Full wwPDB X-ray Structure Validation Report ⓘ

Aug 29, 2020 – 11:06 AM BST

PDB ID	:	6YFO
Title	:	Virus-like particle of bacteriophage GQ-907
Authors	:	Rumnieks, J.; Kalnins, G.; Sisovs, M.; Lieknina, I.; Tars, K.
Deposited on	:	2020-03-26
Resolution	:	3.48 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:

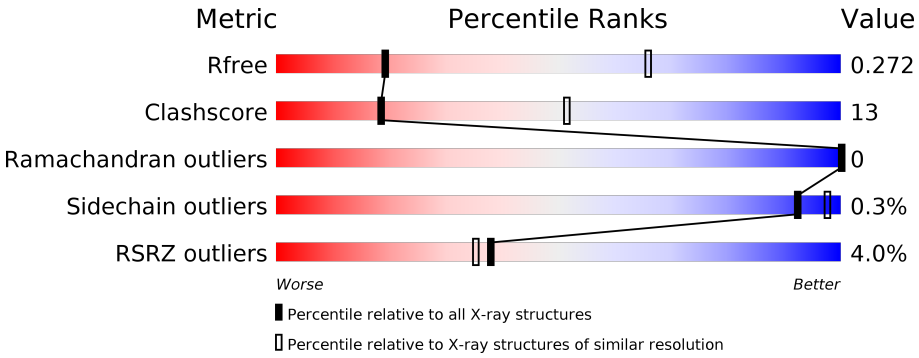
MolProbity	:	4.02b-467
Xtriage (Phenix)	:	1.13
EDS	:	2.13
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation 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 3.48 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	1379 (3.56-3.40)
Clashscore	141614	1461 (3.56-3.40)
Ramachandran outliers	138981	1424 (3.56-3.40)
Sidechain outliers	138945	1425 (3.56-3.40)
RSRZ outliers	127900	1289 (3.56-3.40)

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	131	3% 79% 20%
1	AB	131	2% 68% 32%
1	AC	131	7% 74% 26%
1	AD	131	4% 80% 19%
1	AE	131	2% 69% 31%
1	AF	131	5% 73% 27%

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Mol	Chain	Length	Quality of chain
1	AG	131	5% 79% 21%
1	AH	131	3% 68% 32%
1	AI	131	7% 69% 31%
1	AJ	131	2% 79% 20%
1	AK	131	2% 69% 31%
1	AL	131	% 76% 24%
1	AM	131	% 80% 19%
1	AN	131	2% 69% 31%
1	AO	131	4% 69% 31%
1	AP	131	2% 82% 17%
1	AQ	131	2% 71% 29%
1	AR	131	3% 74% 26%
1	AS	131	% 80% 19%
1	AT	131	2% 68% 32%
1	AU	131	8% 74% 26%
1	AV	131	% 80% 19%
1	AW	131	3% 69% 31%
1	AX	131	4% 73% 27%
1	AY	131	2% 82% 18%
1	AZ	131	2% 71% 29%
1	BA	131	5% 75% 25%
1	BB	131	2% 79% 20%
1	BC	131	% 70% 30%
1	BD	131	2% 76% 24%
1	BE	131	7% 79% 21%

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Mol	Chain	Length	Quality of chain
1	BF	131	5% 70% 30%
1	BG	131	6% 74% 26%
1	BH	131	9% 82% 17%
1	BI	131	2% 70% 30%
1	BJ	131	8% 76% 24%
1	BK	131	7% 81% 18%
1	BL	131	2% 69% 31%
1	BM	131	9% 69% 31%
1	BN	131	2% 83% 16%
1	BO	131	4% 69% 31%
1	BP	131	7% 74% 26%
1	BQ	131	6% 83% 16%
1	BR	131	2% 71% 29%
1	BS	131	4% 78% 22%
1	BT	131	4% 81% 18%
1	BU	131	2% 69% 31%
1	BV	131	8% 73% 27%
1	BW	131	4% 80% 19%
1	BX	131	2% 67% 33%
1	BY	131	2% 69% 31%
1	BZ	131	5% 82% 17%
1	CA	131	3% 68% 32%
1	CB	131	4% 76% 24%
1	CC	131	3% 77% 22%
1	CD	131	3% 66% 34%

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Mol	Chain	Length	Quality of chain
1	CE	131	6% 69% 31%
1	CF	131	5% 80% 19%
1	CG	131	5% 69% 31%
1	CH	131	4% 79% 21%
1	CI	131	5% 77% 22%
1	CJ	131	2% 69% 31%
1	CK	131	6% 75% 25%
1	CL	131	8% 80% 19%
1	CM	131	3% 70% 30%
1	CN	131	% 76% 24%
1	CO	131	2% 83% 16%
1	CP	131	2% 70% 30%
1	CQ	131	2% 81% 19%
1	CR	131	5% 81% 18%
1	CS	131	4% 70% 30%
1	CT	131	12% 74% 26%
1	CU	131	3% 80% 19%
1	CV	131	4% 69% 31%
1	CW	131	13% 76% 24%
1	CX	131	3% 80% 19%
1	CY	131	% 72% 28%
1	CZ	131	3% 76% 24%
1	DA	131	2% 79% 20%
1	DB	131	6% 69% 31%
1	DC	131	9% 74% 26%

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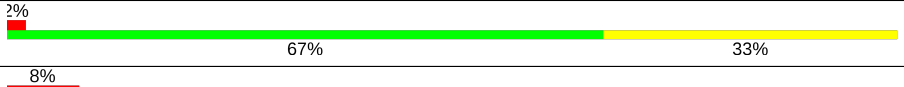
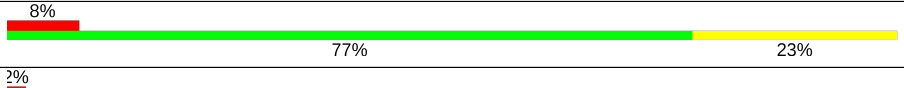
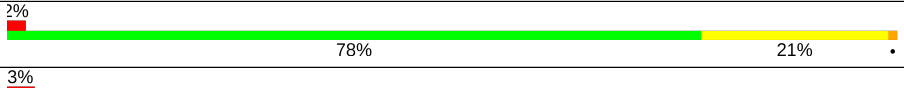
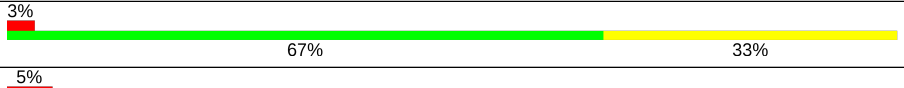
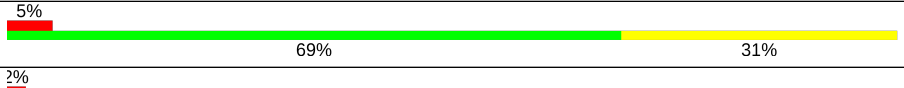
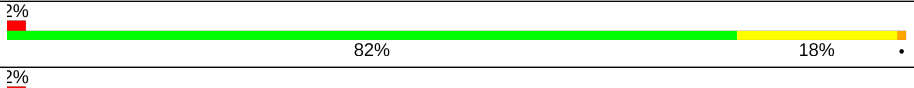
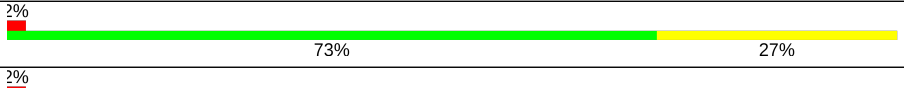
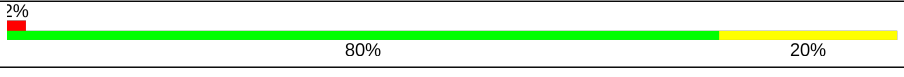
Mol	Chain	Length	Quality of chain
1	DD	131	
1	DE	131	
1	DF	131	
1	DG	131	
1	DH	131	
1	DI	131	
1	DJ	131	
1	DK	131	
1	DL	131	

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 87480 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	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	AB	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	AC	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	AD	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	AE	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	AF	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	AG	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	AH	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	AI	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	AJ	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	AK	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	AL	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	AM	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	AN	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	AO	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	AP	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	AQ	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	AR	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	AS	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	AT	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	AU	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	AV	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	AW	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	AX	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	AY	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	AZ	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	BA	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	BB	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	BC	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	BD	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	BE	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	BF	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	BG	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	BH	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	BI	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	BJ	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	BK	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	BL	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	BM	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	BN	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	BO	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	BP	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	BQ	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	BR	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	BS	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	BT	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	BU	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	BV	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	BW	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	BX	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	BY	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	BZ	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	CA	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	CB	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	CC	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	CD	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	CE	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	CF	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	CG	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	CH	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	CI	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	CJ	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	CK	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	CL	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	CM	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	CN	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	CO	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	CP	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	CQ	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	CR	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	CS	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	CT	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	CU	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	CV	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	CW	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	CX	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	CY	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	CZ	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	DA	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			

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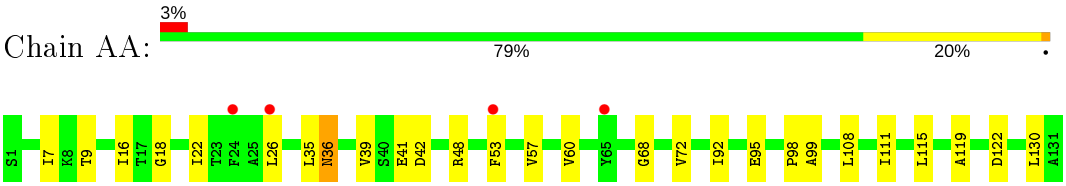
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	DB	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	DC	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	DD	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	DE	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	DF	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	DG	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	DH	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	DI	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	DJ	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	DK	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			
1	DL	131	Total	C	N	O	S	0	0	0
			972	607	166	198	1			

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.

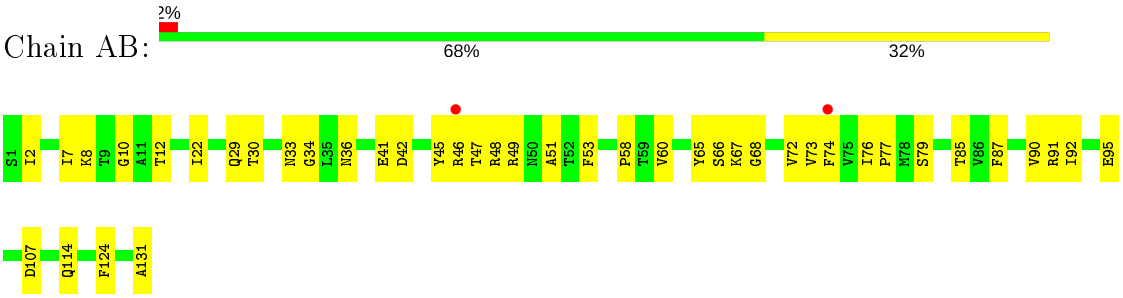
- Molecule 1: coat protein

Chain AA:



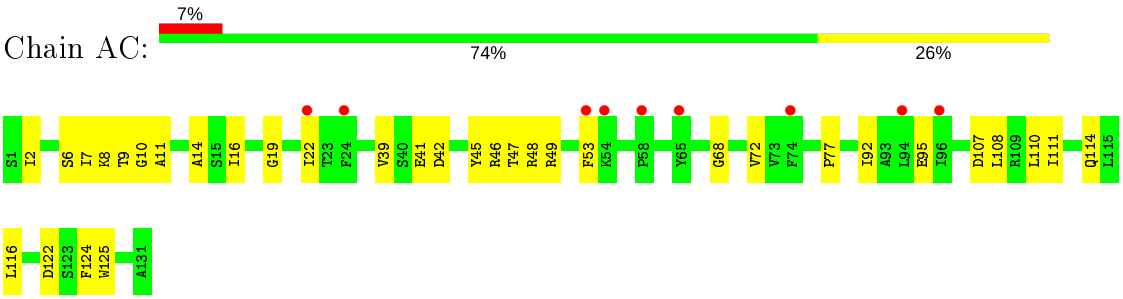
- Molecule 1: coat protein

Chain AB:



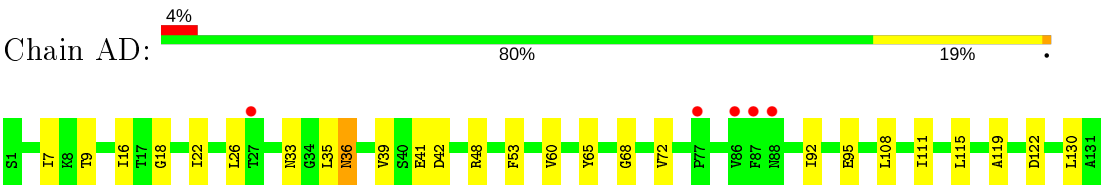
- Molecule 1: coat protein

Chain AC:



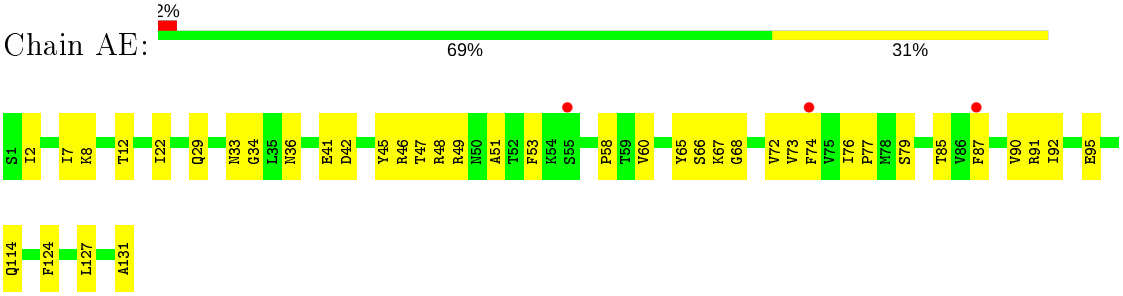
- Molecule 1: coat protein

Chain AD:



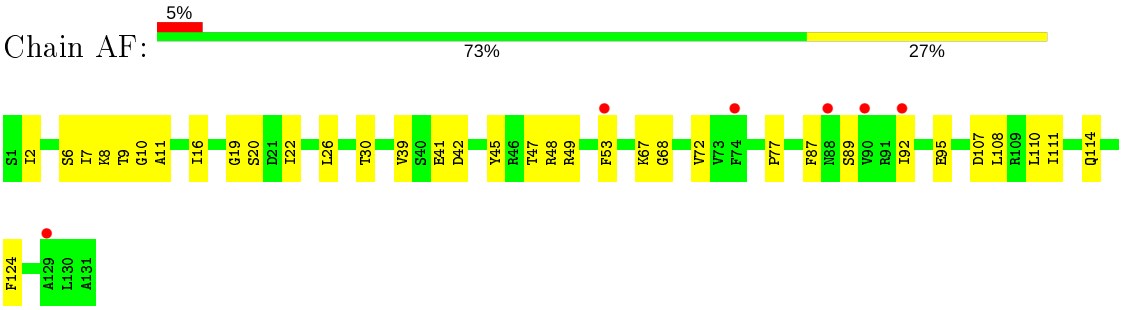
- Molecule 1: coat protein

Chain AE:



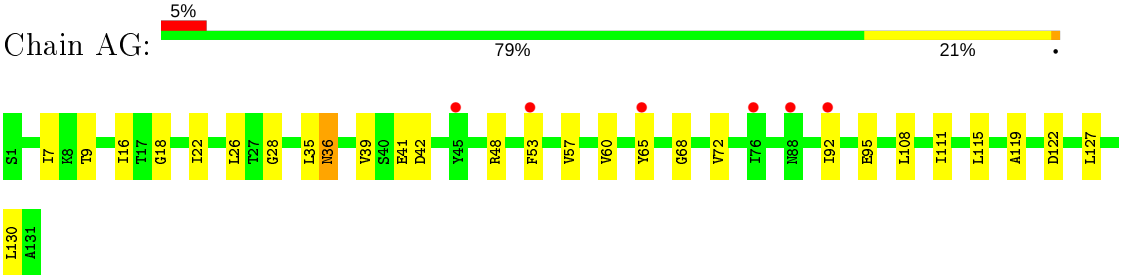
• Molecule 1: coat protein

Chain AF:



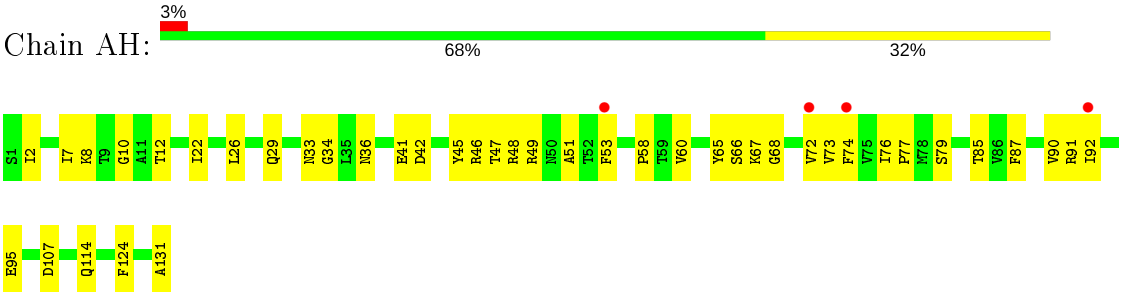
• Molecule 1: coat protein

Chain AG:



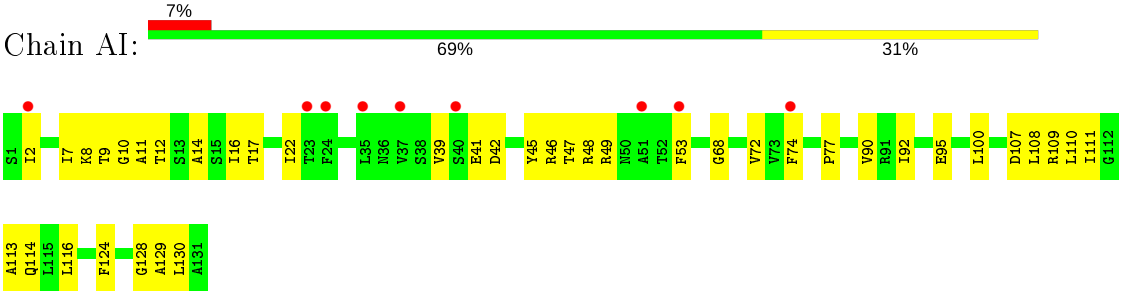
• Molecule 1: coat protein

Chain AH:



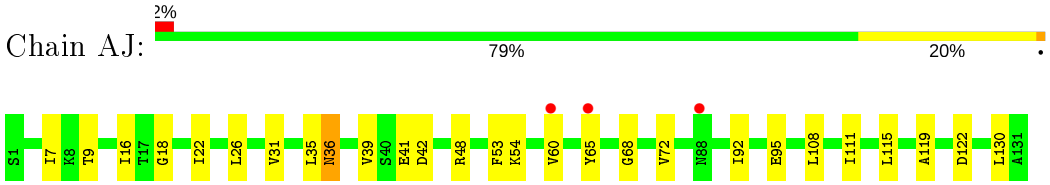
• Molecule 1: coat protein

Chain AI:



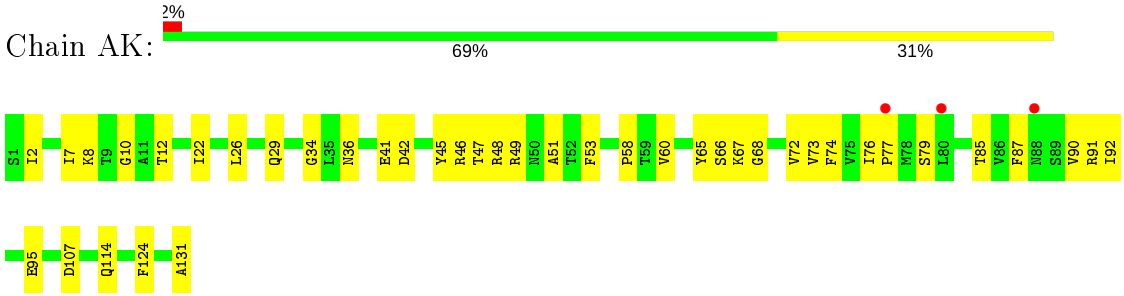
• Molecule 1: coat protein

Chain AJ:



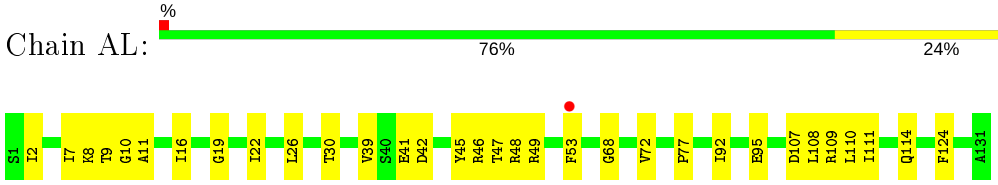
• Molecule 1: coat protein

Chain AK:



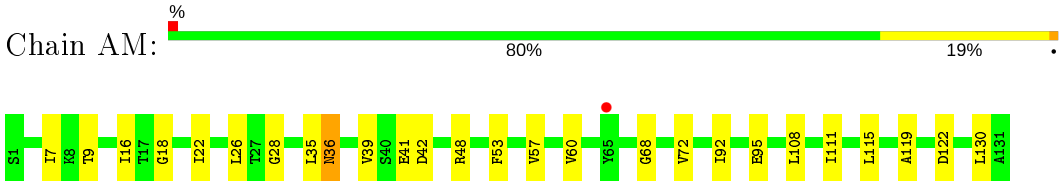
• Molecule 1: coat protein

Chain AL:



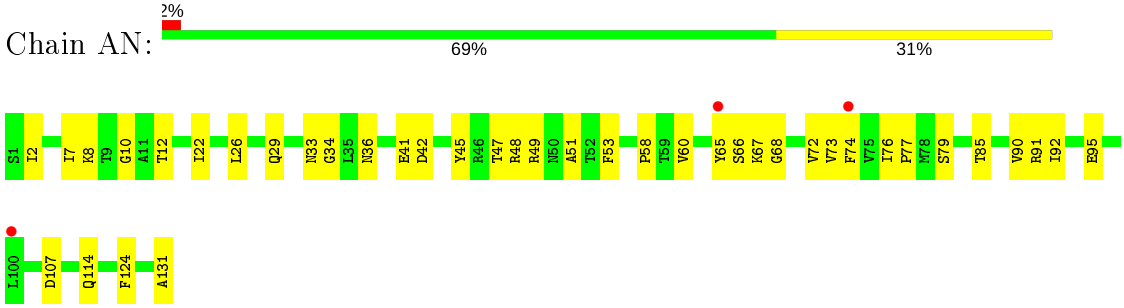
• Molecule 1: coat protein

Chain AM:



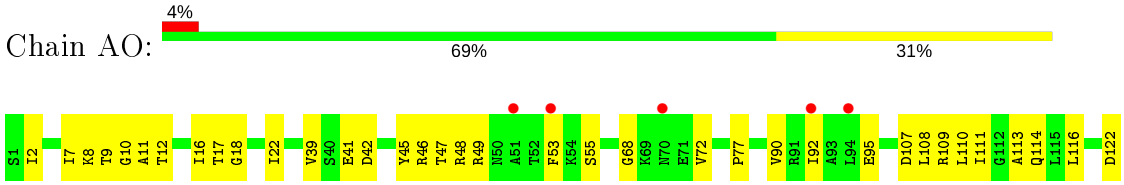
• Molecule 1: coat protein

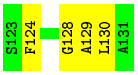
Chain AN:



• Molecule 1: coat protein

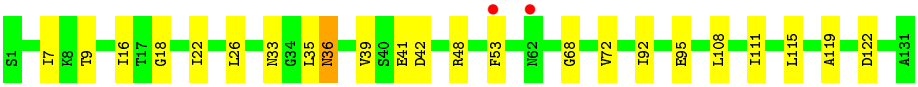
Chain AO:





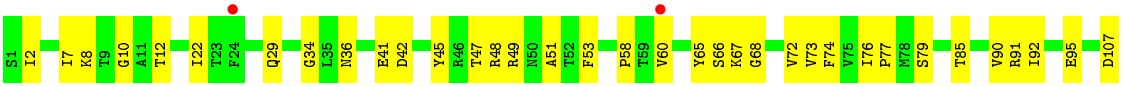
- Molecule 1: coat protein

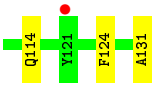
Chain AP:



- Molecule 1: coat protein

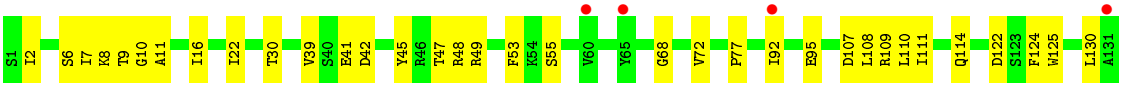
Chain AQ:





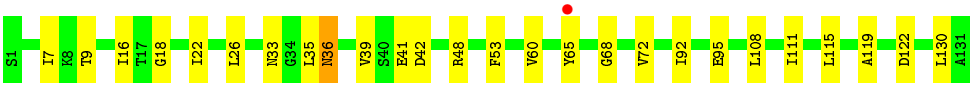
- Molecule 1: coat protein

Chain AR:



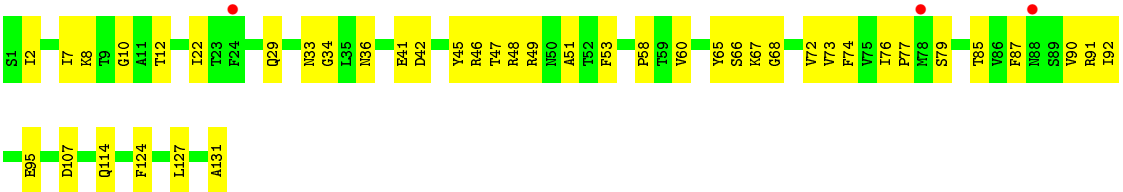
- Molecule 1: coat protein

Chain AS:



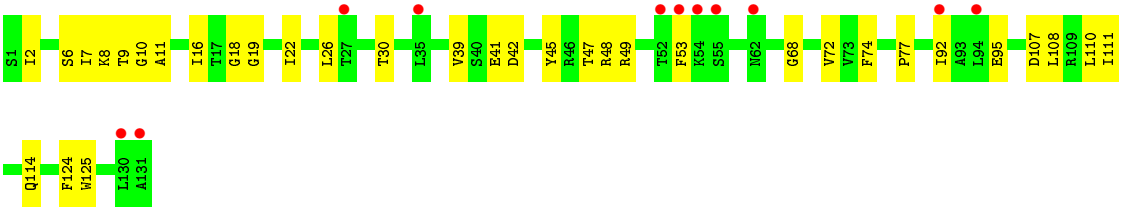
- Molecule 1: coat protein

Chain AT:

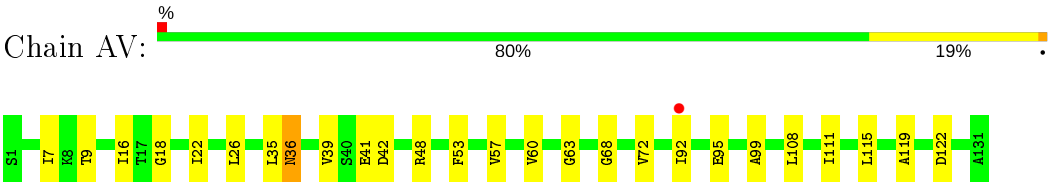


- Molecule 1: coat protein

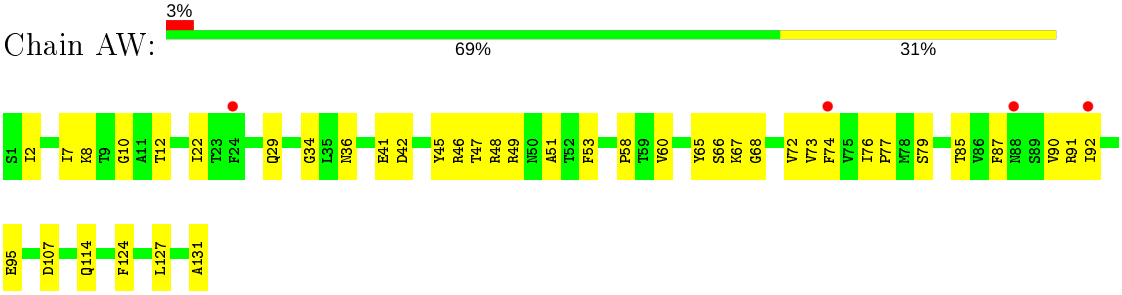
Chain AU:



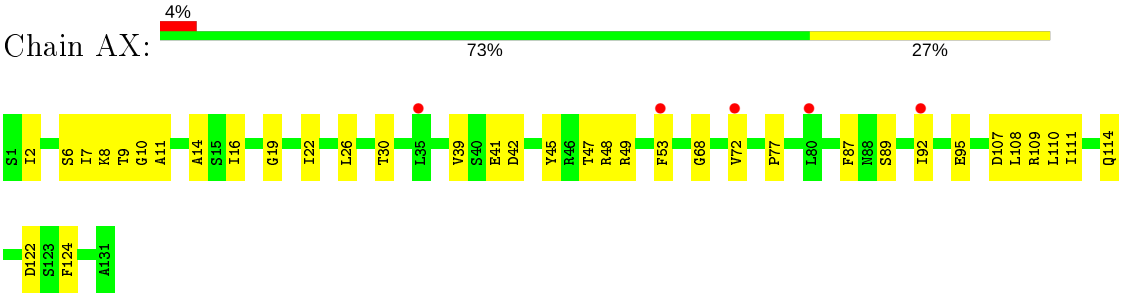
• Molecule 1: coat protein



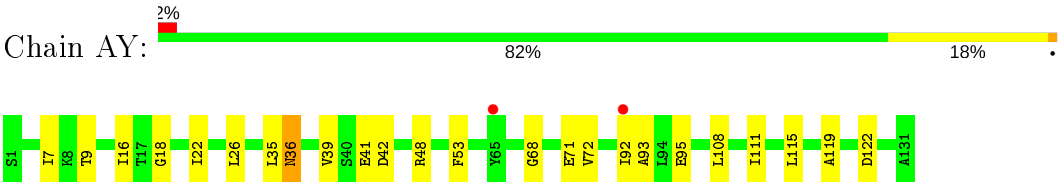
• Molecule 1: coat protein



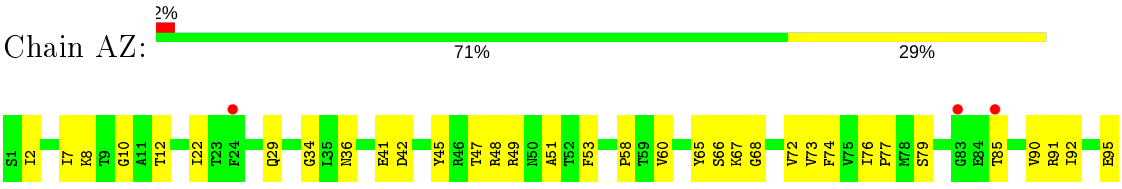
• Molecule 1: coat protein

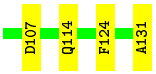


• Molecule 1: coat protein



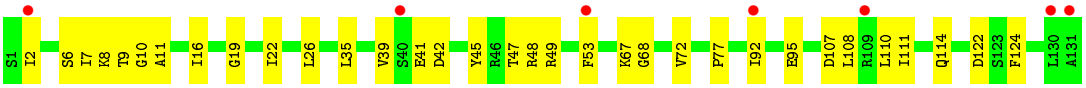
• Molecule 1: coat protein





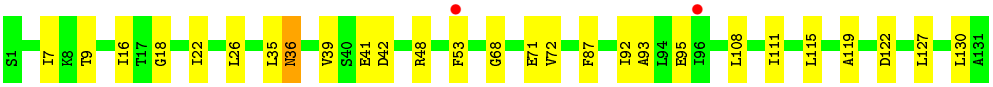
• Molecule 1: coat protein

Chain BA:



• Molecule 1: coat protein

Chain BB:

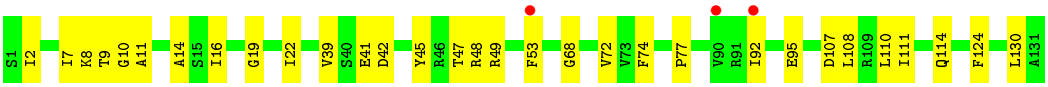


• Molecule 1: coat protein

Chain BC:

• Molecule 1: coat protein

Chain BD:



• Molecule 1: coat protein

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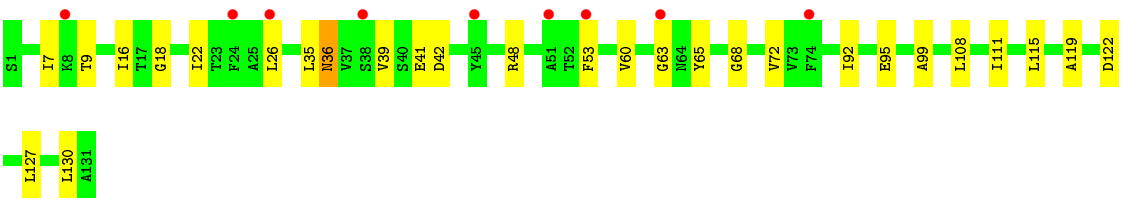
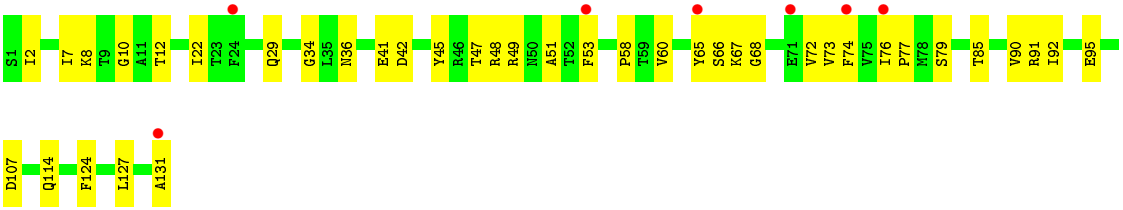


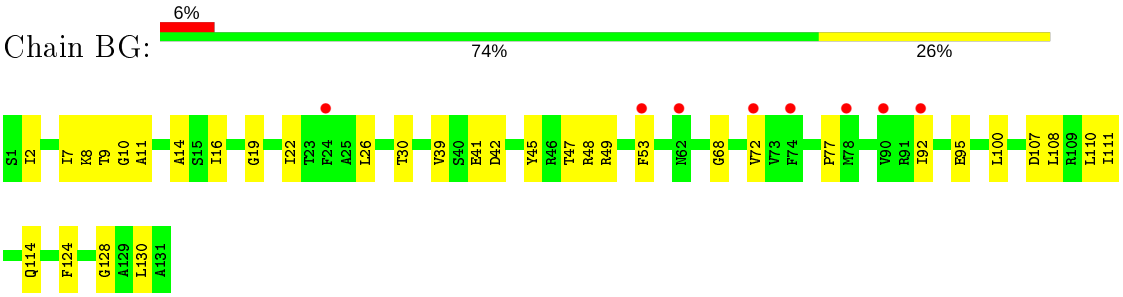
• Molecule 1: coat protein

Chain BF:



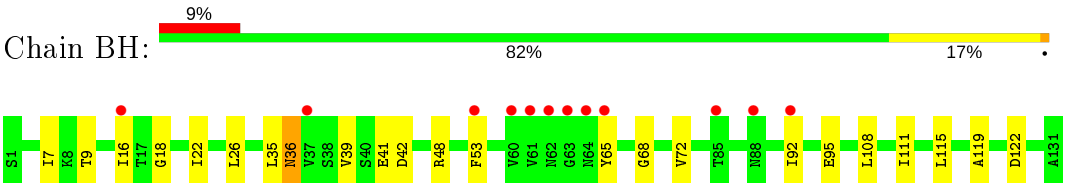
• Molecule 1: coat protein

Chain BG:



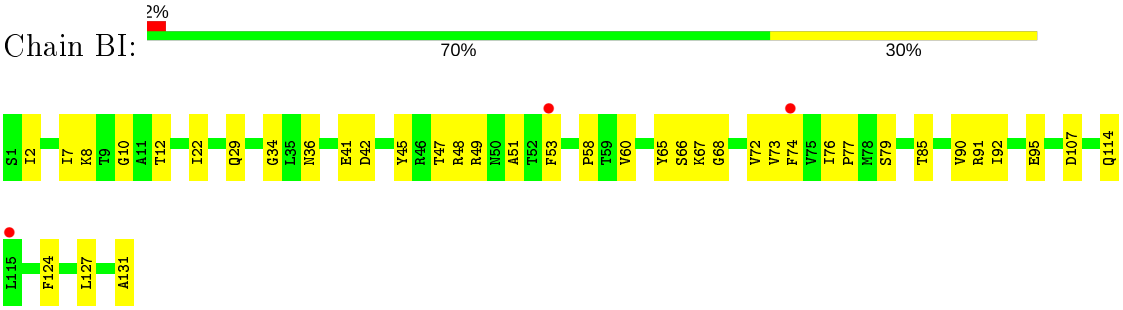
• Molecule 1: coat protein

Chain BH:



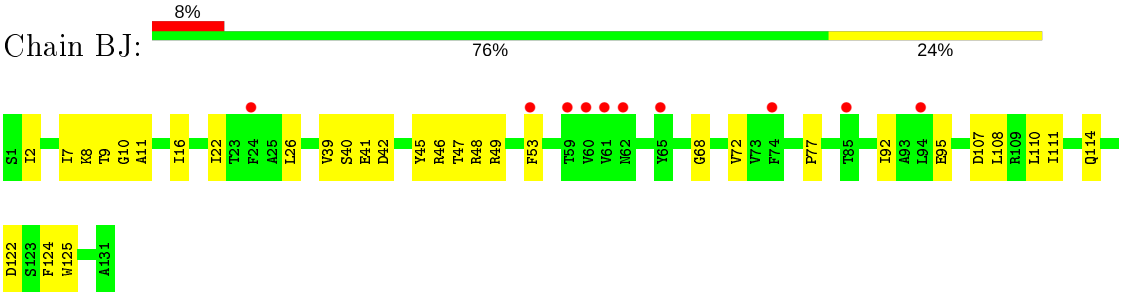
• Molecule 1: coat protein

Chain BI:



• Molecule 1: coat protein

Chain BJ:



• Molecule 1: coat protein

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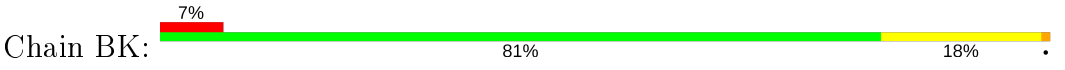
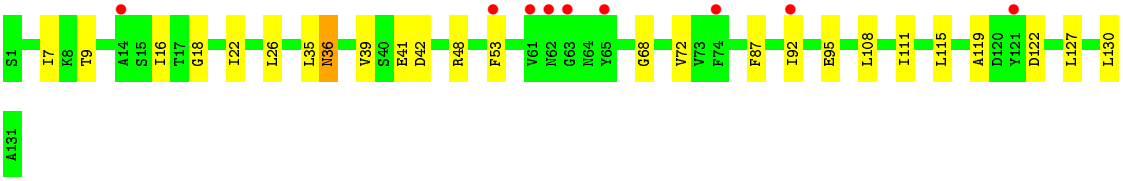
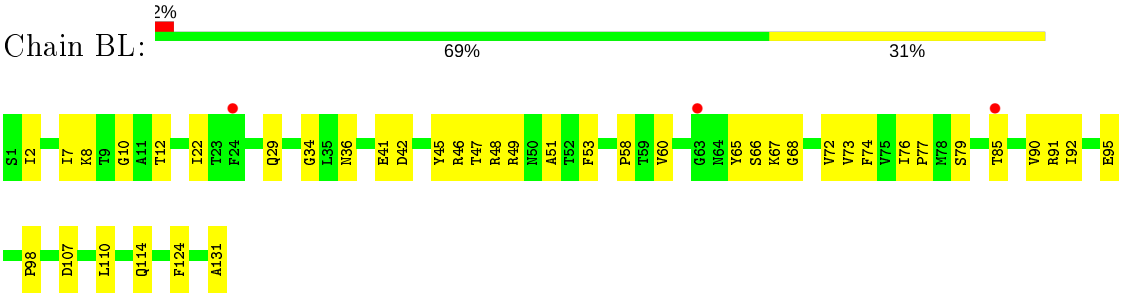
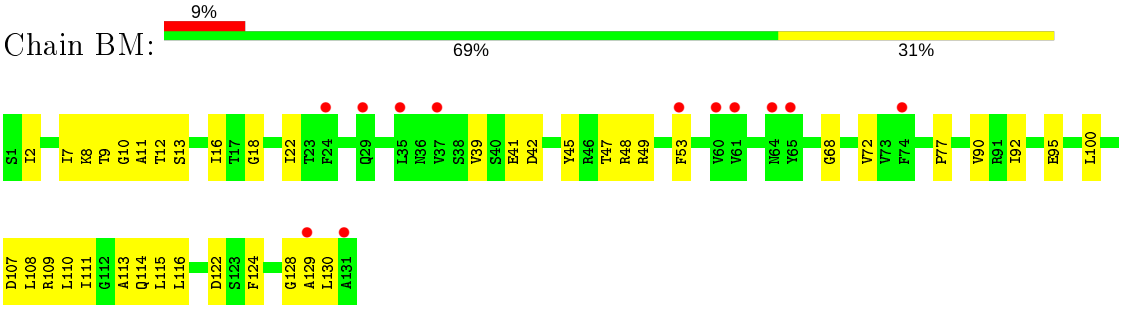




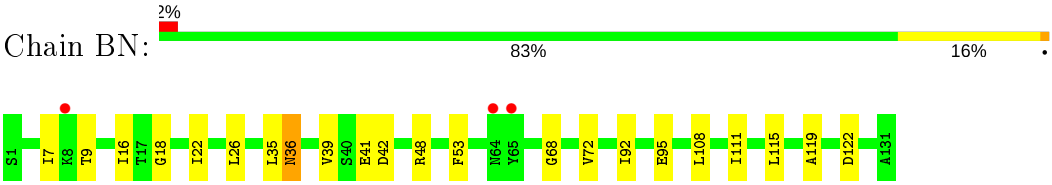
• Molecule 1: coat protein



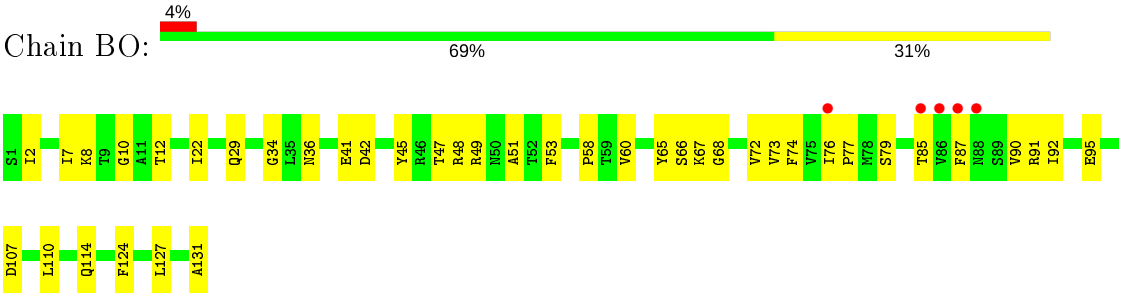
• Molecule 1: coat protein



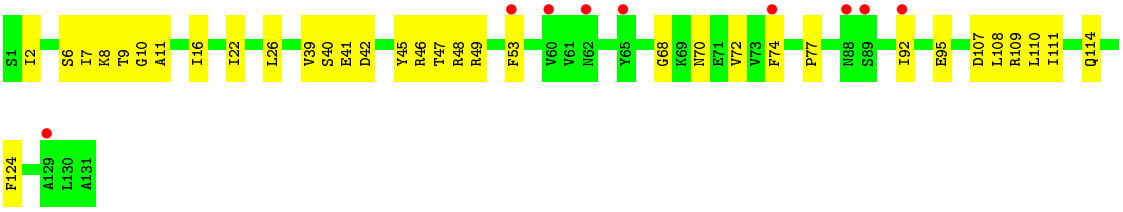
• Molecule 1: coat protein



• Molecule 1: coat protein

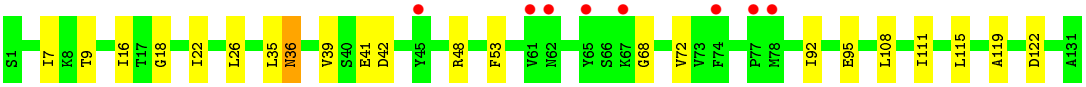


• Molecule 1: coat protein



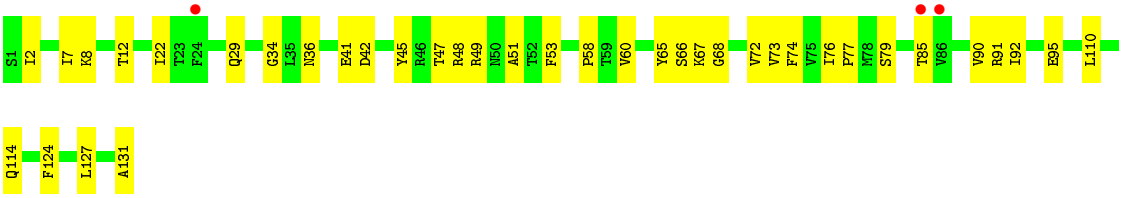
• Molecule 1: coat protein

Chain BQ:



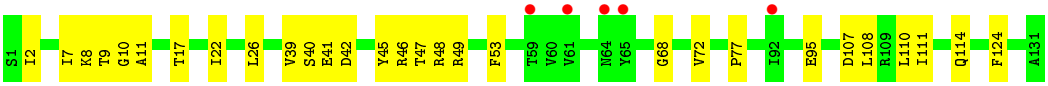
• Molecule 1: coat protein

Chain BR:



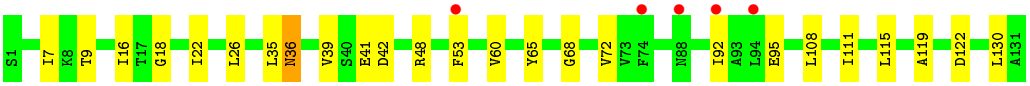
• Molecule 1: coat protein

Chain BS:



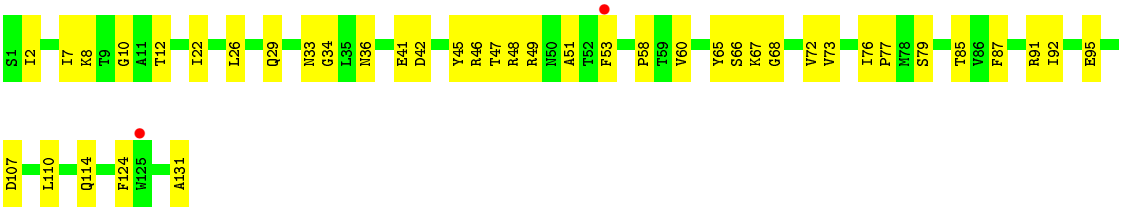
• Molecule 1: coat protein

Chain BT:



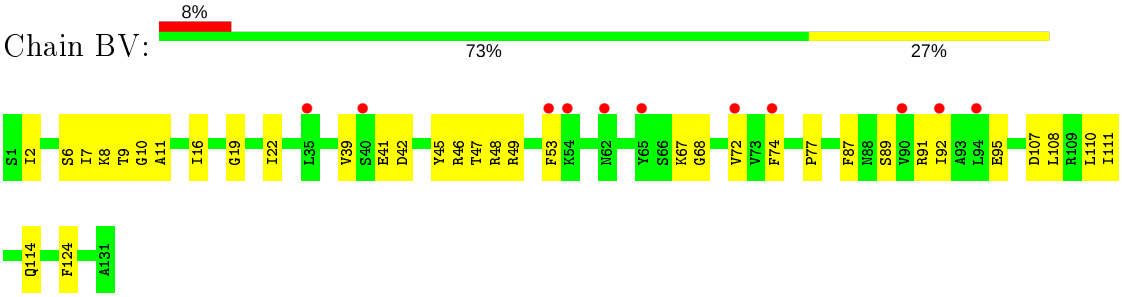
• Molecule 1: coat protein

Chain BU:



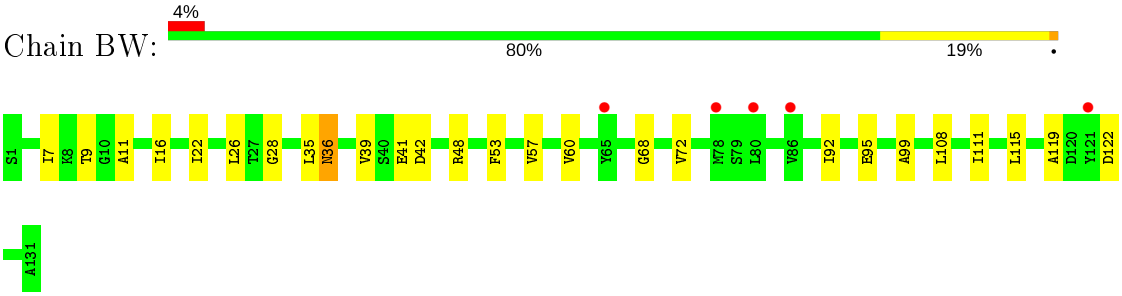
• Molecule 1: coat protein

Chain BV:



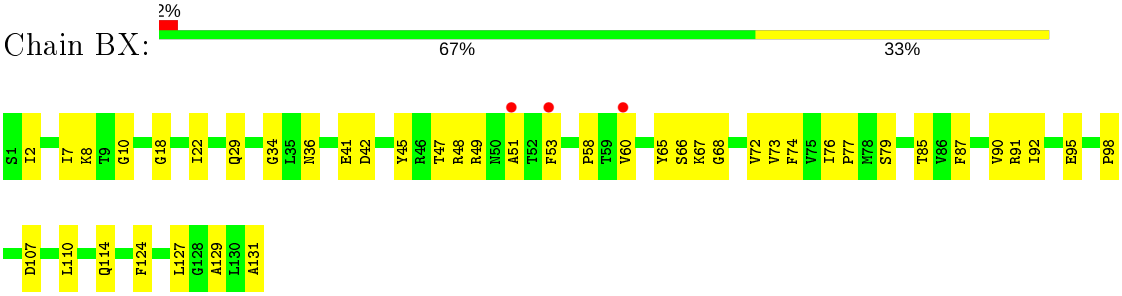
• Molecule 1: coat protein

Chain BW:



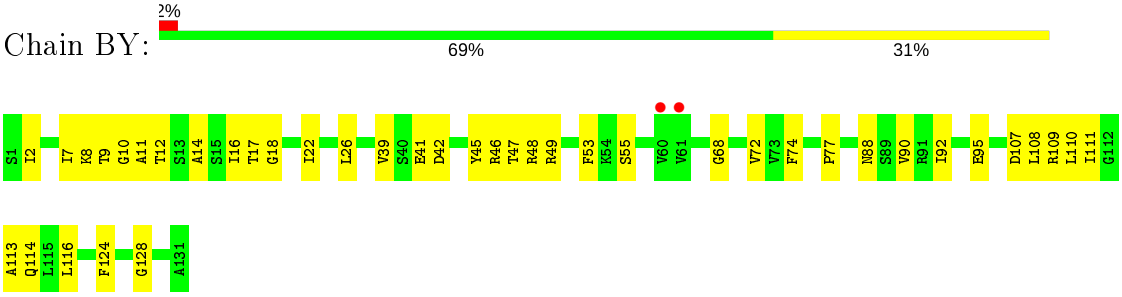
• Molecule 1: coat protein

Chain BX:



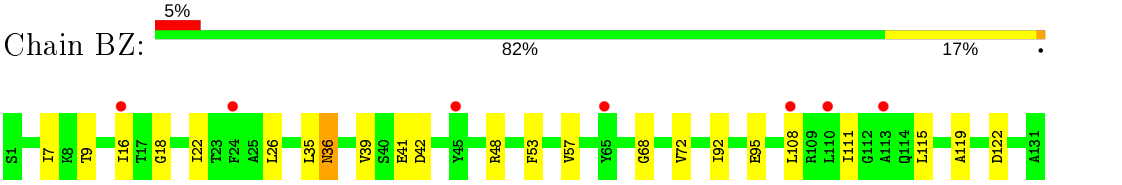
• Molecule 1: coat protein

Chain BY:



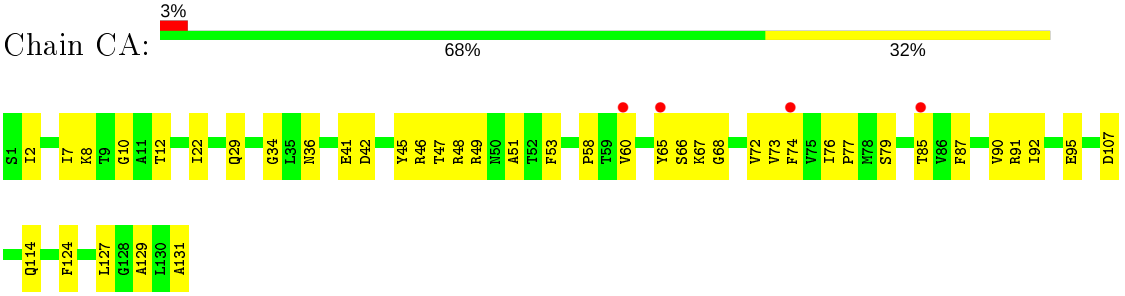
• Molecule 1: coat protein

Chain BZ:



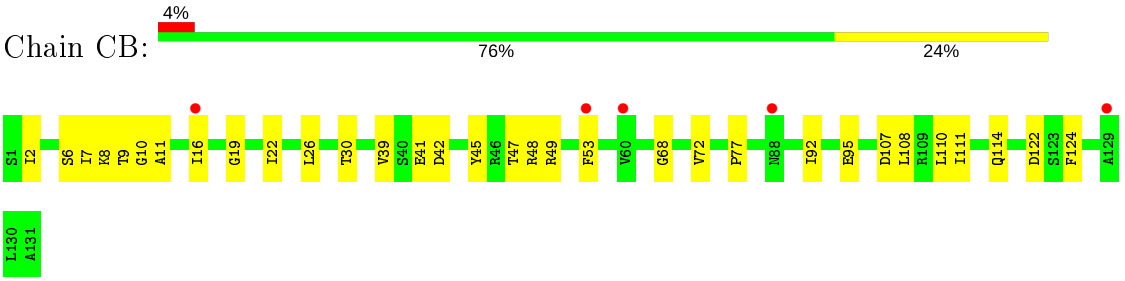
• Molecule 1: coat protein

Chain CA:



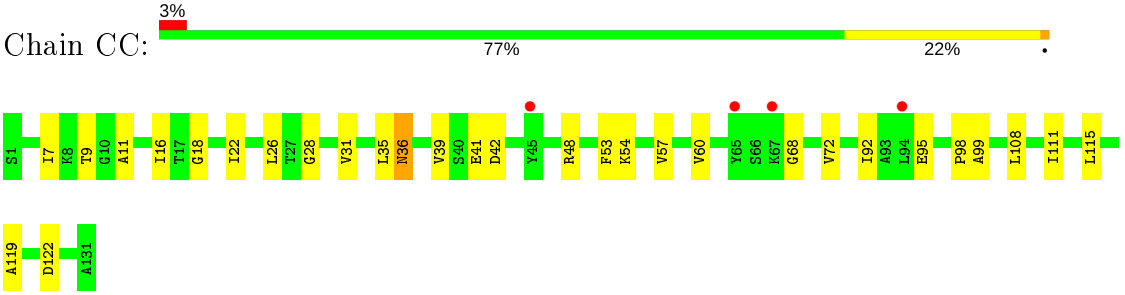
• Molecule 1: coat protein

Chain CB:



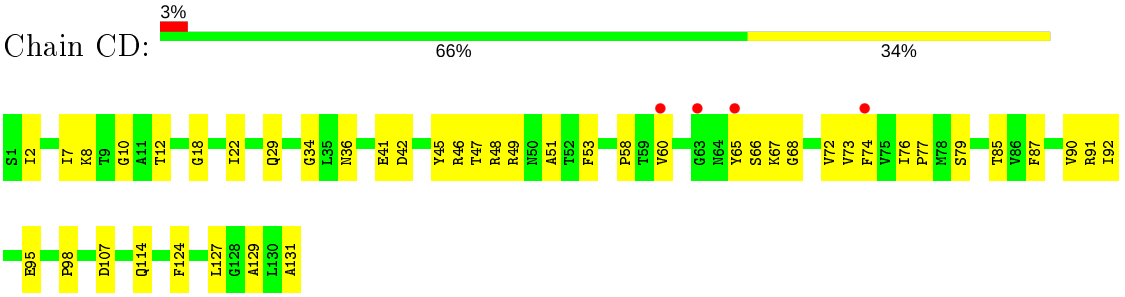
• Molecule 1: coat protein

Chain CC:



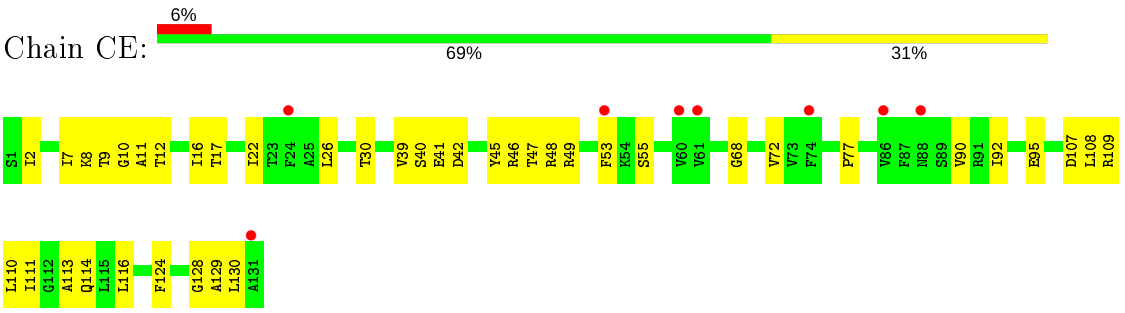
• Molecule 1: coat protein

Chain CD:



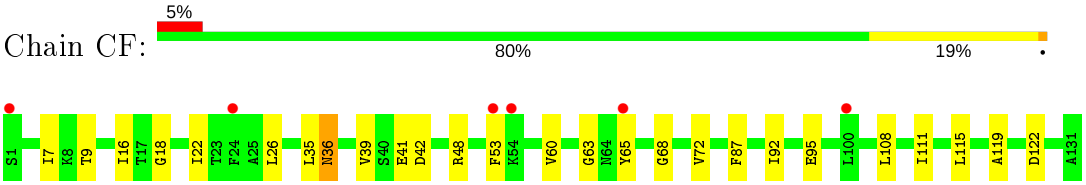
• Molecule 1: coat protein

Chain CE:



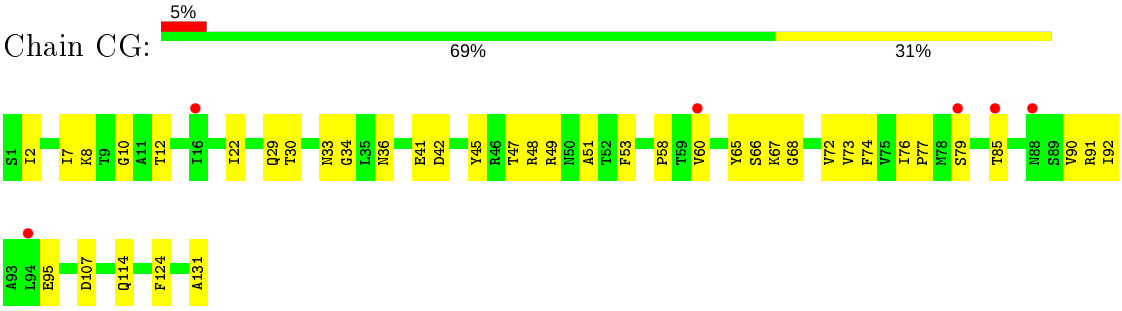
• Molecule 1: coat protein

Chain CF:



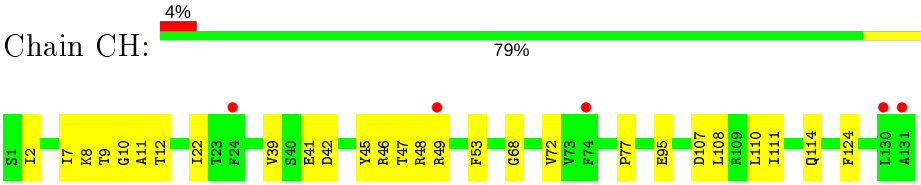
• Molecule 1: coat protein

Chain CG:



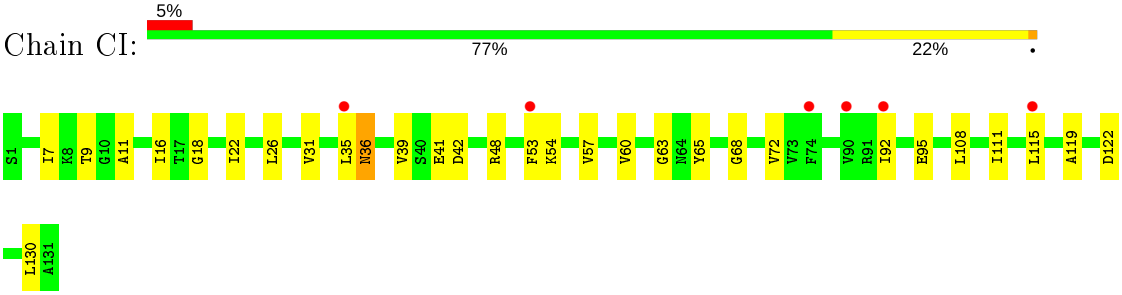
• Molecule 1: coat protein

Chain CH:



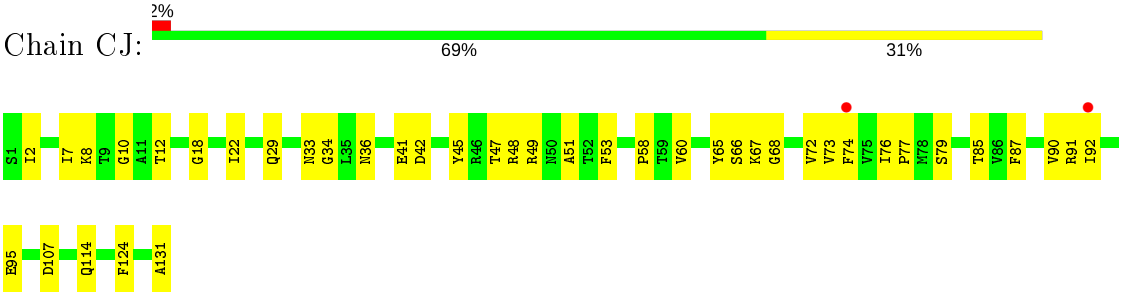
• Molecule 1: coat protein

Chain CI:



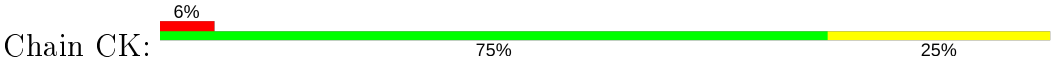
• Molecule 1: coat protein

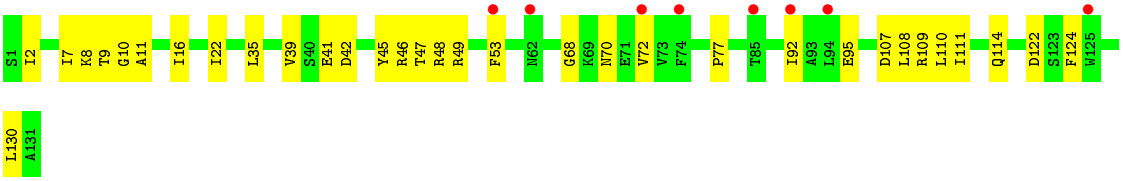
Chain CJ:



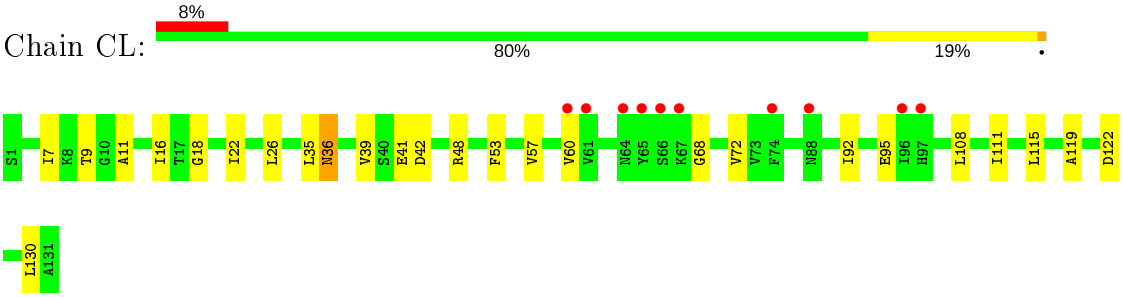
• Molecule 1: coat protein

Chain CK:

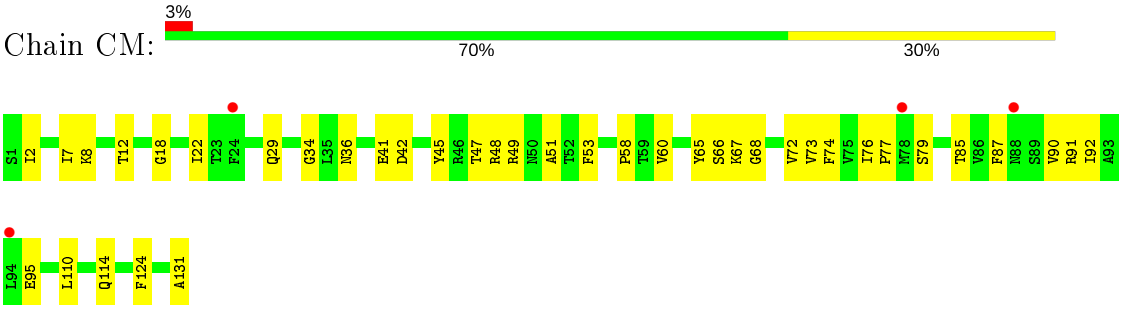




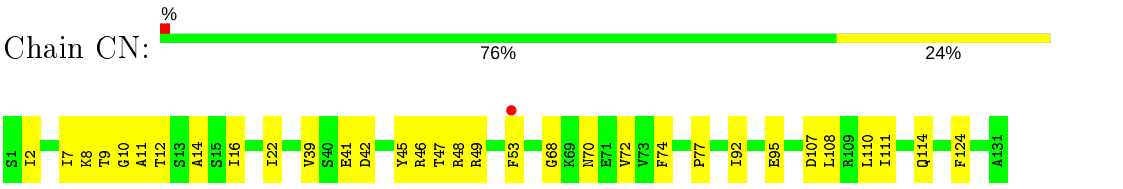
• Molecule 1: coat protein



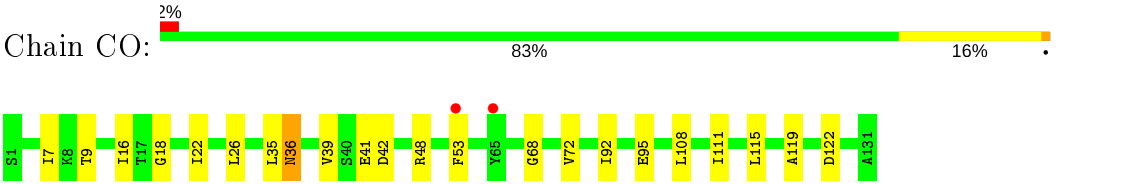
• Molecule 1: coat protein



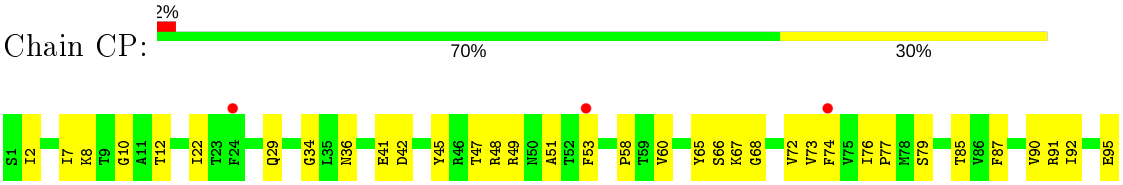
• Molecule 1: coat protein

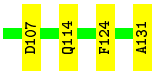


• Molecule 1: coat protein



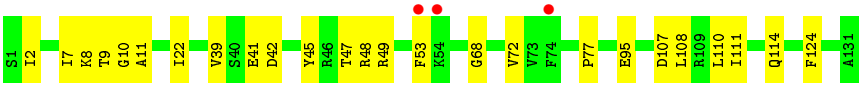
• Molecule 1: coat protein





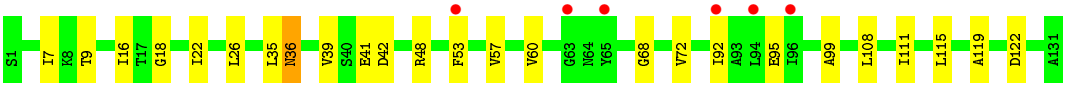
• Molecule 1: coat protein

Chain CQ:



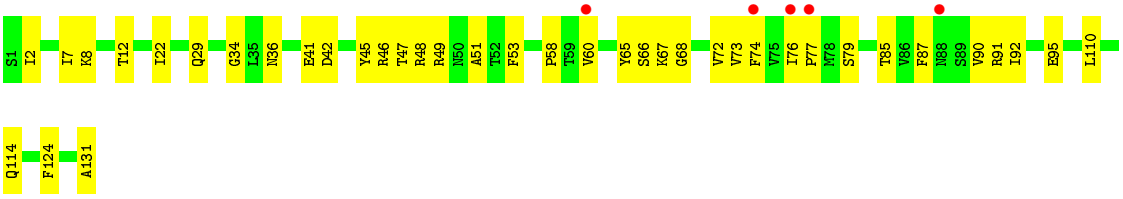
• Molecule 1: coat protein

Chain CR:



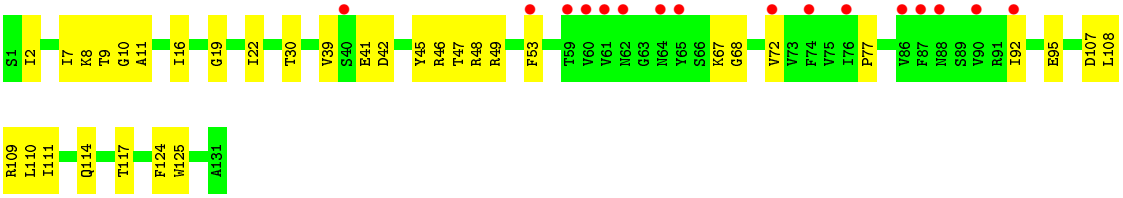
• Molecule 1: coat protein

Chain CS:



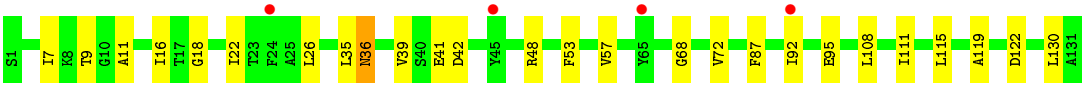
• Molecule 1: coat protein

Chain CT:



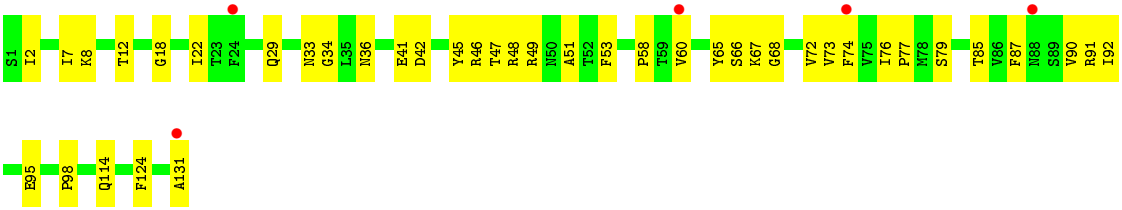
• Molecule 1: coat protein

Chain CU:

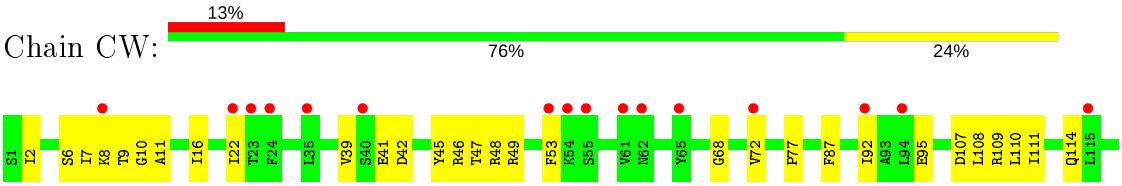


• Molecule 1: coat protein

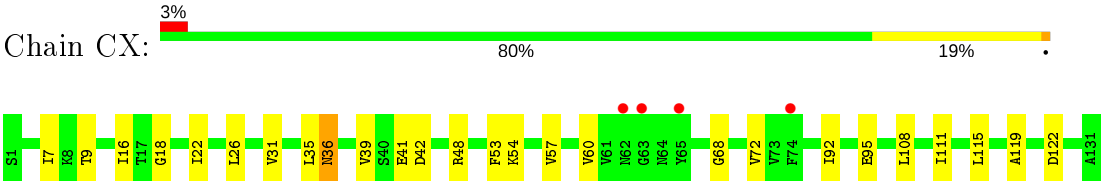
Chain CV:



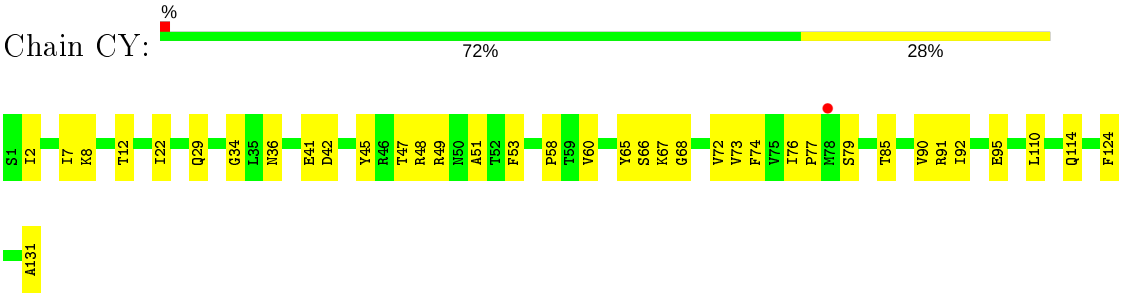
• Molecule 1: coat protein



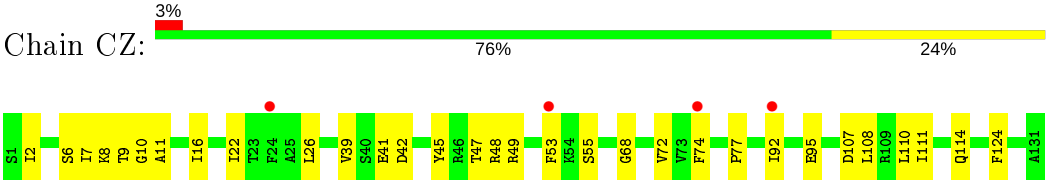
• Molecule 1: coat protein



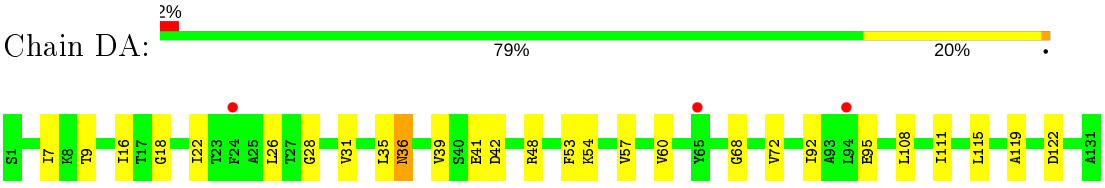
• Molecule 1: coat protein



• Molecule 1: coat protein

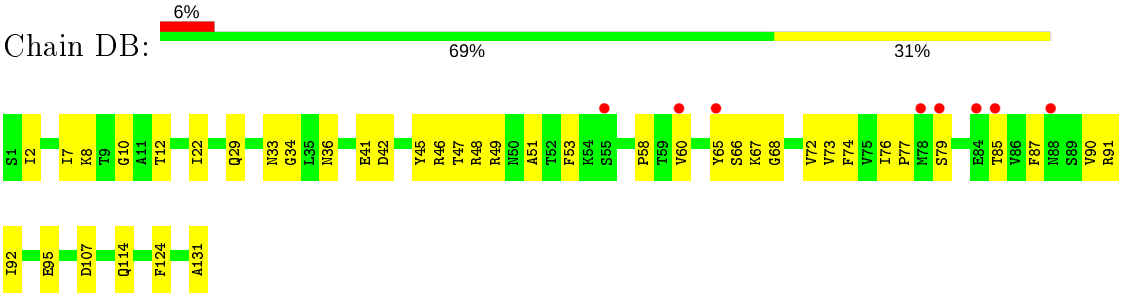


• Molecule 1: coat protein



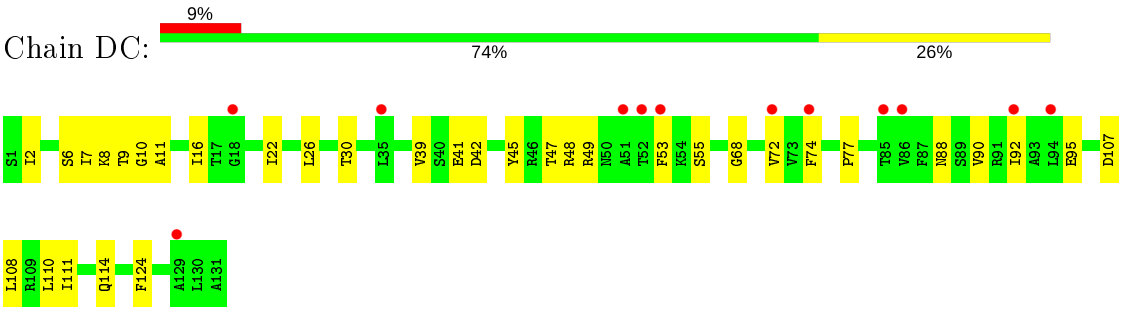
• Molecule 1: coat protein

Chain DB:



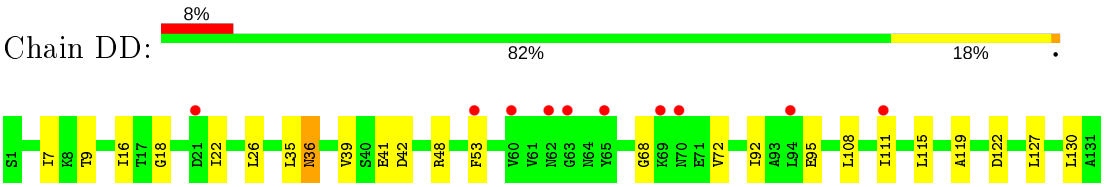
• Molecule 1: coat protein

Chain DC:



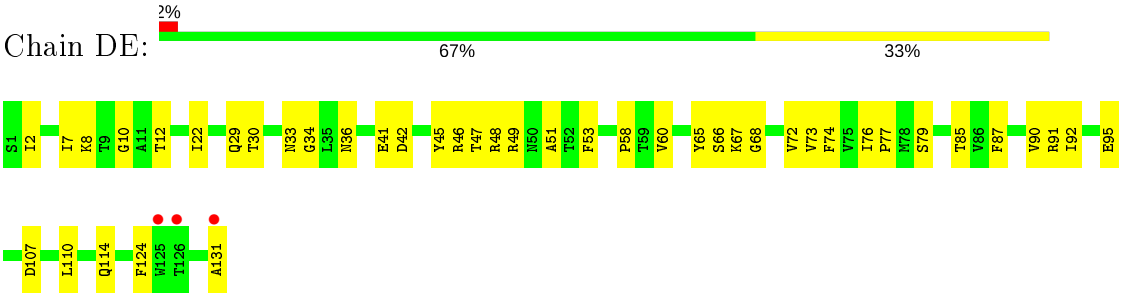
• Molecule 1: coat protein

Chain DD:



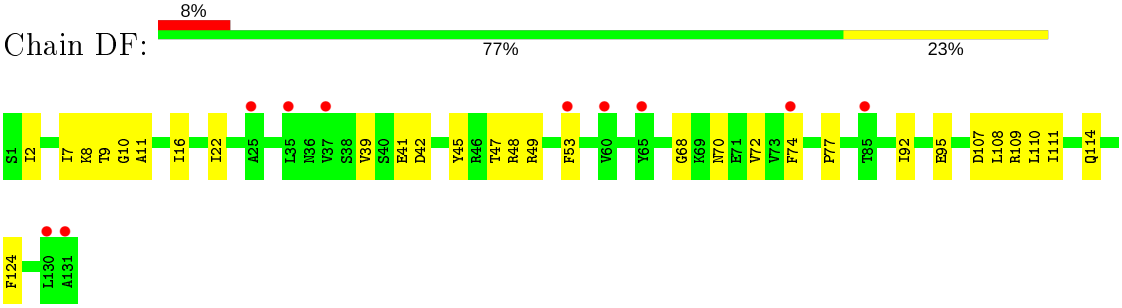
• Molecule 1: coat protein

Chain DE:



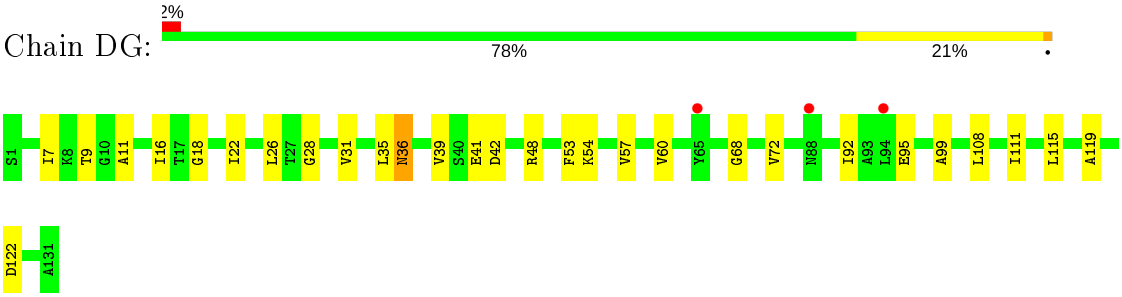
• Molecule 1: coat protein

Chain DF:



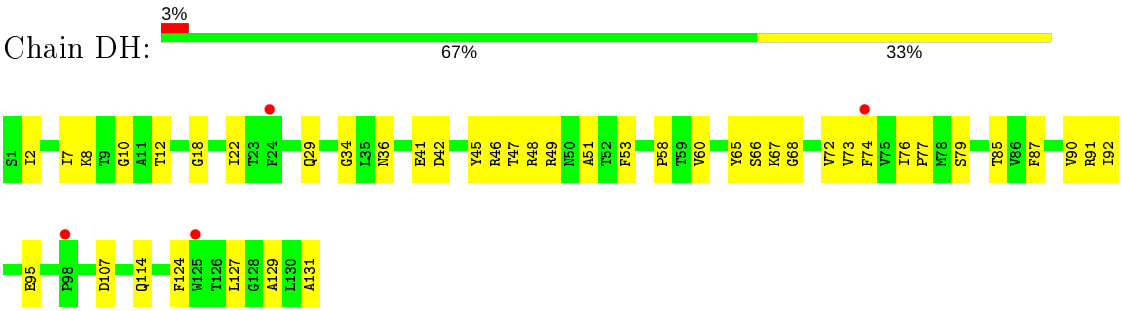
• Molecule 1: coat protein

Chain DG:



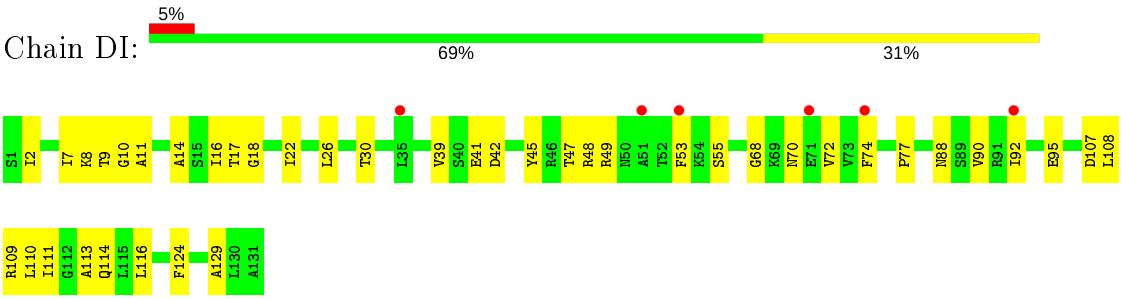
• Molecule 1: coat protein

Chain DH:



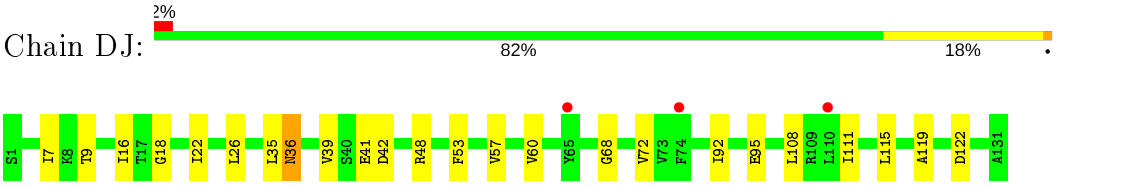
• Molecule 1: coat protein

Chain DI:



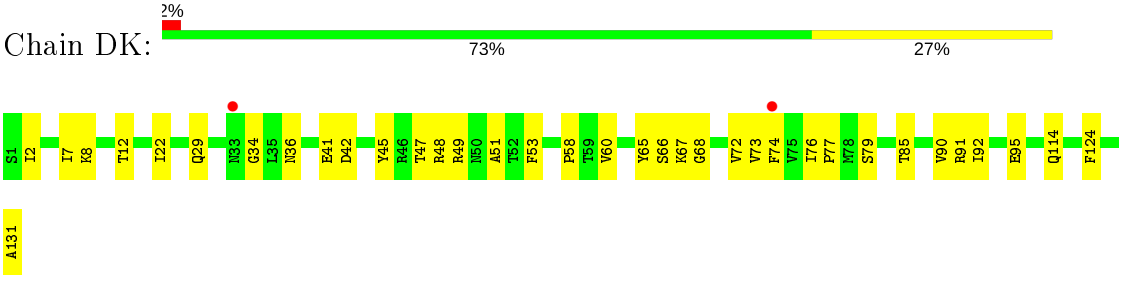
• Molecule 1: coat protein

Chain DJ:



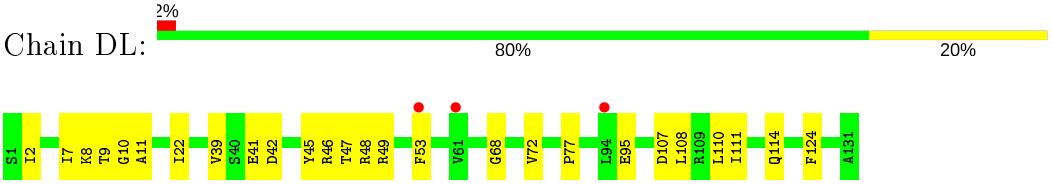
• Molecule 1: coat protein

Chain DK:



• Molecule 1: coat protein

Chain DL:


2%
80%
20%
S1
I2
I7
K8
T9
G10
A11
I22
V39
S40
E41
D42
Y45
R46
T47
R48
R49
F53
V61
G68
V72
P77
L94
E95
D107
L108
R109
L110
I111
Q114
F124
A131

4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α, β, γ	415.01Å 335.00Å 291.78Å 90.00° 134.66° 90.00°	Depositor
Resolution (Å)	49.14 – 3.48 49.14 – 3.48	Depositor EDS
% Data completeness (in resolution range)	96.5 (49.14-3.48) 98.2 (49.14-3.48)	Depositor EDS
R_{merge}	0.45	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	0.97 (at 3.48Å)	Xtriage
Refinement program	PHENIX 1.14_3260	Depositor
R, R_{free}	0.269 , 0.271 0.270 , 0.272	Depositor DCC
R_{free} test set	10004 reflections (2.83%)	wwPDB-VP
Wilson B-factor (Å^2)	121.7	Xtriage
Anisotropy	0.231	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.28 , 72.8	EDS
L-test for twinning[2]	$< \|L\| > = 0.37$, $< L^2 > = 0.20$	Xtriage
Estimated twinning fraction	0.079 for h+2*l,k,-h-l 0.094 for h,-k,-h-l 0.095 for -h-2*l,-k,l	Xtriage
F_o,F_c correlation	0.89	EDS
Total number of atoms	87480	wwPDB-VP
Average B, all atoms (Å^2)	110.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.44% 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

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	0.32	0/985	0.57	0/1338
1	AB	0.31	0/985	0.57	0/1338
1	AC	0.31	0/985	0.56	0/1338
1	AD	0.32	0/985	0.57	0/1338
1	AE	0.31	0/985	0.57	0/1338
1	AF	0.31	0/985	0.57	0/1338
1	AG	0.32	0/985	0.57	0/1338
1	AH	0.31	0/985	0.57	0/1338
1	AI	0.31	0/985	0.56	0/1338
1	AJ	0.32	0/985	0.57	0/1338
1	AK	0.31	0/985	0.57	0/1338
1	AL	0.31	0/985	0.56	0/1338
1	AM	0.32	0/985	0.57	0/1338
1	AN	0.31	0/985	0.57	0/1338
1	AO	0.31	0/985	0.56	0/1338
1	AP	0.32	0/985	0.57	0/1338
1	AQ	0.31	0/985	0.57	0/1338
1	AR	0.31	0/985	0.56	0/1338
1	AS	0.32	0/985	0.57	0/1338
1	AT	0.31	0/985	0.57	0/1338
1	AU	0.31	0/985	0.56	0/1338
1	AV	0.32	0/985	0.57	0/1338
1	AW	0.31	0/985	0.57	0/1338
1	AX	0.31	0/985	0.56	0/1338
1	AY	0.32	0/985	0.57	0/1338
1	AZ	0.31	0/985	0.57	0/1338
1	BA	0.31	0/985	0.57	0/1338
1	BB	0.32	0/985	0.57	0/1338
1	BC	0.31	0/985	0.57	0/1338
1	BD	0.31	0/985	0.57	0/1338
1	BE	0.32	0/985	0.57	0/1338
1	BF	0.31	0/985	0.57	0/1338
1	BG	0.31	0/985	0.56	0/1338
1	BH	0.32	0/985	0.57	0/1338

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
1	BI	0.31	0/985	0.57	0/1338
1	BJ	0.31	0/985	0.56	0/1338
1	BK	0.32	0/985	0.57	0/1338
1	BL	0.31	0/985	0.57	0/1338
1	BM	0.31	0/985	0.57	0/1338
1	BN	0.32	0/985	0.57	0/1338
1	BO	0.31	0/985	0.57	0/1338
1	BP	0.31	0/985	0.57	0/1338
1	BQ	0.32	0/985	0.57	0/1338
1	BR	0.31	0/985	0.57	0/1338
1	BS	0.31	0/985	0.57	0/1338
1	BT	0.32	0/985	0.57	0/1338
1	BU	0.31	0/985	0.57	0/1338
1	BV	0.31	0/985	0.56	0/1338
1	BW	0.32	0/985	0.58	0/1338
1	BX	0.31	0/985	0.57	0/1338
1	BY	0.31	0/985	0.57	0/1338
1	BZ	0.32	0/985	0.57	0/1338
1	CA	0.31	0/985	0.57	0/1338
1	CB	0.31	0/985	0.57	0/1338
1	CC	0.32	0/985	0.57	0/1338
1	CD	0.31	0/985	0.57	0/1338
1	CE	0.31	0/985	0.56	0/1338
1	CF	0.32	0/985	0.57	0/1338
1	CG	0.31	0/985	0.57	0/1338
1	CH	0.31	0/985	0.57	0/1338
1	CI	0.32	0/985	0.57	0/1338
1	CJ	0.31	0/985	0.57	0/1338
1	CK	0.31	0/985	0.56	0/1338
1	CL	0.32	0/985	0.57	0/1338
1	CM	0.31	0/985	0.57	0/1338
1	CN	0.31	0/985	0.57	0/1338
1	CO	0.32	0/985	0.57	0/1338
1	CP	0.31	0/985	0.57	0/1338
1	CQ	0.31	0/985	0.57	0/1338
1	CR	0.32	0/985	0.57	0/1338
1	CS	0.31	0/985	0.57	0/1338
1	CT	0.31	0/985	0.57	0/1338
1	CU	0.32	0/985	0.57	0/1338
1	CV	0.31	0/985	0.57	0/1338
1	CW	0.31	0/985	0.57	0/1338
1	CX	0.32	0/985	0.57	0/1338
1	CY	0.31	0/985	0.57	0/1338

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
1	CZ	0.31	0/985	0.57	0/1338
1	DA	0.32	0/985	0.57	0/1338
1	DB	0.31	0/985	0.57	0/1338
1	DC	0.31	0/985	0.56	0/1338
1	DD	0.32	0/985	0.57	0/1338
1	DE	0.31	0/985	0.57	0/1338
1	DF	0.31	0/985	0.57	0/1338
1	DG	0.32	0/985	0.57	0/1338
1	DH	0.31	0/985	0.57	0/1338
1	DI	0.31	0/985	0.57	0/1338
1	DJ	0.32	0/985	0.57	0/1338
1	DK	0.31	0/985	0.57	0/1338
1	DL	0.31	0/985	0.57	0/1338
All	All	0.31	0/88650	0.57	0/120420

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	972	0	977	26	0
1	AB	972	0	977	39	0
1	AC	972	0	977	39	0
1	AD	972	0	977	25	0
1	AE	972	0	977	41	0
1	AF	972	0	977	41	0
1	AG	972	0	977	27	0
1	AH	972	0	977	38	0
1	AI	972	0	977	52	0
1	AJ	972	0	977	26	0
1	AK	972	0	977	40	0
1	AL	972	0	977	34	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AM	972	0	977	26	0
1	AN	972	0	977	33	0
1	AO	972	0	977	51	0
1	AP	972	0	977	20	1
1	AQ	972	0	977	29	0
1	AR	972	0	977	35	1
1	AS	972	0	977	28	0
1	AT	972	0	977	39	0
1	AU	972	0	977	37	0
1	AV	972	0	977	25	0
1	AW	972	0	977	38	0
1	AX	972	0	977	35	0
1	AY	972	0	977	21	0
1	AZ	972	0	977	29	0
1	BA	972	0	977	31	0
1	BB	972	0	977	24	0
1	BC	972	0	977	39	0
1	BD	972	0	977	33	0
1	BE	972	0	977	29	0
1	BF	972	0	977	41	0
1	BG	972	0	977	39	0
1	BH	972	0	977	21	0
1	BI	972	0	977	31	0
1	BJ	972	0	977	42	0
1	BK	972	0	977	24	0
1	BL	972	0	977	42	0
1	BM	972	0	977	55	0
1	BN	972	0	977	20	0
1	BO	972	0	977	36	0
1	BP	972	0	977	45	0
1	BQ	972	0	977	21	0
1	BR	972	0	977	33	0
1	BS	972	0	977	29	1
1	BT	972	0	977	24	0
1	BU	972	0	977	36	0
1	BV	972	0	977	40	0
1	BW	972	0	977	26	0
1	BX	972	0	977	43	0
1	BY	972	0	977	53	0
1	BZ	972	0	977	21	0
1	CA	972	0	977	44	0
1	CB	972	0	977	31	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	CC	972	0	977	29	0
1	CD	972	0	977	46	0
1	CE	972	0	977	51	0
1	CF	972	0	977	27	0
1	CG	972	0	977	30	2
1	CH	972	0	977	26	1
1	CI	972	0	977	28	0
1	CJ	972	0	977	34	0
1	CK	972	0	977	44	0
1	CL	972	0	977	25	0
1	CM	972	0	977	34	0
1	CN	972	0	977	42	0
1	CO	972	0	977	20	0
1	CP	972	0	977	36	0
1	CQ	972	0	977	19	0
1	CR	972	0	977	24	0
1	CS	972	0	977	36	0
1	CT	972	0	977	35	0
1	CU	972	0	977	24	0
1	CV	972	0	977	38	0
1	CW	972	0	977	35	0
1	CX	972	0	977	24	0
1	CY	972	0	977	35	0
1	CZ	972	0	977	34	0
1	DA	972	0	977	25	0
1	DB	972	0	977	35	0
1	DC	972	0	977	38	0
1	DD	972	0	977	24	0
1	DE	972	0	977	38	0
1	DF	972	0	977	32	0
1	DG	972	0	977	29	0
1	DH	972	0	977	40	0
1	DI	972	0	977	55	0
1	DJ	972	0	977	23	0
1	DK	972	0	977	28	0
1	DL	972	0	977	21	0
All	All	87480	0	87930	2312	3

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 13.

All (2312) 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:BA:16:ILE:HD13	1:CW:114:GLN:HE21	1.10	1.14
1:AX:16:ILE:HD13	1:CT:114:GLN:HE21	1.12	1.12
1:BA:114:GLN:HE21	1:CW:16:ILE:HD13	1.11	1.10
1:AX:114:GLN:HE21	1:CT:16:ILE:HD13	1.18	1.08
1:AL:16:ILE:HD13	1:CB:114:GLN:HE21	1.19	1.07
1:AL:114:GLN:HE21	1:CB:16:ILE:HD13	1.17	1.03
1:BF:65:TYR:CD2	1:BS:46:ARG:HG2	1.98	0.97
1:AR:114:GLN:HE21	1:CK:16:ILE:HD13	1.28	0.96
1:AF:92:ILE:HG12	1:BV:92:ILE:HG12	1.53	0.91
1:AI:110:LEU:HD23	1:BY:16:ILE:HD11	1.50	0.91
1:BA:16:ILE:HD13	1:CW:114:GLN:NE2	1.86	0.90
1:BM:16:ILE:HD13	1:DI:114:GLN:HE21	1.34	0.90
1:AR:16:ILE:HD13	1:CK:114:GLN:HE21	1.37	0.89
1:AF:16:ILE:HD13	1:BV:114:GLN:HE21	1.37	0.89
1:AO:16:ILE:HD11	1:CE:110:LEU:HD23	1.54	0.89
1:AO:16:ILE:HD13	1:CE:114:GLN:HE21	1.36	0.88
1:BA:114:GLN:NE2	1:CW:16:ILE:HD13	1.87	0.88
1:BM:110:LEU:HD23	1:DI:16:ILE:HD11	1.55	0.88
1:BJ:16:ILE:HD13	1:DF:114:GLN:HE21	1.38	0.87
1:AF:26:LEU:HB3	1:DD:130:LEU:O	1.74	0.87
1:AX:114:GLN:NE2	1:CT:16:ILE:HD13	1.89	0.86
1:AX:16:ILE:HD13	1:CT:114:GLN:NE2	1.91	0.86
1:BG:16:ILE:HD13	1:DC:114:GLN:HE21	1.41	0.86
1:BM:108:LEU:HD22	1:DI:90:VAL:HG12	1.55	0.86
1:AO:114:GLN:HE21	1:CE:16:ILE:HD13	1.39	0.85
1:BM:16:ILE:HD11	1:DI:110:LEU:HD23	1.58	0.85
1:AC:16:ILE:HD13	1:BP:114:GLN:HE21	1.40	0.85
1:AF:114:GLN:HE21	1:BV:16:ILE:HD13	1.40	0.85
1:AO:110:LEU:HD23	1:CE:16:ILE:HD11	1.57	0.85
1:CD:65:TYR:HE2	1:CK:46:ARG:HA	1.40	0.84
1:BJ:114:GLN:HE21	1:DF:16:ILE:HD13	1.42	0.84
1:AL:16:ILE:HD13	1:CB:114:GLN:NE2	1.93	0.84
1:BF:65:TYR:HD2	1:BS:46:ARG:HG2	1.41	0.83
1:AE:87:PHE:CE2	1:BE:60:VAL:HG11	2.12	0.83
1:BX:65:TYR:HE2	1:CN:46:ARG:HA	1.43	0.83
1:AE:87:PHE:HE2	1:BE:60:VAL:HG11	1.43	0.82
1:AA:16:ILE:HD13	1:AB:114:GLN:HE21	1.45	0.82
1:CU:16:ILE:HD13	1:CV:114:GLN:HE21	1.45	0.82
1:AJ:16:ILE:HD13	1:AK:114:GLN:HE21	1.45	0.82
1:AU:114:GLN:HE21	1:CN:16:ILE:HD13	1.44	0.82
1:DD:16:ILE:HD13	1:DE:114:GLN:HE21	1.45	0.82
1:BZ:16:ILE:HD13	1:CA:114:GLN:HE21	1.45	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BJ:46:ARG:HG2	1:BL:65:TYR:CD2	2.14	0.82
1:BW:16:ILE:HD13	1:BX:114:GLN:HE21	1.45	0.82
1:DA:16:ILE:HD13	1:DB:114:GLN:HE21	1.45	0.82
1:BE:16:ILE:HD13	1:BF:114:GLN:HE21	1.44	0.82
1:BN:16:ILE:HD13	1:BO:114:GLN:HE21	1.45	0.82
1:BQ:16:ILE:HD13	1:BR:114:GLN:HE21	1.45	0.82
1:AI:16:ILE:HD11	1:BY:110:LEU:HD23	1.62	0.82
1:DJ:16:ILE:HD13	1:DK:114:GLN:HE21	1.45	0.82
1:AV:16:ILE:HD13	1:AW:114:GLN:HE21	1.45	0.82
1:BH:16:ILE:HD13	1:BI:114:GLN:HE21	1.45	0.82
1:BJ:46:ARG:HG2	1:BL:65:TYR:HD2	1.45	0.82
1:AL:114:GLN:NE2	1:CB:16:ILE:HD13	1.95	0.82
1:CI:16:ILE:HD13	1:CJ:114:GLN:HE21	1.45	0.82
1:AY:16:ILE:HD13	1:AZ:114:GLN:HE21	1.45	0.81
1:CX:16:ILE:HD13	1:CY:114:GLN:HE21	1.45	0.81
1:AD:16:ILE:HD13	1:AE:114:GLN:HE21	1.44	0.81
1:CC:16:ILE:HD13	1:CD:114:GLN:HE21	1.45	0.81
1:CF:16:ILE:HD13	1:CG:114:GLN:HE21	1.45	0.81
1:CR:16:ILE:HD13	1:CS:114:GLN:HE21	1.45	0.81
1:BD:16:ILE:HD13	1:CZ:114:GLN:HE21	1.43	0.81
1:DG:16:ILE:HD13	1:DH:114:GLN:HE21	1.45	0.81
1:AA:57:VAL:HG21	1:DH:29:GLN:HG3	1.62	0.80
1:AS:16:ILE:HD13	1:AT:114:GLN:HE21	1.45	0.80
1:AG:16:ILE:HD13	1:AH:114:GLN:HE21	1.45	0.80
1:CL:16:ILE:HD13	1:CM:114:GLN:HE21	1.45	0.80
1:CO:16:ILE:HD13	1:CP:114:GLN:HE21	1.45	0.80
1:AP:16:ILE:HD13	1:AQ:114:GLN:HE21	1.45	0.80
1:BT:16:ILE:HD13	1:BU:114:GLN:HE21	1.45	0.80
1:BB:16:ILE:HD13	1:BC:114:GLN:HE21	1.45	0.80
1:AI:16:ILE:HD13	1:BY:114:GLN:HE21	1.46	0.80
1:AM:16:ILE:HD13	1:AN:114:GLN:HE21	1.45	0.80
1:BK:16:ILE:HD13	1:BL:114:GLN:HE21	1.45	0.79
1:BM:130:LEU:HD21	1:DI:55:SER:HB3	1.65	0.78
1:BG:7:ILE:O	1:DC:22:ILE:HG22	1.84	0.77
1:AA:130:LEU:O	1:AU:26:LEU:HB3	1.85	0.77
1:CD:87:PHE:HE2	1:CI:60:VAL:HG11	1.48	0.76
1:AU:16:ILE:HD13	1:CN:114:GLN:HE21	1.49	0.76
1:BC:65:TYR:CD2	1:BP:46:ARG:HG2	2.21	0.75
1:CA:65:TYR:CD2	1:CH:46:ARG:HG2	2.22	0.75
1:BD:114:GLN:HE21	1:CZ:16:ILE:HD13	1.51	0.75
1:DG:16:ILE:HD13	1:DH:114:GLN:NE2	2.02	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CU:16:ILE:HD13	1:CV:114:GLN:NE2	2.02	0.75
1:AS:16:ILE:HD13	1:AT:114:GLN:NE2	2.02	0.74
1:AY:16:ILE:HD13	1:AZ:114:GLN:NE2	2.02	0.74
1:CI:16:ILE:HD13	1:CJ:114:GLN:NE2	2.02	0.74
1:BF:65:TYR:CE2	1:BS:46:ARG:HG2	2.22	0.74
1:BZ:16:ILE:HD13	1:CA:114:GLN:NE2	2.02	0.74
1:CD:87:PHE:CE2	1:CI:60:VAL:HG11	2.22	0.74
1:CO:16:ILE:HD13	1:CP:114:GLN:NE2	2.02	0.74
1:BQ:16:ILE:HD13	1:BR:114:GLN:NE2	2.02	0.74
1:CX:16:ILE:HD13	1:CY:114:GLN:NE2	2.02	0.74
1:AD:16:ILE:HD13	1:AE:114:GLN:NE2	2.02	0.74
1:AJ:16:ILE:HD13	1:AK:114:GLN:NE2	2.02	0.74
1:BH:16:ILE:HD13	1:BI:114:GLN:NE2	2.02	0.74
1:CA:87:PHE:CE2	1:CF:60:VAL:HG11	2.21	0.74
1:CA:46:ARG:HG3	1:CF:65:TYR:CE2	2.21	0.74
1:DA:16:ILE:HD13	1:DB:114:GLN:NE2	2.02	0.74
1:BM:12:THR:OG1	1:DI:17:THR:O	2.06	0.74
1:AT:87:PHE:HE2	1:AV:60:VAL:HG11	1.53	0.74
1:BE:16:ILE:HD13	1:BF:114:GLN:NE2	2.02	0.74
1:BW:16:ILE:HD13	1:BX:114:GLN:NE2	2.02	0.74
1:BM:100:LEU:HD13	1:DI:88:ASN:ND2	2.02	0.74
1:DJ:16:ILE:HD13	1:DK:114:GLN:NE2	2.02	0.74
1:AA:16:ILE:HD13	1:AB:114:GLN:NE2	2.02	0.74
1:AM:16:ILE:HD13	1:AN:114:GLN:NE2	2.02	0.74
1:BB:16:ILE:HD13	1:BC:114:GLN:NE2	2.02	0.74
1:CC:16:ILE:HD13	1:CD:114:GLN:NE2	2.02	0.73
1:CR:16:ILE:HD13	1:CS:114:GLN:NE2	2.02	0.73
1:DD:16:ILE:HD13	1:DE:114:GLN:NE2	2.02	0.73
1:AP:16:ILE:HD13	1:AQ:114:GLN:NE2	2.02	0.73
1:BK:16:ILE:HD13	1:BL:114:GLN:NE2	2.02	0.73
1:BT:16:ILE:HD13	1:BU:114:GLN:NE2	2.02	0.73
1:CW:46:ARG:HG2	1:CY:65:TYR:CD2	2.23	0.73
1:AG:16:ILE:HD13	1:AH:114:GLN:NE2	2.02	0.73
1:AU:92:ILE:HG12	1:CN:92:ILE:HG12	1.70	0.73
1:CF:16:ILE:HD13	1:CG:114:GLN:NE2	2.02	0.73
1:AV:16:ILE:HD13	1:AW:114:GLN:NE2	2.02	0.72
1:BN:16:ILE:HD13	1:BO:114:GLN:NE2	2.02	0.72
1:CL:16:ILE:HD13	1:CM:114:GLN:NE2	2.02	0.72
1:BX:65:TYR:CD2	1:CN:46:ARG:HG2	2.24	0.72
1:BM:109:ARG:NH2	1:DI:116:LEU:O	2.22	0.72
1:CD:65:TYR:CE2	1:CK:46:ARG:HA	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:7:ILE:O	1:BP:22:ILE:HG22	1.89	0.72
1:AE:85:THR:N	1:BE:63:GLY:O	2.22	0.72
1:AF:30:THR:OG1	1:DE:33:ASN:OD1	2.08	0.71
1:AT:87:PHE:CE2	1:AV:60:VAL:HG11	2.25	0.71
1:CJ:8:LYS:HB2	1:CJ:114:GLN:HE22	1.56	0.71
1:AE:8:LYS:HB2	1:AE:114:GLN:HE22	1.56	0.71
1:AU:16:ILE:HD11	1:CN:110:LEU:HD23	1.73	0.71
1:DE:8:LYS:HB2	1:DE:114:GLN:HE22	1.56	0.71
1:CM:8:LYS:HB2	1:CM:114:GLN:HE22	1.56	0.71
1:AA:60:VAL:HG11	1:DH:87:PHE:HE2	1.55	0.71
1:CG:8:LYS:HB2	1:CG:114:GLN:HE22	1.56	0.71
1:AK:8:LYS:HB2	1:AK:114:GLN:HE22	1.56	0.71
1:AZ:8:LYS:HB2	1:AZ:114:GLN:HE22	1.56	0.71
1:BC:8:LYS:HB2	1:BC:114:GLN:HE22	1.56	0.71
1:BF:8:LYS:HB2	1:BF:114:GLN:HE22	1.56	0.71
1:BM:116:LEU:O	1:DI:109:ARG:NE	2.24	0.71
1:AN:8:LYS:HB2	1:AN:114:GLN:HE22	1.56	0.71
1:BM:109:ARG:HG2	1:DI:116:LEU:HD22	1.73	0.71
1:BR:8:LYS:HB2	1:BR:114:GLN:HE22	1.56	0.71
1:AC:92:ILE:HG12	1:BP:92:ILE:HG12	1.73	0.70
1:BG:111:ILE:HD13	1:DC:74:PHE:CZ	2.26	0.70
1:AB:8:LYS:HB2	1:AB:114:GLN:HE22	1.56	0.70
1:AQ:8:LYS:HB2	1:AQ:114:GLN:HE22	1.56	0.70
1:BX:8:LYS:HB2	1:BX:114:GLN:HE22	1.56	0.70
1:CR:60:VAL:HG11	1:DB:87:PHE:HE2	1.56	0.70
1:AH:8:LYS:HB2	1:AH:114:GLN:HE22	1.56	0.70
1:BM:129:ALA:HB2	1:DG:26:LEU:O	1.91	0.70
1:CV:8:LYS:HB2	1:CV:114:GLN:HE22	1.56	0.70
1:DH:8:LYS:HB2	1:DH:114:GLN:HE22	1.56	0.70
1:AW:8:LYS:HB2	1:AW:114:GLN:HE22	1.56	0.70
1:CA:8:LYS:HB2	1:CA:114:GLN:HE22	1.56	0.70
1:AI:130:LEU:HD21	1:BY:55:SER:HB3	1.73	0.70
1:BI:8:LYS:HB2	1:BI:114:GLN:HE22	1.56	0.70
1:BO:8:LYS:HB2	1:BO:114:GLN:HE22	1.56	0.70
1:CD:8:LYS:HB2	1:CD:114:GLN:HE22	1.56	0.70
1:CY:8:LYS:HB2	1:CY:114:GLN:HE22	1.56	0.70
1:BL:8:LYS:HB2	1:BL:114:GLN:HE22	1.56	0.70
1:BF:65:TYR:HE2	1:BS:46:ARG:HA	1.56	0.70
1:BU:8:LYS:HB2	1:BU:114:GLN:HE22	1.56	0.70
1:AC:114:GLN:HE21	1:BP:16:ILE:HD13	1.57	0.70
1:CD:65:TYR:CD2	1:CK:46:ARG:HG2	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:85:THR:N	1:CF:63:GLY:O	2.19	0.69
1:BX:65:TYR:CE2	1:CN:46:ARG:HA	2.26	0.69
1:DB:8:LYS:HB2	1:DB:114:GLN:HE22	1.56	0.69
1:DK:8:LYS:HB2	1:DK:114:GLN:HE22	1.56	0.69
1:CP:8:LYS:HB2	1:CP:114:GLN:HE22	1.56	0.69
1:CS:8:LYS:HB2	1:CS:114:GLN:HE22	1.56	0.69
1:AQ:2:ILE:HD11	1:AQ:124:PHE:HB2	1.75	0.69
1:AT:2:ILE:HD11	1:AT:124:PHE:HB2	1.75	0.69
1:CP:2:ILE:HD11	1:CP:124:PHE:HB2	1.75	0.69
1:AT:8:LYS:HB2	1:AT:114:GLN:HE22	1.56	0.69
1:BD:39:VAL:HG12	1:BD:41:GLU:H	1.58	0.69
1:AX:6:SER:HA	1:CT:22:ILE:O	1.93	0.69
1:CT:39:VAL:HG12	1:CT:41:GLU:H	1.58	0.69
1:BG:92:ILE:HG12	1:DC:92:ILE:HG12	1.74	0.69
1:AX:39:VAL:HG12	1:AX:41:GLU:H	1.58	0.68
1:AK:2:ILE:HD11	1:AK:124:PHE:HB2	1.75	0.68
1:CJ:2:ILE:HD11	1:CJ:124:PHE:HB2	1.75	0.68
1:CD:65:TYR:HD2	1:CK:46:ARG:HG2	1.56	0.68
1:DL:39:VAL:HG12	1:DL:41:GLU:H	1.59	0.68
1:AF:87:PHE:O	1:BV:67:LYS:NZ	2.20	0.68
1:BS:39:VAL:HG12	1:BS:41:GLU:H	1.58	0.68
1:DI:39:VAL:HG12	1:DI:41:GLU:H	1.59	0.68
1:AB:2:ILE:HD11	1:AB:124:PHE:HB2	1.75	0.68
1:AE:2:ILE:HD11	1:AE:124:PHE:HB2	1.75	0.68
1:AE:42:ASP:HB2	1:AE:48:ARG:HG2	1.76	0.68
1:AK:42:ASP:HB2	1:AK:48:ARG:HG2	1.76	0.68
1:BG:39:VAL:HG12	1:BG:41:GLU:H	1.58	0.68
1:BR:42:ASP:HB2	1:BR:48:ARG:HG2	1.76	0.68
1:BX:42:ASP:HB2	1:BX:48:ARG:HG2	1.76	0.68
1:CN:39:VAL:HG12	1:CN:41:GLU:H	1.59	0.68
1:DB:2:ILE:HD11	1:DB:124:PHE:HB2	1.75	0.68
1:DF:39:VAL:HG12	1:DF:41:GLU:H	1.58	0.68
1:BY:39:VAL:HG12	1:BY:41:GLU:H	1.58	0.68
1:CB:39:VAL:HG12	1:CB:41:GLU:H	1.58	0.68
1:AQ:42:ASP:HB2	1:AQ:48:ARG:HG2	1.76	0.68
1:AT:42:ASP:HB2	1:AT:48:ARG:HG2	1.76	0.68
1:BO:2:ILE:HD11	1:BO:124:PHE:HB2	1.76	0.68
1:AI:114:GLN:HE21	1:BY:16:ILE:HD13	1.57	0.68
1:AH:29:GLN:HG3	1:CC:57:VAL:HG21	1.75	0.68
1:CH:39:VAL:HG12	1:CH:41:GLU:H	1.58	0.68
1:CJ:42:ASP:HB2	1:CJ:48:ARG:HG2	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BX:65:TYR:HD2	1:CN:46:ARG:HG2	1.57	0.68
1:DA:42:ASP:HB2	1:DA:48:ARG:HG3	1.76	0.68
1:AI:39:VAL:HG12	1:AI:41:GLU:H	1.58	0.68
1:CY:2:ILE:HD11	1:CY:124:PHE:HB2	1.75	0.68
1:AF:39:VAL:HG12	1:AF:41:GLU:H	1.59	0.68
1:AW:42:ASP:HB2	1:AW:48:ARG:HG2	1.76	0.68
1:BM:39:VAL:HG12	1:BM:41:GLU:H	1.58	0.68
1:BU:42:ASP:HB2	1:BU:48:ARG:HG2	1.76	0.68
1:BX:2:ILE:HD11	1:BX:124:PHE:HB2	1.75	0.68
1:DG:42:ASP:HB2	1:DG:48:ARG:HG3	1.76	0.68
1:AM:42:ASP:HB2	1:AM:48:ARG:HG3	1.76	0.68
1:BK:42:ASP:HB2	1:BK:48:ARG:HG3	1.76	0.68
1:BP:39:VAL:HG12	1:BP:41:GLU:H	1.59	0.68
1:CO:42:ASP:HB2	1:CO:48:ARG:HG3	1.76	0.68
1:CQ:39:VAL:HG12	1:CQ:41:GLU:H	1.58	0.68
1:DK:42:ASP:HB2	1:DK:48:ARG:HG2	1.76	0.68
1:AD:42:ASP:HB2	1:AD:48:ARG:HG3	1.76	0.68
1:AP:92:ILE:HG12	1:AQ:92:ILE:HG12	1.76	0.68
1:CA:65:TYR:HD2	1:CH:46:ARG:HG2	1.58	0.68
1:CO:92:ILE:HG12	1:CP:92:ILE:HG12	1.76	0.68
1:CW:39:VAL:HG12	1:CW:41:GLU:H	1.59	0.68
1:DB:42:ASP:HB2	1:DB:48:ARG:HG2	1.76	0.68
1:DJ:42:ASP:HB2	1:DJ:48:ARG:HG3	1.76	0.68
1:AO:39:VAL:HG12	1:AO:41:GLU:H	1.59	0.67
1:BJ:16:ILE:HD11	1:DF:110:LEU:HD23	1.74	0.67
1:BK:92:ILE:HG12	1:BL:92:ILE:HG12	1.76	0.67
1:AE:29:GLN:OE1	1:AE:36:ASN:ND2	2.28	0.67
1:AH:42:ASP:HB2	1:AH:48:ARG:HG2	1.76	0.67
1:AU:39:VAL:HG12	1:AU:41:GLU:H	1.58	0.67
1:AZ:2:ILE:HD11	1:AZ:124:PHE:HB2	1.75	0.67
1:BB:42:ASP:HB2	1:BB:48:ARG:HG3	1.76	0.67
1:BC:42:ASP:HB2	1:BC:48:ARG:HG2	1.76	0.67
1:BJ:39:VAL:HG12	1:BJ:41:GLU:H	1.58	0.67
1:BO:42:ASP:HB2	1:BO:48:ARG:HG2	1.76	0.67
1:CV:29:GLN:OE1	1:CV:36:ASN:ND2	2.28	0.67
1:AJ:92:ILE:HG12	1:AK:92:ILE:HG12	1.76	0.67
1:AN:29:GLN:OE1	1:AN:36:ASN:ND2	2.28	0.67
1:AS:42:ASP:HB2	1:AS:48:ARG:HG3	1.76	0.67
1:BF:42:ASP:HB2	1:BF:48:ARG:HG2	1.76	0.67
1:BL:2:ILE:HD11	1:BL:124:PHE:HB2	1.75	0.67
1:BL:42:ASP:HB2	1:BL:48:ARG:HG2	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BC:65:TYR:HD2	1:BP:46:ARG:HG2	1.57	0.67
1:CP:29:GLN:OE1	1:CP:36:ASN:ND2	2.28	0.67
1:AB:29:GLN:OE1	1:AB:36:ASN:ND2	2.28	0.67
1:AB:42:ASP:HB2	1:AB:48:ARG:HG2	1.76	0.67
1:AV:92:ILE:HG12	1:AW:92:ILE:HG12	1.76	0.67
1:BI:29:GLN:OE1	1:BI:36:ASN:ND2	2.28	0.67
1:CD:42:ASP:HB2	1:CD:48:ARG:HG2	1.76	0.67
1:CI:92:ILE:HG12	1:CJ:92:ILE:HG12	1.76	0.67
1:CP:42:ASP:HB2	1:CP:48:ARG:HG2	1.76	0.67
1:CU:42:ASP:HB2	1:CU:48:ARG:HG3	1.76	0.67
1:BM:128:GLY:O	1:DG:28:GLY:HA3	1.95	0.67
1:DH:2:ILE:HD11	1:DH:124:PHE:HB2	1.75	0.67
1:AG:92:ILE:HG12	1:AH:92:ILE:HG12	1.76	0.67
1:AK:29:GLN:OE1	1:AK:36:ASN:ND2	2.28	0.67
1:BO:29:GLN:OE1	1:BO:36:ASN:ND2	2.28	0.67
1:CE:39:VAL:HG12	1:CE:41:GLU:H	1.58	0.67
1:CG:29:GLN:OE1	1:CG:36:ASN:ND2	2.28	0.67
1:CU:92:ILE:HG12	1:CV:92:ILE:HG12	1.76	0.67
1:AM:92:ILE:HG12	1:AN:92:ILE:HG12	1.76	0.67
1:AT:29:GLN:OE1	1:AT:36:ASN:ND2	2.28	0.67
1:BR:29:GLN:OE1	1:BR:36:ASN:ND2	2.28	0.67
1:BV:39:VAL:HG12	1:BV:41:GLU:H	1.58	0.67
1:BX:29:GLN:OE1	1:BX:36:ASN:ND2	2.28	0.67
1:BZ:92:ILE:HG12	1:CA:92:ILE:HG12	1.76	0.67
1:CC:42:ASP:HB2	1:CC:48:ARG:HG3	1.76	0.67
1:CK:39:VAL:HG12	1:CK:41:GLU:H	1.59	0.67
1:CV:2:ILE:HD11	1:CV:124:PHE:HB2	1.75	0.67
1:CY:29:GLN:OE1	1:CY:36:ASN:ND2	2.28	0.67
1:DD:92:ILE:HG12	1:DE:92:ILE:HG12	1.76	0.67
1:AA:92:ILE:HG12	1:AB:92:ILE:HG12	1.76	0.67
1:BF:29:GLN:OE1	1:BF:36:ASN:ND2	2.28	0.67
1:BH:42:ASP:HB2	1:BH:48:ARG:HG3	1.76	0.67
1:BL:29:GLN:OE1	1:BL:36:ASN:ND2	2.28	0.67
1:BN:92:ILE:HG12	1:BO:92:ILE:HG12	1.76	0.67
1:BU:2:ILE:HD11	1:BU:124:PHE:HB2	1.75	0.67
1:CS:29:GLN:OE1	1:CS:36:ASN:ND2	2.28	0.67
1:AX:92:ILE:HG12	1:CT:92:ILE:HG12	1.76	0.67
1:DK:2:ILE:HD11	1:DK:124:PHE:HB2	1.75	0.67
1:AG:42:ASP:HB2	1:AG:48:ARG:HG3	1.76	0.67
1:AQ:29:GLN:OE1	1:AQ:36:ASN:ND2	2.28	0.67
1:AR:39:VAL:HG12	1:AR:41:GLU:H	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AW:29:GLN:OE1	1:AW:36:ASN:ND2	2.28	0.67
1:BC:2:ILE:HD11	1:BC:124:PHE:HB2	1.75	0.67
1:BT:92:ILE:HG12	1:BU:92:ILE:HG12	1.76	0.67
1:BU:29:GLN:OE1	1:BU:36:ASN:ND2	2.28	0.67
1:CM:42:ASP:HB2	1:CM:48:ARG:HG2	1.76	0.67
1:CL:92:ILE:HG12	1:CM:92:ILE:HG12	1.76	0.67
1:CR:42:ASP:HB2	1:CR:48:ARG:HG3	1.76	0.67
1:CX:92:ILE:HG12	1:CY:92:ILE:HG12	1.76	0.67
1:DE:29:GLN:OE1	1:DE:36:ASN:ND2	2.28	0.67
1:AL:39:VAL:HG12	1:AL:41:GLU:H	1.58	0.67
1:AW:2:ILE:HD11	1:AW:124:PHE:HB2	1.75	0.67
1:AY:92:ILE:HG12	1:AZ:92:ILE:HG12	1.76	0.67
1:BW:42:ASP:HB2	1:BW:48:ARG:HG3	1.76	0.67
1:CD:29:GLN:OE1	1:CD:36:ASN:ND2	2.28	0.67
1:CA:87:PHE:HE2	1:CF:60:VAL:HG11	1.56	0.67
1:CJ:29:GLN:OE1	1:CJ:36:ASN:ND2	2.28	0.67
1:AR:114:GLN:NE2	1:CK:16:ILE:HD13	2.07	0.67
1:DD:42:ASP:HB2	1:DD:48:ARG:HG3	1.76	0.67
1:DE:2:ILE:HD11	1:DE:124:PHE:HB2	1.75	0.67
1:DH:42:ASP:HB2	1:DH:48:ARG:HG2	1.76	0.67
1:AN:2:ILE:HD11	1:AN:124:PHE:HB2	1.75	0.67
1:CS:2:ILE:HD11	1:CS:124:PHE:HB2	1.75	0.67
1:CX:42:ASP:HB2	1:CX:48:ARG:HG3	1.76	0.67
1:AH:2:ILE:HD11	1:AH:124:PHE:HB2	1.75	0.66
1:AP:42:ASP:HB2	1:AP:48:ARG:HG3	1.76	0.66
1:AZ:29:GLN:OE1	1:AZ:36:ASN:ND2	2.28	0.66
1:BI:2:ILE:HD11	1:BI:124:PHE:HB2	1.75	0.66
1:BR:2:ILE:HD11	1:BR:124:PHE:HB2	1.75	0.66
1:BX:45:TYR:HD1	1:BX:48:ARG:HH21	1.44	0.66
1:CG:2:ILE:HD11	1:CG:124:PHE:HB2	1.75	0.66
1:CI:42:ASP:HB2	1:CI:48:ARG:HG3	1.76	0.66
1:CL:42:ASP:HB2	1:CL:48:ARG:HG3	1.76	0.66
1:CM:2:ILE:HD11	1:CM:124:PHE:HB2	1.75	0.66
1:DA:92:ILE:HG12	1:DB:92:ILE:HG12	1.76	0.66
1:DB:29:GLN:OE1	1:DB:36:ASN:ND2	2.28	0.66
1:DG:92:ILE:HG12	1:DH:92:ILE:HG12	1.76	0.66
1:DH:29:GLN:OE1	1:DH:36:ASN:ND2	2.28	0.66
1:DK:29:GLN:OE1	1:DK:36:ASN:ND2	2.28	0.66
1:AA:42:ASP:HB2	1:AA:48:ARG:HG3	1.76	0.66
1:AN:42:ASP:HB2	1:AN:48:ARG:HG2	1.76	0.66
1:AZ:42:ASP:HB2	1:AZ:48:ARG:HG2	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BE:42:ASP:HB2	1:BE:48:ARG:HG3	1.76	0.66
1:BF:2:ILE:HD11	1:BF:124:PHE:HB2	1.75	0.66
1:BL:45:TYR:HD1	1:BL:48:ARG:HH21	1.44	0.66
1:CA:45:TYR:HD1	1:CA:48:ARG:HH21	1.43	0.66
1:DJ:92:ILE:HG12	1:DK:92:ILE:HG12	1.76	0.66
1:AH:29:GLN:OE1	1:AH:36:ASN:ND2	2.28	0.66
1:AJ:42:ASP:HB2	1:AJ:48:ARG:HG3	1.76	0.66
1:BC:29:GLN:OE1	1:BC:36:ASN:ND2	2.28	0.66
1:BH:92:ILE:HG12	1:BI:92:ILE:HG12	1.76	0.66
1:BQ:42:ASP:HB2	1:BQ:48:ARG:HG3	1.76	0.66
1:BW:92:ILE:HG12	1:BX:92:ILE:HG12	1.76	0.66
1:CA:42:ASP:HB2	1:CA:48:ARG:HG2	1.76	0.66
1:CC:92:ILE:HG12	1:CD:92:ILE:HG12	1.76	0.66
1:CF:42:ASP:HB2	1:CF:48:ARG:HG3	1.76	0.66
1:CV:42:ASP:HB2	1:CV:48:ARG:HG2	1.76	0.66
1:AC:39:VAL:HG12	1:AC:41:GLU:H	1.59	0.66
1:AV:42:ASP:HB2	1:AV:48:ARG:HG3	1.76	0.66
1:BZ:42:ASP:HB2	1:BZ:48:ARG:HG3	1.76	0.66
1:CD:2:ILE:HD11	1:CD:124:PHE:HB2	1.75	0.66
1:CD:45:TYR:HD1	1:CD:48:ARG:HH21	1.43	0.66
1:CP:45:TYR:HD1	1:CP:48:ARG:HH21	1.44	0.66
1:DB:45:TYR:HD1	1:DB:48:ARG:HH21	1.44	0.66
1:DE:42:ASP:HB2	1:DE:48:ARG:HG2	1.76	0.66
1:AT:45:TYR:HD1	1:AT:48:ARG:HH21	1.43	0.66
1:CA:2:ILE:HD11	1:CA:124:PHE:HB2	1.75	0.66
1:CS:42:ASP:HB2	1:CS:48:ARG:HG2	1.76	0.66
1:AS:92:ILE:HG12	1:AT:92:ILE:HG12	1.76	0.66
1:AZ:45:TYR:HD1	1:AZ:48:ARG:HH21	1.43	0.66
1:BA:39:VAL:HG12	1:BA:41:GLU:H	1.58	0.66
1:BE:92:ILE:HG12	1:BF:92:ILE:HG12	1.76	0.66
1:CY:42:ASP:HB2	1:CY:48:ARG:HG2	1.76	0.66
1:CG:42:ASP:HB2	1:CG:48:ARG:HG2	1.76	0.66
1:BM:16:ILE:HG21	1:DI:114:GLN:NE2	2.10	0.66
1:AY:42:ASP:HB2	1:AY:48:ARG:HG3	1.76	0.66
1:BC:45:TYR:HD1	1:BC:48:ARG:HH21	1.44	0.66
1:BB:92:ILE:HG12	1:BC:92:ILE:HG12	1.76	0.66
1:BN:42:ASP:HB2	1:BN:48:ARG:HG3	1.76	0.66
1:BT:42:ASP:HB2	1:BT:48:ARG:HG3	1.76	0.66
1:CM:29:GLN:OE1	1:CM:36:ASN:ND2	2.28	0.66
1:DK:45:TYR:HD1	1:DK:48:ARG:HH21	1.43	0.66
1:BI:42:ASP:HB2	1:BI:48:ARG:HG2	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:29:GLN:OE1	1:CA:36:ASN:ND2	2.28	0.66
1:AH:87:PHE:HE2	1:CC:60:VAL:HG11	1.58	0.66
1:CA:46:ARG:HG3	1:CF:65:TYR:CD2	2.31	0.66
1:DH:45:TYR:HD1	1:DH:48:ARG:HH21	1.44	0.66
1:AQ:45:TYR:HD1	1:AQ:48:ARG:HH21	1.43	0.66
1:CY:45:TYR:HD1	1:CY:48:ARG:HH21	1.44	0.66
1:CZ:39:VAL:HG12	1:CZ:41:GLU:H	1.59	0.66
1:BJ:110:LEU:HD23	1:DF:16:ILE:HD11	1.78	0.66
1:AI:108:LEU:HD22	1:BY:90:VAL:HG12	1.77	0.65
1:AB:33:ASN:OD1	1:AU:30:THR:OG1	2.13	0.65
1:AW:45:TYR:HD1	1:AW:48:ARG:HH21	1.44	0.65
1:BD:7:ILE:O	1:CZ:22:ILE:HG22	1.96	0.65
1:BQ:92:ILE:HG12	1:BR:92:ILE:HG12	1.76	0.65
1:CM:45:TYR:HD1	1:CM:48:ARG:HH21	1.44	0.65
1:CV:45:TYR:HD1	1:CV:48:ARG:HH21	1.43	0.65
1:DC:39:VAL:HG12	1:DC:41:GLU:H	1.59	0.65
1:AD:92:ILE:HG12	1:AE:92:ILE:HG12	1.76	0.65
1:CR:92:ILE:HG12	1:CS:92:ILE:HG12	1.76	0.65
1:DE:45:TYR:HD1	1:DE:48:ARG:HH21	1.43	0.65
1:AK:45:TYR:HD1	1:AK:48:ARG:HH21	1.44	0.65
1:BR:45:TYR:HD1	1:BR:48:ARG:HH21	1.43	0.65
1:CF:92:ILE:HG12	1:CG:92:ILE:HG12	1.76	0.65
1:CJ:45:TYR:HD1	1:CJ:48:ARG:HH21	1.44	0.65
1:BI:45:TYR:HD1	1:BI:48:ARG:HH21	1.43	0.65
1:BG:100:LEU:HD13	1:DC:88:ASN:ND2	2.12	0.65
1:BF:45:TYR:HD1	1:BF:48:ARG:HH21	1.44	0.64
1:CG:45:TYR:HD1	1:CG:48:ARG:HH21	1.44	0.64
1:BM:116:LEU:HD22	1:DI:109:ARG:HG2	1.79	0.64
1:AE:45:TYR:HD1	1:AE:48:ARG:HH21	1.44	0.64
1:AN:45:TYR:HD1	1:AN:48:ARG:HH21	1.43	0.64
1:CS:45:TYR:HD1	1:CS:48:ARG:HH21	1.44	0.64
1:BG:114:GLN:HE21	1:DC:16:ILE:HD13	1.63	0.64
1:BO:87:PHE:HE2	1:DJ:60:VAL:HG11	1.62	0.64
1:AL:92:ILE:HG12	1:CB:92:ILE:HG12	1.79	0.64
1:AC:46:ARG:HA	1:DH:65:TYR:HE2	1.61	0.64
1:AH:45:TYR:HD1	1:AH:48:ARG:HH21	1.43	0.64
1:AI:12:THR:OG1	1:BY:17:THR:O	2.11	0.64
1:AH:26:LEU:O	1:CD:129:ALA:HB2	1.97	0.64
1:BO:45:TYR:HD1	1:BO:48:ARG:HH21	1.44	0.64
1:BU:45:TYR:HD1	1:BU:48:ARG:HH21	1.44	0.64
1:AO:16:ILE:HG21	1:CE:114:GLN:NE2	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:92:ILE:HG12	1:CW:92:ILE:HG12	1.80	0.63
1:AE:46:ARG:HG3	1:BE:65:TYR:CE2	2.33	0.63
1:AB:45:TYR:HD1	1:AB:48:ARG:HH21	1.44	0.63
1:BE:127:LEU:HD13	1:BS:40:SER:HB2	1.79	0.63
1:BM:7:ILE:O	1:DI:22:ILE:HG22	1.98	0.63
1:CR:57:VAL:HG21	1:DB:29:GLN:HG3	1.80	0.63
1:AR:16:ILE:HD11	1:CK:110:LEU:HD23	1.81	0.62
1:AF:6:SER:HA	1:BV:22:ILE:O	1.98	0.62
1:BD:92:ILE:HG12	1:CZ:92:ILE:HG12	1.80	0.62
1:CR:60:VAL:HG11	1:DB:87:PHE:CE2	2.33	0.62
1:AA:60:VAL:HG11	1:DH:87:PHE:CE2	2.33	0.62
1:AH:87:PHE:CE2	1:CC:60:VAL:HG11	2.33	0.62
1:AE:127:LEU:HD21	1:DE:48:ARG:HH12	1.63	0.62
1:AB:30:THR:OG1	1:AS:33:ASN:OD1	2.16	0.62
1:CB:47:THR:HA	1:CB:77:PRO:HG2	1.82	0.62
1:DC:47:THR:HA	1:DC:77:PRO:HG2	1.82	0.62
1:AL:22:ILE:O	1:CB:6:SER:HA	1.99	0.62
1:BC:65:TYR:HE2	1:BP:46:ARG:HA	1.63	0.62
1:BS:47:THR:HA	1:BS:77:PRO:HG2	1.82	0.62
1:CE:47:THR:HA	1:CE:77:PRO:HG2	1.82	0.62
1:CQ:47:THR:HA	1:CQ:77:PRO:HG2	1.82	0.62
1:AW:65:TYR:CD2	1:BV:46:ARG:HG2	2.35	0.62
1:BJ:47:THR:HA	1:BJ:77:PRO:HG2	1.82	0.62
1:AF:8:LYS:HB2	1:AF:114:GLN:HE22	1.65	0.62
1:BJ:46:ARG:HA	1:BL:65:TYR:HE2	1.64	0.62
1:CK:47:THR:HA	1:CK:77:PRO:HG2	1.82	0.62
1:CW:47:THR:HA	1:CW:77:PRO:HG2	1.82	0.62
1:CZ:47:THR:HA	1:CZ:77:PRO:HG2	1.82	0.62
1:AI:8:LYS:HB2	1:AI:114:GLN:HE22	1.65	0.62
1:AL:8:LYS:HB2	1:AL:114:GLN:HE22	1.65	0.62
1:BJ:8:LYS:HB2	1:BJ:114:GLN:HE22	1.65	0.62
1:BV:8:LYS:HB2	1:BV:114:GLN:HE22	1.65	0.62
1:BJ:92:ILE:HG12	1:DF:92:ILE:HG12	1.82	0.62
1:DL:8:LYS:HB2	1:DL:114:GLN:HE22	1.65	0.62
1:BD:8:LYS:HB2	1:BD:114:GLN:HE22	1.65	0.61
1:BG:47:THR:HA	1:BG:77:PRO:HG2	1.82	0.61
1:AO:8:LYS:HB2	1:AO:114:GLN:HE22	1.65	0.61
1:BM:47:THR:HA	1:BM:77:PRO:HG2	1.82	0.61
1:BV:47:THR:HA	1:BV:77:PRO:HG2	1.82	0.61
1:CT:42:ASP:HB2	1:CT:48:ARG:HG2	1.83	0.61
1:DI:8:LYS:HB2	1:DI:114:GLN:HE22	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:47:THR:HA	1:AI:77:PRO:HG2	1.82	0.61
1:AO:46:ARG:HG2	1:CP:65:TYR:CD2	2.34	0.61
1:AU:8:LYS:HB2	1:AU:114:GLN:HE22	1.65	0.61
1:BA:8:LYS:HB2	1:BA:114:GLN:HE22	1.65	0.61
1:BD:22:ILE:HG22	1:CZ:7:ILE:O	2.01	0.61
1:BP:47:THR:HA	1:BP:77:PRO:HG2	1.82	0.61
1:BY:42:ASP:HB2	1:BY:48:ARG:HG2	1.83	0.61
1:CW:8:LYS:HB2	1:CW:114:GLN:HE22	1.65	0.61
1:AO:42:ASP:HB2	1:AO:48:ARG:HG2	1.83	0.61
1:BG:8:LYS:HB2	1:BG:114:GLN:HE22	1.65	0.61
1:BM:8:LYS:HB2	1:BM:114:GLN:HE22	1.65	0.61
1:BS:42:ASP:HB2	1:BS:48:ARG:HG2	1.83	0.61
1:CK:8:LYS:HB2	1:CK:114:GLN:HE22	1.65	0.61
1:CZ:8:LYS:HB2	1:CZ:114:GLN:HE22	1.65	0.61
1:BM:111:ILE:HD13	1:DI:74:PHE:CZ	2.34	0.61
1:CN:42:ASP:HB2	1:CN:48:ARG:HG2	1.83	0.61
1:AC:8:LYS:HB2	1:AC:114:GLN:HE22	1.65	0.61
1:AO:47:THR:HA	1:AO:77:PRO:HG2	1.82	0.61
1:AX:42:ASP:HB2	1:AX:48:ARG:HG2	1.83	0.61
1:DI:47:THR:HA	1:DI:77:PRO:HG2	1.82	0.61
1:AC:47:THR:HA	1:AC:77:PRO:HG2	1.82	0.61
1:AF:19:GLY:O	1:BV:8:LYS:HD2	2.00	0.61
1:AF:42:ASP:HB2	1:AF:48:ARG:HG2	1.83	0.61
1:BY:8:LYS:HB2	1:BY:114:GLN:HE22	1.65	0.61
1:CN:47:THR:HA	1:CN:77:PRO:HG2	1.82	0.61
1:CQ:8:LYS:HB2	1:CQ:114:GLN:HE22	1.65	0.61
1:AU:47:THR:HA	1:AU:77:PRO:HG2	1.82	0.61
1:AX:47:THR:HA	1:AX:77:PRO:HG2	1.82	0.61
1:BG:42:ASP:HB2	1:BG:48:ARG:HG2	1.83	0.61
1:CK:42:ASP:HB2	1:CK:48:ARG:HG2	1.83	0.61
1:BM:114:GLN:HE21	1:DI:16:ILE:HD13	1.65	0.61
1:AI:42:ASP:HB2	1:AI:48:ARG:HG2	1.83	0.61
1:AR:8:LYS:HB2	1:AR:114:GLN:HE22	1.65	0.61
1:AR:42:ASP:HB2	1:AR:48:ARG:HG2	1.83	0.61
1:AU:42:ASP:HB2	1:AU:48:ARG:HG2	1.83	0.61
1:BM:42:ASP:HB2	1:BM:48:ARG:HG2	1.83	0.61
1:BP:8:LYS:HB2	1:BP:114:GLN:HE22	1.65	0.61
1:BP:42:ASP:HB2	1:BP:48:ARG:HG2	1.83	0.61
1:CE:8:LYS:HB2	1:CE:114:GLN:HE22	1.65	0.61
1:DF:47:THR:HA	1:DF:77:PRO:HG2	1.82	0.61
1:AJ:65:TYR:CE2	1:CV:46:ARG:HG3	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:47:THR:HA	1:AL:77:PRO:HG2	1.82	0.60
1:BF:65:TYR:CE2	1:BS:46:ARG:HA	2.36	0.60
1:BS:8:LYS:HB2	1:BS:114:GLN:HE22	1.65	0.60
1:BY:47:THR:HA	1:BY:77:PRO:HG2	1.82	0.60
1:CH:8:LYS:HB2	1:CH:114:GLN:HE22	1.65	0.60
1:CZ:42:ASP:HB2	1:CZ:48:ARG:HG2	1.83	0.60
1:AF:47:THR:HA	1:AF:77:PRO:HG2	1.82	0.60
1:AU:110:LEU:HD23	1:CN:16:ILE:HD11	1.83	0.60
1:CT:47:THR:HA	1:CT:77:PRO:HG2	1.82	0.60
1:DC:42:ASP:HB2	1:DC:48:ARG:HG2	1.83	0.60
1:BD:42:ASP:HB2	1:BD:48:ARG:HG2	1.83	0.60
1:BD:47:THR:HA	1:BD:77:PRO:HG2	1.82	0.60
1:CQ:42:ASP:HB2	1:CQ:48:ARG:HG2	1.83	0.60
1:AC:110:LEU:HD23	1:BP:16:ILE:HD11	1.83	0.60
1:AX:8:LYS:HB2	1:AX:114:GLN:HE22	1.65	0.60
1:BV:42:ASP:HB2	1:BV:48:ARG:HG2	1.83	0.60
1:AN:29:GLN:HG3	1:BZ:57:VAL:HG21	1.84	0.60
1:AB:87:PHE:CE2	1:AS:60:VAL:HG11	2.37	0.60
1:CN:8:LYS:HB2	1:CN:114:GLN:HE22	1.65	0.60
1:AC:42:ASP:HB2	1:AC:48:ARG:HG2	1.83	0.60
1:CT:8:LYS:HB2	1:CT:114:GLN:HE22	1.65	0.60
1:CW:46:ARG:HG2	1:CY:65:TYR:CE2	2.36	0.60
1:AC:16:ILE:HD11	1:BP:110:LEU:HD23	1.84	0.60
1:CB:42:ASP:HB2	1:CB:48:ARG:HG2	1.83	0.60
1:CH:47:THR:HA	1:CH:77:PRO:HG2	1.82	0.60
1:CB:8:LYS:HB2	1:CB:114:GLN:HE22	1.65	0.60
1:AR:47:THR:HA	1:AR:77:PRO:HG2	1.82	0.60
1:BJ:42:ASP:HB2	1:BJ:48:ARG:HG2	1.83	0.60
1:CH:42:ASP:HB2	1:CH:48:ARG:HG2	1.83	0.60
1:BD:110:LEU:HD23	1:CZ:16:ILE:HD11	1.83	0.60
1:AF:22:ILE:O	1:BV:6:SER:HA	2.02	0.60
1:DL:47:THR:HA	1:DL:77:PRO:HG2	1.82	0.60
1:CE:42:ASP:HB2	1:CE:48:ARG:HG2	1.83	0.59
1:CW:42:ASP:HB2	1:CW:48:ARG:HG2	1.83	0.59
1:AF:8:LYS:HD2	1:BV:19:GLY:O	2.02	0.59
1:BA:42:ASP:HB2	1:BA:48:ARG:HG2	1.83	0.59
1:AF:114:GLN:NE2	1:BV:16:ILE:HD13	2.15	0.59
1:AO:109:ARG:HG2	1:CE:116:LEU:HD22	1.84	0.59
1:DC:8:LYS:HB2	1:DC:114:GLN:HE22	1.65	0.59
1:DF:8:LYS:HB2	1:DF:114:GLN:HE22	1.65	0.59
1:DL:42:ASP:HB2	1:DL:48:ARG:HG2	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:111:ILE:HD13	1:BP:74:PHE:CZ	2.37	0.59
1:BA:47:THR:HA	1:BA:77:PRO:HG2	1.82	0.59
1:AM:130:LEU:O	1:CB:26:LEU:HB3	2.02	0.59
1:CW:10:GLY:N	1:CW:107:ASP:OD1	2.34	0.59
1:DF:42:ASP:HB2	1:DF:48:ARG:HG2	1.83	0.59
1:AB:46:ARG:HG3	1:AS:65:TYR:CE2	2.38	0.59
1:DI:42:ASP:HB2	1:DI:48:ARG:HG2	1.83	0.59
1:DF:10:GLY:N	1:DF:107:ASP:OD1	2.34	0.59
1:AH:46:ARG:NH2	1:CC:99:ALA:HA	2.18	0.59
1:BO:87:PHE:CE2	1:DJ:60:VAL:HG11	2.38	0.59
1:AI:116:LEU:HD22	1:BY:109:ARG:HG2	1.85	0.59
1:CD:65:TYR:HE2	1:CK:46:ARG:CA	2.14	0.59
1:AG:130:LEU:O	1:CE:26:LEU:HB3	2.03	0.59
1:AL:42:ASP:HB2	1:AL:48:ARG:HG2	1.83	0.59
1:BU:29:GLN:HG3	1:DG:57:VAL:HG21	1.85	0.59
1:AE:33:ASN:OD1	1:BG:30:THR:OG1	2.20	0.59
1:BI:127:LEU:HD21	1:BL:48:ARG:HH12	1.68	0.59
1:BM:115:LEU:HD13	1:DI:72:VAL:HG11	1.84	0.59
1:AH:33:ASN:OD1	1:CE:30:THR:OG1	2.20	0.59
1:AO:108:LEU:HD22	1:CE:90:VAL:HG12	1.85	0.58
1:BG:110:LEU:HD23	1:DC:16:ILE:HD11	1.85	0.58
1:BM:116:LEU:O	1:DI:109:ARG:NH2	2.35	0.58
1:AF:16:ILE:HD13	1:BV:114:GLN:NE2	2.13	0.58
1:BG:16:ILE:HD11	1:DC:110:LEU:HD23	1.85	0.58
1:CW:46:ARG:HA	1:CY:65:TYR:HE2	1.67	0.58
1:AO:109:ARG:NH2	1:CE:116:LEU:O	2.37	0.58
1:CZ:10:GLY:N	1:CZ:107:ASP:OD1	2.34	0.58
1:AK:65:TYR:CD2	1:BY:46:ARG:HG2	2.39	0.58
1:BK:39:VAL:O	1:BK:48:ARG:HD2	2.04	0.58
1:AG:39:VAL:O	1:AG:48:ARG:HD2	2.04	0.58
1:BZ:39:VAL:O	1:BZ:48:ARG:HD2	2.04	0.58
1:DL:10:GLY:N	1:DL:107:ASP:OD1	2.34	0.58
1:AM:39:VAL:O	1:AM:48:ARG:HD2	2.04	0.58
1:AO:46:ARG:HG2	1:CP:65:TYR:CE2	2.39	0.58
1:AT:46:ARG:NH2	1:AV:99:ALA:HA	2.19	0.58
1:AI:116:LEU:O	1:BY:109:ARG:NH2	2.36	0.58
1:CO:39:VAL:O	1:CO:48:ARG:HD2	2.04	0.58
1:CR:39:VAL:O	1:CR:48:ARG:HD2	2.04	0.58
1:AA:39:VAL:O	1:AA:48:ARG:HD2	2.04	0.58
1:AY:39:VAL:O	1:AY:48:ARG:HD2	2.04	0.58
1:BE:39:VAL:O	1:BE:48:ARG:HD2	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:39:VAL:O	1:AJ:48:ARG:HD2	2.04	0.57
1:AO:113:ALA:HB1	1:CE:113:ALA:HB1	1.85	0.57
1:BT:39:VAL:O	1:BT:48:ARG:HD2	2.04	0.57
1:AS:39:VAL:O	1:AS:48:ARG:HD2	2.04	0.57
1:CK:10:GLY:N	1:CK:107:ASP:OD1	2.34	0.57
1:CX:39:VAL:O	1:CX:48:ARG:HD2	2.04	0.57
1:DA:39:VAL:O	1:DA:48:ARG:HD2	2.04	0.57
1:AC:10:GLY:N	1:AC:107:ASP:OD1	2.34	0.57
1:DJ:39:VAL:O	1:DJ:48:ARG:HD2	2.04	0.57
1:BH:39:VAL:O	1:BH:48:ARG:HD2	2.04	0.57
1:BQ:39:VAL:O	1:BQ:48:ARG:HD2	2.04	0.57
1:CI:39:VAL:O	1:CI:48:ARG:HD2	2.04	0.57
1:CT:10:GLY:N	1:CT:107:ASP:OD1	2.34	0.57
1:DC:10:GLY:N	1:DC:107:ASP:OD1	2.34	0.57
1:BJ:7:ILE:O	1:DF:22:ILE:HG22	2.04	0.57
1:AB:47:THR:HA	1:AB:77:PRO:HG2	1.87	0.57
1:AJ:60:VAL:HG11	1:CV:87:PHE:CE2	2.39	0.57
1:AQ:47:THR:HA	1:AQ:77:PRO:HG2	1.87	0.57
1:AX:10:GLY:N	1:AX:107:ASP:OD1	2.34	0.57
1:DG:39:VAL:O	1:DG:48:ARG:HD2	2.04	0.57
1:AP:39:VAL:O	1:AP:48:ARG:HD2	2.04	0.57
1:BA:10:GLY:N	1:BA:107:ASP:OD1	2.34	0.57
1:BB:39:VAL:O	1:BB:48:ARG:HD2	2.04	0.57
1:BU:47:THR:HA	1:BU:77:PRO:HG2	1.87	0.57
1:CA:60:VAL:HG13	1:CA:65:TYR:HE1	1.70	0.57
1:CC:39:VAL:O	1:CC:48:ARG:HD2	2.04	0.57
1:DD:39:VAL:O	1:DD:48:ARG:HD2	2.04	0.57
1:DE:47:THR:HA	1:DE:77:PRO:HG2	1.87	0.57
1:AZ:47:THR:HA	1:AZ:77:PRO:HG2	1.87	0.57
1:AZ:60:VAL:HG13	1:AZ:65:TYR:HE1	1.70	0.57
1:BG:10:GLY:N	1:BG:107:ASP:OD1	2.34	0.57
1:AO:116:LEU:HD22	1:CE:109:ARG:HG2	1.87	0.57
1:AQ:60:VAL:HG13	1:AQ:65:TYR:HE1	1.70	0.57
1:AU:10:GLY:N	1:AU:107:ASP:OD1	2.34	0.57
1:BC:60:VAL:HG13	1:BC:65:TYR:HE1	1.70	0.57
1:BL:47:THR:HA	1:BL:77:PRO:HG2	1.87	0.57
1:BW:39:VAL:O	1:BW:48:ARG:HD2	2.04	0.57
1:AO:116:LEU:O	1:CE:109:ARG:NE	2.36	0.57
1:CF:39:VAL:O	1:CF:48:ARG:HD2	2.04	0.57
1:CY:47:THR:HA	1:CY:77:PRO:HG2	1.87	0.57
1:DB:47:THR:HA	1:DB:77:PRO:HG2	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BM:90:VAL:HG12	1:DI:108:LEU:HD22	1.86	0.57
1:AT:47:THR:HA	1:AT:77:PRO:HG2	1.87	0.57
1:BP:10:GLY:N	1:BP:107:ASP:OD1	2.34	0.57
1:BU:60:VAL:HG13	1:BU:65:TYR:HE1	1.70	0.57
1:CG:60:VAL:HG13	1:CG:65:TYR:HE1	1.70	0.57
1:AR:6:SER:HA	1:CK:22:ILE:O	2.04	0.57
1:DE:60:VAL:HG13	1:DE:65:TYR:HE1	1.70	0.57
1:AK:60:VAL:HG13	1:AK:65:TYR:HE1	1.70	0.56
1:BM:10:GLY:N	1:BM:107:ASP:OD1	2.34	0.56
1:BR:60:VAL:HG13	1:BR:65:TYR:HE1	1.70	0.56
1:BR:47:THR:HA	1:BR:77:PRO:HG2	1.87	0.56
1:AI:129:ALA:HB2	1:BW:26:LEU:O	2.05	0.56
1:BX:47:THR:HA	1:BX:77:PRO:HG2	1.87	0.56
1:CD:47:THR:HA	1:CD:77:PRO:HG2	1.87	0.56
1:CP:47:THR:HA	1:CP:77:PRO:HG2	1.87	0.56
1:AT:60:VAL:HG13	1:AT:65:TYR:HE1	1.70	0.56
1:BN:39:VAL:O	1:BN:48:ARG:HD2	2.04	0.56
1:BX:60:VAL:HG13	1:BX:65:TYR:HE1	1.70	0.56
1:AI:109:ARG:NH2	1:BY:116:LEU:O	2.37	0.56
1:CD:60:VAL:HG13	1:CD:65:TYR:HE1	1.70	0.56
1:CN:10:GLY:N	1:CN:107:ASP:OD1	2.34	0.56
1:DK:60:VAL:HG13	1:DK:65:TYR:HE1	1.70	0.56
1:AN:47:THR:HA	1:AN:77:PRO:HG2	1.87	0.56
1:CU:39:VAL:O	1:CU:48:ARG:HD2	2.04	0.56
1:AD:39:VAL:O	1:AD:48:ARG:HD2	2.04	0.56
1:BF:47:THR:HA	1:BF:77:PRO:HG2	1.87	0.56
1:CP:60:VAL:HG13	1:CP:65:TYR:HE1	1.70	0.56
1:CV:60:VAL:HG13	1:CV:65:TYR:HE1	1.70	0.56
1:DH:47:THR:HA	1:DH:77:PRO:HG2	1.87	0.56
1:AB:60:VAL:HG13	1:AB:65:TYR:HE1	1.70	0.56
1:AU:7:ILE:O	1:CN:22:ILE:HG22	2.05	0.56
1:BU:87:PHE:HE2	1:DG:60:VAL:HG11	1.69	0.56
1:DB:60:VAL:HG13	1:DB:65:TYR:HE1	1.70	0.56
1:AI:10:GLY:N	1:AI:107:ASP:OD1	2.34	0.56
1:AK:87:PHE:HE2	1:BW:60:VAL:HG11	1.71	0.56
1:AO:109:ARG:NE	1:CE:116:LEU:O	2.39	0.56
1:CH:10:GLY:N	1:CH:107:ASP:OD1	2.34	0.56
1:CJ:47:THR:HA	1:CJ:77:PRO:HG2	1.87	0.56
1:BO:47:THR:HA	1:BO:77:PRO:HG2	1.87	0.56
1:AI:22:ILE:HG22	1:BY:7:ILE:O	2.05	0.56
1:CL:119:ALA:HA	1:CL:122:ASP:HB2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CL:39:VAL:O	1:CL:48:ARG:HD2	2.04	0.56
1:BD:22:ILE:O	1:CZ:6:SER:HA	2.05	0.56
1:AE:60:VAL:HG13	1:AE:65:TYR:HE1	1.70	0.56
1:AR:92:ILE:HG12	1:CK:92:ILE:HG12	1.86	0.56
1:AV:39:VAL:O	1:AV:48:ARG:HD2	2.04	0.56
1:BC:47:THR:HA	1:BC:77:PRO:HG2	1.87	0.56
1:CA:65:TYR:HE2	1:CH:46:ARG:HA	1.71	0.56
1:CI:119:ALA:HA	1:CI:122:ASP:HB2	1.88	0.56
1:CJ:60:VAL:HG13	1:CJ:65:TYR:HE1	1.70	0.56
1:AU:6:SER:HA	1:CN:22:ILE:O	2.06	0.56
1:CX:119:ALA:HA	1:CX:122:ASP:HB2	1.88	0.56
1:CY:60:VAL:HG13	1:CY:65:TYR:HE1	1.70	0.56
1:DH:60:VAL:HG13	1:DH:65:TYR:HE1	1.70	0.56
1:AA:119:ALA:HA	1:AA:122:ASP:HB2	1.88	0.56
1:AM:119:ALA:HA	1:AM:122:ASP:HB2	1.88	0.56
1:AW:60:VAL:HG13	1:AW:65:TYR:HE1	1.70	0.56
1:BH:119:ALA:HA	1:BH:122:ASP:HB2	1.88	0.56
1:BI:60:VAL:HG13	1:BI:65:TYR:HE1	1.70	0.56
1:BU:22:ILE:HA	1:BU:41:GLU:OE1	2.06	0.56
1:BZ:119:ALA:HA	1:BZ:122:ASP:HB2	1.88	0.56
1:CJ:34:GLY:HA3	1:CJ:53:PHE:O	2.06	0.56
1:CW:46:ARG:HG2	1:CY:65:TYR:HD2	1.67	0.56
1:AW:22:ILE:HA	1:AW:41:GLU:OE1	2.06	0.56
1:BB:119:ALA:HA	1:BB:122:ASP:HB2	1.88	0.56
1:BF:60:VAL:HG13	1:BF:65:TYR:HE1	1.70	0.56
1:BR:22:ILE:HA	1:BR:41:GLU:OE1	2.06	0.56
1:CO:119:ALA:HA	1:CO:122:ASP:HB2	1.88	0.56
1:CP:22:ILE:HA	1:CP:41:GLU:OE1	2.06	0.56
1:CU:119:ALA:HA	1:CU:122:ASP:HB2	1.88	0.56
1:CV:22:ILE:HA	1:CV:41:GLU:OE1	2.06	0.56
1:DB:22:ILE:HA	1:DB:41:GLU:OE1	2.06	0.56
1:DG:119:ALA:HA	1:DG:122:ASP:HB2	1.88	0.56
1:AK:47:THR:HA	1:AK:77:PRO:HG2	1.87	0.56
1:AW:34:GLY:HA3	1:AW:53:PHE:O	2.06	0.56
1:BI:22:ILE:HA	1:BI:41:GLU:OE1	2.06	0.56
1:BL:22:ILE:HA	1:BL:41:GLU:OE1	2.06	0.56
1:BM:108:LEU:HD22	1:DI:90:VAL:CG1	2.33	0.56
1:BY:10:GLY:N	1:BY:107:ASP:OD1	2.34	0.56
1:CR:119:ALA:HA	1:CR:122:ASP:HB2	1.88	0.56
1:CV:47:THR:HA	1:CV:77:PRO:HG2	1.87	0.56
1:AD:119:ALA:HA	1:AD:122:ASP:HB2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:34:GLY:HA3	1:AK:53:PHE:O	2.06	0.55
1:AN:22:ILE:HA	1:AN:41:GLU:OE1	2.06	0.55
1:AW:47:THR:HA	1:AW:77:PRO:HG2	1.87	0.55
1:BC:22:ILE:HA	1:BC:41:GLU:OE1	2.06	0.55
1:CA:47:THR:HA	1:CA:77:PRO:HG2	1.87	0.55
1:CD:22:ILE:HA	1:CD:41:GLU:OE1	2.06	0.55
1:CD:98:PRO:HB2	1:CK:46:ARG:HG3	1.87	0.55
1:AE:47:THR:HA	1:AE:77:PRO:HG2	1.87	0.55
1:AH:60:VAL:HG13	1:AH:65:TYR:HE1	1.70	0.55
1:AN:34:GLY:HA3	1:AN:53:PHE:O	2.06	0.55
1:AS:119:ALA:HA	1:AS:122:ASP:HB2	1.88	0.55
1:BF:65:TYR:HE2	1:BS:46:ARG:CA	2.19	0.55
1:BK:119:ALA:HA	1:BK:122:ASP:HB2	1.88	0.55
1:BO:22:ILE:HA	1:BO:41:GLU:OE1	2.06	0.55
1:CF:119:ALA:HA	1:CF:122:ASP:HB2	1.88	0.55
1:CG:22:ILE:HA	1:CG:41:GLU:OE1	2.06	0.55
1:CP:34:GLY:HA3	1:CP:53:PHE:O	2.06	0.55
1:CS:22:ILE:HA	1:CS:41:GLU:OE1	2.06	0.55
1:CV:34:GLY:HA3	1:CV:53:PHE:O	2.06	0.55
1:DH:34:GLY:HA3	1:DH:53:PHE:O	2.06	0.55
1:AF:10:GLY:N	1:AF:107:ASP:OD1	2.34	0.55
1:AP:119:ALA:HA	1:AP:122:ASP:HB2	1.88	0.55
1:BC:34:GLY:HA3	1:BC:53:PHE:O	2.06	0.55
1:BO:60:VAL:HG13	1:BO:65:TYR:HE1	1.70	0.55
1:AI:109:ARG:HG2	1:BY:116:LEU:HD22	1.88	0.55
1:CA:22:ILE:HA	1:CA:41:GLU:OE1	2.06	0.55
1:CC:119:ALA:HA	1:CC:122:ASP:HB2	1.88	0.55
1:CG:34:GLY:HA3	1:CG:53:PHE:O	2.06	0.55
1:CM:47:THR:HA	1:CM:77:PRO:HG2	1.87	0.55
1:CM:60:VAL:HG13	1:CM:65:TYR:HE1	1.70	0.55
1:DJ:119:ALA:HA	1:DJ:122:ASP:HB2	1.88	0.55
1:AR:10:GLY:N	1:AR:107:ASP:OD1	2.34	0.55
1:BI:47:THR:HA	1:BI:77:PRO:HG2	1.87	0.55
1:BN:119:ALA:HA	1:BN:122:ASP:HB2	1.88	0.55
1:BX:22:ILE:HA	1:BX:41:GLU:OE1	2.06	0.55
1:CS:34:GLY:HA3	1:CS:53:PHE:O	2.06	0.55
1:CS:47:THR:HA	1:CS:77:PRO:HG2	1.87	0.55
1:CY:22:ILE:HA	1:CY:41:GLU:OE1	2.06	0.55
1:DE:34:GLY:HA3	1:DE:53:PHE:O	2.06	0.55
1:DH:22:ILE:HA	1:DH:41:GLU:OE1	2.06	0.55
1:DK:34:GLY:HA3	1:DK:53:PHE:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:22:ILE:HA	1:AB:41:GLU:OE1	2.06	0.55
1:AE:34:GLY:HA3	1:AE:53:PHE:O	2.06	0.55
1:AH:34:GLY:HA3	1:AH:53:PHE:O	2.06	0.55
1:AZ:34:GLY:HA3	1:AZ:53:PHE:O	2.06	0.55
1:BQ:119:ALA:HA	1:BQ:122:ASP:HB2	1.88	0.55
1:BT:119:ALA:HA	1:BT:122:ASP:HB2	1.88	0.55
1:CM:22:ILE:HA	1:CM:41:GLU:OE1	2.06	0.55
1:CS:60:VAL:HG13	1:CS:65:TYR:HE1	1.70	0.55
1:DK:22:ILE:HA	1:DK:41:GLU:OE1	2.06	0.55
1:DK:47:THR:HA	1:DK:77:PRO:HG2	1.87	0.55
1:AH:22:ILE:HA	1:AH:41:GLU:OE1	2.06	0.55
1:AT:34:GLY:HA3	1:AT:53:PHE:O	2.06	0.55
1:BE:119:ALA:HA	1:BE:122:ASP:HB2	1.88	0.55
1:CA:34:GLY:HA3	1:CA:53:PHE:O	2.06	0.55
1:AV:119:ALA:HA	1:AV:122:ASP:HB2	1.88	0.55
1:BO:34:GLY:HA3	1:BO:53:PHE:O	2.06	0.55
1:BR:34:GLY:HA3	1:BR:53:PHE:O	2.06	0.55
1:CG:47:THR:HA	1:CG:77:PRO:HG2	1.87	0.55
1:DB:34:GLY:HA3	1:DB:53:PHE:O	2.06	0.55
1:AH:47:THR:HA	1:AH:77:PRO:HG2	1.87	0.55
1:AT:22:ILE:HA	1:AT:41:GLU:OE1	2.06	0.55
1:BX:34:GLY:HA3	1:BX:53:PHE:O	2.06	0.55
1:CE:10:GLY:N	1:CE:107:ASP:OD1	2.34	0.55
1:AF:48:ARG:HH12	1:DD:127:LEU:HB3	1.72	0.55
1:AZ:22:ILE:HA	1:AZ:41:GLU:OE1	2.06	0.55
1:BF:22:ILE:HA	1:BF:41:GLU:OE1	2.06	0.55
1:BL:60:VAL:HG13	1:BL:65:TYR:HE1	1.70	0.55
1:CD:34:GLY:HA3	1:CD:53:PHE:O	2.06	0.55
1:AK:22:ILE:HA	1:AK:41:GLU:OE1	2.06	0.55
1:BI:34:GLY:HA3	1:BI:53:PHE:O	2.06	0.55
1:BS:10:GLY:N	1:BS:107:ASP:OD1	2.34	0.55
1:AI:12:THR:H	1:BY:18:GLY:HA2	1.71	0.55
1:AI:90:VAL:HG12	1:BY:108:LEU:HD22	1.87	0.54
1:BF:34:GLY:HA3	1:BF:53:PHE:O	2.06	0.54
1:BU:34:GLY:HA3	1:BU:53:PHE:O	2.06	0.54
1:CQ:10:GLY:N	1:CQ:107:ASP:OD1	2.34	0.54
1:DD:119:ALA:HA	1:DD:122:ASP:HB2	1.88	0.54
1:AL:10:GLY:N	1:AL:107:ASP:OD1	2.34	0.54
1:AN:60:VAL:HG13	1:AN:65:TYR:HE1	1.70	0.54
1:BU:87:PHE:CE2	1:DG:60:VAL:HG11	2.43	0.54
1:DA:119:ALA:HA	1:DA:122:ASP:HB2	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AS:22:ILE:HD11	1:AS:39:VAL:HG11	1.90	0.54
1:AY:119:ALA:HA	1:AY:122:ASP:HB2	1.88	0.54
1:BL:34:GLY:HA3	1:BL:53:PHE:O	2.06	0.54
1:BJ:46:ARG:HG3	1:BL:98:PRO:HB2	1.88	0.54
1:CD:29:GLN:HG3	1:CI:57:VAL:HG21	1.90	0.54
1:CU:22:ILE:HD11	1:CU:39:VAL:HG11	1.90	0.54
1:CY:34:GLY:HA3	1:CY:53:PHE:O	2.06	0.54
1:DI:10:GLY:N	1:DI:107:ASP:OD1	2.34	0.54
1:DJ:22:ILE:HD11	1:DJ:39:VAL:HG11	1.90	0.54
1:AE:22:ILE:HA	1:AE:41:GLU:OE1	2.06	0.54
1:AQ:34:GLY:HA3	1:AQ:53:PHE:O	2.06	0.54
1:AR:109:ARG:NH1	1:CK:122:ASP:OD1	2.35	0.54
1:BB:22:ILE:HD11	1:BB:39:VAL:HG11	1.90	0.54
1:BH:22:ILE:HD11	1:BH:39:VAL:HG11	1.90	0.54
1:BT:22:ILE:HD11	1:BT:39:VAL:HG11	1.90	0.54
1:BW:119:ALA:HA	1:BW:122:ASP:HB2	1.88	0.54
1:DE:22:ILE:HA	1:DE:41:GLU:OE1	2.06	0.54
1:AB:34:GLY:HA3	1:AB:53:PHE:O	2.06	0.54
1:AE:46:ARG:HG3	1:BE:65:TYR:CD2	2.42	0.54
1:AG:119:ALA:HA	1:AG:122:ASP:HB2	1.88	0.54
1:AJ:119:ALA:HA	1:AJ:122:ASP:HB2	1.88	0.54
1:AM:22:ILE:HD11	1:AM:39:VAL:HG11	1.90	0.54
1:AQ:22:ILE:HA	1:AQ:41:GLU:OE1	2.06	0.54
1:BD:16:ILE:HD11	1:CZ:110:LEU:HD23	1.90	0.54
1:BJ:46:ARG:HA	1:BL:65:TYR:CE2	2.41	0.54
1:AI:116:LEU:O	1:BY:109:ARG:NE	2.38	0.54
1:CJ:22:ILE:HA	1:CJ:41:GLU:OE1	2.06	0.54
1:CM:34:GLY:HA3	1:CM:53:PHE:O	2.06	0.54
1:CD:58:PRO:HB2	1:CK:45:TYR:CE2	2.43	0.54
1:AM:60:VAL:HG11	1:CP:87:PHE:CE2	2.43	0.54
1:AA:22:ILE:HD11	1:AA:39:VAL:HG11	1.90	0.54
1:AD:22:ILE:HD11	1:AD:39:VAL:HG11	1.90	0.54
1:BI:127:LEU:HD23	1:BL:48:ARG:HH22	1.72	0.54
1:AP:22:ILE:HD11	1:AP:39:VAL:HG11	1.90	0.54
1:DD:22:ILE:HD11	1:DD:39:VAL:HG11	1.90	0.54
1:AD:33:ASN:OD1	1:DE:30:THR:OG1	2.20	0.53
1:AI:130:LEU:HD21	1:BY:55:SER:CB	2.37	0.53
1:BO:29:GLN:HG3	1:DJ:57:VAL:HG21	1.90	0.53
1:BD:111:ILE:HD13	1:CZ:74:PHE:CZ	2.42	0.53
1:CC:22:ILE:HD11	1:CC:39:VAL:HG11	1.90	0.53
1:AO:10:GLY:N	1:AO:107:ASP:OD1	2.34	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AY:22:ILE:HD11	1:AY:39:VAL:HG11	1.90	0.53
1:CR:22:ILE:HD11	1:CR:39:VAL:HG11	1.90	0.53
1:AJ:60:VAL:HG11	1:CV:87:PHE:HE2	1.73	0.53
1:DG:22:ILE:HD11	1:DG:39:VAL:HG11	1.90	0.53
1:AJ:22:ILE:HD11	1:AJ:39:VAL:HG11	1.90	0.53
1:AO:116:LEU:O	1:CE:109:ARG:NH2	2.40	0.53
1:AG:22:ILE:HD11	1:AG:39:VAL:HG11	1.90	0.53
1:AO:90:VAL:HG12	1:CE:108:LEU:HD22	1.89	0.53
1:BN:39:VAL:HG23	1:BN:42:ASP:H	1.74	0.53
1:BW:22:ILE:HD11	1:BW:39:VAL:HG11	1.90	0.53
1:CI:22:ILE:HD11	1:CI:39:VAL:HG11	1.90	0.53
1:CJ:29:GLN:HG3	1:DA:57:VAL:HG21	1.91	0.53
1:DJ:39:VAL:HG23	1:DJ:42:ASP:H	1.74	0.53
1:AV:22:ILE:HD11	1:AV:39:VAL:HG11	1.90	0.53
1:BJ:10:GLY:N	1:BJ:107:ASP:OD1	2.34	0.53
1:BW:39:VAL:HG23	1:BW:42:ASP:H	1.74	0.53
1:BX:87:PHE:HE2	1:CL:60:VAL:HG11	1.74	0.53
1:CF:39:VAL:HG23	1:CF:42:ASP:H	1.74	0.53
1:CX:22:ILE:HD11	1:CX:39:VAL:HG11	1.90	0.53
1:AA:39:VAL:HG23	1:AA:42:ASP:H	1.74	0.53
1:AV:39:VAL:HG23	1:AV:42:ASP:H	1.74	0.53
1:AG:39:VAL:HG23	1:AG:42:ASP:H	1.74	0.53
1:BK:22:ILE:HD11	1:BK:39:VAL:HG11	1.90	0.53
1:BQ:22:ILE:HD11	1:BQ:39:VAL:HG11	1.90	0.53
1:CB:10:GLY:N	1:CB:107:ASP:OD1	2.34	0.53
1:CI:39:VAL:HG23	1:CI:42:ASP:H	1.74	0.53
1:CM:29:GLN:HG3	1:CX:57:VAL:HG21	1.90	0.53
1:DA:22:ILE:HD11	1:DA:39:VAL:HG11	1.90	0.53
1:AF:22:ILE:HD12	1:AF:49:ARG:HH21	1.74	0.53
1:AK:48:ARG:HH12	1:BX:127:LEU:HD21	1.73	0.53
1:BL:49:ARG:HG2	1:BL:76:ILE:HG12	1.91	0.53
1:CF:22:ILE:HD11	1:CF:39:VAL:HG11	1.90	0.53
1:DG:39:VAL:HG23	1:DG:42:ASP:H	1.74	0.53
1:DH:49:ARG:HG2	1:DH:76:ILE:HG12	1.91	0.53
1:AO:22:ILE:HD12	1:AO:49:ARG:HH21	1.74	0.53
1:BA:22:ILE:HD12	1:BA:49:ARG:HH21	1.74	0.53
1:BD:22:ILE:HD12	1:BD:49:ARG:HH21	1.74	0.53
1:BM:130:LEU:HD21	1:DI:55:SER:CB	2.35	0.53
1:CE:22:ILE:HD12	1:CE:49:ARG:HH21	1.74	0.53
1:AG:60:VAL:HG11	1:CS:87:PHE:CE2	2.44	0.52
1:AX:2:ILE:HD11	1:AX:124:PHE:HB2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BG:2:ILE:HD11	1:BG:124:PHE:HB2	1.91	0.52
1:BH:39:VAL:HG23	1:BH:42:ASP:H	1.74	0.52
1:BN:22:ILE:HD11	1:BN:39:VAL:HG11	1.90	0.52
1:BO:49:ARG:HG2	1:BO:76:ILE:HG12	1.91	0.52
1:CO:39:VAL:HG23	1:CO:42:ASP:H	1.74	0.52
1:BA:67:LYS:NZ	1:CW:87:PHE:O	2.34	0.52
1:DI:22:ILE:HD12	1:DI:49:ARG:HH21	1.74	0.52
1:DL:22:ILE:HD12	1:DL:49:ARG:HH21	1.74	0.52
1:AD:39:VAL:HG23	1:AD:42:ASP:H	1.74	0.52
1:AL:2:ILE:HD11	1:AL:124:PHE:HB2	1.92	0.52
1:AT:49:ARG:HG2	1:AT:76:ILE:HG12	1.91	0.52
1:BJ:2:ILE:HD11	1:BJ:124:PHE:HB2	1.92	0.52
1:BT:39:VAL:HG23	1:BT:42:ASP:H	1.74	0.52
1:BX:49:ARG:HG2	1:BX:76:ILE:HG12	1.91	0.52
1:BY:22:ILE:HD12	1:BY:49:ARG:HH21	1.74	0.52
1:CT:2:ILE:HD11	1:CT:124:PHE:HB2	1.92	0.52
1:DE:49:ARG:HG2	1:DE:76:ILE:HG12	1.91	0.52
1:AE:49:ARG:HG2	1:AE:76:ILE:HG12	1.91	0.52
1:AI:7:ILE:O	1:BY:22:ILE:HG22	2.08	0.52
1:AN:49:ARG:HG2	1:AN:76:ILE:HG12	1.91	0.52
1:AR:22:ILE:HD12	1:AR:49:ARG:HH21	1.74	0.52
1:AZ:49:ARG:HG2	1:AZ:76:ILE:HG12	1.91	0.52
1:BD:10:GLY:N	1:BD:107:ASP:OD1	2.34	0.52
1:CE:2:ILE:HD11	1:CE:124:PHE:HB2	1.92	0.52
1:CD:85:THR:N	1:CI:63:GLY:O	2.35	0.52
1:CN:22:ILE:HD12	1:CN:49:ARG:HH21	1.74	0.52
1:CO:22:ILE:HD11	1:CO:39:VAL:HG11	1.90	0.52
1:CQ:22:ILE:HD12	1:CQ:49:ARG:HH21	1.74	0.52
1:CR:39:VAL:HG23	1:CR:42:ASP:H	1.74	0.52
1:CZ:45:TYR:HA	1:CZ:48:ARG:HE	1.75	0.52
1:DC:22:ILE:HD12	1:DC:49:ARG:HH21	1.74	0.52
1:AC:45:TYR:HA	1:AC:48:ARG:HE	1.75	0.52
1:AX:22:ILE:HD12	1:AX:49:ARG:HH21	1.74	0.52
1:BA:2:ILE:HD11	1:BA:124:PHE:HB2	1.92	0.52
1:BC:49:ARG:HG2	1:BC:76:ILE:HG12	1.91	0.52
1:BQ:39:VAL:HG23	1:BQ:42:ASP:H	1.74	0.52
1:CJ:49:ARG:HG2	1:CJ:76:ILE:HG12	1.92	0.52
1:CL:22:ILE:HD11	1:CL:39:VAL:HG11	1.90	0.52
1:BM:113:ALA:HB1	1:DI:113:ALA:HB1	1.90	0.52
1:AI:2:ILE:HD11	1:AI:124:PHE:HB2	1.92	0.52
1:AO:2:ILE:HD11	1:AO:124:PHE:HB2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:45:TYR:HA	1:AR:48:ARG:HE	1.75	0.52
1:BD:45:TYR:HA	1:BD:48:ARG:HE	1.75	0.52
1:BE:39:VAL:HG23	1:BE:42:ASP:H	1.74	0.52
1:BG:108:LEU:HD22	1:DC:90:VAL:HG12	1.92	0.52
1:BJ:45:TYR:HA	1:BJ:48:ARG:HE	1.75	0.52
1:BP:45:TYR:HA	1:BP:48:ARG:HE	1.75	0.52
1:CH:45:TYR:HB2	1:CH:48:ARG:HH21	1.75	0.52
1:CQ:2:ILE:HD11	1:CQ:124:PHE:HB2	1.92	0.52
1:CS:49:ARG:HG2	1:CS:76:ILE:HG12	1.91	0.52
1:CW:22:ILE:HD12	1:CW:49:ARG:HH21	1.74	0.52
1:CW:2:ILE:HD11	1:CW:124:PHE:HB2	1.92	0.52
1:CX:39:VAL:HG23	1:CX:42:ASP:H	1.74	0.52
1:DF:2:ILE:HD11	1:DF:124:PHE:HB2	1.92	0.52
1:DF:45:TYR:HA	1:DF:48:ARG:HE	1.75	0.52
1:AL:22:ILE:HD12	1:AL:49:ARG:HH21	1.74	0.52
1:AL:45:TYR:HB2	1:AL:48:ARG:HH21	1.75	0.52
1:AU:45:TYR:HB2	1:AU:48:ARG:HH21	1.75	0.52
1:BE:22:ILE:HD11	1:BE:39:VAL:HG11	1.90	0.52
1:CG:49:ARG:HG2	1:CG:76:ILE:HG12	1.92	0.52
1:CH:2:ILE:HD11	1:CH:124:PHE:HB2	1.92	0.52
1:CH:22:ILE:HD12	1:CH:49:ARG:HH21	1.74	0.52
1:CK:45:TYR:HA	1:CK:48:ARG:HE	1.75	0.52
1:DF:22:ILE:HD12	1:DF:49:ARG:HH21	1.74	0.52
1:AF:45:TYR:HA	1:AF:48:ARG:HE	1.75	0.52
1:AJ:39:VAL:HG23	1:AJ:42:ASP:H	1.74	0.52
1:AS:39:VAL:HG23	1:AS:42:ASP:H	1.74	0.52
1:AX:45:TYR:HA	1:AX:48:ARG:HE	1.75	0.52
1:BB:39:VAL:HG23	1:BB:42:ASP:H	1.74	0.52
1:BM:22:ILE:HD12	1:BM:49:ARG:HH21	1.74	0.52
1:BS:22:ILE:HD12	1:BS:49:ARG:HH21	1.74	0.52
1:BV:45:TYR:HA	1:BV:48:ARG:HE	1.75	0.52
1:AK:87:PHE:CE2	1:BW:60:VAL:HG11	2.45	0.52
1:BX:65:TYR:HE2	1:CN:46:ARG:CA	2.17	0.52
1:CK:22:ILE:HD12	1:CK:49:ARG:HH21	1.74	0.52
1:CL:39:VAL:HG23	1:CL:42:ASP:H	1.74	0.52
1:AC:2:ILE:HD11	1:AC:124:PHE:HB2	1.92	0.52
1:BS:2:ILE:HD11	1:BS:124:PHE:HB2	1.92	0.52
1:BV:45:TYR:HB2	1:BV:48:ARG:HH21	1.75	0.52
1:BZ:22:ILE:HD11	1:BZ:39:VAL:HG11	1.90	0.52
1:AO:114:GLN:NE2	1:CE:16:ILE:HG21	2.24	0.52
1:CT:22:ILE:HD12	1:CT:49:ARG:HH21	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DC:2:ILE:HD11	1:DC:124:PHE:HB2	1.92	0.52
1:DJ:68:GLY:O	1:DJ:95:GLU:HA	2.10	0.52
1:AB:49:ARG:HG2	1:AB:76:ILE:HG12	1.91	0.52
1:AI:45:TYR:HA	1:AI:48:ARG:HE	1.75	0.52
1:AM:39:VAL:HG23	1:AM:42:ASP:H	1.74	0.52
1:AQ:49:ARG:HG2	1:AQ:76:ILE:HG12	1.91	0.52
1:BA:22:ILE:HA	1:BA:41:GLU:OE1	2.10	0.52
1:BJ:22:ILE:HD12	1:BJ:49:ARG:HH21	1.74	0.52
1:BW:68:GLY:O	1:BW:95:GLU:HA	2.10	0.52
1:BX:29:GLN:HG3	1:CL:57:VAL:HG21	1.90	0.52
1:BZ:68:GLY:O	1:BZ:95:GLU:HA	2.10	0.52
1:CB:45:TYR:HA	1:CB:48:ARG:HE	1.75	0.52
1:CE:45:TYR:HA	1:CE:48:ARG:HE	1.75	0.52
1:DD:39:VAL:HG23	1:DD:42:ASP:H	1.74	0.52
1:DF:45:TYR:HB2	1:DF:48:ARG:HH21	1.75	0.52
1:AI:22:ILE:HA	1:AI:41:GLU:OE1	2.10	0.52
1:AJ:68:GLY:O	1:AJ:95:GLU:HA	2.10	0.52
1:BF:49:ARG:HG2	1:BF:76:ILE:HG12	1.91	0.52
1:BG:45:TYR:HB2	1:BG:48:ARG:HH21	1.75	0.52
1:BI:49:ARG:HG2	1:BI:76:ILE:HG12	1.91	0.52
1:BK:39:VAL:HG23	1:BK:42:ASP:H	1.74	0.52
1:BN:68:GLY:O	1:BN:95:GLU:HA	2.10	0.52
1:BP:22:ILE:HA	1:BP:41:GLU:OE1	2.10	0.52
1:BY:45:TYR:HB2	1:BY:48:ARG:HH21	1.75	0.52
1:CB:22:ILE:HD12	1:CB:49:ARG:HH21	1.74	0.52
1:CK:2:ILE:HD11	1:CK:124:PHE:HB2	1.92	0.52
1:CM:49:ARG:HG2	1:CM:76:ILE:HG12	1.91	0.52
1:AG:60:VAL:HG11	1:CS:87:PHE:HE2	1.75	0.52
1:DB:49:ARG:HG2	1:DB:76:ILE:HG12	1.92	0.52
1:AC:22:ILE:HA	1:AC:41:GLU:OE1	2.10	0.51
1:AO:45:TYR:HB2	1:AO:48:ARG:HH21	1.75	0.51
1:AP:39:VAL:HG23	1:AP:42:ASP:H	1.74	0.51
1:AP:68:GLY:O	1:AP:95:GLU:HA	2.10	0.51
1:AU:22:ILE:HD12	1:AU:49:ARG:HH21	1.74	0.51
1:AT:48:ARG:HH12	1:AW:127:LEU:HD21	1.74	0.51
1:AX:45:TYR:HB2	1:AX:48:ARG:HH21	1.75	0.51
1:BB:68:GLY:O	1:BB:95:GLU:HA	2.10	0.51
1:BM:45:TYR:HB2	1:BM:48:ARG:HH21	1.75	0.51
1:BP:2:ILE:HD11	1:BP:124:PHE:HB2	1.92	0.51
1:BV:22:ILE:HD12	1:BV:49:ARG:HH21	1.74	0.51
1:CB:22:ILE:HA	1:CB:41:GLU:OE1	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CB:45:TYR:HB2	1:CB:48:ARG:HH21	1.75	0.51
1:CC:39:VAL:HG23	1:CC:42:ASP:H	1.74	0.51
1:CE:22:ILE:HA	1:CE:41:GLU:OE1	2.10	0.51
1:CT:22:ILE:HA	1:CT:41:GLU:OE1	2.10	0.51
1:CU:68:GLY:O	1:CU:95:GLU:HA	2.10	0.51
1:CZ:22:ILE:HA	1:CZ:41:GLU:OE1	2.10	0.51
1:DD:68:GLY:O	1:DD:95:GLU:HA	2.10	0.51
1:AD:68:GLY:O	1:AD:95:GLU:HA	2.10	0.51
1:AF:45:TYR:HB2	1:AF:48:ARG:HH21	1.75	0.51
1:AI:22:ILE:HD12	1:AI:49:ARG:HH21	1.74	0.51
1:AL:45:TYR:HA	1:AL:48:ARG:HE	1.75	0.51
1:AR:22:ILE:HA	1:AR:41:GLU:OE1	2.10	0.51
1:AU:2:ILE:HD11	1:AU:124:PHE:HB2	1.91	0.51
1:AV:68:GLY:O	1:AV:95:GLU:HA	2.10	0.51
1:BA:45:TYR:HB2	1:BA:48:ARG:HH21	1.75	0.51
1:BD:45:TYR:HB2	1:BD:48:ARG:HH21	1.75	0.51
1:CD:49:ARG:HG2	1:CD:76:ILE:HG12	1.91	0.51
1:CE:45:TYR:HB2	1:CE:48:ARG:HH21	1.75	0.51
1:CN:45:TYR:HB2	1:CN:48:ARG:HH21	1.75	0.51
1:CR:68:GLY:O	1:CR:95:GLU:HA	2.10	0.51
1:CU:39:VAL:HG23	1:CU:42:ASP:H	1.74	0.51
1:CZ:22:ILE:HD12	1:CZ:49:ARG:HH21	1.74	0.51
1:DA:39:VAL:HG23	1:DA:42:ASP:H	1.74	0.51
1:AD:65:TYR:CE2	1:DE:46:ARG:HG3	2.45	0.51
1:AL:22:ILE:HA	1:AL:41:GLU:OE1	2.10	0.51
1:AS:68:GLY:O	1:AS:95:GLU:HA	2.10	0.51
1:AU:45:TYR:HA	1:AU:48:ARG:HE	1.75	0.51
1:AY:68:GLY:O	1:AY:95:GLU:HA	2.10	0.51
1:BA:45:TYR:HA	1:BA:48:ARG:HE	1.75	0.51
1:BD:16:ILE:HD13	1:CZ:114:GLN:NE2	2.22	0.51
1:BG:45:TYR:HA	1:BG:48:ARG:HE	1.75	0.51
1:BJ:45:TYR:HB2	1:BJ:48:ARG:HH21	1.75	0.51
1:BS:45:TYR:HA	1:BS:48:ARG:HE	1.75	0.51
1:BT:68:GLY:O	1:BT:95:GLU:HA	2.10	0.51
1:BY:22:ILE:HA	1:BY:41:GLU:OE1	2.10	0.51
1:BZ:39:VAL:HG23	1:BZ:42:ASP:H	1.74	0.51
1:CB:2:ILE:HD11	1:CB:124:PHE:HB2	1.92	0.51
1:CH:45:TYR:HA	1:CH:48:ARG:HE	1.75	0.51
1:CQ:22:ILE:HA	1:CQ:41:GLU:OE1	2.10	0.51
1:CQ:45:TYR:HA	1:CQ:48:ARG:HE	1.75	0.51
1:CT:45:TYR:HB2	1:CT:48:ARG:HH21	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CV:49:ARG:HG2	1:CV:76:ILE:HG12	1.92	0.51
1:CY:49:ARG:HG2	1:CY:76:ILE:HG12	1.91	0.51
1:BD:22:ILE:HA	1:BD:41:GLU:OE1	2.10	0.51
1:BH:68:GLY:O	1:BH:95:GLU:HA	2.10	0.51
1:BM:22:ILE:HA	1:BM:41:GLU:OE1	2.10	0.51
1:BM:2:ILE:HD11	1:BM:124:PHE:HB2	1.92	0.51
1:BM:45:TYR:HA	1:BM:48:ARG:HE	1.75	0.51
1:BR:49:ARG:HG2	1:BR:76:ILE:HG12	1.91	0.51
1:BS:45:TYR:HB2	1:BS:48:ARG:HH21	1.75	0.51
1:BY:2:ILE:HD11	1:BY:124:PHE:HB2	1.92	0.51
1:DL:45:TYR:HB2	1:DL:48:ARG:HH21	1.75	0.51
1:AI:45:TYR:HB2	1:AI:48:ARG:HH21	1.75	0.51
1:AO:22:ILE:HA	1:AO:41:GLU:OE1	2.10	0.51
1:BF:65:TYR:HE2	1:BS:46:ARG:CB	2.23	0.51
1:CN:22:ILE:HA	1:CN:41:GLU:OE1	2.10	0.51
1:CN:45:TYR:HA	1:CN:48:ARG:HE	1.75	0.51
1:CP:49:ARG:HG2	1:CP:76:ILE:HG12	1.92	0.51
1:AM:60:VAL:HG11	1:CP:87:PHE:HE2	1.74	0.51
1:AA:7:ILE:HD12	1:AA:111:ILE:HG13	1.93	0.51
1:AC:22:ILE:HD12	1:AC:49:ARG:HH21	1.74	0.51
1:AF:2:ILE:HD11	1:AF:124:PHE:HB2	1.92	0.51
1:AR:2:ILE:HD11	1:AR:124:PHE:HB2	1.92	0.51
1:BK:68:GLY:O	1:BK:95:GLU:HA	2.10	0.51
1:BV:22:ILE:HA	1:BV:41:GLU:OE1	2.10	0.51
1:CC:9:THR:HG22	1:CC:111:ILE:HD12	1.93	0.51
1:AO:130:LEU:HD21	1:CE:55:SER:HB3	1.92	0.51
1:CN:2:ILE:HD11	1:CN:124:PHE:HB2	1.92	0.51
1:DF:22:ILE:HA	1:DF:41:GLU:OE1	2.10	0.51
1:DI:45:TYR:HA	1:DI:48:ARG:HE	1.75	0.51
1:AD:9:THR:HG22	1:AD:111:ILE:HD12	1.93	0.51
1:AO:45:TYR:HA	1:AO:48:ARG:HE	1.75	0.51
1:BH:7:ILE:HD12	1:BH:111:ILE:HG13	1.93	0.51
1:BN:7:ILE:HD12	1:BN:111:ILE:HG13	1.93	0.51
1:BQ:68:GLY:O	1:BQ:95:GLU:HA	2.10	0.51
1:BU:49:ARG:HG2	1:BU:76:ILE:HG12	1.91	0.51
1:CF:9:THR:HG22	1:CF:111:ILE:HD12	1.93	0.51
1:CL:68:GLY:O	1:CL:95:GLU:HA	2.10	0.51
1:CO:68:GLY:O	1:CO:95:GLU:HA	2.10	0.51
1:CR:9:THR:HG22	1:CR:111:ILE:HD12	1.93	0.51
1:CU:9:THR:HG22	1:CU:111:ILE:HD12	1.93	0.51
1:CX:7:ILE:HD12	1:CX:111:ILE:HG13	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DC:45:TYR:HB2	1:DC:48:ARG:HH21	1.75	0.51
1:DG:7:ILE:HD12	1:DG:111:ILE:HG13	1.93	0.51
1:BU:46:ARG:NH2	1:DG:99:ALA:HA	2.25	0.51
1:DL:2:ILE:HD11	1:DL:124:PHE:HB2	1.92	0.51
1:DL:22:ILE:HA	1:DL:41:GLU:OE1	2.10	0.51
1:DL:45:TYR:HA	1:DL:48:ARG:HE	1.75	0.51
1:AG:68:GLY:O	1:AG:95:GLU:HA	2.10	0.51
1:AH:49:ARG:HG2	1:AH:76:ILE:HG12	1.91	0.51
1:AW:49:ARG:HG2	1:AW:76:ILE:HG12	1.91	0.51
1:AY:39:VAL:HG23	1:AY:42:ASP:H	1.74	0.51
1:AY:7:ILE:HD12	1:AY:111:ILE:HG13	1.93	0.51
1:BC:65:TYR:CE2	1:BP:46:ARG:HA	2.45	0.51
1:BE:9:THR:HG22	1:BE:111:ILE:HD12	1.93	0.51
1:BG:22:ILE:HA	1:BG:41:GLU:OE1	2.10	0.51
1:BJ:22:ILE:HA	1:BJ:41:GLU:OE1	2.10	0.51
1:BV:10:GLY:N	1:BV:107:ASP:OD1	2.34	0.51
1:BV:2:ILE:HD11	1:BV:124:PHE:HB2	1.91	0.51
1:DA:68:GLY:O	1:DA:95:GLU:HA	2.10	0.51
1:DC:22:ILE:HA	1:DC:41:GLU:OE1	2.10	0.51
1:DG:68:GLY:O	1:DG:95:GLU:HA	2.10	0.51
1:DI:22:ILE:HA	1:DI:41:GLU:OE1	2.10	0.51
1:DK:49:ARG:HG2	1:DK:76:ILE:HG12	1.91	0.51
1:AA:68:GLY:O	1:AA:95:GLU:HA	2.10	0.51
1:BB:9:THR:HG22	1:BB:111:ILE:HD12	1.93	0.51
1:BE:68:GLY:O	1:BE:95:GLU:HA	2.10	0.51
1:CA:49:ARG:HG2	1:CA:76:ILE:HG12	1.91	0.51
1:AR:110:LEU:HD23	1:CK:16:ILE:HD11	1.92	0.51
1:CU:7:ILE:HD12	1:CU:111:ILE:HG13	1.93	0.51
1:CW:45:TYR:HA	1:CW:48:ARG:HE	1.75	0.51
1:CZ:2:ILE:HD11	1:CZ:124:PHE:HB2	1.92	0.51
1:AM:68:GLY:O	1:AM:95:GLU:HA	2.10	0.51
1:AM:7:ILE:HD12	1:AM:111:ILE:HG13	1.93	0.51
1:AS:7:ILE:HD12	1:AS:111:ILE:HG13	1.93	0.51
1:AV:9:THR:HG22	1:AV:111:ILE:HD12	1.93	0.51
1:AX:22:ILE:HA	1:AX:41:GLU:OE1	2.10	0.51
1:AE:48:ARG:HH12	1:BF:127:LEU:HD21	1.76	0.51
1:BJ:26:LEU:HB3	1:BK:130:LEU:O	2.11	0.51
1:BK:7:ILE:HD12	1:BK:111:ILE:HG13	1.93	0.51
1:CA:65:TYR:CE2	1:CH:46:ARG:HG2	2.46	0.51
1:CI:68:GLY:O	1:CI:95:GLU:HA	2.10	0.51
1:CM:87:PHE:HE2	1:CX:60:VAL:HG11	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CW:45:TYR:HB2	1:CW:48:ARG:HH21	1.75	0.51
1:AF:22:ILE:HA	1:AF:41:GLU:OE1	2.10	0.50
1:AK:49:ARG:HG2	1:AK:76:ILE:HG12	1.91	0.50
1:BN:9:THR:HG22	1:BN:111:ILE:HD12	1.93	0.50
1:BT:7:ILE:HD12	1:BT:111:ILE:HG13	1.93	0.50
1:BW:7:ILE:HD12	1:BW:111:ILE:HG13	1.93	0.50
1:BZ:9:THR:HG22	1:BZ:111:ILE:HD12	1.93	0.50
1:BZ:7:ILE:HD12	1:BZ:111:ILE:HG13	1.93	0.50
1:CC:7:ILE:HD12	1:CC:111:ILE:HG13	1.93	0.50
1:CH:22:ILE:HA	1:CH:41:GLU:OE1	2.10	0.50
1:CQ:45:TYR:HB2	1:CQ:48:ARG:HH21	1.75	0.50
1:CT:45:TYR:HA	1:CT:48:ARG:HE	1.75	0.50
1:BA:22:ILE:O	1:CW:6:SER:HA	2.11	0.50
1:CZ:45:TYR:HB2	1:CZ:48:ARG:HH21	1.75	0.50
1:DD:7:ILE:HD12	1:DD:111:ILE:HG13	1.93	0.50
1:DG:9:THR:HG22	1:DG:111:ILE:HD12	1.93	0.50
1:AG:7:ILE:HD12	1:AG:111:ILE:HG13	1.93	0.50
1:AK:46:ARG:NH2	1:BW:99:ALA:HA	2.26	0.50
1:AY:9:THR:HG22	1:AY:111:ILE:HD12	1.93	0.50
1:BH:9:THR:HG22	1:BH:111:ILE:HD12	1.93	0.50
1:BP:22:ILE:HD12	1:BP:49:ARG:HH21	1.74	0.50
1:BS:22:ILE:HA	1:BS:41:GLU:OE1	2.10	0.50
1:CO:9:THR:HG22	1:CO:111:ILE:HD12	1.93	0.50
1:DJ:7:ILE:HD12	1:DJ:111:ILE:HG13	1.93	0.50
1:AA:9:THR:HG22	1:AA:111:ILE:HD12	1.93	0.50
1:AC:45:TYR:HB2	1:AC:48:ARG:HH21	1.75	0.50
1:AI:128:GLY:O	1:BW:28:GLY:HA3	2.11	0.50
1:AM:22:ILE:HA	1:AM:41:GLU:OE1	2.12	0.50
1:AR:45:TYR:HB2	1:AR:48:ARG:HH21	1.75	0.50
1:AU:22:ILE:HA	1:AU:41:GLU:OE1	2.10	0.50
1:AX:16:ILE:HG21	1:CT:114:GLN:NE2	2.26	0.50
1:BE:7:ILE:HD12	1:BE:111:ILE:HG13	1.93	0.50
1:BQ:7:ILE:HD12	1:BQ:111:ILE:HG13	1.93	0.50
1:BW:9:THR:HG22	1:BW:111:ILE:HD12	1.93	0.50
1:BY:45:TYR:HA	1:BY:48:ARG:HE	1.75	0.50
1:AH:48:ARG:HH12	1:CD:127:LEU:HD21	1.76	0.50
1:CF:68:GLY:O	1:CF:95:GLU:HA	2.10	0.50
1:CL:7:ILE:HD12	1:CL:111:ILE:HG13	1.93	0.50
1:CX:68:GLY:O	1:CX:95:GLU:HA	2.10	0.50
1:DA:9:THR:HG22	1:DA:111:ILE:HD12	1.93	0.50
1:DA:7:ILE:HD12	1:DA:111:ILE:HG13	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:46:ARG:HG3	1:AS:65:TYR:CD2	2.46	0.50
1:AY:22:ILE:HA	1:AY:41:GLU:OE1	2.12	0.50
1:BB:7:ILE:HD12	1:BB:111:ILE:HG13	1.93	0.50
1:BD:2:ILE:HD11	1:BD:124:PHE:HB2	1.92	0.50
1:BG:22:ILE:HD12	1:BG:49:ARG:HH21	1.74	0.50
1:CC:68:GLY:O	1:CC:95:GLU:HA	2.10	0.50
1:CK:22:ILE:HA	1:CK:41:GLU:OE1	2.10	0.50
1:CL:22:ILE:HA	1:CL:41:GLU:OE1	2.12	0.50
1:CR:22:ILE:HA	1:CR:41:GLU:OE1	2.12	0.50
1:AC:125:TRP:O	1:BP:70:ASN:ND2	2.44	0.50
1:BH:22:ILE:HA	1:BH:41:GLU:OE1	2.12	0.50
1:BK:9:THR:HG22	1:BK:111:ILE:HD12	1.93	0.50
1:BP:45:TYR:HB2	1:BP:48:ARG:HH21	1.75	0.50
1:CK:45:TYR:HB2	1:CK:48:ARG:HH21	1.75	0.50
1:CX:22:ILE:HA	1:CX:41:GLU:OE1	2.12	0.50
1:AD:7:ILE:HD12	1:AD:111:ILE:HG13	1.93	0.50
1:AE:87:PHE:CZ	1:BE:60:VAL:HG11	2.46	0.50
1:AJ:22:ILE:HA	1:AJ:41:GLU:OE1	2.12	0.50
1:AB:48:ARG:HH12	1:AT:127:LEU:HD21	1.76	0.50
1:BJ:40:SER:HB2	1:BK:127:LEU:HD13	1.93	0.50
1:BN:22:ILE:HA	1:BN:41:GLU:OE1	2.12	0.50
1:AN:33:ASN:OD1	1:CB:30:THR:OG1	2.30	0.50
1:CL:9:THR:HG22	1:CL:111:ILE:HD12	1.93	0.50
1:CW:22:ILE:HA	1:CW:41:GLU:OE1	2.10	0.50
1:DD:22:ILE:HA	1:DD:41:GLU:OE1	2.12	0.50
1:DI:2:ILE:HD11	1:DI:124:PHE:HB2	1.92	0.50
1:AV:22:ILE:HA	1:AV:41:GLU:OE1	2.12	0.50
1:BE:22:ILE:HA	1:BE:41:GLU:OE1	2.12	0.50
1:BT:9:THR:HG22	1:BT:111:ILE:HD12	1.93	0.50
1:CF:22:ILE:HA	1:CF:41:GLU:OE1	2.12	0.50
1:DC:45:TYR:HA	1:DC:48:ARG:HE	1.75	0.50
1:DI:45:TYR:HB2	1:DI:48:ARG:HH21	1.75	0.50
1:BF:48:ARG:HH12	1:BR:127:LEU:HD21	1.77	0.50
1:CC:22:ILE:HA	1:CC:41:GLU:OE1	2.12	0.50
1:CF:7:ILE:HD12	1:CF:111:ILE:HG13	1.93	0.50
1:BX:98:PRO:HB2	1:CN:46:ARG:HG3	1.94	0.50
1:CU:22:ILE:HA	1:CU:41:GLU:OE1	2.12	0.50
1:AG:9:THR:HG22	1:AG:111:ILE:HD12	1.93	0.50
1:AM:9:THR:HG22	1:AM:111:ILE:HD12	1.93	0.50
1:BK:22:ILE:HA	1:BK:41:GLU:OE1	2.12	0.50
1:BH:65:TYR:CE2	1:BL:46:ARG:HG3	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BW:22:ILE:HA	1:BW:41:GLU:OE1	2.12	0.50
1:CI:22:ILE:HA	1:CI:41:GLU:OE1	2.12	0.50
1:DG:22:ILE:HA	1:DG:41:GLU:OE1	2.12	0.50
1:DJ:22:ILE:HA	1:DJ:41:GLU:OE1	2.12	0.50
1:AI:46:ARG:HG2	1:CS:65:TYR:CD2	2.47	0.49
1:AW:65:TYR:HD2	1:BV:46:ARG:HG2	1.74	0.49
1:CI:7:ILE:HD12	1:CI:111:ILE:HG13	1.93	0.49
1:AP:9:THR:HG22	1:AP:111:ILE:HD12	1.93	0.49
1:CR:7:ILE:HD12	1:CR:111:ILE:HG13	1.93	0.49
1:DJ:9:THR:HG22	1:DJ:111:ILE:HD12	1.93	0.49
1:AP:7:ILE:HD12	1:AP:111:ILE:HG13	1.93	0.49
1:AS:22:ILE:HA	1:AS:41:GLU:OE1	2.12	0.49
1:AV:7:ILE:HD12	1:AV:111:ILE:HG13	1.93	0.49
1:BQ:9:THR:HG22	1:BQ:111:ILE:HD12	1.93	0.49
1:AO:55:SER:HB3	1:CE:130:LEU:HD21	1.94	0.49
1:AD:60:VAL:HG11	1:DE:87:PHE:CE2	2.48	0.49
1:AJ:9:THR:HG22	1:AJ:111:ILE:HD12	1.93	0.49
1:AO:108:LEU:HA	1:AO:111:ILE:HG22	1.95	0.49
1:BG:19:GLY:O	1:DC:8:LYS:HD2	2.13	0.49
1:BQ:22:ILE:HA	1:BQ:41:GLU:OE1	2.12	0.49
1:CI:9:THR:HG22	1:CI:111:ILE:HD12	1.93	0.49
1:CO:7:ILE:HD12	1:CO:111:ILE:HG13	1.93	0.49
1:CX:9:THR:HG22	1:CX:111:ILE:HD12	1.93	0.49
1:AD:22:ILE:HA	1:AD:41:GLU:OE1	2.12	0.49
1:AO:17:THR:O	1:CE:12:THR:OG1	2.23	0.49
1:BP:108:LEU:HA	1:BP:111:ILE:HG22	1.95	0.49
1:AO:18:GLY:CA	1:CE:11:ALA:HA	2.42	0.49
1:DA:22:ILE:HA	1:DA:41:GLU:OE1	2.12	0.49
1:AA:22:ILE:HA	1:AA:41:GLU:OE1	2.12	0.49
1:AR:108:LEU:HA	1:AR:111:ILE:HG22	1.95	0.49
1:BT:22:ILE:HA	1:BT:41:GLU:OE1	2.12	0.49
1:BY:9:THR:HG22	1:BY:111:ILE:HD12	1.95	0.49
1:BZ:22:ILE:HA	1:BZ:41:GLU:OE1	2.12	0.49
1:CO:22:ILE:HA	1:CO:41:GLU:OE1	2.12	0.49
1:BG:14:ALA:HB2	1:DC:16:ILE:HD12	1.95	0.49
1:DD:9:THR:HG22	1:DD:111:ILE:HD12	1.93	0.49
1:AC:108:LEU:HA	1:AC:111:ILE:HG22	1.95	0.49
1:AG:22:ILE:HA	1:AG:41:GLU:OE1	2.12	0.49
1:AJ:7:ILE:HD12	1:AJ:111:ILE:HG13	1.93	0.49
1:AB:87:PHE:HE2	1:AS:60:VAL:HG11	1.78	0.49
1:BG:108:LEU:HA	1:BG:111:ILE:HG22	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BM:108:LEU:HA	1:BM:111:ILE:HG22	1.95	0.49
1:BS:108:LEU:HA	1:BS:111:ILE:HG22	1.95	0.49
1:BS:9:THR:HG22	1:BS:111:ILE:HD12	1.95	0.49
1:CK:108:LEU:HA	1:CK:111:ILE:HG22	1.95	0.49
1:CQ:108:LEU:HA	1:CQ:111:ILE:HG22	1.95	0.49
1:AW:65:TYR:HE2	1:BV:46:ARG:HA	1.77	0.49
1:CN:108:LEU:HA	1:CN:111:ILE:HG22	1.95	0.49
1:CR:99:ALA:HA	1:DB:46:ARG:NH2	2.28	0.49
1:CZ:108:LEU:HA	1:CZ:111:ILE:HG22	1.95	0.49
1:DF:108:LEU:HA	1:DF:111:ILE:HG22	1.95	0.49
1:BM:9:THR:HG22	1:BM:111:ILE:HD12	1.95	0.49
1:CI:130:LEU:O	1:DC:26:LEU:HB3	2.13	0.49
1:CK:9:THR:HG22	1:CK:111:ILE:HD12	1.95	0.49
1:BJ:125:TRP:O	1:DF:70:ASN:ND2	2.46	0.49
1:AL:108:LEU:HA	1:AL:111:ILE:HG22	1.95	0.49
1:CU:57:VAL:HG21	1:CY:29:GLN:HG3	1.94	0.49
1:AC:22:ILE:O	1:BP:6:SER:HA	2.12	0.48
1:BD:108:LEU:HA	1:BD:111:ILE:HG22	1.95	0.48
1:CA:87:PHE:CZ	1:CF:60:VAL:HG11	2.47	0.48
1:CQ:9:THR:HG22	1:CQ:111:ILE:HD12	1.95	0.48
1:CT:9:THR:HG22	1:CT:111:ILE:HD12	1.95	0.48
1:DC:9:THR:HG22	1:DC:111:ILE:HD12	1.95	0.48
1:AW:87:PHE:CE2	1:BT:60:VAL:HG11	2.48	0.48
1:BB:22:ILE:HA	1:BB:41:GLU:OE1	2.12	0.48
1:AD:130:LEU:O	1:BG:26:LEU:HB3	2.13	0.48
1:BM:68:GLY:O	1:BM:95:GLU:HA	2.14	0.48
1:BX:79:SER:HA	1:BX:85:THR:HG22	1.96	0.48
1:BG:22:ILE:O	1:DC:6:SER:HA	2.13	0.48
1:DL:68:GLY:O	1:DL:95:GLU:HA	2.14	0.48
1:AL:9:THR:HG22	1:AL:111:ILE:HD12	1.95	0.48
1:AO:68:GLY:O	1:AO:95:GLU:HA	2.14	0.48
1:AR:9:THR:HG22	1:AR:111:ILE:HD12	1.95	0.48
1:AS:9:THR:HG22	1:AS:111:ILE:HD12	1.93	0.48
1:AU:9:THR:HG22	1:AU:111:ILE:HD12	1.95	0.48
1:AW:79:SER:HA	1:AW:85:THR:HG22	1.96	0.48
1:BA:108:LEU:HA	1:BA:111:ILE:HG22	1.95	0.48
1:CD:79:SER:HA	1:CD:85:THR:HG22	1.96	0.48
1:CH:68:GLY:O	1:CH:95:GLU:HA	2.14	0.48
1:CD:46:ARG:HG3	1:CI:65:TYR:CE2	2.48	0.48
1:DI:108:LEU:HA	1:DI:111:ILE:HG22	1.95	0.48
1:DI:9:THR:HG22	1:DI:111:ILE:HD12	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:79:SER:HA	1:AE:85:THR:HG22	1.96	0.48
1:AF:9:THR:HG22	1:AF:111:ILE:HD12	1.95	0.48
1:AO:18:GLY:HA2	1:CE:11:ALA:HA	1.96	0.48
1:AX:9:THR:HG22	1:AX:111:ILE:HD12	1.95	0.48
1:BG:68:GLY:O	1:BG:95:GLU:HA	2.14	0.48
1:BJ:68:GLY:O	1:BJ:95:GLU:HA	2.14	0.48
1:CA:65:TYR:CE2	1:CH:46:ARG:HA	2.48	0.48
1:CG:79:SER:HA	1:CG:85:THR:HG22	1.96	0.48
1:CN:68:GLY:O	1:CN:95:GLU:HA	2.14	0.48
1:CT:68:GLY:O	1:CT:95:GLU:HA	2.14	0.48
1:CZ:68:GLY:O	1:CZ:95:GLU:HA	2.14	0.48
1:DC:68:GLY:O	1:DC:95:GLU:HA	2.14	0.48
1:DH:79:SER:HA	1:DH:85:THR:HG22	1.96	0.48
1:AB:79:SER:HA	1:AB:85:THR:HG22	1.96	0.48
1:AI:111:ILE:HD13	1:BY:74:PHE:CZ	2.48	0.48
1:AK:79:SER:HA	1:AK:85:THR:HG22	1.96	0.48
1:BJ:46:ARG:HG2	1:BL:65:TYR:CE2	2.48	0.48
1:BT:130:LEU:O	1:DI:26:LEU:HB3	2.14	0.48
1:CA:79:SER:HA	1:CA:85:THR:HG22	1.96	0.48
1:AU:22:ILE:HG22	1:CN:7:ILE:O	2.14	0.48
1:DK:79:SER:HA	1:DK:85:THR:HG22	1.96	0.48
1:AA:7:ILE:O	1:AB:22:ILE:HG22	2.14	0.48
1:AI:108:LEU:HA	1:AI:111:ILE:HG22	1.95	0.48
1:AT:79:SER:HA	1:AT:85:THR:HG22	1.96	0.48
1:BA:9:THR:HG22	1:BA:111:ILE:HD12	1.95	0.48
1:BB:7:ILE:O	1:BC:22:ILE:HG22	2.14	0.48
1:BE:7:ILE:O	1:BF:22:ILE:HG22	2.14	0.48
1:BK:7:ILE:O	1:BL:22:ILE:HG22	2.14	0.48
1:BO:79:SER:HA	1:BO:85:THR:HG22	1.96	0.48
1:BP:68:GLY:O	1:BP:95:GLU:HA	2.14	0.48
1:BS:68:GLY:O	1:BS:95:GLU:HA	2.14	0.48
1:BV:68:GLY:O	1:BV:95:GLU:HA	2.14	0.48
1:BY:68:GLY:O	1:BY:95:GLU:HA	2.14	0.48
1:BZ:7:ILE:O	1:CA:22:ILE:HG22	2.14	0.48
1:CE:108:LEU:HA	1:CE:111:ILE:HG22	1.95	0.48
1:DF:9:THR:HG22	1:DF:111:ILE:HD12	1.95	0.48
1:AC:68:GLY:O	1:AC:95:GLU:HA	2.14	0.48
1:AD:7:ILE:O	1:AE:22:ILE:HG22	2.14	0.48
1:AL:68:GLY:O	1:AL:95:GLU:HA	2.14	0.48
1:BD:68:GLY:O	1:BD:95:GLU:HA	2.14	0.48
1:BJ:122:ASP:OD1	1:DF:109:ARG:NH1	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CE:68:GLY:O	1:CE:95:GLU:HA	2.14	0.48
1:CH:108:LEU:HA	1:CH:111:ILE:HG22	1.95	0.48
1:CH:9:THR:HG22	1:CH:111:ILE:HD12	1.95	0.48
1:BX:87:PHE:CE2	1:CL:60:VAL:HG11	2.49	0.48
1:CM:87:PHE:CE2	1:CX:60:VAL:HG11	2.48	0.48
1:DD:7:ILE:O	1:DE:22:ILE:HG22	2.14	0.48
1:DF:68:GLY:O	1:DF:95:GLU:HA	2.14	0.48
1:AP:22:ILE:HA	1:AP:41:GLU:OE1	2.12	0.48
1:AT:29:GLN:HG3	1:AV:57:VAL:HG21	1.96	0.48
1:AX:108:LEU:HA	1:AX:111:ILE:HG22	1.95	0.48
1:BC:79:SER:HA	1:BC:85:THR:HG22	1.95	0.48
1:BC:65:TYR:CE2	1:BP:46:ARG:HG2	2.48	0.48
1:BR:79:SER:HA	1:BR:85:THR:HG22	1.96	0.48
1:CK:68:GLY:O	1:CK:95:GLU:HA	2.14	0.48
1:CN:9:THR:HG22	1:CN:111:ILE:HD12	1.95	0.48
1:CU:7:ILE:O	1:CV:22:ILE:HG22	2.14	0.48
1:DJ:7:ILE:O	1:DK:22:ILE:HG22	2.14	0.48
1:DL:9:THR:HG22	1:DL:111:ILE:HD12	1.95	0.48
1:AQ:79:SER:HA	1:AQ:85:THR:HG22	1.96	0.48
1:BD:9:THR:HG22	1:BD:111:ILE:HD12	1.95	0.48
1:CD:58:PRO:HG2	1:CK:45:TYR:CD2	2.49	0.48
1:CE:9:THR:HG22	1:CE:111:ILE:HD12	1.95	0.48
1:CJ:79:SER:HA	1:CJ:85:THR:HG22	1.96	0.48
1:DC:108:LEU:HA	1:DC:111:ILE:HG22	1.95	0.48
1:AI:68:GLY:O	1:AI:95:GLU:HA	2.14	0.48
1:AU:68:GLY:O	1:AU:95:GLU:HA	2.14	0.48
1:AX:8:LYS:HD2	1:CT:19:GLY:O	2.13	0.48
1:BV:108:LEU:HA	1:BV:111:ILE:HG22	1.95	0.48
1:CC:7:ILE:O	1:CD:22:ILE:HG22	2.14	0.48
1:AM:57:VAL:HG21	1:CP:29:GLN:HG3	1.95	0.48
1:CW:9:THR:HG22	1:CW:111:ILE:HD12	1.95	0.48
1:CX:7:ILE:O	1:CY:22:ILE:HG22	2.14	0.48
1:AK:29:GLN:HB3	1:AK:36:ASN:HD22	1.80	0.47
1:AP:22:ILE:HG22	1:AQ:7:ILE:O	2.14	0.47
1:AP:7:ILE:O	1:AQ:22:ILE:HG22	2.14	0.47
1:BA:68:GLY:O	1:BA:95:GLU:HA	2.14	0.47
1:BG:9:THR:HG22	1:BG:111:ILE:HD12	1.95	0.47
1:BK:22:ILE:HG22	1:BL:7:ILE:O	2.14	0.47
1:BR:29:GLN:HB3	1:BR:36:ASN:HD22	1.79	0.47
1:BW:7:ILE:O	1:BX:22:ILE:HG22	2.14	0.47
1:CW:108:LEU:HA	1:CW:111:ILE:HG22	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CY:29:GLN:HB3	1:CY:36:ASN:HD22	1.79	0.47
1:DG:7:ILE:O	1:DH:22:ILE:HG22	2.14	0.47
1:DI:68:GLY:O	1:DI:95:GLU:HA	2.14	0.47
1:AE:29:GLN:HB3	1:AE:36:ASN:HD22	1.80	0.47
1:AJ:7:ILE:O	1:AK:22:ILE:HG22	2.14	0.47
1:AN:29:GLN:HB3	1:AN:36:ASN:HD22	1.79	0.47
1:AU:108:LEU:HA	1:AU:111:ILE:HG22	1.95	0.47
1:AV:7:ILE:O	1:AW:22:ILE:HG22	2.14	0.47
1:BH:22:ILE:HG22	1:BI:7:ILE:O	2.14	0.47
1:BL:79:SER:HA	1:BL:85:THR:HG22	1.95	0.47
1:BU:79:SER:HA	1:BU:85:THR:HG22	1.96	0.47
1:CB:9:THR:HG22	1:CB:111:ILE:HD12	1.95	0.47
1:CF:22:ILE:HG22	1:CG:7:ILE:O	2.14	0.47
1:CM:29:GLN:HB3	1:CM:36:ASN:HD22	1.80	0.47
1:CM:79:SER:HA	1:CM:85:THR:HG22	1.96	0.47
1:CP:29:GLN:HB3	1:CP:36:ASN:HD22	1.80	0.47
1:CP:79:SER:HA	1:CP:85:THR:HG22	1.95	0.47
1:CT:108:LEU:HA	1:CT:111:ILE:HG22	1.95	0.47
1:CW:68:GLY:O	1:CW:95:GLU:HA	2.14	0.47
1:AA:22:ILE:HG22	1:AB:7:ILE:O	2.14	0.47
1:AD:22:ILE:HG22	1:AE:7:ILE:O	2.14	0.47
1:AO:9:THR:HG22	1:AO:111:ILE:HD12	1.95	0.47
1:AS:130:LEU:O	1:AX:26:LEU:HB3	2.15	0.47
1:AT:33:ASN:OD1	1:AX:30:THR:OG1	2.32	0.47
1:BB:22:ILE:HG22	1:BC:7:ILE:O	2.14	0.47
1:BC:29:GLN:HB3	1:BC:36:ASN:HD22	1.80	0.47
1:AE:46:ARG:NH2	1:BE:99:ALA:HA	2.28	0.47
1:BF:79:SER:HA	1:BF:85:THR:HG22	1.96	0.47
1:BL:29:GLN:HB3	1:BL:36:ASN:HD22	1.80	0.47
1:BQ:7:ILE:O	1:BR:22:ILE:HG22	2.14	0.47
1:BQ:22:ILE:HG22	1:BR:7:ILE:O	2.14	0.47
1:BY:108:LEU:HA	1:BY:111:ILE:HG22	1.95	0.47
1:CL:22:ILE:HG22	1:CM:7:ILE:O	2.14	0.47
1:CV:29:GLN:HB3	1:CV:36:ASN:HD22	1.80	0.47
1:AC:9:THR:HG22	1:AC:111:ILE:HD12	1.95	0.47
1:AT:29:GLN:HB3	1:AT:36:ASN:HD22	1.80	0.47
1:AY:7:ILE:O	1:AZ:22:ILE:HG22	2.14	0.47
1:BH:7:ILE:O	1:BI:22:ILE:HG22	2.14	0.47
1:BN:7:ILE:O	1:BO:22:ILE:HG22	2.14	0.47
1:BP:9:THR:HG22	1:BP:111:ILE:HD12	1.95	0.47
1:AI:92:ILE:HG12	1:BY:92:ILE:HG12	1.94	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CF:7:ILE:O	1:CG:22:ILE:HG22	2.14	0.47
1:CO:7:ILE:O	1:CP:22:ILE:HG22	2.14	0.47
1:CS:79:SER:HA	1:CS:85:THR:HG22	1.96	0.47
1:DA:22:ILE:HG22	1:DB:7:ILE:O	2.14	0.47
1:DJ:22:ILE:HG22	1:DK:7:ILE:O	2.14	0.47
1:AC:122:ASP:OD1	1:BP:109:ARG:NH1	2.44	0.47
1:AF:108:LEU:HA	1:AF:111:ILE:HG22	1.95	0.47
1:AF:68:GLY:O	1:AF:95:GLU:HA	2.14	0.47
1:AH:29:GLN:HB3	1:AH:36:ASN:HD22	1.80	0.47
1:AH:79:SER:HA	1:AH:85:THR:HG22	1.95	0.47
1:AI:9:THR:HG22	1:AI:111:ILE:HD12	1.95	0.47
1:AM:7:ILE:O	1:AN:22:ILE:HG22	2.14	0.47
1:AW:87:PHE:HE2	1:BT:60:VAL:HG11	1.79	0.47
1:BC:48:ARG:HH12	1:BO:127:LEU:HD21	1.79	0.47
1:BE:22:ILE:HG22	1:BF:7:ILE:O	2.14	0.47
1:BJ:45:TYR:CE2	1:BL:58:PRO:HD2	2.50	0.47
1:AG:127:LEU:HD13	1:CE:40:SER:HB2	1.95	0.47
1:CI:7:ILE:O	1:CJ:22:ILE:HG22	2.14	0.47
1:CP:53:PHE:CD1	1:CP:72:VAL:HG22	2.50	0.47
1:CZ:9:THR:HG22	1:CZ:111:ILE:HD12	1.95	0.47
1:DE:29:GLN:HB3	1:DE:36:ASN:HD22	1.80	0.47
1:AJ:130:LEU:O	1:BY:26:LEU:HB3	2.14	0.47
1:AZ:53:PHE:CD1	1:AZ:72:VAL:HG22	2.50	0.47
1:AZ:79:SER:HA	1:AZ:85:THR:HG22	1.96	0.47
1:BI:79:SER:HA	1:BI:85:THR:HG22	1.95	0.47
1:BU:29:GLN:HB3	1:BU:36:ASN:HD22	1.79	0.47
1:CB:108:LEU:HA	1:CB:111:ILE:HG22	1.95	0.47
1:AO:128:GLY:O	1:CC:28:GLY:HA3	2.14	0.47
1:CQ:68:GLY:O	1:CQ:95:GLU:HA	2.14	0.47
1:CS:29:GLN:HB3	1:CS:36:ASN:HD22	1.80	0.47
1:CU:22:ILE:HG22	1:CV:7:ILE:O	2.14	0.47
1:AB:53:PHE:CD1	1:AB:72:VAL:HG22	2.50	0.47
1:AG:7:ILE:O	1:AH:22:ILE:HG22	2.14	0.47
1:AI:113:ALA:HB1	1:BY:113:ALA:HB1	1.97	0.47
1:AN:48:ARG:HH12	1:CA:127:LEU:HD21	1.80	0.47
1:AR:68:GLY:O	1:AR:95:GLU:HA	2.14	0.47
1:AS:7:ILE:O	1:AT:22:ILE:HG22	2.14	0.47
1:BB:127:LEU:HD13	1:BP:40:SER:HB2	1.97	0.47
1:BJ:108:LEU:HA	1:BJ:111:ILE:HG22	1.95	0.47
1:BO:53:PHE:CD1	1:BO:72:VAL:HG22	2.50	0.47
1:AW:46:ARG:HG3	1:BT:65:TYR:CE2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CG:53:PHE:CD1	1:CG:72:VAL:HG22	2.50	0.47
1:CY:79:SER:HA	1:CY:85:THR:HG22	1.95	0.47
1:DB:29:GLN:HB3	1:DB:36:ASN:HD22	1.79	0.47
1:AE:53:PHE:CD1	1:AE:72:VAL:HG22	2.50	0.47
1:AQ:53:PHE:CD1	1:AQ:72:VAL:HG22	2.50	0.47
1:AX:68:GLY:O	1:AX:95:GLU:HA	2.14	0.47
1:BT:7:ILE:O	1:BU:22:ILE:HG22	2.14	0.47
1:BX:29:GLN:HB3	1:BX:36:ASN:HD22	1.80	0.47
1:CA:29:GLN:HB3	1:CA:36:ASN:HD22	1.79	0.47
1:CB:68:GLY:O	1:CB:95:GLU:HA	2.14	0.47
1:AR:22:ILE:HG22	1:CK:7:ILE:O	2.13	0.47
1:CL:7:ILE:O	1:CM:22:ILE:HG22	2.14	0.47
1:CR:7:ILE:O	1:CS:22:ILE:HG22	2.14	0.47
1:CS:53:PHE:CD1	1:CS:72:VAL:HG22	2.50	0.47
1:CV:79:SER:HA	1:CV:85:THR:HG22	1.95	0.47
1:CX:22:ILE:HG22	1:CY:7:ILE:O	2.14	0.47
1:CJ:87:PHE:HE2	1:DA:60:VAL:HG11	1.79	0.47
1:DE:79:SER:HA	1:DE:85:THR:HG22	1.96	0.47
1:AB:29:GLN:HB3	1:AB:36:ASN:HD22	1.80	0.47
1:AR:16:ILE:HD13	1:CK:114:GLN:NE2	2.17	0.47
1:AS:22:ILE:HG22	1:AT:7:ILE:O	2.14	0.47
1:BC:53:PHE:CD1	1:BC:72:VAL:HG22	2.50	0.47
1:BF:53:PHE:CD1	1:BF:72:VAL:HG22	2.50	0.47
1:BR:53:PHE:CD1	1:BR:72:VAL:HG22	2.50	0.47
1:CC:22:ILE:HG22	1:CD:7:ILE:O	2.14	0.47
1:CR:22:ILE:HG22	1:CS:7:ILE:O	2.14	0.47
1:CY:53:PHE:CD1	1:CY:72:VAL:HG22	2.50	0.47
1:BG:128:GLY:O	1:DA:28:GLY:HA3	2.15	0.47
1:DE:53:PHE:CD1	1:DE:72:VAL:HG22	2.50	0.47
1:DK:29:GLN:HB3	1:DK:36:ASN:HD22	1.80	0.47
1:DL:108:LEU:HA	1:DL:111:ILE:HG22	1.95	0.47
1:AH:53:PHE:CD1	1:AH:72:VAL:HG22	2.50	0.47
1:AI:110:LEU:O	1:AI:114:GLN:HG3	2.15	0.47
1:AJ:22:ILE:HG22	1:AK:7:ILE:O	2.14	0.47
1:BJ:9:THR:HG22	1:BJ:111:ILE:HD12	1.95	0.47
1:BZ:22:ILE:HG22	1:CA:7:ILE:O	2.14	0.47
1:CG:29:GLN:HB3	1:CG:36:ASN:HD22	1.80	0.47
1:DA:7:ILE:O	1:DB:22:ILE:HG22	2.14	0.47
1:DB:53:PHE:CD1	1:DB:72:VAL:HG22	2.50	0.47
1:DB:79:SER:HA	1:DB:85:THR:HG22	1.95	0.47
1:DK:53:PHE:CD1	1:DK:72:VAL:HG22	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:22:ILE:HG22	1:AN:7:ILE:O	2.14	0.47
1:AN:53:PHE:CD1	1:AN:72:VAL:HG22	2.50	0.47
1:BP:110:LEU:O	1:BP:114:GLN:HG3	2.15	0.47
1:BV:9:THR:HG22	1:BV:111:ILE:HD12	1.95	0.47
1:BX:73:VAL:HG22	1:BX:91:ARG:HE	1.80	0.47
1:CJ:53:PHE:CD1	1:CJ:72:VAL:HG22	2.50	0.47
1:CJ:87:PHE:CE2	1:DA:60:VAL:HG11	2.50	0.47
1:AC:110:LEU:O	1:AC:114:GLN:HG3	2.15	0.46
1:AE:73:VAL:HG22	1:AE:91:ARG:HE	1.81	0.46
1:AK:53:PHE:CD1	1:AK:72:VAL:HG22	2.50	0.46
1:AL:110:LEU:O	1:AL:114:GLN:HG3	2.16	0.46
1:AO:110:LEU:O	1:AO:114:GLN:HG3	2.15	0.46
1:AT:53:PHE:CD1	1:AT:72:VAL:HG22	2.50	0.46
1:AY:22:ILE:HG22	1:AZ:7:ILE:O	2.14	0.46
1:BA:110:LEU:O	1:BA:114:GLN:HG3	2.15	0.46
1:BF:29:GLN:HB3	1:BF:36:ASN:HD22	1.79	0.46
1:BF:73:VAL:HG22	1:BF:91:ARG:HE	1.81	0.46
1:BR:73:VAL:HG22	1:BR:91:ARG:HE	1.80	0.46
1:BU:48:ARG:HH12	1:DH:127:LEU:HD21	1.80	0.46
1:BW:22:ILE:HG22	1:BX:7:ILE:O	2.14	0.46
1:CA:73:VAL:HG22	1:CA:91:ARG:HE	1.81	0.46
1:CD:29:GLN:HB3	1:CD:36:ASN:HD22	1.80	0.46
1:CT:110:LEU:O	1:CT:114:GLN:HG3	2.15	0.46
1:CV:53:PHE:CD1	1:CV:72:VAL:HG22	2.50	0.46
1:DL:110:LEU:O	1:DL:114:GLN:HG3	2.15	0.46
1:AG:22:ILE:HG22	1:AH:7:ILE:O	2.14	0.46
1:AN:79:SER:HA	1:AN:85:THR:HG22	1.96	0.46
1:AU:7:ILE:HB	1:AU:114:GLN:OE1	2.16	0.46
1:BL:53:PHE:CD1	1:BL:72:VAL:HG22	2.50	0.46
1:BU:53:PHE:CD1	1:BU:72:VAL:HG22	2.50	0.46
1:BT:22:ILE:HG22	1:BU:7:ILE:O	2.14	0.46
1:BV:110:LEU:O	1:BV:114:GLN:HG3	2.15	0.46
1:BX:53:PHE:CD1	1:BX:72:VAL:HG22	2.50	0.46
1:AG:28:GLY:HA3	1:BY:128:GLY:O	2.16	0.46
1:CH:110:LEU:O	1:CH:114:GLN:HG3	2.16	0.46
1:CI:22:ILE:HG22	1:CJ:7:ILE:O	2.14	0.46
1:CP:73:VAL:HG22	1:CP:91:ARG:HE	1.80	0.46
1:CQ:110:LEU:O	1:CQ:114:GLN:HG3	2.15	0.46
1:CS:73:VAL:HG22	1:CS:91:ARG:HE	1.80	0.46
1:DD:22:ILE:HG22	1:DE:7:ILE:O	2.14	0.46
1:AK:65:TYR:HE2	1:BY:46:ARG:HA	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:73:VAL:HG22	1:AK:91:ARG:HE	1.81	0.46
1:AR:7:ILE:O	1:CK:22:ILE:HG22	2.15	0.46
1:AW:65:TYR:CE2	1:BV:46:ARG:HG2	2.50	0.46
1:AZ:29:GLN:HB3	1:AZ:36:ASN:HD22	1.79	0.46
1:BD:110:LEU:O	1:BD:114:GLN:HG3	2.15	0.46
1:BI:73:VAL:HG22	1:BI:91:ARG:HE	1.81	0.46
1:BN:22:ILE:HG22	1:BO:7:ILE:O	2.14	0.46
1:CB:110:LEU:O	1:CB:114:GLN:HG3	2.16	0.46
1:CD:53:PHE:CD1	1:CD:72:VAL:HG22	2.50	0.46
1:CD:73:VAL:HG22	1:CD:91:ARG:HE	1.81	0.46
1:CJ:33:ASN:OD1	1:DC:30:THR:OG1	2.33	0.46
1:CT:7:ILE:HB	1:CT:114:GLN:OE1	2.16	0.46
1:DH:53:PHE:CD1	1:DH:72:VAL:HG22	2.50	0.46
1:DK:73:VAL:HG22	1:DK:91:ARG:HE	1.81	0.46
1:AV:22:ILE:HG22	1:AW:7:ILE:O	2.14	0.46
1:AX:7:ILE:HB	1:AX:114:GLN:OE1	2.16	0.46
1:BA:7:ILE:HB	1:BA:114:GLN:OE1	2.16	0.46
1:BU:73:VAL:HG22	1:BU:91:ARG:HE	1.80	0.46
1:CA:53:PHE:CD1	1:CA:72:VAL:HG22	2.50	0.46
1:CM:53:PHE:CD1	1:CM:72:VAL:HG22	2.50	0.46
1:CW:7:ILE:HB	1:CW:114:GLN:OE1	2.16	0.46
1:AE:127:LEU:CD2	1:DE:48:ARG:HH12	2.27	0.46
1:DF:110:LEU:O	1:DF:114:GLN:HG3	2.16	0.46
1:DH:29:GLN:HB3	1:DH:36:ASN:HD22	1.80	0.46
1:DL:7:ILE:HB	1:DL:114:GLN:OE1	2.16	0.46
1:AK:29:GLN:HG3	1:BW:57:VAL:HG21	1.98	0.46
1:BI:53:PHE:CD1	1:BI:72:VAL:HG22	2.50	0.46
1:BO:29:GLN:HB3	1:BO:36:ASN:HD22	1.79	0.46
1:AK:65:TYR:HD2	1:BY:46:ARG:HG2	1.79	0.46
1:CQ:7:ILE:HB	1:CQ:114:GLN:OE1	2.16	0.46
1:DC:7:ILE:HB	1:DC:114:GLN:OE1	2.16	0.46
1:DE:73:VAL:HG22	1:DE:91:ARG:HE	1.81	0.46
1:DG:22:ILE:HG22	1:DH:7:ILE:O	2.14	0.46
1:BM:18:GLY:HA2	1:DI:11:ALA:HA	1.97	0.46
1:AR:110:LEU:O	1:AR:114:GLN:HG3	2.15	0.46
1:AT:73:VAL:HG22	1:AT:91:ARG:HE	1.80	0.46
1:AU:110:LEU:O	1:AU:114:GLN:HG3	2.15	0.46
1:AW:53:PHE:CD1	1:AW:72:VAL:HG22	2.50	0.46
1:AX:110:LEU:O	1:AX:114:GLN:HG3	2.15	0.46
1:BJ:7:ILE:HB	1:BJ:114:GLN:OE1	2.16	0.46
1:BM:7:ILE:HB	1:BM:114:GLN:OE1	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CB:7:ILE:HB	1:CB:114:GLN:OE1	2.16	0.46
1:CM:73:VAL:HG22	1:CM:91:ARG:HE	1.80	0.46
1:AU:125:TRP:O	1:CN:70:ASN:ND2	2.49	0.46
1:CY:73:VAL:HG22	1:CY:91:ARG:HE	1.80	0.46
1:DC:110:LEU:O	1:DC:114:GLN:HG3	2.15	0.46
1:DF:7:ILE:HB	1:DF:114:GLN:OE1	2.16	0.46
1:AW:29:GLN:HB3	1:AW:36:ASN:HD22	1.79	0.46
1:BG:7:ILE:HB	1:BG:114:GLN:OE1	2.16	0.46
1:BJ:16:ILE:HG21	1:DF:114:GLN:NE2	2.31	0.46
1:BJ:46:ARG:CA	1:BL:65:TYR:HE2	2.27	0.46
1:BM:110:LEU:O	1:BM:114:GLN:HG3	2.15	0.46
1:BS:7:ILE:HB	1:BS:114:GLN:OE1	2.16	0.46
1:CK:7:ILE:HB	1:CK:114:GLN:OE1	2.16	0.46
1:CN:110:LEU:O	1:CN:114:GLN:HG3	2.16	0.46
1:CO:22:ILE:HG22	1:CP:7:ILE:O	2.14	0.46
1:CV:73:VAL:HG22	1:CV:91:ARG:HE	1.81	0.46
1:DH:73:VAL:HG22	1:DH:91:ARG:HE	1.81	0.46
1:AO:46:ARG:HA	1:CP:65:TYR:HE2	1.80	0.46
1:AZ:73:VAL:HG22	1:AZ:91:ARG:HE	1.81	0.46
1:BI:29:GLN:HB3	1:BI:36:ASN:HD22	1.79	0.46
1:BY:110:LEU:O	1:BY:114:GLN:HG3	2.15	0.46
1:CJ:73:VAL:HG22	1:CJ:91:ARG:HE	1.81	0.46
1:CZ:7:ILE:HB	1:CZ:114:GLN:OE1	2.16	0.46
1:BG:110:LEU:O	1:BG:114:GLN:HG3	2.15	0.46
1:BJ:11:ALA:HB3	1:BJ:110:LEU:HD23	1.98	0.46
1:CE:110:LEU:O	1:CE:114:GLN:HG3	2.15	0.46
1:CH:7:ILE:HB	1:CH:114:GLN:OE1	2.16	0.46
1:AL:30:THR:OG1	1:CV:33:ASN:OD1	2.32	0.46
1:DI:7:ILE:HB	1:DI:114:GLN:OE1	2.16	0.46
1:AG:65:TYR:CE2	1:CS:46:ARG:HG3	2.50	0.46
1:BA:11:ALA:HB3	1:BA:110:LEU:HD23	1.98	0.46
1:BC:73:VAL:HG22	1:BC:91:ARG:HE	1.81	0.46
1:AF:67:LYS:NZ	1:BV:87:PHE:O	2.27	0.46
1:CB:11:ALA:HB3	1:CB:110:LEU:HD23	1.98	0.46
1:CE:7:ILE:HB	1:CE:114:GLN:OE1	2.16	0.46
1:CT:11:ALA:HB3	1:CT:110:LEU:HD23	1.98	0.46
1:AX:89:SER:HB2	1:CT:95:GLU:HB2	1.97	0.46
1:AE:48:ARG:HH22	1:BF:127:LEU:HD23	1.81	0.45
1:AI:14:ALA:HA	1:BY:16:ILE:HA	1.96	0.45
1:AQ:29:GLN:HB3	1:AQ:36:ASN:HD22	1.79	0.45
1:AW:73:VAL:HG22	1:AW:91:ARG:HE	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:65:TYR:CE2	1:BS:46:ARG:CG	2.97	0.45
1:BP:7:ILE:HB	1:BP:114:GLN:OE1	2.16	0.45
1:BS:11:ALA:HB3	1:BS:110:LEU:HD23	1.98	0.45
1:BS:110:LEU:O	1:BS:114:GLN:HG3	2.15	0.45
1:AO:114:GLN:NE2	1:CE:16:ILE:HD13	2.20	0.45
1:CG:73:VAL:HG22	1:CG:91:ARG:HE	1.80	0.45
1:CN:11:ALA:HB3	1:CN:110:LEU:HD23	1.98	0.45
1:BA:6:SER:HA	1:CW:22:ILE:O	2.16	0.45
1:AC:7:ILE:HB	1:AC:114:GLN:OE1	2.16	0.45
1:AH:73:VAL:HG22	1:AH:91:ARG:HE	1.80	0.45
1:AL:46:ARG:HG2	1:CV:65:TYR:CD2	2.51	0.45
1:AO:7:ILE:HB	1:AO:114:GLN:OE1	2.16	0.45
1:BD:7:ILE:HB	1:BD:114:GLN:OE1	2.16	0.45
1:BI:42:ASP:O	1:BI:48:ARG:HD3	2.17	0.45
1:BP:11:ALA:HB3	1:BP:110:LEU:HD23	1.98	0.45
1:CJ:42:ASP:O	1:CJ:48:ARG:HD3	2.17	0.45
1:DF:11:ALA:HB3	1:DF:110:LEU:HD23	1.98	0.45
1:BJ:114:GLN:NE2	1:DF:16:ILE:HD13	2.22	0.45
1:AL:7:ILE:HB	1:AL:114:GLN:OE1	2.16	0.45
1:AN:73:VAL:HG22	1:AN:91:ARG:HE	1.80	0.45
1:AX:87:PHE:O	1:CT:67:LYS:NZ	2.29	0.45
1:BG:111:ILE:HD13	1:DC:74:PHE:CE2	2.51	0.45
1:BM:18:GLY:CA	1:DI:11:ALA:HA	2.47	0.45
1:BY:7:ILE:HB	1:BY:114:GLN:OE1	2.16	0.45
1:CJ:29:GLN:HB3	1:CJ:36:ASN:HD22	1.79	0.45
1:CM:42:ASP:O	1:CM:48:ARG:HD3	2.17	0.45
1:AX:19:GLY:O	1:CT:8:LYS:HD2	2.16	0.45
1:CV:42:ASP:O	1:CV:48:ARG:HD3	2.17	0.45
1:CY:42:ASP:O	1:CY:48:ARG:HD3	2.17	0.45
1:DI:110:LEU:O	1:DI:114:GLN:HG3	2.16	0.45
1:AE:42:ASP:O	1:AE:48:ARG:HD3	2.17	0.45
1:AI:11:ALA:HB3	1:AI:110:LEU:HD23	1.98	0.45
1:BC:42:ASP:O	1:BC:48:ARG:HD3	2.17	0.45
1:BG:11:ALA:HB3	1:BG:110:LEU:HD23	1.98	0.45
1:BI:60:VAL:HG22	1:BI:65:TYR:CE1	2.52	0.45
1:BR:42:ASP:O	1:BR:48:ARG:HD3	2.17	0.45
1:BX:60:VAL:HG22	1:BX:65:TYR:CE1	2.52	0.45
1:CA:42:ASP:O	1:CA:48:ARG:HD3	2.17	0.45
1:CM:60:VAL:HG22	1:CM:65:TYR:CE1	2.52	0.45
1:CN:7:ILE:HB	1:CN:114:GLN:OE1	2.16	0.45
1:CS:42:ASP:O	1:CS:48:ARG:HD3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CZ:110:LEU:O	1:CZ:114:GLN:HG3	2.15	0.45
1:AF:110:LEU:O	1:AF:114:GLN:HG3	2.15	0.45
1:AH:60:VAL:HG22	1:AH:65:TYR:CE1	2.52	0.45
1:AH:65:TYR:HE2	1:CE:46:ARG:HA	1.82	0.45
1:AI:7:ILE:HB	1:AI:114:GLN:OE1	2.16	0.45
1:AR:7:ILE:HB	1:AR:114:GLN:OE1	2.16	0.45
1:AX:11:ALA:HB3	1:AX:110:LEU:HD23	1.98	0.45
1:AZ:60:VAL:HG22	1:AZ:65:TYR:CE1	2.52	0.45
1:BL:73:VAL:HG22	1:BL:91:ARG:HE	1.81	0.45
1:BO:73:VAL:HG22	1:BO:91:ARG:HE	1.80	0.45
1:CD:42:ASP:O	1:CD:48:ARG:HD3	2.17	0.45
1:CS:60:VAL:HG22	1:CS:65:TYR:CE1	2.52	0.45
1:CW:110:LEU:O	1:CW:114:GLN:HG3	2.15	0.45
1:DB:42:ASP:O	1:DB:48:ARG:HD3	2.17	0.45
1:DH:60:VAL:HG22	1:DH:65:TYR:CE1	2.52	0.45
1:AB:42:ASP:O	1:AB:48:ARG:HD3	2.17	0.45
1:AC:11:ALA:HB3	1:AC:110:LEU:HD23	1.98	0.45
1:AF:7:ILE:HB	1:AF:114:GLN:OE1	2.16	0.45
1:AN:42:ASP:O	1:AN:48:ARG:HD3	2.17	0.45
1:BL:42:ASP:O	1:BL:48:ARG:HD3	2.17	0.45
1:BV:7:ILE:HB	1:BV:114:GLN:OE1	2.16	0.45
1:AF:89:SER:HB2	1:BV:95:GLU:HB2	1.98	0.45
1:CD:60:VAL:HG22	1:CD:65:TYR:CE1	2.52	0.45
1:CK:110:LEU:O	1:CK:114:GLN:HG3	2.16	0.45
1:DK:42:ASP:O	1:DK:48:ARG:HD3	2.17	0.45
1:AK:42:ASP:O	1:AK:48:ARG:HD3	2.17	0.45
1:AL:19:GLY:O	1:CB:8:LYS:HD2	2.15	0.45
1:AQ:73:VAL:HG22	1:AQ:91:ARG:HE	1.80	0.45
1:AW:60:VAL:HG22	1:AW:65:TYR:CE1	2.52	0.45
1:AO:12:THR:OG1	1:CE:17:THR:O	2.20	0.45
1:CG:42:ASP:O	1:CG:48:ARG:HD3	2.17	0.45
1:CG:60:VAL:HG22	1:CG:65:TYR:CE1	2.52	0.45
1:CH:11:ALA:HB3	1:CH:110:LEU:HD23	1.98	0.45
1:CY:60:VAL:HG22	1:CY:65:TYR:CE1	2.52	0.45
1:DC:11:ALA:HB3	1:DC:110:LEU:HD23	1.98	0.45
1:BU:26:LEU:O	1:DH:129:ALA:HB2	2.17	0.45
1:AO:92:ILE:HG12	1:CE:92:ILE:HG12	1.98	0.45
1:AQ:42:ASP:O	1:AQ:48:ARG:HD3	2.17	0.45
1:AZ:42:ASP:O	1:AZ:48:ARG:HD3	2.17	0.45
1:BJ:110:LEU:O	1:BJ:114:GLN:HG3	2.15	0.45
1:BL:60:VAL:HG22	1:BL:65:TYR:CE1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CV:60:VAL:HG22	1:CV:65:TYR:CE1	2.52	0.45
1:CW:46:ARG:HA	1:CY:65:TYR:CE2	2.50	0.45
1:DB:60:VAL:HG22	1:DB:65:TYR:CE1	2.52	0.45
1:DK:60:VAL:HG22	1:DK:65:TYR:CE1	2.52	0.45
1:AB:60:VAL:HG22	1:AB:65:TYR:CE1	2.52	0.45
1:AI:39:VAL:HG12	1:AI:42:ASP:H	1.82	0.45
1:AK:60:VAL:HG22	1:AK:65:TYR:CE1	2.52	0.45
1:AT:42:ASP:O	1:AT:48:ARG:HD3	2.17	0.45
1:BF:60:VAL:HG22	1:BF:65:TYR:CE1	2.52	0.45
1:BO:60:VAL:HG22	1:BO:65:TYR:CE1	2.52	0.45
1:BB:130:LEU:O	1:BP:26:LEU:HB3	2.16	0.45
1:CQ:39:VAL:HG12	1:CQ:42:ASP:H	1.82	0.45
1:DC:39:VAL:HG12	1:DC:42:ASP:H	1.82	0.45
1:AB:48:ARG:HH12	1:AT:127:LEU:CD2	2.29	0.45
1:AL:11:ALA:HB3	1:AL:110:LEU:HD23	1.98	0.45
1:AP:26:LEU:HD12	1:AP:36:ASN:O	2.17	0.45
1:BD:11:ALA:HB3	1:BD:110:LEU:HD23	1.98	0.45
1:BM:13:SER:O	1:DI:16:ILE:HG13	2.16	0.45
1:BX:42:ASP:O	1:BX:48:ARG:HD3	2.17	0.45
1:BY:11:ALA:HB3	1:BY:110:LEU:HD23	1.98	0.45
1:CZ:39:VAL:HG12	1:CZ:42:ASP:H	1.82	0.45
1:DB:73:VAL:HG22	1:DB:91:ARG:HE	1.81	0.45
1:DH:42:ASP:O	1:DH:48:ARG:HD3	2.17	0.45
1:DL:39:VAL:HG12	1:DL:42:ASP:H	1.82	0.45
1:AF:11:ALA:HB3	1:AF:110:LEU:HD23	1.98	0.44
1:AJ:26:LEU:HD12	1:AJ:36:ASN:O	2.17	0.44
1:AN:60:VAL:HG22	1:AN:65:TYR:CE1	2.52	0.44
1:AT:60:VAL:HG22	1:AT:65:TYR:CE1	2.52	0.44
1:BC:60:VAL:HG22	1:BC:65:TYR:CE1	2.52	0.44
1:BQ:108:LEU:HA	1:BQ:111:ILE:HG22	2.00	0.44
1:CA:60:VAL:HG22	1:CA:65:TYR:CE1	2.52	0.44
1:CO:26:LEU:HD12	1:CO:36:ASN:O	2.18	0.44
1:AC:39:VAL:HG12	1:AC:42:ASP:H	1.82	0.44
1:AG:26:LEU:HD12	1:AG:36:ASN:O	2.17	0.44
1:AH:42:ASP:O	1:AH:48:ARG:HD3	2.17	0.44
1:AR:11:ALA:HB3	1:AR:110:LEU:HD23	1.98	0.44
1:AU:11:ALA:HB3	1:AU:110:LEU:HD23	1.99	0.44
1:BM:116:LEU:O	1:DI:109:ARG:CZ	2.65	0.44
1:BO:42:ASP:O	1:BO:48:ARG:HD3	2.17	0.44
1:BS:39:VAL:HG12	1:BS:42:ASP:H	1.83	0.44
1:BU:42:ASP:O	1:BU:48:ARG:HD3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BY:39:VAL:HG12	1:BY:42:ASP:H	1.82	0.44
1:BZ:108:LEU:HA	1:BZ:111:ILE:HG22	2.00	0.44
1:CH:39:VAL:HG12	1:CH:42:ASP:H	1.82	0.44
1:CJ:60:VAL:HG22	1:CJ:65:TYR:CE1	2.52	0.44
1:CD:58:PRO:HD2	1:CK:45:TYR:CZ	2.52	0.44
1:CX:26:LEU:HD12	1:CX:36:ASN:O	2.18	0.44
1:DA:108:LEU:HA	1:DA:111:ILE:HG22	1.99	0.44
1:DE:42:ASP:O	1:DE:48:ARG:HD3	2.17	0.44
1:DI:11:ALA:HB3	1:DI:110:LEU:HD23	1.98	0.44
1:BM:16:ILE:HA	1:DI:14:ALA:HA	1.99	0.44
1:DJ:108:LEU:HA	1:DJ:111:ILE:HG22	2.00	0.44
1:AA:108:LEU:HA	1:AA:111:ILE:HG22	2.00	0.44
1:AB:73:VAL:HG22	1:AB:91:ARG:HE	1.80	0.44
1:AO:39:VAL:HG12	1:AO:42:ASP:H	1.82	0.44
1:AQ:60:VAL:HG22	1:AQ:65:TYR:CE1	2.52	0.44
1:AR:39:VAL:HG12	1:AR:42:ASP:H	1.82	0.44
1:AS:108:LEU:HA	1:AS:111:ILE:HG22	2.00	0.44
1:AS:26:LEU:HD12	1:AS:36:ASN:O	2.17	0.44
1:BF:42:ASP:O	1:BF:48:ARG:HD3	2.17	0.44
1:BR:60:VAL:HG22	1:BR:65:TYR:CE1	2.52	0.44
1:CE:11:ALA:HB3	1:CE:110:LEU:HD23	1.98	0.44
1:CJ:68:GLY:O	1:CJ:95:GLU:HA	2.18	0.44
1:CO:108:LEU:HA	1:CO:111:ILE:HG22	1.99	0.44
1:AB:87:PHE:CZ	1:AS:60:VAL:HG11	2.51	0.44
1:AE:68:GLY:O	1:AE:95:GLU:HA	2.18	0.44
1:AG:108:LEU:HA	1:AG:111:ILE:HG22	1.99	0.44
1:AL:114:GLN:NE2	1:CB:16:ILE:HG21	2.33	0.44
1:AO:11:ALA:HB3	1:AO:110:LEU:HD23	1.98	0.44
1:AV:108:LEU:HA	1:AV:111:ILE:HG22	2.00	0.44
1:AY:26:LEU:HD12	1:AY:36:ASN:O	2.18	0.44
1:BD:39:VAL:HG12	1:BD:42:ASP:H	1.82	0.44
1:BF:68:GLY:O	1:BF:95:GLU:HA	2.18	0.44
1:BN:108:LEU:HA	1:BN:111:ILE:HG22	2.00	0.44
1:BZ:26:LEU:HD12	1:BZ:36:ASN:O	2.18	0.44
1:CK:11:ALA:HB3	1:CK:110:LEU:HD23	1.98	0.44
1:AR:125:TRP:O	1:CK:70:ASN:ND2	2.51	0.44
1:CL:108:LEU:HA	1:CL:111:ILE:HG22	2.00	0.44
1:CL:35:LEU:HD22	1:CM:131:ALA:H	1.83	0.44
1:CP:42:ASP:O	1:CP:48:ARG:HD3	2.17	0.44
1:CW:11:ALA:HB3	1:CW:110:LEU:HD23	1.98	0.44
1:DD:26:LEU:HD12	1:DD:36:ASN:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DJ:35:LEU:HD22	1:DK:131:ALA:H	1.83	0.44
1:BO:65:TYR:CD2	1:DL:46:ARG:HG2	2.52	0.44
1:AC:14:ALA:HB2	1:BP:16:ILE:HD12	1.98	0.44
1:AP:108:LEU:HA	1:AP:111:ILE:HG22	1.99	0.44
1:AV:26:LEU:HD12	1:AV:36:ASN:O	2.18	0.44
1:AW:42:ASP:O	1:AW:48:ARG:HD3	2.17	0.44
1:AX:39:VAL:HG12	1:AX:42:ASP:H	1.82	0.44
1:BD:74:PHE:CZ	1:CZ:111:ILE:HD13	2.52	0.44
1:BK:87:PHE:O	1:BL:67:LYS:NZ	2.41	0.44
1:BL:58:PRO:HB3	1:BL:66:SER:O	2.18	0.44
1:BP:39:VAL:HG12	1:BP:42:ASP:H	1.82	0.44
1:BU:60:VAL:HG22	1:BU:65:TYR:CE1	2.52	0.44
1:BZ:35:LEU:HD22	1:CA:131:ALA:H	1.83	0.44
1:CC:26:LEU:HD12	1:CC:36:ASN:O	2.17	0.44
1:CF:108:LEU:HA	1:CF:111:ILE:HG22	2.00	0.44
1:CF:35:LEU:HD22	1:CG:131:ALA:H	1.83	0.44
1:CG:68:GLY:O	1:CG:95:GLU:HA	2.18	0.44
1:CI:108:LEU:HA	1:CI:111:ILE:HG22	1.99	0.44
1:AF:48:ARG:NH1	1:DD:127:LEU:HD22	2.32	0.44
1:DI:39:VAL:HG12	1:DI:42:ASP:H	1.82	0.44
1:AD:26:LEU:HD12	1:AD:36:ASN:O	2.17	0.44
1:AG:35:LEU:HD22	1:AH:131:ALA:H	1.83	0.44
1:AM:26:LEU:HD12	1:AM:36:ASN:O	2.17	0.44
1:AS:35:LEU:HD22	1:AT:131:ALA:H	1.83	0.44
1:AT:67:LYS:HD3	1:AT:95:GLU:HB3	2.00	0.44
1:AU:39:VAL:HG12	1:AU:42:ASP:H	1.82	0.44
1:AZ:67:LYS:HD3	1:AZ:95:GLU:HB3	2.00	0.44
1:BK:26:LEU:HD12	1:BK:36:ASN:O	2.17	0.44
1:BL:68:GLY:O	1:BL:95:GLU:HA	2.18	0.44
1:BT:35:LEU:HD22	1:BU:131:ALA:H	1.83	0.44
1:BU:68:GLY:O	1:BU:95:GLU:HA	2.18	0.44
1:BV:11:ALA:HB3	1:BV:110:LEU:HD23	1.98	0.44
1:CF:26:LEU:HD12	1:CF:36:ASN:O	2.17	0.44
1:CN:39:VAL:HG12	1:CN:42:ASP:H	1.82	0.44
1:CW:39:VAL:HG12	1:CW:42:ASP:H	1.82	0.44
1:CZ:11:ALA:HB3	1:CZ:110:LEU:HD23	1.98	0.44
1:DA:26:LEU:HD12	1:DA:36:ASN:O	2.18	0.44
1:DD:35:LEU:HD22	1:DE:131:ALA:H	1.83	0.44
1:DE:60:VAL:HG22	1:DE:65:TYR:CE1	2.52	0.44
1:DE:68:GLY:O	1:DE:95:GLU:HA	2.18	0.44
1:AA:35:LEU:HD22	1:AB:131:ALA:H	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:68:GLY:O	1:AK:95:GLU:HA	2.18	0.44
1:AL:39:VAL:HG12	1:AL:42:ASP:H	1.82	0.44
1:AT:68:GLY:O	1:AT:95:GLU:HA	2.18	0.44
1:BC:98:PRO:HB2	1:BP:46:ARG:HG3	2.00	0.44
1:BJ:22:ILE:HG22	1:DF:7:ILE:O	2.17	0.44
1:BO:58:PRO:HB3	1:BO:66:SER:O	2.18	0.44
1:BQ:26:LEU:HD12	1:BQ:36:ASN:O	2.17	0.44
1:CA:58:PRO:HB3	1:CA:66:SER:O	2.18	0.44
1:CB:39:VAL:HG12	1:CB:42:ASP:H	1.82	0.44
1:CD:58:PRO:HB3	1:CD:66:SER:O	2.18	0.44
1:CL:26:LEU:HD12	1:CL:36:ASN:O	2.17	0.44
1:BX:58:PRO:HB2	1:CN:45:TYR:CE2	2.53	0.44
1:CR:108:LEU:HA	1:CR:111:ILE:HG22	2.00	0.44
1:CR:35:LEU:HD22	1:CS:131:ALA:H	1.83	0.44
1:CS:67:LYS:HD3	1:CS:95:GLU:HB3	2.00	0.44
1:CS:68:GLY:O	1:CS:95:GLU:HA	2.18	0.44
1:CT:39:VAL:HG12	1:CT:42:ASP:H	1.82	0.44
1:CT:30:THR:OG1	1:DB:33:ASN:OD1	2.33	0.44
1:BG:111:ILE:CD1	1:DC:74:PHE:CZ	2.99	0.44
1:AE:60:VAL:HG22	1:AE:65:TYR:CE1	2.52	0.44
1:AN:68:GLY:O	1:AN:95:GLU:HA	2.18	0.44
1:AW:67:LYS:HD3	1:AW:95:GLU:HB3	2.00	0.44
1:BE:108:LEU:HA	1:BE:111:ILE:HG22	2.00	0.44
1:BG:22:ILE:HG22	1:DC:7:ILE:O	2.18	0.44
1:BI:68:GLY:O	1:BI:95:GLU:HA	2.18	0.44
1:BM:11:ALA:HB3	1:BM:110:LEU:HD23	1.98	0.44
1:BT:108:LEU:HA	1:BT:111:ILE:HG22	2.00	0.44
1:BT:26:LEU:HD12	1:BT:36:ASN:O	2.17	0.44
1:BX:67:LYS:HD3	1:BX:95:GLU:HB3	2.00	0.44
1:CG:58:PRO:HB3	1:CG:66:SER:O	2.18	0.44
1:CK:39:VAL:HG12	1:CK:42:ASP:H	1.82	0.44
1:CM:58:PRO:HB3	1:CM:66:SER:O	2.18	0.44
1:AU:18:GLY:HA2	1:CN:12:THR:H	1.83	0.44
1:CP:60:VAL:HG22	1:CP:65:TYR:CE1	2.52	0.44
1:CR:26:LEU:HD12	1:CR:36:ASN:O	2.18	0.44
1:CV:67:LYS:HD3	1:CV:95:GLU:HB3	2.00	0.44
1:CV:68:GLY:O	1:CV:95:GLU:HA	2.18	0.44
1:DH:58:PRO:HB3	1:DH:66:SER:O	2.18	0.44
1:AA:26:LEU:HD12	1:AA:36:ASN:O	2.17	0.44
1:AO:46:ARG:HG2	1:CP:65:TYR:HD2	1.82	0.44
1:AW:58:PRO:HB3	1:AW:66:SER:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BI:58:PRO:HB3	1:BI:66:SER:O	2.18	0.44
1:BJ:39:VAL:HG12	1:BJ:42:ASP:H	1.83	0.44
1:BN:26:LEU:HD12	1:BN:36:ASN:O	2.18	0.44
1:BR:58:PRO:HB3	1:BR:66:SER:O	2.18	0.44
1:BW:26:LEU:HD12	1:BW:36:ASN:O	2.17	0.44
1:AN:26:LEU:O	1:CA:129:ALA:HB2	2.17	0.44
1:CA:67:LYS:HD3	1:CA:95:GLU:HB3	2.00	0.44
1:CC:108:LEU:HA	1:CC:111:ILE:HG22	2.00	0.44
1:CI:26:LEU:HD12	1:CI:36:ASN:O	2.18	0.44
1:CJ:58:PRO:HB3	1:CJ:66:SER:O	2.18	0.44
1:CS:58:PRO:HB3	1:CS:66:SER:O	2.18	0.44
1:BD:130:LEU:HD21	1:CZ:55:SER:HB3	1.99	0.44
1:DJ:26:LEU:HD12	1:DJ:36:ASN:O	2.18	0.44
1:AH:58:PRO:HB3	1:AH:66:SER:O	2.18	0.43
1:AK:58:PRO:HB3	1:AK:66:SER:O	2.18	0.43
1:AW:68:GLY:O	1:AW:95:GLU:HA	2.18	0.43
1:AZ:68:GLY:O	1:AZ:95:GLU:HA	2.18	0.43
1:BG:39:VAL:HG12	1:BG:42:ASP:H	1.82	0.43
1:BX:58:PRO:HB3	1:BX:66:SER:O	2.18	0.43
1:CO:35:LEU:HD22	1:CP:131:ALA:H	1.83	0.43
1:CY:58:PRO:HB3	1:CY:66:SER:O	2.18	0.43
1:DB:67:LYS:HD3	1:DB:95:GLU:HB3	2.00	0.43
1:DK:58:PRO:HB3	1:DK:66:SER:O	2.18	0.43
1:AA:99:ALA:HA	1:DH:46:ARG:NH2	2.33	0.43
1:AD:108:LEU:HA	1:AD:111:ILE:HG22	2.00	0.43
1:AD:35:LEU:HD22	1:AE:131:ALA:H	1.83	0.43
1:AD:60:VAL:HG11	1:DE:87:PHE:HE2	1.82	0.43
1:AF:39:VAL:HG12	1:AF:42:ASP:H	1.82	0.43
1:AN:58:PRO:HB3	1:AN:66:SER:O	2.18	0.43
1:AQ:58:PRO:HB3	1:AQ:66:SER:O	2.18	0.43
1:BB:108:LEU:HA	1:BB:111:ILE:HG22	2.00	0.43
1:BJ:16:ILE:HD13	1:DF:114:GLN:NE2	2.20	0.43
1:BM:129:ALA:HB1	1:DG:26:LEU:HB3	2.00	0.43
1:BR:68:GLY:O	1:BR:95:GLU:HA	2.18	0.43
1:BW:108:LEU:HA	1:BW:111:ILE:HG22	2.00	0.43
1:CA:58:PRO:HD2	1:CH:45:TYR:CE2	2.54	0.43
1:CQ:11:ALA:HB3	1:CQ:110:LEU:HD23	1.98	0.43
1:CU:35:LEU:HD22	1:CV:131:ALA:H	1.83	0.43
1:CU:26:LEU:HD12	1:CU:36:ASN:O	2.17	0.43
1:DB:68:GLY:O	1:DB:95:GLU:HA	2.18	0.43
1:DG:26:LEU:HD12	1:DG:36:ASN:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DL:11:ALA:HB3	1:DL:110:LEU:HD23	1.98	0.43
1:AJ:35:LEU:HD22	1:AK:131:ALA:H	1.83	0.43
1:AO:16:ILE:HD13	1:CE:114:GLN:NE2	2.18	0.43
1:BE:26:LEU:HD12	1:BE:36:ASN:O	2.18	0.43
1:BH:26:LEU:HD12	1:BH:36:ASN:O	2.17	0.43
1:BK:35:LEU:HD22	1:BL:131:ALA:H	1.83	0.43
1:BM:109:ARG:O	1:DI:116:LEU:HD13	2.18	0.43
1:BQ:35:LEU:HD22	1:BR:131:ALA:H	1.83	0.43
1:CC:111:ILE:O	1:CC:115:LEU:HG	2.19	0.43
1:CN:7:ILE:HD12	1:CN:111:ILE:HG13	2.01	0.43
1:CP:68:GLY:O	1:CP:95:GLU:HA	2.18	0.43
1:CT:7:ILE:HD12	1:CT:111:ILE:HG13	2.01	0.43
1:CX:35:LEU:HD22	1:CY:131:ALA:H	1.83	0.43
1:DB:58:PRO:HB3	1:DB:66:SER:O	2.18	0.43
1:DH:68:GLY:O	1:DH:95:GLU:HA	2.18	0.43
1:AC:16:ILE:HD13	1:BP:114:GLN:NE2	2.21	0.43
1:AJ:108:LEU:HA	1:AJ:111:ILE:HG22	2.00	0.43
1:AM:53:PHE:CD1	1:AM:72:VAL:HG22	2.54	0.43
1:BA:39:VAL:HG12	1:BA:42:ASP:H	1.82	0.43
1:BE:53:PHE:CD1	1:BE:72:VAL:HG22	2.54	0.43
1:BH:111:ILE:O	1:BH:115:LEU:HG	2.19	0.43
1:BI:67:LYS:HD3	1:BI:95:GLU:HB3	2.00	0.43
1:BK:108:LEU:HA	1:BK:111:ILE:HG22	2.00	0.43
1:BO:65:TYR:HE2	1:DL:46:ARG:HA	1.83	0.43
1:BU:58:PRO:HB3	1:BU:66:SER:O	2.18	0.43
1:BU:67:LYS:HD3	1:BU:95:GLU:HB3	2.00	0.43
1:CM:68:GLY:O	1:CM:95:GLU:HA	2.18	0.43
1:CP:67:LYS:HD3	1:CP:95:GLU:HB3	2.00	0.43
1:DD:111:ILE:O	1:DD:115:LEU:HG	2.19	0.43
1:DG:108:LEU:HA	1:DG:111:ILE:HG22	1.99	0.43
1:DG:53:PHE:CD1	1:DG:72:VAL:HG22	2.54	0.43
1:BM:90:VAL:CG1	1:DI:108:LEU:HD22	2.48	0.43
1:AF:48:ARG:HH12	1:DD:127:LEU:CB	2.31	0.43
1:AV:53:PHE:CD1	1:AV:72:VAL:HG22	2.54	0.43
1:AY:53:PHE:CD1	1:AY:72:VAL:HG22	2.54	0.43
1:BB:35:LEU:HD22	1:BC:131:ALA:H	1.83	0.43
1:BC:58:PRO:HB3	1:BC:66:SER:O	2.18	0.43
1:BC:67:LYS:HD3	1:BC:95:GLU:HB3	2.00	0.43
1:BC:68:GLY:O	1:BC:95:GLU:HA	2.18	0.43
1:BD:7:ILE:HD12	1:BD:111:ILE:HG13	2.01	0.43
1:BF:67:LYS:HD3	1:BF:95:GLU:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BS:7:ILE:HD12	1:BS:111:ILE:HG13	2.01	0.43
1:BV:39:VAL:HG12	1:BV:42:ASP:H	1.82	0.43
1:BX:68:GLY:O	1:BX:95:GLU:HA	2.18	0.43
1:CA:68:GLY:O	1:CA:95:GLU:HA	2.18	0.43
1:CP:58:PRO:HB3	1:CP:66:SER:O	2.18	0.43
1:CU:111:ILE:O	1:CU:115:LEU:HG	2.19	0.43
1:CY:68:GLY:O	1:CY:95:GLU:HA	2.18	0.43
1:DE:58:PRO:HB3	1:DE:66:SER:O	2.18	0.43
1:DH:67:LYS:HD3	1:DH:95:GLU:HB3	2.00	0.43
1:AB:68:GLY:O	1:AB:95:GLU:HA	2.18	0.43
1:AK:67:LYS:HD3	1:AK:95:GLU:HB3	2.00	0.43
1:AY:111:ILE:O	1:AY:115:LEU:HG	2.19	0.43
1:BB:53:PHE:CD1	1:BB:72:VAL:HG22	2.54	0.43
1:BK:53:PHE:CD1	1:BK:72:VAL:HG22	2.54	0.43
1:BL:67:LYS:HD3	1:BL:95:GLU:HB3	2.00	0.43
1:BW:35:LEU:HD22	1:BX:131:ALA:H	1.83	0.43
1:CE:7:ILE:HD12	1:CE:111:ILE:HG13	2.01	0.43
1:CG:67:LYS:HD3	1:CG:95:GLU:HB3	2.00	0.43
1:CK:7:ILE:HD12	1:CK:111:ILE:HG13	2.01	0.43
1:DA:53:PHE:CD1	1:DA:72:VAL:HG22	2.54	0.43
1:BM:124:PHE:CE2	1:DI:70:ASN:HB3	2.53	0.43
1:DI:7:ILE:HD12	1:DI:111:ILE:HG13	2.01	0.43
1:AM:111:ILE:O	1:AM:115:LEU:HG	2.19	0.43
1:AM:35:LEU:HD22	1:AN:131:ALA:H	1.83	0.43
1:AP:53:PHE:CD1	1:AP:72:VAL:HG22	2.54	0.43
1:AQ:68:GLY:O	1:AQ:95:GLU:HA	2.18	0.43
1:BE:111:ILE:O	1:BE:115:LEU:HG	2.19	0.43
1:BF:58:PRO:HB3	1:BF:66:SER:O	2.18	0.43
1:BH:108:LEU:HA	1:BH:111:ILE:HG22	2.00	0.43
1:BJ:7:ILE:HD12	1:BJ:111:ILE:HG13	2.01	0.43
1:BK:111:ILE:O	1:BK:115:LEU:HG	2.19	0.43
1:BM:122:ASP:OD1	1:DI:109:ARG:NH1	2.40	0.43
1:BM:39:VAL:HG12	1:BM:42:ASP:H	1.82	0.43
1:BM:92:ILE:HG12	1:DI:92:ILE:HG12	2.00	0.43
1:BN:53:PHE:CD1	1:BN:72:VAL:HG22	2.54	0.43
1:AC:22:ILE:HG22	1:BP:7:ILE:O	2.18	0.43
1:BR:67:LYS:HD3	1:BR:95:GLU:HB3	2.00	0.43
1:BT:111:ILE:O	1:BT:115:LEU:HG	2.19	0.43
1:BZ:111:ILE:O	1:BZ:115:LEU:HG	2.19	0.43
1:CB:7:ILE:HD12	1:CB:111:ILE:HG13	2.01	0.43
1:AO:18:GLY:HA2	1:CE:12:THR:H	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CH:7:ILE:HD12	1:CH:111:ILE:HG13	2.01	0.43
1:CX:108:LEU:HA	1:CX:111:ILE:HG22	2.00	0.43
1:DG:111:ILE:O	1:DG:115:LEU:HG	2.19	0.43
1:DJ:111:ILE:O	1:DJ:115:LEU:HG	2.19	0.43
1:AD:111:ILE:O	1:AD:115:LEU:HG	2.19	0.43
1:AH:67:LYS:HD3	1:AH:95:GLU:HB3	2.00	0.43
1:AH:68:GLY:O	1:AH:95:GLU:HA	2.18	0.43
1:AJ:111:ILE:O	1:AJ:115:LEU:HG	2.19	0.43
1:AQ:67:LYS:HD3	1:AQ:95:GLU:HB3	2.00	0.43
1:AT:58:PRO:HB3	1:AT:66:SER:O	2.18	0.43
1:AV:35:LEU:HD22	1:AW:131:ALA:H	1.83	0.43
1:AW:51:ALA:HA	1:AW:73:VAL:O	2.19	0.43
1:BO:67:LYS:HD3	1:BO:95:GLU:HB3	2.00	0.43
1:BT:53:PHE:CD1	1:BT:72:VAL:HG22	2.54	0.43
1:BV:7:ILE:HD12	1:BV:111:ILE:HG13	2.01	0.43
1:BZ:53:PHE:CD1	1:BZ:72:VAL:HG22	2.54	0.43
1:CV:58:PRO:HB3	1:CV:66:SER:O	2.18	0.43
1:BA:114:GLN:NE2	1:CW:16:ILE:HG21	2.34	0.43
1:CW:7:ILE:HD12	1:CW:111:ILE:HG13	2.01	0.43
1:CX:53:PHE:CD1	1:CX:72:VAL:HG22	2.54	0.43
1:DK:68:GLY:O	1:DK:95:GLU:HA	2.18	0.43
1:AA:111:ILE:O	1:AA:115:LEU:HG	2.19	0.43
1:AB:58:PRO:HB3	1:AB:66:SER:O	2.18	0.43
1:AB:67:LYS:HD3	1:AB:95:GLU:HB3	2.00	0.43
1:AE:58:PRO:HB3	1:AE:66:SER:O	2.18	0.43
1:AE:51:ALA:HA	1:AE:73:VAL:O	2.19	0.43
1:AI:17:THR:O	1:BY:12:THR:OG1	2.25	0.43
1:AN:67:LYS:HD3	1:AN:95:GLU:HB3	2.00	0.43
1:AP:35:LEU:HD22	1:AQ:131:ALA:H	1.83	0.43
1:AS:53:PHE:CD1	1:AS:72:VAL:HG22	2.54	0.43
1:AU:19:GLY:H	1:CN:11:ALA:HA	1.84	0.43
1:AY:108:LEU:HA	1:AY:111:ILE:HG22	2.00	0.43
1:AZ:58:PRO:HB3	1:AZ:66:SER:O	2.18	0.43
1:BB:26:LEU:HD12	1:BB:36:ASN:O	2.18	0.43
1:BD:14:ALA:HB2	1:CZ:16:ILE:HD12	2.01	0.43
1:BE:35:LEU:HD22	1:BF:131:ALA:H	1.83	0.43
1:BG:7:ILE:HD12	1:BG:111:ILE:HG13	2.01	0.43
1:BO:68:GLY:O	1:BO:95:GLU:HA	2.18	0.43
1:BQ:53:PHE:CD1	1:BQ:72:VAL:HG22	2.54	0.43
1:CD:68:GLY:O	1:CD:95:GLU:HA	2.18	0.43
1:CL:53:PHE:CD1	1:CL:72:VAL:HG22	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CQ:7:ILE:HD12	1:CQ:111:ILE:HG13	2.01	0.43
1:CR:111:ILE:O	1:CR:115:LEU:HG	2.19	0.43
1:CU:53:PHE:CD1	1:CU:72:VAL:HG22	2.54	0.43
1:BA:19:GLY:O	1:CW:8:LYS:HD2	2.19	0.43
1:DA:111:ILE:O	1:DA:115:LEU:HG	2.19	0.43
1:DA:35:LEU:HD22	1:DB:131:ALA:H	1.83	0.43
1:DE:67:LYS:HD3	1:DE:95:GLU:HB3	2.00	0.43
1:AA:53:PHE:CD1	1:AA:72:VAL:HG22	2.54	0.43
1:AD:53:PHE:CD1	1:AD:72:VAL:HG22	2.54	0.43
1:AR:53:PHE:CD1	1:AR:72:VAL:HG22	2.54	0.43
1:BF:48:ARG:HH22	1:BR:127:LEU:HD23	1.83	0.43
1:BH:53:PHE:CD1	1:BH:72:VAL:HG22	2.54	0.43
1:BK:26:LEU:HB3	1:DI:129:ALA:HB1	2.01	0.43
1:BL:51:ALA:HA	1:BL:73:VAL:O	2.19	0.43
1:BN:35:LEU:HD22	1:BO:131:ALA:H	1.83	0.43
1:BP:7:ILE:HD12	1:BP:111:ILE:HG13	2.01	0.43
1:BX:51:ALA:HA	1:BX:73:VAL:O	2.19	0.43
1:AI:100:LEU:HD13	1:BY:88:ASN:ND2	2.34	0.43
1:CA:51:ALA:HA	1:CA:73:VAL:O	2.19	0.43
1:AH:45:TYR:HD2	1:CC:98:PRO:HB3	1.84	0.43
1:CC:35:LEU:HD22	1:CD:131:ALA:H	1.83	0.43
1:AM:28:GLY:HA3	1:CE:128:GLY:O	2.19	0.43
1:AM:26:LEU:O	1:CE:129:ALA:HB2	2.19	0.43
1:CE:39:VAL:HG12	1:CE:42:ASP:H	1.82	0.43
1:CG:51:ALA:HA	1:CG:73:VAL:O	2.19	0.43
1:CJ:67:LYS:HD3	1:CJ:95:GLU:HB3	2.00	0.43
1:CK:53:PHE:CD1	1:CK:72:VAL:HG22	2.54	0.43
1:CY:67:LYS:HD3	1:CY:95:GLU:HB3	2.00	0.43
1:DG:35:LEU:HD22	1:DH:131:ALA:H	1.83	0.43
1:AE:67:LYS:HD3	1:AE:95:GLU:HB3	2.00	0.42
1:AF:7:ILE:O	1:BV:22:ILE:HG22	2.18	0.42
1:AG:53:PHE:CD1	1:AG:72:VAL:HG22	2.54	0.42
1:AI:53:PHE:CD1	1:AI:72:VAL:HG22	2.54	0.42
1:AI:7:ILE:HD12	1:AI:111:ILE:HG13	2.01	0.42
1:AJ:53:PHE:CD1	1:AJ:72:VAL:HG22	2.54	0.42
1:AL:8:LYS:HD2	1:CB:19:GLY:O	2.19	0.42
1:AP:111:ILE:O	1:AP:115:LEU:HG	2.19	0.42
1:BB:111:ILE:O	1:BB:115:LEU:HG	2.19	0.42
1:CD:67:LYS:HD3	1:CD:95:GLU:HB3	2.00	0.42
1:CH:53:PHE:CD1	1:CH:72:VAL:HG22	2.54	0.42
1:CI:111:ILE:O	1:CI:115:LEU:HG	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CI:35:LEU:HD22	1:CJ:131:ALA:H	1.83	0.42
1:CU:108:LEU:HA	1:CU:111:ILE:HG22	2.00	0.42
1:CV:51:ALA:HA	1:CV:73:VAL:O	2.19	0.42
1:CZ:53:PHE:CD1	1:CZ:72:VAL:HG22	2.54	0.42
1:DJ:53:PHE:CD1	1:DJ:72:VAL:HG22	2.54	0.42
1:AC:7:ILE:HD12	1:AC:111:ILE:HG13	2.01	0.42
1:AF:53:PHE:CD1	1:AF:72:VAL:HG22	2.54	0.42
1:AK:51:ALA:HA	1:AK:73:VAL:O	2.19	0.42
1:AN:51:ALA:HA	1:AN:73:VAL:O	2.19	0.42
1:AT:51:ALA:HA	1:AT:73:VAL:O	2.19	0.42
1:AV:111:ILE:O	1:AV:115:LEU:HG	2.19	0.42
1:BG:130:LEU:HD21	1:DC:55:SER:HB3	2.01	0.42
1:BQ:111:ILE:O	1:BQ:115:LEU:HG	2.19	0.42
1:AK:48:ARG:HH22	1:BX:127:LEU:HD23	1.84	0.42
1:CC:53:PHE:CD1	1:CC:72:VAL:HG22	2.54	0.42
1:CM:67:LYS:HD3	1:CM:95:GLU:HB3	2.00	0.42
1:CT:46:ARG:HA	1:DB:65:TYR:HE2	1.84	0.42
1:DD:108:LEU:HA	1:DD:111:ILE:HG22	2.00	0.42
1:DF:39:VAL:HG12	1:DF:42:ASP:H	1.82	0.42
1:BJ:111:ILE:HD13	1:DF:74:PHE:CZ	2.54	0.42
1:DF:7:ILE:HD12	1:DF:111:ILE:HG13	2.01	0.42
1:DK:67:LYS:HD3	1:DK:95:GLU:HB3	2.00	0.42
1:AC:53:PHE:CD1	1:AC:72:VAL:HG22	2.54	0.42
1:AH:51:ALA:HA	1:AH:73:VAL:O	2.19	0.42
1:AZ:51:ALA:HA	1:AZ:73:VAL:O	2.19	0.42
1:BA:7:ILE:HD12	1:BA:111:ILE:HG13	2.01	0.42
1:BD:53:PHE:CD1	1:BD:72:VAL:HG22	2.54	0.42
1:BG:53:PHE:CD1	1:BG:72:VAL:HG22	2.54	0.42
1:BP:53:PHE:CD1	1:BP:72:VAL:HG22	2.54	0.42
1:BW:53:PHE:CD1	1:BW:72:VAL:HG22	2.54	0.42
1:AI:114:GLN:NE2	1:BY:16:ILE:HG21	2.34	0.42
1:AK:65:TYR:CE2	1:BY:46:ARG:HG2	2.54	0.42
1:CM:51:ALA:HA	1:CM:73:VAL:O	2.19	0.42
1:CO:111:ILE:O	1:CO:115:LEU:HG	2.19	0.42
1:DD:53:PHE:CD1	1:DD:72:VAL:HG22	2.54	0.42
1:DI:53:PHE:CD1	1:DI:72:VAL:HG22	2.55	0.42
1:BH:35:LEU:HD22	1:BI:131:ALA:H	1.83	0.42
1:AC:125:TRP:HZ3	1:BP:70:ASN:O	2.03	0.42
1:CI:53:PHE:CD1	1:CI:72:VAL:HG22	2.54	0.42
1:CN:53:PHE:CD1	1:CN:72:VAL:HG22	2.54	0.42
1:DL:53:PHE:CD1	1:DL:72:VAL:HG22	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:108:LEU:HA	1:AM:111:ILE:HG22	2.00	0.42
1:BN:111:ILE:O	1:BN:115:LEU:HG	2.19	0.42
1:CF:53:PHE:CD1	1:CF:72:VAL:HG22	2.54	0.42
1:CJ:51:ALA:HA	1:CJ:73:VAL:O	2.19	0.42
1:CL:111:ILE:O	1:CL:115:LEU:HG	2.19	0.42
1:CS:74:PHE:HB3	1:CS:90:VAL:HG13	2.02	0.42
1:CW:53:PHE:CD1	1:CW:72:VAL:HG22	2.55	0.42
1:AC:46:ARG:HG2	1:DH:65:TYR:CD2	2.54	0.42
1:DK:51:ALA:HA	1:DK:73:VAL:O	2.19	0.42
1:AB:74:PHE:HB3	1:AB:90:VAL:HG13	2.02	0.42
1:AR:7:ILE:HD12	1:AR:111:ILE:HG13	2.01	0.42
1:AU:16:ILE:HD12	1:CN:14:ALA:HB2	2.01	0.42
1:AY:35:LEU:HD22	1:AZ:131:ALA:H	1.83	0.42
1:BI:51:ALA:HA	1:BI:73:VAL:O	2.19	0.42
1:BI:74:PHE:HB3	1:BI:90:VAL:HG13	2.02	0.42
1:BR:51:ALA:HA	1:BR:73:VAL:O	2.19	0.42
1:BU:33:ASN:OD1	1:DI:30:THR:OG1	2.36	0.42
1:BW:111:ILE:O	1:BW:115:LEU:HG	2.19	0.42
1:CR:53:PHE:CD1	1:CR:72:VAL:HG22	2.54	0.42
1:DF:53:PHE:CD1	1:DF:72:VAL:HG22	2.54	0.42
1:DH:51:ALA:HA	1:DH:73:VAL:O	2.19	0.42
1:AF:7:ILE:HD12	1:AF:111:ILE:HG13	2.01	0.42
1:AI:16:ILE:HA	1:BY:14:ALA:HA	2.02	0.42
1:AQ:51:ALA:HA	1:AQ:73:VAL:O	2.19	0.42
1:AT:74:PHE:HB3	1:AT:90:VAL:HG13	2.02	0.42
1:BA:53:PHE:CD1	1:BA:72:VAL:HG22	2.54	0.42
1:BF:51:ALA:HA	1:BF:73:VAL:O	2.19	0.42
1:BE:130:LEU:O	1:BS:26:LEU:HB3	2.19	0.42
1:BS:53:PHE:CD1	1:BS:72:VAL:HG22	2.54	0.42
1:BU:51:ALA:HA	1:BU:73:VAL:O	2.19	0.42
1:CD:51:ALA:HA	1:CD:73:VAL:O	2.19	0.42
1:AU:114:GLN:NE2	1:CN:16:ILE:HD13	2.23	0.42
1:CT:53:PHE:CD1	1:CT:72:VAL:HG22	2.54	0.42
1:CX:111:ILE:O	1:CX:115:LEU:HG	2.19	0.42
1:AL:7:ILE:HD12	1:AL:111:ILE:HG13	2.01	0.42
1:AO:53:PHE:CD1	1:AO:72:VAL:HG22	2.55	0.42
1:AS:111:ILE:O	1:AS:115:LEU:HG	2.19	0.42
1:AB:46:ARG:HA	1:AS:65:TYR:CE2	2.54	0.42
1:AX:7:ILE:HD12	1:AX:111:ILE:HG13	2.01	0.42
1:BM:53:PHE:CD1	1:BM:72:VAL:HG22	2.54	0.42
1:BM:7:ILE:HD12	1:BM:111:ILE:HG13	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BO:51:ALA:HA	1:BO:73:VAL:O	2.19	0.42
1:BX:74:PHE:HB3	1:BX:90:VAL:HG13	2.02	0.42
1:AI:16:ILE:HG21	1:BY:114:GLN:NE2	2.35	0.42
1:AL:109:ARG:NH2	1:CB:122:ASP:OD1	2.49	0.42
1:CF:111:ILE:O	1:CF:115:LEU:HG	2.19	0.42
1:CY:74:PHE:HB3	1:CY:90:VAL:HG13	2.02	0.42
1:DB:74:PHE:HB3	1:DB:90:VAL:HG13	2.02	0.42
1:AA:98:PRO:HB3	1:DH:45:TYR:HD2	1.83	0.42
1:AL:53:PHE:CD1	1:AL:72:VAL:HG22	2.54	0.42
1:AU:53:PHE:CD1	1:AU:72:VAL:HG22	2.54	0.42
1:BJ:53:PHE:CD1	1:BJ:72:VAL:HG22	2.54	0.42
1:CO:53:PHE:CD1	1:CO:72:VAL:HG22	2.54	0.42
1:CP:51:ALA:HA	1:CP:73:VAL:O	2.19	0.42
1:CU:87:PHE:O	1:CV:67:LYS:NZ	2.41	0.42
1:CZ:7:ILE:HD12	1:CZ:111:ILE:HG13	2.01	0.42
1:DB:51:ALA:HA	1:DB:73:VAL:O	2.19	0.42
1:AE:74:PHE:HB3	1:AE:90:VAL:HG13	2.02	0.42
1:AF:20:SER:O	1:BV:8:LYS:HA	2.20	0.42
1:AG:111:ILE:O	1:AG:115:LEU:HG	2.19	0.42
1:BO:74:PHE:HB3	1:BO:90:VAL:HG13	2.02	0.42
1:CE:53:PHE:CD1	1:CE:72:VAL:HG22	2.54	0.42
1:CQ:53:PHE:CD1	1:CQ:72:VAL:HG22	2.54	0.42
1:DE:51:ALA:HA	1:DE:73:VAL:O	2.19	0.42
1:AR:130:LEU:O	1:CK:35:LEU:HD22	2.20	0.41
1:AW:74:PHE:HB3	1:AW:90:VAL:HG13	2.02	0.41
1:BC:74:PHE:HB3	1:BC:90:VAL:HG13	2.02	0.41
1:CS:51:ALA:HA	1:CS:73:VAL:O	2.19	0.41
1:CY:51:ALA:HA	1:CY:73:VAL:O	2.19	0.41
1:DE:74:PHE:HB3	1:DE:90:VAL:HG13	2.02	0.41
1:AO:7:ILE:HD12	1:AO:111:ILE:HG13	2.01	0.41
1:BY:7:ILE:HD12	1:BY:111:ILE:HG13	2.01	0.41
1:CP:74:PHE:HB3	1:CP:90:VAL:HG13	2.02	0.41
1:DH:74:PHE:HB3	1:DH:90:VAL:HG13	2.02	0.41
1:DK:74:PHE:HB3	1:DK:90:VAL:HG13	2.02	0.41
1:AB:51:ALA:HA	1:AB:73:VAL:O	2.19	0.41
1:AC:19:GLY:O	1:BP:8:LYS:HD2	2.20	0.41
1:AI:74:PHE:CZ	1:BY:111:ILE:HD13	2.55	0.41
1:BY:53:PHE:CD1	1:BY:72:VAL:HG22	2.54	0.41
1:AU:111:ILE:HD13	1:CN:74:PHE:CZ	2.55	0.41
1:DC:53:PHE:CD1	1:DC:72:VAL:HG22	2.54	0.41
1:DL:7:ILE:HD12	1:DL:111:ILE:HG13	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:18:GLY:HA2	1:AK:12:THR:H	1.86	0.41
1:AM:18:GLY:HA2	1:AN:12:THR:H	1.86	0.41
1:AU:7:ILE:HD12	1:AU:111:ILE:HG13	2.01	0.41
1:AY:18:GLY:HA2	1:AZ:12:THR:H	1.86	0.41
1:BV:53:PHE:CD1	1:BV:72:VAL:HG22	2.54	0.41
1:AI:109:ARG:NE	1:BY:116:LEU:O	2.50	0.41
1:CD:74:PHE:HB3	1:CD:90:VAL:HG13	2.02	0.41
1:CI:18:GLY:HA2	1:CJ:12:THR:H	1.86	0.41
1:DC:7:ILE:HD12	1:DC:111:ILE:HG13	2.01	0.41
1:BM:109:ARG:NE	1:DI:116:LEU:O	2.52	0.41
1:AU:16:ILE:HA	1:CN:14:ALA:HA	2.02	0.41
1:AX:14:ALA:HB3	1:CT:117:THR:HB	2.01	0.41
1:AX:53:PHE:CD1	1:AX:72:VAL:HG22	2.54	0.41
1:BH:18:GLY:HA2	1:BI:12:THR:H	1.86	0.41
1:BK:18:GLY:HA2	1:BL:12:THR:H	1.86	0.41
1:BL:74:PHE:HB3	1:BL:90:VAL:HG13	2.02	0.41
1:AL:46:ARG:HG3	1:CV:98:PRO:HB2	2.03	0.41
1:CX:18:GLY:HA2	1:CY:12:THR:H	1.86	0.41
1:AH:74:PHE:HB3	1:AH:90:VAL:HG13	2.02	0.41
1:AK:74:PHE:HB3	1:AK:90:VAL:HG13	2.02	0.41
1:AZ:10:GLY:H	1:AZ:107:ASP:CG	2.24	0.41
1:BC:10:GLY:H	1:BC:107:ASP:CG	2.24	0.41
1:BO:10:GLY:H	1:BO:107:ASP:CG	2.24	0.41
1:BU:10:GLY:H	1:BU:107:ASP:CG	2.24	0.41
1:AF:95:GLU:HB2	1:BV:89:SER:HB2	2.02	0.41
1:CF:18:GLY:HA2	1:CG:12:THR:H	1.86	0.41
1:AG:57:VAL:HG21	1:CS:29:GLN:HG3	2.03	0.41
1:AJ:65:TYR:CD2	1:CV:46:ARG:HG3	2.55	0.41
1:AB:10:GLY:H	1:AB:107:ASP:CG	2.24	0.41
1:AC:46:ARG:HA	1:DH:65:TYR:CE2	2.49	0.41
1:AF:111:ILE:HD13	1:BV:74:PHE:CZ	2.56	0.41
1:AI:46:ARG:HG2	1:CS:65:TYR:HD2	1.84	0.41
1:AK:10:GLY:H	1:AK:107:ASP:CG	2.24	0.41
1:AR:122:ASP:OD1	1:CK:109:ARG:NH2	2.52	0.41
1:AT:10:GLY:H	1:AT:107:ASP:CG	2.24	0.41
1:AX:122:ASP:OD1	1:CT:109:ARG:NH2	2.49	0.41
1:BC:51:ALA:HA	1:BC:73:VAL:O	2.19	0.41
1:CB:53:PHE:CD1	1:CB:72:VAL:HG22	2.54	0.41
1:CU:18:GLY:HA2	1:CV:12:THR:H	1.86	0.41
1:DA:18:GLY:HA2	1:DB:12:THR:H	1.86	0.41
1:DG:18:GLY:HA2	1:DH:12:THR:H	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:10:GLY:H	1:AH:107:ASP:CG	2.24	0.41
1:AP:18:GLY:HA2	1:AQ:12:THR:H	1.86	0.41
1:BQ:16:ILE:CD1	1:BR:114:GLN:HE21	2.26	0.41
1:CA:10:GLY:H	1:CA:107:ASP:CG	2.24	0.41
1:CM:74:PHE:HB3	1:CM:90:VAL:HG13	2.02	0.41
1:CO:18:GLY:HA2	1:CP:12:THR:H	1.86	0.41
1:CP:10:GLY:H	1:CP:107:ASP:CG	2.24	0.41
1:AE:127:LEU:HD23	1:DE:48:ARG:HH22	1.85	0.41
1:DH:10:GLY:H	1:DH:107:ASP:CG	2.24	0.41
1:DJ:18:GLY:HA2	1:DK:12:THR:H	1.86	0.41
1:AG:18:GLY:HA2	1:AH:12:THR:H	1.86	0.41
1:AQ:74:PHE:HB3	1:AQ:90:VAL:HG13	2.02	0.41
1:BF:10:GLY:H	1:BF:107:ASP:CG	2.24	0.41
1:BR:74:PHE:HB3	1:BR:90:VAL:HG13	2.02	0.41
1:CA:74:PHE:HB3	1:CA:90:VAL:HG13	2.02	0.41
1:CC:18:GLY:HA2	1:CD:12:THR:H	1.86	0.41
1:DD:18:GLY:HA2	1:DE:12:THR:H	1.86	0.41
1:DE:10:GLY:H	1:DE:107:ASP:CG	2.24	0.41
1:AO:122:ASP:OD1	1:CE:109:ARG:NH1	2.45	0.41
1:BG:16:ILE:HD13	1:DC:114:GLN:NE2	2.22	0.41
1:BM:12:THR:H	1:DI:18:GLY:HA2	1.86	0.41
1:BQ:18:GLY:HA2	1:BR:12:THR:H	1.86	0.41
1:CG:74:PHE:HB3	1:CG:90:VAL:HG13	2.02	0.41
1:CV:74:PHE:HB3	1:CV:90:VAL:HG13	2.02	0.41
1:CL:130:LEU:O	1:CZ:26:LEU:HB3	2.20	0.41
1:BD:19:GLY:O	1:CZ:8:LYS:HD2	2.21	0.41
1:DB:10:GLY:H	1:DB:107:ASP:CG	2.24	0.41
1:AD:18:GLY:HA2	1:AE:12:THR:H	1.86	0.41
1:AS:18:GLY:HA2	1:AT:12:THR:H	1.86	0.41
1:AX:109:ARG:HD2	1:CT:125:TRP:HB3	2.03	0.41
1:BF:74:PHE:HB3	1:BF:90:VAL:HG13	2.02	0.41
1:AC:6:SER:HA	1:BP:22:ILE:O	2.21	0.41
1:CA:65:TYR:HE2	1:CH:46:ARG:CA	2.33	0.41
1:CD:10:GLY:H	1:CD:107:ASP:CG	2.24	0.41
1:AI:46:ARG:HA	1:CS:65:TYR:HE2	1.84	0.41
1:AL:46:ARG:HG2	1:CV:65:TYR:HD2	1.84	0.40
1:AZ:74:PHE:HB3	1:AZ:90:VAL:HG13	2.02	0.40
1:AC:116:LEU:HG	1:BP:92:ILE:HG21	2.03	0.40
1:AR:55:SER:HB3	1:CK:130:LEU:HD21	2.01	0.40
1:CS:110:LEU:O	1:CS:114:GLN:HG3	2.22	0.40
1:AL:26:LEU:HB3	1:CU:130:LEU:O	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:74:PHE:HB3	1:AN:90:VAL:HG13	2.02	0.40
1:AR:122:ASP:OD1	1:CK:109:ARG:NH1	2.52	0.40
1:AU:74:PHE:CZ	1:CN:111:ILE:HD13	2.56	0.40
1:AW:10:GLY:H	1:AW:107:ASP:CG	2.24	0.40
1:BO:110:LEU:O	1:BO:114:GLN:HG3	2.22	0.40
1:CJ:74:PHE:HB3	1:CJ:90:VAL:HG13	2.02	0.40
1:CM:110:LEU:O	1:CM:114:GLN:HG3	2.22	0.40
1:AA:18:GLY:HA2	1:AB:12:THR:H	1.86	0.40
1:AT:48:ARG:HH22	1:AW:127:LEU:HD23	1.85	0.40
1:BB:18:GLY:HA2	1:BC:12:THR:H	1.86	0.40
1:BI:10:GLY:H	1:BI:107:ASP:CG	2.24	0.40
1:BN:18:GLY:HA2	1:BO:12:THR:H	1.86	0.40
1:BX:10:GLY:H	1:BX:107:ASP:CG	2.24	0.40
1:BX:110:LEU:O	1:BX:114:GLN:HG3	2.22	0.40
1:AK:26:LEU:O	1:BX:129:ALA:HB2	2.21	0.40
1:CG:10:GLY:H	1:CG:107:ASP:CG	2.24	0.40
1:CI:11:ALA:HA	1:CJ:18:GLY:HA2	2.04	0.40
1:CJ:10:GLY:H	1:CJ:107:ASP:CG	2.24	0.40
1:CU:11:ALA:HA	1:CV:18:GLY:HA2	2.04	0.40
1:CY:110:LEU:O	1:CY:114:GLN:HG3	2.22	0.40
1:DG:11:ALA:HA	1:DH:18:GLY:HA2	2.04	0.40
1:AF:92:ILE:HA	1:BV:91:ARG:O	2.22	0.40
1:AQ:10:GLY:H	1:AQ:107:ASP:CG	2.24	0.40
1:AV:18:GLY:HA2	1:AW:12:THR:H	1.86	0.40
1:AT:85:THR:N	1:AV:63:GLY:O	2.47	0.40
1:BA:26:LEU:HD13	1:BA:35:LEU:HD11	2.04	0.40
1:BC:65:TYR:HE2	1:BP:46:ARG:CA	2.32	0.40
1:BL:110:LEU:O	1:BL:114:GLN:HG3	2.22	0.40
1:BR:42:ASP:CB	1:BR:48:ARG:HG2	2.50	0.40
1:BU:110:LEU:O	1:BU:114:GLN:HG3	2.22	0.40
1:BW:11:ALA:HA	1:BX:18:GLY:HA2	2.04	0.40
1:AO:129:ALA:HB2	1:CC:26:LEU:O	2.21	0.40
1:CM:8:LYS:HB2	1:CM:114:GLN:NE2	2.32	0.40
1:CR:18:GLY:HA2	1:CS:12:THR:H	1.86	0.40
1:CX:31:VAL:HG13	1:CX:54:LYS:HE2	2.04	0.40
1:DA:31:VAL:HG13	1:DA:54:LYS:HE2	2.04	0.40
1:DE:110:LEU:O	1:DE:114:GLN:HG3	2.22	0.40
1:DG:31:VAL:HG13	1:DG:54:LYS:HE2	2.04	0.40
1:AJ:31:VAL:HG13	1:AJ:54:LYS:HE2	2.04	0.40
1:AN:10:GLY:H	1:AN:107:ASP:CG	2.24	0.40
1:AY:71:GLU:HG2	1:AY:93:ALA:HB2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:122:ASP:OD1	1:CW:109:ARG:NH2	2.53	0.40
1:BB:71:GLU:HG2	1:BB:93:ALA:HB2	2.04	0.40
1:BB:87:PHE:O	1:BC:67:LYS:NZ	2.41	0.40
1:BC:42:ASP:CB	1:BC:48:ARG:HG2	2.50	0.40
1:BE:18:GLY:HA2	1:BF:12:THR:H	1.86	0.40
1:BL:10:GLY:H	1:BL:107:ASP:CG	2.24	0.40
1:BR:110:LEU:O	1:BR:114:GLN:HG3	2.22	0.40
1:BT:18:GLY:HA2	1:BU:12:THR:H	1.86	0.40
1:BZ:18:GLY:HA2	1:CA:12:THR:H	1.86	0.40
1:CC:31:VAL:HG13	1:CC:54:LYS:HE2	2.04	0.40
1:CC:11:ALA:HA	1:CD:18:GLY:HA2	2.04	0.40
1:CF:87:PHE:O	1:CG:67:LYS:NZ	2.41	0.40
1:CI:31:VAL:HG13	1:CI:54:LYS:HE2	2.04	0.40
1:CL:18:GLY:HA2	1:CM:12:THR:H	1.86	0.40
1:CL:11:ALA:HA	1:CM:18:GLY:HA2	2.04	0.40

All (3) 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:BS:17:THR:O	1:CH:12:THR:OG1[2_555]	2.03	0.17
1:AR:30:THR:OG1	1:CG:33:ASN:OD1[2_555]	2.04	0.16
1:AP:33:ASN:OD1	1:CG:30:THR:OG1[2_555]	2.13	0.07

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	129/131 (98%)	127 (98%)	2 (2%)	0	100	100
1	AB	129/131 (98%)	128 (99%)	1 (1%)	0	100	100
1	AC	129/131 (98%)	129 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	AD	129/131 (98%)	127 (98%)	2 (2%)	0	100	100
1	AE	129/131 (98%)	128 (99%)	1 (1%)	0	100	100
1	AF	129/131 (98%)	129 (100%)	0	0	100	100
1	AG	129/131 (98%)	127 (98%)	2 (2%)	0	100	100
1	AH	129/131 (98%)	128 (99%)	1 (1%)	0	100	100
1	AI	129/131 (98%)	129 (100%)	0	0	100	100
1	AJ	129/131 (98%)	127 (98%)	2 (2%)	0	100	100
1	AK	129/131 (98%)	128 (99%)	1 (1%)	0	100	100
1	AL	129/131 (98%)	129 (100%)	0	0	100	100
1	AM	129/131 (98%)	127 (98%)	2 (2%)	0	100	100
1	AN	129/131 (98%)	128 (99%)	1 (1%)	0	100	100
1	AO	129/131 (98%)	129 (100%)	0	0	100	100
1	AP	129/131 (98%)	127 (98%)	2 (2%)	0	100	100
1	AQ	129/131 (98%)	128 (99%)	1 (1%)	0	100	100
1	AR	129/131 (98%)	129 (100%)	0	0	100	100
1	AS	129/131 (98%)	127 (98%)	2 (2%)	0	100	100
1	AT	129/131 (98%)	128 (99%)	1 (1%)	0	100	100
1	AU	129/131 (98%)	129 (100%)	0	0	100	100
1	AV	129/131 (98%)	127 (98%)	2 (2%)	0	100	100
1	AW	129/131 (98%)	128 (99%)	1 (1%)	0	100	100
1	AX	129/131 (98%)	129 (100%)	0	0	100	100
1	AY	129/131 (98%)	127 (98%)	2 (2%)	0	100	100
1	AZ	129/131 (98%)	128 (99%)	1 (1%)	0	100	100
1	BA	129/131 (98%)	129 (100%)	0	0	100	100
1	BB	129/131 (98%)	127 (98%)	2 (2%)	0	100	100
1	BC	129/131 (98%)	128 (99%)	1 (1%)	0	100	100
1	BD	129/131 (98%)	129 (100%)	0	0	100	100
1	BE	129/131 (98%)	127 (98%)	2 (2%)	0	100	100
1	BF	129/131 (98%)	128 (99%)	1 (1%)	0	100	100
1	BG	129/131 (98%)	129 (100%)	0	0	100	100
1	BH	129/131 (98%)	127 (98%)	2 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	BI	129/131 (98%)	128 (99%)	1 (1%)	0	100	100
1	BJ	129/131 (98%)	129 (100%)	0	0	100	100
1	BK	129/131 (98%)	127 (98%)	2 (2%)	0	100	100
1	BL	129/131 (98%)	128 (99%)	1 (1%)	0	100	100
1	BM	129/131 (98%)	129 (100%)	0	0	100	100
1	BN	129/131 (98%)	127 (98%)	2 (2%)	0	100	100
1	BO	129/131 (98%)	128 (99%)	1 (1%)	0	100	100
1	BP	129/131 (98%)	129 (100%)	0	0	100	100
1	BQ	129/131 (98%)	127 (98%)	2 (2%)	0	100	100
1	BR	129/131 (98%)	128 (99%)	1 (1%)	0	100	100
1	BS	129/131 (98%)	129 (100%)	0	0	100	100
1	BT	129/131 (98%)	127 (98%)	2 (2%)	0	100	100
1	BU	129/131 (98%)	128 (99%)	1 (1%)	0	100	100
1	BV	129/131 (98%)	129 (100%)	0	0	100	100
1	BW	129/131 (98%)	127 (98%)	2 (2%)	0	100	100
1	BX	129/131 (98%)	128 (99%)	1 (1%)	0	100	100
1	BY	129/131 (98%)	129 (100%)	0	0	100	100
1	BZ	129/131 (98%)	127 (98%)	2 (2%)	0	100	100
1	CA	129/131 (98%)	128 (99%)	1 (1%)	0	100	100
1	CB	129/131 (98%)	129 (100%)	0	0	100	100
1	CC	129/131 (98%)	127 (98%)	2 (2%)	0	100	100
1	CD	129/131 (98%)	128 (99%)	1 (1%)	0	100	100
1	CE	129/131 (98%)	129 (100%)	0	0	100	100
1	CF	129/131 (98%)	127 (98%)	2 (2%)	0	100	100
1	CG	129/131 (98%)	128 (99%)	1 (1%)	0	100	100
1	CH	129/131 (98%)	129 (100%)	0	0	100	100
1	CI	129/131 (98%)	127 (98%)	2 (2%)	0	100	100
1	CJ	129/131 (98%)	128 (99%)	1 (1%)	0	100	100
1	CK	129/131 (98%)	129 (100%)	0	0	100	100
1	CL	129/131 (98%)	127 (98%)	2 (2%)	0	100	100
1	CM	129/131 (98%)	128 (99%)	1 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	CN	129/131 (98%)	129 (100%)	0	0	100	100
1	CO	129/131 (98%)	127 (98%)	2 (2%)	0	100	100
1	CP	129/131 (98%)	128 (99%)	1 (1%)	0	100	100
1	CQ	129/131 (98%)	129 (100%)	0	0	100	100
1	CR	129/131 (98%)	127 (98%)	2 (2%)	0	100	100
1	CS	129/131 (98%)	128 (99%)	1 (1%)	0	100	100
1	CT	129/131 (98%)	129 (100%)	0	0	100	100
1	CU	129/131 (98%)	127 (98%)	2 (2%)	0	100	100
1	CV	129/131 (98%)	128 (99%)	1 (1%)	0	100	100
1	CW	129/131 (98%)	129 (100%)	0	0	100	100
1	CX	129/131 (98%)	127 (98%)	2 (2%)	0	100	100
1	CY	129/131 (98%)	128 (99%)	1 (1%)	0	100	100
1	CZ	129/131 (98%)	129 (100%)	0	0	100	100
1	DA	129/131 (98%)	127 (98%)	2 (2%)	0	100	100
1	DB	129/131 (98%)	128 (99%)	1 (1%)	0	100	100
1	DC	129/131 (98%)	129 (100%)	0	0	100	100
1	DD	129/131 (98%)	127 (98%)	2 (2%)	0	100	100
1	DE	129/131 (98%)	128 (99%)	1 (1%)	0	100	100
1	DF	129/131 (98%)	129 (100%)	0	0	100	100
1	DG	129/131 (98%)	127 (98%)	2 (2%)	0	100	100
1	DH	129/131 (98%)	128 (99%)	1 (1%)	0	100	100
1	DI	129/131 (98%)	129 (100%)	0	0	100	100
1	DJ	129/131 (98%)	127 (98%)	2 (2%)	0	100	100
1	DK	129/131 (98%)	128 (99%)	1 (1%)	0	100	100
1	DL	129/131 (98%)	129 (100%)	0	0	100	100
All	All	11610/11790 (98%)	11520 (99%)	90 (1%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

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

resolution.

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	AA	108/108 (100%)	107 (99%)	1 (1%)	78 91
1	AB	108/108 (100%)	108 (100%)	0	100 100
1	AC	108/108 (100%)	108 (100%)	0	100 100
1	AD	108/108 (100%)	107 (99%)	1 (1%)	78 91
1	AE	108/108 (100%)	108 (100%)	0	100 100
1	AF	108/108 (100%)	108 (100%)	0	100 100
1	AG	108/108 (100%)	107 (99%)	1 (1%)	78 91
1	AH	108/108 (100%)	108 (100%)	0	100 100
1	AI	108/108 (100%)	108 (100%)	0	100 100
1	AJ	108/108 (100%)	107 (99%)	1 (1%)	78 91
1	AK	108/108 (100%)	108 (100%)	0	100 100
1	AL	108/108 (100%)	108 (100%)	0	100 100
1	AM	108/108 (100%)	107 (99%)	1 (1%)	78 91
1	AN	108/108 (100%)	108 (100%)	0	100 100
1	AO	108/108 (100%)	108 (100%)	0	100 100
1	AP	108/108 (100%)	107 (99%)	1 (1%)	78 91
1	AQ	108/108 (100%)	108 (100%)	0	100 100
1	AR	108/108 (100%)	108 (100%)	0	100 100
1	AS	108/108 (100%)	107 (99%)	1 (1%)	78 91
1	AT	108/108 (100%)	108 (100%)	0	100 100
1	AU	108/108 (100%)	108 (100%)	0	100 100
1	AV	108/108 (100%)	107 (99%)	1 (1%)	78 91
1	AW	108/108 (100%)	108 (100%)	0	100 100
1	AX	108/108 (100%)	108 (100%)	0	100 100
1	AY	108/108 (100%)	107 (99%)	1 (1%)	78 91
1	AZ	108/108 (100%)	108 (100%)	0	100 100
1	BA	108/108 (100%)	108 (100%)	0	100 100
1	BB	108/108 (100%)	107 (99%)	1 (1%)	78 91
1	BC	108/108 (100%)	108 (100%)	0	100 100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	BD	108/108 (100%)	108 (100%)	0	100 100
1	BE	108/108 (100%)	107 (99%)	1 (1%)	78 91
1	BF	108/108 (100%)	108 (100%)	0	100 100
1	BG	108/108 (100%)	108 (100%)	0	100 100
1	BH	108/108 (100%)	107 (99%)	1 (1%)	78 91
1	BI	108/108 (100%)	108 (100%)	0	100 100
1	BJ	108/108 (100%)	108 (100%)	0	100 100
1	BK	108/108 (100%)	107 (99%)	1 (1%)	78 91
1	BL	108/108 (100%)	108 (100%)	0	100 100
1	BM	108/108 (100%)	108 (100%)	0	100 100
1	BN	108/108 (100%)	107 (99%)	1 (1%)	78 91
1	BO	108/108 (100%)	108 (100%)	0	100 100
1	BP	108/108 (100%)	108 (100%)	0	100 100
1	BQ	108/108 (100%)	107 (99%)	1 (1%)	78 91
1	BR	108/108 (100%)	108 (100%)	0	100 100
1	BS	108/108 (100%)	108 (100%)	0	100 100
1	BT	108/108 (100%)	107 (99%)	1 (1%)	78 91
1	BU	108/108 (100%)	108 (100%)	0	100 100
1	BV	108/108 (100%)	108 (100%)	0	100 100
1	BW	108/108 (100%)	107 (99%)	1 (1%)	78 91
1	BX	108/108 (100%)	108 (100%)	0	100 100
1	BY	108/108 (100%)	108 (100%)	0	100 100
1	BZ	108/108 (100%)	107 (99%)	1 (1%)	78 91
1	CA	108/108 (100%)	108 (100%)	0	100 100
1	CB	108/108 (100%)	108 (100%)	0	100 100
1	CC	108/108 (100%)	107 (99%)	1 (1%)	78 91
1	CD	108/108 (100%)	108 (100%)	0	100 100
1	CE	108/108 (100%)	108 (100%)	0	100 100
1	CF	108/108 (100%)	107 (99%)	1 (1%)	78 91
1	CG	108/108 (100%)	108 (100%)	0	100 100
1	CH	108/108 (100%)	108 (100%)	0	100 100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	CI	108/108 (100%)	107 (99%)	1 (1%)	78 91
1	CJ	108/108 (100%)	108 (100%)	0	100 100
1	CK	108/108 (100%)	108 (100%)	0	100 100
1	CL	108/108 (100%)	107 (99%)	1 (1%)	78 91
1	CM	108/108 (100%)	108 (100%)	0	100 100
1	CN	108/108 (100%)	108 (100%)	0	100 100
1	CO	108/108 (100%)	107 (99%)	1 (1%)	78 91
1	CP	108/108 (100%)	108 (100%)	0	100 100
1	CQ	108/108 (100%)	108 (100%)	0	100 100
1	CR	108/108 (100%)	107 (99%)	1 (1%)	78 91
1	CS	108/108 (100%)	108 (100%)	0	100 100
1	CT	108/108 (100%)	108 (100%)	0	100 100
1	CU	108/108 (100%)	107 (99%)	1 (1%)	78 91
1	CV	108/108 (100%)	108 (100%)	0	100 100
1	CW	108/108 (100%)	108 (100%)	0	100 100
1	CX	108/108 (100%)	107 (99%)	1 (1%)	78 91
1	CY	108/108 (100%)	108 (100%)	0	100 100
1	CZ	108/108 (100%)	108 (100%)	0	100 100
1	DA	108/108 (100%)	107 (99%)	1 (1%)	78 91
1	DB	108/108 (100%)	108 (100%)	0	100 100
1	DC	108/108 (100%)	108 (100%)	0	100 100
1	DD	108/108 (100%)	107 (99%)	1 (1%)	78 91
1	DE	108/108 (100%)	108 (100%)	0	100 100
1	DF	108/108 (100%)	108 (100%)	0	100 100
1	DG	108/108 (100%)	107 (99%)	1 (1%)	78 91
1	DH	108/108 (100%)	108 (100%)	0	100 100
1	DI	108/108 (100%)	108 (100%)	0	100 100
1	DJ	108/108 (100%)	107 (99%)	1 (1%)	78 91
1	DK	108/108 (100%)	108 (100%)	0	100 100
1	DL	108/108 (100%)	108 (100%)	0	100 100
All	All	9720/9720 (100%)	9690 (100%)	30 (0%)	92 97

All (30) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	AA	36	ASN
1	AD	36	ASN
1	AG	36	ASN
1	AJ	36	ASN
1	AM	36	ASN
1	AP	36	ASN
1	AS	36	ASN
1	AV	36	ASN
1	AY	36	ASN
1	BB	36	ASN
1	BE	36	ASN
1	BH	36	ASN
1	BK	36	ASN
1	BN	36	ASN
1	BQ	36	ASN
1	BT	36	ASN
1	BW	36	ASN
1	BZ	36	ASN
1	CC	36	ASN
1	CF	36	ASN
1	CI	36	ASN
1	CL	36	ASN
1	CO	36	ASN
1	CR	36	ASN
1	CU	36	ASN
1	CX	36	ASN
1	DA	36	ASN
1	DD	36	ASN
1	DG	36	ASN
1	DJ	36	ASN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (61) such sidechains are listed below:

Mol	Chain	Res	Type
1	AB	29	GLN
1	AB	36	ASN
1	AE	29	GLN
1	AE	36	ASN
1	AH	29	GLN
1	AH	36	ASN
1	AK	29	GLN

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Mol	Chain	Res	Type
1	AK	36	ASN
1	AN	29	GLN
1	AN	36	ASN
1	AQ	29	GLN
1	AQ	36	ASN
1	AT	29	GLN
1	AT	36	ASN
1	AW	29	GLN
1	AW	36	ASN
1	AZ	29	GLN
1	AZ	36	ASN
1	BC	29	GLN
1	BC	36	ASN
1	BF	29	GLN
1	BF	36	ASN
1	BI	29	GLN
1	BI	36	ASN
1	BL	29	GLN
1	BL	36	ASN
1	BO	29	GLN
1	BO	36	ASN
1	BR	29	GLN
1	BR	36	ASN
1	BU	29	GLN
1	BU	36	ASN
1	BX	29	GLN
1	BX	36	ASN
1	CA	29	GLN
1	CA	36	ASN
1	CD	29	GLN
1	CD	36	ASN
1	CG	29	GLN
1	CG	36	ASN
1	CJ	29	GLN
1	CJ	36	ASN
1	CM	29	GLN
1	CM	36	ASN
1	CP	29	GLN
1	CP	36	ASN
1	CS	29	GLN
1	CS	36	ASN
1	CV	29	GLN

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Mol	Chain	Res	Type
1	CV	36	ASN
1	CY	29	GLN
1	CY	36	ASN
1	DA	36	ASN
1	DB	29	GLN
1	DB	36	ASN
1	DE	29	GLN
1	DE	36	ASN
1	DH	29	GLN
1	DH	36	ASN
1	DK	29	GLN
1	DK	36	ASN

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

There are no ligands in this entry.

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	131/131 (100%)	0.21	4 (3%)	49	45	64, 111, 139, 160	0
1	AB	131/131 (100%)	0.02	2 (1%)	73	70	64, 109, 138, 177	0
1	AC	131/131 (100%)	0.37	9 (6%)	16	18	64, 110, 142, 191	0
1	AD	131/131 (100%)	0.14	5 (3%)	40	37	64, 111, 139, 160	0
1	AE	131/131 (100%)	0.08	3 (2%)	60	56	64, 109, 138, 177	0
1	AF	131/131 (100%)	0.08	6 (4%)	32	30	64, 110, 142, 191	0
1	AG	131/131 (100%)	0.16	6 (4%)	32	30	64, 111, 139, 160	0
1	AH	131/131 (100%)	0.14	4 (3%)	49	45	64, 109, 138, 177	0
1	AI	131/131 (100%)	0.40	9 (6%)	16	18	64, 110, 142, 191	0
1	AJ	131/131 (100%)	0.11	3 (2%)	60	56	64, 111, 139, 160	0
1	AK	131/131 (100%)	0.07	3 (2%)	60	56	64, 109, 138, 177	0
1	AL	131/131 (100%)	0.11	1 (0%)	86	82	64, 110, 142, 191	0
1	AM	131/131 (100%)	0.07	1 (0%)	86	82	64, 111, 139, 160	0
1	AN	131/131 (100%)	0.17	3 (2%)	60	56	64, 109, 138, 177	0
1	AO	131/131 (100%)	0.26	5 (3%)	40	37	64, 110, 142, 191	0
1	AP	131/131 (100%)	-0.09	2 (1%)	73	70	64, 111, 139, 160	0
1	AQ	131/131 (100%)	-0.05	3 (2%)	60	56	64, 109, 138, 177	0
1	AR	131/131 (100%)	0.15	4 (3%)	49	45	64, 110, 142, 191	0
1	AS	131/131 (100%)	0.01	1 (0%)	86	82	64, 111, 139, 160	0
1	AT	131/131 (100%)	0.12	3 (2%)	60	56	64, 109, 138, 177	0
1	AU	131/131 (100%)	0.39	11 (8%)	11	13	64, 110, 142, 191	0
1	AV	131/131 (100%)	0.04	1 (0%)	86	82	64, 111, 139, 160	0
1	AW	131/131 (100%)	-0.01	4 (3%)	49	45	64, 109, 138, 177	0
1	AX	131/131 (100%)	0.03	5 (3%)	40	37	64, 110, 142, 191	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2		OWAB(Å^2)	Q<0.9
1	AY	131/131 (100%)	-0.02	2 (1%)	73 70	64, 111, 139, 160	0
1	AZ	131/131 (100%)	-0.01	3 (2%)	60 56	64, 109, 138, 177	0
1	BA	131/131 (100%)	0.08	7 (5%)	26 25	64, 110, 142, 191	0
1	BB	131/131 (100%)	0.11	2 (1%)	73 70	64, 111, 139, 160	0
1	BC	131/131 (100%)	0.12	1 (0%)	86 82	64, 109, 138, 177	0
1	BD	131/131 (100%)	-0.01	3 (2%)	60 56	64, 110, 142, 191	0
1	BE	131/131 (100%)	0.31	9 (6%)	16 18	64, 111, 139, 160	0
1	BF	131/131 (100%)	0.26	7 (5%)	26 25	64, 109, 138, 177	0
1	BG	131/131 (100%)	0.16	8 (6%)	21 21	64, 110, 142, 191	0
1	BH	131/131 (100%)	0.30	12 (9%)	9 10	64, 111, 139, 160	0
1	BI	131/131 (100%)	0.02	3 (2%)	60 56	64, 109, 138, 177	0
1	BJ	131/131 (100%)	0.25	10 (7%)	13 15	64, 110, 142, 191	0
1	BK	131/131 (100%)	0.11	9 (6%)	16 18	64, 111, 139, 160	0
1	BL	131/131 (100%)	0.19	3 (2%)	60 56	64, 109, 138, 177	0
1	BM	131/131 (100%)	0.30	12 (9%)	9 10	64, 110, 142, 191	0
1	BN	131/131 (100%)	0.11	3 (2%)	60 56	64, 111, 139, 160	0
1	BO	131/131 (100%)	-0.04	5 (3%)	40 37	64, 109, 138, 177	0
1	BP	131/131 (100%)	0.32	9 (6%)	16 18	64, 110, 142, 191	0
1	BQ	131/131 (100%)	0.16	8 (6%)	21 21	64, 111, 139, 160	0
1	BR	131/131 (100%)	0.03	3 (2%)	60 56	64, 109, 138, 177	0
1	BS	131/131 (100%)	0.17	5 (3%)	40 37	64, 110, 142, 191	0
1	BT	131/131 (100%)	0.08	5 (3%)	40 37	64, 111, 139, 160	0
1	BU	131/131 (100%)	-0.01	2 (1%)	73 70	64, 109, 138, 177	0
1	BV	131/131 (100%)	0.22	11 (8%)	11 13	64, 110, 142, 191	0
1	BW	131/131 (100%)	0.18	5 (3%)	40 37	64, 111, 139, 160	0
1	BX	131/131 (100%)	0.08	3 (2%)	60 56	64, 109, 138, 177	0
1	BY	131/131 (100%)	0.15	2 (1%)	73 70	64, 110, 142, 191	0
1	BZ	131/131 (100%)	0.08	7 (5%)	26 25	64, 111, 139, 160	0
1	CA	131/131 (100%)	0.15	4 (3%)	49 45	64, 109, 138, 177	0
1	CB	131/131 (100%)	0.20	5 (3%)	40 37	64, 110, 142, 191	0
1	CC	131/131 (100%)	0.18	4 (3%)	49 45	64, 111, 139, 160	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	CD	131/131 (100%)	0.01	4 (3%) 49 45	64, 109, 138, 177	0
1	CE	131/131 (100%)	0.13	8 (6%) 21 21	64, 110, 142, 191	0
1	CF	131/131 (100%)	0.30	6 (4%) 32 30	64, 111, 139, 160	0
1	CG	131/131 (100%)	0.08	6 (4%) 32 30	64, 109, 138, 177	0
1	CH	131/131 (100%)	0.15	5 (3%) 40 37	64, 110, 142, 191	0
1	CI	131/131 (100%)	0.09	6 (4%) 32 30	64, 111, 139, 160	0
1	CJ	131/131 (100%)	-0.06	2 (1%) 73 70	64, 109, 138, 177	0
1	CK	131/131 (100%)	0.14	8 (6%) 21 21	64, 110, 142, 191	0
1	CL	131/131 (100%)	0.25	10 (7%) 13 15	64, 111, 139, 160	0
1	CM	131/131 (100%)	0.09	4 (3%) 49 45	64, 109, 138, 177	0
1	CN	131/131 (100%)	0.04	1 (0%) 86 82	64, 110, 142, 191	0
1	CO	131/131 (100%)	-0.05	2 (1%) 73 70	64, 111, 139, 160	0
1	CP	131/131 (100%)	-0.01	3 (2%) 60 56	64, 109, 138, 177	0
1	CQ	131/131 (100%)	0.01	3 (2%) 60 56	64, 110, 142, 191	0
1	CR	131/131 (100%)	0.10	6 (4%) 32 30	64, 111, 139, 160	0
1	CS	131/131 (100%)	0.10	5 (3%) 40 37	64, 109, 138, 177	0
1	CT	131/131 (100%)	0.32	16 (12%) 4 6	64, 110, 142, 191	0
1	CU	131/131 (100%)	-0.04	4 (3%) 49 45	64, 111, 139, 160	0
1	CV	131/131 (100%)	0.09	5 (3%) 40 37	64, 109, 138, 177	0
1	CW	131/131 (100%)	0.47	17 (12%) 3 5	64, 110, 142, 191	0
1	CX	131/131 (100%)	-0.01	4 (3%) 49 45	64, 111, 139, 160	0
1	CY	131/131 (100%)	-0.09	1 (0%) 86 82	64, 109, 138, 177	0
1	CZ	131/131 (100%)	0.13	4 (3%) 49 45	64, 110, 142, 191	0
1	DA	131/131 (100%)	-0.04	3 (2%) 60 56	64, 111, 139, 160	0
1	DB	131/131 (100%)	0.09	8 (6%) 21 21	64, 109, 138, 177	0
1	DC	131/131 (100%)	0.25	12 (9%) 9 10	64, 110, 142, 191	0
1	DD	131/131 (100%)	0.37	10 (7%) 13 15	64, 111, 139, 160	0
1	DE	131/131 (100%)	0.10	3 (2%) 60 56	64, 109, 138, 177	0
1	DF	131/131 (100%)	0.27	10 (7%) 13 15	64, 110, 142, 191	0
1	DG	131/131 (100%)	-0.00	3 (2%) 60 56	64, 111, 139, 160	0
1	DH	131/131 (100%)	0.04	4 (3%) 49 45	64, 109, 138, 177	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	DI	131/131 (100%)	0.17	6 (4%) 32 30	64, 110, 142, 191	0
1	DJ	131/131 (100%)	-0.01	3 (2%) 60 56	64, 111, 139, 160	0
1	DK	131/131 (100%)	-0.00	2 (1%) 73 70	64, 109, 138, 177	0
1	DL	131/131 (100%)	0.03	3 (2%) 60 56	64, 110, 142, 191	0
All	All	11790/11790 (100%)	0.12	467 (3%) 38 35	64, 110, 141, 191	0

All (467) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	BH	65	TYR	6.2
1	CT	88	ASN	5.8
1	CW	24	PHE	5.5
1	AU	54	LYS	5.4
1	BH	62	ASN	5.1
1	AY	65	TYR	4.7
1	BM	131	ALA	4.6
1	AU	55	SER	4.4
1	AU	53	PHE	4.4
1	CS	88	ASN	4.4
1	BY	61	VAL	4.4
1	BQ	62	ASN	4.3
1	CT	64	ASN	4.3
1	CF	65	TYR	4.2
1	AF	53	PHE	4.1
1	CW	23	THR	4.0
1	CS	60	VAL	4.0
1	BA	53	PHE	3.8
1	DI	53	PHE	3.8
1	AI	53	PHE	3.8
1	CL	65	TYR	3.8
1	DD	65	TYR	3.8
1	CW	22	ILE	3.7
1	BH	61	VAL	3.7
1	DC	74	PHE	3.7
1	AG	65	TYR	3.7
1	AO	53	PHE	3.6
1	AX	92	ILE	3.6
1	CE	61	VAL	3.6
1	BE	53	PHE	3.6
1	AN	74	PHE	3.6
1	CT	76	ILE	3.6

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Mol	Chain	Res	Type	RSRZ
1	BK	65	TYR	3.6
1	BV	53	PHE	3.5
1	CE	88	ASN	3.5
1	AC	65	TYR	3.5
1	AU	35	LEU	3.5
1	DF	53	PHE	3.5
1	BH	88	ASN	3.5
1	CT	60	VAL	3.5
1	BH	60	VAL	3.5
1	DC	94	LEU	3.5
1	BQ	78	MET	3.5
1	BJ	62	ASN	3.5
1	CF	53	PHE	3.5
1	BF	53	PHE	3.4
1	AC	24	PHE	3.4
1	CS	76	ILE	3.4
1	BP	88	ASN	3.4
1	AH	53	PHE	3.4
1	CT	92	ILE	3.4
1	BH	53	PHE	3.4
1	DB	79	SER	3.4
1	DC	53	PHE	3.4
1	BV	92	ILE	3.4
1	CH	74	PHE	3.3
1	DE	125	TRP	3.3
1	CL	88	ASN	3.3
1	CX	62	ASN	3.3
1	BM	60	VAL	3.3
1	AA	65	TYR	3.3
1	CW	53	PHE	3.2
1	AQ	60	VAL	3.2
1	CW	115	LEU	3.2
1	AS	65	TYR	3.2
1	CD	60	VAL	3.2
1	CL	67	LYS	3.2
1	AF	92	ILE	3.2
1	AI	35	LEU	3.2
1	BY	60	VAL	3.2
1	BO	85	THR	3.2
1	CQ	53	PHE	3.2
1	AD	88	ASN	3.2
1	DB	65	TYR	3.2

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Mol	Chain	Res	Type	RSRZ
1	CT	65	TYR	3.1
1	DJ	65	TYR	3.1
1	DB	78	MET	3.1
1	DB	55	SER	3.1
1	CW	35	LEU	3.1
1	DE	131	ALA	3.1
1	CC	65	TYR	3.1
1	CG	94	LEU	3.1
1	BH	64	ASN	3.0
1	BL	24	PHE	3.0
1	CR	65	TYR	3.0
1	CL	96	ILE	3.0
1	DB	88	ASN	3.0
1	BR	85	THR	3.0
1	DF	131	ALA	3.0
1	CS	74	PHE	3.0
1	CL	66	SER	3.0
1	BG	53	PHE	3.0
1	BF	131	ALA	3.0
1	BH	16	ILE	3.0
1	BI	74	PHE	3.0
1	CW	54	LYS	3.0
1	AT	88	ASN	3.0
1	CZ	53	PHE	3.0
1	DH	74	PHE	3.0
1	DC	86	VAL	2.9
1	AO	92	ILE	2.9
1	BS	65	TYR	2.9
1	BO	87	PHE	2.9
1	CD	74	PHE	2.9
1	BA	131	ALA	2.9
1	CV	131	ALA	2.9
1	AU	52	THR	2.9
1	AZ	85	THR	2.9
1	CE	53	PHE	2.9
1	CA	65	TYR	2.9
1	DC	51	ALA	2.9
1	AV	92	ILE	2.9
1	CJ	74	PHE	2.9
1	CW	65	TYR	2.9
1	AF	90	VAL	2.8
1	BJ	74	PHE	2.8

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Mol	Chain	Res	Type	RSRZ
1	CW	8	LYS	2.8
1	CK	85	THR	2.8
1	AU	131	ALA	2.8
1	DD	63	GLY	2.8
1	DF	35	LEU	2.8
1	BG	74	PHE	2.8
1	CE	60	VAL	2.8
1	CZ	24	PHE	2.8
1	BP	129	ALA	2.8
1	BZ	65	TYR	2.8
1	AC	94	LEU	2.8
1	CW	40	SER	2.8
1	BR	24	PHE	2.8
1	BK	63	GLY	2.8
1	AC	53	PHE	2.8
1	CZ	92	ILE	2.8
1	CK	62	ASN	2.8
1	BP	89	SER	2.8
1	DG	88	ASN	2.8
1	BA	109	ARG	2.8
1	BE	8	LYS	2.8
1	BM	129	ALA	2.8
1	BZ	108	LEU	2.8
1	AD	87	PHE	2.8
1	BX	60	VAL	2.8
1	BQ	67	LYS	2.7
1	AD	27	THR	2.7
1	BJ	85	THR	2.7
1	BH	63	GLY	2.7
1	BG	62	ASN	2.7
1	CP	53	PHE	2.7
1	BJ	61	VAL	2.7
1	BQ	77	PRO	2.7
1	CF	24	PHE	2.7
1	AW	88	ASN	2.7
1	CK	53	PHE	2.7
1	AH	92	ILE	2.7
1	DA	65	TYR	2.7
1	AO	94	LEU	2.7
1	AI	40	SER	2.7
1	DB	60	VAL	2.7
1	CW	121	TYR	2.7

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Mol	Chain	Res	Type	RSRZ
1	AK	80	LEU	2.7
1	AT	78	MET	2.7
1	BA	40	SER	2.7
1	BE	24	PHE	2.7
1	CB	53	PHE	2.7
1	DH	24	PHE	2.7
1	CO	65	TYR	2.6
1	AR	65	TYR	2.6
1	BG	92	ILE	2.6
1	BM	65	TYR	2.6
1	CJ	92	ILE	2.6
1	CU	65	TYR	2.6
1	DC	92	ILE	2.6
1	BJ	53	PHE	2.6
1	BZ	24	PHE	2.6
1	CR	94	LEU	2.6
1	DD	94	LEU	2.6
1	BP	74	PHE	2.6
1	CI	92	ILE	2.6
1	AF	129	ALA	2.6
1	DA	24	PHE	2.6
1	AR	60	VAL	2.6
1	DD	60	VAL	2.6
1	DF	65	TYR	2.6
1	AK	88	ASN	2.6
1	BN	64	ASN	2.6
1	CL	97	HIS	2.6
1	BT	92	ILE	2.6
1	CX	65	TYR	2.6
1	BN	65	TYR	2.6
1	DE	126	THR	2.6
1	BD	53	PHE	2.6
1	CW	92	ILE	2.6
1	BG	24	PHE	2.5
1	AC	96	ILE	2.5
1	AR	131	ALA	2.5
1	AN	100	LEU	2.5
1	DI	74	PHE	2.5
1	DC	85	THR	2.5
1	BW	86	VAL	2.5
1	CU	24	PHE	2.5
1	BG	90	VAL	2.5

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Mol	Chain	Res	Type	RSRZ
1	CG	79	SER	2.5
1	BF	71	GLU	2.5
1	CA	60	VAL	2.5
1	CV	24	PHE	2.5
1	BM	61	VAL	2.5
1	BG	78	MET	2.5
1	BK	92	ILE	2.5
1	AX	53	PHE	2.5
1	CV	88	ASN	2.5
1	CT	61	VAL	2.5
1	DD	21	ASP	2.5
1	BM	53	PHE	2.5
1	DB	85	THR	2.5
1	BG	72	VAL	2.5
1	CR	63	GLY	2.5
1	CF	1	SER	2.5
1	DF	74	PHE	2.5
1	AP	53	PHE	2.5
1	CI	74	PHE	2.5
1	CL	74	PHE	2.5
1	AI	37	VAL	2.5
1	BE	26	LEU	2.5
1	BP	53	PHE	2.5
1	BH	92	ILE	2.5
1	AE	55	SER	2.5
1	CM	78	MET	2.4
1	CB	60	VAL	2.4
1	BW	121	TYR	2.4
1	BP	92	ILE	2.4
1	BV	90	VAL	2.4
1	CQ	74	PHE	2.4
1	BP	65	TYR	2.4
1	AI	2	ILE	2.4
1	CK	92	ILE	2.4
1	AD	86	VAL	2.4
1	DF	37	VAL	2.4
1	BQ	65	TYR	2.4
1	CT	53	PHE	2.4
1	AG	88	ASN	2.4
1	AG	92	ILE	2.4
1	BA	130	LEU	2.4
1	CT	72	VAL	2.4

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Mol	Chain	Res	Type	RSRZ
1	CK	125	TRP	2.4
1	CF	54	LYS	2.4
1	CT	40	SER	2.4
1	AG	76	ILE	2.4
1	BO	76	ILE	2.4
1	AA	53	PHE	2.4
1	DK	74	PHE	2.4
1	BX	51	ALA	2.4
1	BW	78	MET	2.4
1	CM	88	ASN	2.4
1	DG	94	LEU	2.4
1	BB	96	ILE	2.4
1	BV	72	VAL	2.4
1	CK	94	LEU	2.4
1	AT	24	PHE	2.4
1	BJ	59	THR	2.4
1	CH	24	PHE	2.4
1	CI	35	LEU	2.4
1	AJ	88	ASN	2.4
1	BZ	45	TYR	2.4
1	CM	94	LEU	2.4
1	AQ	24	PHE	2.4
1	CM	24	PHE	2.4
1	BF	65	TYR	2.4
1	AX	72	VAL	2.4
1	CW	72	VAL	2.4
1	AE	74	PHE	2.4
1	BE	74	PHE	2.4
1	AI	23	THR	2.4
1	BK	62	ASN	2.4
1	BZ	16	ILE	2.4
1	CC	94	LEU	2.4
1	AJ	60	VAL	2.3
1	CR	53	PHE	2.3
1	AO	51	ALA	2.3
1	BK	14	ALA	2.3
1	AP	62	ASN	2.3
1	AU	130	LEU	2.3
1	BM	35	LEU	2.3
1	BQ	45	TYR	2.3
1	CB	129	ALA	2.3
1	CF	100	LEU	2.3

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Mol	Chain	Res	Type	RSRZ
1	AU	92	ILE	2.3
1	BA	2	ILE	2.3
1	AW	74	PHE	2.3
1	BF	74	PHE	2.3
1	BJ	60	VAL	2.3
1	CY	78	MET	2.3
1	CG	88	ASN	2.3
1	DJ	110	LEU	2.3
1	AC	54	LYS	2.3
1	BE	45	TYR	2.3
1	BJ	24	PHE	2.3
1	BS	61	VAL	2.3
1	AG	53	PHE	2.3
1	CP	74	PHE	2.3
1	DF	60	VAL	2.3
1	BM	64	ASN	2.3
1	BS	59	THR	2.3
1	CB	88	ASN	2.3
1	CH	49	ARG	2.3
1	CR	96	ILE	2.3
1	AE	87	PHE	2.3
1	AN	65	TYR	2.3
1	BM	24	PHE	2.3
1	CN	53	PHE	2.3
1	DB	84	GLU	2.3
1	CT	59	THR	2.3
1	DI	35	LEU	2.3
1	BE	38	SER	2.3
1	CI	53	PHE	2.3
1	DL	53	PHE	2.3
1	BW	80	LEU	2.2
1	CH	130	LEU	2.2
1	BO	86	VAL	2.2
1	AO	70	ASN	2.2
1	AU	27	THR	2.2
1	BO	88	ASN	2.2
1	BK	53	PHE	2.2
1	CA	85	THR	2.2
1	CP	24	PHE	2.2
1	CZ	74	PHE	2.2
1	CD	63	GLY	2.2
1	DH	125	TRP	2.2

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Mol	Chain	Res	Type	RSRZ
1	AH	74	PHE	2.2
1	AW	92	ILE	2.2
1	BM	74	PHE	2.2
1	CE	74	PHE	2.2
1	DD	53	PHE	2.2
1	BM	37	VAL	2.2
1	CC	45	TYR	2.2
1	DC	129	ALA	2.2
1	AU	62	ASN	2.2
1	BP	60	VAL	2.2
1	CB	16	ILE	2.2
1	AZ	83	GLY	2.2
1	DG	65	TYR	2.2
1	AX	35	LEU	2.2
1	CW	94	LEU	2.2
1	AA	24	PHE	2.2
1	DL	61	VAL	2.2
1	AC	58	PRO	2.2
1	AG	45	TYR	2.2
1	CK	74	PHE	2.2
1	CC	67	LYS	2.2
1	CE	24	PHE	2.2
1	AC	22	ILE	2.2
1	AI	51	ALA	2.2
1	AA	26	LEU	2.2
1	AU	94	LEU	2.2
1	AW	24	PHE	2.2
1	BQ	61	VAL	2.2
1	DD	69	LYS	2.2
1	CL	64	ASN	2.2
1	CG	16	ILE	2.2
1	DD	111	ILE	2.2
1	BE	51	ALA	2.2
1	BP	62	ASN	2.2
1	DD	70	ASN	2.2
1	AK	77	PRO	2.2
1	BU	53	PHE	2.2
1	CU	92	ILE	2.2
1	CW	61	VAL	2.2
1	DC	72	VAL	2.2
1	AF	88	ASN	2.2
1	BE	63	GLY	2.2

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Mol	Chain	Res	Type	RSRZ
1	CT	62	ASN	2.2
1	CE	131	ALA	2.1
1	DI	51	ALA	2.1
1	AF	74	PHE	2.1
1	AJ	65	TYR	2.1
1	BL	85	THR	2.1
1	AR	92	ILE	2.1
1	CE	86	VAL	2.1
1	DC	35	LEU	2.1
1	BV	62	ASN	2.1
1	CD	65	TYR	2.1
1	AI	24	PHE	2.1
1	AL	53	PHE	2.1
1	BF	76	ILE	2.1
1	BM	29	GLN	2.1
1	CV	60	VAL	2.1
1	BV	40	SER	2.1
1	BJ	94	LEU	2.1
1	AZ	24	PHE	2.1
1	BT	88	ASN	2.1
1	BV	74	PHE	2.1
1	BX	53	PHE	2.1
1	DC	18	GLY	2.1
1	BV	54	LYS	2.1
1	DF	85	THR	2.1
1	BW	65	TYR	2.1
1	BD	90	VAL	2.1
1	DI	71	GLU	2.1
1	CG	85	THR	2.1
1	DK	33	ASN	2.1
1	BI	115	LEU	2.1
1	BZ	110	LEU	2.1
1	CV	74	PHE	2.1
1	AX	80	LEU	2.1
1	DC	52	THR	2.1
1	AD	77	PRO	2.1
1	CT	74	PHE	2.1
1	BV	94	LEU	2.1
1	CX	63	GLY	2.1
1	BS	64	ASN	2.1
1	BT	74	PHE	2.1
1	CO	53	PHE	2.1

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Mol	Chain	Res	Type	RSRZ
1	CW	62	ASN	2.1
1	BK	121	TYR	2.1
1	CS	77	PRO	2.1
1	CH	131	ALA	2.1
1	AB	46	ARG	2.1
1	AY	92	ILE	2.1
1	BD	92	ILE	2.1
1	CK	72	VAL	2.1
1	CL	61	VAL	2.1
1	CI	115	LEU	2.1
1	DF	130	LEU	2.1
1	AI	74	PHE	2.1
1	BB	53	PHE	2.1
1	BI	53	PHE	2.1
1	CT	87	PHE	2.1
1	AM	65	TYR	2.1
1	CT	90	VAL	2.1
1	BS	92	ILE	2.1
1	DD	62	ASN	2.1
1	BK	61	VAL	2.1
1	CL	60	VAL	2.1
1	CT	86	VAL	2.1
1	DF	25	ALA	2.1
1	BF	24	PHE	2.0
1	BU	125	TRP	2.0
1	BJ	65	TYR	2.0
1	BH	85	THR	2.0
1	BZ	113	ALA	2.0
1	CG	60	VAL	2.0
1	DI	92	ILE	2.0
1	CW	55	SER	2.0
1	BC	37	VAL	2.0
1	BH	37	VAL	2.0
1	DJ	74	PHE	2.0
1	AQ	121	TYR	2.0
1	BR	86	VAL	2.0
1	BV	65	TYR	2.0
1	BL	63	GLY	2.0
1	BN	8	LYS	2.0
1	CR	92	ILE	2.0
1	DL	94	LEU	2.0
1	BQ	74	PHE	2.0

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Mol	Chain	Res	Type	RSRZ
1	AH	72	VAL	2.0
1	CU	45	TYR	2.0
1	BK	74	PHE	2.0
1	BT	53	PHE	2.0
1	CX	74	PHE	2.0
1	DH	98	PRO	2.0
1	CI	90	VAL	2.0
1	BA	92	ILE	2.0
1	BT	94	LEU	2.0
1	AB	74	PHE	2.0
1	AC	74	PHE	2.0
1	CA	74	PHE	2.0
1	CQ	54	LYS	2.0
1	BV	35	LEU	2.0
1	DA	94	LEU	2.0

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

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

6.3 Carbohydrates

There are no monosaccharides in this entry.

6.4 Ligands

There are no ligands in this entry.

6.5 Other polymers

There are no such residues in this entry.