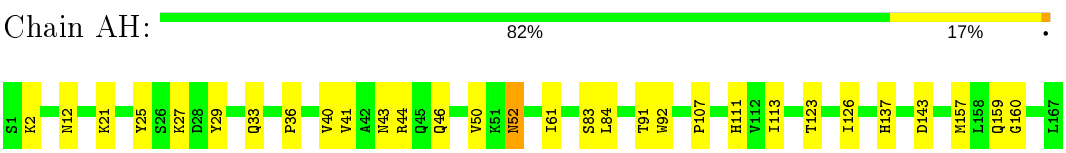
• Molecule 1: coat protein

Chain AG:



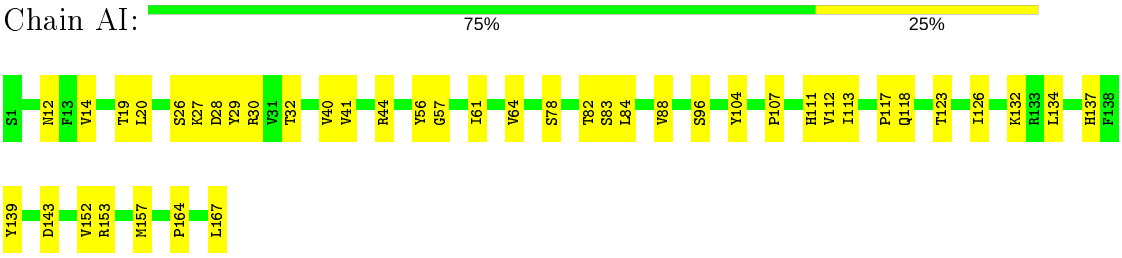
• Molecule 1: coat protein

Chain AH:



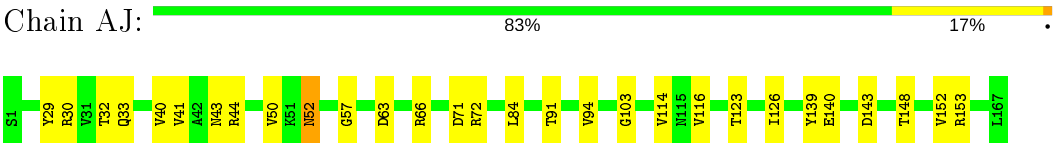
• Molecule 1: coat protein

Chain AI:



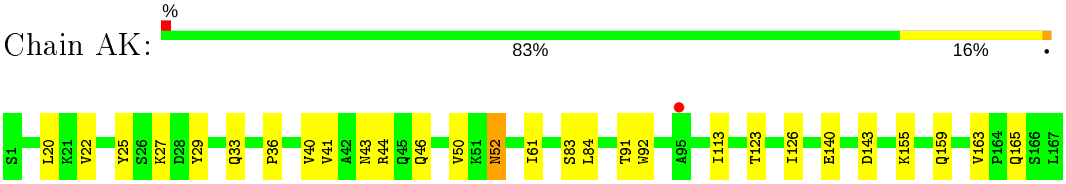
• Molecule 1: coat protein

Chain AJ:



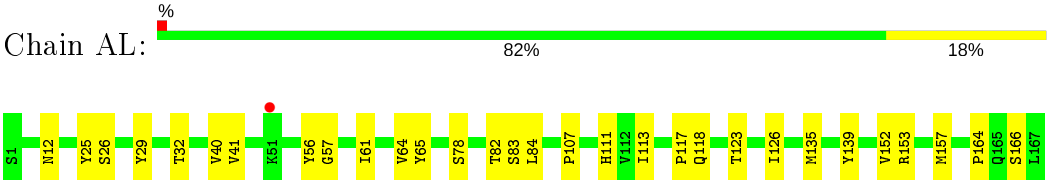
• Molecule 1: coat protein

Chain AK:



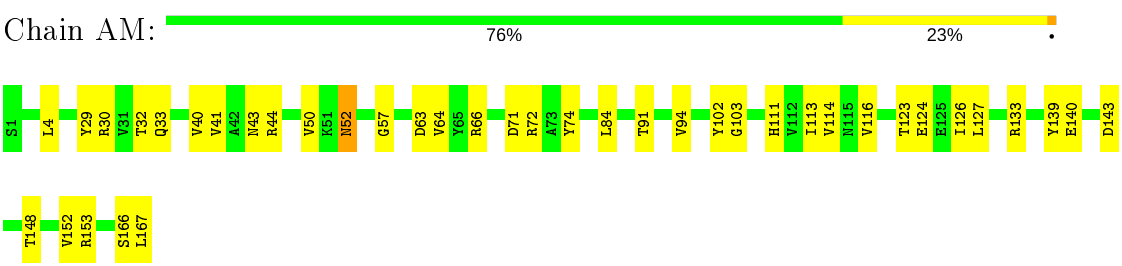
• Molecule 1: coat protein

Chain AL:



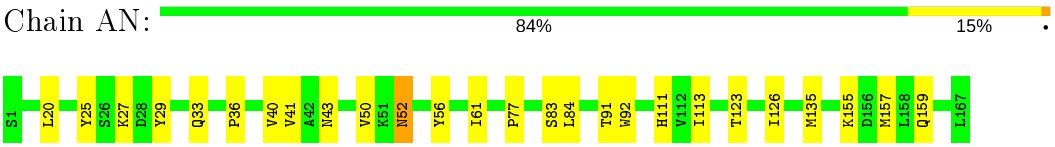
• Molecule 1: coat protein

Chain AM:



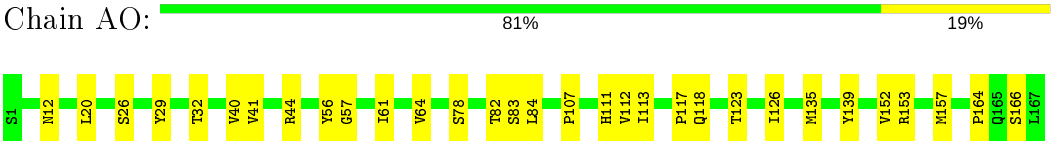
• Molecule 1: coat protein

Chain AN:



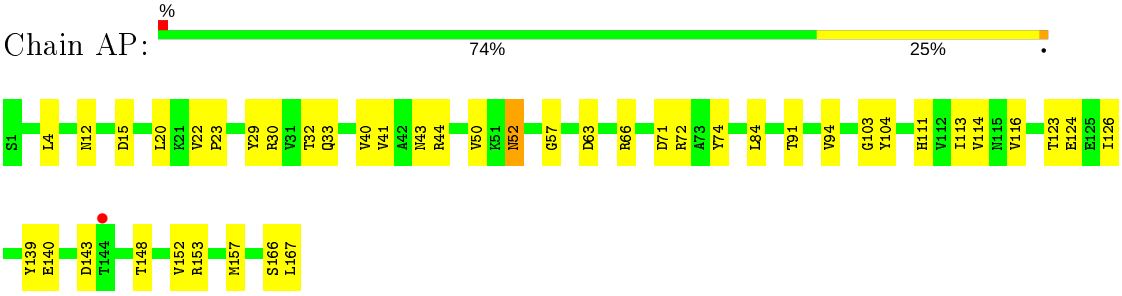
• Molecule 1: coat protein

Chain AO:



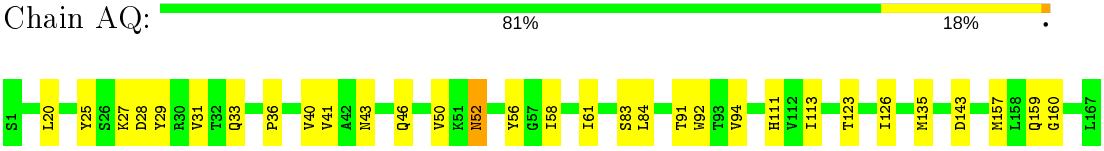
• Molecule 1: coat protein

Chain AP:



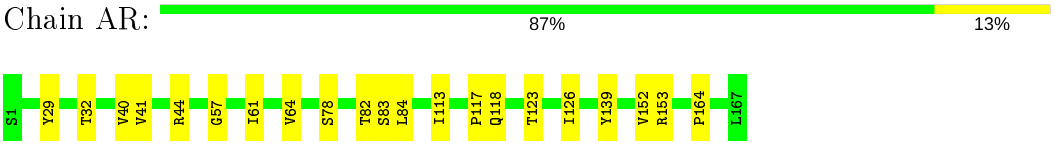
• Molecule 1: coat protein

Chain AQ:



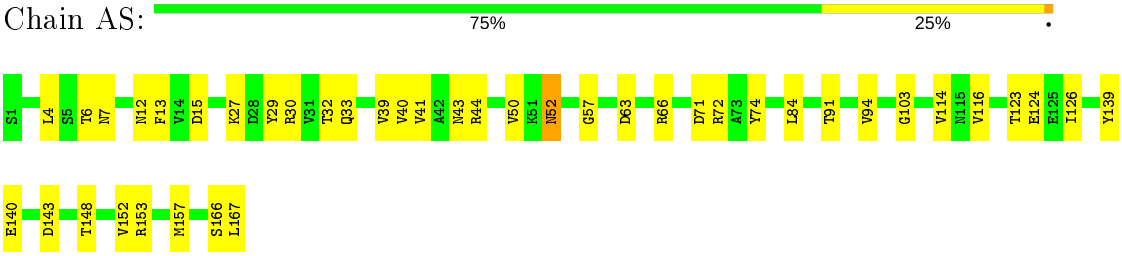
- Molecule 1: coat protein

Chain AR:



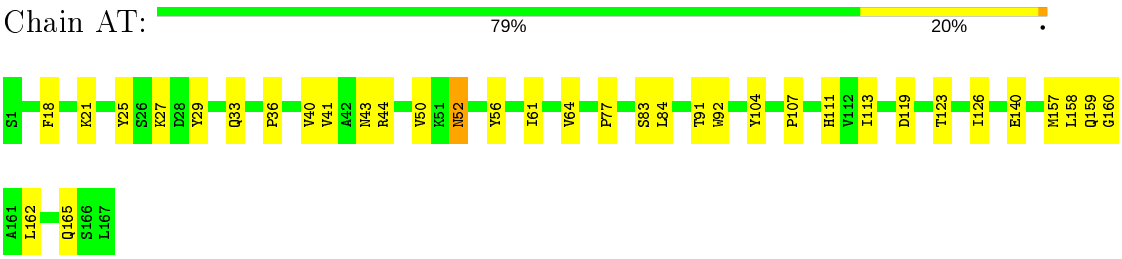
- Molecule 1: coat protein

Chain AS:



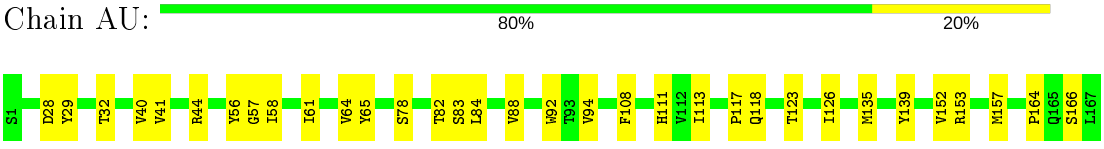
- Molecule 1: coat protein

Chain AT:



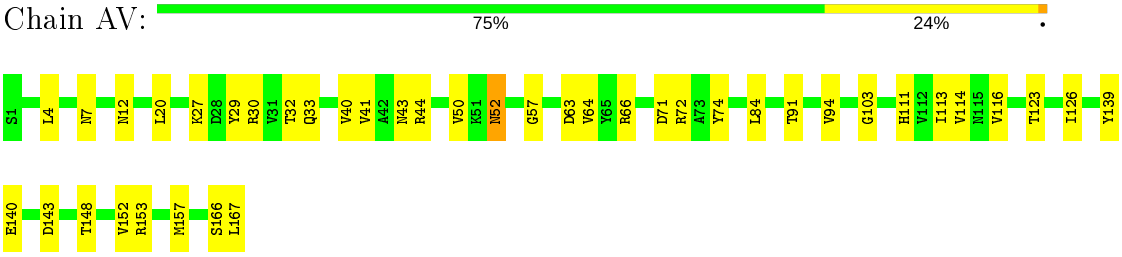
- Molecule 1: coat protein

Chain AU:



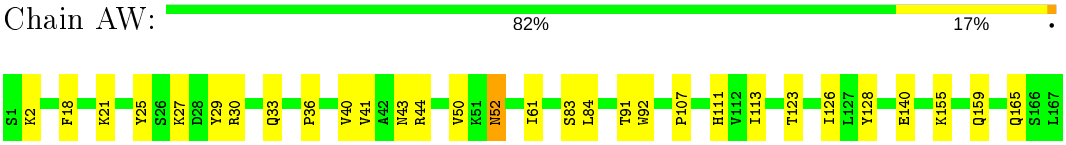
- Molecule 1: coat protein

Chain AV:



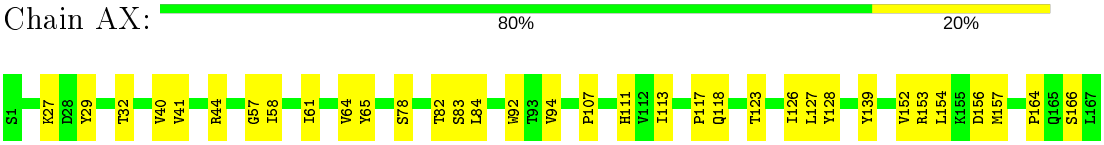
• Molecule 1: coat protein

Chain AW:



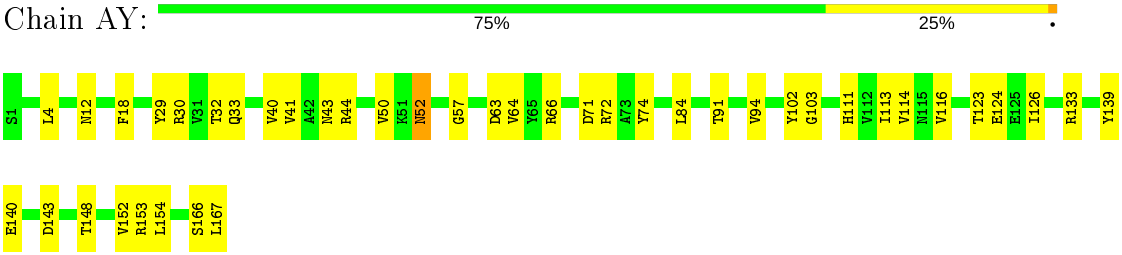
• Molecule 1: coat protein

Chain AX:



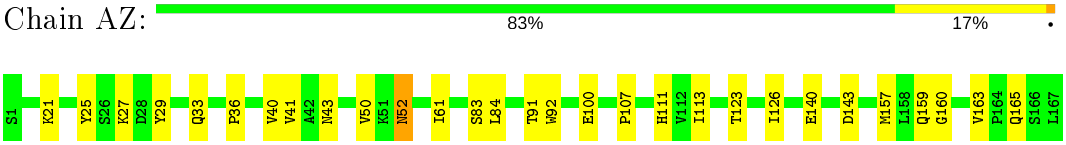
• Molecule 1: coat protein

Chain AY:



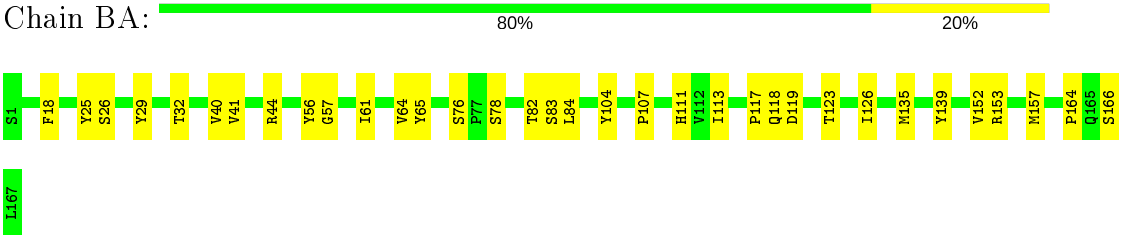
• Molecule 1: coat protein

Chain AZ:



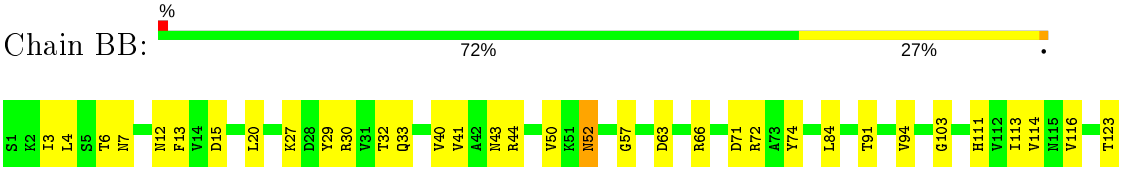
• Molecule 1: coat protein

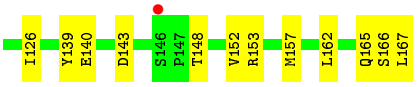
Chain BA:



• Molecule 1: coat protein

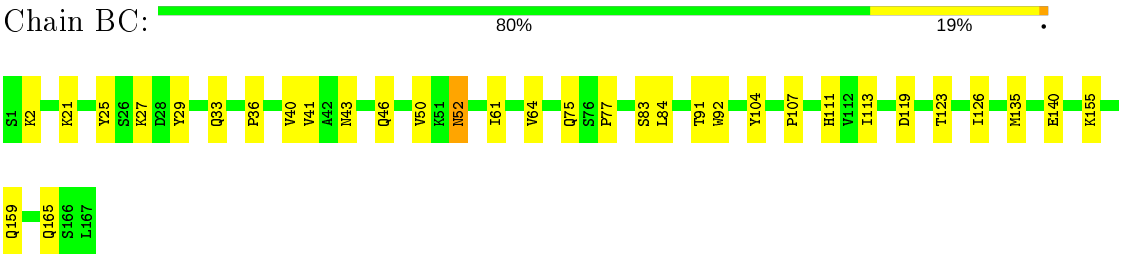
Chain BB:





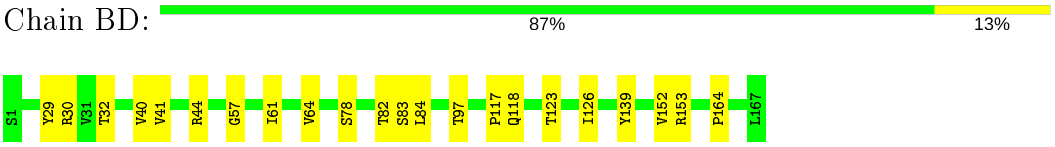
- Molecule 1: coat protein

Chain BC:



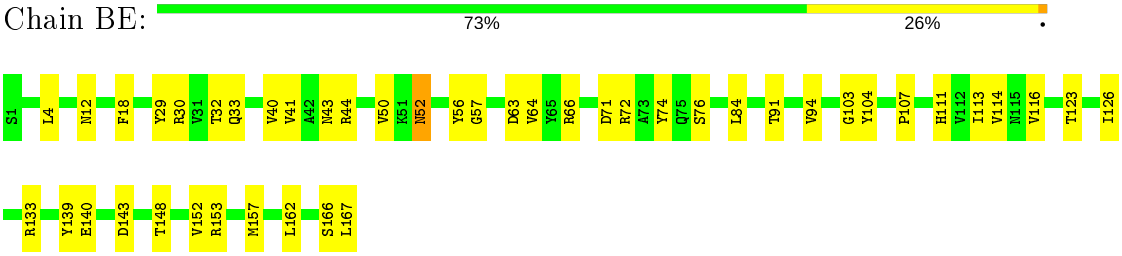
- Molecule 1: coat protein

Chain BD:



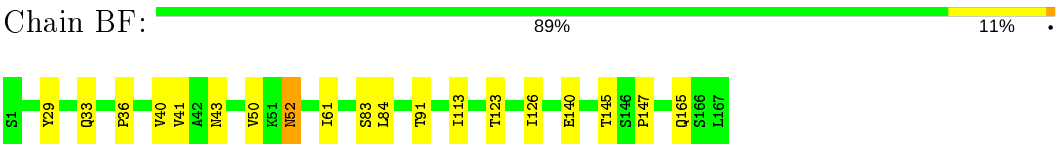
- Molecule 1: coat protein

Chain BE:



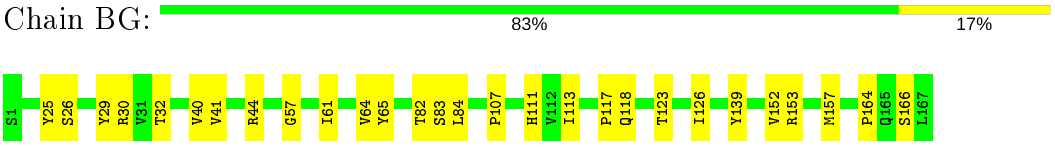
- Molecule 1: coat protein

Chain BF:



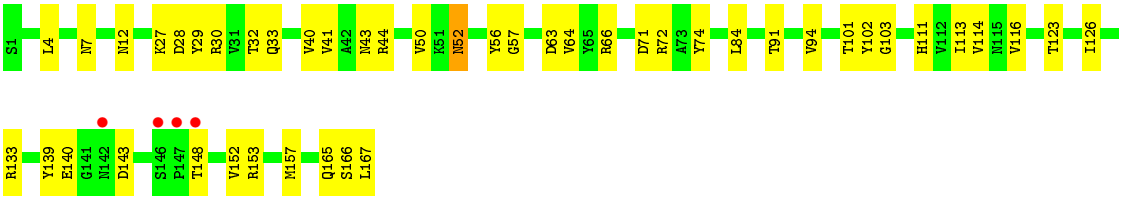
- Molecule 1: coat protein

Chain BG:



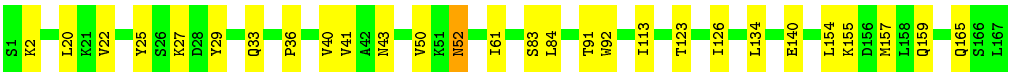
- Molecule 1: coat protein

Chain BH:



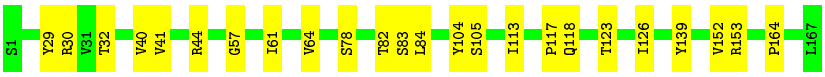
• Molecule 1: coat protein

Chain BI:



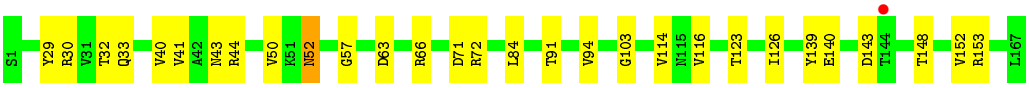
• Molecule 1: coat protein

Chain BJ:



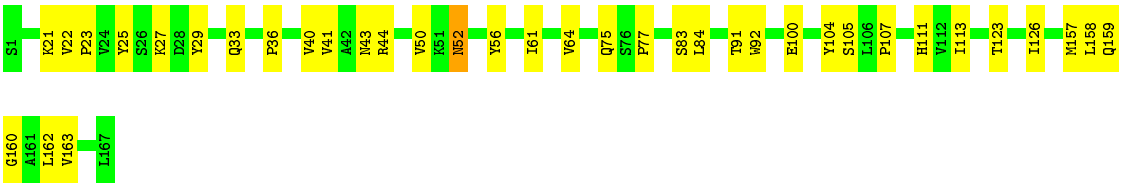
• Molecule 1: coat protein

Chain BK:



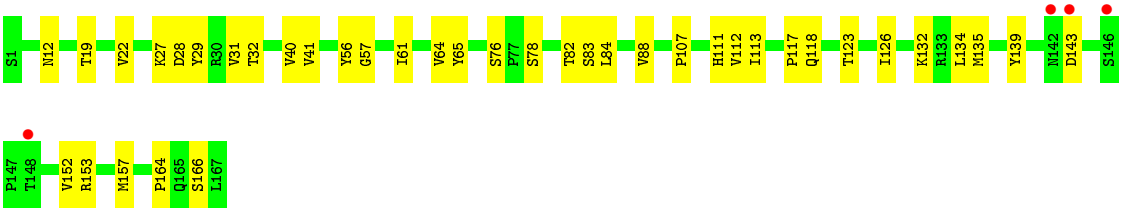
• Molecule 1: coat protein

Chain BL:



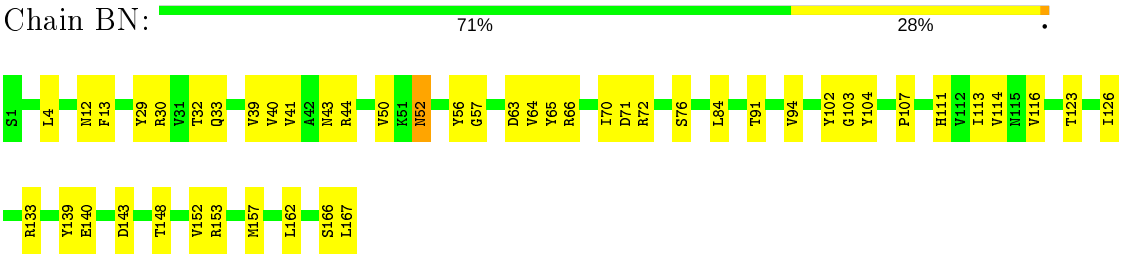
• Molecule 1: coat protein

Chain BM:



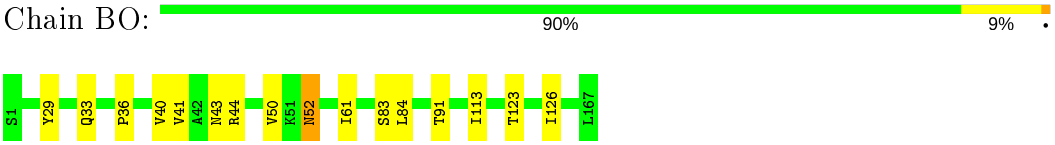
• Molecule 1: coat protein

Chain BN:



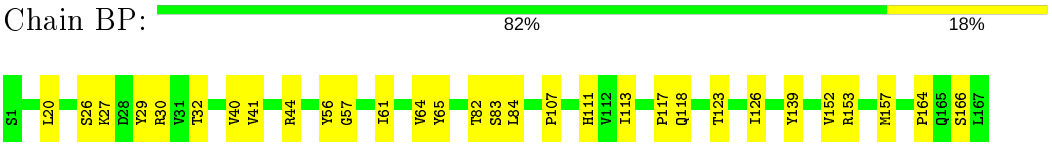
• Molecule 1: coat protein

Chain BO:



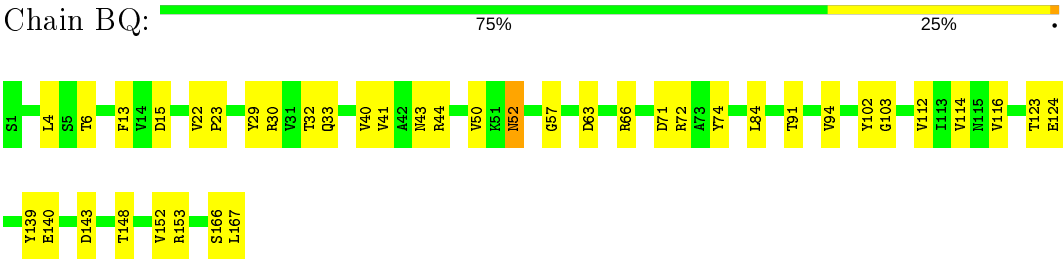
• Molecule 1: coat protein

Chain BP:



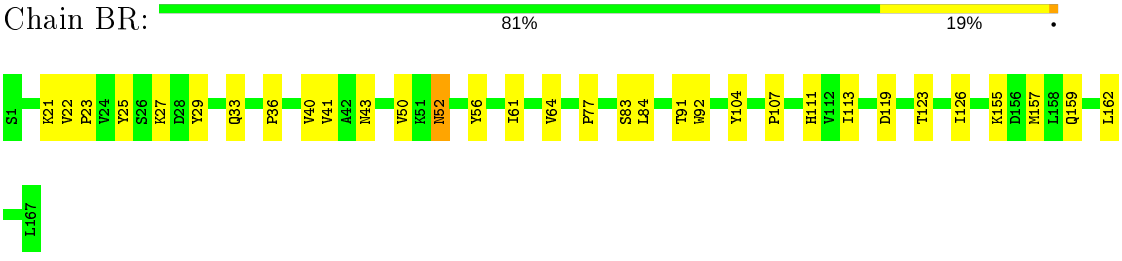
• Molecule 1: coat protein

Chain BQ:



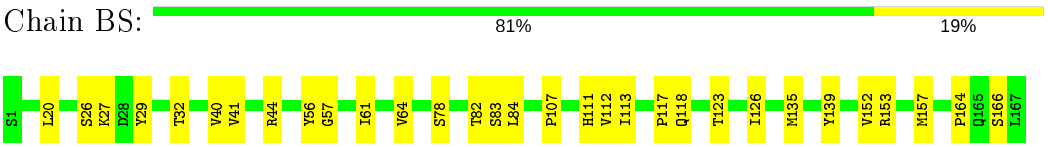
• Molecule 1: coat protein

Chain BR:



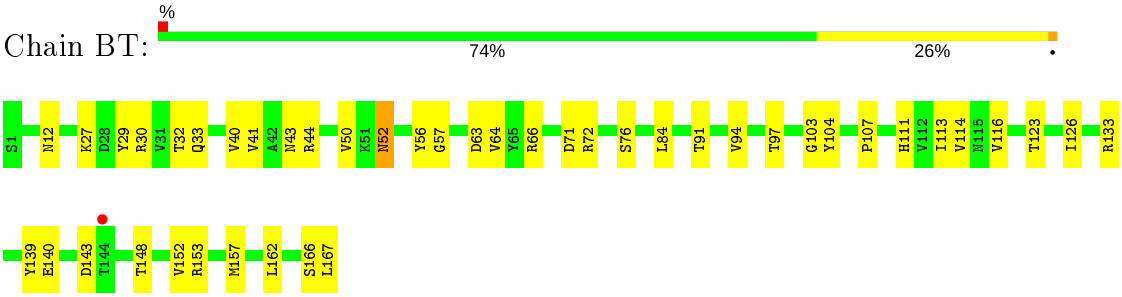
• Molecule 1: coat protein

Chain BS:



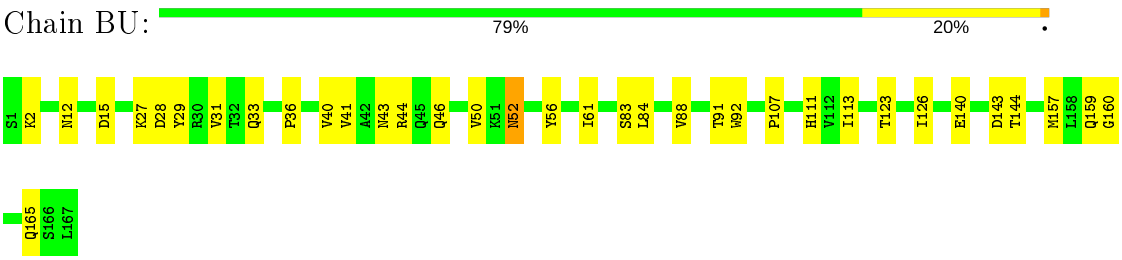
• Molecule 1: coat protein

Chain BT:



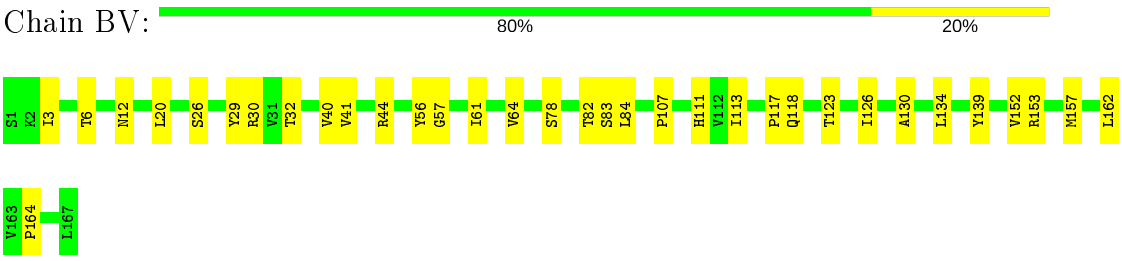
• Molecule 1: coat protein

Chain BU:



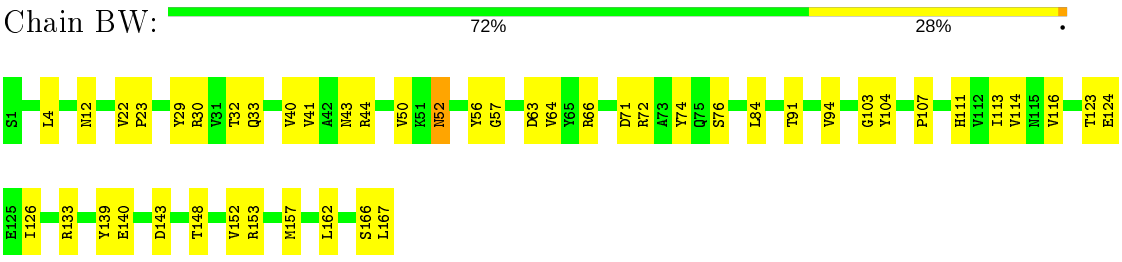
• Molecule 1: coat protein

Chain BV:



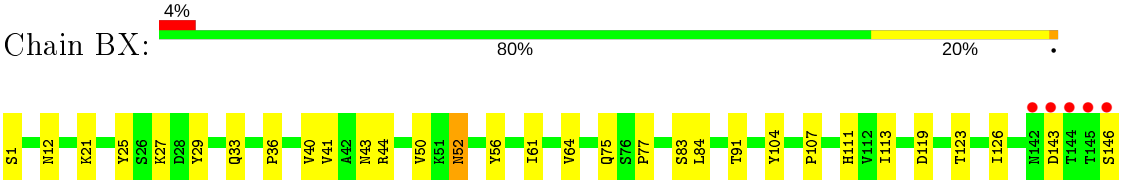
• Molecule 1: coat protein

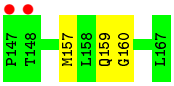
Chain BW:



• Molecule 1: coat protein

Chain BX:



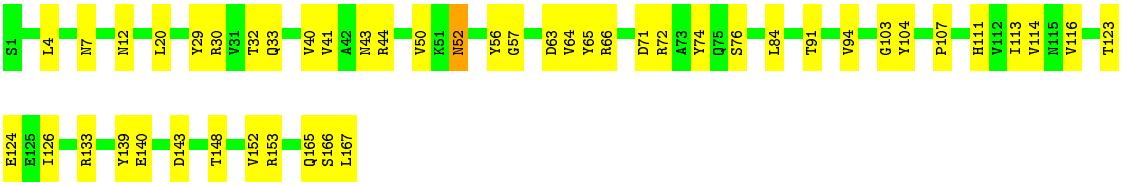


• Molecule 1: coat protein

Chain BY:

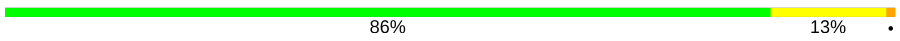
• Molecule 1: coat protein

Chain BZ:



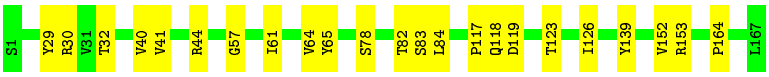
• Molecule 1: coat protein

Chain CA:



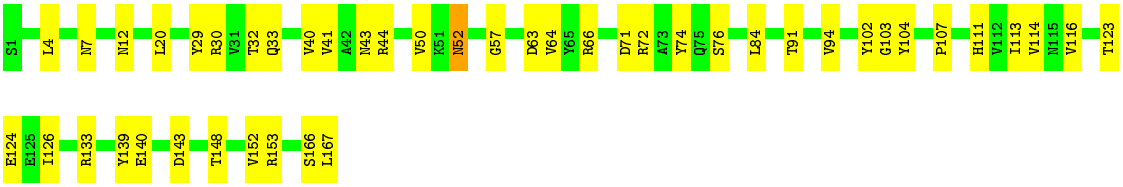
• Molecule 1: coat protein

Chain CB:



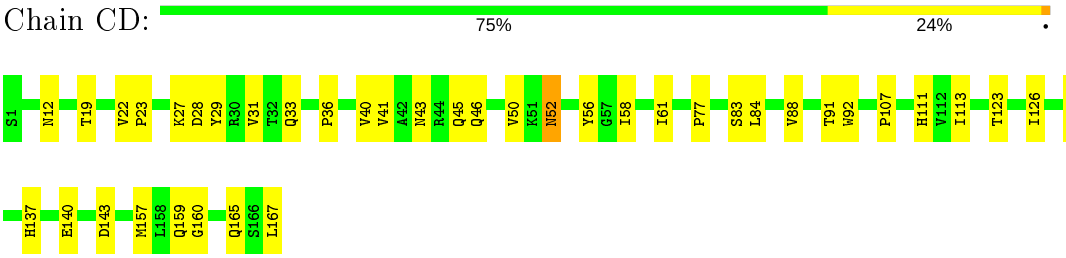
• Molecule 1: coat protein

Chain CC:



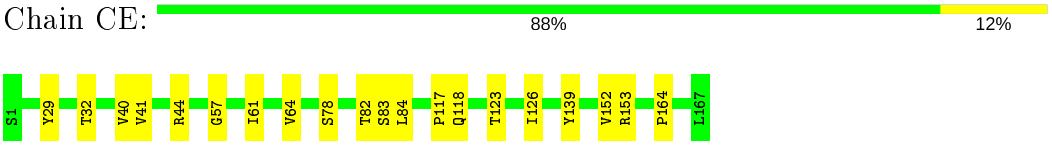
• Molecule 1: coat protein

Chain CD:



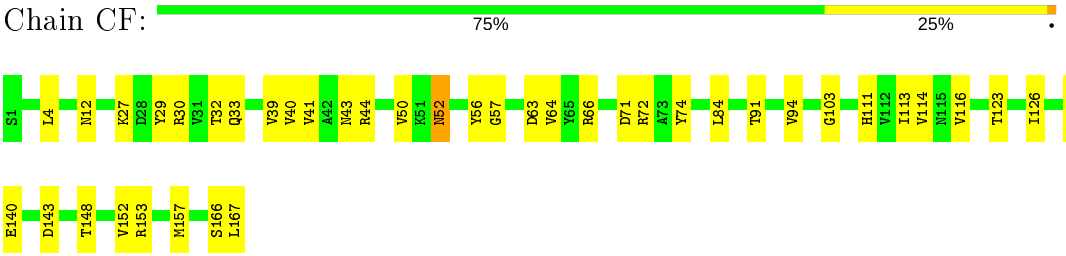
• Molecule 1: coat protein

Chain CE:



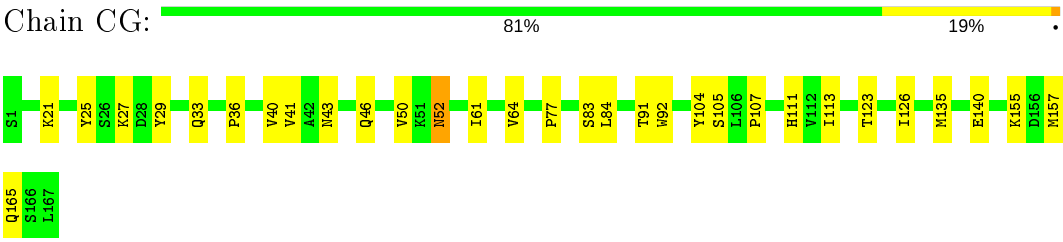
• Molecule 1: coat protein

Chain CF:



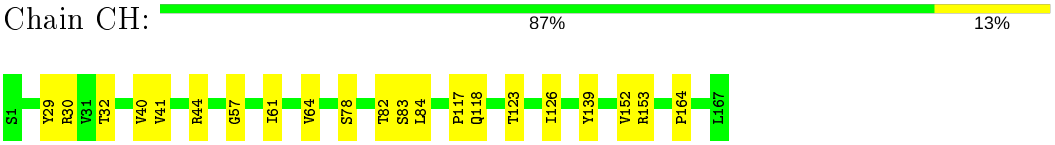
• Molecule 1: coat protein

Chain CG:



• Molecule 1: coat protein

Chain CH:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	I 2 3	Depositor
Cell constants a, b, c, α, β, γ	559.31Å 559.31Å 559.31Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	61.77 – 3.30 61.77 – 3.30	Depositor EDS
% Data completeness (in resolution range)	99.8 (61.77-3.30) 99.9 (61.77-3.30)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.70	Depositor
$< I/\sigma(I) >$ [1]	1.48 (at 3.33Å)	Xtriage
Refinement program	PHENIX 1.14_3260	Depositor
R, R_{free}	0.231 , 0.233 0.232 , 0.234	Depositor DCC
R_{free} test set	9978 reflections (2.32%)	wwPDB-VP
Wilson B-factor (Å^2)	67.2	Xtriage
Anisotropy	0.000	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.27 , 24.0	EDS
L-test for twinning[2]	$< \|L\| > = 0.48$, $< L^2 > = 0.31$	Xtriage
Estimated twinning fraction	0.000 for -l,-k,-h	Xtriage
F_o,F_c correlation	0.89	EDS
Total number of atoms	78980	wwPDB-VP
Average B, all atoms (Å^2)	66.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.58% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

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

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	0.36	0/1341	0.58	0/1828
1	AB	0.35	0/1341	0.60	0/1828
1	AC	0.33	0/1341	0.57	0/1828
1	AD	0.36	0/1341	0.58	0/1828
1	AE	0.35	0/1341	0.60	0/1828
1	AF	0.33	0/1341	0.57	0/1828
1	AG	0.36	0/1341	0.58	0/1828
1	AH	0.35	0/1341	0.60	0/1828
1	AI	0.33	0/1341	0.57	0/1828
1	AJ	0.36	0/1341	0.58	0/1828
1	AK	0.35	0/1341	0.60	0/1828
1	AL	0.33	0/1341	0.57	0/1828
1	AM	0.36	0/1341	0.58	0/1828
1	AN	0.35	0/1341	0.60	0/1828
1	AO	0.33	0/1341	0.57	0/1828
1	AP	0.36	0/1341	0.58	0/1828
1	AQ	0.35	0/1341	0.60	0/1828
1	AR	0.33	0/1341	0.57	0/1828
1	AS	0.36	0/1341	0.58	0/1828
1	AT	0.35	0/1341	0.60	0/1828
1	AU	0.33	0/1341	0.57	0/1828
1	AV	0.36	0/1341	0.58	0/1828
1	AW	0.35	0/1341	0.60	0/1828
1	AX	0.33	0/1341	0.57	0/1828
1	AY	0.36	0/1341	0.58	0/1828
1	AZ	0.35	0/1341	0.60	0/1828
1	BA	0.33	0/1341	0.57	0/1828
1	BB	0.36	0/1341	0.58	0/1828
1	BC	0.35	0/1341	0.60	0/1828
1	BD	0.33	0/1341	0.57	0/1828
1	BE	0.36	0/1341	0.58	0/1828
1	BF	0.35	0/1341	0.60	0/1828

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
1	BG	0.33	0/1341	0.57	0/1828
1	BH	0.36	0/1341	0.58	0/1828
1	BI	0.35	0/1341	0.60	0/1828
1	BJ	0.33	0/1341	0.57	0/1828
1	BK	0.36	0/1341	0.58	0/1828
1	BL	0.35	0/1341	0.60	0/1828
1	BM	0.33	0/1341	0.57	0/1828
1	BN	0.36	0/1341	0.58	0/1828
1	BO	0.35	0/1341	0.60	0/1828
1	BP	0.33	0/1341	0.57	0/1828
1	BQ	0.36	0/1341	0.58	0/1828
1	BR	0.35	0/1341	0.60	0/1828
1	BS	0.33	0/1341	0.57	0/1828
1	BT	0.36	0/1341	0.58	0/1828
1	BU	0.35	0/1341	0.60	0/1828
1	BV	0.33	0/1341	0.57	0/1828
1	BW	0.36	0/1341	0.58	0/1828
1	BX	0.35	0/1341	0.60	0/1828
1	BY	0.33	0/1341	0.57	0/1828
1	BZ	0.36	0/1341	0.58	0/1828
1	CA	0.35	0/1341	0.60	0/1828
1	CB	0.33	0/1341	0.57	0/1828
1	CC	0.36	0/1341	0.58	0/1828
1	CD	0.35	0/1341	0.60	0/1828
1	CE	0.33	0/1341	0.57	0/1828
1	CF	0.36	0/1341	0.58	0/1828
1	CG	0.35	0/1341	0.60	0/1828
1	CH	0.33	0/1341	0.57	0/1828
All	All	0.35	0/80460	0.58	0/109680

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AA	1316	0	1295	67	1
1	AB	1316	0	1295	24	0
1	AC	1316	0	1295	41	0
1	AD	1316	0	1295	31	0
1	AE	1316	0	1295	23	0
1	AF	1316	0	1295	24	0
1	AG	1316	0	1295	50	0
1	AH	1316	0	1295	36	0
1	AI	1316	0	1295	56	0
1	AJ	1316	0	1295	17	0
1	AK	1316	0	1295	26	0
1	AL	1316	0	1295	29	0
1	AM	1316	0	1295	34	0
1	AN	1316	0	1295	24	0
1	AO	1316	0	1295	30	0
1	AP	1316	0	1295	35	0
1	AQ	1316	0	1295	32	0
1	AR	1316	0	1295	14	0
1	AS	1316	0	1295	35	0
1	AT	1316	0	1295	36	0
1	AU	1316	0	1295	31	0
1	AV	1316	0	1295	32	0
1	AW	1316	0	1295	29	0
1	AX	1316	0	1295	30	0
1	AY	1316	0	1295	33	0
1	AZ	1316	0	1295	28	0
1	BA	1316	0	1295	38	0
1	BB	1316	0	1295	43	6
1	BC	1316	0	1295	29	0
1	BD	1316	0	1295	14	1
1	BE	1316	0	1295	42	0
1	BF	1316	0	1295	10	0
1	BG	1316	0	1295	26	0
1	BH	1316	0	1295	42	0
1	BI	1316	0	1295	23	0
1	BJ	1316	0	1295	16	2
1	BK	1316	0	1295	18	0
1	BL	1316	0	1295	45	0
1	BM	1316	0	1295	51	0
1	BN	1316	0	1295	47	0
1	BO	1316	0	1295	9	0
1	BP	1316	0	1295	31	0
1	BQ	1316	0	1295	33	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	BR	1316	0	1295	29	0
1	BS	1316	0	1295	30	0
1	BT	1316	0	1295	44	0
1	BU	1316	0	1295	42	2
1	BV	1316	0	1295	33	0
1	BW	1316	0	1295	39	0
1	BX	1316	0	1295	37	6
1	BY	1316	0	1295	34	0
1	BZ	1316	0	1295	37	0
1	CA	1316	0	1295	21	0
1	CB	1316	0	1295	13	2
1	CC	1316	0	1295	42	0
1	CD	1316	0	1295	56	0
1	CE	1316	0	1295	13	0
1	CF	1316	0	1295	35	0
1	CG	1316	0	1295	28	0
1	CH	1316	0	1295	15	0
2	AA	1	0	0	0	0
2	AD	1	0	0	0	0
2	AG	1	0	0	0	0
2	AJ	1	0	0	0	0
2	AM	1	0	0	0	0
2	AP	1	0	0	0	0
2	AS	1	0	0	0	0
2	AV	1	0	0	0	0
2	AY	1	0	0	0	0
2	BB	1	0	0	0	0
2	BE	1	0	0	0	0
2	BH	1	0	0	0	0
2	BK	1	0	0	0	0
2	BN	1	0	0	0	0
2	BQ	1	0	0	0	0
2	BT	1	0	0	0	0
2	BW	1	0	0	0	0
2	BZ	1	0	0	0	0
2	CC	1	0	0	0	0
2	CF	1	0	0	0	0
All	All	78980	0	77700	1302	10

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 8.

All (1302) 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:AA:28:ASP:OD2	1:CD:12:ASN:N	1.98	0.97
1:AA:12:ASN:N	1:CD:28:ASP:OD2	2.01	0.93
1:AI:12:ASN:N	1:BM:28:ASP:OD2	2.05	0.89
1:AA:27:LYS:NZ	1:CD:143:ASP:HB2	1.89	0.88
1:AG:74:TYR:HE2	1:BV:78:SER:HB3	1.40	0.84
1:AA:27:LYS:HZ3	1:CD:143:ASP:HB2	1.42	0.84
1:AW:25:TYR:HB3	1:AY:167:LEU:HD11	1.60	0.83
1:AA:4:LEU:HD11	1:CD:92:TRP:HB3	1.62	0.81
1:AR:78:SER:HB3	1:BB:74:TYR:HE2	1.45	0.81
1:AO:111:HIS:NE2	1:BS:113:ILE:HD12	1.96	0.81
1:BC:25:TYR:HB3	1:CC:167:LEU:HD11	1.64	0.80
1:AG:12:ASN:N	1:BU:28:ASP:OD2	2.13	0.79
1:AO:113:ILE:HD12	1:BS:111:HIS:NE2	1.97	0.79
1:AG:27:LYS:NZ	1:BU:143:ASP:HB2	1.97	0.79
1:AA:12:ASN:ND2	1:CD:27:LYS:HD2	1.97	0.78
1:AA:7:ASN:HB3	1:CD:46:GLN:HE22	1.49	0.78
1:AB:25:TYR:HB3	1:AM:167:LEU:HD11	1.65	0.77
1:AU:28:ASP:OD2	1:BV:12:ASN:N	2.16	0.76
1:AC:30:ARG:NE	1:CD:160:GLY:HA3	2.01	0.76
1:AG:4:LEU:HD11	1:BU:92:TRP:HB3	1.69	0.75
1:AA:74:TYR:HE2	1:CE:78:SER:HB3	1.51	0.75
1:AC:44:ARG:HB2	1:CD:159:GLN:HB3	1.68	0.75
1:AI:157:MET:HE3	1:BM:56:TYR:HB3	1.68	0.75
1:AI:157:MET:CE	1:BM:56:TYR:HB3	2.18	0.74
1:BC:107:PRO:HG2	1:CC:64:VAL:HG22	1.69	0.73
1:BC:111:HIS:NE2	1:CC:113:ILE:HD12	2.02	0.73
1:AA:12:ASN:CG	1:CD:27:LYS:HD2	2.08	0.73
1:AH:12:ASN:N	1:BH:28:ASP:OD2	2.13	0.73
1:BI:25:TYR:HB3	1:BQ:167:LEU:HD11	1.70	0.73
1:AU:84:LEU:HD11	1:BV:157:MET:HE1	1.70	0.72
1:AT:107:PRO:HG2	1:BE:64:VAL:HG22	1.71	0.72
1:AI:143:ASP:OD2	1:BM:27:LYS:HE2	1.88	0.72
1:AG:28:ASP:OD2	1:BU:12:ASN:N	2.13	0.71
1:AT:25:TYR:HB3	1:BE:167:LEU:HD11	1.72	0.71
1:AW:25:TYR:HB3	1:AY:167:LEU:CD1	2.20	0.71
1:BR:25:TYR:HB3	1:BW:167:LEU:HD11	1.72	0.71
1:BZ:64:VAL:HG22	1:CG:107:PRO:HG2	1.71	0.70
1:AB:25:TYR:HB3	1:AM:167:LEU:CD1	2.21	0.70
1:AI:28:ASP:OD2	1:BM:12:ASN:N	2.19	0.70
1:BC:113:ILE:HD12	1:CC:111:HIS:NE2	2.06	0.70
1:AL:78:SER:HB3	1:AS:74:TYR:HE2	1.56	0.69
1:AQ:92:TRP:HB3	1:BB:4:LEU:HD11	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BZ:12:ASN:ND2	1:CG:27:LYS:HD2	2.07	0.69
1:AA:167:LEU:CD2	1:CD:31:VAL:HG23	2.22	0.69
1:AI:157:MET:HE1	1:BM:84:LEU:HD11	1.74	0.68
1:BC:25:TYR:HB3	1:CC:167:LEU:CD1	2.24	0.68
1:BL:25:TYR:HB3	1:BN:167:LEU:HD11	1.76	0.68
1:BL:27:LYS:HD2	1:BN:12:ASN:ND2	2.09	0.67
1:AO:26:SER:HB3	1:BS:166:SER:HB3	1.74	0.67
1:AI:78:SER:HB3	1:BH:74:TYR:HE2	1.60	0.67
1:AG:27:LYS:HZ3	1:BU:143:ASP:HB2	1.56	0.67
1:BZ:167:LEU:HD11	1:CG:25:TYR:HB3	1.75	0.66
1:AM:94:VAL:O	1:AM:103:GLY:HA2	1.96	0.66
1:BB:94:VAL:O	1:BB:103:GLY:HA2	1.96	0.66
1:AI:44:ARG:HB2	1:BU:159:GLN:HB3	1.76	0.66
1:AQ:28:ASP:OD2	1:BB:12:ASN:N	2.21	0.66
1:AA:94:VAL:O	1:AA:103:GLY:HA2	1.96	0.66
1:AD:94:VAL:O	1:AD:103:GLY:HA2	1.96	0.66
1:BE:94:VAL:O	1:BE:103:GLY:HA2	1.96	0.66
1:BH:94:VAL:O	1:BH:103:GLY:HA2	1.96	0.66
1:BW:94:VAL:O	1:BW:103:GLY:HA2	1.96	0.66
1:AA:157:MET:HE1	1:CD:84:LEU:HD11	1.77	0.66
1:AG:94:VAL:O	1:AG:103:GLY:HA2	1.96	0.66
1:AP:94:VAL:O	1:AP:103:GLY:HA2	1.96	0.66
1:BQ:94:VAL:O	1:BQ:103:GLY:HA2	1.96	0.66
1:AY:94:VAL:O	1:AY:103:GLY:HA2	1.96	0.66
1:BN:94:VAL:O	1:BN:103:GLY:HA2	1.96	0.66
1:AH:159:GLN:HB3	1:BJ:44:ARG:HB2	1.76	0.66
1:CC:94:VAL:O	1:CC:103:GLY:HA2	1.96	0.66
1:BT:94:VAL:O	1:BT:103:GLY:HA2	1.96	0.66
1:AJ:94:VAL:O	1:AJ:103:GLY:HA2	1.96	0.65
1:AS:94:VAL:O	1:AS:103:GLY:HA2	1.96	0.65
1:BK:94:VAL:O	1:BK:103:GLY:HA2	1.96	0.65
1:AC:30:ARG:HD2	1:CD:159:GLN:O	1.96	0.65
1:AC:107:PRO:HG2	1:BA:64:VAL:HG22	1.79	0.65
1:AV:94:VAL:O	1:AV:103:GLY:HA2	1.96	0.65
1:AH:143:ASP:HB2	1:BH:27:LYS:NZ	2.12	0.65
1:BR:25:TYR:HB3	1:BW:167:LEU:CD1	2.27	0.65
1:BZ:94:VAL:O	1:BZ:103:GLY:HA2	1.96	0.65
1:CF:94:VAL:O	1:CF:103:GLY:HA2	1.96	0.65
1:BZ:4:LEU:HD11	1:CG:92:TRP:HB3	1.79	0.65
1:AI:27:LYS:HE2	1:BM:143:ASP:OD2	1.97	0.64
1:AA:27:LYS:HD2	1:CD:143:ASP:OD2	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:113:ILE:HD12	1:BP:111:HIS:NE2	2.13	0.64
1:AG:74:TYR:CE2	1:BV:78:SER:HB3	2.28	0.64
1:BZ:113:ILE:HD12	1:CG:111:HIS:NE2	2.13	0.64
1:AG:7:ASN:HB3	1:BU:46:GLN:HE22	1.62	0.64
1:AC:26:SER:HB3	1:BA:166:SER:HB3	1.81	0.63
1:BI:25:TYR:HB3	1:BQ:167:LEU:CD1	2.28	0.63
1:AG:12:ASN:ND2	1:BU:27:LYS:HD2	2.14	0.63
1:AA:7:ASN:HB3	1:CD:46:GLN:NE2	2.13	0.63
1:AH:92:TRP:HB3	1:BH:4:LEU:HD11	1.79	0.63
1:BL:107:PRO:HG2	1:BN:64:VAL:HG22	1.79	0.63
1:BC:64:VAL:HG22	1:CC:107:PRO:HG2	1.80	0.63
1:AF:78:SER:HB3	1:AV:74:TYR:HE2	1.62	0.63
1:AI:56:TYR:HB3	1:BM:157:MET:CE	2.29	0.63
1:AX:84:LEU:HD11	1:BY:157:MET:HE1	1.81	0.63
1:AH:27:LYS:HD2	1:BH:12:ASN:ND2	2.13	0.62
1:AC:30:ARG:HE	1:CD:160:GLY:HA3	1.63	0.62
1:AT:111:HIS:NE2	1:BE:113:ILE:HD12	2.14	0.62
1:AT:25:TYR:HB3	1:BE:167:LEU:CD1	2.28	0.62
1:AO:166:SER:HB3	1:BS:26:SER:HB3	1.80	0.62
1:AC:157:MET:CE	1:BA:56:TYR:HB3	2.29	0.62
1:AB:25:TYR:HB2	1:AM:166:SER:HB2	1.81	0.62
1:AL:111:HIS:NE2	1:BP:113:ILE:HD12	2.15	0.62
1:AZ:25:TYR:HB3	1:CF:167:LEU:HD11	1.80	0.62
1:BI:25:TYR:HB2	1:BQ:166:SER:HB2	1.81	0.62
1:BT:104:TYR:CZ	1:BX:77:PRO:HD3	2.35	0.62
1:AX:78:SER:HB3	1:AY:74:TYR:HE2	1.65	0.62
1:BL:104:TYR:CD2	1:BN:76:SER:HB2	2.35	0.62
1:AI:56:TYR:HB3	1:BM:157:MET:HE3	1.81	0.61
1:AA:56:TYR:HB3	1:CD:157:MET:HE3	1.83	0.61
1:AN:27:LYS:HE2	1:AP:143:ASP:OD2	2.01	0.61
1:BT:143:ASP:OD2	1:BX:27:LYS:HE2	2.01	0.61
1:BR:25:TYR:HB2	1:BW:166:SER:HB2	1.82	0.61
1:AN:25:TYR:HB2	1:AP:166:SER:HB2	1.83	0.61
1:AO:64:VAL:HG22	1:BS:107:PRO:HG2	1.83	0.61
1:BZ:74:TYR:HE2	1:CH:78:SER:HB3	1.65	0.61
1:AD:167:LEU:HD11	1:CA:25:TYR:HB3	1.83	0.60
1:AK:92:TRP:HB3	1:AS:4:LEU:HD11	1.84	0.60
1:AQ:84:LEU:HD11	1:BB:157:MET:HE1	1.83	0.60
1:BJ:78:SER:HB3	1:BQ:74:TYR:HE2	1.67	0.60
1:AH:160:GLY:HA3	1:BJ:30:ARG:NE	2.17	0.60
1:AB:27:LYS:HE2	1:AM:143:ASP:OD2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:107:PRO:HG2	1:BS:64:VAL:HG22	1.84	0.59
1:AW:107:PRO:HG2	1:AY:64:VAL:HG22	1.84	0.59
1:BC:27:LYS:HD2	1:CC:12:ASN:ND2	2.17	0.59
1:BT:166:SER:HB2	1:BX:25:TYR:HB2	1.84	0.59
1:AA:167:LEU:HD22	1:CD:31:VAL:HG23	1.83	0.59
1:AG:157:MET:HE1	1:BU:84:LEU:HD11	1.85	0.59
1:AA:157:MET:HE3	1:CD:56:TYR:HB3	1.85	0.59
1:AI:84:LEU:HD11	1:BM:157:MET:HE1	1.84	0.59
1:AR:78:SER:HB3	1:BB:74:TYR:CE2	2.33	0.59
1:BT:107:PRO:HG2	1:BX:64:VAL:HG22	1.85	0.59
1:AC:111:HIS:NE2	1:BA:113:ILE:HD12	2.18	0.59
1:BI:27:LYS:HE2	1:BQ:143:ASP:OD2	2.03	0.58
1:AH:143:ASP:HB2	1:BH:27:LYS:HZ3	1.66	0.58
1:AF:84:LEU:HD11	1:BG:157:MET:HE1	1.84	0.58
1:AQ:159:GLN:HB3	1:BD:44:ARG:HB2	1.85	0.58
1:AT:43:ASN:HB3	1:AT:52:ASN:HB3	1.86	0.58
1:BL:43:ASN:HB3	1:BL:52:ASN:HB3	1.86	0.58
1:BU:43:ASN:HB3	1:BU:52:ASN:HB3	1.86	0.58
1:AB:43:ASN:HB3	1:AB:52:ASN:HB3	1.86	0.58
1:AQ:43:ASN:HB3	1:AQ:52:ASN:HB3	1.86	0.58
1:AT:27:LYS:HD2	1:BE:12:ASN:ND2	2.18	0.58
1:BO:43:ASN:HB3	1:BO:52:ASN:HB3	1.86	0.58
1:AL:64:VAL:HG22	1:BP:107:PRO:HG2	1.86	0.58
1:BR:43:ASN:HB3	1:BR:52:ASN:HB3	1.86	0.58
1:BZ:111:HIS:NE2	1:CG:113:ILE:HD12	2.19	0.58
1:AP:143:ASP:HA	1:AP:148:THR:HG23	1.86	0.58
1:BK:143:ASP:HA	1:BK:148:THR:HG23	1.86	0.58
1:AE:43:ASN:HB3	1:AE:52:ASN:HB3	1.86	0.58
1:AK:43:ASN:HB3	1:AK:52:ASN:HB3	1.86	0.58
1:BC:159:GLN:HB3	1:CE:44:ARG:HB2	1.86	0.58
1:AC:166:SER:HB3	1:BA:26:SER:HB3	1.86	0.57
1:AV:143:ASP:HA	1:AV:148:THR:HG23	1.86	0.57
1:BF:43:ASN:HB3	1:BF:52:ASN:HB3	1.86	0.57
1:CA:43:ASN:HB3	1:CA:52:ASN:HB3	1.86	0.57
1:AK:61:ILE:HD11	1:AK:83:SER:HB2	1.86	0.57
1:AP:140:GLU:HG3	1:AP:153:ARG:HD2	1.87	0.57
1:BB:143:ASP:HA	1:BB:148:THR:HG23	1.86	0.57
1:BN:143:ASP:HA	1:BN:148:THR:HG23	1.86	0.57
1:BW:143:ASP:HA	1:BW:148:THR:HG23	1.86	0.57
1:AC:64:VAL:HG22	1:BA:107:PRO:HG2	1.86	0.57
1:BH:143:ASP:HA	1:BH:148:THR:HG23	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BI:43:ASN:HB3	1:BI:52:ASN:HB3	1.86	0.57
1:BR:61:ILE:HD11	1:BR:83:SER:HB2	1.86	0.57
1:BT:140:GLU:HG3	1:BT:153:ARG:HD2	1.86	0.57
1:AN:61:ILE:HD11	1:AN:83:SER:HB2	1.86	0.57
1:AZ:43:ASN:HB3	1:AZ:52:ASN:HB3	1.86	0.57
1:BB:140:GLU:HG3	1:BB:153:ARG:HD2	1.86	0.57
1:BQ:143:ASP:HA	1:BQ:148:THR:HG23	1.86	0.57
1:AA:165:GLN:CD	1:CC:30:ARG:HD2	2.24	0.57
1:AA:43:ASN:HB3	1:AA:52:ASN:HB3	1.87	0.57
1:AJ:140:GLU:HG3	1:AJ:153:ARG:HD2	1.86	0.57
1:AY:143:ASP:HA	1:AY:148:THR:HG23	1.86	0.57
1:BC:92:TRP:HB3	1:CC:4:LEU:HD11	1.85	0.57
1:BK:43:ASN:HB3	1:BK:52:ASN:HB3	1.87	0.57
1:CF:143:ASP:HA	1:CF:148:THR:HG23	1.86	0.57
1:AA:143:ASP:HA	1:AA:148:THR:HG23	1.86	0.57
1:AB:61:ILE:HD11	1:AB:83:SER:HB2	1.86	0.57
1:AG:140:GLU:HG3	1:AG:153:ARG:HD2	1.86	0.57
1:AP:43:ASN:HB3	1:AP:52:ASN:HB3	1.87	0.57
1:AT:21:LYS:HE3	1:BE:133:ARG:HG2	1.86	0.57
1:AE:27:LYS:HE2	1:AV:143:ASP:OD2	2.03	0.57
1:BU:29:TYR:HB3	1:BU:41:VAL:CG1	2.35	0.57
1:CC:140:GLU:HG3	1:CC:153:ARG:HD2	1.87	0.57
1:CD:61:ILE:HD11	1:CD:83:SER:HB2	1.86	0.57
1:AC:157:MET:HE2	1:BA:56:TYR:HB3	1.87	0.57
1:AG:43:ASN:HB3	1:AG:52:ASN:HB3	1.87	0.57
1:AH:29:TYR:HB3	1:AH:41:VAL:CG1	2.35	0.57
1:AT:113:ILE:HD12	1:BE:111:HIS:NE2	2.20	0.57
1:AV:43:ASN:HB3	1:AV:52:ASN:HB3	1.87	0.57
1:BE:43:ASN:HB3	1:BE:52:ASN:HB3	1.87	0.57
1:BL:21:LYS:HE3	1:BN:133:ARG:HG2	1.86	0.57
1:BX:29:TYR:HB3	1:BX:41:VAL:CG1	2.35	0.57
1:AK:29:TYR:HB3	1:AK:41:VAL:CG1	2.35	0.57
1:BC:29:TYR:HB3	1:BC:41:VAL:CG1	2.35	0.57
1:BE:143:ASP:HA	1:BE:148:THR:HG23	1.86	0.57
1:BF:61:ILE:HD11	1:BF:83:SER:HB2	1.86	0.57
1:AH:111:HIS:NE2	1:BH:113:ILE:HD12	2.20	0.57
1:BL:25:TYR:HB3	1:BN:167:LEU:CD1	2.35	0.57
1:BZ:140:GLU:HG3	1:BZ:153:ARG:HD2	1.87	0.57
1:CA:61:ILE:HD11	1:CA:83:SER:HB2	1.86	0.57
1:AW:111:HIS:NE2	1:AY:113:ILE:HD12	2.20	0.57
1:BI:61:ILE:HD11	1:BI:83:SER:HB2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BR:29:TYR:HB3	1:BR:41:VAL:CG1	2.35	0.57
1:CA:29:TYR:HB3	1:CA:41:VAL:CG1	2.35	0.57
1:CG:43:ASN:HB3	1:CG:52:ASN:HB3	1.86	0.57
1:BH:43:ASN:HB3	1:BH:52:ASN:HB3	1.87	0.57
1:BI:29:TYR:HB3	1:BI:41:VAL:CG1	2.35	0.57
1:BL:61:ILE:HD11	1:BL:83:SER:HB2	1.86	0.57
1:AQ:61:ILE:HD11	1:AQ:83:SER:HB2	1.86	0.56
1:BE:140:GLU:HG3	1:BE:153:ARG:HD2	1.87	0.56
1:BF:29:TYR:HB3	1:BF:41:VAL:CG1	2.35	0.56
1:BO:29:TYR:HB3	1:BO:41:VAL:CG1	2.35	0.56
1:AI:30:ARG:NE	1:BU:160:GLY:HA3	2.19	0.56
1:BW:140:GLU:HG3	1:BW:153:ARG:HD2	1.87	0.56
1:BX:61:ILE:HD11	1:BX:83:SER:HB2	1.86	0.56
1:AA:165:GLN:NE2	1:CC:30:ARG:HD2	2.20	0.56
1:AD:74:TYR:HE2	1:CB:78:SER:HB3	1.69	0.56
1:AE:61:ILE:HD11	1:AE:83:SER:HB2	1.86	0.56
1:AY:43:ASN:HB3	1:AY:52:ASN:HB3	1.87	0.56
1:AM:43:ASN:HB3	1:AM:52:ASN:HB3	1.87	0.56
1:AS:43:ASN:HB3	1:AS:52:ASN:HB3	1.87	0.56
1:AT:61:ILE:HD11	1:AT:83:SER:HB2	1.86	0.56
1:AV:140:GLU:HG3	1:AV:153:ARG:HD2	1.86	0.56
1:AW:29:TYR:HB3	1:AW:41:VAL:CG1	2.35	0.56
1:BC:43:ASN:HB3	1:BC:52:ASN:HB3	1.86	0.56
1:BL:29:TYR:HB3	1:BL:41:VAL:CG1	2.35	0.56
1:BQ:43:ASN:HB3	1:BQ:52:ASN:HB3	1.87	0.56
1:AE:29:TYR:HB3	1:AE:41:VAL:CG1	2.35	0.56
1:AH:43:ASN:HB3	1:AH:52:ASN:HB3	1.86	0.56
1:AB:2:LYS:HE2	1:AM:102:TYR:CZ	2.40	0.56
1:AN:29:TYR:HB3	1:AN:41:VAL:CG1	2.35	0.56
1:AS:143:ASP:HA	1:AS:148:THR:HG23	1.86	0.56
1:AW:43:ASN:HB3	1:AW:52:ASN:HB3	1.86	0.56
1:AZ:29:TYR:HB3	1:AZ:41:VAL:CG1	2.35	0.56
1:BN:43:ASN:HB3	1:BN:52:ASN:HB3	1.87	0.56
1:BU:61:ILE:HD11	1:BU:83:SER:HB2	1.86	0.56
1:CF:43:ASN:HB3	1:CF:52:ASN:HB3	1.87	0.56
1:AA:56:TYR:HB3	1:CD:157:MET:CE	2.35	0.56
1:AD:143:ASP:HA	1:AD:148:THR:HG23	1.86	0.56
1:AG:143:ASP:HA	1:AG:148:THR:HG23	1.86	0.56
1:AH:61:ILE:HD11	1:AH:83:SER:HB2	1.86	0.56
1:AN:43:ASN:HB3	1:AN:52:ASN:HB3	1.86	0.56
1:AO:78:SER:HB3	1:AP:74:TYR:HE2	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AQ:29:TYR:HB3	1:AQ:41:VAL:CG1	2.35	0.56
1:AW:61:ILE:HD11	1:AW:83:SER:HB2	1.86	0.56
1:AX:84:LEU:HD11	1:BY:157:MET:CE	2.36	0.56
1:AZ:61:ILE:HD11	1:AZ:83:SER:HB2	1.86	0.56
1:BT:43:ASN:HB3	1:BT:52:ASN:HB3	1.87	0.56
1:CF:140:GLU:HG3	1:CF:153:ARG:HD2	1.86	0.56
1:AD:140:GLU:HG3	1:AD:153:ARG:HD2	1.86	0.56
1:AJ:143:ASP:HA	1:AJ:148:THR:HG23	1.86	0.56
1:AM:143:ASP:HA	1:AM:148:THR:HG23	1.86	0.56
1:AQ:27:LYS:HD2	1:BB:12:ASN:ND2	2.21	0.56
1:AQ:143:ASP:HB2	1:BB:27:LYS:NZ	2.21	0.56
1:BH:140:GLU:HG3	1:BH:153:ARG:HD2	1.87	0.56
1:BQ:140:GLU:HG3	1:BQ:153:ARG:HD2	1.87	0.56
1:BT:143:ASP:HA	1:BT:148:THR:HG23	1.86	0.56
1:AU:84:LEU:HD11	1:BV:157:MET:CE	2.35	0.56
1:BZ:143:ASP:HA	1:BZ:148:THR:HG23	1.86	0.56
1:AL:26:SER:HB3	1:BP:166:SER:HB3	1.86	0.56
1:AS:140:GLU:HG3	1:AS:153:ARG:HD2	1.86	0.56
1:BC:61:ILE:HD11	1:BC:83:SER:HB2	1.86	0.56
1:AT:104:TYR:CD2	1:BE:76:SER:HB2	2.41	0.56
1:BO:61:ILE:HD11	1:BO:83:SER:HB2	1.86	0.56
1:BW:43:ASN:HB3	1:BW:52:ASN:HB3	1.87	0.56
1:CD:43:ASN:HB3	1:CD:52:ASN:HB3	1.86	0.56
1:AA:27:LYS:NZ	1:CD:143:ASP:CB	2.67	0.56
1:AB:29:TYR:HB3	1:AB:41:VAL:CG1	2.35	0.56
1:AI:134:LEU:HA	1:BM:88:VAL:HG21	1.87	0.56
1:AJ:43:ASN:HB3	1:AJ:52:ASN:HB3	1.87	0.56
1:AM:140:GLU:HG3	1:AM:153:ARG:HD2	1.86	0.56
1:AN:25:TYR:HB3	1:AP:167:LEU:HD11	1.88	0.56
1:BK:140:GLU:HG3	1:BK:153:ARG:HD2	1.86	0.56
1:AG:167:LEU:CD2	1:BU:31:VAL:HG23	2.36	0.56
1:BX:43:ASN:HB3	1:BX:52:ASN:HB3	1.86	0.56
1:AY:140:GLU:HG3	1:AY:153:ARG:HD2	1.87	0.56
1:BV:139:TYR:CE1	1:BV:152:VAL:HG12	2.41	0.56
1:BZ:43:ASN:HB3	1:BZ:52:ASN:HB3	1.87	0.56
1:AC:113:ILE:HD12	1:BA:111:HIS:NE2	2.20	0.56
1:AL:139:TYR:CE1	1:AL:152:VAL:HG12	2.41	0.56
1:AA:19:THR:O	1:CD:132:LYS:HD3	2.06	0.56
1:CG:29:TYR:HB3	1:CG:41:VAL:CG1	2.35	0.56
1:AR:139:TYR:CE1	1:AR:152:VAL:HG12	2.41	0.56
1:AT:29:TYR:HB3	1:AT:41:VAL:CG1	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:140:GLU:HG3	1:AA:153:ARG:HD2	1.87	0.55
1:BG:139:TYR:CE1	1:BG:152:VAL:HG12	2.41	0.55
1:AH:2:LYS:HE2	1:BH:102:TYR:CZ	2.40	0.55
1:BN:140:GLU:HG3	1:BN:153:ARG:HD2	1.87	0.55
1:BR:107:PRO:HG2	1:BW:64:VAL:HG22	1.87	0.55
1:CD:29:TYR:HB3	1:CD:41:VAL:CG1	2.35	0.55
1:CG:61:ILE:HD11	1:CG:83:SER:HB2	1.86	0.55
1:AC:139:TYR:CE1	1:AC:152:VAL:HG12	2.41	0.55
1:AD:43:ASN:HB3	1:AD:52:ASN:HB3	1.87	0.55
1:AH:157:MET:HE1	1:BH:84:LEU:HD11	1.89	0.55
1:BA:139:TYR:CE1	1:BA:152:VAL:HG12	2.41	0.55
1:AG:27:LYS:HZ1	1:BU:143:ASP:HB2	1.71	0.55
1:CC:43:ASN:HB3	1:CC:52:ASN:HB3	1.87	0.55
1:AA:132:LYS:HD3	1:CD:19:THR:O	2.06	0.55
1:AA:137:HIS:ND1	1:CD:56:TYR:OH	2.35	0.55
1:AZ:25:TYR:HB3	1:CF:167:LEU:CD1	2.37	0.55
1:BB:43:ASN:HB3	1:BB:52:ASN:HB3	1.87	0.55
1:BJ:139:TYR:CE1	1:BJ:152:VAL:HG12	2.41	0.55
1:BM:139:TYR:CE1	1:BM:152:VAL:HG12	2.41	0.55
1:BY:139:TYR:CE1	1:BY:152:VAL:HG12	2.41	0.55
1:AA:167:LEU:HD23	1:CD:31:VAL:HG23	1.88	0.55
1:AZ:25:TYR:HB2	1:CF:166:SER:HB2	1.88	0.55
1:AU:139:TYR:CE1	1:AU:152:VAL:HG12	2.41	0.55
1:AE:25:TYR:HB2	1:AV:166:SER:HB2	1.88	0.55
1:AG:12:ASN:CG	1:BU:27:LYS:HD2	2.27	0.55
1:CC:143:ASP:HA	1:CC:148:THR:HG23	1.86	0.55
1:AF:139:TYR:CE1	1:AF:152:VAL:HG12	2.41	0.55
1:AX:139:TYR:CE1	1:AX:152:VAL:HG12	2.41	0.55
1:CH:139:TYR:CE1	1:CH:152:VAL:HG12	2.41	0.55
1:AK:25:TYR:HB2	1:AS:166:SER:HB2	1.89	0.55
1:AK:25:TYR:HB3	1:AS:167:LEU:HD11	1.88	0.55
1:CB:139:TYR:CE1	1:CB:152:VAL:HG12	2.41	0.55
1:BP:139:TYR:CE1	1:BP:152:VAL:HG12	2.41	0.55
1:BS:139:TYR:CE1	1:BS:152:VAL:HG12	2.41	0.55
1:AC:104:TYR:CD2	1:BA:76:SER:HB3	2.42	0.55
1:BD:139:TYR:CE1	1:BD:152:VAL:HG12	2.41	0.55
1:AH:107:PRO:HG2	1:BH:64:VAL:HG22	1.87	0.55
1:AX:127:LEU:HB3	1:BY:154:LEU:HD21	1.88	0.55
1:AD:166:SER:HB2	1:CA:25:TYR:HB2	1.88	0.55
1:CE:139:TYR:CE1	1:CE:152:VAL:HG12	2.41	0.55
1:AQ:46:GLN:HE22	1:BB:7:ASN:HB3	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CB:44:ARG:HB2	1:CG:159:GLN:HB3	1.88	0.55
1:AK:27:LYS:HE2	1:AS:143:ASP:OD2	2.07	0.55
1:AK:84:LEU:HD11	1:AS:157:MET:HE1	1.88	0.55
1:AO:139:TYR:CE1	1:AO:152:VAL:HG12	2.41	0.54
1:AU:166:SER:HB3	1:BV:26:SER:HB3	1.89	0.54
1:BZ:167:LEU:CD1	1:CG:25:TYR:HB3	2.37	0.54
1:AW:92:TRP:HB3	1:AY:4:LEU:HD11	1.88	0.54
1:AZ:27:LYS:HD2	1:CF:12:ASN:ND2	2.21	0.54
1:AA:84:LEU:HD11	1:CD:157:MET:HE1	1.88	0.54
1:BT:162:LEU:HD13	1:BX:56:TYR:O	2.07	0.54
1:BT:64:VAL:HG22	1:BX:107:PRO:HG2	1.89	0.54
1:AI:139:TYR:CE1	1:AI:152:VAL:HG12	2.41	0.54
1:BI:155:LYS:HB2	1:BQ:124:GLU:CD	2.27	0.54
1:AF:157:MET:HE1	1:BG:84:LEU:HD11	1.90	0.54
1:BC:21:LYS:HE3	1:CC:133:ARG:HG2	1.87	0.54
1:AA:31:VAL:HG23	1:CD:167:LEU:HD13	1.90	0.54
1:AH:27:LYS:HE2	1:BH:143:ASP:OD2	2.08	0.54
1:AE:92:TRP:HB3	1:AV:4:LEU:HD11	1.89	0.54
1:AU:113:ILE:HD12	1:BV:111:HIS:NE2	2.23	0.54
1:AH:44:ARG:HH22	1:BM:152:VAL:HG23	1.72	0.54
1:AI:152:VAL:HG23	1:BL:44:ARG:HH22	1.73	0.54
1:AT:64:VAL:HG22	1:BE:107:PRO:HG2	1.90	0.54
1:AI:152:VAL:CG2	1:BL:44:ARG:HH22	2.21	0.53
1:AA:64:VAL:HG22	1:CD:107:PRO:HG2	1.90	0.53
1:AL:166:SER:HB3	1:BP:26:SER:HB3	1.91	0.53
1:AD:4:LEU:HD11	1:CA:92:TRP:HB3	1.90	0.53
1:AW:30:ARG:CZ	1:BY:165:GLN:NE2	2.71	0.53
1:AW:21:LYS:HE3	1:AY:133:ARG:HG2	1.90	0.53
1:AW:25:TYR:HB2	1:AY:166:SER:HB2	1.91	0.53
1:AC:56:TYR:HB3	1:BA:157:MET:CE	2.38	0.53
1:AI:27:LYS:HD2	1:BM:12:ASN:ND2	2.23	0.53
1:BR:21:LYS:HE3	1:BW:133:ARG:HG2	1.90	0.53
1:AD:143:ASP:OD2	1:CA:27:LYS:HE2	2.08	0.53
1:AA:27:LYS:HB3	1:CD:12:ASN:HD22	1.73	0.53
1:BZ:7:ASN:HB3	1:CG:46:GLN:HE22	1.74	0.53
1:AC:104:TYR:OH	1:BA:119:ASP:OD1	2.17	0.53
1:BC:77:PRO:HD3	1:CC:104:TYR:CZ	2.44	0.53
1:BT:113:ILE:HD12	1:BX:111:HIS:NE2	2.24	0.53
1:AA:27:LYS:HZ1	1:CD:143:ASP:HB2	1.69	0.53
1:BT:167:LEU:HD11	1:BX:25:TYR:HB3	1.89	0.53
1:AD:50:VAL:HG13	1:AD:91:THR:HB	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:7:ASN:HB3	1:BU:46:GLN:NE2	2.23	0.53
1:AI:111:HIS:NE2	1:BM:113:ILE:HD12	2.23	0.53
1:AI:167:LEU:HD13	1:BM:31:VAL:HG23	1.91	0.53
1:CF:50:VAL:HG13	1:CF:91:THR:HB	1.91	0.53
1:AC:78:SER:HB3	1:AM:74:TYR:HE2	1.74	0.52
1:AP:50:VAL:HG13	1:AP:91:THR:HB	1.91	0.52
1:AS:50:VAL:HG13	1:AS:91:THR:HB	1.91	0.52
1:AW:44:ARG:HH11	1:BY:156:ASP:CG	2.12	0.52
1:AZ:27:LYS:HE2	1:CF:143:ASP:OD2	2.08	0.52
1:BI:92:TRP:HB3	1:BQ:4:LEU:HD11	1.92	0.52
1:AV:50:VAL:HG13	1:AV:91:THR:HB	1.91	0.52
1:BQ:50:VAL:HG13	1:BQ:91:THR:HB	1.91	0.52
1:CC:50:VAL:HG13	1:CC:91:THR:HB	1.91	0.52
1:AZ:107:PRO:HG2	1:CF:64:VAL:HG22	1.92	0.52
1:AH:46:GLN:HE22	1:BH:7:ASN:HB3	1.74	0.52
1:AM:30:ARG:NH2	1:AM:44:ARG:HH12	2.08	0.52
1:BA:78:SER:HB3	1:CF:74:TYR:HE2	1.74	0.52
1:BK:50:VAL:HG13	1:BK:91:THR:HB	1.91	0.52
1:BN:30:ARG:NH2	1:BN:44:ARG:HH12	2.08	0.52
1:BT:133:ARG:HG2	1:BX:21:LYS:HE3	1.91	0.52
1:BZ:50:VAL:HG13	1:BZ:91:THR:HB	1.91	0.52
1:AA:30:ARG:NH2	1:AA:44:ARG:HH12	2.08	0.52
1:AE:25:TYR:HB3	1:AV:167:LEU:HD11	1.90	0.52
1:BT:50:VAL:HG13	1:BT:91:THR:HB	1.91	0.52
1:BZ:30:ARG:NH2	1:BZ:44:ARG:HH12	2.08	0.52
1:AA:74:TYR:CE2	1:CE:78:SER:HB3	2.38	0.52
1:CF:30:ARG:NH2	1:CF:44:ARG:HH12	2.08	0.52
1:AY:30:ARG:NH2	1:AY:44:ARG:HH12	2.08	0.52
1:BH:30:ARG:NH2	1:BH:44:ARG:HH12	2.08	0.52
1:BV:44:ARG:HB2	1:BX:159:GLN:HB3	1.91	0.52
1:BW:30:ARG:NH2	1:BW:44:ARG:HH12	2.08	0.52
1:AH:50:VAL:HG13	1:AH:91:THR:HB	1.92	0.52
1:AI:64:VAL:HG21	1:AI:117:PRO:HG3	1.92	0.52
1:AT:25:TYR:HB2	1:BE:166:SER:HB2	1.90	0.52
1:AH:113:ILE:HD12	1:BH:111:HIS:NE2	2.25	0.52
1:AC:64:VAL:HG21	1:AC:117:PRO:HG3	1.92	0.52
1:AE:50:VAL:HG13	1:AE:91:THR:HB	1.92	0.52
1:AS:30:ARG:NH2	1:AS:44:ARG:HH12	2.08	0.52
1:AT:157:MET:HE3	1:BE:56:TYR:CD1	2.45	0.52
1:BJ:64:VAL:HG21	1:BJ:117:PRO:HG3	1.92	0.52
1:BR:27:LYS:HE2	1:BW:143:ASP:OD2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:30:ARG:NH2	1:AD:44:ARG:HH12	2.08	0.52
1:AJ:30:ARG:NH2	1:AJ:44:ARG:HH12	2.08	0.52
1:AR:64:VAL:HG21	1:AR:117:PRO:HG3	1.92	0.52
1:AW:27:LYS:HD2	1:AY:12:ASN:ND2	2.25	0.52
1:AZ:50:VAL:HG13	1:AZ:91:THR:HB	1.92	0.52
1:BI:50:VAL:HG13	1:BI:91:THR:HB	1.92	0.52
1:BR:111:HIS:NE2	1:BW:113:ILE:HD12	2.25	0.52
1:BU:50:VAL:HG13	1:BU:91:THR:HB	1.92	0.52
1:AI:137:HIS:ND1	1:BM:56:TYR:OH	2.38	0.52
1:BA:64:VAL:HG21	1:BA:117:PRO:HG3	1.92	0.52
1:BH:50:VAL:HG13	1:BH:91:THR:HB	1.91	0.52
1:BL:25:TYR:HB2	1:BN:166:SER:HB2	1.93	0.52
1:BT:157:MET:CE	1:BX:56:TYR:HB3	2.40	0.52
1:BT:30:ARG:NH2	1:BT:44:ARG:HH12	2.08	0.52
1:BW:50:VAL:HG13	1:BW:91:THR:HB	1.91	0.52
1:BT:167:LEU:CD1	1:BX:25:TYR:HB3	2.40	0.52
1:AF:64:VAL:HG21	1:AF:117:PRO:HG3	1.92	0.51
1:AU:78:SER:HA	1:BE:71:ASP:OD2	2.10	0.51
1:BT:157:MET:HE3	1:BX:56:TYR:CD1	2.45	0.51
1:AN:50:VAL:HG13	1:AN:91:THR:HB	1.92	0.51
1:AQ:27:LYS:HE2	1:BB:143:ASP:OD2	2.10	0.51
1:AU:64:VAL:HG21	1:AU:117:PRO:HG3	1.92	0.51
1:AU:94:VAL:HA	1:BV:3:ILE:O	2.09	0.51
1:AV:30:ARG:NH2	1:AV:44:ARG:HH12	2.08	0.51
1:AW:155:LYS:HB2	1:AY:124:GLU:CD	2.30	0.51
1:AY:50:VAL:HG13	1:AY:91:THR:HB	1.91	0.51
1:BE:30:ARG:NH2	1:BE:44:ARG:HH12	2.08	0.51
1:BG:64:VAL:HG21	1:BG:117:PRO:HG3	1.92	0.51
1:BX:50:VAL:HG13	1:BX:91:THR:HB	1.92	0.51
1:CC:30:ARG:NH2	1:CC:44:ARG:HH12	2.08	0.51
1:BE:50:VAL:HG13	1:BE:91:THR:HB	1.91	0.51
1:AD:157:MET:HE1	1:CA:84:LEU:HD11	1.92	0.51
1:AT:50:VAL:HG13	1:AT:91:THR:HB	1.92	0.51
1:BK:30:ARG:NH2	1:BK:44:ARG:HH12	2.08	0.51
1:BS:64:VAL:HG21	1:BS:117:PRO:HG3	1.92	0.51
1:AC:20:LEU:HD22	1:BA:135:MET:HB2	1.92	0.51
1:AD:12:ASN:ND2	1:CA:27:LYS:HD2	2.25	0.51
1:AD:71:ASP:OD1	1:AD:72:ARG:N	2.44	0.51
1:AG:71:ASP:OD1	1:AG:72:ARG:N	2.44	0.51
1:AJ:50:VAL:HG13	1:AJ:91:THR:HB	1.91	0.51
1:AJ:71:ASP:OD1	1:AJ:72:ARG:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:50:VAL:HG13	1:AM:91:THR:HB	1.91	0.51
1:BB:50:VAL:HG13	1:BB:91:THR:HB	1.91	0.51
1:BN:50:VAL:HG13	1:BN:91:THR:HB	1.91	0.51
1:BO:50:VAL:HG13	1:BO:91:THR:HB	1.92	0.51
1:CG:50:VAL:HG13	1:CG:91:THR:HB	1.92	0.51
1:AA:50:VAL:HG13	1:AA:91:THR:HB	1.91	0.51
1:BE:71:ASP:OD1	1:BE:72:ARG:N	2.44	0.51
1:AI:96:SER:OG	1:BL:100:GLU:HG3	2.11	0.51
1:BN:71:ASP:OD1	1:BN:72:ARG:N	2.44	0.51
1:AD:167:LEU:CD1	1:CA:25:TYR:HB3	2.40	0.51
1:AI:19:THR:O	1:BM:132:LYS:HD3	2.11	0.51
1:AV:71:ASP:OD1	1:AV:72:ARG:N	2.44	0.51
1:AW:113:ILE:HD12	1:AY:111:HIS:NE2	2.26	0.51
1:AX:64:VAL:HG21	1:AX:117:PRO:HG3	1.92	0.51
1:BB:71:ASP:OD1	1:BB:72:ARG:N	2.44	0.51
1:BQ:71:ASP:OD1	1:BQ:72:ARG:N	2.44	0.51
1:BV:64:VAL:HG21	1:BV:117:PRO:HG3	1.92	0.51
1:CD:50:VAL:HG13	1:CD:91:THR:HB	1.92	0.51
1:AB:50:VAL:HG13	1:AB:91:THR:HB	1.92	0.51
1:AQ:50:VAL:HG13	1:AQ:91:THR:HB	1.92	0.51
1:BB:30:ARG:NH2	1:BB:44:ARG:HH12	2.08	0.51
1:BQ:30:ARG:NH2	1:BQ:44:ARG:HH12	2.08	0.51
1:BT:71:ASP:OD1	1:BT:72:ARG:N	2.44	0.51
1:BV:30:ARG:NE	1:BX:160:GLY:HA3	2.26	0.51
1:AA:71:ASP:OD1	1:AA:72:ARG:N	2.44	0.51
1:AE:159:GLN:HB3	1:AX:44:ARG:HB2	1.92	0.51
1:AG:30:ARG:NH2	1:AG:44:ARG:HH12	2.08	0.51
1:AL:64:VAL:HG21	1:AL:117:PRO:HG3	1.92	0.51
1:AP:30:ARG:NH2	1:AP:44:ARG:HH12	2.08	0.51
1:BI:154:LEU:HD21	1:BQ:127:LEU:HB3	1.93	0.51
1:BK:71:ASP:OD1	1:BK:72:ARG:N	2.44	0.51
1:CF:71:ASP:OD1	1:CF:72:ARG:N	2.44	0.51
1:AI:157:MET:CE	1:BM:84:LEU:HD11	2.39	0.50
1:AK:50:VAL:HG13	1:AK:91:THR:HB	1.92	0.50
1:AM:139:TYR:CE1	1:AM:152:VAL:HG12	2.47	0.50
1:AM:71:ASP:OD1	1:AM:72:ARG:N	2.44	0.50
1:BE:139:TYR:CE1	1:BE:152:VAL:HG12	2.47	0.50
1:CA:50:VAL:HG13	1:CA:91:THR:HB	1.92	0.50
1:AO:64:VAL:HG21	1:AO:117:PRO:HG3	1.92	0.50
1:AW:50:VAL:HG13	1:AW:91:THR:HB	1.92	0.50
1:AY:71:ASP:OD1	1:AY:72:ARG:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BB:139:TYR:CE1	1:BB:152:VAL:HG12	2.47	0.50
1:BQ:139:TYR:CE1	1:BQ:152:VAL:HG12	2.47	0.50
1:BT:111:HIS:NE2	1:BX:113:ILE:HD12	2.26	0.50
1:AI:30:ARG:HD2	1:BU:159:GLN:O	2.10	0.50
1:BT:97:THR:HB	1:BX:1:SER:HA	1.93	0.50
1:CF:139:TYR:CE1	1:CF:152:VAL:HG12	2.47	0.50
1:BZ:65:TYR:OH	1:CG:105:SER:O	2.21	0.50
1:AP:139:TYR:CE1	1:AP:152:VAL:HG12	2.47	0.50
1:AP:71:ASP:OD1	1:AP:72:ARG:N	2.44	0.50
1:AV:139:TYR:CE1	1:AV:152:VAL:HG12	2.47	0.50
1:BN:139:TYR:CE1	1:BN:152:VAL:HG12	2.47	0.50
1:BZ:139:TYR:CE1	1:BZ:152:VAL:HG12	2.47	0.50
1:CC:71:ASP:OD1	1:CC:72:ARG:N	2.44	0.50
1:AA:157:MET:CE	1:CD:84:LEU:HD11	2.40	0.50
1:AZ:159:GLN:HB3	1:CH:44:ARG:HB2	1.91	0.50
1:AA:157:MET:CE	1:CD:56:TYR:HB3	2.41	0.50
1:AJ:139:TYR:CE1	1:AJ:152:VAL:HG12	2.47	0.50
1:AB:155:LYS:HB2	1:AM:124:GLU:CD	2.31	0.50
1:BL:160:GLY:HA3	1:BP:30:ARG:NE	2.27	0.50
1:BM:64:VAL:HG21	1:BM:117:PRO:HG3	1.92	0.50
1:AI:107:PRO:HG2	1:BM:64:VAL:HG22	1.91	0.50
1:AG:113:ILE:HD12	1:BU:111:HIS:NE2	2.27	0.50
1:AZ:21:LYS:HE3	1:CF:133:ARG:HG2	1.93	0.50
1:AD:139:TYR:CE1	1:AD:152:VAL:HG12	2.47	0.50
1:AG:139:TYR:CE1	1:AG:152:VAL:HG12	2.47	0.50
1:AG:50:VAL:HG13	1:AG:91:THR:HB	1.91	0.50
1:AL:157:MET:HE1	1:BP:84:LEU:HD11	1.93	0.50
1:AS:71:ASP:OD1	1:AS:72:ARG:N	2.44	0.50
1:AU:92:TRP:CD1	1:BV:6:THR:HA	2.46	0.50
1:BR:50:VAL:HG13	1:BR:91:THR:HB	1.92	0.50
1:BW:71:ASP:OD1	1:BW:72:ARG:N	2.44	0.50
1:AL:153:ARG:NH1	1:AL:164:PRO:HG3	2.27	0.50
1:BF:50:VAL:HG13	1:BF:91:THR:HB	1.92	0.50
1:BH:139:TYR:CE1	1:BH:152:VAL:HG12	2.47	0.50
1:BH:71:ASP:OD1	1:BH:72:ARG:N	2.44	0.50
1:AI:113:ILE:HD12	1:BM:111:HIS:NE2	2.27	0.50
1:BP:64:VAL:HG21	1:BP:117:PRO:HG3	1.92	0.50
1:AF:44:ARG:HB2	1:CA:159:GLN:HB3	1.92	0.50
1:AY:139:TYR:CE1	1:AY:152:VAL:HG12	2.47	0.50
1:BK:139:TYR:CE1	1:BK:152:VAL:HG12	2.47	0.50
1:BZ:71:ASP:OD1	1:BZ:72:ARG:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CB:64:VAL:HG21	1:CB:117:PRO:HG3	1.92	0.50
1:AU:111:HIS:NE2	1:BV:113:ILE:HD12	2.27	0.50
1:BC:50:VAL:HG13	1:BC:91:THR:HB	1.92	0.50
1:AG:27:LYS:HD2	1:BU:143:ASP:OD2	2.11	0.50
1:AA:139:TYR:CE1	1:AA:152:VAL:HG12	2.47	0.50
1:BL:159:GLN:HB3	1:BP:44:ARG:HB2	1.94	0.50
1:AU:56:TYR:HB3	1:BV:157:MET:HE3	1.92	0.50
1:AE:27:LYS:HD2	1:AV:12:ASN:ND2	2.27	0.49
1:AF:57:GLY:O	1:AF:84:LEU:HD12	2.12	0.49
1:AN:25:TYR:HB3	1:AP:167:LEU:CD1	2.42	0.49
1:AS:139:TYR:CE1	1:AS:152:VAL:HG12	2.47	0.49
1:AU:153:ARG:NH1	1:AU:164:PRO:HG3	2.27	0.49
1:BL:50:VAL:HG13	1:BL:91:THR:HB	1.92	0.49
1:BV:57:GLY:O	1:BV:84:LEU:HD12	2.12	0.49
1:BT:12:ASN:ND2	1:BX:27:LYS:HD2	2.26	0.49
1:CH:153:ARG:NH1	1:CH:164:PRO:HG3	2.27	0.49
1:CH:64:VAL:HG21	1:CH:117:PRO:HG3	1.92	0.49
1:AC:57:GLY:O	1:AC:84:LEU:HD12	2.12	0.49
1:AL:56:TYR:HB3	1:BP:157:MET:CE	2.42	0.49
1:AN:92:TRP:HB3	1:AP:4:LEU:HD11	1.94	0.49
1:BD:153:ARG:NH1	1:BD:164:PRO:HG3	2.27	0.49
1:BD:57:GLY:O	1:BD:84:LEU:HD12	2.12	0.49
1:BG:57:GLY:O	1:BG:84:LEU:HD12	2.12	0.49
1:BS:57:GLY:O	1:BS:84:LEU:HD12	2.12	0.49
1:BT:139:TYR:CE1	1:BT:152:VAL:HG12	2.47	0.49
1:BT:29:TYR:HB3	1:BT:41:VAL:CG1	2.42	0.49
1:AG:143:ASP:OD2	1:BU:27:LYS:HE2	2.12	0.49
1:BY:64:VAL:HG21	1:BY:117:PRO:HG3	1.92	0.49
1:BZ:29:TYR:HB3	1:BZ:41:VAL:CG1	2.42	0.49
1:CC:139:TYR:CE1	1:CC:152:VAL:HG12	2.47	0.49
1:CE:64:VAL:HG21	1:CE:117:PRO:HG3	1.92	0.49
1:CE:57:GLY:O	1:CE:84:LEU:HD12	2.12	0.49
1:AF:153:ARG:NH1	1:AF:164:PRO:HG3	2.27	0.49
1:AX:57:GLY:O	1:AX:84:LEU:HD12	2.12	0.49
1:AC:157:MET:HE1	1:BA:84:LEU:HD11	1.94	0.49
1:BB:29:TYR:HB3	1:BB:41:VAL:CG1	2.43	0.49
1:BD:64:VAL:HG21	1:BD:117:PRO:HG3	1.92	0.49
1:BE:29:TYR:HB3	1:BE:41:VAL:CG1	2.43	0.49
1:BG:153:ARG:NH1	1:BG:164:PRO:HG3	2.27	0.49
1:BS:153:ARG:NH1	1:BS:164:PRO:HG3	2.27	0.49
1:BV:153:ARG:NH1	1:BV:164:PRO:HG3	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BW:139:TYR:CE1	1:BW:152:VAL:HG12	2.47	0.49
1:AX:166:SER:HB2	1:BY:25:TYR:HB2	1.95	0.49
1:AB:111:HIS:NE2	1:AM:113:ILE:HD12	2.27	0.49
1:AG:157:MET:HE3	1:BU:56:TYR:HB3	1.92	0.49
1:AP:29:TYR:HB3	1:AP:41:VAL:CG1	2.43	0.49
1:BA:57:GLY:O	1:BA:84:LEU:HD12	2.12	0.49
1:BM:153:ARG:NH1	1:BM:164:PRO:HG3	2.27	0.49
1:BP:57:GLY:O	1:BP:84:LEU:HD12	2.12	0.49
1:AA:29:TYR:HB3	1:AA:41:VAL:CG1	2.43	0.49
1:AM:29:TYR:HB3	1:AM:41:VAL:CG1	2.42	0.49
1:AO:153:ARG:NH1	1:AO:164:PRO:HG3	2.27	0.49
1:AX:153:ARG:NH1	1:AX:164:PRO:HG3	2.27	0.49
1:AT:44:ARG:HH22	1:BV:152:VAL:HG23	1.77	0.49
1:BY:57:GLY:O	1:BY:84:LEU:HD12	2.12	0.49
1:AG:167:LEU:HD22	1:BU:31:VAL:HG23	1.95	0.49
1:AG:29:TYR:HB3	1:AG:41:VAL:CG1	2.42	0.49
1:AR:57:GLY:O	1:AR:84:LEU:HD12	2.12	0.49
1:AV:29:TYR:HB3	1:AV:41:VAL:CG1	2.43	0.49
1:BY:153:ARG:NH1	1:BY:164:PRO:HG3	2.27	0.49
1:CB:57:GLY:O	1:CB:84:LEU:HD12	2.12	0.49
1:BH:29:TYR:HB3	1:BH:41:VAL:CG1	2.42	0.49
1:BL:159:GLN:O	1:BP:30:ARG:HD2	2.13	0.49
1:BW:29:TYR:HB3	1:BW:41:VAL:CG1	2.42	0.49
1:CE:153:ARG:NH1	1:CE:164:PRO:HG3	2.27	0.49
1:CF:29:TYR:HB3	1:CF:41:VAL:CG1	2.42	0.49
1:AC:153:ARG:NH1	1:AC:164:PRO:HG3	2.27	0.49
1:AI:153:ARG:NH1	1:AI:164:PRO:HG3	2.27	0.49
1:AI:20:LEU:HD22	1:BM:135:MET:HB2	1.94	0.49
1:AO:57:GLY:O	1:AO:84:LEU:HD12	2.12	0.49
1:AR:153:ARG:NH1	1:AR:164:PRO:HG3	2.27	0.49
1:AY:29:TYR:HB3	1:AY:41:VAL:CG1	2.42	0.49
1:CH:57:GLY:O	1:CH:84:LEU:HD12	2.12	0.49
1:AD:29:TYR:HB3	1:AD:41:VAL:CG1	2.43	0.49
1:AI:12:ASN:H	1:BM:28:ASP:CG	2.08	0.49
1:BJ:153:ARG:NH1	1:BJ:164:PRO:HG3	2.27	0.49
1:BP:153:ARG:NH1	1:BP:164:PRO:HG3	2.27	0.49
1:BQ:29:TYR:HB3	1:BQ:41:VAL:CG1	2.43	0.49
1:AX:157:MET:HE1	1:BY:84:LEU:HD11	1.94	0.49
1:AZ:92:TRP:HB3	1:CF:4:LEU:HD11	1.93	0.49
1:AC:166:SER:HB2	1:BA:25:TYR:HB2	1.95	0.49
1:AS:29:TYR:HB3	1:AS:41:VAL:CG1	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AW:123:THR:OG1	1:AW:126:ILE:HG12	2.13	0.49
1:AX:65:TYR:CE1	1:BY:107:PRO:HD3	2.48	0.49
1:BJ:57:GLY:O	1:BJ:84:LEU:HD12	2.12	0.49
1:BN:29:TYR:HB3	1:BN:41:VAL:CG1	2.42	0.49
1:AL:107:PRO:HG2	1:BP:64:VAL:HG22	1.95	0.49
1:AG:165:GLN:NE2	1:BT:30:ARG:HD2	2.28	0.49
1:BU:123:THR:OG1	1:BU:126:ILE:HG12	2.13	0.49
1:CB:153:ARG:NH1	1:CB:164:PRO:HG3	2.27	0.49
1:AI:57:GLY:O	1:AI:84:LEU:HD12	2.12	0.48
1:AJ:29:TYR:HB3	1:AJ:41:VAL:CG1	2.42	0.48
1:AU:57:GLY:O	1:AU:84:LEU:HD12	2.12	0.48
1:BA:153:ARG:NH1	1:BA:164:PRO:HG3	2.27	0.48
1:BL:157:MET:HE1	1:BN:84:LEU:HD11	1.95	0.48
1:BR:64:VAL:HG22	1:BW:107:PRO:HG2	1.95	0.48
1:AA:56:TYR:OH	1:CD:137:HIS:ND1	2.35	0.48
1:AA:104:TYR:CZ	1:CD:77:PRO:HD3	2.48	0.48
1:AL:57:GLY:O	1:AL:84:LEU:HD12	2.12	0.48
1:AT:123:THR:OG1	1:AT:126:ILE:HG12	2.13	0.48
1:AZ:123:THR:OG1	1:AZ:126:ILE:HG12	2.13	0.48
1:BL:123:THR:OG1	1:BL:126:ILE:HG12	2.13	0.48
1:BK:29:TYR:HB3	1:BK:41:VAL:CG1	2.43	0.48
1:CA:123:THR:OG1	1:CA:126:ILE:HG12	2.13	0.48
1:AH:159:GLN:O	1:BJ:30:ARG:HD2	2.12	0.48
1:AK:123:THR:OG1	1:AK:126:ILE:HG12	2.13	0.48
1:AT:27:LYS:HE2	1:BE:143:ASP:OD2	2.14	0.48
1:AZ:160:GLY:HA3	1:CH:30:ARG:NE	2.29	0.48
1:AT:159:GLN:HB3	1:BG:44:ARG:HB2	1.94	0.48
1:BI:123:THR:OG1	1:BI:126:ILE:HG12	2.13	0.48
1:AI:157:MET:HE2	1:BM:56:TYR:HB3	1.95	0.48
1:AX:128:TYR:OH	1:BY:138:PHE:O	2.28	0.48
1:AC:157:MET:HE3	1:BA:56:TYR:HB3	1.93	0.48
1:BL:105:SER:O	1:BN:65:TYR:OH	2.22	0.48
1:BM:57:GLY:O	1:BM:84:LEU:HD12	2.12	0.48
1:CC:29:TYR:HB3	1:CC:41:VAL:CG1	2.42	0.48
1:AB:123:THR:OG1	1:AB:126:ILE:HG12	2.13	0.48
1:AH:25:TYR:HB3	1:BH:167:LEU:HD11	1.95	0.48
1:AI:153:ARG:NH2	1:BM:56:TYR:CE1	2.81	0.48
1:BR:27:LYS:HD2	1:BW:12:ASN:ND2	2.27	0.48
1:BX:123:THR:OG1	1:BX:126:ILE:HG12	2.13	0.48
1:AN:123:THR:OG1	1:AN:126:ILE:HG12	2.13	0.48
1:BL:77:PRO:HD3	1:BN:104:TYR:CZ	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:56:TYR:HB3	1:BU:157:MET:CE	2.44	0.48
1:AQ:31:VAL:HG23	1:BB:167:LEU:CD2	2.44	0.48
1:AL:12:ASN:ND2	1:BP:27:LYS:HD2	2.27	0.48
1:AG:157:MET:CE	1:BU:56:TYR:HB3	2.44	0.48
1:AG:64:VAL:HG22	1:BU:107:PRO:HG2	1.96	0.48
1:AN:159:GLN:HB3	1:AR:44:ARG:HB2	1.96	0.48
1:AK:159:GLN:HB3	1:AU:44:ARG:HB2	1.96	0.48
1:BC:123:THR:OG1	1:BC:126:ILE:HG12	2.13	0.48
1:BL:163:VAL:HG22	1:BN:39:VAL:HG11	1.95	0.48
1:BO:123:THR:OG1	1:BO:126:ILE:HG12	2.13	0.48
1:AU:135:MET:HB2	1:BV:20:LEU:HD22	1.94	0.48
1:AE:123:THR:OG1	1:AE:126:ILE:HG12	2.13	0.48
1:AQ:123:THR:OG1	1:AQ:126:ILE:HG12	2.13	0.48
1:BD:78:SER:HB3	1:CC:74:TYR:HE2	1.78	0.48
1:BF:123:THR:OG1	1:BF:126:ILE:HG12	2.13	0.48
1:BR:113:ILE:HD12	1:BW:111:HIS:NE2	2.29	0.48
1:AG:123:THR:OG1	1:AG:126:ILE:HG12	2.15	0.47
1:AH:157:MET:CE	1:BH:56:TYR:HB3	2.44	0.47
1:AL:56:TYR:HB3	1:BP:157:MET:HE3	1.94	0.47
1:BI:2:LYS:HE2	1:BQ:102:TYR:CZ	2.48	0.47
1:AI:139:TYR:HE1	1:AI:152:VAL:HG12	1.79	0.47
1:AI:30:ARG:HE	1:BU:160:GLY:HA3	1.79	0.47
1:AK:27:LYS:HD2	1:AS:12:ASN:ND2	2.29	0.47
1:AT:157:MET:CE	1:BE:56:TYR:HB3	2.44	0.47
1:AQ:84:LEU:HD11	1:BB:157:MET:CE	2.43	0.47
1:BD:139:TYR:HE1	1:BD:152:VAL:HG12	1.79	0.47
1:AU:78:SER:HB3	1:BE:74:TYR:HE2	1.78	0.47
1:BN:123:THR:OG1	1:BN:126:ILE:HG12	2.15	0.47
1:BQ:123:THR:OG1	1:BQ:126:ILE:HG12	2.15	0.47
1:AO:139:TYR:HE1	1:AO:152:VAL:HG12	1.80	0.47
1:AP:123:THR:OG1	1:AP:126:ILE:HG12	2.15	0.47
1:AW:27:LYS:HE2	1:AY:143:ASP:OD2	2.15	0.47
1:AH:160:GLY:HA3	1:BJ:30:ARG:HE	1.80	0.47
1:BL:157:MET:CE	1:BN:56:TYR:HB3	2.44	0.47
1:BI:92:TRP:CD1	1:BQ:6:THR:HA	2.50	0.47
1:AA:13:PHE:CD1	1:CD:23:PRO:HA	2.49	0.47
1:CG:123:THR:OG1	1:CG:126:ILE:HG12	2.13	0.47
1:AY:123:THR:OG1	1:AY:126:ILE:HG12	2.15	0.47
1:BK:123:THR:OG1	1:BK:126:ILE:HG12	2.15	0.47
1:BL:111:HIS:NE2	1:BN:113:ILE:HD12	2.30	0.47
1:CF:123:THR:OG1	1:CF:126:ILE:HG12	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:112:VAL:HG22	1:BS:112:VAL:HG22	1.96	0.47
1:BH:123:THR:OG1	1:BH:126:ILE:HG12	2.15	0.47
1:AO:20:LEU:HD22	1:BS:135:MET:HB2	1.96	0.47
1:BZ:29:TYR:HB3	1:BZ:41:VAL:HG13	1.97	0.47
1:AA:113:ILE:HD12	1:CD:111:HIS:NE2	2.29	0.47
1:AA:123:THR:OG1	1:AA:126:ILE:HG12	2.15	0.47
1:AA:29:TYR:HB3	1:AA:41:VAL:HG13	1.97	0.47
1:AH:123:THR:OG1	1:AH:126:ILE:HG12	2.13	0.47
1:AX:58:ILE:HG12	1:BY:162:LEU:HD11	1.96	0.47
1:BI:20:LEU:O	1:BQ:15:ASP:HA	2.15	0.47
1:BM:139:TYR:HE1	1:BM:152:VAL:HG12	1.80	0.47
1:BL:157:MET:HE2	1:BN:56:TYR:HB3	1.96	0.47
1:AO:111:HIS:CE1	1:BS:113:ILE:HD12	2.50	0.47
1:BS:139:TYR:HE1	1:BS:152:VAL:HG12	1.79	0.47
1:AZ:157:MET:HE1	1:CF:84:LEU:HD11	1.96	0.47
1:BG:139:TYR:HE1	1:BG:152:VAL:HG12	1.80	0.47
1:BR:123:THR:OG1	1:BR:126:ILE:HG12	2.13	0.47
1:CB:139:TYR:HE1	1:CB:152:VAL:HG12	1.80	0.47
1:AZ:143:ASP:HB2	1:CF:27:LYS:NZ	2.29	0.47
1:AH:44:ARG:HH22	1:BM:152:VAL:CG2	2.27	0.47
1:AH:84:LEU:HD11	1:BH:157:MET:HE1	1.96	0.47
1:AM:29:TYR:HB3	1:AM:41:VAL:HG13	1.97	0.47
1:AO:113:ILE:HB	1:BS:111:HIS:CE1	2.49	0.47
1:BZ:107:PRO:HG2	1:CG:64:VAL:HG22	1.97	0.47
1:BZ:133:ARG:HG2	1:CG:21:LYS:HE3	1.96	0.47
1:AA:162:LEU:HD21	1:CD:58:ILE:HG23	1.96	0.47
1:AF:139:TYR:HE1	1:AF:152:VAL:HG12	1.80	0.47
1:AB:21:LYS:HE3	1:AM:133:ARG:HG2	1.95	0.47
1:AO:113:ILE:HD12	1:BS:111:HIS:CE1	2.50	0.47
1:AT:92:TRP:HB3	1:BE:4:LEU:HD11	1.97	0.47
1:BB:123:THR:OG1	1:BB:126:ILE:HG12	2.15	0.47
1:AQ:92:TRP:CD1	1:BB:6:THR:HA	2.50	0.47
1:BE:123:THR:OG1	1:BE:126:ILE:HG12	2.15	0.47
1:BG:123:THR:OG1	1:BG:126:ILE:HG12	2.15	0.47
1:BL:75:GLN:HE22	1:BN:102:TYR:HA	1.80	0.47
1:BW:123:THR:OG1	1:BW:126:ILE:HG12	2.15	0.47
1:BW:29:TYR:HB3	1:BW:41:VAL:HG13	1.97	0.47
1:CC:123:THR:OG1	1:CC:126:ILE:HG12	2.15	0.47
1:CH:139:TYR:HE1	1:CH:152:VAL:HG12	1.79	0.47
1:AW:159:GLN:HB3	1:BA:44:ARG:HB2	1.96	0.47
1:AI:143:ASP:CG	1:BM:27:LYS:HE2	2.34	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:56:TYR:HB3	1:BU:157:MET:HE3	1.96	0.47
1:BZ:123:THR:OG1	1:BZ:126:ILE:HG12	2.15	0.47
1:CD:123:THR:OG1	1:CD:126:ILE:HG12	2.13	0.47
1:AA:14:VAL:N	1:CD:22:VAL:O	2.39	0.47
1:CH:123:THR:OG1	1:CH:126:ILE:HG12	2.15	0.47
1:AD:123:THR:OG1	1:AD:126:ILE:HG12	2.15	0.47
1:AG:29:TYR:HB3	1:AG:41:VAL:HG13	1.97	0.47
1:AO:123:THR:OG1	1:AO:126:ILE:HG12	2.15	0.47
1:AR:123:THR:OG1	1:AR:126:ILE:HG12	2.15	0.47
1:AS:123:THR:OG1	1:AS:126:ILE:HG12	2.15	0.47
1:AU:123:THR:OG1	1:AU:126:ILE:HG12	2.15	0.47
1:AF:166:SER:HB2	1:BG:25:TYR:HB2	1.98	0.47
1:BM:123:THR:OG1	1:BM:126:ILE:HG12	2.15	0.47
1:BS:123:THR:OG1	1:BS:126:ILE:HG12	2.15	0.47
1:AE:25:TYR:HB3	1:AV:167:LEU:CD1	2.45	0.46
1:AJ:123:THR:OG1	1:AJ:126:ILE:HG12	2.14	0.46
1:AM:123:THR:OG1	1:AM:126:ILE:HG12	2.15	0.46
1:AR:29:TYR:CD1	1:AR:41:VAL:HG12	2.51	0.46
1:AV:123:THR:OG1	1:AV:126:ILE:HG12	2.15	0.46
1:AV:29:TYR:HB3	1:AV:41:VAL:HG13	1.97	0.46
1:BA:123:THR:OG1	1:BA:126:ILE:HG12	2.15	0.46
1:AF:25:TYR:HB2	1:BG:166:SER:HB2	1.96	0.46
1:BT:123:THR:OG1	1:BT:126:ILE:HG12	2.15	0.46
1:AX:166:SER:HB3	1:BY:26:SER:HB3	1.96	0.46
1:AB:113:ILE:HD12	1:AM:111:HIS:NE2	2.30	0.46
1:AF:29:TYR:CD1	1:AF:41:VAL:HG12	2.51	0.46
1:AU:29:TYR:CD1	1:AU:41:VAL:HG12	2.51	0.46
1:AE:84:LEU:HD11	1:AV:157:MET:HE1	1.97	0.46
1:BJ:123:THR:OG1	1:BJ:126:ILE:HG12	2.15	0.46
1:BL:162:LEU:HD13	1:BN:56:TYR:O	2.15	0.46
1:BN:29:TYR:HB3	1:BN:41:VAL:HG13	1.97	0.46
1:BV:123:THR:OG1	1:BV:126:ILE:HG12	2.15	0.46
1:BV:139:TYR:HE1	1:BV:152:VAL:HG12	1.80	0.46
1:AB:159:GLN:HB3	1:AO:44:ARG:HB2	1.98	0.46
1:AC:123:THR:OG1	1:AC:126:ILE:HG12	2.15	0.46
1:AI:143:ASP:OD2	1:BM:27:LYS:CE	2.60	0.46
1:AB:92:TRP:HB3	1:AM:4:LEU:HD11	1.96	0.46
1:AF:84:LEU:HD11	1:BG:157:MET:CE	2.44	0.46
1:BQ:29:TYR:HB3	1:BQ:41:VAL:HG13	1.97	0.46
1:BY:123:THR:OG1	1:BY:126:ILE:HG12	2.15	0.46
1:AA:31:VAL:CG2	1:CD:167:LEU:HD13	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AZ:111:HIS:NE2	1:CF:113:ILE:HD12	2.30	0.46
1:AI:29:TYR:CD1	1:AI:41:VAL:HG12	2.51	0.46
1:AX:139:TYR:HE1	1:AX:152:VAL:HG12	1.80	0.46
1:BG:29:TYR:CD1	1:BG:41:VAL:HG12	2.51	0.46
1:BH:29:TYR:HB3	1:BH:41:VAL:HG13	1.97	0.46
1:CB:123:THR:OG1	1:CB:126:ILE:HG12	2.15	0.46
1:BZ:76:SER:HB2	1:CG:104:TYR:CD2	2.50	0.46
1:AC:29:TYR:CD1	1:AC:41:VAL:HG12	2.51	0.46
1:AP:29:TYR:HB3	1:AP:41:VAL:HG13	1.97	0.46
1:AY:29:TYR:HB3	1:AY:41:VAL:HG13	1.97	0.46
1:AQ:46:GLN:NE2	1:BB:7:ASN:HB3	2.31	0.46
1:BD:29:TYR:CD1	1:BD:41:VAL:HG12	2.50	0.46
1:AU:56:TYR:HB3	1:BV:157:MET:CE	2.45	0.46
1:AU:157:MET:HE1	1:BV:84:LEU:HD11	1.97	0.46
1:BY:29:TYR:CD1	1:BY:41:VAL:HG12	2.51	0.46
1:CB:29:TYR:CD1	1:CB:41:VAL:HG12	2.51	0.46
1:AO:29:TYR:CD1	1:AO:41:VAL:HG12	2.51	0.46
1:AT:119:ASP:OD2	1:BE:104:TYR:OH	2.22	0.46
1:AX:29:TYR:CD1	1:AX:41:VAL:HG12	2.51	0.46
1:BB:29:TYR:HB3	1:BB:41:VAL:HG13	1.97	0.46
1:AT:159:GLN:O	1:BG:30:ARG:HD2	2.16	0.46
1:BK:29:TYR:HB3	1:BK:41:VAL:HG13	1.97	0.46
1:BP:29:TYR:CD1	1:BP:41:VAL:HG12	2.51	0.46
1:CC:29:TYR:HB3	1:CC:41:VAL:HG13	1.97	0.46
1:CE:123:THR:OG1	1:CE:126:ILE:HG12	2.15	0.46
1:AL:84:LEU:HD11	1:BP:157:MET:HE1	1.96	0.46
1:AW:30:ARG:NH1	1:BY:165:GLN:NE2	2.63	0.46
1:BM:29:TYR:CD1	1:BM:41:VAL:HG12	2.51	0.46
1:BP:123:THR:OG1	1:BP:126:ILE:HG12	2.15	0.46
1:BT:56:TYR:HB3	1:BX:157:MET:CE	2.46	0.46
1:AD:64:VAL:HG22	1:CA:107:PRO:HG2	1.98	0.46
1:AF:65:TYR:CE1	1:BG:107:PRO:HD3	2.51	0.46
1:AI:123:THR:OG1	1:AI:126:ILE:HG12	2.15	0.46
1:AX:123:THR:OG1	1:AX:126:ILE:HG12	2.15	0.46
1:BD:123:THR:OG1	1:BD:126:ILE:HG12	2.15	0.46
1:BE:29:TYR:HB3	1:BE:41:VAL:HG13	1.97	0.46
1:BP:139:TYR:HE1	1:BP:152:VAL:HG12	1.80	0.46
1:BS:78:SER:HB3	1:BW:74:TYR:HE2	1.81	0.46
1:AG:84:LEU:HD11	1:BU:157:MET:HE1	1.98	0.46
1:BR:77:PRO:HD3	1:BW:104:TYR:CZ	2.50	0.46
1:AF:123:THR:OG1	1:AF:126:ILE:HG12	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:29:TYR:HB3	1:AJ:41:VAL:HG13	1.97	0.46
1:BJ:29:TYR:CD1	1:BJ:41:VAL:HG12	2.51	0.46
1:BT:27:LYS:HD3	1:BX:12:ASN:ND2	2.30	0.46
1:BV:29:TYR:CD1	1:BV:41:VAL:HG12	2.51	0.46
1:AX:154:LEU:HD21	1:BY:127:LEU:HB3	1.98	0.46
1:AX:92:TRP:CD1	1:BY:6:THR:HA	2.50	0.46
1:CE:29:TYR:CD1	1:CE:41:VAL:HG12	2.51	0.46
1:CH:29:TYR:CD1	1:CH:41:VAL:HG12	2.51	0.46
1:AL:29:TYR:CD1	1:AL:41:VAL:HG12	2.51	0.46
1:AM:33:GLN:HG3	1:AN:36:PRO:HB3	1.98	0.46
1:AU:139:TYR:HE1	1:AU:152:VAL:HG12	1.80	0.46
1:AY:33:GLN:HG3	1:AZ:36:PRO:HB3	1.98	0.46
1:BC:155:LYS:HB2	1:CC:124:GLU:CD	2.36	0.46
1:AT:56:TYR:CD1	1:BE:157:MET:HE3	2.51	0.46
1:BN:33:GLN:HG3	1:BO:36:PRO:HB3	1.98	0.46
1:BT:76:SER:HB2	1:BX:104:TYR:CD2	2.51	0.46
1:BB:33:GLN:HG3	1:BC:36:PRO:HB3	1.98	0.45
1:BT:33:GLN:HG3	1:BU:36:PRO:HB3	1.98	0.45
1:BR:56:TYR:O	1:BW:162:LEU:HD13	2.16	0.45
1:CE:139:TYR:HE1	1:CE:152:VAL:HG12	1.80	0.45
1:CF:29:TYR:HB3	1:CF:41:VAL:HG13	1.97	0.45
1:AC:56:TYR:HB3	1:BA:157:MET:HE3	1.99	0.45
1:AD:29:TYR:HB3	1:AD:41:VAL:HG13	1.97	0.45
1:AI:112:VAL:HG22	1:BM:112:VAL:HG22	1.97	0.45
1:AV:33:GLN:HG3	1:AW:36:PRO:HB3	1.98	0.45
1:AW:18:PHE:O	1:AY:18:PHE:HB3	2.17	0.45
1:AF:157:MET:CE	1:BG:84:LEU:HD11	2.46	0.45
1:BL:158:LEU:CD2	1:BN:84:LEU:HB2	2.46	0.45
1:BT:29:TYR:HB3	1:BT:41:VAL:HG13	1.97	0.45
1:AG:111:HIS:NE2	1:BU:113:ILE:HD12	2.31	0.45
1:BY:139:TYR:HE1	1:BY:152:VAL:HG12	1.79	0.45
1:AC:56:TYR:HB3	1:BA:157:MET:HE2	1.98	0.45
1:AG:33:GLN:HG3	1:AH:36:PRO:HB3	1.98	0.45
1:AJ:63:ASP:HB3	1:AJ:66:ARG:HB2	1.99	0.45
1:AC:18:PHE:O	1:BA:18:PHE:HB3	2.17	0.45
1:BA:29:TYR:CD1	1:BA:41:VAL:HG12	2.51	0.45
1:BJ:139:TYR:HE1	1:BJ:152:VAL:HG12	1.80	0.45
1:BL:160:GLY:HA3	1:BP:30:ARG:HE	1.82	0.45
1:BT:157:MET:HE2	1:BX:56:TYR:HB3	1.99	0.45
1:BC:104:TYR:CD2	1:CC:76:SER:HB2	2.52	0.45
1:AC:105:SER:O	1:BA:65:TYR:OH	2.28	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AU:65:TYR:CE1	1:BV:107:PRO:HD3	2.51	0.45
1:BH:63:ASP:HB3	1:BH:66:ARG:HB2	1.99	0.45
1:BQ:33:GLN:HG3	1:BR:36:PRO:HB3	1.98	0.45
1:AD:113:ILE:HD12	1:CA:111:HIS:NE2	2.31	0.45
1:AE:111:HIS:NE2	1:AV:113:ILE:HD12	2.31	0.45
1:AL:139:TYR:HE1	1:AL:152:VAL:HG12	1.80	0.45
1:BS:29:TYR:CD1	1:BS:41:VAL:HG12	2.51	0.45
1:BW:63:ASP:HB3	1:BW:66:ARG:HB2	1.99	0.45
1:BC:75:GLN:NE2	1:CC:103:GLY:H	2.15	0.45
1:AA:63:ASP:HB3	1:AA:66:ARG:HB2	1.99	0.45
1:AG:63:ASP:HB3	1:AG:66:ARG:HB2	1.99	0.45
1:AP:33:GLN:HG3	1:AQ:36:PRO:HB3	1.98	0.45
1:BQ:63:ASP:HB3	1:BQ:66:ARG:HB2	1.99	0.45
1:CF:63:ASP:HB3	1:CF:66:ARG:HB2	1.99	0.45
1:AD:63:ASP:HB3	1:AD:66:ARG:HB2	1.99	0.45
1:BR:159:GLN:HB3	1:BY:44:ARG:HB2	1.99	0.45
1:AA:10:ASN:O	1:CD:45:GLN:HG3	2.15	0.45
1:AC:119:ASP:OD1	1:BA:104:TYR:OH	2.22	0.45
1:AC:139:TYR:HE1	1:AC:152:VAL:HG12	1.79	0.45
1:AH:137:HIS:ND1	1:BH:56:TYR:OH	2.44	0.45
1:AJ:33:GLN:HG3	1:AK:36:PRO:HB3	1.98	0.45
1:AP:63:ASP:HB3	1:AP:66:ARG:HB2	1.99	0.45
1:AK:155:LYS:HB2	1:AS:124:GLU:CD	2.36	0.45
1:BE:33:GLN:HG3	1:BF:36:PRO:HB3	1.98	0.45
1:BL:105:SER:HB2	1:BN:70:ILE:HG21	1.99	0.45
1:AB:154:LEU:HD21	1:AM:127:LEU:HB3	1.98	0.45
1:AK:25:TYR:HB3	1:AS:167:LEU:CD1	2.46	0.45
1:AN:157:MET:HE1	1:AP:84:LEU:HD11	1.99	0.45
1:AQ:135:MET:HB2	1:BB:20:LEU:HD22	1.99	0.45
1:AS:29:TYR:HB3	1:AS:41:VAL:HG13	1.97	0.45
1:AP:30:ARG:HD2	1:BB:165:GLN:NE2	2.32	0.45
1:AH:157:MET:HE3	1:BH:56:TYR:HB3	1.98	0.45
1:AH:2:LYS:HE2	1:BH:102:TYR:CE2	2.53	0.44
1:AL:123:THR:OG1	1:AL:126:ILE:HG12	2.15	0.44
1:AN:84:LEU:HD11	1:AP:157:MET:HE1	1.99	0.44
1:BA:139:TYR:HE1	1:BA:152:VAL:HG12	1.80	0.44
1:BM:32:THR:HB	1:BM:40:VAL:HG12	1.99	0.44
1:BQ:57:GLY:O	1:BQ:84:LEU:HD12	2.18	0.44
1:AU:88:VAL:HG21	1:BV:134:LEU:HA	1.99	0.44
1:AX:111:HIS:NE2	1:BY:113:ILE:HD12	2.32	0.44
1:AA:101:THR:HB	1:AM:102:TYR:CD1	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:33:GLN:HG3	1:AE:36:PRO:HB3	1.98	0.44
1:AN:27:LYS:HD2	1:AP:12:ASN:ND2	2.32	0.44
1:AK:92:TRP:CD1	1:AS:6:THR:HA	2.52	0.44
1:AT:162:LEU:HD13	1:BE:56:TYR:O	2.17	0.44
1:BG:32:THR:HB	1:BG:40:VAL:HG12	1.99	0.44
1:BH:57:GLY:O	1:BH:84:LEU:HD12	2.18	0.44
1:BV:32:THR:HB	1:BV:40:VAL:HG12	1.99	0.44
1:BW:139:TYR:HE1	1:BW:152:VAL:HG12	1.83	0.44
1:BZ:57:GLY:O	1:BZ:84:LEU:HD12	2.18	0.44
1:AA:139:TYR:HE1	1:AA:152:VAL:HG12	1.83	0.44
1:AA:33:GLN:HG3	1:AB:36:PRO:HB3	1.98	0.44
1:AD:57:GLY:O	1:AD:84:LEU:HD12	2.18	0.44
1:AH:33:GLN:HB3	1:AH:40:VAL:HB	2.00	0.44
1:AT:157:MET:HE2	1:BE:56:TYR:HB3	1.99	0.44
1:AY:32:THR:HB	1:AY:40:VAL:HG12	2.00	0.44
1:AC:111:HIS:CE1	1:BA:113:ILE:HD12	2.52	0.44
1:AI:104:TYR:CD2	1:BM:76:SER:HB3	2.51	0.44
1:BN:57:GLY:O	1:BN:84:LEU:HD12	2.18	0.44
1:AO:12:ASN:ND2	1:BS:27:LYS:HD2	2.32	0.44
1:BT:139:TYR:HE1	1:BT:152:VAL:HG12	1.83	0.44
1:BT:57:GLY:O	1:BT:84:LEU:HD12	2.18	0.44
1:BT:63:ASP:HB3	1:BT:66:ARG:HB2	1.99	0.44
1:BU:33:GLN:HB3	1:BU:40:VAL:HB	2.00	0.44
1:CF:139:TYR:HE1	1:CF:152:VAL:HG12	1.83	0.44
1:AG:32:THR:HB	1:AG:40:VAL:HG12	2.00	0.44
1:AK:33:GLN:HB3	1:AK:40:VAL:HB	2.00	0.44
1:AL:61:ILE:HD11	1:AL:83:SER:HB2	2.00	0.44
1:AR:139:TYR:HE1	1:AR:152:VAL:HG12	1.80	0.44
1:AK:20:LEU:O	1:AS:15:ASP:HA	2.17	0.44
1:AK:46:GLN:HE22	1:AS:7:ASN:HB3	1.82	0.44
1:AS:33:GLN:HG3	1:AT:36:PRO:HB3	1.98	0.44
1:AX:61:ILE:HD11	1:AX:83:SER:HB2	2.00	0.44
1:BC:119:ASP:OD2	1:CC:104:TYR:OH	2.31	0.44
1:AF:111:HIS:NE2	1:BG:113:ILE:HD12	2.32	0.44
1:BL:56:TYR:O	1:BN:162:LEU:HD13	2.17	0.44
1:BN:63:ASP:HB3	1:BN:66:ARG:HB2	1.99	0.44
1:BP:32:THR:HB	1:BP:40:VAL:HG12	1.99	0.44
1:BX:33:GLN:HB3	1:BX:40:VAL:HB	2.00	0.44
1:CC:63:ASP:HB3	1:CC:66:ARG:HB2	1.99	0.44
1:CG:33:GLN:HB3	1:CG:40:VAL:HB	2.00	0.44
1:AC:32:THR:HB	1:AC:40:VAL:HG12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AV:139:TYR:HE1	1:AV:152:VAL:HG12	1.83	0.44
1:BB:63:ASP:HB3	1:BB:66:ARG:HB2	1.99	0.44
1:BC:33:GLN:HB3	1:BC:40:VAL:HB	2.00	0.44
1:BF:33:GLN:HB3	1:BF:40:VAL:HB	2.00	0.44
1:AF:113:ILE:HD12	1:BG:111:HIS:NE2	2.32	0.44
1:BK:63:ASP:HB3	1:BK:66:ARG:HB2	1.99	0.44
1:BM:78:SER:HA	1:BN:71:ASP:OD2	2.17	0.44
1:BS:61:ILE:HD11	1:BS:83:SER:HB2	2.00	0.44
1:CF:57:GLY:O	1:CF:84:LEU:HD12	2.18	0.44
1:AB:33:GLN:HB3	1:AB:40:VAL:HB	2.00	0.44
1:AK:84:LEU:HD11	1:AS:157:MET:CE	2.47	0.44
1:AP:139:TYR:HE1	1:AP:152:VAL:HG12	1.83	0.44
1:AW:33:GLN:HB3	1:AW:40:VAL:HB	2.00	0.44
1:AY:57:GLY:O	1:AY:84:LEU:HD12	2.18	0.44
1:AZ:33:GLN:HB3	1:AZ:40:VAL:HB	1.99	0.44
1:BE:32:THR:HB	1:BE:40:VAL:HG12	2.00	0.44
1:AT:158:LEU:CD2	1:BE:84:LEU:HB2	2.48	0.44
1:BR:33:GLN:HB3	1:BR:40:VAL:HB	2.00	0.44
1:BT:32:THR:HB	1:BT:40:VAL:HG12	2.00	0.44
1:AC:61:ILE:HD11	1:AC:83:SER:HB2	2.00	0.44
1:AF:61:ILE:HD11	1:AF:83:SER:HB2	2.00	0.44
1:AI:32:THR:HB	1:AI:40:VAL:HG12	1.99	0.44
1:AJ:32:THR:HB	1:AJ:40:VAL:HG12	2.00	0.44
1:AR:32:THR:HB	1:AR:40:VAL:HG12	1.99	0.44
1:AE:107:PRO:HG2	1:AV:64:VAL:HG22	1.99	0.44
1:AQ:56:TYR:HB3	1:BB:157:MET:HE3	1.98	0.44
1:BH:139:TYR:HE1	1:BH:152:VAL:HG12	1.83	0.44
1:BK:33:GLN:HG3	1:BL:36:PRO:HB3	1.98	0.44
1:AI:88:VAL:HG21	1:BM:134:LEU:HA	2.00	0.44
1:BV:61:ILE:HD11	1:BV:83:SER:HB2	2.00	0.44
1:BZ:33:GLN:HG3	1:CA:36:PRO:HB3	1.98	0.44
1:AD:32:THR:HB	1:AD:40:VAL:HG12	2.00	0.44
1:AL:65:TYR:CE1	1:BP:107:PRO:HD3	2.53	0.44
1:AN:77:PRO:HD3	1:AP:104:TYR:CZ	2.53	0.44
1:AX:32:THR:HB	1:AX:40:VAL:HG12	1.99	0.44
1:BI:33:GLN:HB3	1:BI:40:VAL:HB	2.00	0.44
1:BH:33:GLN:HG3	1:BI:36:PRO:HB3	1.98	0.44
1:AL:135:MET:HB2	1:BP:20:LEU:HD22	2.00	0.44
1:CA:33:GLN:HB3	1:CA:40:VAL:HB	2.00	0.44
1:CC:57:GLY:O	1:CC:84:LEU:HD12	2.18	0.44
1:AA:27:LYS:HZ1	1:CD:143:ASP:CB	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CD:33:GLN:HB3	1:CD:40:VAL:HB	2.00	0.44
1:CB:30:ARG:HD2	1:CG:159:GLN:O	2.18	0.44
1:AF:107:PRO:HD3	1:BG:65:TYR:CE1	2.53	0.44
1:AJ:139:TYR:HE1	1:AJ:152:VAL:HG12	1.83	0.44
1:AO:32:THR:HB	1:AO:40:VAL:HG12	1.99	0.44
1:AO:61:ILE:HD11	1:AO:83:SER:HB2	2.00	0.44
1:BI:157:MET:HE1	1:BQ:84:LEU:HD11	2.00	0.44
1:BL:84:LEU:HD11	1:BN:157:MET:HE1	2.00	0.44
1:BQ:32:THR:HB	1:BQ:40:VAL:HG12	2.00	0.44
1:BZ:63:ASP:HB3	1:BZ:66:ARG:HB2	1.99	0.44
1:CH:32:THR:HB	1:CH:40:VAL:HG12	1.99	0.44
1:CH:61:ILE:HD11	1:CH:83:SER:HB2	2.00	0.44
1:AM:57:GLY:O	1:AM:84:LEU:HD12	2.18	0.43
1:AO:111:HIS:CE1	1:BS:113:ILE:HB	2.53	0.43
1:AP:32:THR:HB	1:AP:40:VAL:HG12	2.00	0.43
1:AP:57:GLY:O	1:AP:84:LEU:HD12	2.18	0.43
1:AT:84:LEU:O	1:AT:113:ILE:HA	2.18	0.43
1:AV:57:GLY:O	1:AV:84:LEU:HD12	2.18	0.43
1:BC:25:TYR:HB2	1:CC:166:SER:HB2	1.99	0.43
1:BT:27:LYS:NZ	1:BX:143:ASP:HB2	2.33	0.43
1:BY:32:THR:HB	1:BY:40:VAL:HG12	1.99	0.43
1:CC:33:GLN:HG3	1:CD:36:PRO:HB3	1.98	0.43
1:CD:84:LEU:O	1:CD:113:ILE:HA	2.18	0.43
1:CF:32:THR:HB	1:CF:40:VAL:HG12	2.00	0.43
1:AB:84:LEU:O	1:AB:113:ILE:HA	2.18	0.43
1:AS:114:VAL:HG12	1:AS:116:VAL:HG23	2.01	0.43
1:AS:57:GLY:O	1:AS:84:LEU:HD12	2.18	0.43
1:AV:114:VAL:HG12	1:AV:116:VAL:HG23	2.01	0.43
1:BB:57:GLY:O	1:BB:84:LEU:HD12	2.18	0.43
1:BD:78:SER:HA	1:CC:71:ASP:OD2	2.17	0.43
1:BL:75:GLN:NE2	1:BN:103:GLY:H	2.16	0.43
1:BM:61:ILE:HD11	1:BM:83:SER:HB2	2.00	0.43
1:BS:32:THR:HB	1:BS:40:VAL:HG12	1.99	0.43
1:BW:57:GLY:O	1:BW:84:LEU:HD12	2.18	0.43
1:CB:32:THR:HB	1:CB:40:VAL:HG12	1.99	0.43
1:CB:61:ILE:HD11	1:CB:83:SER:HB2	2.00	0.43
1:CC:32:THR:HB	1:CC:40:VAL:HG12	2.00	0.43
1:CE:32:THR:HB	1:CE:40:VAL:HG12	1.99	0.43
1:AE:84:LEU:O	1:AE:113:ILE:HA	2.18	0.43
1:AE:33:GLN:HB3	1:AE:40:VAL:HB	1.99	0.43
1:AF:32:THR:HB	1:AF:40:VAL:HG12	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:114:VAL:HG12	1:AG:116:VAL:HG23	2.01	0.43
1:AI:14:VAL:O	1:BM:22:VAL:HB	2.18	0.43
1:AM:63:ASP:HB3	1:AM:66:ARG:HB2	1.99	0.43
1:AS:139:TYR:HE1	1:AS:152:VAL:HG12	1.83	0.43
1:AW:84:LEU:O	1:AW:113:ILE:HA	2.19	0.43
1:AY:139:TYR:HE1	1:AY:152:VAL:HG12	1.83	0.43
1:AC:113:ILE:HD12	1:BA:111:HIS:CE1	2.53	0.43
1:BD:61:ILE:HD11	1:BD:83:SER:HB2	2.00	0.43
1:BJ:32:THR:HB	1:BJ:40:VAL:HG12	1.99	0.43
1:BK:32:THR:HB	1:BK:40:VAL:HG12	2.00	0.43
1:BL:158:LEU:HD23	1:BN:84:LEU:HB2	1.99	0.43
1:AI:107:PRO:HD3	1:BM:65:TYR:CE1	2.53	0.43
1:BN:114:VAL:HG12	1:BN:116:VAL:HG23	2.00	0.43
1:BO:84:LEU:O	1:BO:113:ILE:HA	2.18	0.43
1:AL:152:VAL:HG23	1:BO:44:ARG:HH22	1.82	0.43
1:AX:157:MET:CE	1:BY:84:LEU:HD11	2.49	0.43
1:AF:166:SER:HB3	1:BG:26:SER:HB3	2.00	0.43
1:AH:84:LEU:O	1:AH:113:ILE:HA	2.18	0.43
1:AI:61:ILE:HD11	1:AI:83:SER:HB2	2.00	0.43
1:AS:63:ASP:HB3	1:AS:66:ARG:HB2	1.99	0.43
1:AT:33:GLN:HB3	1:AT:40:VAL:HB	2.00	0.43
1:AU:32:THR:HB	1:AU:40:VAL:HG12	1.99	0.43
1:AZ:140:GLU:OE2	1:AZ:165:GLN:N	2.50	0.43
1:AQ:143:ASP:HB2	1:BB:27:LYS:HZ1	1.83	0.43
1:BI:134:LEU:HD21	1:BQ:112:VAL:HG23	2.00	0.43
1:BI:84:LEU:O	1:BI:113:ILE:HA	2.18	0.43
1:BL:84:LEU:O	1:BL:113:ILE:HA	2.19	0.43
1:BL:92:TRP:HB3	1:BN:4:LEU:HD11	1.99	0.43
1:BR:157:MET:HE3	1:BW:56:TYR:CD1	2.54	0.43
1:BY:61:ILE:HD11	1:BY:83:SER:HB2	2.00	0.43
1:BZ:32:THR:HB	1:BZ:40:VAL:HG12	2.00	0.43
1:CF:33:GLN:HG3	1:CG:36:PRO:HB3	1.98	0.43
1:AJ:114:VAL:HG12	1:AJ:116:VAL:HG23	2.01	0.43
1:AK:84:LEU:O	1:AK:113:ILE:HA	2.18	0.43
1:AV:32:THR:HB	1:AV:40:VAL:HG12	2.00	0.43
1:AY:63:ASP:HB3	1:AY:66:ARG:HB2	1.99	0.43
1:AC:153:ARG:NH2	1:BA:56:TYR:CE1	2.86	0.43
1:BB:32:THR:HB	1:BB:40:VAL:HG12	2.00	0.43
1:BK:114:VAL:HG12	1:BK:116:VAL:HG23	2.01	0.43
1:BL:75:GLN:NE2	1:BN:102:TYR:HA	2.32	0.43
1:BX:84:LEU:O	1:BX:113:ILE:HA	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:32:THR:HB	1:AL:40:VAL:HG12	1.99	0.43
1:AO:157:MET:HE1	1:BS:84:LEU:HD11	2.00	0.43
1:AS:32:THR:HB	1:AS:40:VAL:HG12	2.00	0.43
1:AV:63:ASP:HB3	1:AV:66:ARG:HB2	1.99	0.43
1:BB:114:VAL:HG12	1:BB:116:VAL:HG23	2.01	0.43
1:BE:63:ASP:HB3	1:BE:66:ARG:HB2	1.99	0.43
1:BN:32:THR:HB	1:BN:40:VAL:HG12	2.00	0.43
1:BR:84:LEU:O	1:BR:113:ILE:HA	2.18	0.43
1:AU:157:MET:HE3	1:BV:56:TYR:HB3	1.99	0.43
1:BT:104:TYR:OH	1:BX:119:ASP:OD2	2.24	0.43
1:BW:33:GLN:HG3	1:BX:36:PRO:HB3	1.98	0.43
1:BA:32:THR:HB	1:BA:40:VAL:HG12	1.99	0.43
1:BC:140:GLU:OE2	1:BC:165:GLN:N	2.50	0.43
1:BD:32:THR:HB	1:BD:40:VAL:HG12	1.99	0.43
1:BH:114:VAL:HG12	1:BH:116:VAL:HG23	2.01	0.43
1:BO:33:GLN:HB3	1:BO:40:VAL:HB	2.00	0.43
1:BT:114:VAL:HG12	1:BT:116:VAL:HG23	2.01	0.43
1:AU:58:ILE:HG12	1:BV:162:LEU:HD11	2.00	0.43
1:BW:114:VAL:HG12	1:BW:116:VAL:HG23	2.01	0.43
1:AE:143:ASP:HB2	1:AV:27:LYS:NZ	2.34	0.43
1:AU:61:ILE:HD11	1:AU:83:SER:HB2	2.00	0.43
1:AT:56:TYR:O	1:BE:162:LEU:HD13	2.18	0.43
1:BF:84:LEU:O	1:BF:113:ILE:HA	2.18	0.43
1:BK:57:GLY:O	1:BK:84:LEU:HD12	2.18	0.43
1:BW:32:THR:HB	1:BW:40:VAL:HG12	2.00	0.43
1:AA:32:THR:HB	1:AA:40:VAL:HG12	2.00	0.43
1:AA:57:GLY:O	1:AA:84:LEU:HD12	2.18	0.43
1:AG:57:GLY:O	1:AG:84:LEU:HD12	2.18	0.43
1:AO:157:MET:HE3	1:BS:56:TYR:HB3	2.01	0.43
1:AQ:111:HIS:NE2	1:BB:113:ILE:HD12	2.33	0.43
1:BC:84:LEU:O	1:BC:113:ILE:HA	2.19	0.43
1:BG:61:ILE:HD11	1:BG:83:SER:HB2	2.00	0.43
1:BL:157:MET:HE3	1:BN:56:TYR:CD1	2.54	0.43
1:BL:33:GLN:HB3	1:BL:40:VAL:HB	2.00	0.43
1:BP:82:THR:HG23	1:BP:118:GLN:HE21	1.84	0.43
1:BT:103:GLY:H	1:BX:75:GLN:NE2	2.16	0.43
1:BU:84:LEU:O	1:BU:113:ILE:HA	2.19	0.43
1:BY:82:THR:HG23	1:BY:118:GLN:HE21	1.84	0.43
1:AA:13:PHE:HD1	1:CD:23:PRO:HA	1.84	0.43
1:AD:139:TYR:HE1	1:AD:152:VAL:HG12	1.83	0.43
1:AM:139:TYR:HE1	1:AM:152:VAL:HG12	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AQ:84:LEU:O	1:AQ:113:ILE:HA	2.18	0.43
1:AQ:33:GLN:HB3	1:AQ:40:VAL:HB	1.99	0.43
1:AZ:84:LEU:O	1:AZ:113:ILE:HA	2.18	0.43
1:AQ:25:TYR:HB2	1:BB:166:SER:HB2	2.00	0.43
1:BE:57:GLY:O	1:BE:84:LEU:HD12	2.18	0.43
1:BH:32:THR:HB	1:BH:40:VAL:HG12	2.00	0.43
1:BM:82:THR:HG23	1:BM:118:GLN:HE21	1.84	0.43
1:AG:157:MET:CE	1:BU:84:LEU:HD11	2.49	0.43
1:AX:113:ILE:HD12	1:BY:111:HIS:NE2	2.33	0.43
1:CE:61:ILE:HD11	1:CE:83:SER:HB2	2.00	0.43
1:AE:113:ILE:HD12	1:AV:111:HIS:NE2	2.33	0.42
1:AF:82:THR:HG23	1:AF:118:GLN:HE21	1.84	0.42
1:AI:82:THR:HG23	1:AI:118:GLN:HE21	1.84	0.42
1:AM:32:THR:HB	1:AM:40:VAL:HG12	2.00	0.42
1:AQ:58:ILE:HG23	1:BB:162:LEU:HD21	2.01	0.42
1:BK:139:TYR:HE1	1:BK:152:VAL:HG12	1.83	0.42
1:CC:139:TYR:HE1	1:CC:152:VAL:HG12	1.83	0.42
1:AA:165:GLN:OE1	1:CC:30:ARG:HD2	2.19	0.42
1:CE:82:THR:HG23	1:CE:118:GLN:HE21	1.84	0.42
1:AI:56:TYR:HB3	1:BM:157:MET:HE2	2.00	0.42
1:AI:64:VAL:HG22	1:BM:107:PRO:HG2	2.01	0.42
1:AJ:57:GLY:O	1:AJ:84:LEU:HD12	2.18	0.42
1:AL:82:THR:HG23	1:AL:118:GLN:HE21	1.84	0.42
1:AR:61:ILE:HD11	1:AR:83:SER:HB2	2.00	0.42
1:BV:30:ARG:HD2	1:BX:159:GLN:O	2.19	0.42
1:BZ:139:TYR:HE1	1:BZ:152:VAL:HG12	1.83	0.42
1:CG:140:GLU:OE2	1:CG:165:GLN:N	2.50	0.42
1:BR:92:TRP:HB3	1:BW:4:LEU:HD11	2.01	0.42
1:AW:44:ARG:NH1	1:BY:156:ASP:CG	2.73	0.42
1:BZ:56:TYR:CD1	1:CG:157:MET:HE3	2.55	0.42
1:AA:112:VAL:HG23	1:CD:134:LEU:HD21	2.01	0.42
1:AA:13:PHE:HA	1:CD:22:VAL:O	2.20	0.42
1:AC:82:THR:HG23	1:AC:118:GLN:HE21	1.84	0.42
1:AN:33:GLN:HB3	1:AN:40:VAL:HB	2.00	0.42
1:AX:82:THR:HG23	1:AX:118:GLN:HE21	1.84	0.42
1:AH:21:LYS:HE3	1:BH:133:ARG:HG2	2.02	0.42
1:BI:140:GLU:OE2	1:BI:165:GLN:N	2.50	0.42
1:BJ:61:ILE:HD11	1:BJ:83:SER:HB2	2.00	0.42
1:BU:140:GLU:OE2	1:BU:165:GLN:N	2.50	0.42
1:CA:84:LEU:O	1:CA:113:ILE:HA	2.19	0.42
1:CF:114:VAL:HG12	1:CF:116:VAL:HG23	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BZ:74:TYR:CE2	1:CH:78:SER:HB3	2.49	0.42
1:AA:114:VAL:HG12	1:AA:116:VAL:HG23	2.01	0.42
1:AG:102:TYR:CZ	1:BU:2:LYS:HE2	2.55	0.42
1:AN:84:LEU:O	1:AN:113:ILE:HA	2.19	0.42
1:AX:107:PRO:HD3	1:BY:65:TYR:CE1	2.54	0.42
1:AZ:157:MET:CE	1:CF:56:TYR:HB3	2.49	0.42
1:BA:61:ILE:HD11	1:BA:83:SER:HB2	2.00	0.42
1:AG:30:ARG:HD2	1:BH:165:GLN:NE2	2.34	0.42
1:BJ:82:THR:HG23	1:BJ:118:GLN:HE21	1.84	0.42
1:BP:61:ILE:HD11	1:BP:83:SER:HB2	2.00	0.42
1:CH:82:THR:HG23	1:CH:118:GLN:HE21	1.84	0.42
1:AD:114:VAL:HG12	1:AD:116:VAL:HG23	2.01	0.42
1:AO:82:THR:HG23	1:AO:118:GLN:HE21	1.84	0.42
1:BA:82:THR:HG23	1:BA:118:GLN:HE21	1.84	0.42
1:BE:114:VAL:HG12	1:BE:116:VAL:HG23	2.01	0.42
1:BE:139:TYR:HE1	1:BE:152:VAL:HG12	1.83	0.42
1:BR:119:ASP:OD2	1:BW:104:TYR:OH	2.27	0.42
1:BI:159:GLN:HB3	1:BS:44:ARG:HB2	2.02	0.42
1:AA:27:LYS:HD3	1:CD:12:ASN:ND2	2.35	0.42
1:AM:114:VAL:HG12	1:AM:116:VAL:HG23	2.01	0.42
1:AQ:20:LEU:O	1:BB:15:ASP:HA	2.20	0.42
1:BB:139:TYR:HE1	1:BB:152:VAL:HG12	1.83	0.42
1:AT:18:PHE:O	1:BE:18:PHE:HB3	2.19	0.42
1:BN:139:TYR:HE1	1:BN:152:VAL:HG12	1.83	0.42
1:AL:157:MET:CE	1:BP:56:TYR:HB3	2.50	0.42
1:AL:78:SER:HB3	1:AS:74:TYR:CE2	2.44	0.42
1:AY:114:VAL:HG12	1:AY:116:VAL:HG23	2.01	0.42
1:AH:25:TYR:HB2	1:BH:166:SER:HB2	2.01	0.42
1:BL:22:VAL:O	1:BN:13:PHE:HA	2.20	0.42
1:AK:44:ARG:HH22	1:BP:152:VAL:HG23	1.85	0.42
1:BS:82:THR:HG23	1:BS:118:GLN:HE21	1.84	0.42
1:AD:111:HIS:NE2	1:CA:113:ILE:HD12	2.35	0.42
1:CC:114:VAL:HG12	1:CC:116:VAL:HG23	2.01	0.42
1:AG:137:HIS:ND1	1:BU:56:TYR:OH	2.45	0.42
1:AW:44:ARG:HH22	1:BY:152:VAL:HG23	1.84	0.42
1:BZ:166:SER:HB2	1:CG:25:TYR:HB2	2.02	0.42
1:CB:82:THR:HG23	1:CB:118:GLN:HE21	1.84	0.42
1:AF:26:SER:HB3	1:BG:166:SER:HB3	2.01	0.42
1:AI:157:MET:HE3	1:BM:56:TYR:CB	2.46	0.42
1:AK:163:VAL:HG22	1:AS:39:VAL:HG11	2.02	0.42
1:AD:84:LEU:HD11	1:CA:157:MET:HE1	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AZ:163:VAL:HG22	1:CF:39:VAL:HG11	2.02	0.42
1:CG:84:LEU:O	1:CG:113:ILE:HA	2.18	0.42
1:AB:140:GLU:OE2	1:AB:165:GLN:N	2.50	0.41
1:AB:2:LYS:HE2	1:AM:102:TYR:CE2	2.55	0.41
1:AC:25:TYR:HB2	1:BA:166:SER:HB2	2.01	0.41
1:AI:152:VAL:CG2	1:BL:44:ARG:NH2	2.82	0.41
1:AK:22:VAL:O	1:AS:13:PHE:HA	2.20	0.41
1:AN:111:HIS:NE2	1:AP:113:ILE:HD12	2.34	0.41
1:AN:20:LEU:O	1:AP:15:ASP:HA	2.20	0.41
1:BD:82:THR:HG23	1:BD:118:GLN:HE21	1.84	0.41
1:BF:145:THR:OG1	1:BF:147:PRO:O	2.29	0.41
1:BQ:114:VAL:HG12	1:BQ:116:VAL:HG23	2.01	0.41
1:BQ:139:TYR:HE1	1:BQ:152:VAL:HG12	1.83	0.41
1:BR:104:TYR:CD2	1:BW:76:SER:HB2	2.55	0.41
1:BR:56:TYR:CD1	1:BW:157:MET:HE3	2.55	0.41
1:BC:2:LYS:HE2	1:CC:102:TYR:CZ	2.55	0.41
1:AA:111:HIS:NE2	1:CD:113:ILE:HD12	2.35	0.41
1:AI:132:LYS:HD3	1:BM:19:THR:O	2.20	0.41
1:AB:107:PRO:HG2	1:AM:64:VAL:HG22	2.03	0.41
1:AN:155:LYS:HB2	1:AP:124:GLU:CD	2.41	0.41
1:AN:135:MET:HB2	1:AP:20:LEU:HD22	2.03	0.41
1:BB:140:GLU:CG	1:BB:153:ARG:HD2	2.50	0.41
1:AQ:160:GLY:HA3	1:BD:30:ARG:NE	2.34	0.41
1:BT:84:LEU:HD11	1:BX:157:MET:HE1	2.01	0.41
1:AT:158:LEU:HD23	1:BE:84:LEU:HB2	2.02	0.41
1:BT:56:TYR:HB3	1:BX:157:MET:HE3	2.02	0.41
1:BT:157:MET:HE3	1:BX:56:TYR:HB3	2.01	0.41
1:AR:82:THR:HG23	1:AR:118:GLN:HE21	1.84	0.41
1:AS:140:GLU:CG	1:AS:153:ARG:HD2	2.50	0.41
1:AH:143:ASP:OD2	1:BH:27:LYS:HD2	2.21	0.41
1:BL:113:ILE:HD12	1:BN:111:HIS:NE2	2.36	0.41
1:BL:64:VAL:HG22	1:BN:107:PRO:HG2	2.03	0.41
1:AH:44:ARG:NH2	1:BM:152:VAL:HG23	2.34	0.41
1:AL:107:PRO:HD3	1:BP:65:TYR:CE1	2.56	0.41
1:AG:134:LEU:HA	1:BU:88:VAL:HG21	2.02	0.41
1:BV:82:THR:HG23	1:BV:118:GLN:HE21	1.84	0.41
1:AX:156:ASP:CG	1:BX:44:ARG:HH11	2.24	0.41
1:BZ:114:VAL:HG12	1:BZ:116:VAL:HG23	2.01	0.41
1:BZ:165:GLN:NE2	1:CF:30:ARG:HD2	2.35	0.41
1:AB:157:MET:HE1	1:AM:84:LEU:HD11	2.02	0.41
1:AK:143:ASP:HB2	1:AS:27:LYS:NZ	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:157:MET:CE	1:BS:56:TYR:HB3	2.50	0.41
1:AG:167:LEU:HD23	1:BU:31:VAL:HG23	2.02	0.41
1:AX:94:VAL:HA	1:BY:3:ILE:O	2.20	0.41
1:AK:140:GLU:OE2	1:AK:165:GLN:N	2.50	0.41
1:AN:113:ILE:HD12	1:AP:111:HIS:NE2	2.35	0.41
1:AP:114:VAL:HG12	1:AP:116:VAL:HG23	2.01	0.41
1:AW:128:TYR:CE2	1:AY:154:LEU:HB3	2.56	0.41
1:AC:96:SER:OG	1:AZ:100:GLU:HG3	2.20	0.41
1:BG:82:THR:HG23	1:BG:118:GLN:HE21	1.84	0.41
1:BL:22:VAL:HA	1:BL:23:PRO:HD3	1.95	0.41
1:BC:135:MET:HB2	1:CC:20:LEU:HD22	2.03	0.41
1:AZ:113:ILE:HD12	1:CF:111:HIS:NE2	2.36	0.41
1:AD:133:ARG:HG2	1:CA:21:LYS:HE3	2.01	0.41
1:AT:77:PRO:HD3	1:BE:104:TYR:CZ	2.54	0.41
1:BN:140:GLU:CG	1:BN:153:ARG:HD2	2.51	0.41
1:AX:27:LYS:HD2	1:BY:12:ASN:ND2	2.36	0.41
1:AE:135:MET:HB2	1:AV:20:LEU:HD22	2.03	0.41
1:AG:101:THR:HB	1:BH:102:TYR:CD1	2.56	0.41
1:AT:140:GLU:OE2	1:AT:165:GLN:N	2.50	0.41
1:AW:140:GLU:OE2	1:AW:165:GLN:N	2.50	0.41
1:AY:140:GLU:CG	1:AY:153:ARG:HD2	2.51	0.41
1:BK:140:GLU:CG	1:BK:153:ARG:HD2	2.50	0.41
1:AM:140:GLU:CG	1:AM:153:ARG:HD2	2.50	0.41
1:AU:108:PHE:CE2	1:BV:130:ALA:HB1	2.56	0.41
1:AU:82:THR:HG23	1:AU:118:GLN:HE21	1.84	0.41
1:AC:76:SER:HB3	1:BA:104:TYR:CD2	2.55	0.41
1:BC:111:HIS:CE1	1:CC:113:ILE:HB	2.56	0.41
1:BI:22:VAL:O	1:BQ:13:PHE:HA	2.21	0.41
1:BZ:104:TYR:CZ	1:CG:77:PRO:HD3	2.56	0.41
1:AA:134:LEU:HA	1:CD:88:VAL:HG21	2.03	0.41
1:AD:140:GLU:CG	1:AD:153:ARG:HD2	2.50	0.41
1:AO:135:MET:HB2	1:BS:20:LEU:HD22	2.01	0.41
1:AQ:113:ILE:HD12	1:BB:111:HIS:NE2	2.36	0.41
1:AI:12:ASN:ND2	1:BM:27:LYS:HD2	2.35	0.41
1:AU:152:VAL:HG23	1:BU:44:ARG:HH22	1.85	0.41
1:CF:140:GLU:CG	1:CF:153:ARG:HD2	2.50	0.41
1:AA:140:GLU:CG	1:AA:153:ARG:HD2	2.50	0.41
1:AI:26:SER:HB3	1:BM:166:SER:HB3	2.02	0.41
1:AQ:56:TYR:HB3	1:BB:157:MET:CE	2.50	0.41
1:BT:71:ASP:OD2	1:BY:78:SER:HA	2.21	0.41
1:BW:140:GLU:CG	1:BW:153:ARG:HD2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BZ:124:GLU:CD	1:CG:155:LYS:HB2	2.41	0.41
1:BQ:22:VAL:HA	1:BQ:23:PRO:HD3	1.97	0.40
1:BR:162:LEU:HD13	1:BW:56:TYR:O	2.21	0.40
1:BW:22:VAL:HA	1:BW:23:PRO:HD3	1.97	0.40
1:AN:56:TYR:HB3	1:AP:157:MET:CE	2.51	0.40
1:AT:160:GLY:HA3	1:BG:30:ARG:NE	2.36	0.40
1:AE:46:GLN:HE22	1:AV:7:ASN:HB3	1.86	0.40
1:AQ:94:VAL:HA	1:BB:3:ILE:O	2.21	0.40
1:BF:140:GLU:OE2	1:BF:165:GLN:N	2.50	0.40
1:AO:56:TYR:HB3	1:BS:157:MET:CE	2.51	0.40
1:BR:155:LYS:HB2	1:BW:124:GLU:CD	2.41	0.40
1:BH:101:THR:HB	1:BQ:102:TYR:CD1	2.56	0.40
1:BZ:20:LEU:HD22	1:CG:135:MET:HB2	2.03	0.40
1:AP:22:VAL:HA	1:AP:23:PRO:HD3	1.97	0.40
1:AW:2:LYS:HE2	1:AY:102:TYR:CZ	2.57	0.40
1:AZ:84:LEU:HD11	1:CF:157:MET:HE1	2.03	0.40
1:BA:84:LEU:O	1:BA:113:ILE:HA	2.22	0.40
1:BG:84:LEU:O	1:BG:113:ILE:HA	2.22	0.40
1:BC:46:GLN:HE22	1:CC:7:ASN:HB3	1.87	0.40
1:AZ:159:GLN:O	1:CH:30:ARG:HD2	2.21	0.40
1:AE:56:TYR:HB3	1:AV:157:MET:CE	2.51	0.40
1:AG:139:TYR:HE1	1:AG:152:VAL:HG12	1.83	0.40
1:AI:84:LEU:HD11	1:BM:157:MET:CE	2.49	0.40
1:AQ:157:MET:HE1	1:BB:84:LEU:HD11	2.03	0.40
1:AR:84:LEU:O	1:AR:113:ILE:HA	2.22	0.40
1:BJ:84:LEU:O	1:BJ:113:ILE:HA	2.22	0.40
1:AL:25:TYR:HB2	1:BP:166:SER:HB2	2.04	0.40
1:BR:22:VAL:HA	1:BR:23:PRO:HD3	1.95	0.40
1:CC:140:GLU:CG	1:CC:153:ARG:HD2	2.51	0.40
1:CD:140:GLU:OE2	1:CD:165:GLN:N	2.50	0.40

All (10) 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:BD:97:THR:OG1	1:BU:15:ASP:OD2[18_555]	1.43	0.77
1:BB:13:PHE:O	1:BX:146:SER:OG[18_555]	1.60	0.60
1:BB:13:PHE:O	1:BX:146:SER:CB[18_555]	1.74	0.46
1:BB:13:PHE:C	1:BX:146:SER:OG[18_555]	1.83	0.37
1:BB:13:PHE:N	1:BX:146:SER:OG[18_555]	1.85	0.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BB:13:PHE:N	1:BX:146:SER:CB[18_555]	1.90	0.30
1:BB:13:PHE:CA	1:BX:146:SER:OG[18_555]	1.91	0.29
1:BJ:105:SER:O	1:CB:65:TYR:OH[9_555]	2.12	0.08
1:AA:9:SER:OG	1:BU:144:THR:CG2[22_555]	2.16	0.04
1:BJ:104:TYR:OH	1:CB:119:ASP:OD1[9_555]	2.19	0.01

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	AA	165/167 (99%)	161 (98%)	4 (2%)	0	100	100
1	AB	165/167 (99%)	162 (98%)	3 (2%)	0	100	100
1	AC	165/167 (99%)	163 (99%)	2 (1%)	0	100	100
1	AD	165/167 (99%)	161 (98%)	4 (2%)	0	100	100
1	AE	165/167 (99%)	162 (98%)	3 (2%)	0	100	100
1	AF	165/167 (99%)	163 (99%)	2 (1%)	0	100	100
1	AG	165/167 (99%)	161 (98%)	4 (2%)	0	100	100
1	AH	165/167 (99%)	162 (98%)	3 (2%)	0	100	100
1	AI	165/167 (99%)	163 (99%)	2 (1%)	0	100	100
1	AJ	165/167 (99%)	161 (98%)	4 (2%)	0	100	100
1	AK	165/167 (99%)	162 (98%)	3 (2%)	0	100	100
1	AL	165/167 (99%)	163 (99%)	2 (1%)	0	100	100
1	AM	165/167 (99%)	161 (98%)	4 (2%)	0	100	100
1	AN	165/167 (99%)	162 (98%)	3 (2%)	0	100	100
1	AO	165/167 (99%)	163 (99%)	2 (1%)	0	100	100
1	AP	165/167 (99%)	161 (98%)	4 (2%)	0	100	100
1	AQ	165/167 (99%)	162 (98%)	3 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	AR	165/167 (99%)	163 (99%)	2 (1%)	0	100	100
1	AS	165/167 (99%)	161 (98%)	4 (2%)	0	100	100
1	AT	165/167 (99%)	162 (98%)	3 (2%)	0	100	100
1	AU	165/167 (99%)	163 (99%)	2 (1%)	0	100	100
1	AV	165/167 (99%)	161 (98%)	4 (2%)	0	100	100
1	AW	165/167 (99%)	162 (98%)	3 (2%)	0	100	100
1	AX	165/167 (99%)	163 (99%)	2 (1%)	0	100	100
1	AY	165/167 (99%)	161 (98%)	4 (2%)	0	100	100
1	AZ	165/167 (99%)	162 (98%)	3 (2%)	0	100	100
1	BA	165/167 (99%)	163 (99%)	2 (1%)	0	100	100
1	BB	165/167 (99%)	161 (98%)	4 (2%)	0	100	100
1	BC	165/167 (99%)	162 (98%)	3 (2%)	0	100	100
1	BD	165/167 (99%)	163 (99%)	2 (1%)	0	100	100
1	BE	165/167 (99%)	161 (98%)	4 (2%)	0	100	100
1	BF	165/167 (99%)	162 (98%)	3 (2%)	0	100	100
1	BG	165/167 (99%)	163 (99%)	2 (1%)	0	100	100
1	BH	165/167 (99%)	161 (98%)	4 (2%)	0	100	100
1	BI	165/167 (99%)	162 (98%)	3 (2%)	0	100	100
1	BJ	165/167 (99%)	163 (99%)	2 (1%)	0	100	100
1	BK	165/167 (99%)	161 (98%)	4 (2%)	0	100	100
1	BL	165/167 (99%)	162 (98%)	3 (2%)	0	100	100
1	BM	165/167 (99%)	163 (99%)	2 (1%)	0	100	100
1	BN	165/167 (99%)	161 (98%)	4 (2%)	0	100	100
1	BO	165/167 (99%)	162 (98%)	3 (2%)	0	100	100
1	BP	165/167 (99%)	163 (99%)	2 (1%)	0	100	100
1	BQ	165/167 (99%)	161 (98%)	4 (2%)	0	100	100
1	BR	165/167 (99%)	162 (98%)	3 (2%)	0	100	100
1	BS	165/167 (99%)	163 (99%)	2 (1%)	0	100	100
1	BT	165/167 (99%)	161 (98%)	4 (2%)	0	100	100
1	BU	165/167 (99%)	162 (98%)	3 (2%)	0	100	100
1	BV	165/167 (99%)	163 (99%)	2 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	BW	165/167 (99%)	161 (98%)	4 (2%)	0	100	100
1	BX	165/167 (99%)	162 (98%)	3 (2%)	0	100	100
1	BY	165/167 (99%)	163 (99%)	2 (1%)	0	100	100
1	BZ	165/167 (99%)	161 (98%)	4 (2%)	0	100	100
1	CA	165/167 (99%)	162 (98%)	3 (2%)	0	100	100
1	CB	165/167 (99%)	163 (99%)	2 (1%)	0	100	100
1	CC	165/167 (99%)	161 (98%)	4 (2%)	0	100	100
1	CD	165/167 (99%)	162 (98%)	3 (2%)	0	100	100
1	CE	165/167 (99%)	163 (99%)	2 (1%)	0	100	100
1	CF	165/167 (99%)	161 (98%)	4 (2%)	0	100	100
1	CG	165/167 (99%)	162 (98%)	3 (2%)	0	100	100
1	CH	165/167 (99%)	163 (99%)	2 (1%)	0	100	100
All	All	9900/10020 (99%)	9720 (98%)	180 (2%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	AA	151/151 (100%)	150 (99%)	1 (1%)	84	90
1	AB	151/151 (100%)	150 (99%)	1 (1%)	84	90
1	AC	151/151 (100%)	151 (100%)	0	100	100
1	AD	151/151 (100%)	150 (99%)	1 (1%)	84	90
1	AE	151/151 (100%)	150 (99%)	1 (1%)	84	90
1	AF	151/151 (100%)	151 (100%)	0	100	100
1	AG	151/151 (100%)	150 (99%)	1 (1%)	84	90
1	AH	151/151 (100%)	150 (99%)	1 (1%)	84	90
1	AI	151/151 (100%)	151 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	AJ	151/151 (100%)	150 (99%)	1 (1%)	84 90
1	AK	151/151 (100%)	150 (99%)	1 (1%)	84 90
1	AL	151/151 (100%)	151 (100%)	0	100 100
1	AM	151/151 (100%)	150 (99%)	1 (1%)	84 90
1	AN	151/151 (100%)	150 (99%)	1 (1%)	84 90
1	AO	151/151 (100%)	151 (100%)	0	100 100
1	AP	151/151 (100%)	150 (99%)	1 (1%)	84 90
1	AQ	151/151 (100%)	150 (99%)	1 (1%)	84 90
1	AR	151/151 (100%)	151 (100%)	0	100 100
1	AS	151/151 (100%)	150 (99%)	1 (1%)	84 90
1	AT	151/151 (100%)	150 (99%)	1 (1%)	84 90
1	AU	151/151 (100%)	151 (100%)	0	100 100
1	AV	151/151 (100%)	150 (99%)	1 (1%)	84 90
1	AW	151/151 (100%)	150 (99%)	1 (1%)	84 90
1	AX	151/151 (100%)	151 (100%)	0	100 100
1	AY	151/151 (100%)	150 (99%)	1 (1%)	84 90
1	AZ	151/151 (100%)	150 (99%)	1 (1%)	84 90
1	BA	151/151 (100%)	151 (100%)	0	100 100
1	BB	151/151 (100%)	150 (99%)	1 (1%)	84 90
1	BC	151/151 (100%)	150 (99%)	1 (1%)	84 90
1	BD	151/151 (100%)	151 (100%)	0	100 100
1	BE	151/151 (100%)	150 (99%)	1 (1%)	84 90
1	BF	151/151 (100%)	150 (99%)	1 (1%)	84 90
1	BG	151/151 (100%)	151 (100%)	0	100 100
1	BH	151/151 (100%)	150 (99%)	1 (1%)	84 90
1	BI	151/151 (100%)	150 (99%)	1 (1%)	84 90
1	BJ	151/151 (100%)	151 (100%)	0	100 100
1	BK	151/151 (100%)	150 (99%)	1 (1%)	84 90
1	BL	151/151 (100%)	150 (99%)	1 (1%)	84 90
1	BM	151/151 (100%)	151 (100%)	0	100 100
1	BN	151/151 (100%)	150 (99%)	1 (1%)	84 90

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	BO	151/151 (100%)	150 (99%)	1 (1%)	84 90
1	BP	151/151 (100%)	151 (100%)	0	100 100
1	BQ	151/151 (100%)	150 (99%)	1 (1%)	84 90
1	BR	151/151 (100%)	150 (99%)	1 (1%)	84 90
1	BS	151/151 (100%)	151 (100%)	0	100 100
1	BT	151/151 (100%)	150 (99%)	1 (1%)	84 90
1	BU	151/151 (100%)	150 (99%)	1 (1%)	84 90
1	BV	151/151 (100%)	151 (100%)	0	100 100
1	BW	151/151 (100%)	150 (99%)	1 (1%)	84 90
1	BX	151/151 (100%)	150 (99%)	1 (1%)	84 90
1	BY	151/151 (100%)	151 (100%)	0	100 100
1	BZ	151/151 (100%)	150 (99%)	1 (1%)	84 90
1	CA	151/151 (100%)	150 (99%)	1 (1%)	84 90
1	CB	151/151 (100%)	151 (100%)	0	100 100
1	CC	151/151 (100%)	150 (99%)	1 (1%)	84 90
1	CD	151/151 (100%)	150 (99%)	1 (1%)	84 90
1	CE	151/151 (100%)	151 (100%)	0	100 100
1	CF	151/151 (100%)	150 (99%)	1 (1%)	84 90
1	CG	151/151 (100%)	150 (99%)	1 (1%)	84 90
1	CH	151/151 (100%)	151 (100%)	0	100 100
All	All	9060/9060 (100%)	9020 (100%)	40 (0%)	91 95

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

Mol	Chain	Res	Type
1	AA	52	ASN
1	AB	52	ASN
1	AD	52	ASN
1	AE	52	ASN
1	AG	52	ASN
1	AH	52	ASN
1	AJ	52	ASN
1	AK	52	ASN
1	AM	52	ASN
1	AN	52	ASN

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Mol	Chain	Res	Type
1	AP	52	ASN
1	AQ	52	ASN
1	AS	52	ASN
1	AT	52	ASN
1	AV	52	ASN
1	AW	52	ASN
1	AY	52	ASN
1	AZ	52	ASN
1	BB	52	ASN
1	BC	52	ASN
1	BE	52	ASN
1	BF	52	ASN
1	BH	52	ASN
1	BI	52	ASN
1	BK	52	ASN
1	BL	52	ASN
1	BN	52	ASN
1	BO	52	ASN
1	BQ	52	ASN
1	BR	52	ASN
1	BT	52	ASN
1	BU	52	ASN
1	BW	52	ASN
1	BX	52	ASN
1	BZ	52	ASN
1	CA	52	ASN
1	CC	52	ASN
1	CD	52	ASN
1	CF	52	ASN
1	CG	52	ASN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (59) such sidechains are listed below:

Mol	Chain	Res	Type
1	AB	46	GLN
1	AD	12	ASN
1	AE	46	GLN
1	AF	12	ASN
1	AF	165	GLN
1	AH	12	ASN
1	AH	46	GLN
1	AI	12	ASN

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Mol	Chain	Res	Type
1	AK	46	GLN
1	AK	159	GLN
1	AL	12	ASN
1	AL	165	GLN
1	AM	12	ASN
1	AN	46	GLN
1	AO	12	ASN
1	AQ	46	GLN
1	AT	46	GLN
1	AT	75	GLN
1	AU	12	ASN
1	AW	46	GLN
1	AY	12	ASN
1	AZ	46	GLN
1	BA	12	ASN
1	BC	12	ASN
1	BC	46	GLN
1	BC	75	GLN
1	BD	118	GLN
1	BE	12	ASN
1	BG	165	GLN
1	BH	12	ASN
1	BI	46	GLN
1	BL	46	GLN
1	BL	75	GLN
1	BM	12	ASN
1	BN	12	ASN
1	BP	12	ASN
1	BR	46	GLN
1	BR	75	GLN
1	BS	12	ASN
1	BT	12	ASN
1	BU	12	ASN
1	BU	46	GLN
1	BV	12	ASN
1	BV	165	GLN
1	BW	12	ASN
1	BX	12	ASN
1	BX	46	GLN
1	BX	75	GLN
1	BY	12	ASN
1	BY	165	GLN

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Mol	Chain	Res	Type
1	BZ	12	ASN
1	CA	46	GLN
1	CB	118	GLN
1	CC	12	ASN
1	CD	12	ASN
1	CD	46	GLN
1	CF	12	ASN
1	CG	46	GLN
1	CG	75	GLN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no monosaccharides in this entry.

5.6 Ligand geometry

Of 20 ligands modelled in this entry, 20 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled '#RSRZ> 2' contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95^{th} 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	167/167 (100%)	-0.04	0 100 100	37, 62, 102, 142	0
1	AB	167/167 (100%)	-0.22	0 100 100	38, 60, 91, 138	0
1	AC	167/167 (100%)	-0.14	0 100 100	41, 67, 106, 126	0
1	AD	167/167 (100%)	-0.30	0 100 100	37, 62, 102, 142	0
1	AE	167/167 (100%)	-0.39	0 100 100	38, 60, 91, 138	0
1	AF	167/167 (100%)	-0.21	0 100 100	41, 67, 106, 126	0
1	AG	167/167 (100%)	0.12	4 (2%) 59 56	37, 62, 102, 142	0
1	AH	167/167 (100%)	-0.07	0 100 100	38, 60, 91, 138	0
1	AI	167/167 (100%)	0.08	0 100 100	41, 67, 106, 126	0
1	AJ	167/167 (100%)	-0.09	0 100 100	37, 62, 102, 142	0
1	AK	167/167 (100%)	-0.30	1 (0%) 89 90	38, 60, 91, 138	0
1	AL	167/167 (100%)	-0.24	1 (0%) 89 90	41, 67, 106, 126	0
1	AM	167/167 (100%)	-0.17	0 100 100	37, 62, 102, 142	0
1	AN	167/167 (100%)	-0.23	0 100 100	38, 60, 91, 138	0
1	AO	167/167 (100%)	-0.23	0 100 100	41, 67, 106, 126	0
1	AP	167/167 (100%)	-0.09	1 (0%) 89 90	37, 62, 102, 142	0
1	AQ	167/167 (100%)	-0.23	0 100 100	38, 60, 91, 138	0
1	AR	167/167 (100%)	-0.10	0 100 100	41, 67, 106, 126	0
1	AS	167/167 (100%)	-0.30	0 100 100	37, 62, 102, 142	0
1	AT	167/167 (100%)	-0.28	0 100 100	38, 60, 91, 138	0
1	AU	167/167 (100%)	-0.20	0 100 100	41, 67, 106, 126	0
1	AV	167/167 (100%)	-0.27	0 100 100	37, 62, 102, 142	0
1	AW	167/167 (100%)	-0.34	0 100 100	38, 60, 91, 138	0
1	AX	167/167 (100%)	-0.23	0 100 100	41, 67, 106, 126	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	AY	167/167 (100%)	-0.29	0 100 100	37, 62, 102, 142	0
1	AZ	167/167 (100%)	-0.25	0 100 100	38, 60, 91, 138	0
1	BA	167/167 (100%)	0.02	0 100 100	41, 67, 106, 126	0
1	BB	167/167 (100%)	-0.15	1 (0%) 89 90	37, 62, 102, 142	0
1	BC	167/167 (100%)	-0.18	0 100 100	38, 60, 91, 138	0
1	BD	167/167 (100%)	0.04	0 100 100	41, 67, 106, 126	0
1	BE	167/167 (100%)	-0.23	0 100 100	37, 62, 102, 142	0
1	BF	167/167 (100%)	-0.32	0 100 100	38, 60, 91, 138	0
1	BG	167/167 (100%)	-0.27	0 100 100	41, 67, 106, 126	0
1	BH	167/167 (100%)	-0.05	4 (2%) 59 56	37, 62, 102, 142	0
1	BI	167/167 (100%)	-0.25	0 100 100	38, 60, 91, 138	0
1	BJ	167/167 (100%)	-0.11	0 100 100	41, 67, 106, 126	0
1	BK	167/167 (100%)	-0.26	1 (0%) 89 90	37, 62, 102, 142	0
1	BL	167/167 (100%)	-0.28	0 100 100	38, 60, 91, 138	0
1	BM	167/167 (100%)	-0.03	4 (2%) 59 56	41, 67, 106, 126	0
1	BN	167/167 (100%)	-0.21	0 100 100	37, 62, 102, 142	0
1	BO	167/167 (100%)	-0.19	0 100 100	38, 60, 91, 138	0
1	BP	167/167 (100%)	-0.25	0 100 100	41, 67, 106, 126	0
1	BQ	167/167 (100%)	-0.25	0 100 100	37, 62, 102, 142	0
1	BR	167/167 (100%)	-0.24	0 100 100	38, 60, 91, 138	0
1	BS	167/167 (100%)	-0.18	0 100 100	41, 67, 106, 126	0
1	BT	167/167 (100%)	-0.05	1 (0%) 89 90	37, 62, 102, 142	0
1	BU	167/167 (100%)	-0.11	0 100 100	38, 60, 91, 138	0
1	BV	167/167 (100%)	0.01	0 100 100	41, 67, 106, 126	0
1	BW	167/167 (100%)	-0.29	0 100 100	37, 62, 102, 142	0
1	BX	167/167 (100%)	-0.05	7 (4%) 36 34	38, 60, 91, 138	0
1	BY	167/167 (100%)	-0.12	1 (0%) 89 90	41, 67, 106, 126	0
1	BZ	167/167 (100%)	-0.25	0 100 100	37, 62, 102, 142	0
1	CA	167/167 (100%)	-0.39	0 100 100	38, 60, 91, 138	0
1	CB	167/167 (100%)	-0.16	0 100 100	41, 67, 106, 126	0
1	CC	167/167 (100%)	-0.19	0 100 100	37, 62, 102, 142	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å^2)	Q<0.9
1	CD	167/167 (100%)	-0.09	0	100	100	38, 60, 91, 138	0
1	CE	167/167 (100%)	-0.10	0	100	100	41, 67, 106, 126	0
1	CF	167/167 (100%)	-0.18	0	100	100	37, 62, 102, 142	0
1	CG	167/167 (100%)	-0.32	0	100	100	38, 60, 91, 138	0
1	CH	167/167 (100%)	-0.20	0	100	100	41, 67, 106, 126	0
All	All	10020/10020 (100%)	-0.18	26 (0%)	94	94	37, 63, 104, 142	0

All (26) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	BX	147	PRO	5.1
1	BX	148	THR	5.0
1	BH	146	SER	4.8
1	BH	147	PRO	4.3
1	BX	143	ASP	3.3
1	AG	146	SER	3.2
1	BX	146	SER	3.0
1	BX	145	THR	2.9
1	BM	143	ASP	2.9
1	BX	144	THR	2.7
1	AK	95	ALA	2.5
1	BH	142	ASN	2.4
1	BM	142	ASN	2.4
1	BB	146	SER	2.3
1	AG	144	THR	2.3
1	AG	145	THR	2.3
1	BK	144	THR	2.2
1	BT	144	THR	2.2
1	BM	148	THR	2.2
1	BM	146	SER	2.2
1	BY	1	SER	2.2
1	BH	148	THR	2.1
1	BX	142	ASN	2.1
1	AG	66	ARG	2.1
1	AP	144	THR	2.1
1	AL	51	LYS	2.0

6.2 Non-standard residues in protein, DNA, RNA chains (i)

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

6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

6.4 Ligands (i)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
2	CA	CC	201	1/1	0.88	0.15	59,59,59,59	0
2	CA	BK	201	1/1	0.90	0.20	59,59,59,59	0
2	CA	CF	201	1/1	0.90	0.17	59,59,59,59	0
2	CA	AV	201	1/1	0.90	0.17	59,59,59,59	0
2	CA	AA	201	1/1	0.90	0.17	59,59,59,59	0
2	CA	AS	201	1/1	0.91	0.16	59,59,59,59	0
2	CA	AP	201	1/1	0.91	0.12	59,59,59,59	0
2	CA	BH	201	1/1	0.93	0.18	59,59,59,59	0
2	CA	AG	201	1/1	0.93	0.09	59,59,59,59	0
2	CA	AM	201	1/1	0.94	0.25	59,59,59,59	0
2	CA	BE	201	1/1	0.94	0.13	59,59,59,59	0
2	CA	BZ	201	1/1	0.94	0.22	59,59,59,59	0
2	CA	AJ	201	1/1	0.95	0.12	59,59,59,59	0
2	CA	BT	201	1/1	0.95	0.13	59,59,59,59	0
2	CA	BW	201	1/1	0.95	0.18	59,59,59,59	0
2	CA	AD	201	1/1	0.95	0.12	59,59,59,59	0
2	CA	BB	201	1/1	0.95	0.25	59,59,59,59	0
2	CA	AY	201	1/1	0.96	0.18	59,59,59,59	0
2	CA	BQ	201	1/1	0.96	0.18	59,59,59,59	0
2	CA	BN	201	1/1	0.97	0.18	59,59,59,59	0

6.5 Other polymers (i)

There are no such residues in this entry.