Full wwPDB X-ray Structure Validation Report ⓘ

Jun 24, 2024 – 05:11 PM EDT

PDB ID	:	6YFB
Title	:	Virus-like particle of bacteriophage AVE016
Authors	:	Rumnieks, J.; Kalnins, G.; Sisovs, M.; Lieknina, I.; Tars, K.
Deposited on	:	2020-03-26
Resolution	:	3.59 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/XrayValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

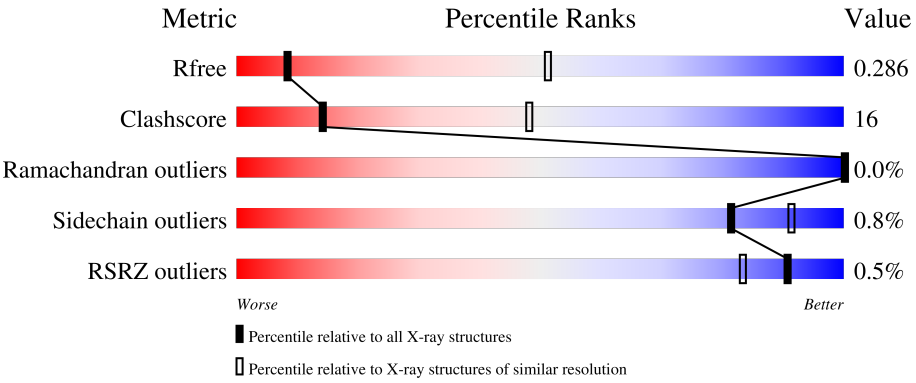
MolProbity	:	4.02b-467
Xtriage (Phenix)	:	1.20.1
EDS	:	2.37.1
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.37.1

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 3.59 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	1257 (3.70-3.50)
Clashscore	141614	1353 (3.70-3.50)
Ramachandran outliers	138981	1307 (3.70-3.50)
Sidechain outliers	138945	1307 (3.70-3.50)
RSRZ outliers	127900	1161 (3.70-3.50)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=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	166	% 65% 34% .
1	AB	166	67% 33% .
1	AC	166	72% 28% .
1	AD	166	% 70% 30% .
1	AE	166	% 71% 28% .

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Mol	Chain	Length	Quality of chain
1	AF	166	72% 28%
1	AG	166	69% 30%
1	AH	166	69% 30%
1	AI	166	69% 31%
1	AJ	166	64% 35%
1	AK	166	69% 30%
1	AL	166	69% 29%
1	AM	166	62% 37%
1	AN	166	63% 37%
1	AO	166	66% 33%
1	AP	166	66% 34%
1	AQ	166	68% 32%
1	AR	166	73% 27%
1	AS	166	64% 36%
1	AT	166	67% 33%
1	AU	166	61% 37%
1	AV	166	63% 36%
1	AW	166	66% 33%
1	AX	166	71% 28%
1	AY	166	71% 28%
1	AZ	166	71% 28%
1	BA	166	71% 28%
1	BB	166	69% 31%
1	BC	166	70% 28%
1	BD	166	73% 27%

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Mol	Chain	Length	Quality of chain
1	BE	166	68% 31%
1	BF	166	70% 29%
1	BG	166	71% 28%
1	BH	166	% 63% 36%
1	BI	166	% 65% 35%
1	BJ	166	% 66% 33%
1	BK	166	2% 66% 34%
1	BL	166	% 69% 31%
1	BM	166	2% 71% 29%
1	BN	166	2% 65% 35%
1	BO	166	% 66% 33%
1	BP	166	62% 36%
1	BQ	166	64% 34%
1	BR	166	68% 31%
1	BS	166	71% 28%
1	BT	166	69% 30%
1	BU	166	69% 30%
1	BV	166	68% 31%
1	BW	166	70% 29%
1	BX	166	70% 28%
1	BY	166	% 72% 27%
1	BZ	166	67% 32%
1	CA	166	69% 30%
1	CB	166	69% 30%
1	CC	166	% 63% 36%

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Mol	Chain	Length	Quality of chain
1	CD	166	63% 37%
1	CE	166	64% 35%
1	CF	166	66% 34%
1	CG	166	67% 33%
1	CH	166	71% 29%
1	CI	166	64% 36%
1	CJ	166	65% 34%
1	CK	166	61% 38%
1	CL	166	63% 36%
1	CM	166	67% 33%
1	CN	166	70% 30%
1	CO	166	70% 29%
1	CP	166	72% 28%
1	CQ	166	70% 29%
1	CR	166	67% 32%
1	CS	166	69% 30%
1	CT	166	73% 26%
1	CU	166	67% 32%
1	CV	166	70% 29%
1	CW	166	70% 28%
1	CX	166	66% 33%
1	CY	166	64% 36%
1	CZ	166	66% 33%
1	DA	166	66% 34%
1	DB	166	69% 31%

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Mol	Chain	Length	Quality of chain
1	DC	166	70% 30%
1	DD	166	65% 35%
1	DE	166	66% 34%
1	DF	166	60% 38%
1	DG	166	63% 36%
1	DH	166	65% 34%
1	DI	166	69% 30%
1	DJ	166	70% 30%
1	DK	166	69% 31%
1	DL	166	72% 28%
1	DM	166	70% 30%
1	DN	166	69% 30%
1	DO	166	71% 28%
1	DP	166	67% 33%
1	DQ	166	69% 30%
1	DR	166	71% 27%
1	DS	166	64% 35%
1	DT	166	64% 36%
1	DU	166	66% 33%
1	DV	166	67% 33%
1	DW	166	68% 32%
1	DX	166	70% 30%
1	DY	166	64% 36%
1	DZ	166	67% 33%
1	EA	166	64% 34%

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Mol	Chain	Length	Quality of chain
1	EB	166	62% 37%
1	EC	166	68% 31%
1	ED	166	% 70% 30%
1	EE	166	71% 28%
1	EF	166	% 70% 30%
1	EG	166	70% 29%
1	EH	166	68% 31%
1	EI	166	70% 28%
1	EJ	166	72% 27%
1	EK	166	68% 31%
1	EL	166	% 69% 30%
1	EM	166	% 72% 27%
1	EN	166	% 61% 37%
1	EO	166	% 66% 34%
1	EP	166	% 67% 32%
1	EQ	166	% 66% 34%
1	ER	166	% 68% 32%
1	ES	166	70% 30%
1	ET	166	% 64% 36%
1	EU	166	% 64% 35%
1	EV	166	60% 38%
1	EW	166	% 63% 36%
1	EX	166	% 66% 33%
1	EY	166	% 70% 30%
1	EZ	166	% 71% 28%

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Mol	Chain	Length	Quality of chain
1	FA	166	70% 29%
1	FB	166	70% 29%
1	FC	166	72% 27%
1	FD	166	70% 29%
1	FE	166	72% 28%
1	FF	166	67% 33%
1	FG	166	70% 28%
1	FH	166	70% 29%
1	FI	166	% 63% 36%
1	FJ	166	2% 64% 36%
1	FK	166	% 66% 33%
1	FL	166	66% 34%
1	FM	166	2% 67% 33%
1	FN	166	% 70% 30%
1	FO	166	% 64% 36%
1	FP	166	% 68% 31%
1	FQ	166	61% 37%
1	FR	166	63% 36%
1	FS	166	% 67% 32%
1	FT	166	72% 28%
1	FU	166	% 70% 29%
1	FV	166	% 72% 28%
1	FW	166	70% 29%
1	FX	166	70% 30%
1	FY	166	% 69% 30%

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Mol	Chain	Length	Quality of chain
1	FZ	166	70% 29%
1	GA	166	67% 31%
1	GB	166	70% 28%
1	GC	166	% 72% 27%
1	GD	166	% 64% 35%
1	GE	166	64% 36%
1	GF	166	% 66% 33%
1	GG	166	2% 67% 33%
1	GH	166	% 69% 31%
1	GI	166	72% 28%
1	GJ	166	% 64% 36%
1	GK	166	% 69% 30%
1	GL	166	% 62% 36%
1	GM	166	% 64% 34%
1	GN	166	% 67% 32%
1	GO	166	72% 28%
1	GP	166	% 70% 29%
1	GQ	166	% 72% 27%
1	GR	166	70% 30%
1	GS	166	68% 31%
1	GT	166	% 70% 29%
1	GU	166	71% 28%
1	GV	166	66% 34%
1	GW	166	% 70% 29%
1	GX	166	70% 28%

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Mol	Chain	Length	Quality of chain
1	GY	166	64% 35%
1	GZ	166	64% 36%
1	HA	166	65% 34%
1	HB	166	66% 34%
1	HC	166	69% 31%
1	HD	166	72% 28%
1	HE	166	65% 35%
1	HF	166	69% 31%
1	HG	166	58% 40%
1	HH	166	62% 37%
1	HI	166	66% 34%
1	HJ	166	70% 29%
1	HK	166	71% 28%
1	HL	166	70% 30%
1	HM	166	70% 30%
1	HN	166	70% 29%
1	HO	166	69% 30%
1	HP	166	73% 27%
1	HQ	166	67% 32%
1	HR	166	69% 30%
1	HS	166	70% 29%
1	HT	166	64% 35%
1	HU	166	65% 35%
1	HV	166	66% 33%
1	HW	166	67% 33%

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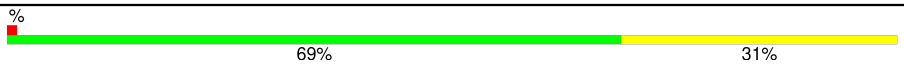
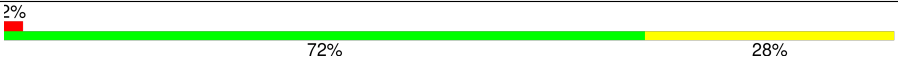
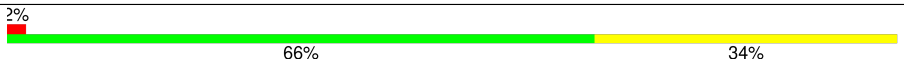
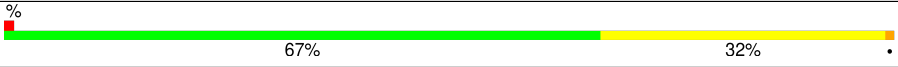
Mol	Chain	Length	Quality of chain
1	HX	166	
1	HY	166	
1	HZ	166	
1	IA	166	
1	IB	166	

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 275100 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	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	AB	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	AC	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	AD	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	AE	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	AF	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	AG	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	AH	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	AI	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	AJ	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	AK	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	AL	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	AM	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	AN	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	AO	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	AP	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	AQ	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	AR	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	AS	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	AT	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	AU	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	AV	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	AW	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	AX	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	AY	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	AZ	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	BA	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	BB	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	BC	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	BD	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	BE	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	BF	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	BG	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	BH	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	BI	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	BJ	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	BK	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	BL	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	BM	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	BN	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	BO	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	BP	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	BQ	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	BR	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	BS	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	BT	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	BU	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	BV	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	BW	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	BX	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	BY	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	BZ	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	CA	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	CB	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	CC	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	CD	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	CE	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	CF	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	CG	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	CH	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	CI	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	CJ	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	CK	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	CL	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	CM	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	CN	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	CO	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	CP	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	CQ	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	CR	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	CS	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	CT	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	CU	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	CV	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	CW	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	CX	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	CY	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	CZ	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	DA	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	DB	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	DC	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	DD	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	DE	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	DF	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	DG	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	DH	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	DI	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	DJ	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	DK	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	DL	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	DM	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	DN	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	DO	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	DP	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	DQ	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	DR	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	DS	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	DT	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	DU	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	DV	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	DW	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	DX	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	DY	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	DZ	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	EA	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	EB	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	EC	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	ED	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	EE	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	EF	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	EG	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	EH	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	EI	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	EJ	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	EK	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	EL	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	EM	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	EN	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	EO	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	EP	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	EQ	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	ER	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	ES	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	ET	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	EU	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	EV	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	EW	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	EX	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	EY	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	EZ	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	FA	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	FB	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	FC	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	FD	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	FE	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	FF	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	FG	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	FH	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	FI	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	FJ	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	FK	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	FL	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	FM	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	FN	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	FO	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	FP	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	FQ	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	FR	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	FS	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	FT	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	FU	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	FV	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	FW	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	FX	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	FY	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	FZ	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	GA	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	GB	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	GC	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	GD	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	GE	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	GF	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	GG	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	GH	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	GI	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	GJ	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	GK	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	GL	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	GM	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	GN	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	GO	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	GP	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	GQ	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	GR	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	GS	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	GT	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	GU	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	GV	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	GW	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	GX	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	GY	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	GZ	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	HA	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	HB	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	HC	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	HD	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	HE	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	HF	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	HG	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	HH	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	HI	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	HJ	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	HK	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	HL	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	HM	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	HN	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	HO	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	HP	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	HQ	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	HR	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	HS	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	HT	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	HU	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	HV	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	HW	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			

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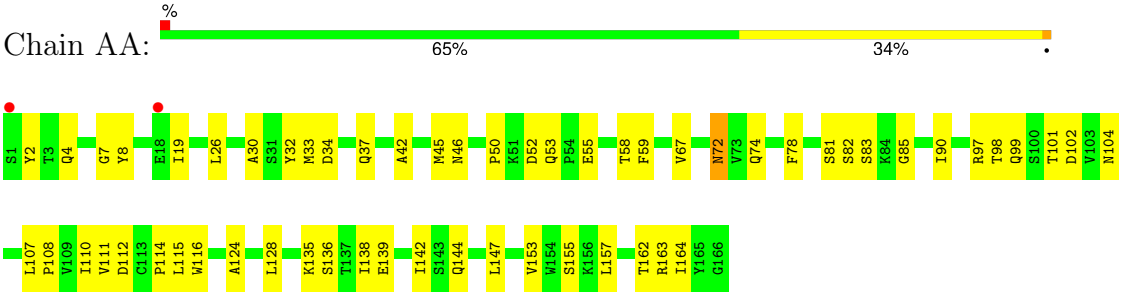
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	HX	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	HY	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	HZ	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	IA	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			
1	IB	166	Total	C	N	O	S	0	0	0
			1310	828	215	262	5			

3 Residue-property plots (i)

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

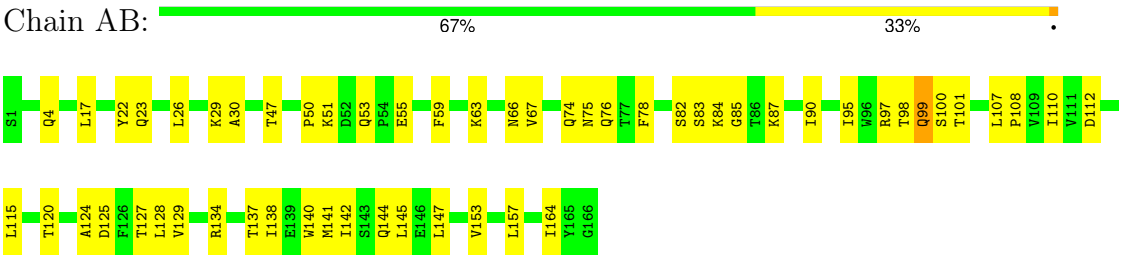
• Molecule 1: coat protein

Chain AA:



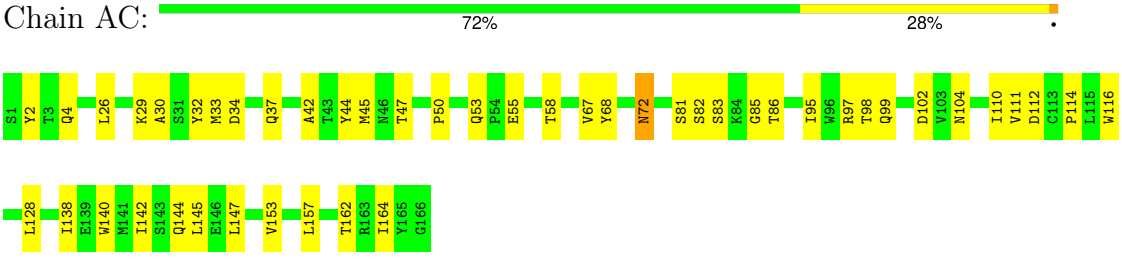
• Molecule 1: coat protein

Chain AB:



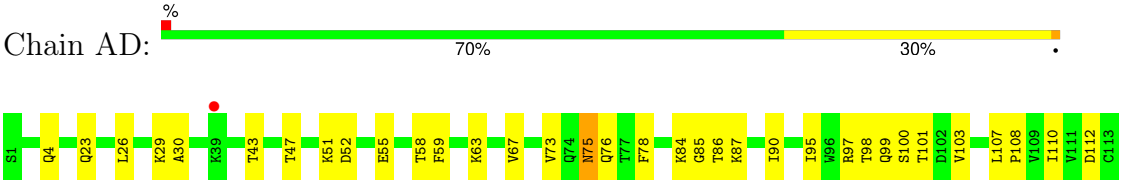
• Molecule 1: coat protein

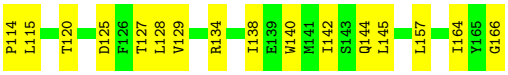
Chain AC:



• Molecule 1: coat protein

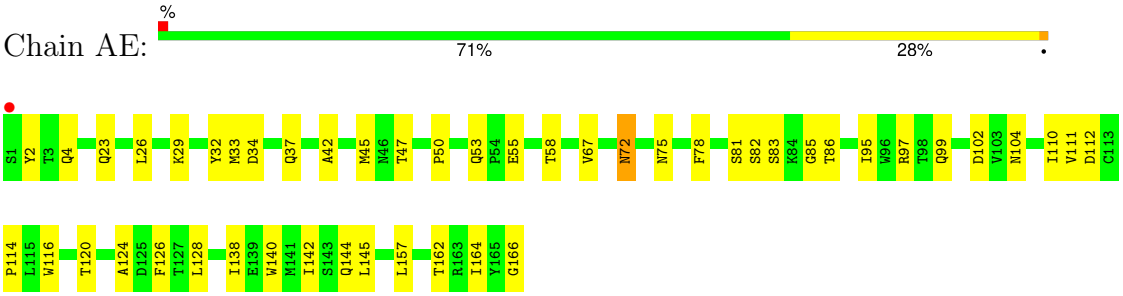
Chain AD:





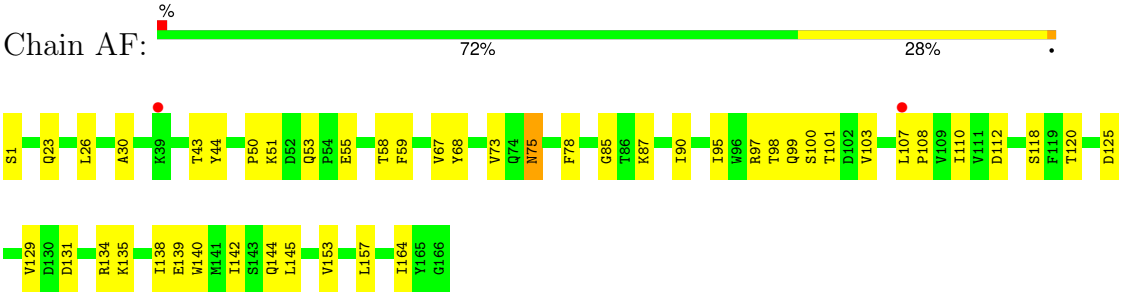
• Molecule 1: coat protein

Chain AE:



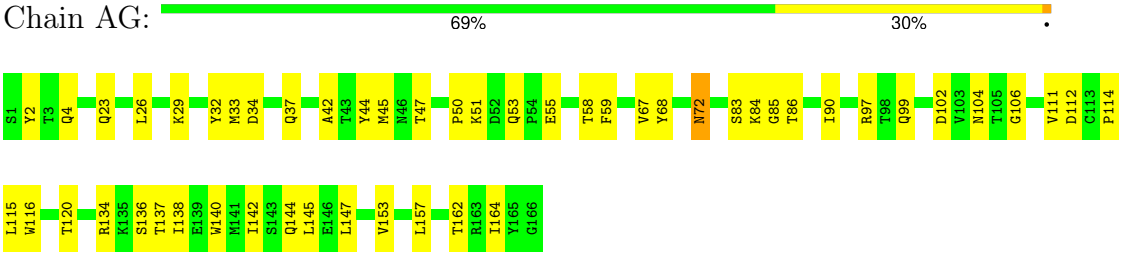
• Molecule 1: coat protein

Chain AF:



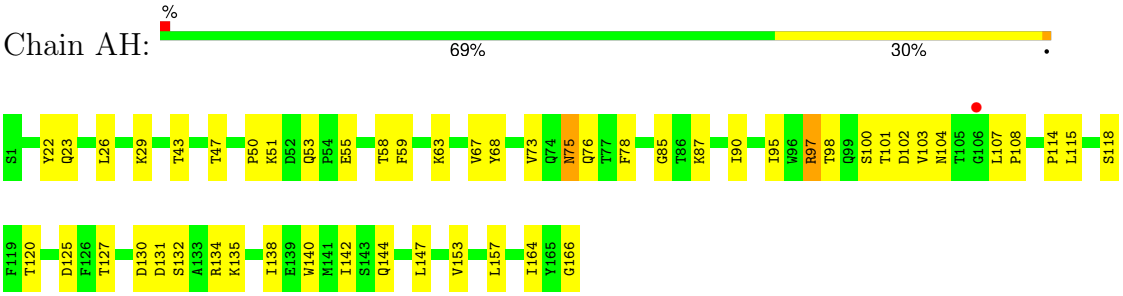
• Molecule 1: coat protein

Chain AG:



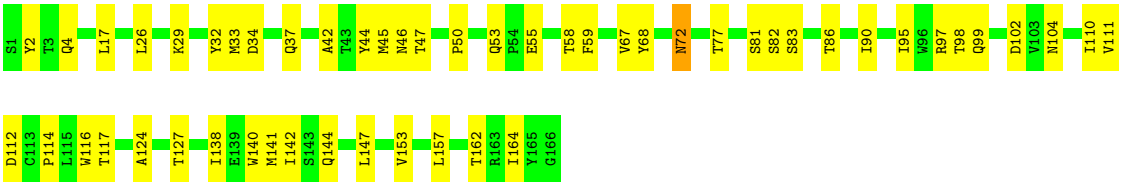
• Molecule 1: coat protein

Chain AH:



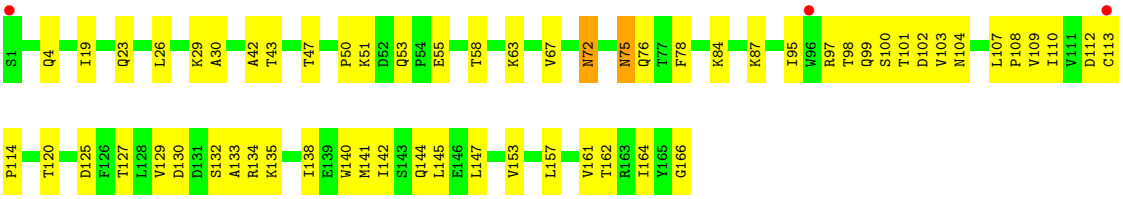
• Molecule 1: coat protein

Chain AI:



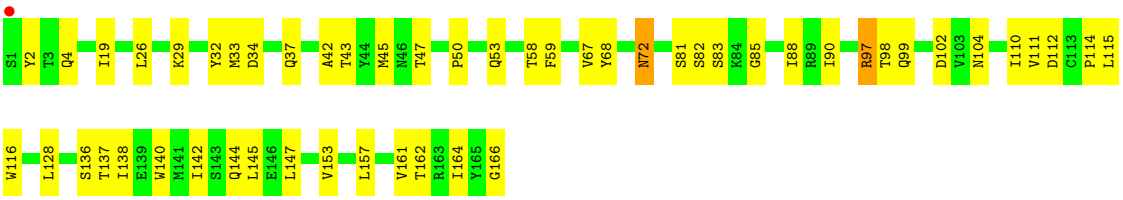
• Molecule 1: coat protein

Chain AJ:



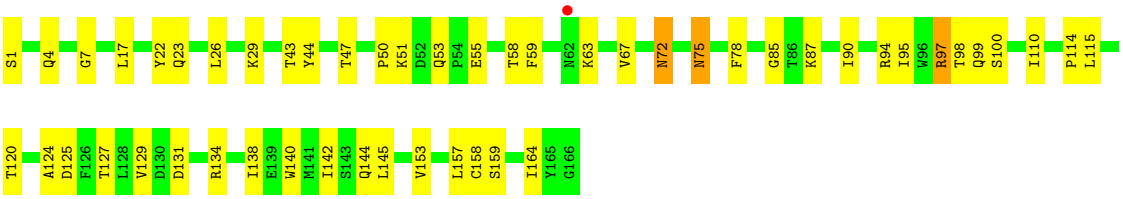
• Molecule 1: coat protein

Chain AK:



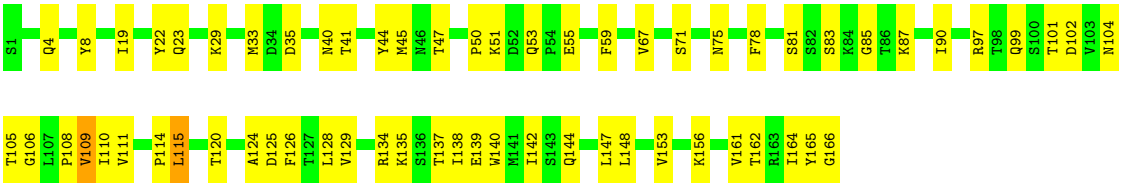
• Molecule 1: coat protein

Chain AL:



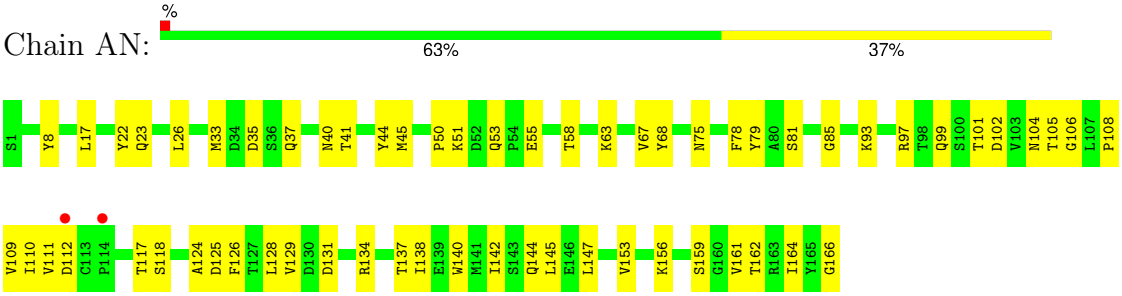
• Molecule 1: coat protein

Chain AM:



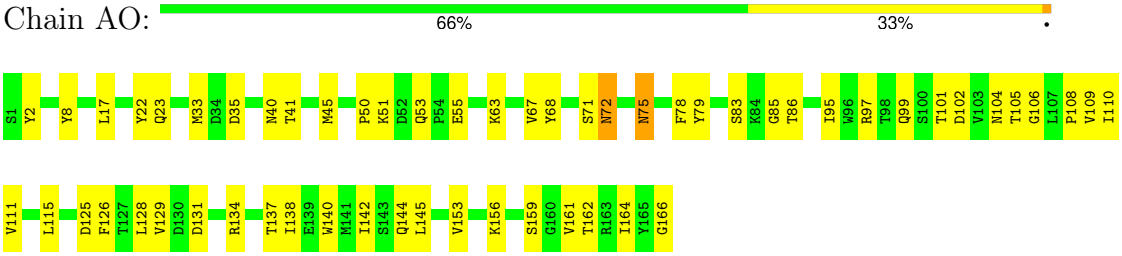
• Molecule 1: coat protein

Chain AN:



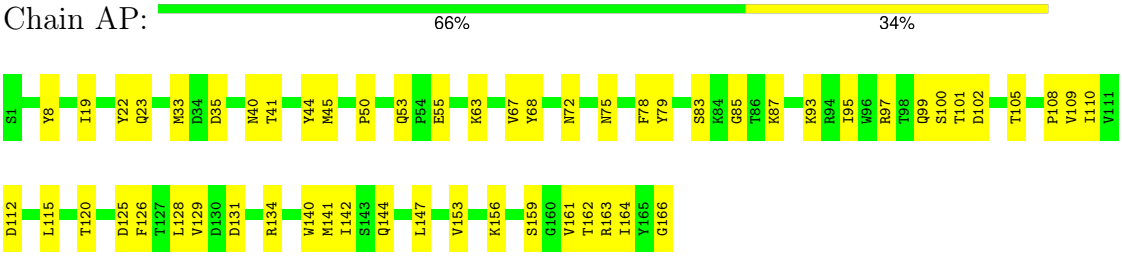
- Molecule 1: coat protein

Chain AO:



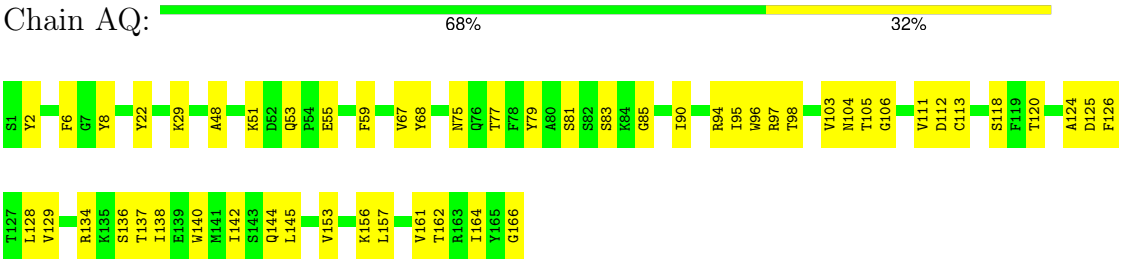
- Molecule 1: coat protein

Chain AP:



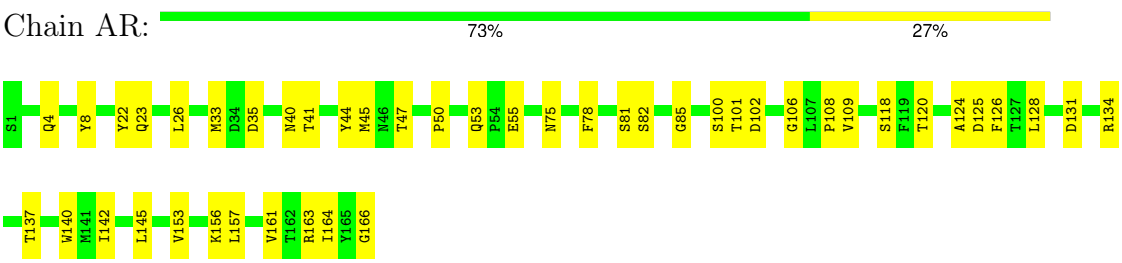
- Molecule 1: coat protein

Chain AQ:



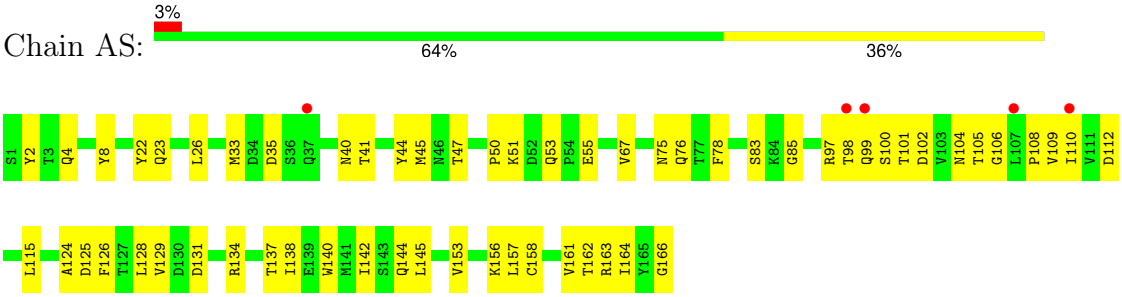
- Molecule 1: coat protein

Chain AR:



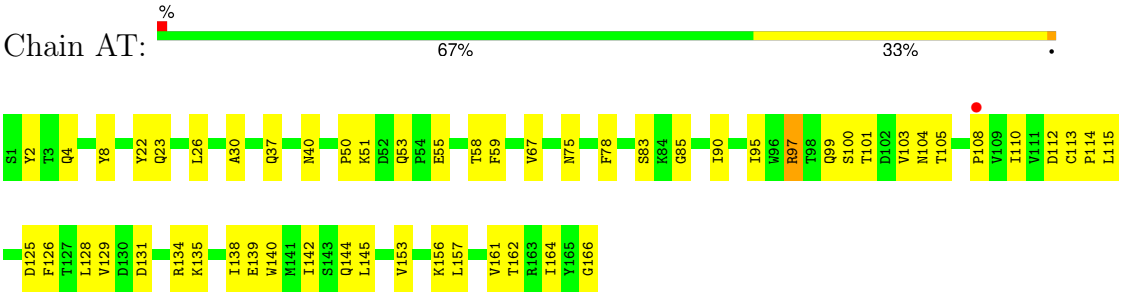
• Molecule 1: coat protein

Chain AS:



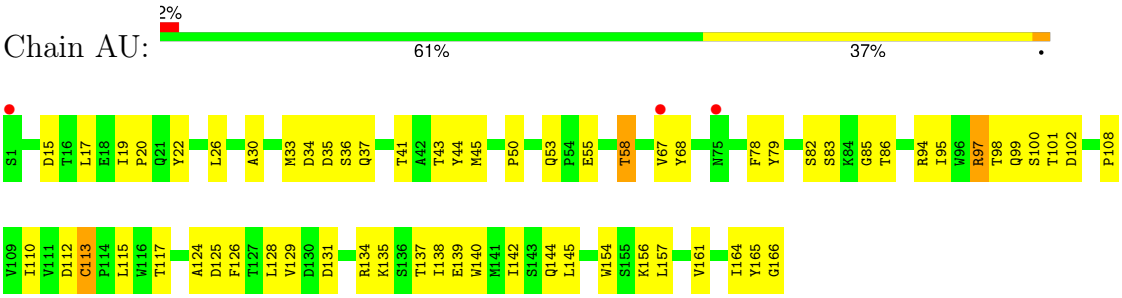
• Molecule 1: coat protein

Chain AT:



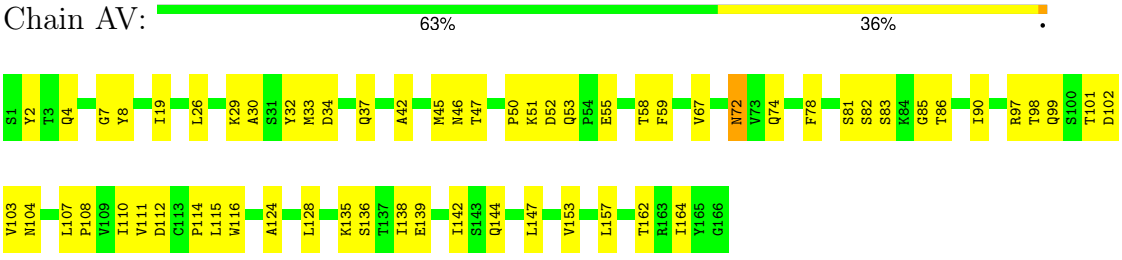
• Molecule 1: coat protein

Chain AU:



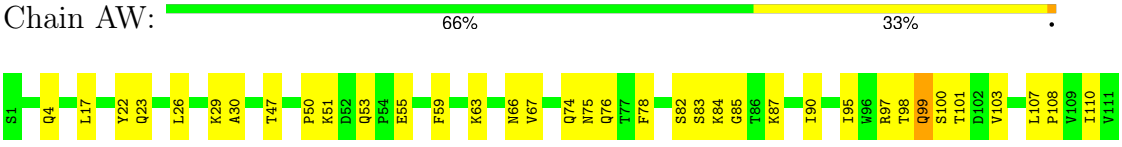
• Molecule 1: coat protein

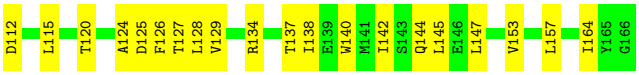
Chain AV:



• Molecule 1: coat protein

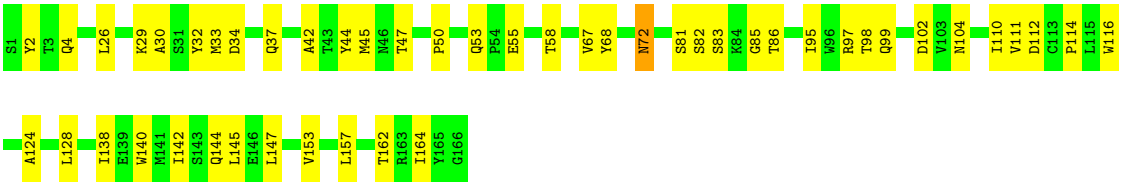
Chain AW:





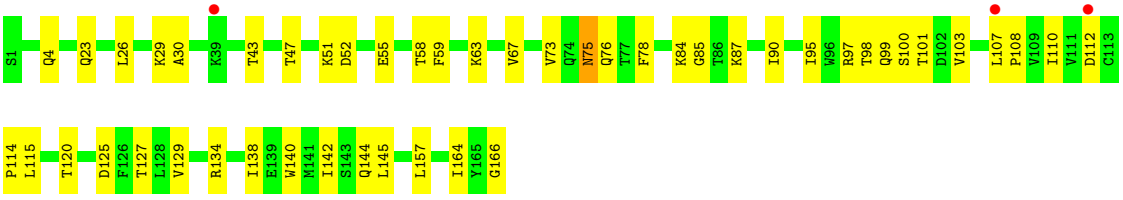
• Molecule 1: coat protein

Chain AX:



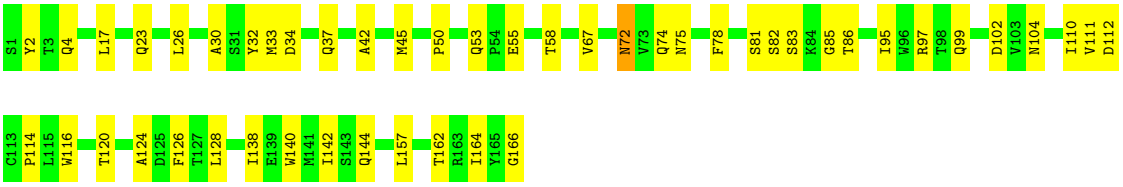
• Molecule 1: coat protein

Chain AY:



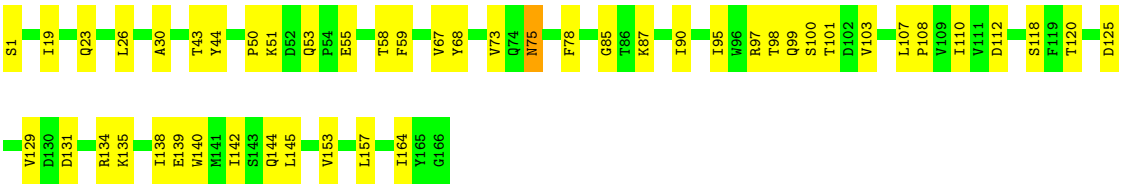
• Molecule 1: coat protein

Chain AZ:



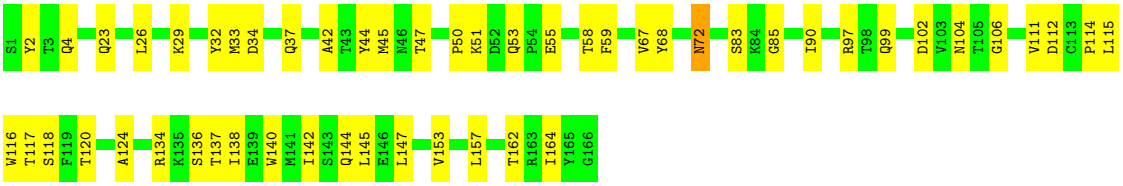
• Molecule 1: coat protein

Chain BA:



• Molecule 1: coat protein

Chain BB:

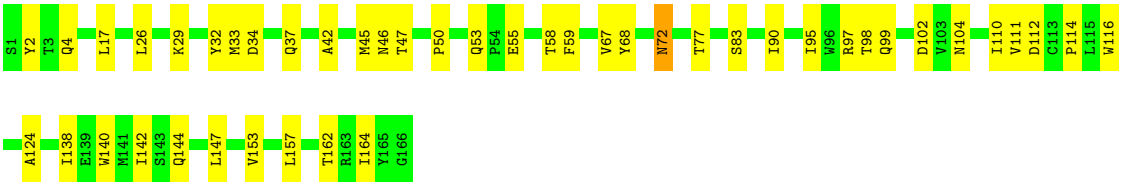


• Molecule 1: coat protein

Chain BC:

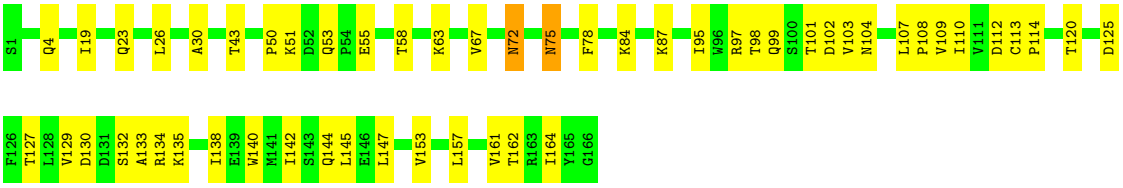
• Molecule 1: coat protein

Chain BD:



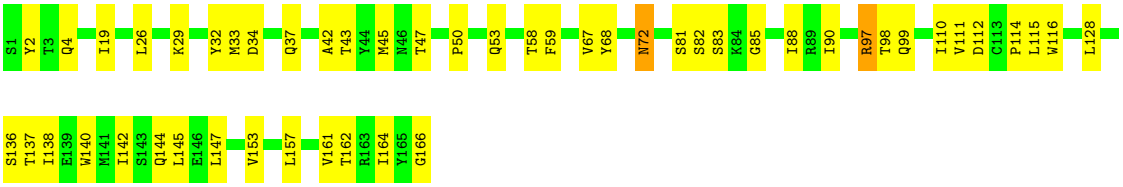
• Molecule 1: coat protein

Chain BE:



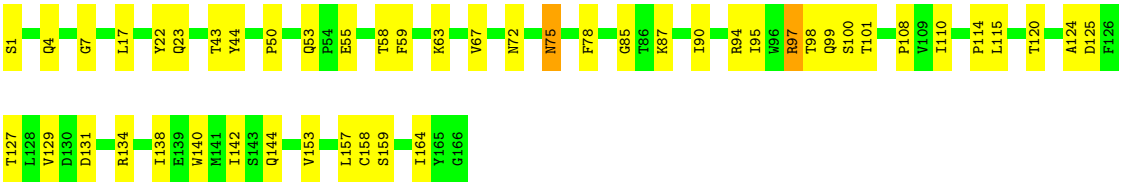
• Molecule 1: coat protein

Chain BF:



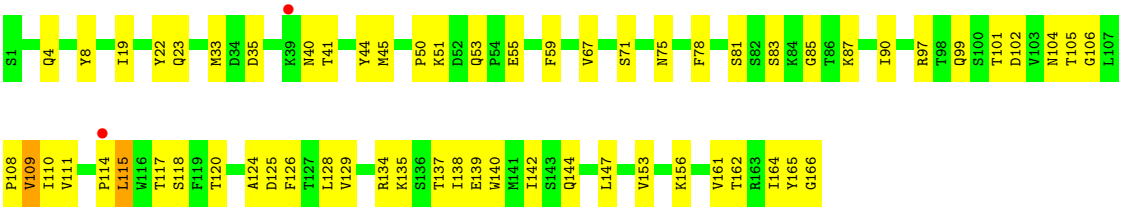
• Molecule 1: coat protein

Chain BG:



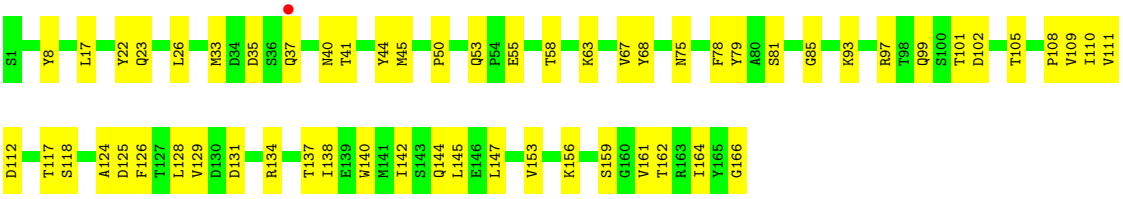
• Molecule 1: coat protein

Chain BH:



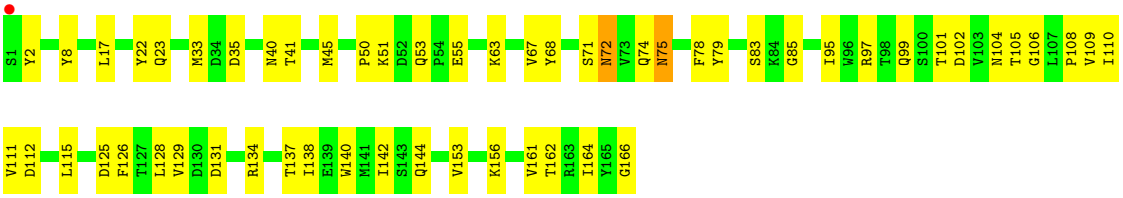
• Molecule 1: coat protein

Chain BI:



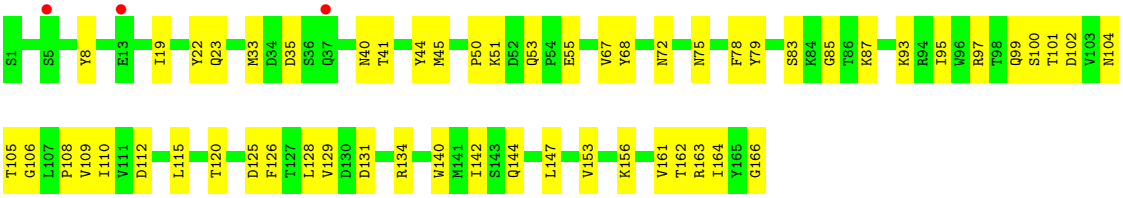
• Molecule 1: coat protein

Chain BJ:



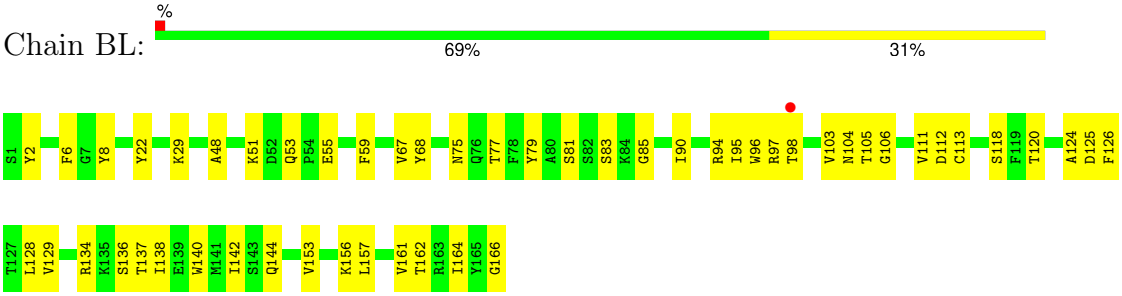
• Molecule 1: coat protein

Chain BK:



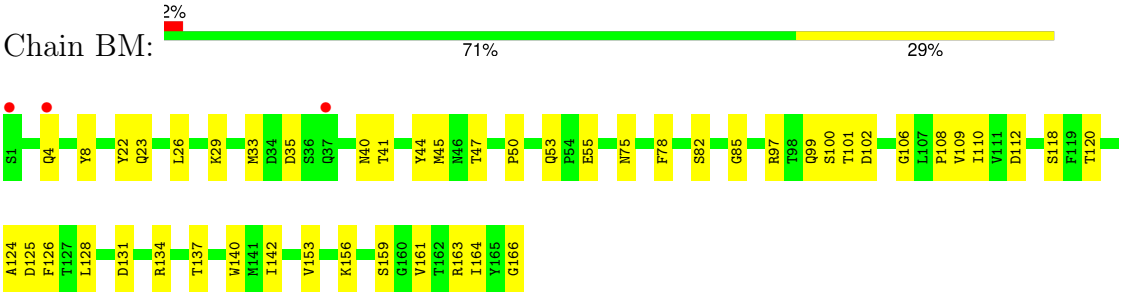
• Molecule 1: coat protein

Chain BL:



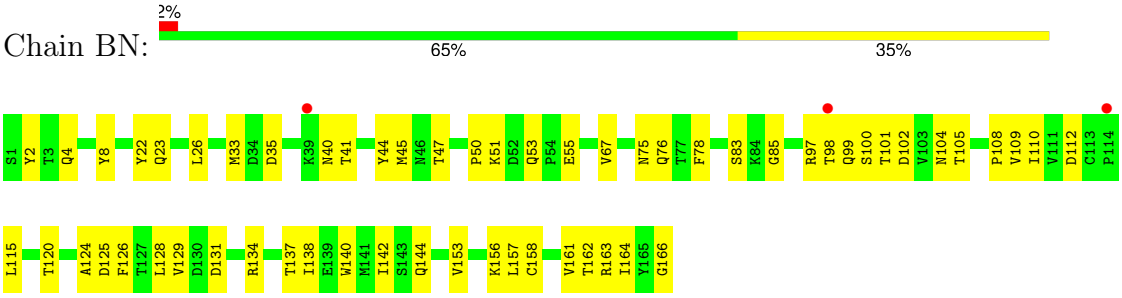
• Molecule 1: coat protein

Chain BM:



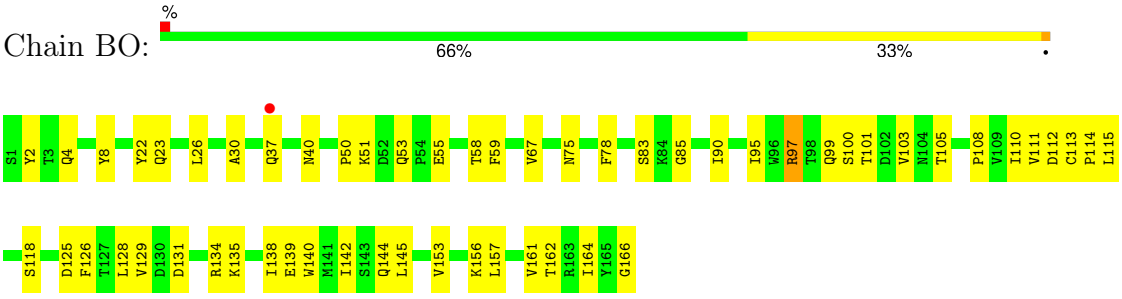
• Molecule 1: coat protein

Chain BN:



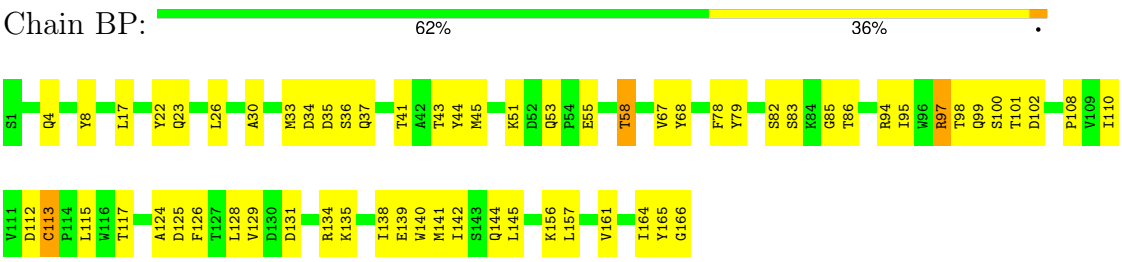
• Molecule 1: coat protein

Chain BO:



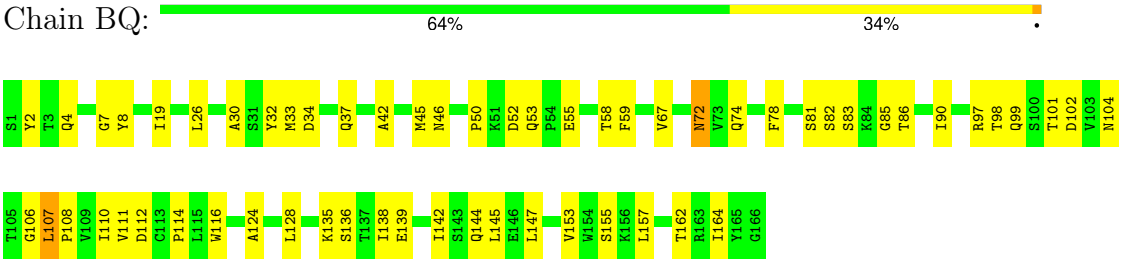
• Molecule 1: coat protein

Chain BP:



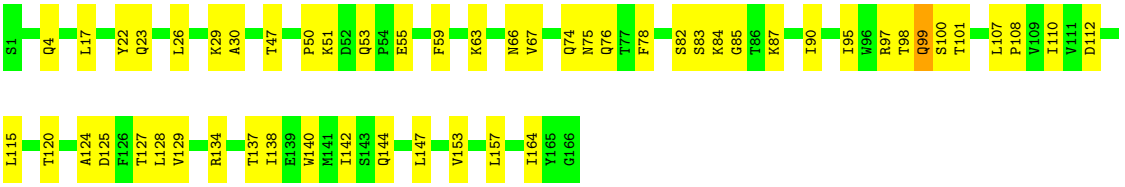
• Molecule 1: coat protein

Chain BQ:



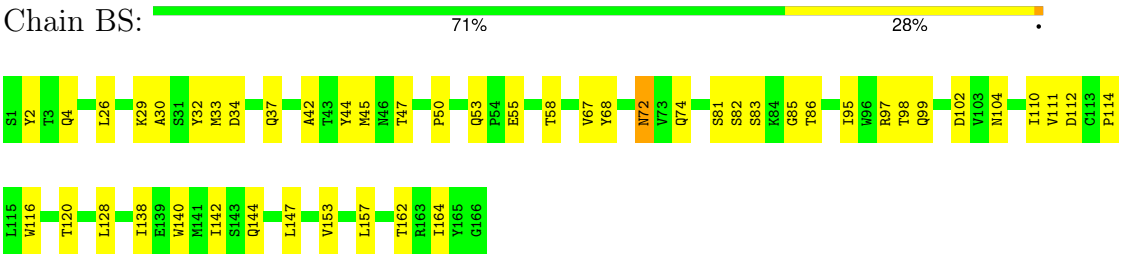
• Molecule 1: coat protein

Chain BR:



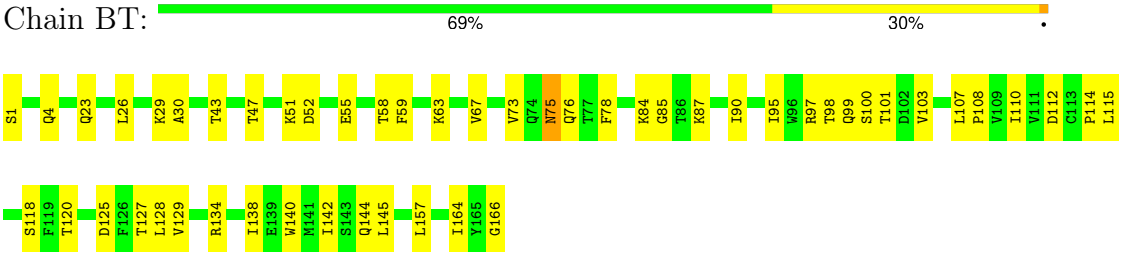
• Molecule 1: coat protein

Chain BS:



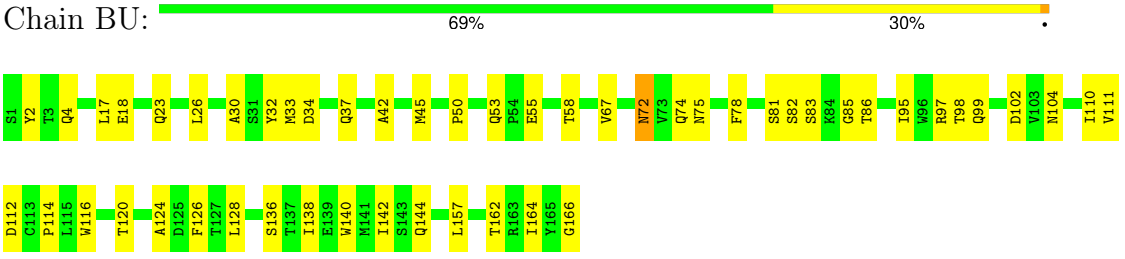
• Molecule 1: coat protein

Chain BT:



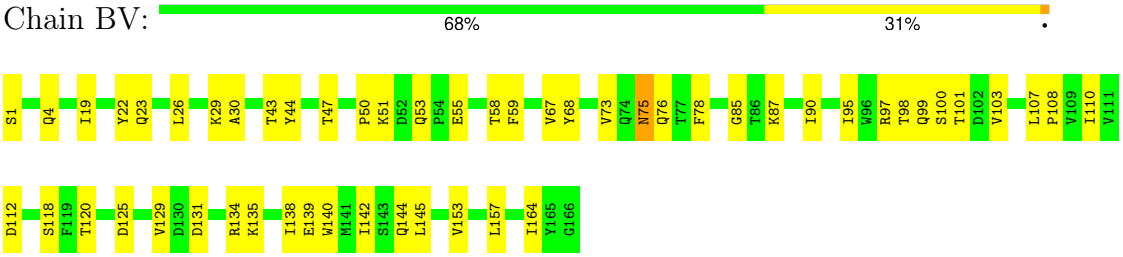
• Molecule 1: coat protein

Chain BU:



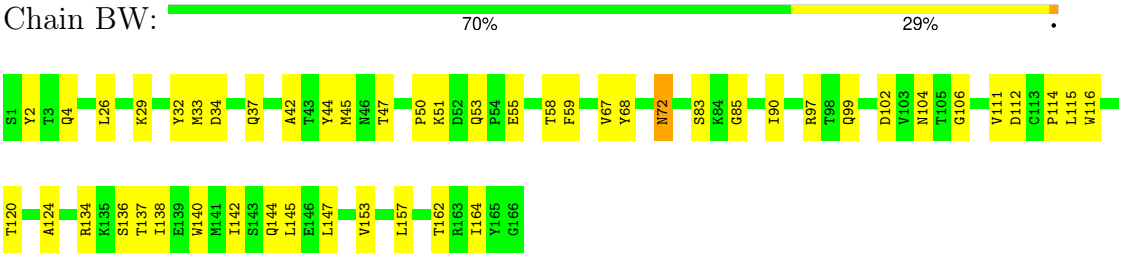
• Molecule 1: coat protein

Chain BV:



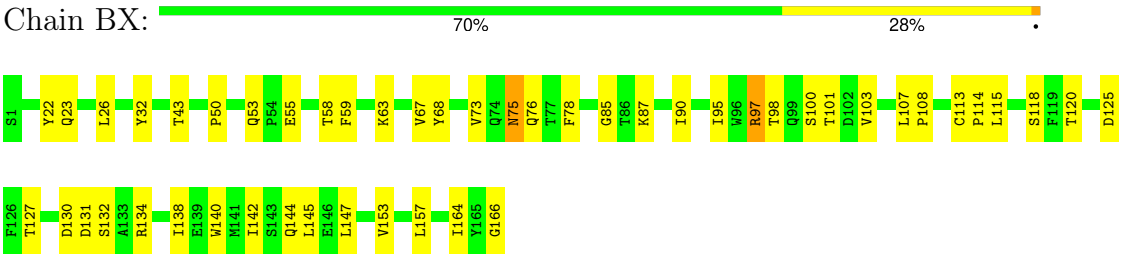
• Molecule 1: coat protein

Chain BW:



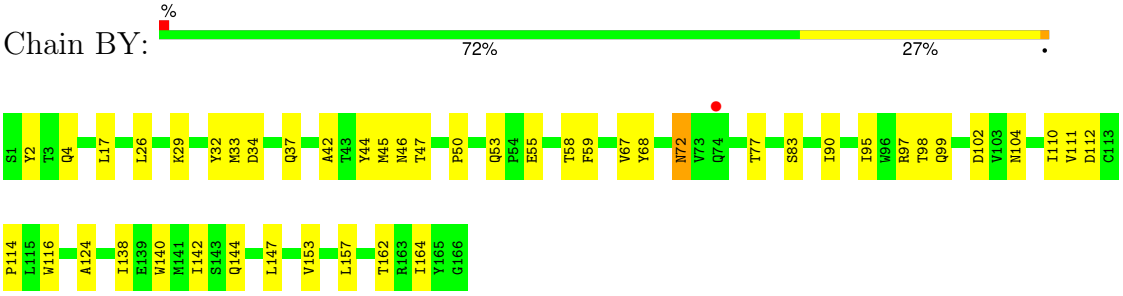
• Molecule 1: coat protein

Chain BX:



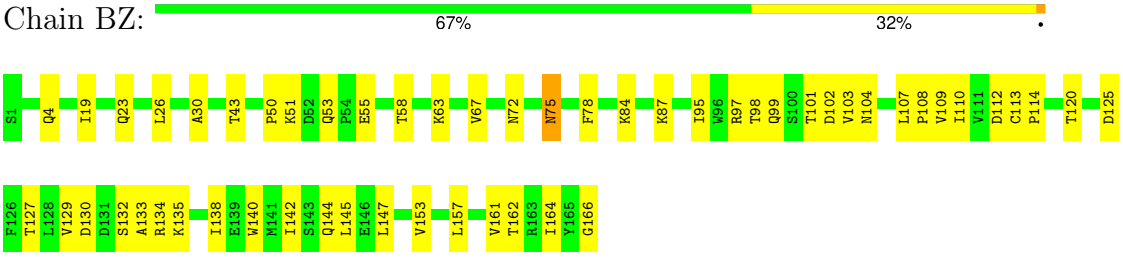
• Molecule 1: coat protein

Chain BY:



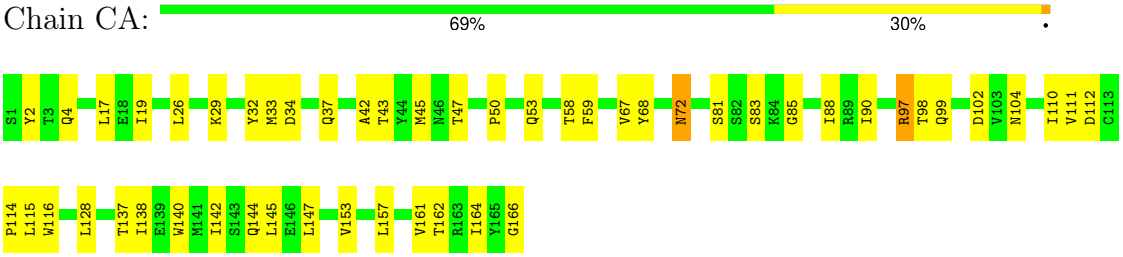
• Molecule 1: coat protein

Chain BZ:



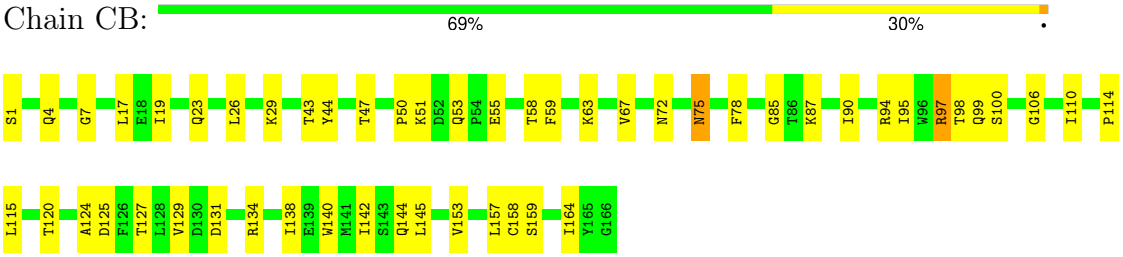
• Molecule 1: coat protein

Chain CA:



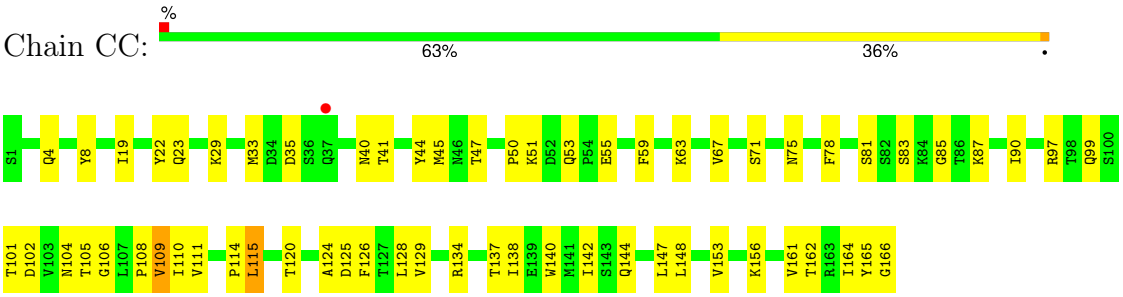
• Molecule 1: coat protein

Chain CB:



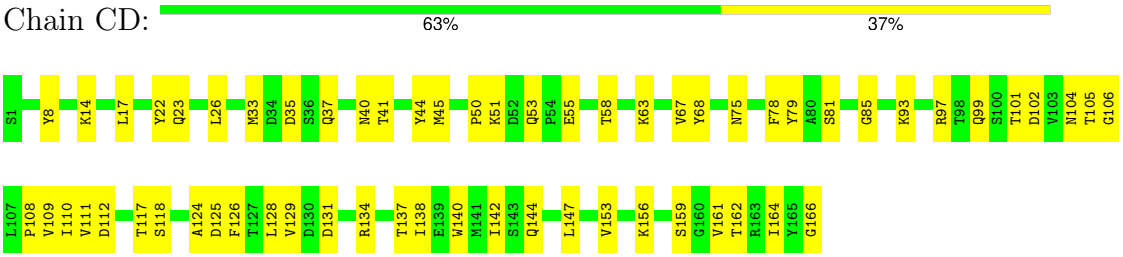
• Molecule 1: coat protein

Chain CC:



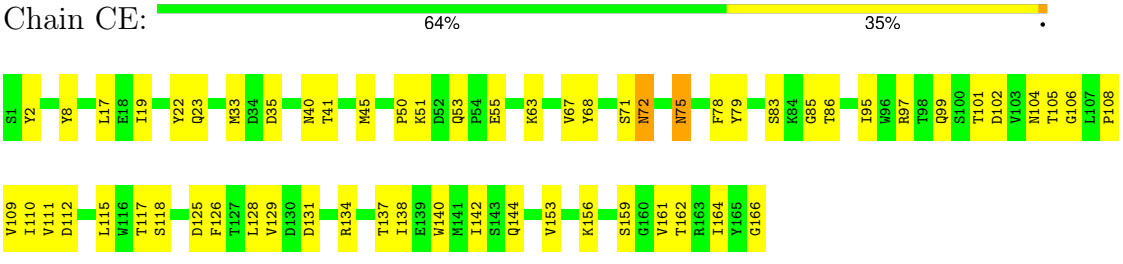
• Molecule 1: coat protein

Chain CD:



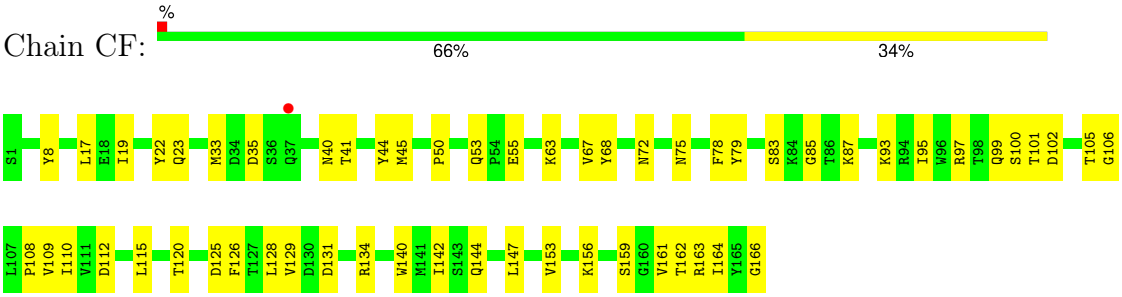
• Molecule 1: coat protein

Chain CE:



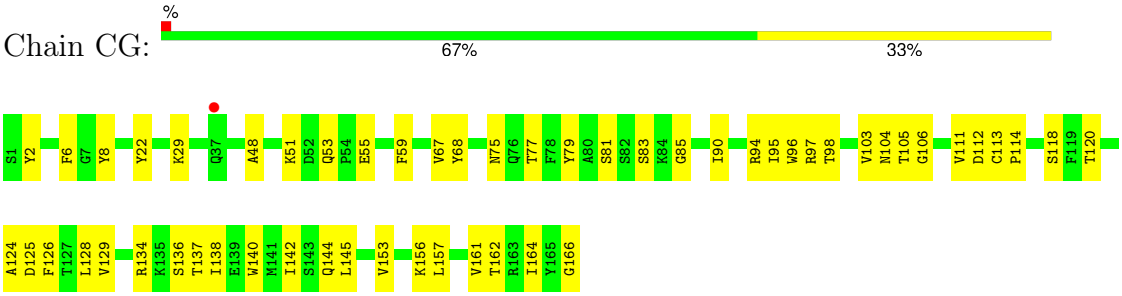
• Molecule 1: coat protein

Chain CF:



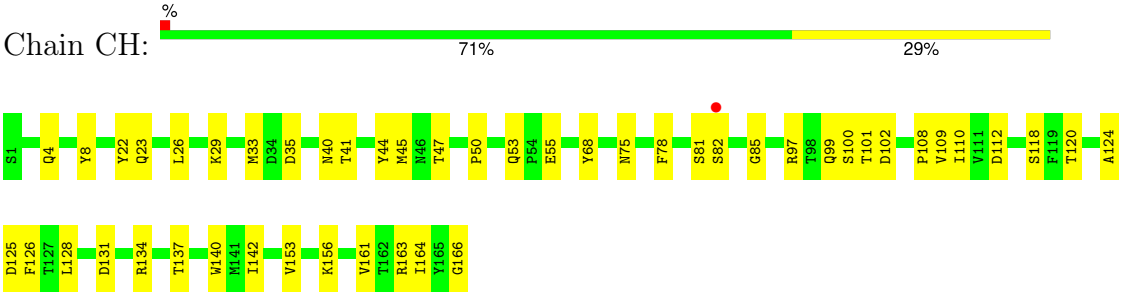
• Molecule 1: coat protein

Chain CG:



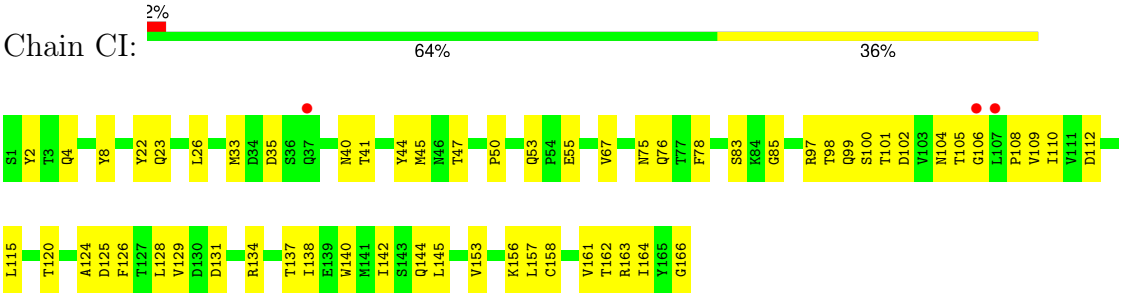
• Molecule 1: coat protein

Chain CH:



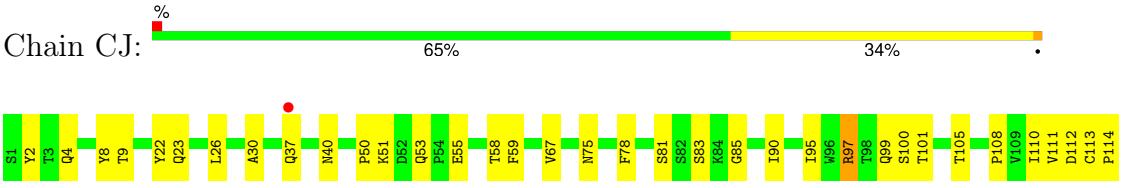
• Molecule 1: coat protein

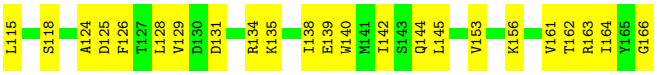
Chain CI:



• Molecule 1: coat protein

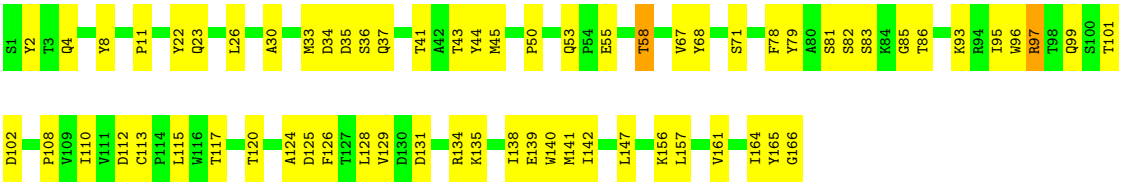
Chain CJ:





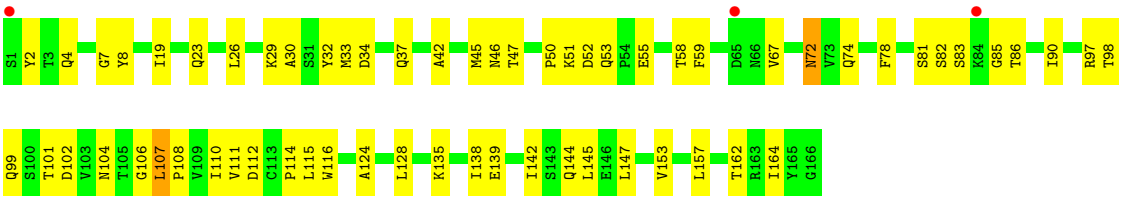
• Molecule 1: coat protein

Chain CK:



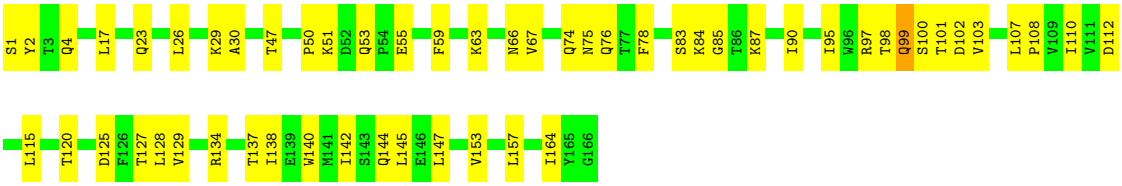
• Molecule 1: coat protein

Chain CL:



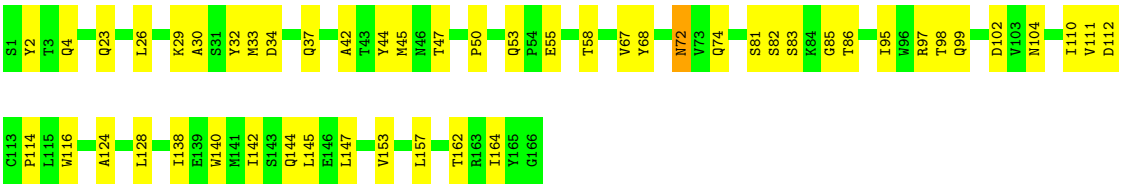
• Molecule 1: coat protein

Chain CM:



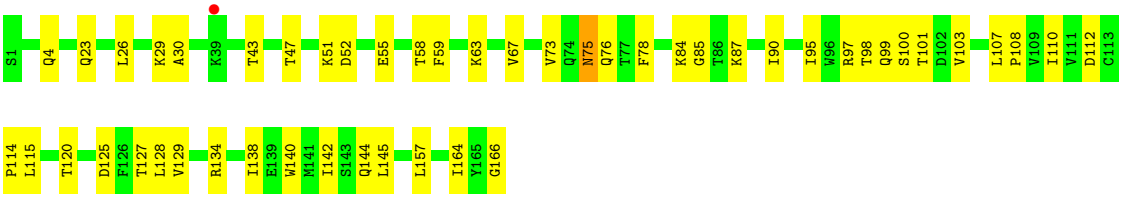
• Molecule 1: coat protein

Chain CN:



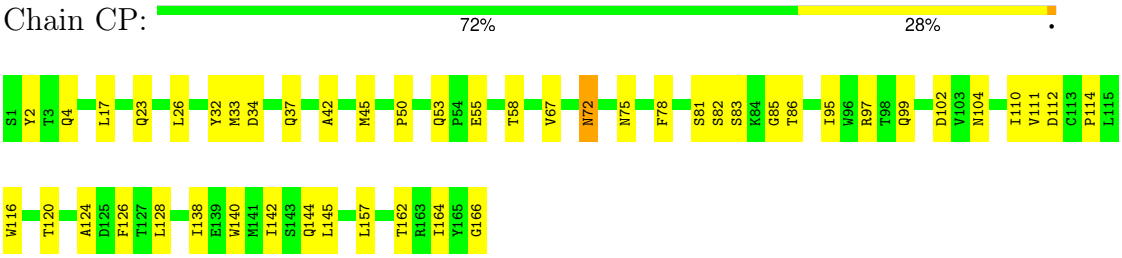
• Molecule 1: coat protein

Chain CO:



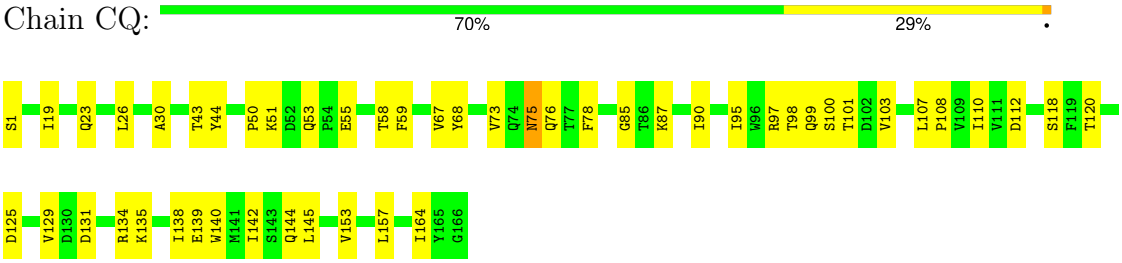
• Molecule 1: coat protein

Chain CP:



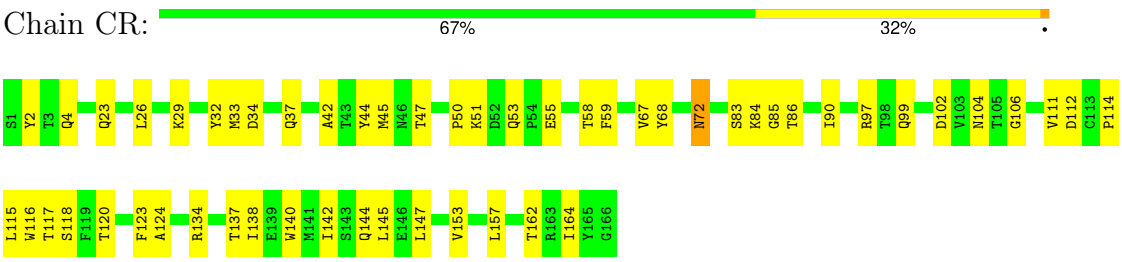
• Molecule 1: coat protein

Chain CQ:



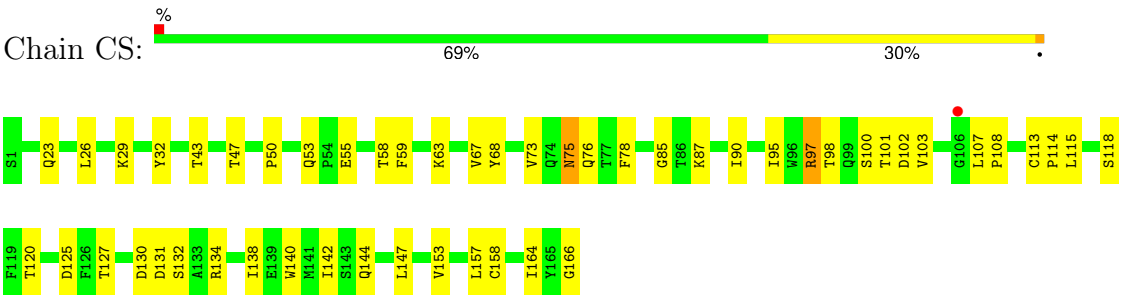
• Molecule 1: coat protein

Chain CR:



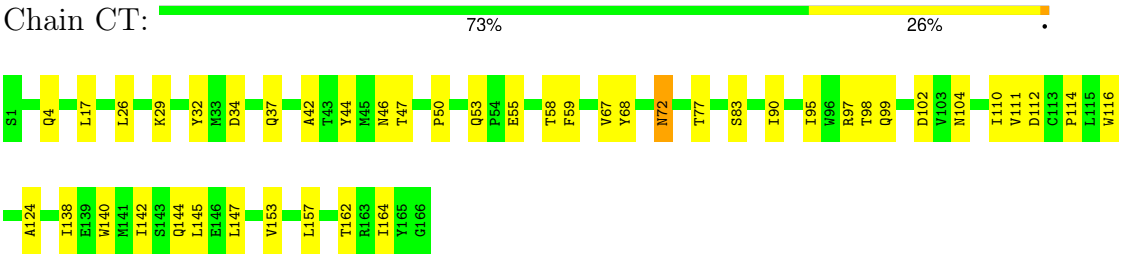
• Molecule 1: coat protein

Chain CS:



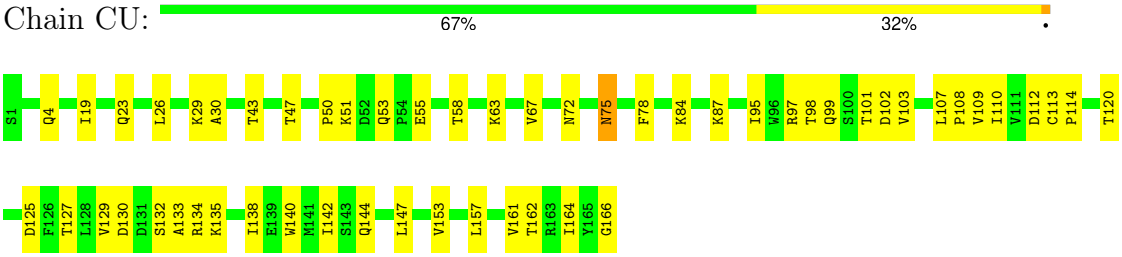
• Molecule 1: coat protein

Chain CT:



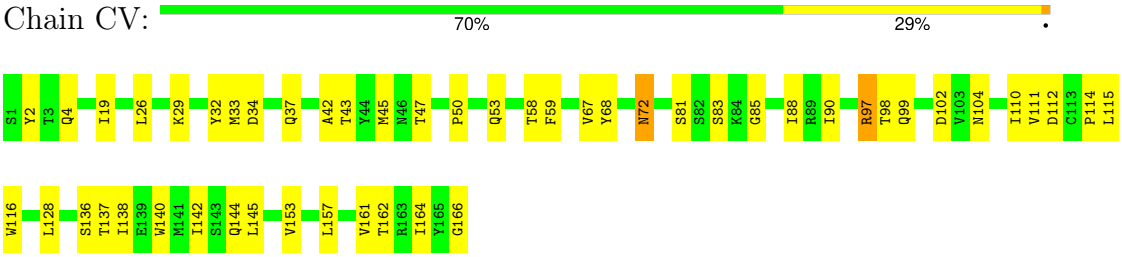
• Molecule 1: coat protein

Chain CU:



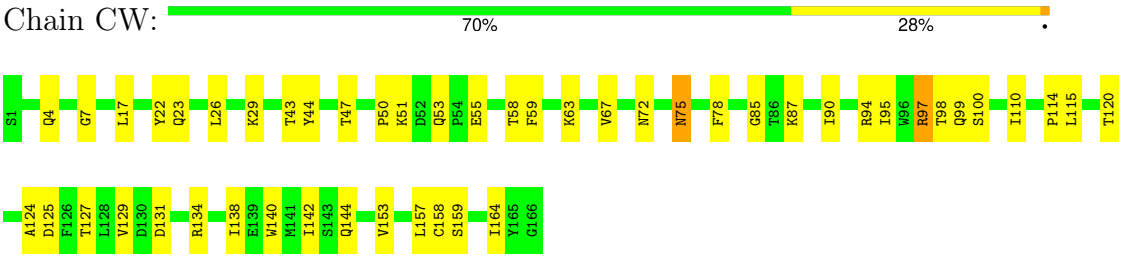
• Molecule 1: coat protein

Chain CV:



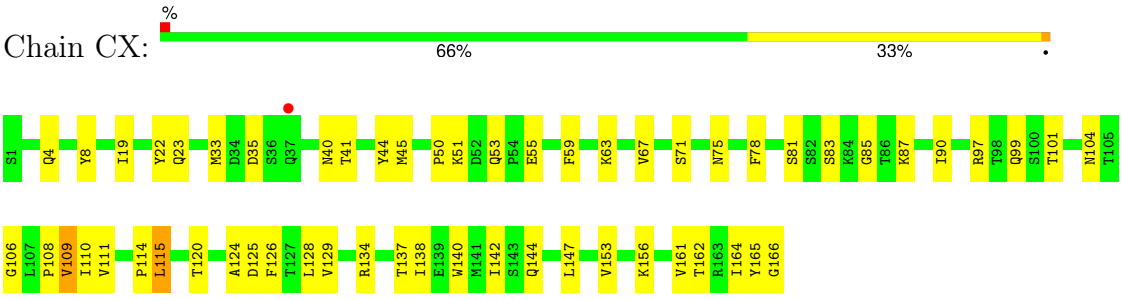
• Molecule 1: coat protein

Chain CW:



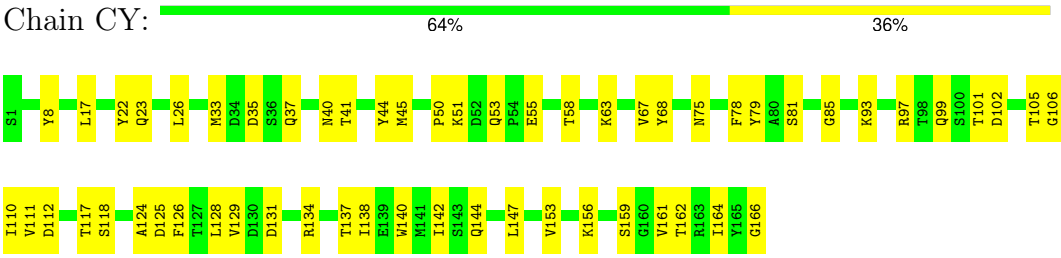
• Molecule 1: coat protein

Chain CX:



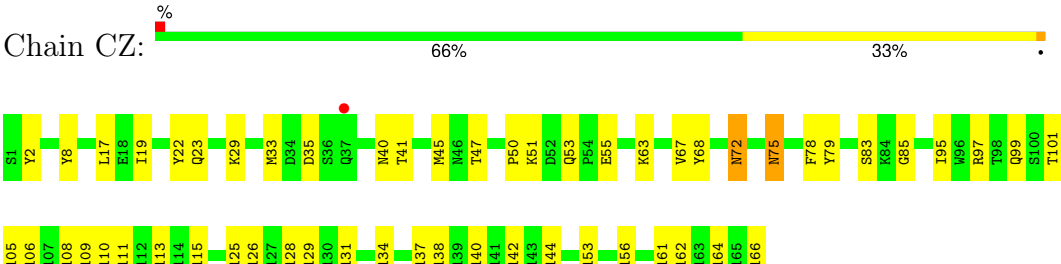
• Molecule 1: coat protein

Chain CY:



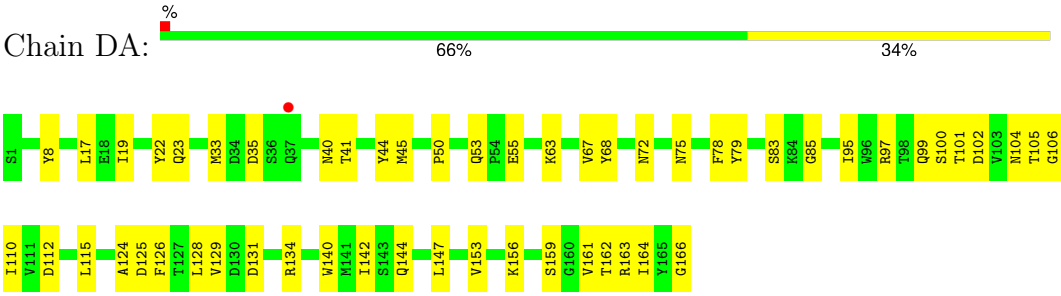
• Molecule 1: coat protein

Chain CZ:



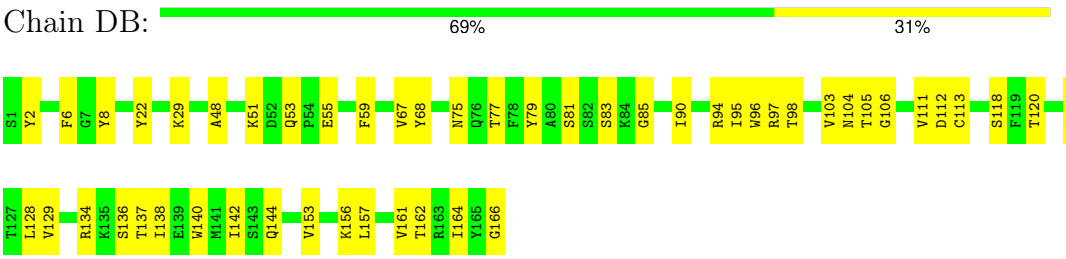
• Molecule 1: coat protein

Chain DA:



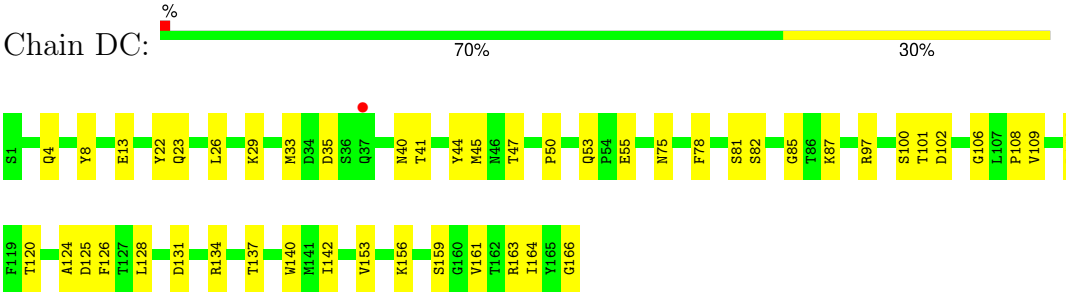
• Molecule 1: coat protein

Chain DB:



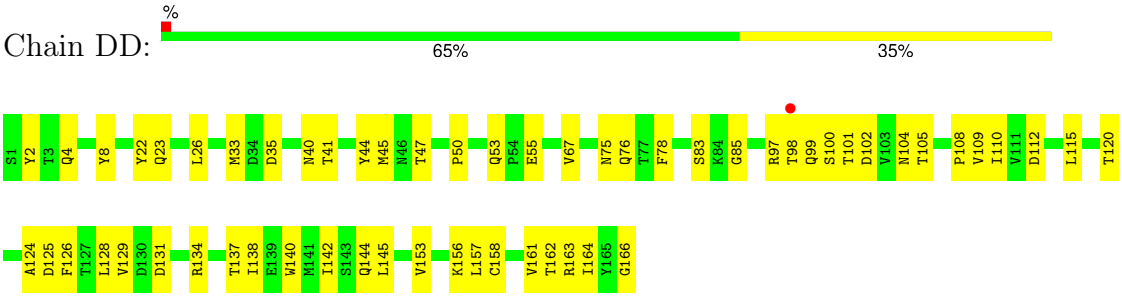
• Molecule 1: coat protein

Chain DC:



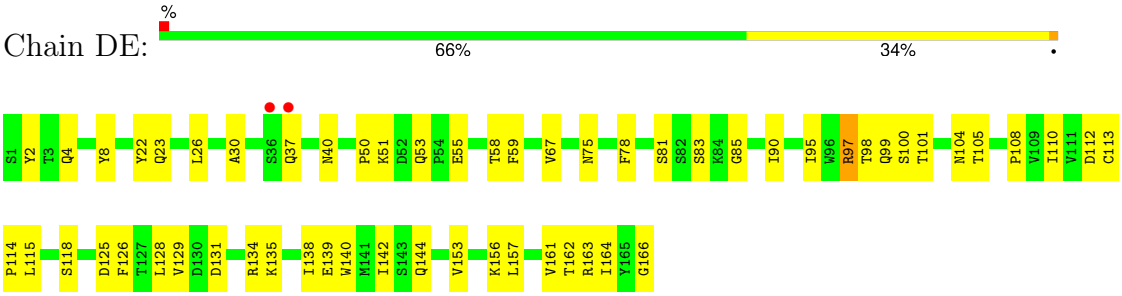
• Molecule 1: coat protein

Chain DD:



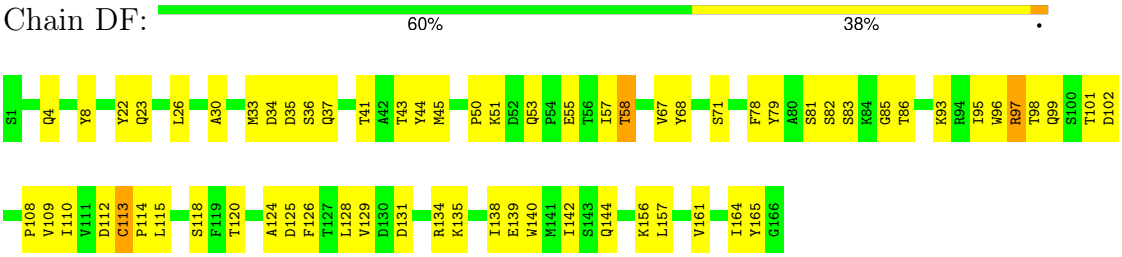
• Molecule 1: coat protein

Chain DE:



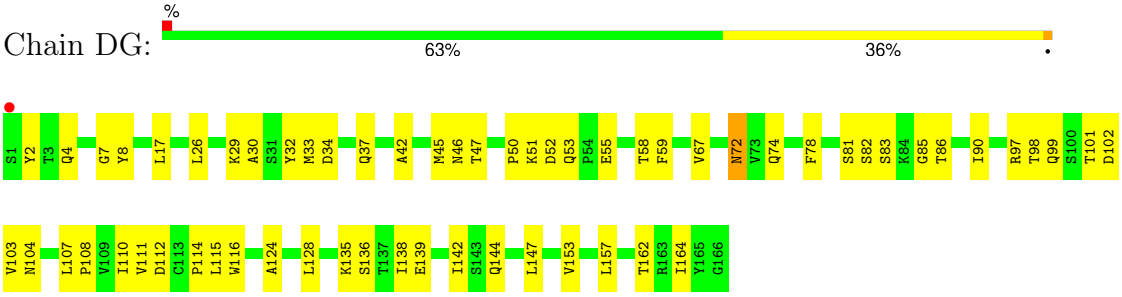
• Molecule 1: coat protein

Chain DF:



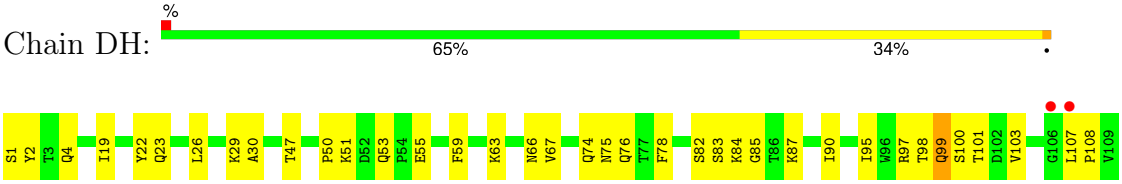
• Molecule 1: coat protein

Chain DG:



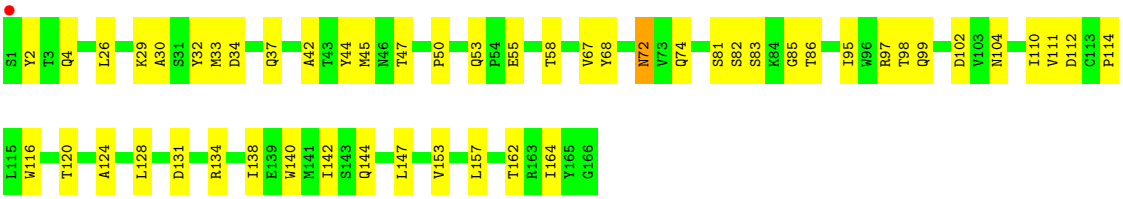
• Molecule 1: coat protein

Chain DH:



• Molecule 1: coat protein

Chain DI:

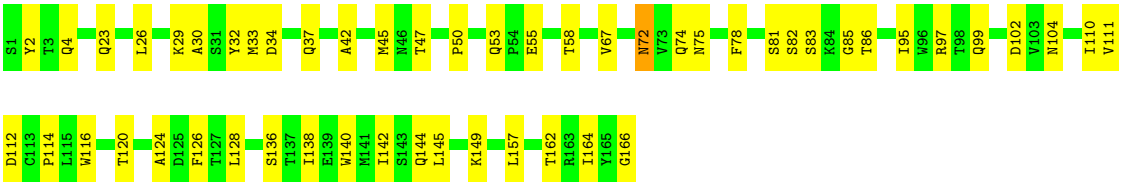


• Molecule 1: coat protein

Chain DJ:

• Molecule 1: coat protein

Chain DK:

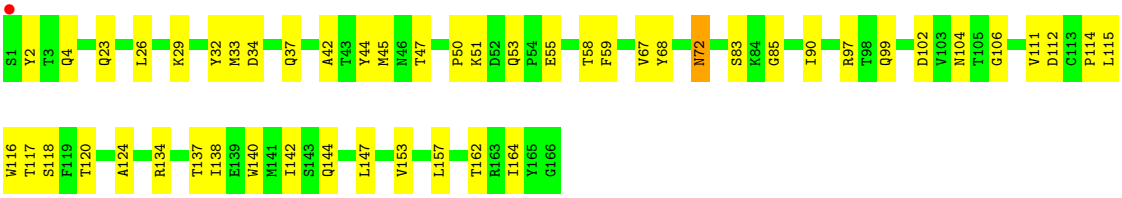


• Molecule 1: coat protein

Chain DL:

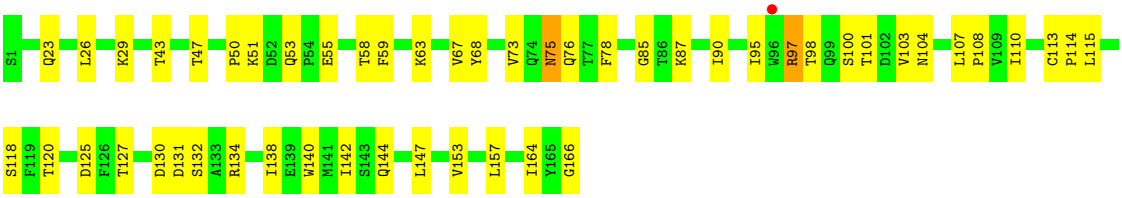
• Molecule 1: coat protein

Chain DM:



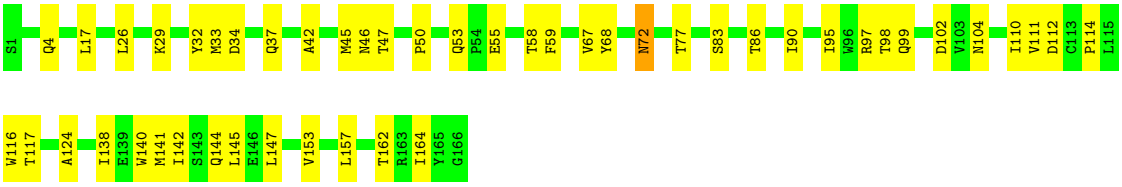
• Molecule 1: coat protein

Chain DN:



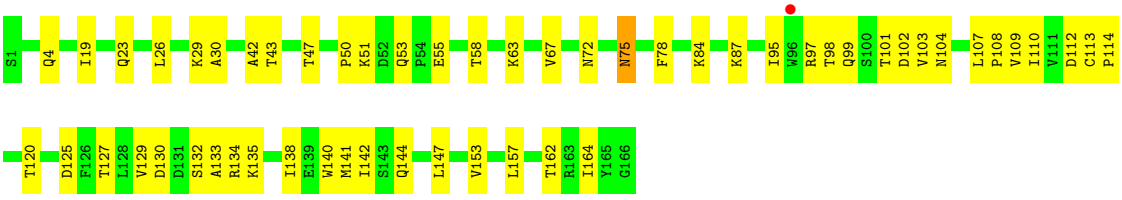
• Molecule 1: coat protein

Chain DO:



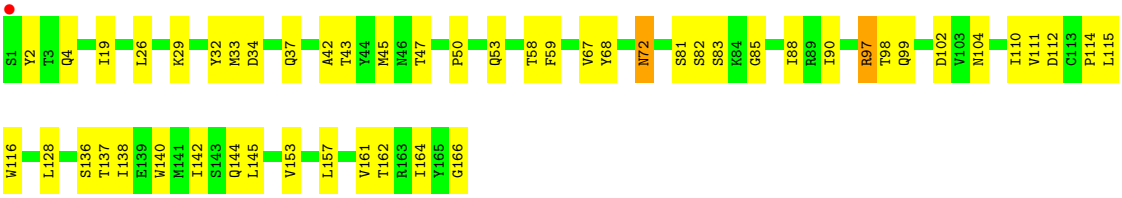
• Molecule 1: coat protein

Chain DP:



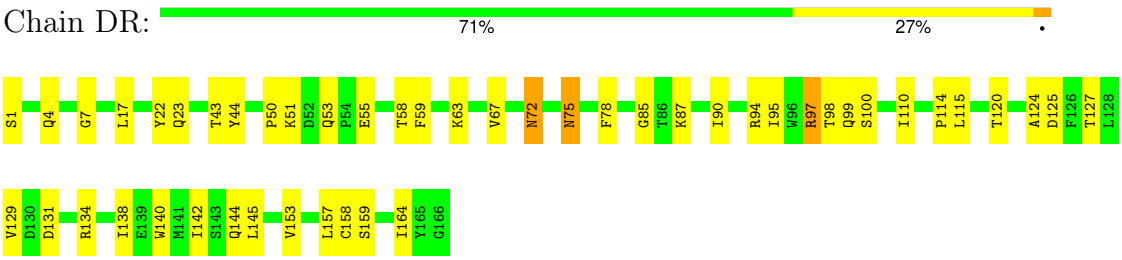
• Molecule 1: coat protein

Chain DQ:



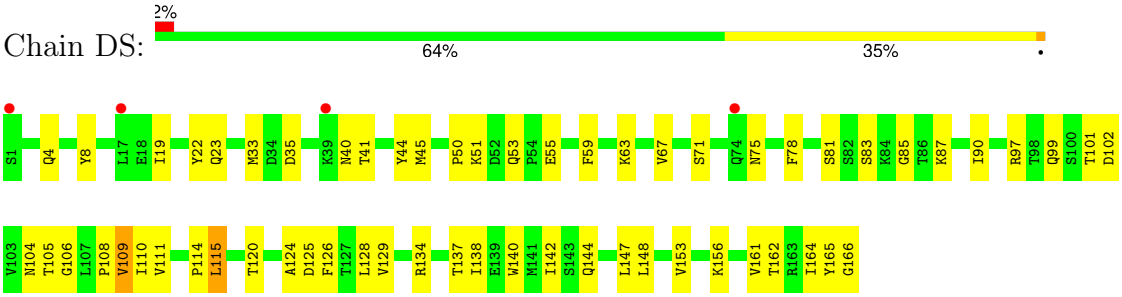
• Molecule 1: coat protein

Chain DR:



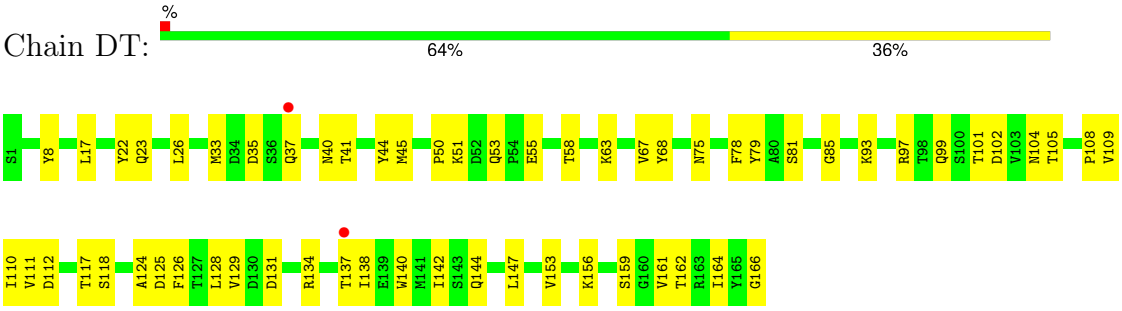
• Molecule 1: coat protein

Chain DS:



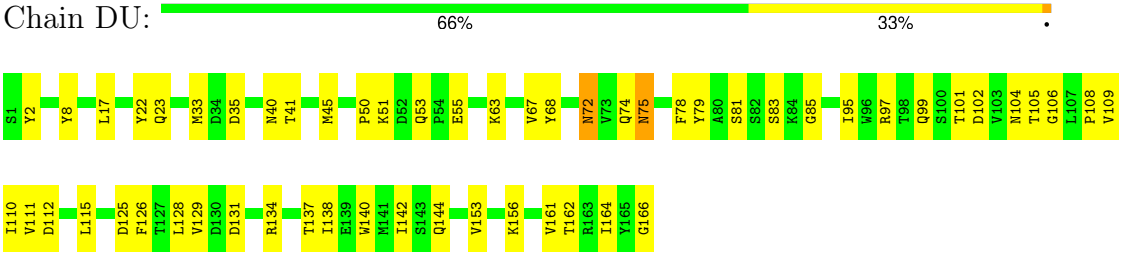
• Molecule 1: coat protein

Chain DT:



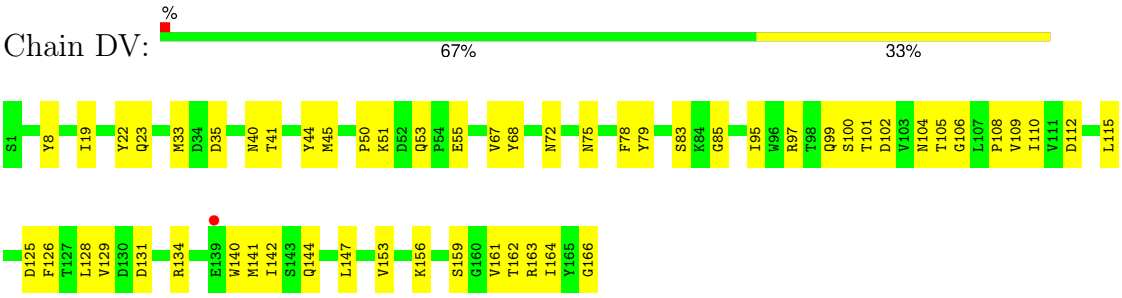
• Molecule 1: coat protein

Chain DU:



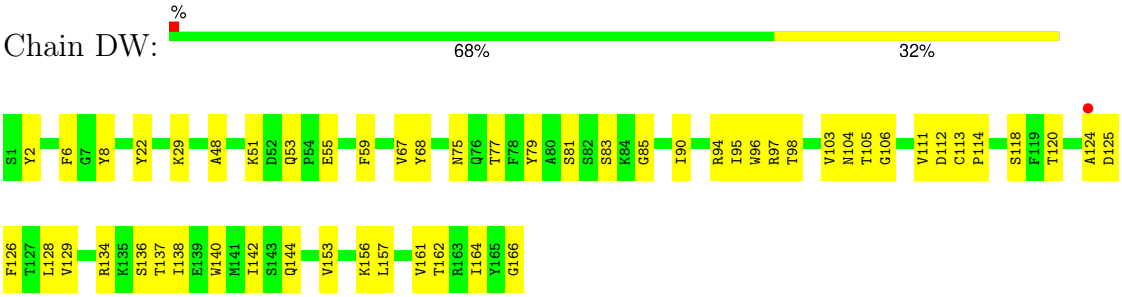
• Molecule 1: coat protein

Chain DV:



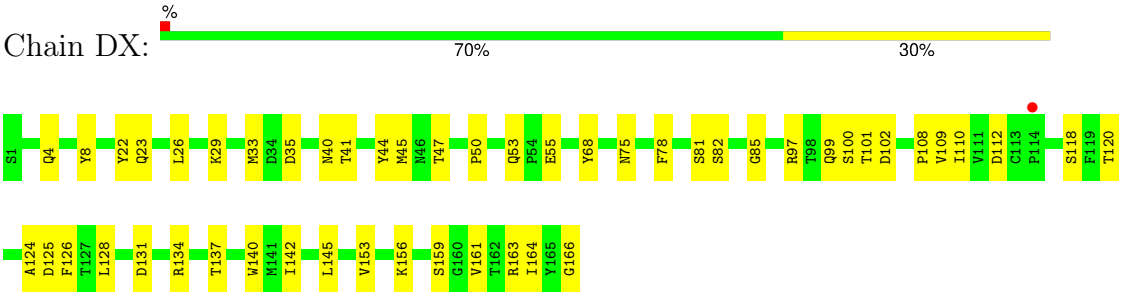
• Molecule 1: coat protein

Chain DW:



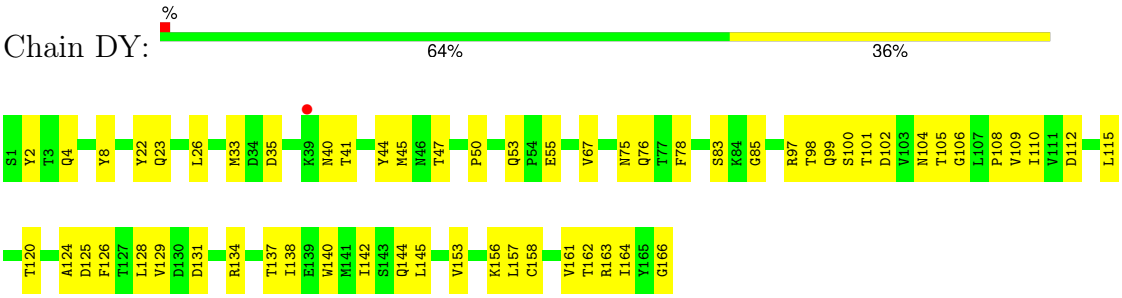
• Molecule 1: coat protein

Chain DX:



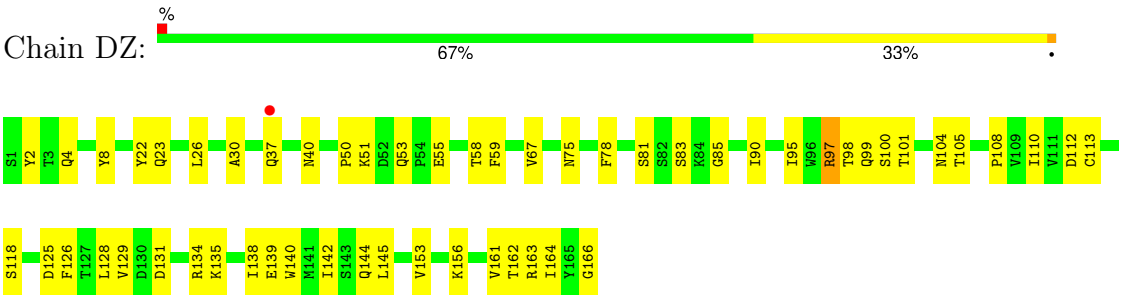
• Molecule 1: coat protein

Chain DY:



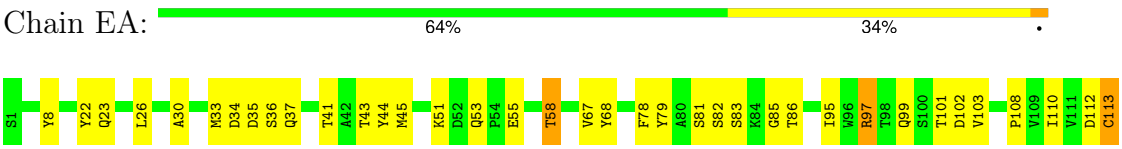
• Molecule 1: coat protein

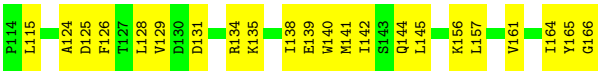
Chain DZ:



• Molecule 1: coat protein

Chain EA:



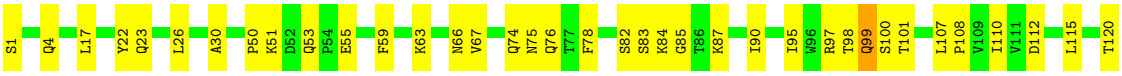


• Molecule 1: coat protein

Chain EB:

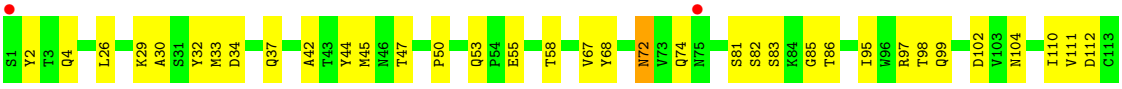
• Molecule 1: coat protein

Chain EC:



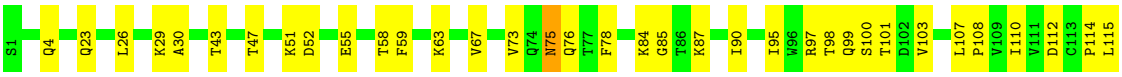
• Molecule 1: coat protein

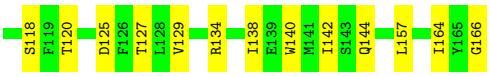
Chain ED:



• Molecule 1: coat protein

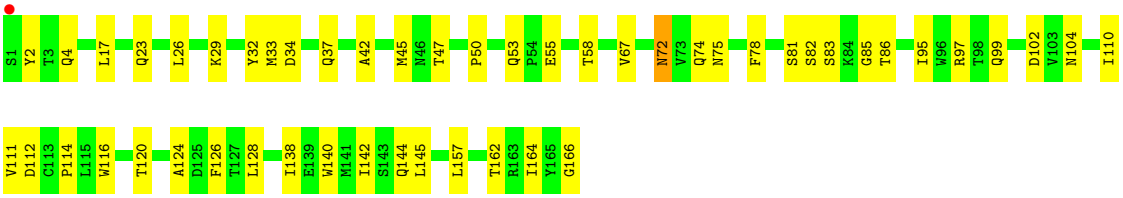
Chain EE:





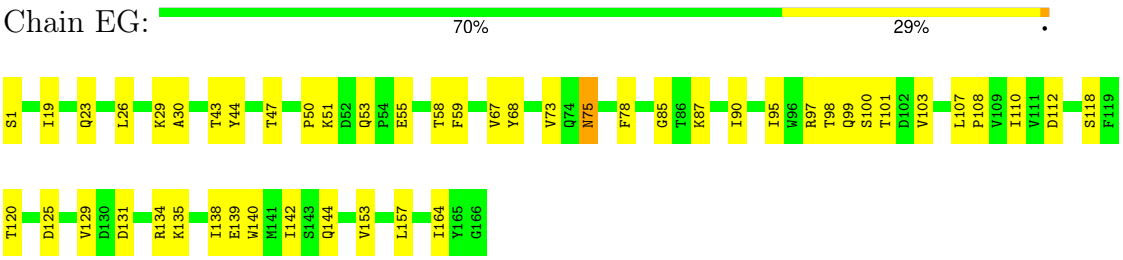
• Molecule 1: coat protein

Chain EF:



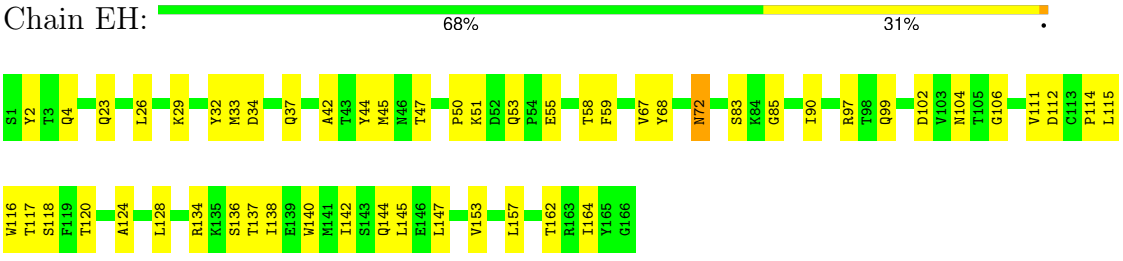
• Molecule 1: coat protein

Chain EG:



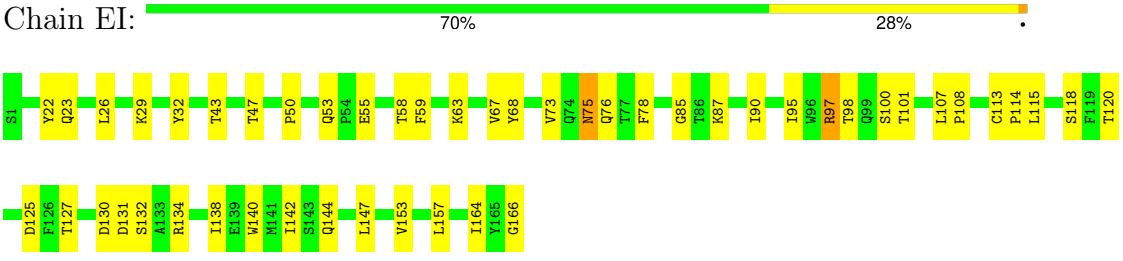
• Molecule 1: coat protein

Chain EH:



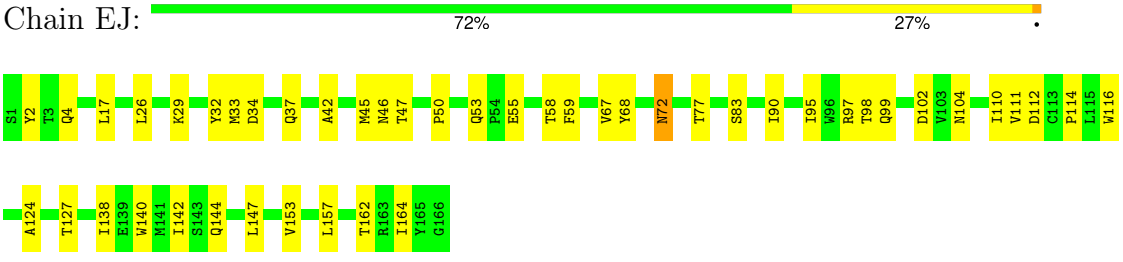
• Molecule 1: coat protein

Chain EI:



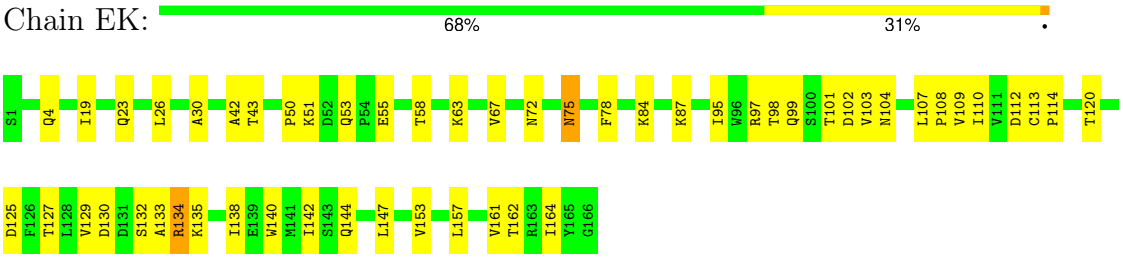
• Molecule 1: coat protein

Chain EJ:



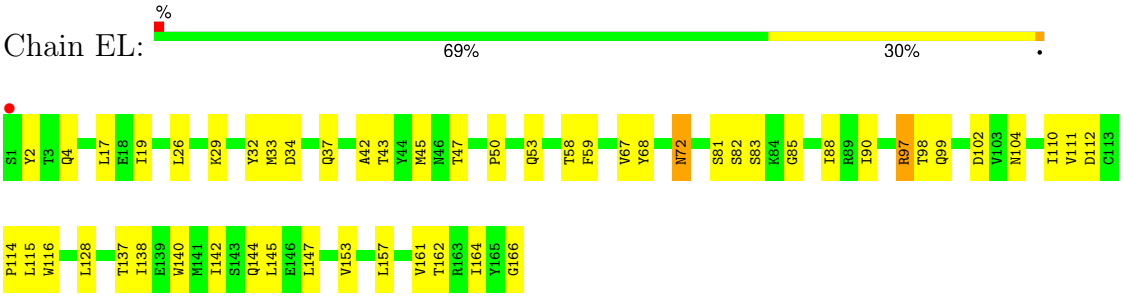
• Molecule 1: coat protein

Chain EK:



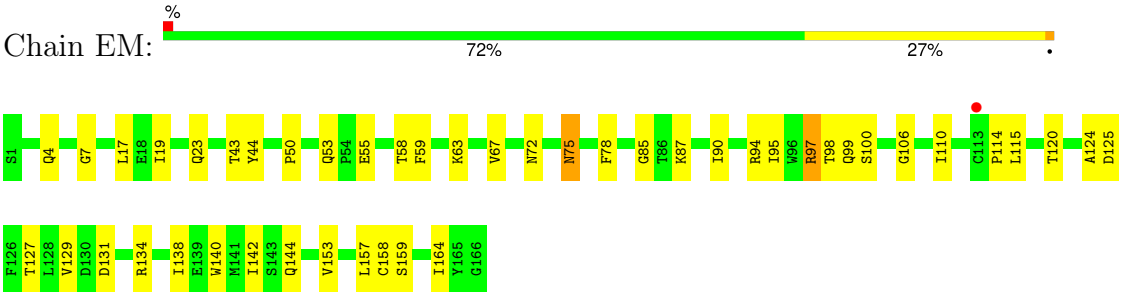
• Molecule 1: coat protein

Chain EL:



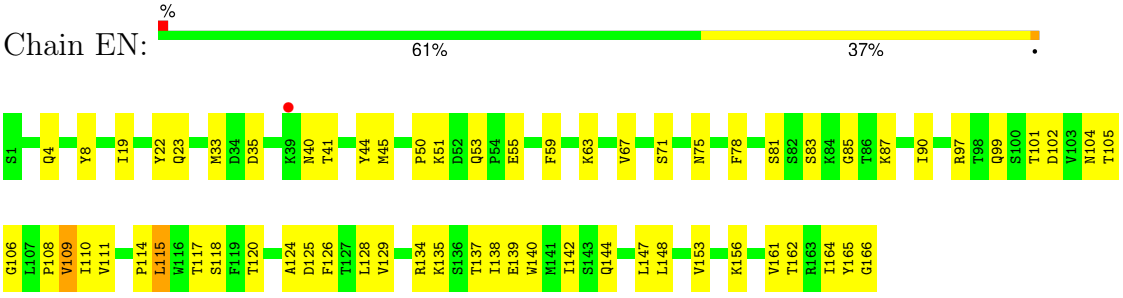
• Molecule 1: coat protein

Chain EM:



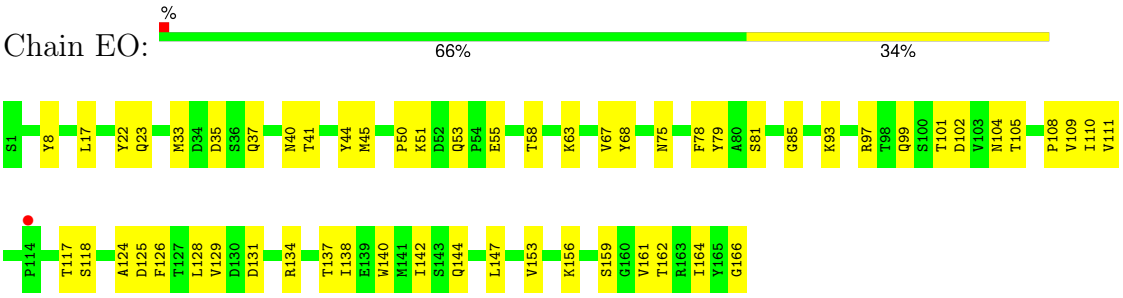
• Molecule 1: coat protein

Chain EN:



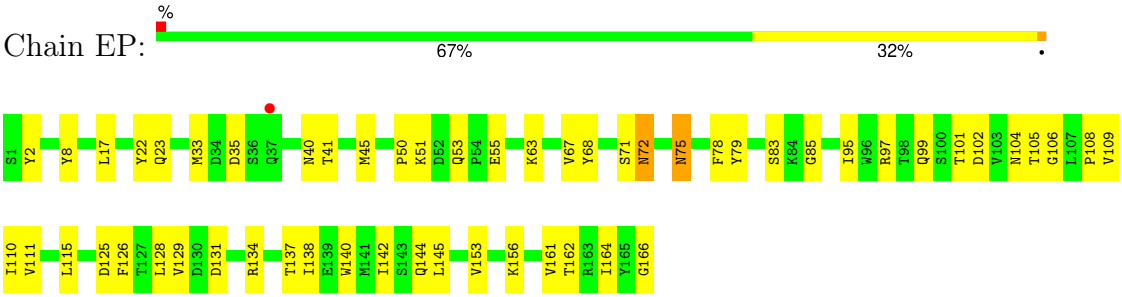
• Molecule 1: coat protein

Chain EO:



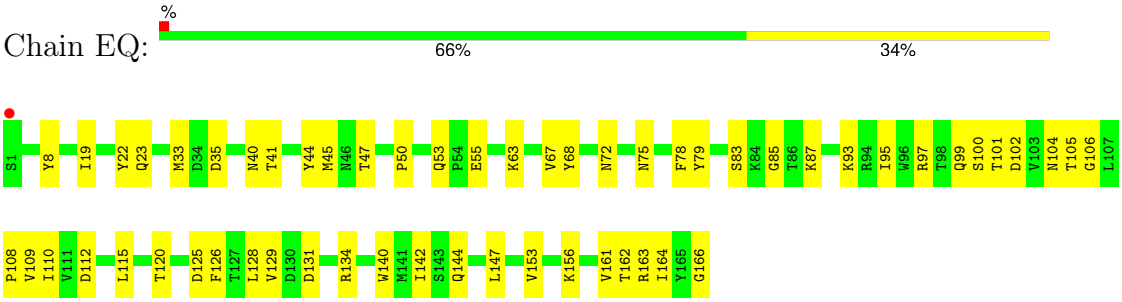
• Molecule 1: coat protein

Chain EP:



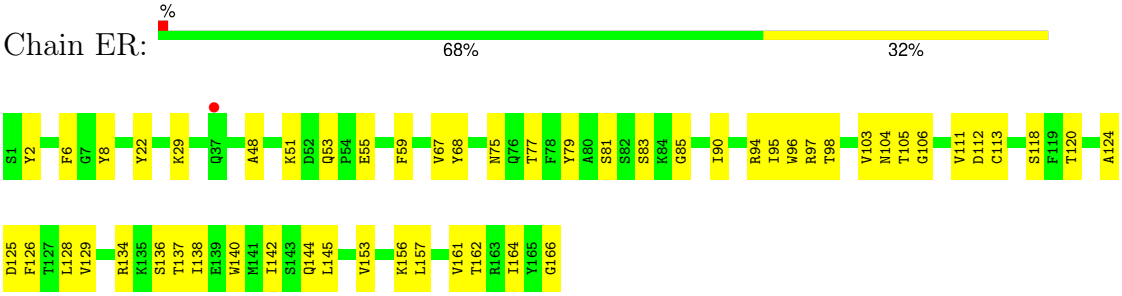
• Molecule 1: coat protein

Chain EQ:



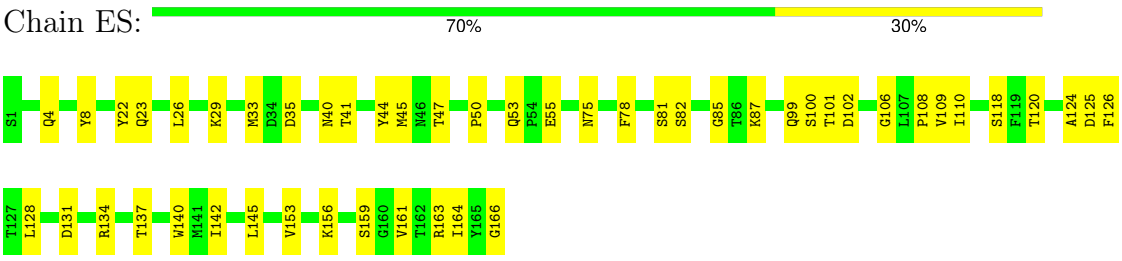
• Molecule 1: coat protein

Chain ER:



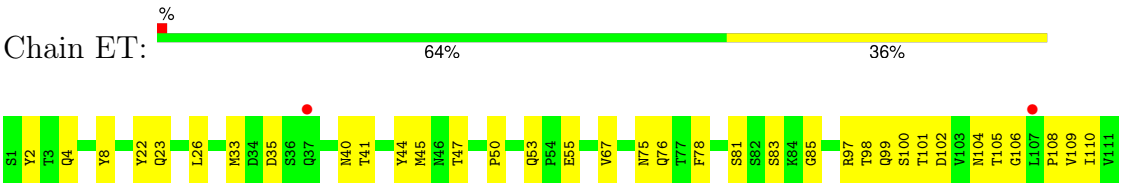
• Molecule 1: coat protein

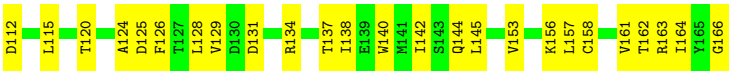
Chain ES:



• Molecule 1: coat protein

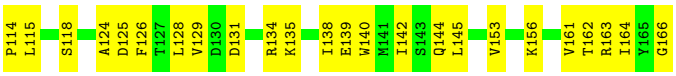
Chain ET:





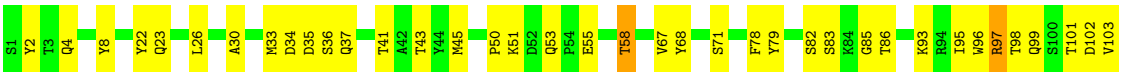
• Molecule 1: coat protein

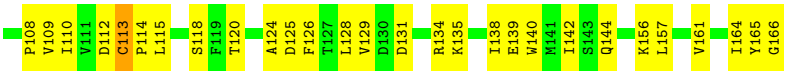
Chain EU:



• Molecule 1: coat protein

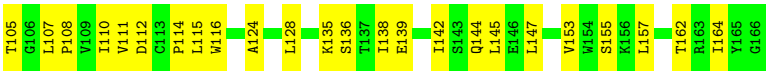
Chain EV:





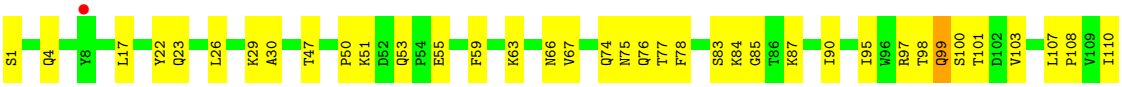
• Molecule 1: coat protein

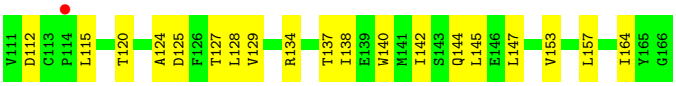
Chain EW:



• Molecule 1: coat protein

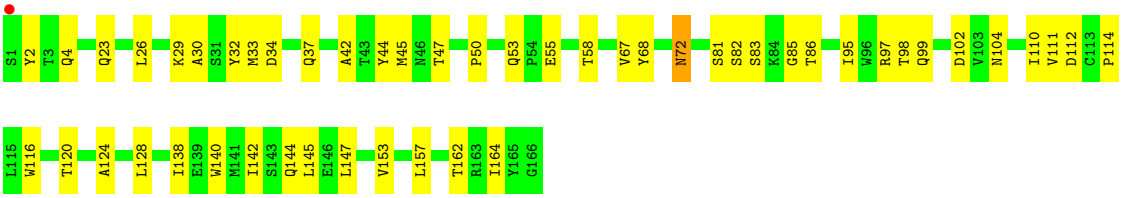
Chain EX:





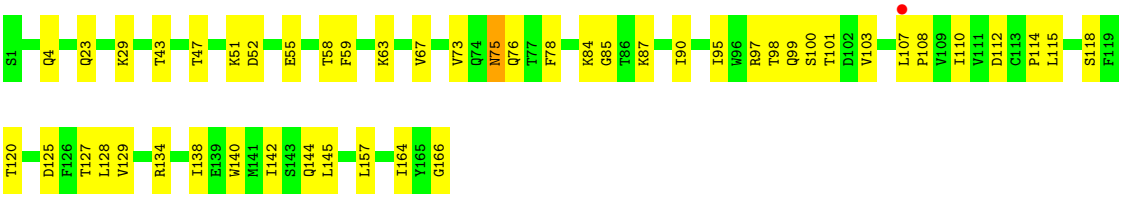
• Molecule 1: coat protein

Chain EY:



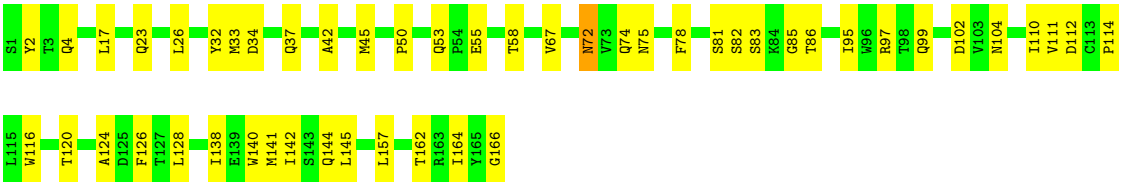
• Molecule 1: coat protein

Chain EZ:



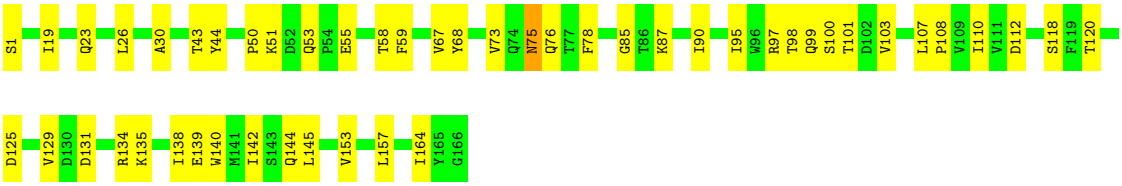
• Molecule 1: coat protein

Chain FA:



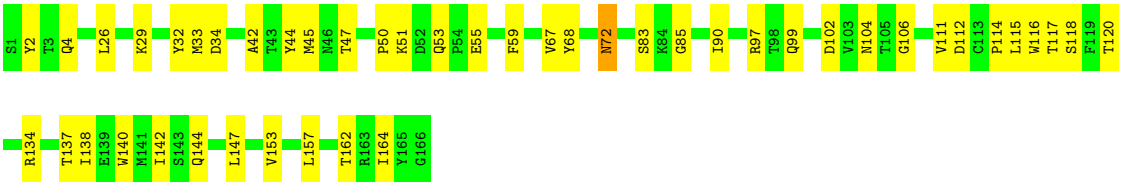
• Molecule 1: coat protein

Chain FB:



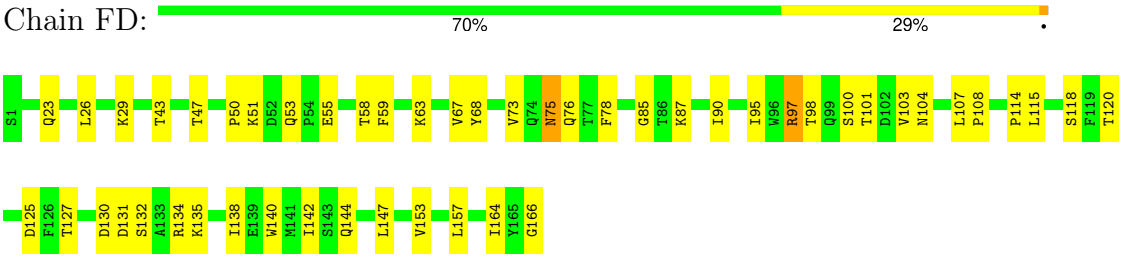
• Molecule 1: coat protein

Chain FC:



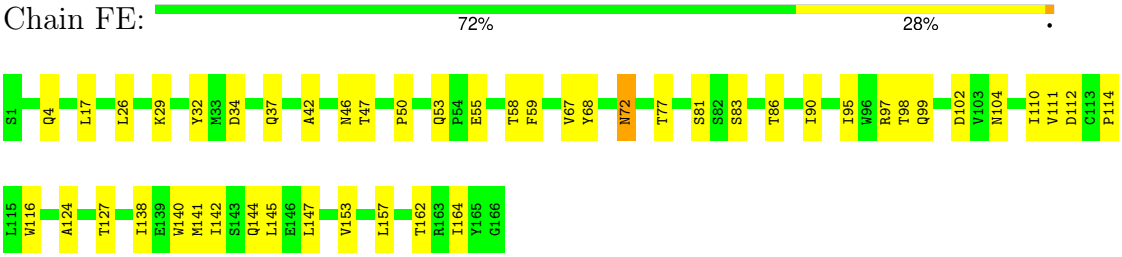
• Molecule 1: coat protein

Chain FD:



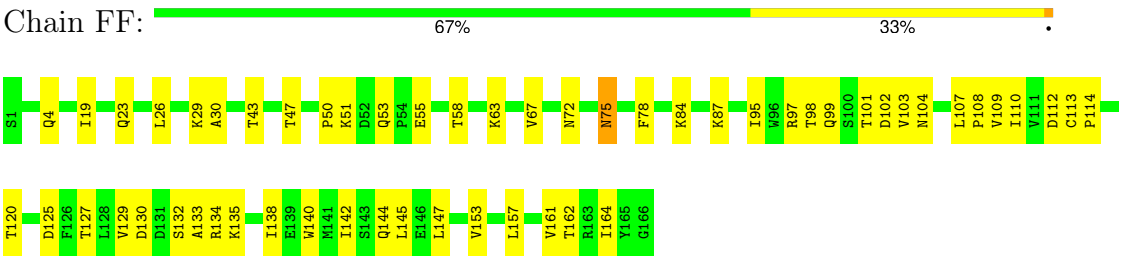
- Molecule 1: coat protein

Chain FE:



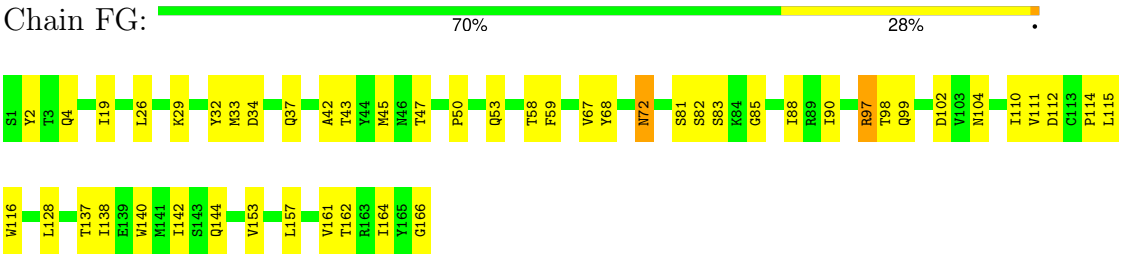
- Molecule 1: coat protein

Chain FF:



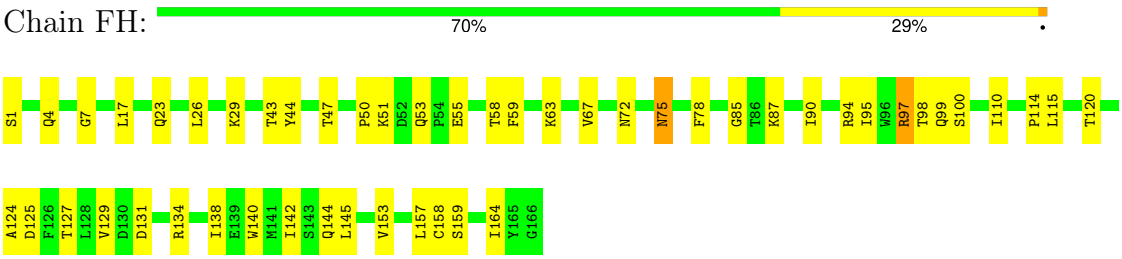
- Molecule 1: coat protein

Chain FG:



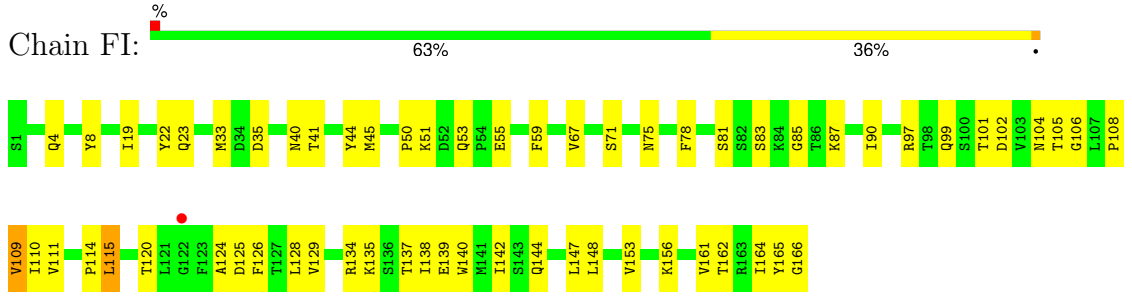
- Molecule 1: coat protein

Chain FH:



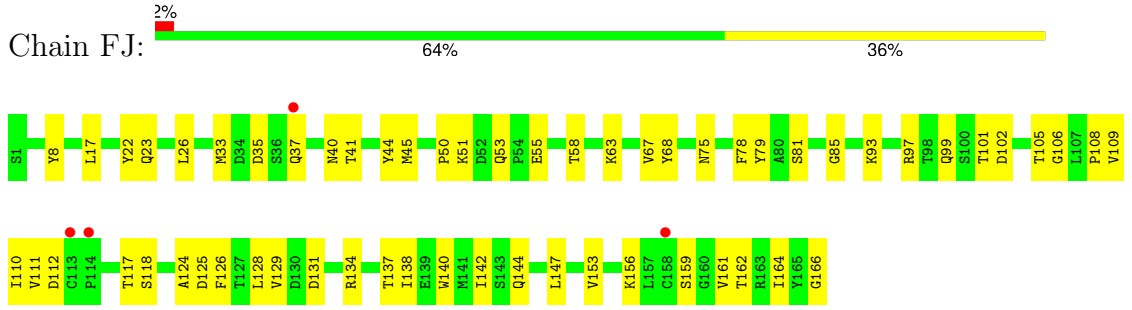
- Molecule 1: coat protein

Chain FI:



• Molecule 1: coat protein

Chain FJ:



• Molecule 1: coat protein

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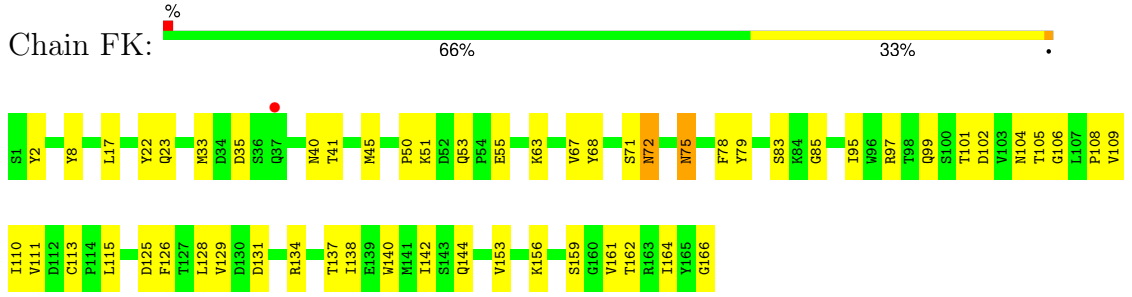
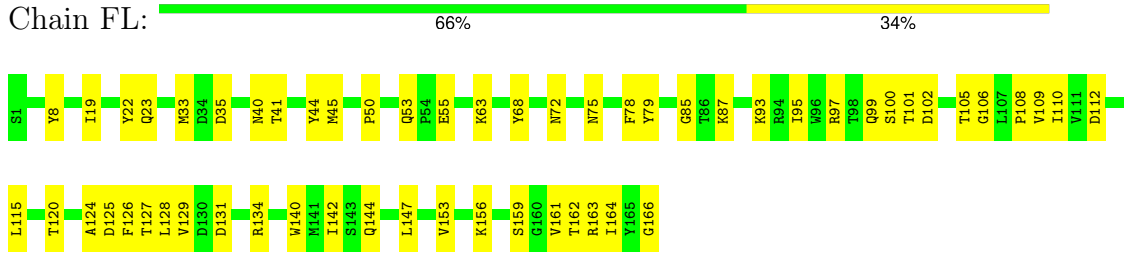


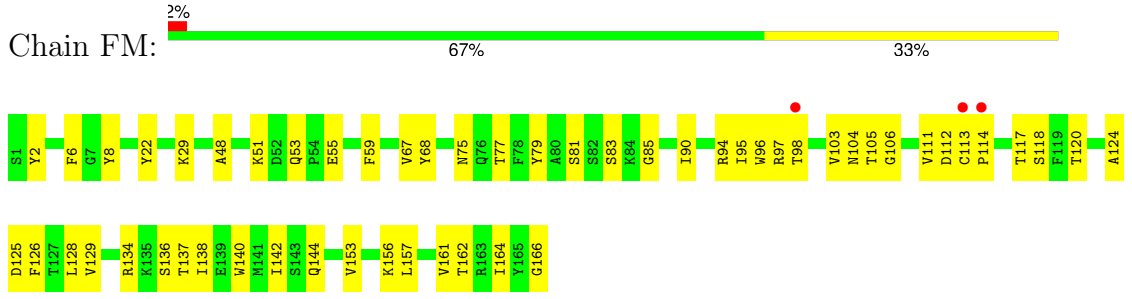
• Molecule 1: coat protein

Chain FL:



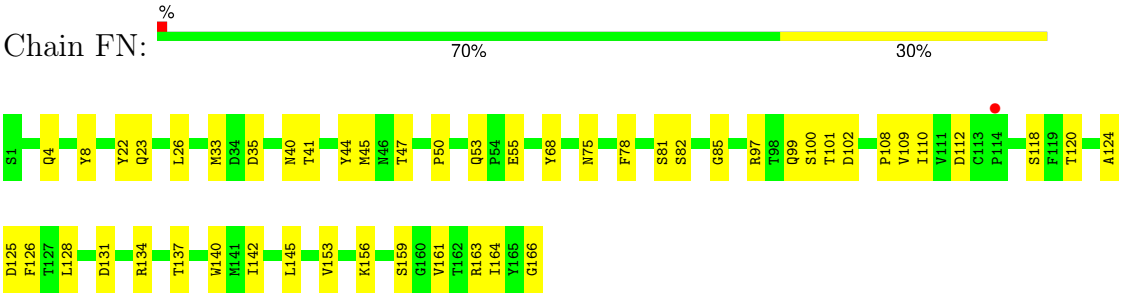
• Molecule 1: coat protein

Chain FM:



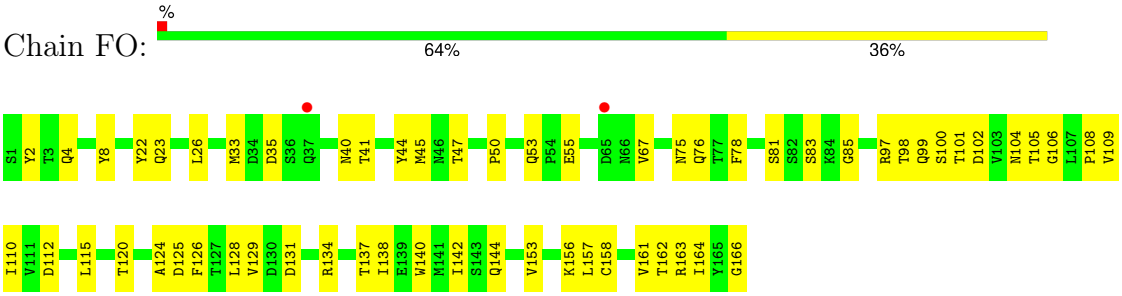
• Molecule 1: coat protein

Chain FN:



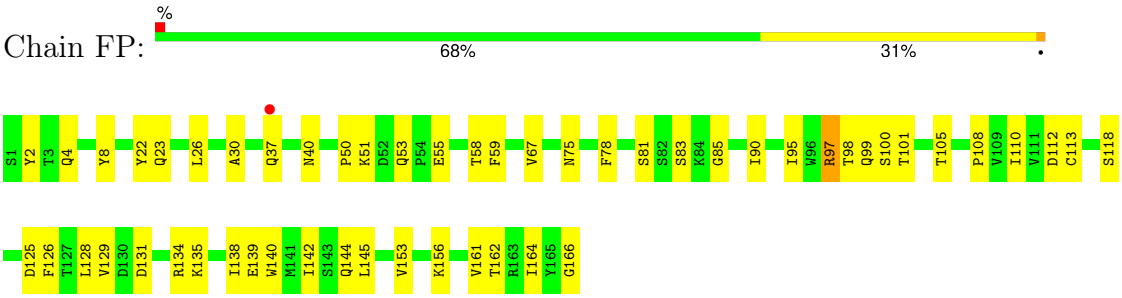
• Molecule 1: coat protein

Chain FO:



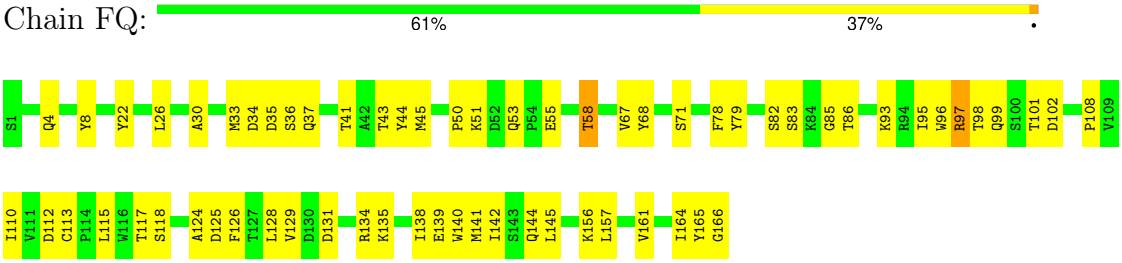
• Molecule 1: coat protein

Chain FP:



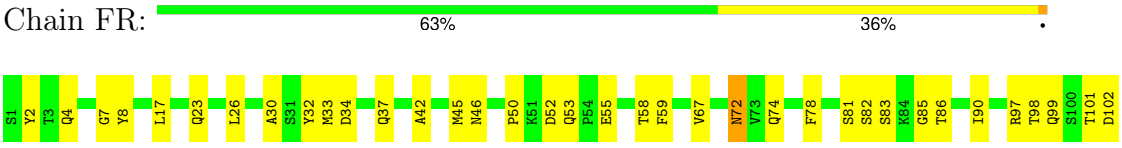
• Molecule 1: coat protein

Chain FQ:



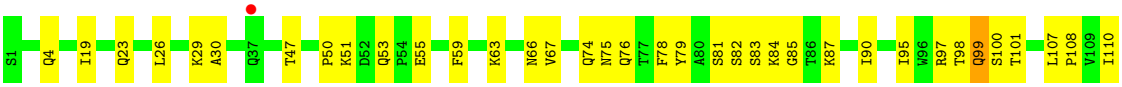
• Molecule 1: coat protein

Chain FR:



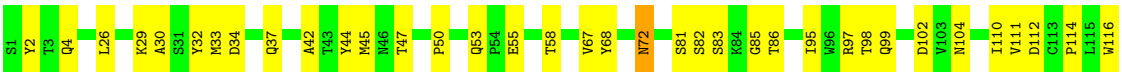
• Molecule 1: coat protein

Chain FS:



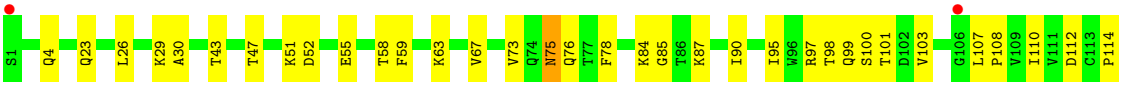
• Molecule 1: coat protein

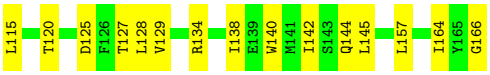
Chain FT:



• Molecule 1: coat protein

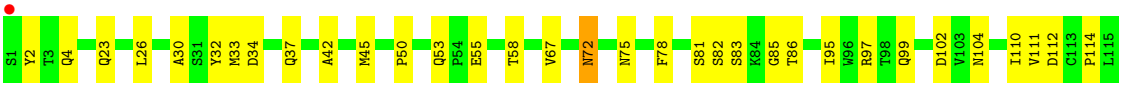
Chain FU:

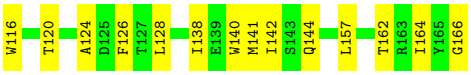




• Molecule 1: coat protein

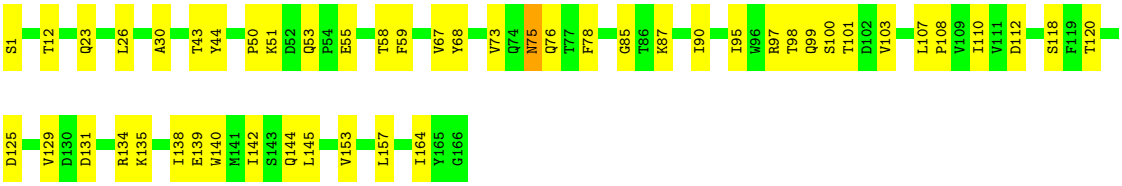
Chain FV:





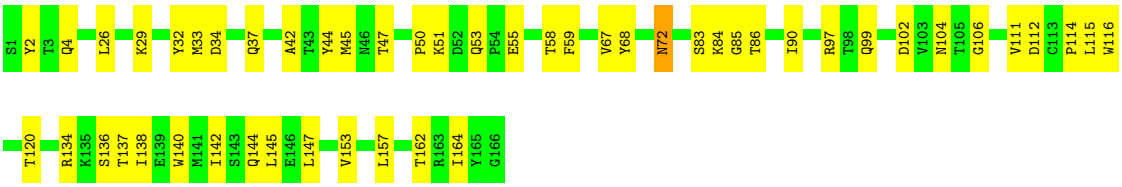
• Molecule 1: coat protein

Chain FW:



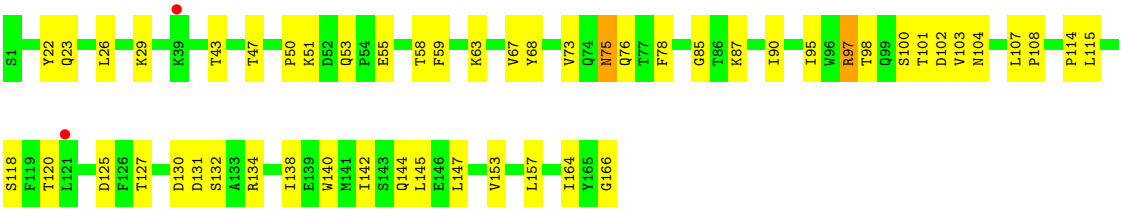
• Molecule 1: coat protein

Chain FX:



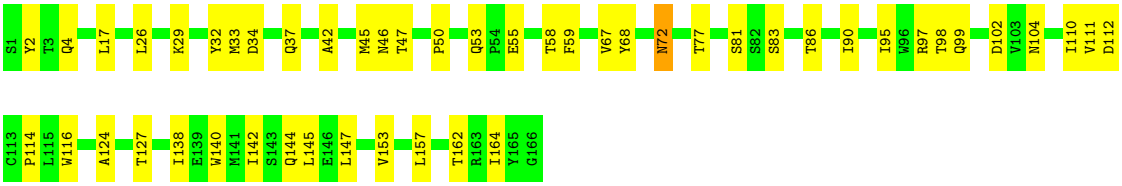
• Molecule 1: coat protein

Chain FY:



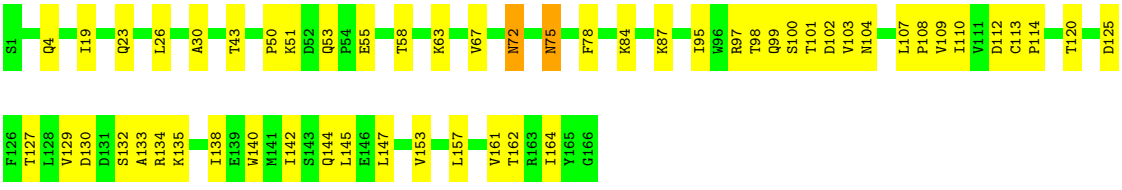
• Molecule 1: coat protein

Chain FZ:



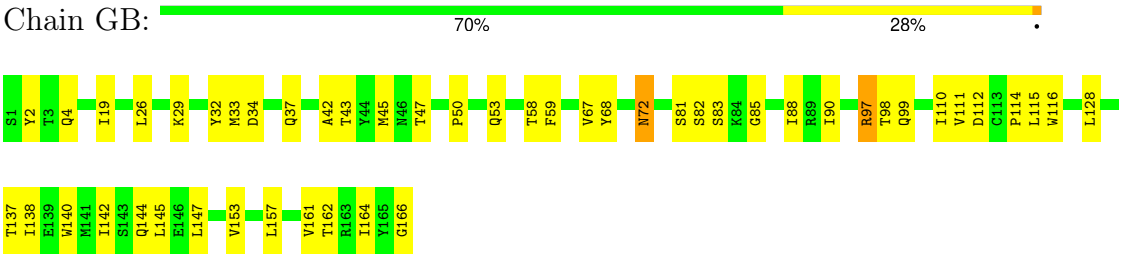
• Molecule 1: coat protein

Chain GA:



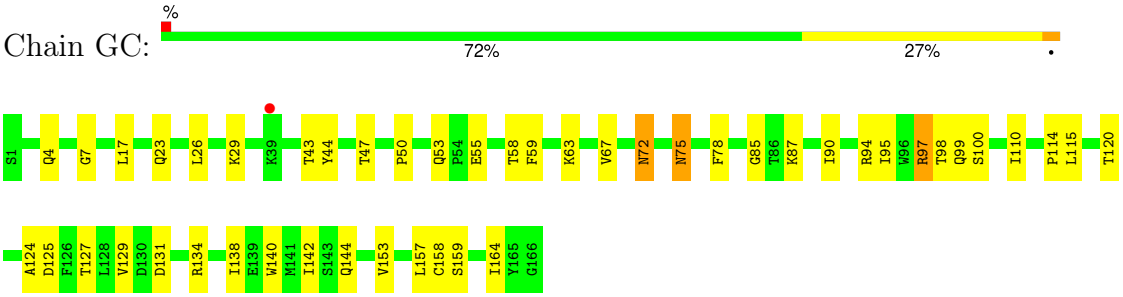
• Molecule 1: coat protein

Chain GB:



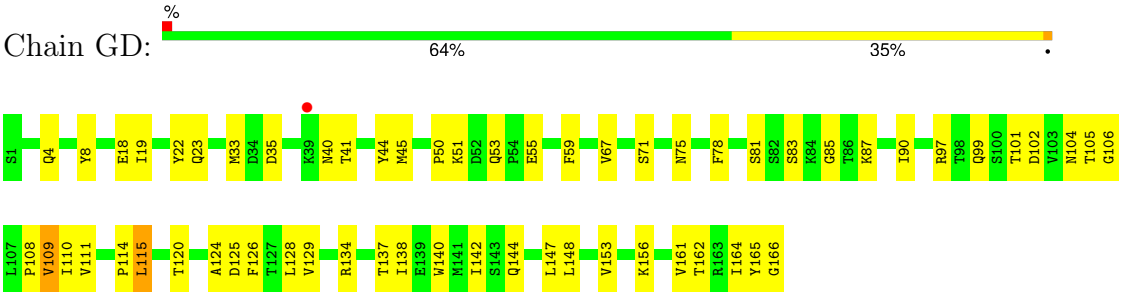
• Molecule 1: coat protein

Chain GC:



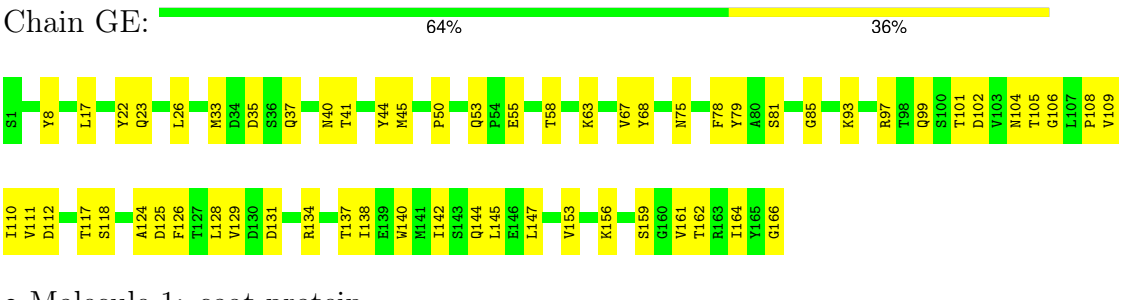
• Molecule 1: coat protein

Chain GD:



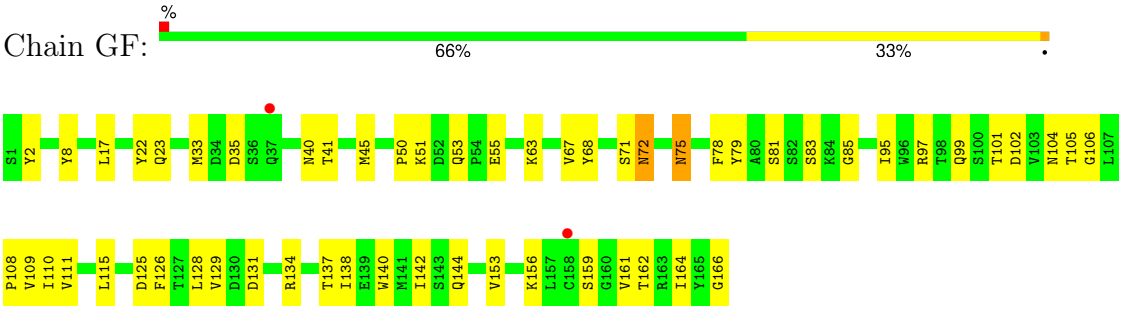
• Molecule 1: coat protein

Chain GE:



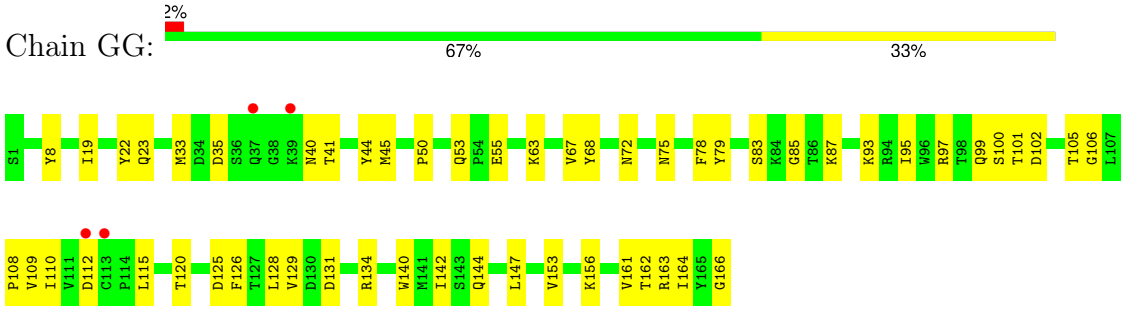
• Molecule 1: coat protein

Chain GF:



• Molecule 1: coat protein

Chain GG:



• Molecule 1: coat protein

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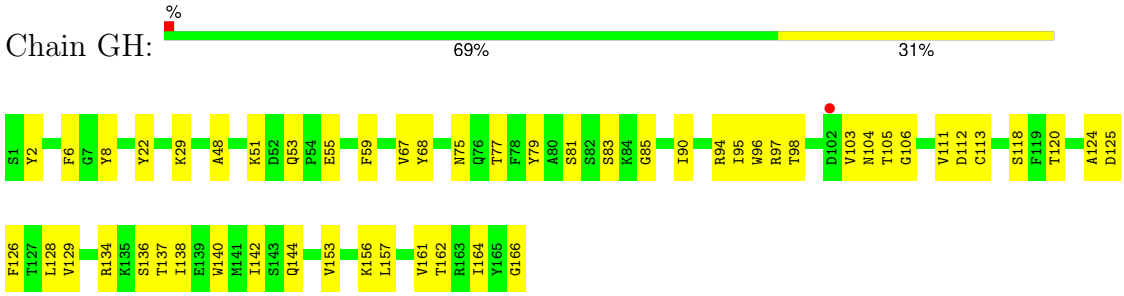
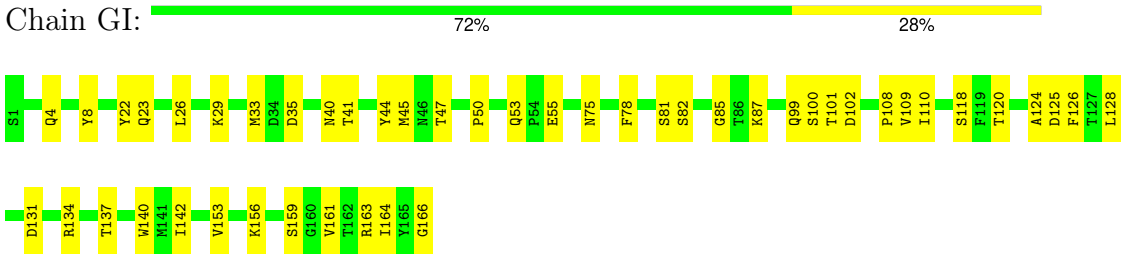


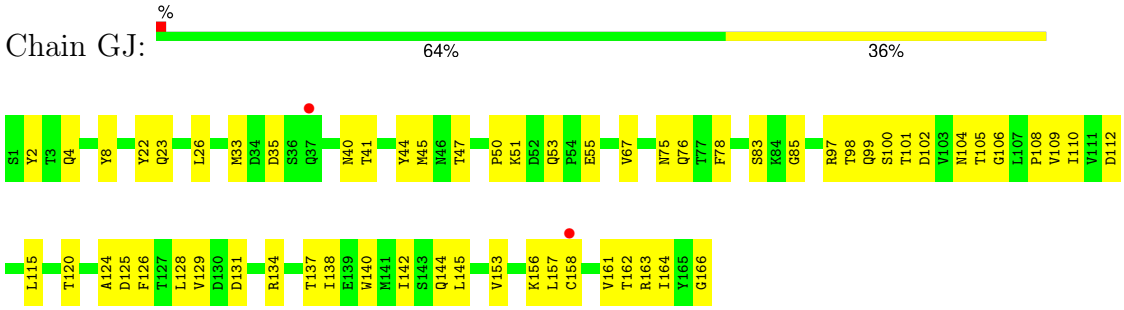
• Molecule 1: coat protein

Chain GI:



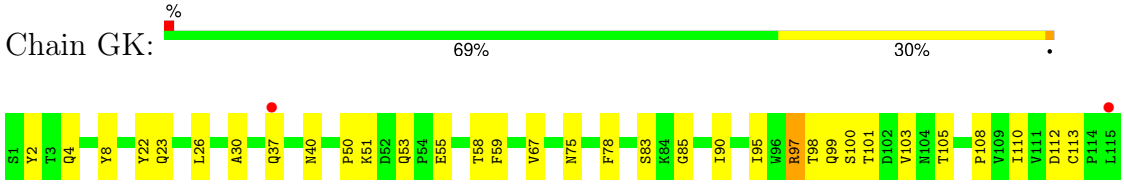
• Molecule 1: coat protein

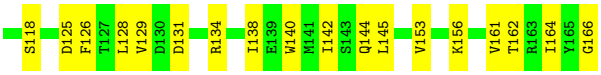
Chain GJ:



• Molecule 1: coat protein

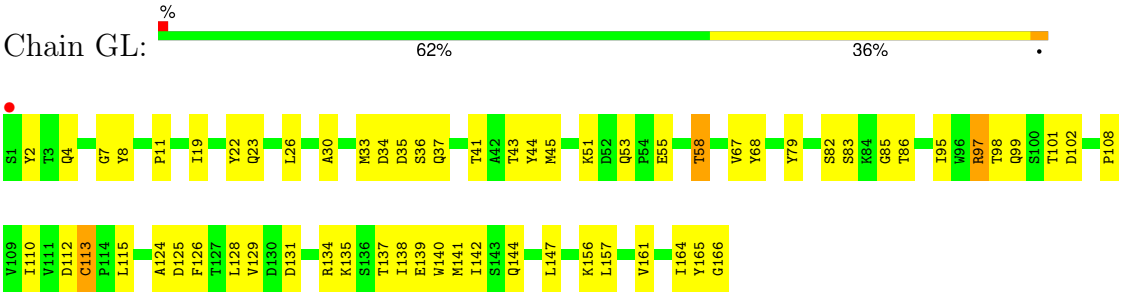
Chain GK:





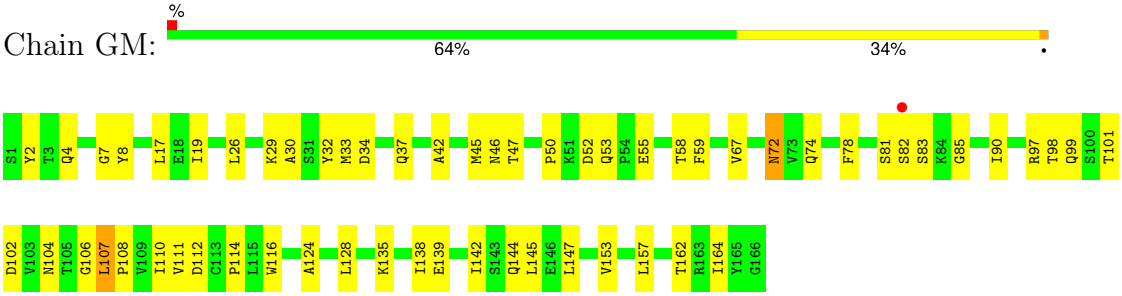
• Molecule 1: coat protein

Chain GL:



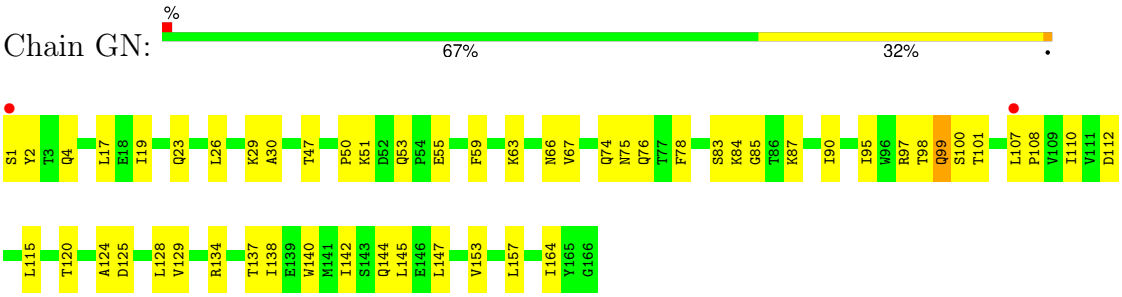
• Molecule 1: coat protein

Chain GM:



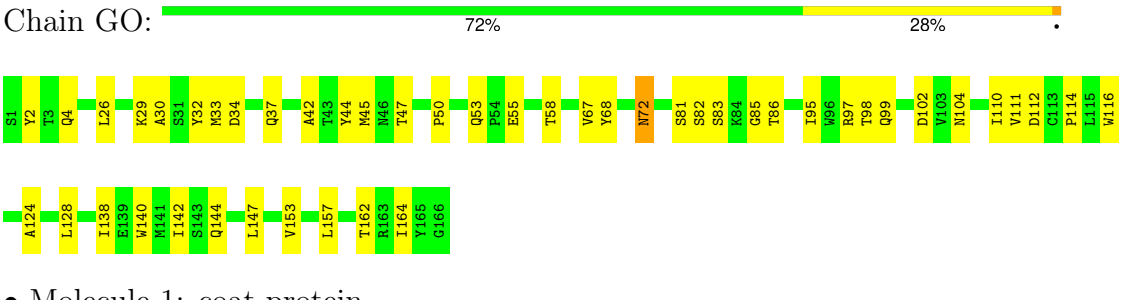
• Molecule 1: coat protein

Chain GN:



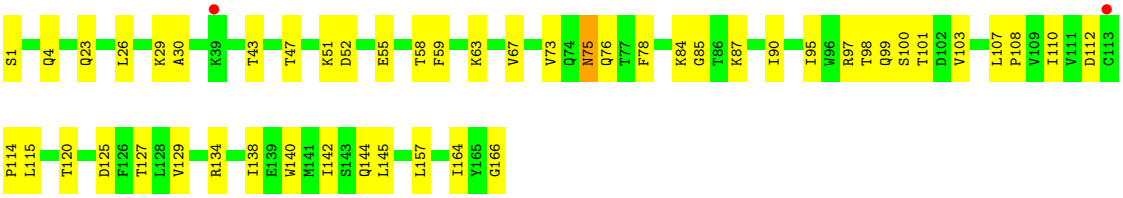
• Molecule 1: coat protein

Chain GO:



• Molecule 1: coat protein

Chain GP:



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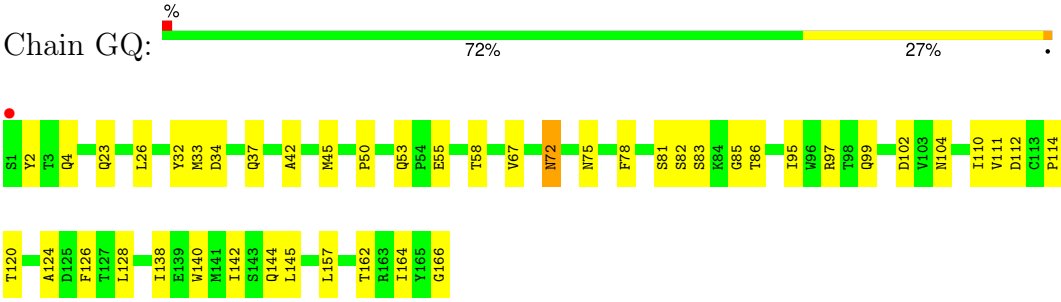
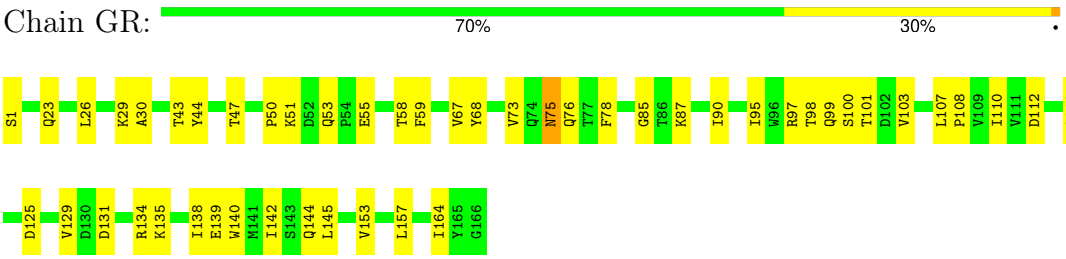
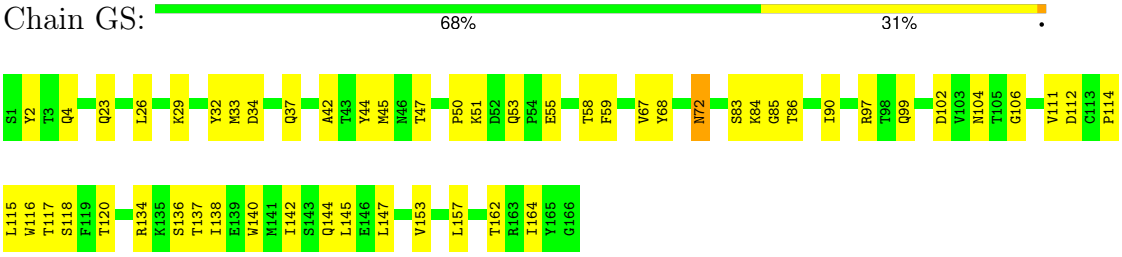


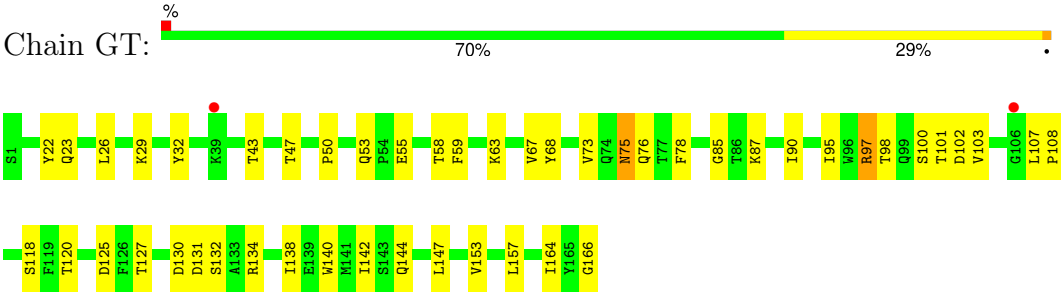
• Molecule 1: coat protein



• Molecule 1: coat protein

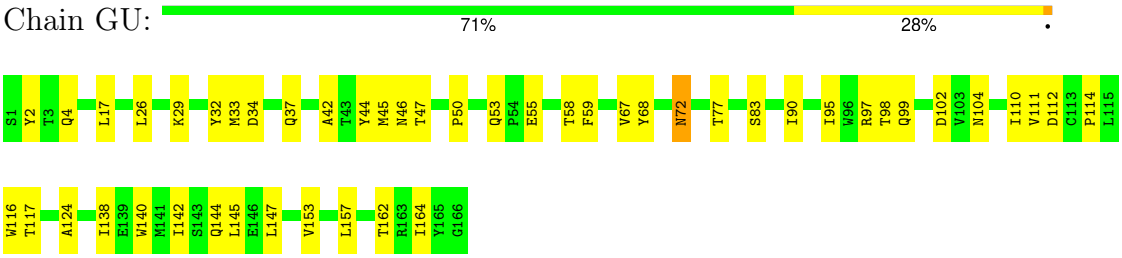


• Molecule 1: coat protein



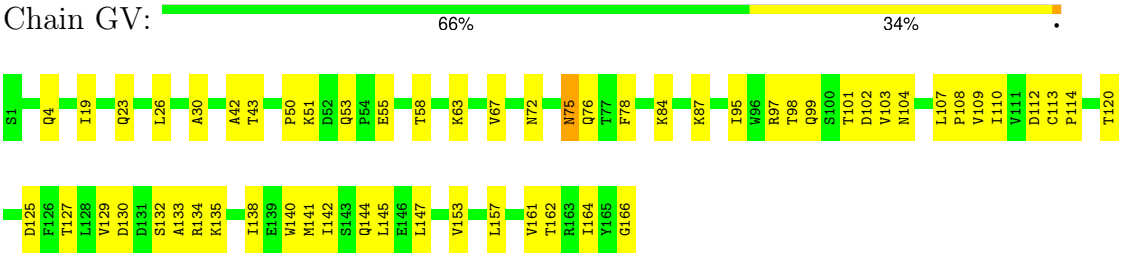
• Molecule 1: coat protein

Chain GU:



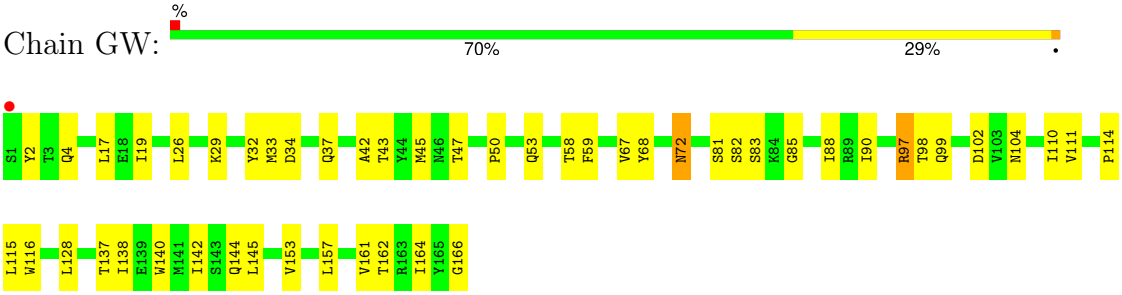
• Molecule 1: coat protein

Chain GV:



• Molecule 1: coat protein

Chain GW:



• Molecule 1: coat protein

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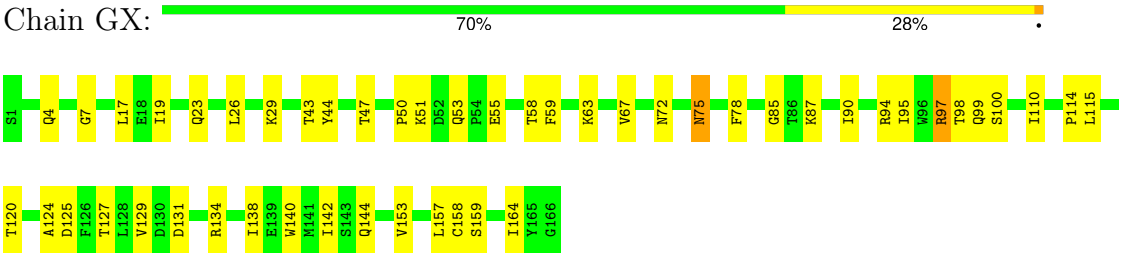
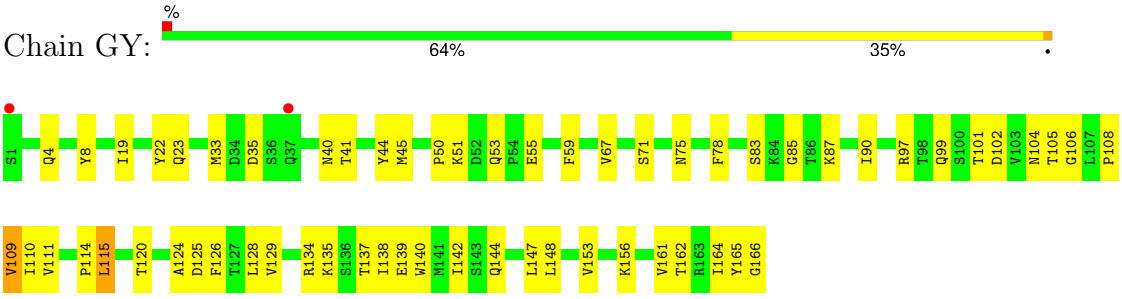


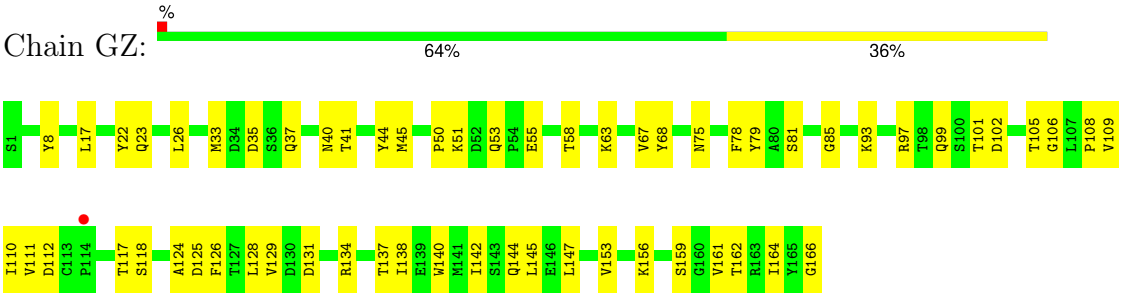
• Molecule 1: coat protein

Chain GY:



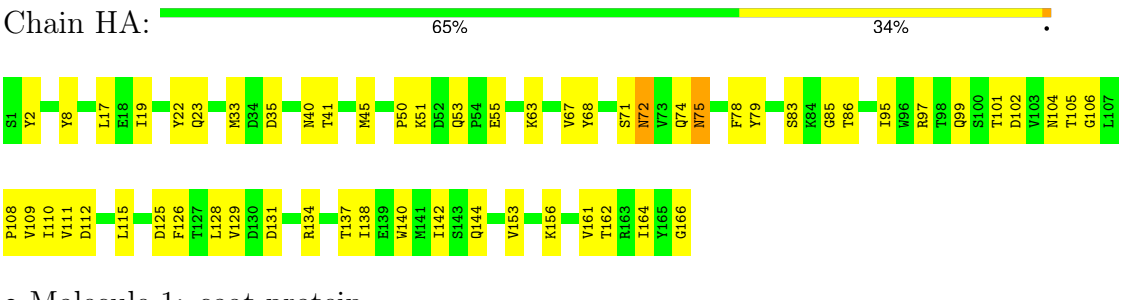
• Molecule 1: coat protein

Chain GZ:



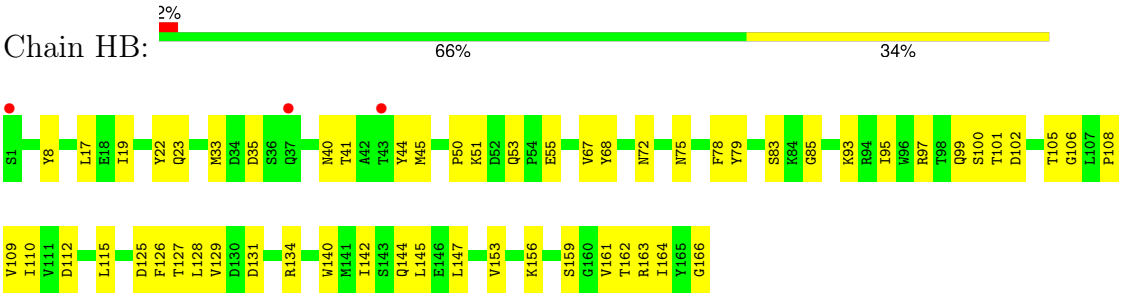
• Molecule 1: coat protein

Chain HA:



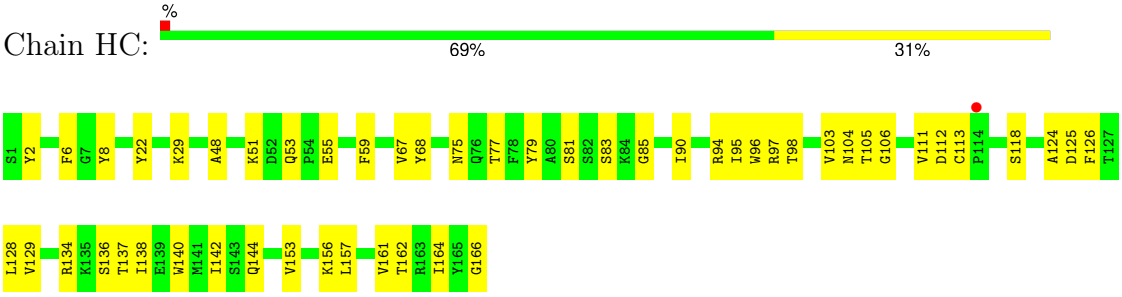
• Molecule 1: coat protein

Chain HB:



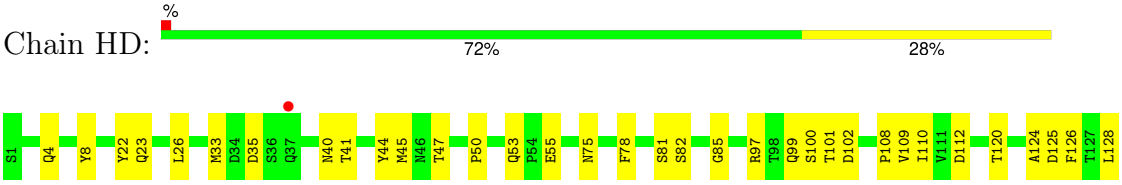
• Molecule 1: coat protein

Chain HC:



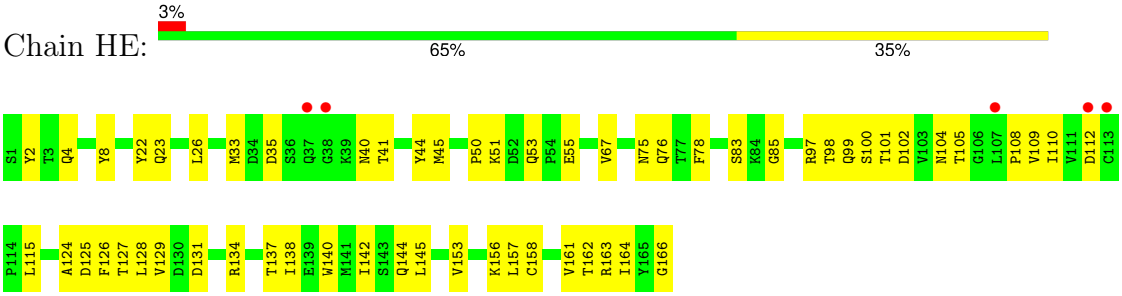
• Molecule 1: coat protein

Chain HD:



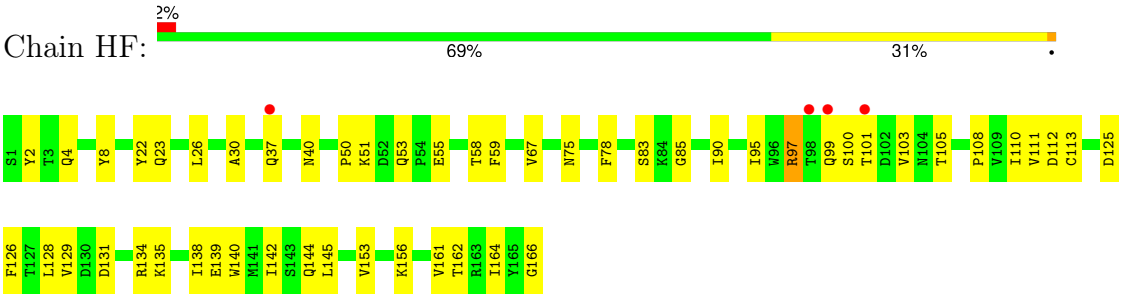
• Molecule 1: coat protein

Chain HE:



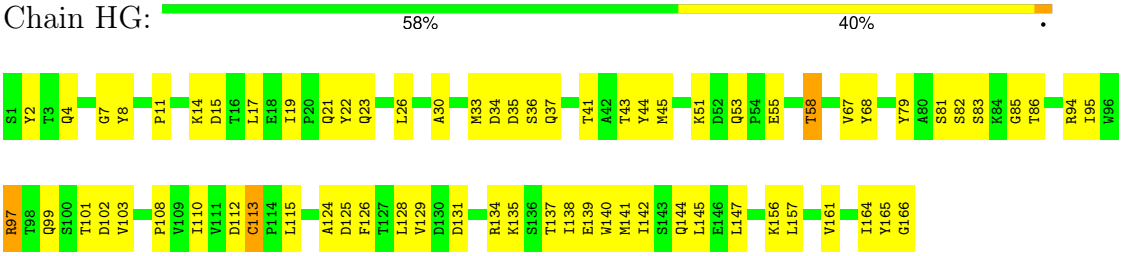
• Molecule 1: coat protein

Chain HF:



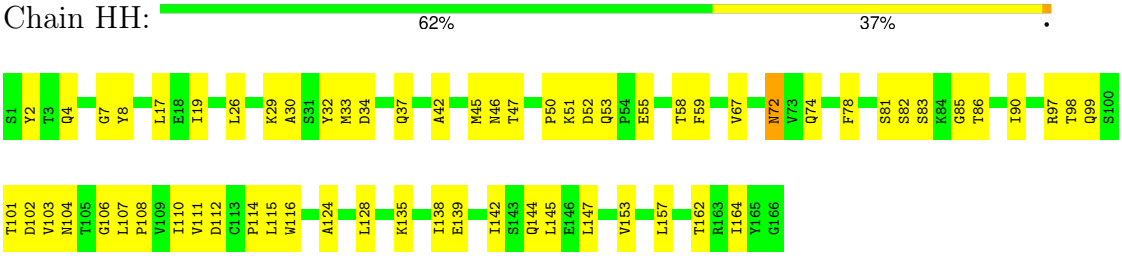
• Molecule 1: coat protein

Chain HG:



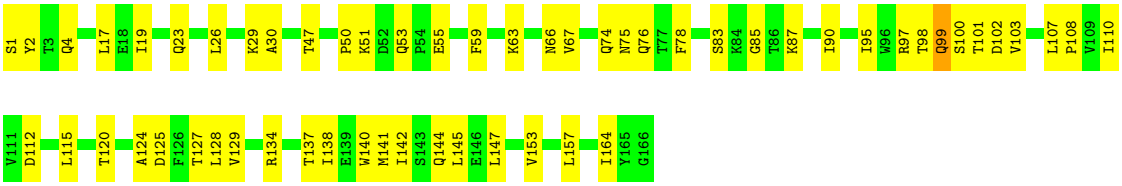
• Molecule 1: coat protein

Chain HH:



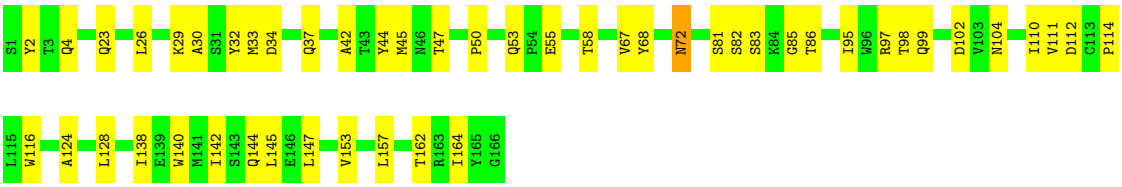
• Molecule 1: coat protein

Chain HI:



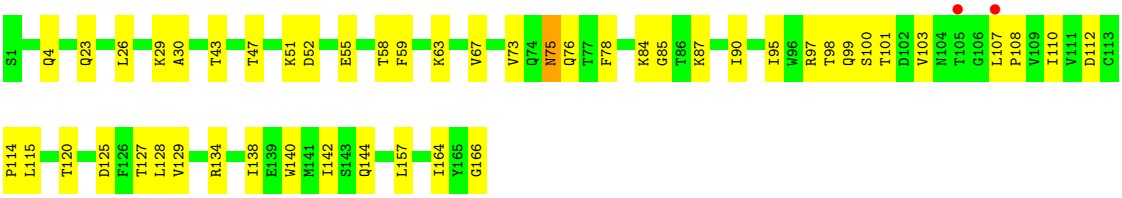
• Molecule 1: coat protein

Chain HJ:



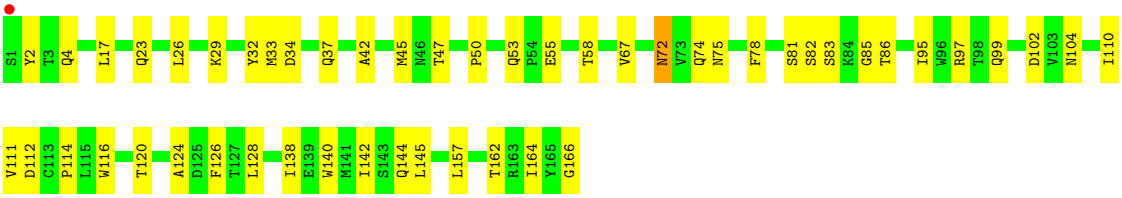
• Molecule 1: coat protein

Chain HK:



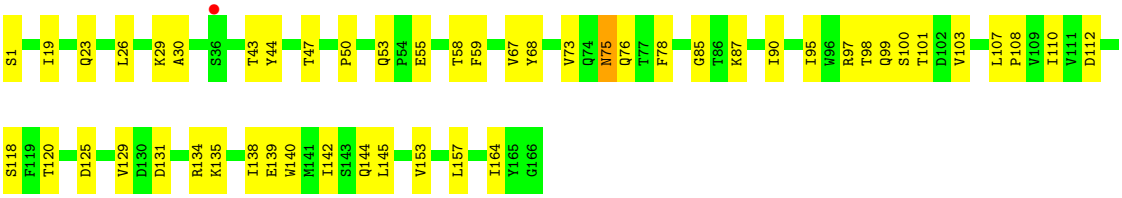
• Molecule 1: coat protein

Chain HL:



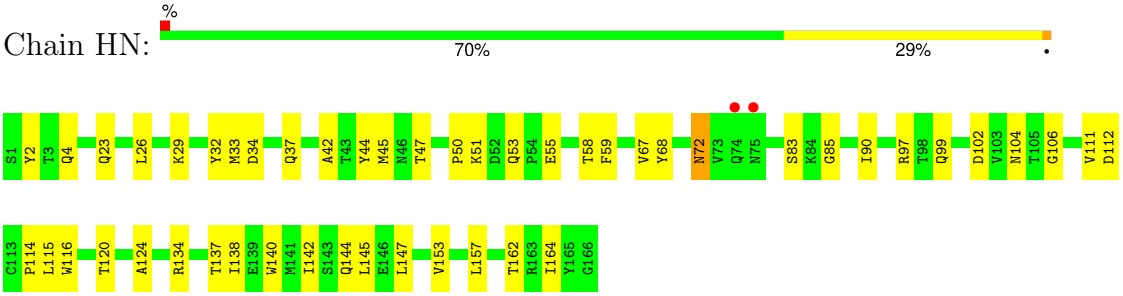
• Molecule 1: coat protein

Chain HM:



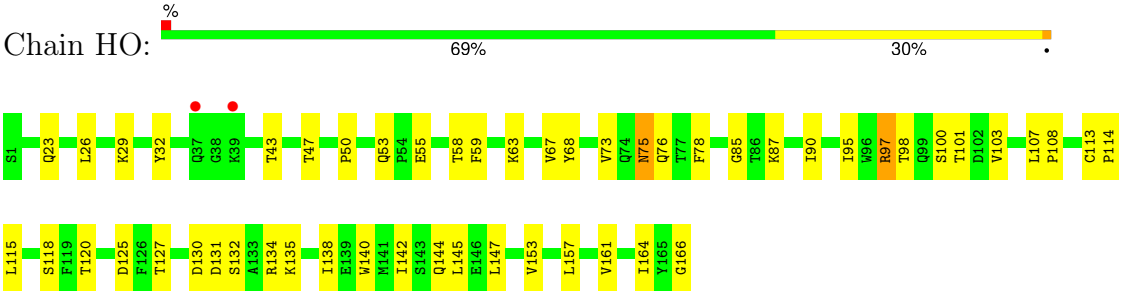
• Molecule 1: coat protein

Chain HN:



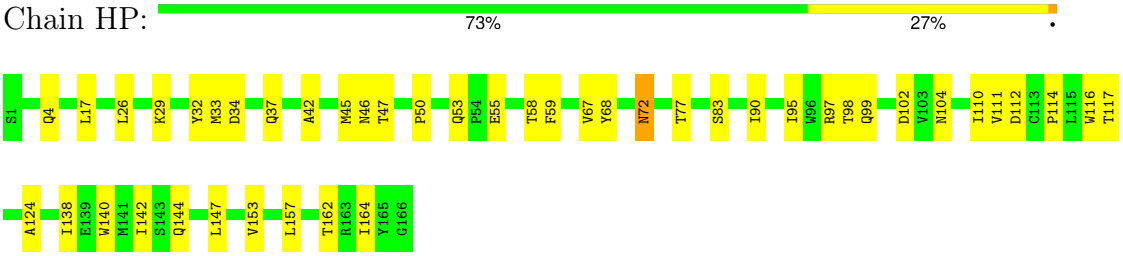
• Molecule 1: coat protein

Chain HO:



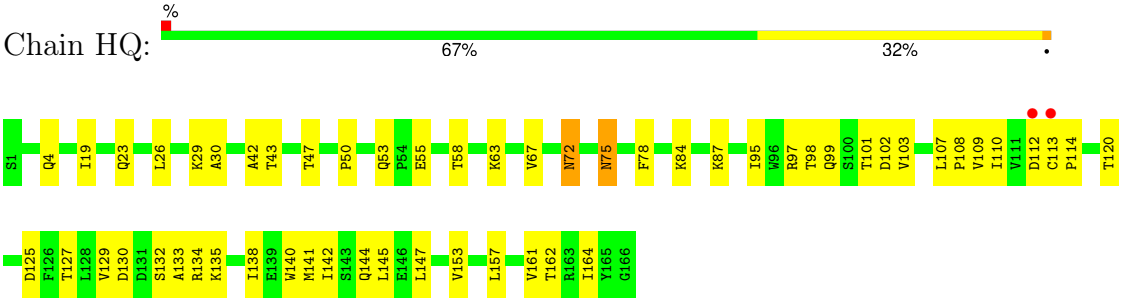
• Molecule 1: coat protein

Chain HP:



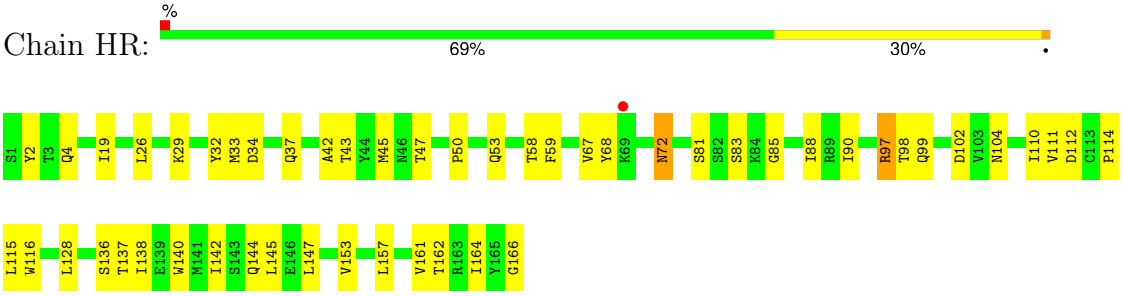
• Molecule 1: coat protein

Chain HQ:



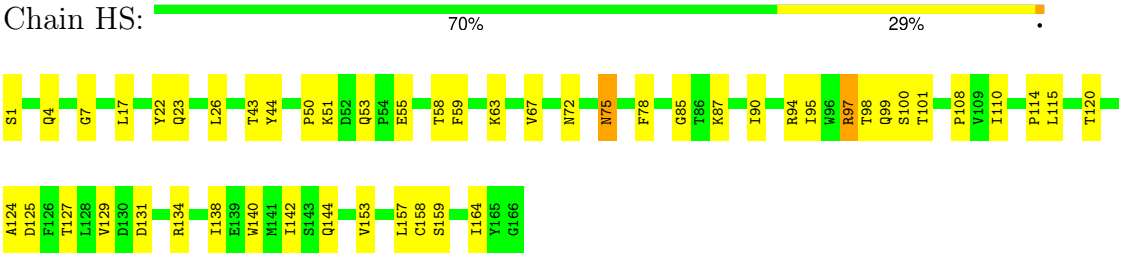
• Molecule 1: coat protein

Chain HR:



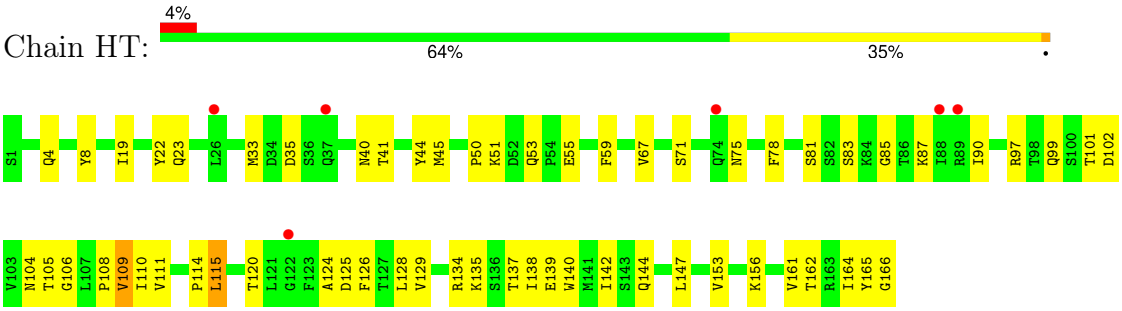
• Molecule 1: coat protein

Chain HS:



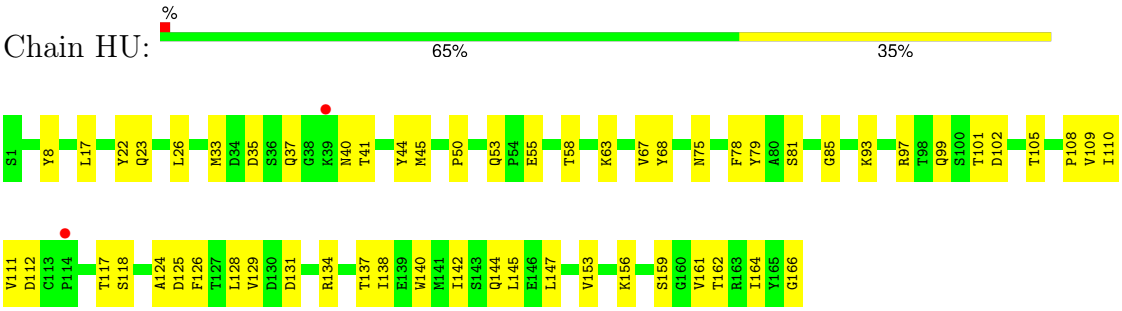
• Molecule 1: coat protein

Chain HT:



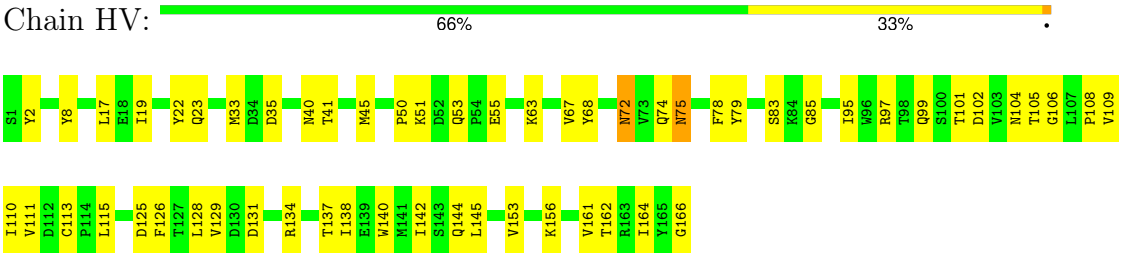
• Molecule 1: coat protein

Chain HU:



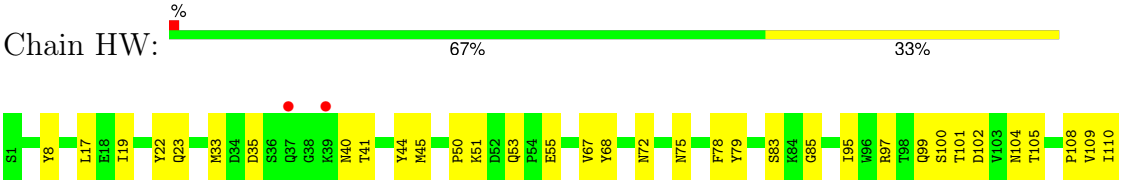
• Molecule 1: coat protein

Chain HV:



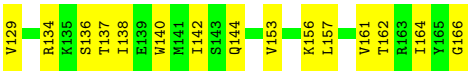
• Molecule 1: coat protein

Chain HW:



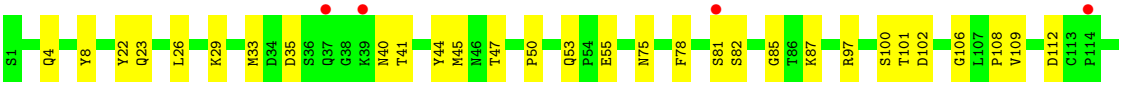
• Molecule 1: coat protein

Chain HX:



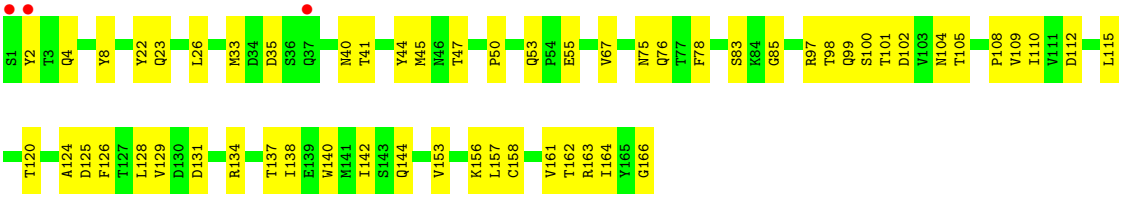
• Molecule 1: coat protein

Chain HY:



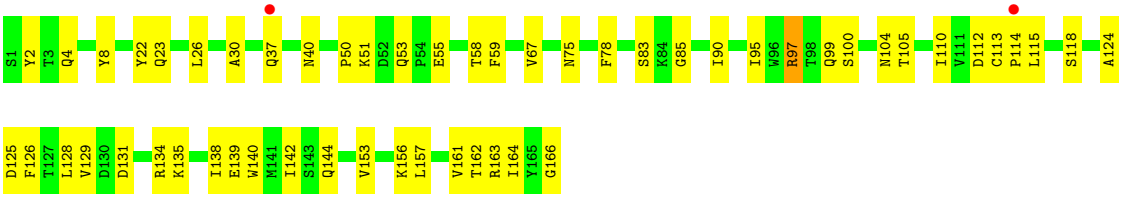
• Molecule 1: coat protein

Chain HZ:



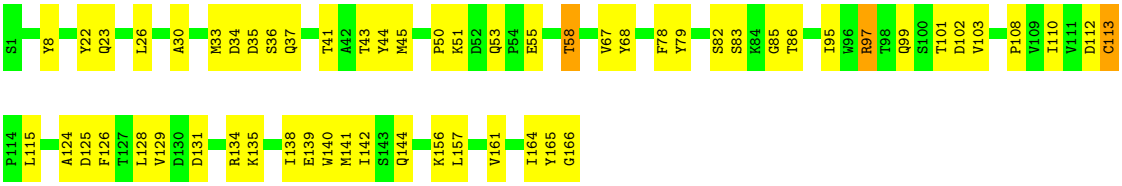
• Molecule 1: coat protein

Chain IA:



• Molecule 1: coat protein

Chain IB:


S1
Y8
Y22
Q23
L26
A30
M33
D34
D35
S36
Q37
T41
A42
T43
Y44
M45
P50
K51
D52
Q53
P54
E55
T58
V67
Y68
F78
Y79
S82
S83
K84
G85
T86
I95
W96
R97
T98
Q99
S100
T101
D102
V103
P108
V109
I110
V111
D112
C113
P114
L115
A124
D125
F126
T127
L128
V129
D130
D131
R134
K135
I138
E139
W140
M141
I142
S143
Q144
K156
L157
V161
I164
Y165
G166

4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α, β, γ	325.47Å 298.52Å 417.12Å 90.00° 100.00° 90.00°	Depositor
Resolution (Å)	49.32 – 3.59 49.32 – 3.59	Depositor EDS
% Data completeness (in resolution range)	93.0 (49.32-3.59) 93.9 (49.32-3.59)	Depositor EDS
R_{merge}	0.47	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.03 (at 3.57Å)	Xtriage
Refinement program	PHENIX 1.17.1_3660	Depositor
R, R_{free}	0.278 , 0.283 0.281 , 0.286	Depositor DCC
R_{free} test set	10000 reflections (1.17%)	wwPDB-VP
Wilson B-factor (Å^2)	101.9	Xtriage
Anisotropy	0.181	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.29 , 40.7	EDS
L-test for twinning[2]	$< \|L\| > = 0.37$, $< L^2 > = 0.20$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.86	EDS
Total number of atoms	275100	wwPDB-VP
Average B, all atoms (Å^2)	103.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.98% 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	0.44	0/1337	0.64	2/1814 (0.1%)
1	AB	0.46	0/1337	0.67	2/1814 (0.1%)
1	AC	0.43	0/1337	0.62	0/1814
1	AD	0.46	0/1337	0.69	2/1814 (0.1%)
1	AE	0.43	0/1337	0.64	0/1814
1	AF	0.46	0/1337	0.65	0/1814
1	AG	0.44	0/1337	0.65	1/1814 (0.1%)
1	AH	0.47	0/1337	0.65	2/1814 (0.1%)
1	AI	0.44	0/1337	0.65	0/1814
1	AJ	0.46	0/1337	0.68	1/1814 (0.1%)
1	AK	0.45	0/1337	0.64	1/1814 (0.1%)
1	AL	0.48	0/1337	0.68	1/1814 (0.1%)
1	AM	0.45	0/1337	0.66	2/1814 (0.1%)
1	AN	0.45	0/1337	0.65	0/1814
1	AO	0.44	0/1337	0.64	1/1814 (0.1%)
1	AP	0.44	0/1337	0.66	1/1814 (0.1%)
1	AQ	0.46	0/1337	0.65	0/1814
1	AR	0.44	0/1337	0.62	0/1814
1	AS	0.44	0/1337	0.67	1/1814 (0.1%)
1	AT	0.46	0/1337	0.67	0/1814
1	AU	0.45	0/1337	0.66	2/1814 (0.1%)
1	AV	0.44	0/1337	0.64	2/1814 (0.1%)
1	AW	0.46	0/1337	0.67	2/1814 (0.1%)
1	AX	0.43	0/1337	0.62	0/1814
1	AY	0.46	0/1337	0.69	2/1814 (0.1%)
1	AZ	0.43	0/1337	0.64	0/1814
1	BA	0.46	0/1337	0.66	0/1814
1	BB	0.44	0/1337	0.65	1/1814 (0.1%)
1	BC	0.47	0/1337	0.66	2/1814 (0.1%)
1	BD	0.44	0/1337	0.65	0/1814
1	BE	0.47	0/1337	0.68	1/1814 (0.1%)
1	BF	0.45	0/1337	0.64	1/1814 (0.1%)
1	BG	0.48	0/1337	0.68	1/1814 (0.1%)
1	BH	0.45	0/1337	0.66	2/1814 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	BI	0.45	0/1337	0.65	0/1814
1	BJ	0.44	0/1337	0.64	1/1814 (0.1%)
1	BK	0.44	0/1337	0.66	1/1814 (0.1%)
1	BL	0.46	0/1337	0.65	0/1814
1	BM	0.44	0/1337	0.62	0/1814
1	BN	0.44	0/1337	0.66	1/1814 (0.1%)
1	BO	0.46	0/1337	0.67	0/1814
1	BP	0.45	0/1337	0.66	2/1814 (0.1%)
1	BQ	0.44	0/1337	0.64	1/1814 (0.1%)
1	BR	0.46	0/1337	0.67	2/1814 (0.1%)
1	BS	0.43	0/1337	0.62	0/1814
1	BT	0.46	0/1337	0.69	2/1814 (0.1%)
1	BU	0.43	0/1337	0.64	0/1814
1	BV	0.46	0/1337	0.65	0/1814
1	BW	0.44	0/1337	0.65	1/1814 (0.1%)
1	BX	0.47	0/1337	0.66	2/1814 (0.1%)
1	BY	0.44	0/1337	0.65	0/1814
1	BZ	0.47	0/1337	0.68	1/1814 (0.1%)
1	CA	0.45	0/1337	0.64	1/1814 (0.1%)
1	CB	0.48	0/1337	0.68	1/1814 (0.1%)
1	CC	0.46	0/1337	0.66	2/1814 (0.1%)
1	CD	0.45	0/1337	0.65	0/1814
1	CE	0.44	0/1337	0.64	1/1814 (0.1%)
1	CF	0.44	0/1337	0.66	1/1814 (0.1%)
1	CG	0.46	0/1337	0.65	0/1814
1	CH	0.44	0/1337	0.62	0/1814
1	CI	0.44	0/1337	0.67	1/1814 (0.1%)
1	CJ	0.46	0/1337	0.67	0/1814
1	CK	0.45	0/1337	0.66	2/1814 (0.1%)
1	CL	0.44	0/1337	0.64	2/1814 (0.1%)
1	CM	0.46	0/1337	0.67	2/1814 (0.1%)
1	CN	0.43	0/1337	0.62	0/1814
1	CO	0.46	0/1337	0.69	2/1814 (0.1%)
1	CP	0.43	0/1337	0.64	0/1814
1	CQ	0.46	0/1337	0.65	0/1814
1	CR	0.44	0/1337	0.65	1/1814 (0.1%)
1	CS	0.47	0/1337	0.65	2/1814 (0.1%)
1	CT	0.44	0/1337	0.65	0/1814
1	CU	0.46	0/1337	0.68	1/1814 (0.1%)
1	CV	0.45	0/1337	0.64	1/1814 (0.1%)
1	CW	0.48	0/1337	0.68	1/1814 (0.1%)
1	CX	0.45	0/1337	0.66	2/1814 (0.1%)
1	CY	0.45	0/1337	0.65	0/1814

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	CZ	0.44	0/1337	0.64	1/1814 (0.1%)
1	DA	0.44	0/1337	0.66	1/1814 (0.1%)
1	DB	0.47	0/1337	0.65	0/1814
1	DC	0.44	0/1337	0.62	0/1814
1	DD	0.44	0/1337	0.67	1/1814 (0.1%)
1	DE	0.45	0/1337	0.67	0/1814
1	DF	0.45	0/1337	0.66	2/1814 (0.1%)
1	DG	0.44	0/1337	0.64	2/1814 (0.1%)
1	DH	0.46	0/1337	0.67	2/1814 (0.1%)
1	DI	0.43	0/1337	0.62	0/1814
1	DJ	0.46	0/1337	0.69	2/1814 (0.1%)
1	DK	0.43	0/1337	0.64	0/1814
1	DL	0.46	0/1337	0.66	0/1814
1	DM	0.44	0/1337	0.65	1/1814 (0.1%)
1	DN	0.47	0/1337	0.65	2/1814 (0.1%)
1	DO	0.44	0/1337	0.65	0/1814
1	DP	0.46	0/1337	0.68	1/1814 (0.1%)
1	DQ	0.45	0/1337	0.64	1/1814 (0.1%)
1	DR	0.48	0/1337	0.68	1/1814 (0.1%)
1	DS	0.45	0/1337	0.66	2/1814 (0.1%)
1	DT	0.45	0/1337	0.65	0/1814
1	DU	0.44	0/1337	0.64	1/1814 (0.1%)
1	DV	0.44	0/1337	0.66	1/1814 (0.1%)
1	DW	0.46	0/1337	0.65	0/1814
1	DX	0.44	0/1337	0.62	0/1814
1	DY	0.44	0/1337	0.67	1/1814 (0.1%)
1	DZ	0.46	0/1337	0.67	0/1814
1	EA	0.45	0/1337	0.66	2/1814 (0.1%)
1	EB	0.44	0/1337	0.64	2/1814 (0.1%)
1	EC	0.46	0/1337	0.67	2/1814 (0.1%)
1	ED	0.42	0/1337	0.62	0/1814
1	EE	0.46	0/1337	0.69	2/1814 (0.1%)
1	EF	0.43	0/1337	0.64	0/1814
1	EG	0.45	0/1337	0.66	0/1814
1	EH	0.44	0/1337	0.65	1/1814 (0.1%)
1	EI	0.47	0/1337	0.66	2/1814 (0.1%)
1	EJ	0.44	0/1337	0.65	0/1814
1	EK	0.46	0/1337	0.68	2/1814 (0.1%)
1	EL	0.45	0/1337	0.64	1/1814 (0.1%)
1	EM	0.48	0/1337	0.68	1/1814 (0.1%)
1	EN	0.46	0/1337	0.66	2/1814 (0.1%)
1	EO	0.45	0/1337	0.65	0/1814
1	EP	0.44	0/1337	0.64	1/1814 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	EQ	0.44	0/1337	0.66	1/1814 (0.1%)
1	ER	0.47	0/1337	0.65	0/1814
1	ES	0.44	0/1337	0.62	0/1814
1	ET	0.44	0/1337	0.67	1/1814 (0.1%)
1	EU	0.46	0/1337	0.67	0/1814
1	EV	0.45	0/1337	0.66	2/1814 (0.1%)
1	EW	0.44	0/1337	0.64	2/1814 (0.1%)
1	EX	0.46	0/1337	0.67	2/1814 (0.1%)
1	EY	0.43	0/1337	0.62	0/1814
1	EZ	0.46	0/1337	0.69	2/1814 (0.1%)
1	FA	0.43	0/1337	0.64	0/1814
1	FB	0.46	0/1337	0.66	0/1814
1	FC	0.44	0/1337	0.65	1/1814 (0.1%)
1	FD	0.47	0/1337	0.65	2/1814 (0.1%)
1	FE	0.44	0/1337	0.65	0/1814
1	FF	0.46	0/1337	0.68	1/1814 (0.1%)
1	FG	0.45	0/1337	0.64	1/1814 (0.1%)
1	FH	0.48	0/1337	0.68	1/1814 (0.1%)
1	FI	0.45	0/1337	0.66	2/1814 (0.1%)
1	FJ	0.45	0/1337	0.65	0/1814
1	FK	0.44	0/1337	0.64	1/1814 (0.1%)
1	FL	0.44	0/1337	0.66	1/1814 (0.1%)
1	FM	0.47	0/1337	0.65	0/1814
1	FN	0.44	0/1337	0.62	0/1814
1	FO	0.44	0/1337	0.67	1/1814 (0.1%)
1	FP	0.46	0/1337	0.67	0/1814
1	FQ	0.45	0/1337	0.65	2/1814 (0.1%)
1	FR	0.44	0/1337	0.64	2/1814 (0.1%)
1	FS	0.46	0/1337	0.67	2/1814 (0.1%)
1	FT	0.42	0/1337	0.62	0/1814
1	FU	0.46	0/1337	0.69	2/1814 (0.1%)
1	FV	0.43	0/1337	0.64	0/1814
1	FW	0.45	0/1337	0.66	0/1814
1	FX	0.44	0/1337	0.65	1/1814 (0.1%)
1	FY	0.47	0/1337	0.65	2/1814 (0.1%)
1	FZ	0.44	0/1337	0.65	0/1814
1	GA	0.46	0/1337	0.68	1/1814 (0.1%)
1	GB	0.45	0/1337	0.64	1/1814 (0.1%)
1	GC	0.48	0/1337	0.68	1/1814 (0.1%)
1	GD	0.45	0/1337	0.66	2/1814 (0.1%)
1	GE	0.45	0/1337	0.65	0/1814
1	GF	0.44	0/1337	0.64	1/1814 (0.1%)
1	GG	0.44	0/1337	0.66	1/1814 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	GH	0.47	0/1337	0.65	0/1814
1	GI	0.44	0/1337	0.62	0/1814
1	GJ	0.44	0/1337	0.67	1/1814 (0.1%)
1	GK	0.46	0/1337	0.67	0/1814
1	GL	0.45	0/1337	0.65	2/1814 (0.1%)
1	GM	0.44	0/1337	0.64	1/1814 (0.1%)
1	GN	0.46	0/1337	0.67	2/1814 (0.1%)
1	GO	0.43	0/1337	0.62	0/1814
1	GP	0.46	0/1337	0.69	2/1814 (0.1%)
1	GQ	0.43	0/1337	0.64	0/1814
1	GR	0.46	0/1337	0.65	0/1814
1	GS	0.44	0/1337	0.65	1/1814 (0.1%)
1	GT	0.47	0/1337	0.65	2/1814 (0.1%)
1	GU	0.44	0/1337	0.65	0/1814
1	GV	0.46	0/1337	0.68	1/1814 (0.1%)
1	GW	0.45	0/1337	0.64	1/1814 (0.1%)
1	GX	0.48	0/1337	0.68	1/1814 (0.1%)
1	GY	0.45	0/1337	0.66	2/1814 (0.1%)
1	GZ	0.45	0/1337	0.65	0/1814
1	HA	0.44	0/1337	0.64	1/1814 (0.1%)
1	HB	0.44	0/1337	0.66	1/1814 (0.1%)
1	HC	0.47	0/1337	0.65	0/1814
1	HD	0.44	0/1337	0.62	0/1814
1	HE	0.44	0/1337	0.67	1/1814 (0.1%)
1	HF	0.46	0/1337	0.67	0/1814
1	HG	0.45	0/1337	0.66	2/1814 (0.1%)
1	HH	0.44	0/1337	0.64	2/1814 (0.1%)
1	HI	0.46	0/1337	0.67	2/1814 (0.1%)
1	HJ	0.43	0/1337	0.62	0/1814
1	HK	0.46	0/1337	0.69	2/1814 (0.1%)
1	HL	0.43	0/1337	0.64	0/1814
1	HM	0.46	0/1337	0.65	0/1814
1	HN	0.44	0/1337	0.65	1/1814 (0.1%)
1	HO	0.47	0/1337	0.65	2/1814 (0.1%)
1	HP	0.44	0/1337	0.65	0/1814
1	HQ	0.46	0/1337	0.68	1/1814 (0.1%)
1	HR	0.45	0/1337	0.64	1/1814 (0.1%)
1	HS	0.48	0/1337	0.68	1/1814 (0.1%)
1	HT	0.46	0/1337	0.66	2/1814 (0.1%)
1	HU	0.45	0/1337	0.65	0/1814
1	HV	0.44	0/1337	0.64	1/1814 (0.1%)
1	HW	0.44	0/1337	0.66	1/1814 (0.1%)
1	HX	0.47	0/1337	0.65	0/1814

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	HY	0.44	0/1337	0.62	0/1814
1	HZ	0.44	0/1337	0.67	1/1814 (0.1%)
1	IA	0.46	0/1337	0.67	0/1814
1	IB	0.45	0/1337	0.66	2/1814 (0.1%)
All	All	0.45	0/280770	0.65	189/380940 (0.0%)

There are no bond length outliers.

All (189) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	GX	63	LYS	CD-CE-NZ	6.53	126.72	111.70
1	EM	63	LYS	CD-CE-NZ	6.52	126.70	111.70
1	BG	63	LYS	CD-CE-NZ	6.52	126.69	111.70
1	FH	63	LYS	CD-CE-NZ	6.52	126.69	111.70
1	HS	63	LYS	CD-CE-NZ	6.52	126.69	111.70
1	AL	63	LYS	CD-CE-NZ	6.51	126.68	111.70
1	GC	63	LYS	CD-CE-NZ	6.51	126.67	111.70
1	DR	63	LYS	CD-CE-NZ	6.50	126.65	111.70
1	CB	63	LYS	CD-CE-NZ	6.50	126.64	111.70
1	CW	63	LYS	CD-CE-NZ	6.50	126.65	111.70
1	FL	115	LEU	CA-CB-CG	6.10	129.34	115.30
1	GG	115	LEU	CA-CB-CG	6.10	129.33	115.30
1	BK	115	LEU	CA-CB-CG	6.10	129.32	115.30
1	AP	115	LEU	CA-CB-CG	6.09	129.31	115.30
1	HB	115	LEU	CA-CB-CG	6.09	129.31	115.30
1	CF	115	LEU	CA-CB-CG	6.09	129.31	115.30
1	DA	115	LEU	CA-CB-CG	6.09	129.30	115.30
1	EQ	115	LEU	CA-CB-CG	6.08	129.29	115.30
1	HW	115	LEU	CA-CB-CG	6.08	129.29	115.30
1	DV	115	LEU	CA-CB-CG	6.08	129.27	115.30
1	AV	107	LEU	CB-CG-CD2	-5.78	101.18	111.00
1	DG	107	LEU	CB-CG-CD2	-5.77	101.19	111.00
1	EW	107	LEU	CB-CG-CD2	-5.77	101.20	111.00
1	BQ	107	LEU	CB-CG-CD2	-5.77	101.20	111.00
1	AA	107	LEU	CB-CG-CD2	-5.76	101.20	111.00
1	GM	107	LEU	CB-CG-CD2	-5.76	101.20	111.00
1	HH	107	LEU	CB-CG-CD2	-5.75	101.23	111.00
1	FR	107	LEU	CB-CG-CD2	-5.75	101.23	111.00
1	EB	107	LEU	CB-CG-CD2	-5.74	101.24	111.00
1	CL	107	LEU	CB-CG-CD2	-5.74	101.25	111.00
1	FQ	58	THR	CA-CB-CG2	-5.74	104.37	112.40
1	DF	58	THR	CA-CB-CG2	-5.74	104.37	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	EV	58	THR	CA-CB-CG2	-5.71	104.40	112.40
1	AU	58	THR	CA-CB-CG2	-5.71	104.41	112.40
1	BC	63	LYS	CD-CE-NZ	5.71	124.83	111.70
1	EA	58	THR	CA-CB-CG2	-5.71	104.41	112.40
1	GL	58	THR	CA-CB-CG2	-5.70	104.42	112.40
1	BX	63	LYS	CD-CE-NZ	5.70	124.81	111.70
1	HO	63	LYS	CD-CE-NZ	5.70	124.81	111.70
1	IB	58	THR	CA-CB-CG2	-5.70	104.42	112.40
1	CK	58	THR	CA-CB-CG2	-5.70	104.43	112.40
1	AH	63	LYS	CD-CE-NZ	5.69	124.79	111.70
1	FY	63	LYS	CD-CE-NZ	5.69	124.80	111.70
1	HG	58	THR	CA-CB-CG2	-5.69	104.43	112.40
1	HG	115	LEU	CA-CB-CG	5.69	128.38	115.30
1	BP	58	THR	CA-CB-CG2	-5.68	104.44	112.40
1	FD	63	LYS	CD-CE-NZ	5.68	124.77	111.70
1	GL	115	LEU	CA-CB-CG	5.68	128.37	115.30
1	CM	63	LYS	CD-CE-NZ	5.68	124.77	111.70
1	CS	63	LYS	CD-CE-NZ	5.68	124.77	111.70
1	HI	63	LYS	CD-CE-NZ	5.68	124.77	111.70
1	EC	63	LYS	CD-CE-NZ	5.68	124.77	111.70
1	FS	63	LYS	CD-CE-NZ	5.68	124.77	111.70
1	GT	63	LYS	CD-CE-NZ	5.68	124.77	111.70
1	DN	63	LYS	CD-CE-NZ	5.68	124.76	111.70
1	EI	63	LYS	CD-CE-NZ	5.68	124.76	111.70
1	AW	63	LYS	CD-CE-NZ	5.68	124.76	111.70
1	IB	115	LEU	CA-CB-CG	5.67	128.35	115.30
1	AB	63	LYS	CD-CE-NZ	5.67	124.75	111.70
1	BP	115	LEU	CA-CB-CG	5.67	128.34	115.30
1	BR	63	LYS	CD-CE-NZ	5.67	124.74	111.70
1	DF	115	LEU	CA-CB-CG	5.67	128.34	115.30
1	DH	63	LYS	CD-CE-NZ	5.67	124.74	111.70
1	EX	63	LYS	CD-CE-NZ	5.67	124.74	111.70
1	AU	115	LEU	CA-CB-CG	5.67	128.34	115.30
1	EA	115	LEU	CA-CB-CG	5.67	128.34	115.30
1	EV	115	LEU	CA-CB-CG	5.67	128.34	115.30
1	GN	63	LYS	CD-CE-NZ	5.67	124.73	111.70
1	FQ	115	LEU	CA-CB-CG	5.67	128.33	115.30
1	CK	115	LEU	CA-CB-CG	5.65	128.30	115.30
1	BT	63	LYS	CD-CE-NZ	5.63	124.65	111.70
1	FU	63	LYS	CD-CE-NZ	5.63	124.64	111.70
1	EZ	63	LYS	CD-CE-NZ	5.62	124.64	111.70
1	HK	63	LYS	CD-CE-NZ	5.62	124.62	111.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	EE	63	LYS	CD-CE-NZ	5.62	124.62	111.70
1	AD	63	LYS	CD-CE-NZ	5.62	124.61	111.70
1	CO	63	LYS	CD-CE-NZ	5.62	124.61	111.70
1	GP	63	LYS	CD-CE-NZ	5.62	124.61	111.70
1	AY	63	LYS	CD-CE-NZ	5.61	124.61	111.70
1	DJ	63	LYS	CD-CE-NZ	5.61	124.60	111.70
1	BR	115	LEU	CA-CB-CG	5.33	127.55	115.30
1	CM	115	LEU	CA-CB-CG	5.32	127.53	115.30
1	EX	115	LEU	CA-CB-CG	5.32	127.53	115.30
1	AB	115	LEU	CA-CB-CG	5.31	127.51	115.30
1	AW	115	LEU	CA-CB-CG	5.31	127.51	115.30
1	EC	115	LEU	CA-CB-CG	5.30	127.50	115.30
1	FS	115	LEU	CA-CB-CG	5.30	127.50	115.30
1	HI	115	LEU	CA-CB-CG	5.30	127.49	115.30
1	GN	115	LEU	CA-CB-CG	5.30	127.48	115.30
1	DH	115	LEU	CA-CB-CG	5.29	127.48	115.30
1	FO	115	LEU	CA-CB-CG	5.27	127.42	115.30
1	FY	115	LEU	CA-CB-CG	5.27	127.42	115.30
1	BN	115	LEU	CA-CB-CG	5.26	127.41	115.30
1	CA	115	LEU	CA-CB-CG	5.26	127.39	115.30
1	DD	115	LEU	CA-CB-CG	5.26	127.39	115.30
1	ET	115	LEU	CA-CB-CG	5.26	127.39	115.30
1	HO	115	LEU	CA-CB-CG	5.25	127.38	115.30
1	DN	115	LEU	CA-CB-CG	5.25	127.38	115.30
1	DQ	115	LEU	CA-CB-CG	5.25	127.38	115.30
1	GT	115	LEU	CA-CB-CG	5.25	127.38	115.30
1	AS	115	LEU	CA-CB-CG	5.25	127.38	115.30
1	DY	115	LEU	CA-CB-CG	5.25	127.37	115.30
1	GJ	115	LEU	CA-CB-CG	5.25	127.37	115.30
1	CV	115	LEU	CA-CB-CG	5.25	127.37	115.30
1	EL	115	LEU	CA-CB-CG	5.25	127.36	115.30
1	HE	115	LEU	CA-CB-CG	5.25	127.36	115.30
1	GB	115	LEU	CA-CB-CG	5.24	127.36	115.30
1	AH	115	LEU	CA-CB-CG	5.24	127.35	115.30
1	BC	115	LEU	CA-CB-CG	5.24	127.35	115.30
1	HZ	115	LEU	CA-CB-CG	5.24	127.35	115.30
1	AK	115	LEU	CA-CB-CG	5.24	127.34	115.30
1	FD	115	LEU	CA-CB-CG	5.24	127.34	115.30
1	FG	115	LEU	CA-CB-CG	5.24	127.34	115.30
1	HR	115	LEU	CA-CB-CG	5.24	127.34	115.30
1	BX	115	LEU	CA-CB-CG	5.23	127.34	115.30
1	GW	115	LEU	CA-CB-CG	5.23	127.33	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	BF	115	LEU	CA-CB-CG	5.23	127.33	115.30
1	CI	115	LEU	CA-CB-CG	5.23	127.33	115.30
1	CS	115	LEU	CA-CB-CG	5.23	127.33	115.30
1	EI	115	LEU	CA-CB-CG	5.23	127.33	115.30
1	BT	115	LEU	CA-CB-CG	5.20	127.25	115.30
1	DJ	115	LEU	CA-CB-CG	5.20	127.25	115.30
1	HK	115	LEU	CA-CB-CG	5.20	127.25	115.30
1	AY	115	LEU	CA-CB-CG	5.19	127.23	115.30
1	EE	115	LEU	CA-CB-CG	5.19	127.23	115.30
1	FU	115	LEU	CA-CB-CG	5.18	127.22	115.30
1	AD	115	LEU	CA-CB-CG	5.18	127.21	115.30
1	EZ	115	LEU	CA-CB-CG	5.18	127.21	115.30
1	FF	63	LYS	CD-CE-NZ	5.18	123.61	111.70
1	BZ	63	LYS	CD-CE-NZ	5.17	123.60	111.70
1	BE	63	LYS	CD-CE-NZ	5.17	123.59	111.70
1	CO	115	LEU	CA-CB-CG	5.17	127.19	115.30
1	CU	63	LYS	CD-CE-NZ	5.17	123.59	111.70
1	GV	63	LYS	CD-CE-NZ	5.16	123.57	111.70
1	GP	115	LEU	CA-CB-CG	5.16	127.17	115.30
1	EK	63	LYS	CD-CE-NZ	5.16	123.57	111.70
1	HQ	63	LYS	CD-CE-NZ	5.16	123.56	111.70
1	AJ	63	LYS	CD-CE-NZ	5.16	123.56	111.70
1	DP	63	LYS	CD-CE-NZ	5.16	123.56	111.70
1	GA	63	LYS	CD-CE-NZ	5.15	123.55	111.70
1	HT	109	VAL	CG1-CB-CG2	-5.15	102.66	110.90
1	EP	115	LEU	CA-CB-CG	5.14	127.12	115.30
1	AO	115	LEU	CA-CB-CG	5.14	127.12	115.30
1	CE	115	LEU	CA-CB-CG	5.14	127.12	115.30
1	HA	115	LEU	CA-CB-CG	5.14	127.12	115.30
1	FK	115	LEU	CA-CB-CG	5.13	127.11	115.30
1	GF	115	LEU	CA-CB-CG	5.13	127.11	115.30
1	DU	115	LEU	CA-CB-CG	5.13	127.10	115.30
1	HV	115	LEU	CA-CB-CG	5.13	127.11	115.30
1	BJ	115	LEU	CA-CB-CG	5.13	127.10	115.30
1	CC	109	VAL	CG1-CB-CG2	-5.12	102.70	110.90
1	CZ	115	LEU	CA-CB-CG	5.12	127.08	115.30
1	GD	109	VAL	CG1-CB-CG2	-5.12	102.71	110.90
1	BH	109	VAL	CG1-CB-CG2	-5.12	102.71	110.90
1	FI	109	VAL	CG1-CB-CG2	-5.12	102.72	110.90
1	AM	109	VAL	CG1-CB-CG2	-5.11	102.72	110.90
1	CX	109	VAL	CG1-CB-CG2	-5.11	102.72	110.90
1	GY	109	VAL	CG1-CB-CG2	-5.09	102.75	110.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	DS	109	VAL	CG1-CB-CG2	-5.09	102.76	110.90
1	EN	109	VAL	CG1-CB-CG2	-5.09	102.76	110.90
1	BB	115	LEU	CA-CB-CG	5.05	126.91	115.30
1	HN	115	LEU	CA-CB-CG	5.04	126.89	115.30
1	EH	115	LEU	CA-CB-CG	5.04	126.89	115.30
1	AG	115	LEU	CA-CB-CG	5.04	126.88	115.30
1	GS	115	LEU	CA-CB-CG	5.04	126.88	115.30
1	DM	115	LEU	CA-CB-CG	5.04	126.88	115.30
1	GD	115	LEU	CA-CB-CG	5.03	126.88	115.30
1	HT	115	LEU	CA-CB-CG	5.03	126.87	115.30
1	FC	115	LEU	CA-CB-CG	5.03	126.87	115.30
1	GY	115	LEU	CA-CB-CG	5.03	126.87	115.30
1	CR	115	LEU	CA-CB-CG	5.03	126.86	115.30
1	FX	115	LEU	CA-CB-CG	5.03	126.86	115.30
1	BW	115	LEU	CA-CB-CG	5.02	126.85	115.30
1	CX	115	LEU	CA-CB-CG	5.02	126.85	115.30
1	EB	115	LEU	CA-CB-CG	5.02	126.85	115.30
1	FI	115	LEU	CA-CB-CG	5.02	126.84	115.30
1	EK	134	ARG	NE-CZ-NH2	5.02	122.81	120.30
1	AM	115	LEU	CA-CB-CG	5.01	126.83	115.30
1	BH	115	LEU	CA-CB-CG	5.01	126.83	115.30
1	HH	115	LEU	CA-CB-CG	5.01	126.83	115.30
1	DG	115	LEU	CA-CB-CG	5.01	126.83	115.30
1	CC	115	LEU	CA-CB-CG	5.01	126.82	115.30
1	FR	115	LEU	CA-CB-CG	5.01	126.82	115.30
1	AA	115	LEU	CA-CB-CG	5.01	126.82	115.30
1	EW	115	LEU	CA-CB-CG	5.01	126.82	115.30
1	CL	115	LEU	CA-CB-CG	5.00	126.81	115.30
1	AV	115	LEU	CA-CB-CG	5.00	126.80	115.30
1	DS	115	LEU	CA-CB-CG	5.00	126.81	115.30
1	EN	115	LEU	CA-CB-CG	5.00	126.80	115.30

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	1310	0	1289	65	0
1	AB	1310	0	1289	69	0
1	AC	1310	0	1289	50	0
1	AD	1310	0	1289	51	0
1	AE	1310	0	1289	52	0
1	AF	1310	0	1289	50	0
1	AG	1310	0	1289	54	0
1	AH	1310	0	1289	50	0
1	AI	1310	0	1289	57	0
1	AJ	1310	0	1289	56	0
1	AK	1310	0	1289	58	0
1	AL	1310	0	1289	52	0
1	AM	1310	0	1289	66	0
1	AN	1310	0	1289	67	0
1	AO	1310	0	1289	66	0
1	AP	1310	0	1289	62	0
1	AQ	1310	0	1289	62	0
1	AR	1310	0	1289	45	0
1	AS	1310	0	1289	76	0
1	AT	1310	0	1289	63	0
1	AU	1310	0	1289	74	0
1	AV	1310	0	1289	68	0
1	AW	1310	0	1289	66	0
1	AX	1310	0	1289	51	0
1	AY	1310	0	1289	48	0
1	AZ	1310	0	1289	55	0
1	BA	1310	0	1289	54	0
1	BB	1310	0	1289	52	0
1	BC	1310	0	1289	45	0
1	BD	1310	0	1289	44	0
1	BE	1310	0	1289	53	0
1	BF	1310	0	1289	54	0
1	BG	1310	0	1289	48	0
1	BH	1310	0	1289	64	0
1	BI	1310	0	1289	62	0
1	BJ	1310	0	1289	64	0
1	BK	1310	0	1289	65	0
1	BL	1310	0	1289	60	0
1	BM	1310	0	1289	47	0
1	BN	1310	0	1289	70	0
1	BO	1310	0	1289	57	0
1	BP	1310	0	1289	69	0
1	BQ	1310	0	1289	65	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	BR	1310	0	1289	63	0
1	BS	1310	0	1289	52	0
1	BT	1310	0	1289	51	0
1	BU	1310	0	1289	55	1
1	BV	1310	0	1289	53	0
1	BW	1310	0	1289	49	0
1	BX	1310	0	1289	48	0
1	BY	1310	0	1289	46	0
1	BZ	1310	0	1289	50	0
1	CA	1310	0	1289	52	0
1	CB	1310	0	1289	50	0
1	CC	1310	0	1289	67	0
1	CD	1310	0	1289	66	1
1	CE	1310	0	1289	67	0
1	CF	1310	0	1289	64	0
1	CG	1310	0	1289	62	0
1	CH	1310	0	1289	47	0
1	CI	1310	0	1289	71	0
1	CJ	1310	0	1289	57	1
1	CK	1310	0	1289	63	0
1	CL	1310	0	1289	69	0
1	CM	1310	0	1289	68	0
1	CN	1310	0	1289	54	0
1	CO	1310	0	1289	50	0
1	CP	1310	0	1289	54	0
1	CQ	1310	0	1289	52	0
1	CR	1310	0	1289	55	0
1	CS	1310	0	1289	49	0
1	CT	1310	0	1289	44	0
1	CU	1310	0	1289	49	0
1	CV	1310	0	1289	56	0
1	CW	1310	0	1289	48	0
1	CX	1310	0	1289	62	0
1	CY	1310	0	1289	63	0
1	CZ	1310	0	1289	64	0
1	DA	1310	0	1289	63	0
1	DB	1310	0	1289	60	0
1	DC	1310	0	1289	48	1
1	DD	1310	0	1289	70	0
1	DE	1310	0	1289	59	0
1	DF	1310	0	1289	72	0
1	DG	1310	0	1289	75	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	DH	1310	0	1289	75	0
1	DI	1310	0	1289	51	0
1	DJ	1310	0	1289	49	0
1	DK	1310	0	1289	57	0
1	DL	1310	0	1289	53	0
1	DM	1310	0	1289	48	0
1	DN	1310	0	1289	51	0
1	DO	1310	0	1289	48	0
1	DP	1310	0	1289	49	0
1	DQ	1310	0	1289	54	0
1	DR	1310	0	1289	50	0
1	DS	1310	0	1289	62	0
1	DT	1310	0	1289	65	0
1	DU	1310	0	1289	64	0
1	DV	1310	0	1289	64	0
1	DW	1310	0	1289	62	0
1	DX	1310	0	1289	48	0
1	DY	1310	0	1289	72	0
1	DZ	1310	0	1289	56	0
1	EA	1310	0	1289	59	0
1	EB	1310	0	1289	68	0
1	EC	1310	0	1289	67	0
1	ED	1310	0	1289	54	0
1	EE	1310	0	1289	50	0
1	EF	1310	0	1289	54	0
1	EG	1310	0	1289	52	0
1	EH	1310	0	1289	54	0
1	EI	1310	0	1289	48	0
1	EJ	1310	0	1289	46	0
1	EK	1310	0	1289	49	0
1	EL	1310	0	1289	53	0
1	EM	1310	0	1289	46	0
1	EN	1310	0	1289	65	0
1	EO	1310	0	1289	61	0
1	EP	1310	0	1289	63	0
1	EQ	1310	0	1289	64	0
1	ER	1310	0	1289	63	0
1	ES	1310	0	1289	50	0
1	ET	1310	0	1289	73	0
1	EU	1310	0	1289	61	0
1	EV	1310	0	1289	71	0
1	EW	1310	0	1289	68	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	EX	1310	0	1289	70	0
1	EY	1310	0	1289	54	0
1	EZ	1310	0	1289	49	0
1	FA	1310	0	1289	55	0
1	FB	1310	0	1289	51	0
1	FC	1310	0	1289	47	0
1	FD	1310	0	1289	48	0
1	FE	1310	0	1289	47	0
1	FF	1310	0	1289	51	0
1	FG	1310	0	1289	53	0
1	FH	1310	0	1289	48	0
1	FI	1310	0	1289	64	0
1	FJ	1310	0	1289	64	0
1	FK	1310	0	1289	65	0
1	FL	1310	0	1289	65	0
1	FM	1310	0	1289	63	0
1	FN	1310	0	1289	47	0
1	FO	1310	0	1289	71	0
1	FP	1310	0	1289	56	0
1	FQ	1310	0	1289	64	0
1	FR	1310	0	1289	74	0
1	FS	1310	0	1289	71	0
1	FT	1310	0	1289	51	0
1	FU	1310	0	1289	50	0
1	FV	1310	0	1289	53	0
1	FW	1310	0	1289	51	1
1	FX	1310	0	1289	52	0
1	FY	1310	0	1289	50	0
1	FZ	1310	0	1289	55	0
1	GA	1310	0	1289	53	0
1	GB	1310	0	1289	54	0
1	GC	1310	0	1289	48	0
1	GD	1310	0	1289	63	1
1	GE	1310	0	1289	66	0
1	GF	1310	0	1289	64	0
1	GG	1310	0	1289	60	0
1	GH	1310	0	1289	61	0
1	GI	1310	0	1289	47	0
1	GJ	1310	0	1289	76	0
1	GK	1310	0	1289	60	0
1	GL	1310	0	1289	67	0
1	GM	1310	0	1289	66	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	GN	1310	0	1289	61	0
1	GO	1310	0	1289	50	0
1	GP	1310	0	1289	50	0
1	GQ	1310	0	1289	51	0
1	GR	1310	0	1289	52	0
1	GS	1310	0	1289	51	0
1	GT	1310	0	1289	48	0
1	GU	1310	0	1289	48	0
1	GV	1310	0	1289	51	0
1	GW	1310	0	1289	54	0
1	GX	1310	0	1289	48	0
1	GY	1310	0	1289	65	0
1	GZ	1310	0	1289	65	0
1	HA	1310	0	1289	67	0
1	HB	1310	0	1289	68	0
1	HC	1310	0	1289	59	0
1	HD	1310	0	1289	44	0
1	HE	1310	0	1289	69	0
1	HF	1310	0	1289	55	0
1	HG	1310	0	1289	76	0
1	HH	1310	0	1289	67	0
1	HI	1310	0	1289	77	0
1	HJ	1310	0	1289	52	0
1	HK	1310	0	1289	48	0
1	HL	1310	0	1289	55	0
1	HM	1310	0	1289	53	0
1	HN	1310	0	1289	51	0
1	HO	1310	0	1289	50	0
1	HP	1310	0	1289	45	0
1	HQ	1310	0	1289	51	0
1	HR	1310	0	1289	54	0
1	HS	1310	0	1289	48	0
1	HT	1310	0	1289	61	0
1	HU	1310	0	1289	62	0
1	HV	1310	0	1289	65	0
1	HW	1310	0	1289	63	0
1	HX	1310	0	1289	60	0
1	HY	1310	0	1289	46	0
1	HZ	1310	0	1289	66	0
1	IA	1310	0	1289	55	0
1	IB	1310	0	1289	58	0
All	All	275100	0	270690	8493	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 16.

All (8493) 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:EB:162:THR:HB	1:HH:34:ASP:HB3	1.26	1.14
1:AA:162:THR:HB	1:DG:34:ASP:HB3	1.36	1.07
1:AV:34:ASP:HB3	1:BQ:162:THR:HB	1.37	1.02
1:AA:155:SER:OG	1:DG:51:LYS:NZ	1.92	1.02
1:AI:162:THR:HB	1:AK:34:ASP:HB3	1.44	1.00
1:FR:82:SER:HB3	1:GY:75:ASN:HB2	1.42	1.00
1:CT:162:THR:HB	1:CV:34:ASP:HB3	1.44	1.00
1:FZ:162:THR:HB	1:GB:34:ASP:HB3	1.44	1.00
1:AB:84:LYS:H	1:DH:75:ASN:ND2	1.60	0.99
1:FE:162:THR:HB	1:FG:34:ASP:HB3	1.44	0.99
1:EC:84:LYS:H	1:HI:75:ASN:HD21	1.07	0.99
1:AW:75:ASN:HD21	1:BR:84:LYS:H	1.02	0.99
1:CL:34:ASP:HB3	1:DG:162:THR:HB	1.41	0.99
1:DO:162:THR:HB	1:DQ:34:ASP:HB3	1.44	0.98
1:EW:51:LYS:NZ	1:FR:155:SER:OG	1.96	0.98
1:BY:162:THR:HB	1:CA:34:ASP:HB3	1.44	0.97
1:BD:162:THR:HB	1:BF:34:ASP:HB3	1.44	0.97
1:GU:162:THR:HB	1:GW:34:ASP:HB3	1.44	0.97
1:HP:162:THR:HB	1:HR:34:ASP:HB3	1.44	0.97
1:BQ:34:ASP:HB3	1:CL:162:THR:HB	1.47	0.95
1:EJ:162:THR:HB	1:EL:34:ASP:HB3	1.44	0.94
1:FW:107:LEU:HD12	1:HA:111:VAL:HG21	1.46	0.94
1:EC:99:GLN:HB2	1:EC:110:ILE:HG12	1.50	0.94
1:AG:162:THR:HB	1:AI:34:ASP:HB3	1.50	0.94
1:CM:99:GLN:HB2	1:CM:110:ILE:HG12	1.50	0.94
1:GS:162:THR:HB	1:GU:34:ASP:HB3	1.50	0.93
1:BW:162:THR:HB	1:BY:34:ASP:HB3	1.50	0.93
1:HI:99:GLN:HB2	1:HI:110:ILE:HG12	1.50	0.93
1:EX:75:ASN:HD21	1:FS:84:LYS:H	0.98	0.93
1:EH:162:THR:HB	1:EJ:34:ASP:HB3	1.50	0.93
1:FX:162:THR:HB	1:FZ:34:ASP:HB3	1.50	0.93
1:BB:162:THR:HB	1:BD:34:ASP:HB3	1.50	0.92
1:HN:162:THR:HB	1:HP:34:ASP:HB3	1.50	0.92
1:FC:162:THR:HB	1:FE:34:ASP:HB3	1.50	0.92
1:CR:162:THR:HB	1:CT:34:ASP:HB3	1.50	0.92
1:DM:162:THR:HB	1:DO:34:ASP:HB3	1.50	0.92
1:AB:99:GLN:HB2	1:AB:110:ILE:HG12	1.50	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BR:99:GLN:HB2	1:BR:110:ILE:HG12	1.50	0.92
1:DH:99:GLN:HB2	1:DH:110:ILE:HG12	1.50	0.92
1:AW:99:GLN:HB2	1:AW:110:ILE:HG12	1.50	0.91
1:FS:99:GLN:HB2	1:FS:110:ILE:HG12	1.50	0.91
1:HJ:34:ASP:HB3	1:HR:162:THR:HB	1.53	0.91
1:CN:34:ASP:HB3	1:CV:162:THR:HB	1.53	0.90
1:AB:127:THR:HG21	1:DG:110:ILE:HD12	1.53	0.90
1:EY:34:ASP:HB3	1:FG:162:THR:HB	1.53	0.90
1:EX:99:GLN:HB2	1:EX:110:ILE:HG12	1.50	0.90
1:GN:99:GLN:HB2	1:GN:110:ILE:HG12	1.50	0.90
1:AV:51:LYS:NZ	1:BQ:155:SER:OG	2.05	0.90
1:ED:34:ASP:HB3	1:EL:162:THR:HB	1.53	0.90
1:CN:162:THR:HB	1:CP:34:ASP:HB3	1.55	0.89
1:FT:34:ASP:HB3	1:GB:162:THR:HB	1.53	0.89
1:EY:162:THR:HB	1:FA:34:ASP:HB3	1.55	0.89
1:BS:34:ASP:HB3	1:CA:162:THR:HB	1.53	0.89
1:DI:162:THR:HB	1:DK:34:ASP:HB3	1.55	0.89
1:ED:162:THR:HB	1:EF:34:ASP:HB3	1.55	0.89
1:EG:107:LEU:HD12	1:FK:111:VAL:HG21	1.55	0.89
1:AX:34:ASP:HB3	1:BF:162:THR:HB	1.53	0.89
1:AW:75:ASN:ND2	1:BR:84:LYS:H	1.71	0.88
1:DI:34:ASP:HB3	1:DQ:162:THR:HB	1.53	0.88
1:FR:34:ASP:HB3	1:GM:162:THR:HB	1.55	0.88
1:AX:162:THR:HB	1:AZ:34:ASP:HB3	1.55	0.88
1:AC:34:ASP:HB3	1:AK:162:THR:HB	1.53	0.88
1:CP:162:THR:HB	1:CR:34:ASP:HB3	1.56	0.88
1:AO:111:VAL:HG21	1:DL:107:LEU:HD12	1.57	0.87
1:BS:162:THR:HB	1:BU:34:ASP:HB3	1.55	0.87
1:AU:55:GLU:OE2	1:HG:140:TRP:NE1	2.07	0.87
1:FV:162:THR:HB	1:FX:34:ASP:HB3	1.56	0.87
1:FA:162:THR:HB	1:FC:34:ASP:HB3	1.56	0.87
1:GQ:116:TRP:HZ3	1:GR:67:VAL:HG13	1.40	0.87
1:GQ:162:THR:HB	1:GS:34:ASP:HB3	1.56	0.87
1:HJ:162:THR:HB	1:HL:34:ASP:HB3	1.55	0.87
1:HL:116:TRP:HZ3	1:HM:67:VAL:HG13	1.40	0.87
1:GO:34:ASP:HB3	1:GW:162:THR:HB	1.53	0.87
1:GO:162:THR:HB	1:GQ:34:ASP:HB3	1.55	0.87
1:AZ:116:TRP:HZ3	1:BA:67:VAL:HG13	1.40	0.86
1:BU:116:TRP:HZ3	1:BV:67:VAL:HG13	1.40	0.86
1:BU:162:THR:HB	1:BW:34:ASP:HB3	1.56	0.86
1:AC:162:THR:HB	1:AE:34:ASP:HB3	1.55	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:84:LYS:H	1:DH:75:ASN:HD21	0.88	0.86
1:AT:99:GLN:HB2	1:AT:110:ILE:HG12	1.58	0.86
1:CJ:99:GLN:HB2	1:CJ:110:ILE:HG12	1.58	0.85
1:EX:75:ASN:HD21	1:FS:84:LYS:N	1.75	0.85
1:FP:99:GLN:HB2	1:FP:110:ILE:HG12	1.58	0.85
1:GM:82:SER:HB3	1:HT:75:ASN:HB2	1.57	0.85
1:EB:34:ASP:HB3	1:EW:162:THR:HB	1.56	0.85
1:EC:84:LYS:H	1:HI:75:ASN:ND2	1.74	0.85
1:FV:116:TRP:HZ3	1:FW:67:VAL:HG13	1.40	0.85
1:AE:162:THR:HB	1:AG:34:ASP:HB3	1.56	0.85
1:DK:162:THR:HB	1:DM:34:ASP:HB3	1.56	0.85
1:HL:162:THR:HB	1:HN:34:ASP:HB3	1.56	0.85
1:FT:162:THR:HB	1:FV:34:ASP:HB3	1.55	0.85
1:AE:116:TRP:HZ3	1:AF:67:VAL:HG13	1.40	0.85
1:AV:82:SER:HB3	1:CC:75:ASN:HB2	1.56	0.85
1:AB:84:LYS:N	1:DH:75:ASN:HD21	1.73	0.85
1:CP:116:TRP:HZ3	1:CQ:67:VAL:HG13	1.40	0.85
1:EU:99:GLN:HB2	1:EU:110:ILE:HG12	1.58	0.85
1:FA:116:TRP:HZ3	1:FB:67:VAL:HG13	1.40	0.85
1:AZ:162:THR:HB	1:BB:34:ASP:HB3	1.56	0.84
1:BA:107:LEU:HD12	1:CE:111:VAL:HG21	1.58	0.84
1:DK:116:TRP:HZ3	1:DL:67:VAL:HG13	1.40	0.84
1:EF:116:TRP:HZ3	1:EG:67:VAL:HG13	1.40	0.84
1:EF:162:THR:HB	1:EH:34:ASP:HB3	1.56	0.84
1:IA:99:GLN:HB2	1:IA:110:ILE:HG12	1.58	0.84
1:DZ:99:GLN:HB2	1:DZ:110:ILE:HG12	1.58	0.84
1:AU:44:TYR:OH	1:HG:166:GLY:N	2.09	0.84
1:BV:99:GLN:HB2	1:BV:110:ILE:HG12	1.60	0.83
1:DE:99:GLN:HB2	1:DE:110:ILE:HG12	1.58	0.83
1:DL:99:GLN:HB2	1:DL:110:ILE:HG12	1.60	0.83
1:EX:75:ASN:CB	1:FS:82:SER:HB2	2.08	0.83
1:EL:50:PRO:HG2	1:EL:53:GLN:HB3	1.60	0.83
1:BO:99:GLN:HB2	1:BO:110:ILE:HG12	1.58	0.83
1:HF:99:GLN:HB2	1:HF:110:ILE:HG12	1.58	0.83
1:AJ:99:GLN:HB2	1:AJ:110:ILE:HG12	1.61	0.83
1:CQ:99:GLN:HB2	1:CQ:110:ILE:HG12	1.60	0.83
1:HR:50:PRO:HG2	1:HR:53:GLN:HB3	1.60	0.83
1:BF:50:PRO:HG2	1:BF:53:GLN:HB3	1.60	0.83
1:FW:99:GLN:HB2	1:FW:110:ILE:HG12	1.60	0.83
1:AU:140:TRP:HA	1:HG:22:TYR:CD2	2.13	0.83
1:GK:99:GLN:HB2	1:GK:110:ILE:HG12	1.58	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:50:PRO:HG2	1:AK:53:GLN:HB3	1.60	0.83
1:HQ:99:GLN:HB2	1:HQ:110:ILE:HG12	1.61	0.83
1:CA:50:PRO:HG2	1:CA:53:GLN:HB3	1.60	0.83
1:EB:82:SER:HB3	1:FI:75:ASN:HB2	1.60	0.83
1:HE:2:TYR:HB3	1:HF:100:SER:HB3	1.61	0.83
1:BA:99:GLN:HB2	1:BA:110:ILE:HG12	1.60	0.83
1:CU:99:GLN:HB2	1:CU:110:ILE:HG12	1.61	0.83
1:DQ:50:PRO:HG2	1:DQ:53:GLN:HB3	1.60	0.83
1:DN:51:LYS:NZ	1:HE:131:ASP:OD2	2.11	0.82
1:FZ:116:TRP:HZ3	1:GA:67:VAL:HG13	1.44	0.82
1:AM:75:ASN:HB2	1:DG:82:SER:HB3	1.61	0.82
1:BQ:82:SER:HB3	1:CX:75:ASN:HB2	1.59	0.82
1:DO:116:TRP:HZ3	1:DP:67:VAL:HG13	1.44	0.82
1:BN:2:TYR:HB3	1:BO:100:SER:HB3	1.61	0.82
1:FF:99:GLN:HB2	1:FF:110:ILE:HG12	1.61	0.82
1:HM:99:GLN:HB2	1:HM:110:ILE:HG12	1.60	0.82
1:CI:2:TYR:HB3	1:CJ:100:SER:HB3	1.61	0.82
1:CV:50:PRO:HG2	1:CV:53:GLN:HB3	1.60	0.82
1:GR:99:GLN:HB2	1:GR:110:ILE:HG12	1.60	0.82
1:BY:116:TRP:HZ3	1:BZ:67:VAL:HG13	1.44	0.82
1:FB:99:GLN:HB2	1:FB:110:ILE:HG12	1.60	0.82
1:GW:50:PRO:HG2	1:GW:53:GLN:HB3	1.60	0.82
1:ET:2:TYR:HB3	1:EU:100:SER:HB3	1.61	0.82
1:BZ:99:GLN:HB2	1:BZ:110:ILE:HG12	1.61	0.82
1:BE:99:GLN:HB2	1:BE:110:ILE:HG12	1.61	0.81
1:EG:99:GLN:HB2	1:EG:110:ILE:HG12	1.60	0.81
1:EW:34:ASP:HB3	1:FR:162:THR:HB	1.61	0.81
1:GB:50:PRO:HG2	1:GB:53:GLN:HB3	1.60	0.81
1:AF:99:GLN:HB2	1:AF:110:ILE:HG12	1.60	0.81
1:AM:99:GLN:HB2	1:AM:110:ILE:HG12	1.63	0.81
1:AS:2:TYR:HB3	1:AT:100:SER:HB3	1.61	0.81
1:BD:116:TRP:HZ3	1:BE:67:VAL:HG13	1.44	0.81
1:CC:99:GLN:HB2	1:CC:110:ILE:HG12	1.63	0.81
1:AB:157:LEU:HG	1:AB:164:ILE:HD11	1.63	0.81
1:DS:99:GLN:HB2	1:DS:110:ILE:HG12	1.63	0.81
1:EN:99:GLN:HB2	1:EN:110:ILE:HG12	1.63	0.81
1:GA:99:GLN:HB2	1:GA:110:ILE:HG12	1.61	0.81
1:GV:99:GLN:HB2	1:GV:110:ILE:HG12	1.61	0.81
1:EB:162:THR:CB	1:HH:34:ASP:HB3	2.09	0.81
1:DP:99:GLN:HB2	1:DP:110:ILE:HG12	1.61	0.81
1:DY:2:TYR:HB3	1:DZ:100:SER:HB3	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FE:116:TRP:HZ3	1:FF:67:VAL:HG13	1.44	0.81
1:FG:50:PRO:HG2	1:FG:53:GLN:HB3	1.60	0.81
1:FU:107:LEU:HD12	1:GE:111:VAL:HG21	1.63	0.81
1:GJ:2:TYR:HB3	1:GK:100:SER:HB3	1.61	0.81
1:AW:157:LEU:HG	1:AW:164:ILE:HD11	1.63	0.81
1:BV:107:LEU:HD12	1:CZ:111:VAL:HG21	1.63	0.81
1:FO:2:TYR:HB3	1:FP:100:SER:HB3	1.61	0.81
1:HI:157:LEU:HG	1:HI:164:ILE:HD11	1.63	0.81
1:GU:116:TRP:HZ3	1:GV:67:VAL:HG13	1.44	0.81
1:HP:116:TRP:HZ3	1:HQ:67:VAL:HG13	1.44	0.80
1:HT:99:GLN:HB2	1:HT:110:ILE:HG12	1.63	0.80
1:AD:107:LEU:HD12	1:AN:111:VAL:HG21	1.63	0.80
1:GN:157:LEU:HG	1:GN:164:ILE:HD11	1.63	0.80
1:GM:34:ASP:HB3	1:HH:162:THR:HB	1.64	0.80
1:AY:107:LEU:HD12	1:BI:111:VAL:HG21	1.63	0.80
1:DD:2:TYR:HB3	1:DE:100:SER:HB3	1.61	0.80
1:EC:157:LEU:HG	1:EC:164:ILE:HD11	1.63	0.80
1:BP:44:TYR:OH	1:GL:166:GLY:N	2.15	0.80
1:DH:157:LEU:HG	1:DH:164:ILE:HD11	1.63	0.80
1:EK:99:GLN:HB2	1:EK:110:ILE:HG12	1.61	0.80
1:FS:157:LEU:HG	1:FS:164:ILE:HD11	1.63	0.80
1:GD:99:GLN:HB2	1:GD:110:ILE:HG12	1.63	0.80
1:FI:99:GLN:HB2	1:FI:110:ILE:HG12	1.63	0.80
1:BH:99:GLN:HB2	1:BH:110:ILE:HG12	1.63	0.80
1:EZ:107:LEU:HD12	1:FJ:111:VAL:HG21	1.63	0.80
1:GP:107:LEU:HD12	1:GZ:111:VAL:HG21	1.63	0.80
1:HZ:2:TYR:HB3	1:IA:100:SER:HB3	1.61	0.80
1:CO:107:LEU:HD12	1:CY:111:VAL:HG21	1.63	0.79
1:CT:116:TRP:HZ3	1:CU:67:VAL:HG13	1.44	0.79
1:AI:116:TRP:HZ3	1:AJ:67:VAL:HG13	1.44	0.79
1:FW:51:LYS:NZ	1:HB:131:ASP:OD2	2.14	0.79
1:GY:99:GLN:HB2	1:GY:110:ILE:HG12	1.63	0.79
1:BT:107:LEU:HD12	1:CD:111:VAL:HG21	1.63	0.79
1:BR:157:LEU:HG	1:BR:164:ILE:HD11	1.63	0.79
1:CM:157:LEU:HG	1:CM:164:ILE:HD11	1.63	0.79
1:HK:107:LEU:HD12	1:HU:111:VAL:HG21	1.63	0.79
1:EJ:116:TRP:HZ3	1:EK:67:VAL:HG13	1.44	0.79
1:DJ:107:LEU:HD12	1:DT:111:VAL:HG21	1.63	0.79
1:CX:99:GLN:HB2	1:CX:110:ILE:HG12	1.63	0.79
1:EX:157:LEU:HG	1:EX:164:ILE:HD11	1.63	0.79
1:GP:99:GLN:HB2	1:GP:110:ILE:HG12	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:99:GLN:HB2	1:AD:110:ILE:HG12	1.66	0.78
1:EE:107:LEU:HD12	1:EO:111:VAL:HG21	1.63	0.78
1:AF:107:LEU:HD12	1:BJ:111:VAL:HG21	1.65	0.78
1:ER:51:LYS:NZ	1:EU:131:ASP:OD1	2.16	0.78
1:CL:81:SER:OG	1:DS:75:ASN:ND2	2.17	0.77
1:AY:99:GLN:HB2	1:AY:110:ILE:HG12	1.66	0.77
1:CG:51:LYS:NZ	1:CJ:131:ASP:OD1	2.16	0.77
1:FU:99:GLN:HB2	1:FU:110:ILE:HG12	1.66	0.77
1:EB:114:PRO:HG2	1:EC:67:VAL:HG12	1.67	0.77
1:AA:114:PRO:HG2	1:AB:67:VAL:HG12	1.67	0.77
1:EX:75:ASN:ND2	1:FS:84:LYS:H	1.80	0.77
1:HX:51:LYS:NZ	1:IA:131:ASP:OD1	2.16	0.77
1:BT:99:GLN:HB2	1:BT:110:ILE:HG12	1.66	0.77
1:EW:114:PRO:HG2	1:EX:67:VAL:HG12	1.67	0.77
1:HH:114:PRO:HG2	1:HI:67:VAL:HG12	1.67	0.77
1:HK:99:GLN:HB2	1:HK:110:ILE:HG12	1.66	0.77
1:BQ:114:PRO:HG2	1:BR:67:VAL:HG12	1.67	0.77
1:DW:51:LYS:NZ	1:DZ:131:ASP:OD1	2.16	0.77
1:DY:47:THR:HG21	1:GV:161:VAL:HG22	1.67	0.77
1:EW:110:ILE:HD12	1:FS:127:THR:HG21	1.67	0.77
1:CS:103:VAL:HG23	1:DV:104:ASN:O	1.85	0.76
1:DG:114:PRO:HG2	1:DH:67:VAL:HG12	1.67	0.76
1:CO:99:GLN:HB2	1:CO:110:ILE:HG12	1.66	0.76
1:FB:107:LEU:HD12	1:GF:111:VAL:HG21	1.66	0.76
1:AA:34:ASP:HB3	1:AV:162:THR:HB	1.64	0.76
1:DJ:99:GLN:HB2	1:DJ:110:ILE:HG12	1.66	0.76
1:AQ:51:LYS:NZ	1:AT:131:ASP:OD1	2.16	0.76
1:CL:82:SER:HB3	1:DS:75:ASN:HB2	1.67	0.76
1:DB:51:LYS:NZ	1:DE:131:ASP:OD1	2.16	0.76
1:EZ:99:GLN:HB2	1:EZ:110:ILE:HG12	1.66	0.76
1:GM:114:PRO:HG2	1:GN:67:VAL:HG12	1.67	0.76
1:AV:110:ILE:HD12	1:BR:127:THR:HG21	1.67	0.75
1:FN:50:PRO:HG2	1:FN:53:GLN:HB3	1.69	0.75
1:AV:114:PRO:HG2	1:AW:67:VAL:HG12	1.67	0.75
1:DC:50:PRO:HG2	1:DC:53:GLN:HB3	1.69	0.75
1:GI:50:PRO:HG2	1:GI:53:GLN:HB3	1.69	0.75
1:EO:35:ASP:HB2	1:EO:41:THR:O	1.87	0.75
1:FM:51:LYS:NZ	1:FP:131:ASP:OD1	2.16	0.75
1:GM:116:TRP:HZ3	1:GN:67:VAL:HG13	1.52	0.75
1:AA:82:SER:HB3	1:BH:75:ASN:HB2	1.69	0.75
1:AU:144:GLN:HA	1:HG:23:GLN:HB2	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BY:50:PRO:HG2	1:BY:53:GLN:HB3	1.69	0.75
1:CL:114:PRO:HG2	1:CM:67:VAL:HG12	1.67	0.75
1:EN:75:ASN:ND2	1:HH:81:SER:OG	2.18	0.75
1:FJ:35:ASP:HB2	1:FJ:41:THR:O	1.87	0.75
1:GH:51:LYS:NZ	1:GK:131:ASP:OD1	2.17	0.75
1:AI:50:PRO:HG2	1:AI:53:GLN:HB3	1.69	0.75
1:BD:50:PRO:HG2	1:BD:53:GLN:HB3	1.69	0.75
1:DS:35:ASP:HB2	1:DS:41:THR:O	1.87	0.75
1:FR:82:SER:HB3	1:GY:75:ASN:CB	2.16	0.75
1:AN:81:SER:HG	1:AN:126:PHE:HE1	1.35	0.75
1:CH:50:PRO:HG2	1:CH:53:GLN:HB3	1.69	0.75
1:FR:114:PRO:HG2	1:FS:67:VAL:HG12	1.67	0.75
1:BL:51:LYS:NZ	1:BO:131:ASP:OD1	2.16	0.75
1:CT:50:PRO:HG2	1:CT:53:GLN:HB3	1.69	0.75
1:DO:50:PRO:HG2	1:DO:53:GLN:HB3	1.69	0.75
1:EJ:50:PRO:HG2	1:EJ:53:GLN:HB3	1.69	0.75
1:FI:35:ASP:HB2	1:FI:41:THR:O	1.87	0.75
1:HH:116:TRP:HZ3	1:HI:67:VAL:HG13	1.52	0.75
1:HU:35:ASP:HB2	1:HU:41:THR:O	1.87	0.75
1:AN:35:ASP:HB2	1:AN:41:THR:O	1.87	0.74
1:EB:116:TRP:HZ3	1:EC:67:VAL:HG13	1.52	0.74
1:EW:116:TRP:HZ3	1:EX:67:VAL:HG13	1.52	0.74
1:GD:35:ASP:HB2	1:GD:41:THR:O	1.87	0.74
1:CD:35:ASP:HB2	1:CD:41:THR:O	1.87	0.74
1:DX:50:PRO:HG2	1:DX:53:GLN:HB3	1.69	0.74
1:GE:35:ASP:HB2	1:GE:41:THR:O	1.87	0.74
1:AV:116:TRP:HZ3	1:AW:67:VAL:HG13	1.52	0.74
1:BQ:116:TRP:HZ3	1:BR:67:VAL:HG13	1.52	0.74
1:DG:116:TRP:HZ3	1:DH:67:VAL:HG13	1.52	0.74
1:DT:35:ASP:HB2	1:DT:41:THR:O	1.87	0.74
1:EN:35:ASP:HB2	1:EN:41:THR:O	1.87	0.74
1:BI:35:ASP:HB2	1:BI:41:THR:O	1.87	0.74
1:EE:99:GLN:HB2	1:EE:110:ILE:HG12	1.66	0.74
1:GZ:35:ASP:HB2	1:GZ:41:THR:O	1.87	0.74
1:HC:51:LYS:NZ	1:HF:131:ASP:OD1	2.17	0.74
1:HP:50:PRO:HG2	1:HP:53:GLN:HB3	1.69	0.74
1:BH:35:ASP:HB2	1:BH:41:THR:O	1.87	0.74
1:CY:35:ASP:HB2	1:CY:41:THR:O	1.87	0.74
1:AP:35:ASP:HB2	1:AP:41:THR:O	1.88	0.74
1:CL:106:GLY:HA3	1:DH:1:SER:N	2.03	0.74
1:EC:107:LEU:HD12	1:EN:111:VAL:HG21	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ES:50:PRO:HG2	1:ES:53:GLN:HB3	1.69	0.74
1:HT:35:ASP:HB2	1:HT:41:THR:O	1.87	0.74
1:HW:35:ASP:HB2	1:HW:41:THR:O	1.88	0.74
1:EX:75:ASN:HB3	1:FS:82:SER:HB2	1.69	0.74
1:FE:50:PRO:HG2	1:FE:53:GLN:HB3	1.69	0.74
1:GY:35:ASP:HB2	1:GY:41:THR:O	1.87	0.74
1:AQ:134:ARG:O	1:AQ:137:THR:HG22	1.88	0.74
1:BK:35:ASP:HB2	1:BK:41:THR:O	1.88	0.74
1:FR:116:TRP:HZ3	1:FS:67:VAL:HG13	1.52	0.74
1:CC:35:ASP:HB2	1:CC:41:THR:O	1.87	0.74
1:CI:97:ARG:NH1	1:CI:112:ASP:OD2	2.21	0.74
1:CX:35:ASP:HB2	1:CX:41:THR:O	1.87	0.74
1:FS:107:LEU:HD12	1:GD:111:VAL:HG21	1.70	0.74
1:GU:50:PRO:HG2	1:GU:53:GLN:HB3	1.69	0.74
1:AR:50:PRO:HG2	1:AR:53:GLN:HB3	1.69	0.73
1:GE:81:SER:HG	1:GE:126:PHE:HE1	1.33	0.73
1:HD:50:PRO:HG2	1:HD:53:GLN:HB3	1.69	0.73
1:AB:107:LEU:HD12	1:AM:111:VAL:HG21	1.70	0.73
1:BN:97:ARG:NH1	1:BN:112:ASP:OD2	2.21	0.73
1:GM:106:GLY:HA3	1:HI:1:SER:N	2.02	0.73
1:BU:114:PRO:HG2	1:BV:67:VAL:HG12	1.71	0.73
1:FM:134:ARG:O	1:FM:137:THR:HG22	1.88	0.73
1:FO:97:ARG:NH1	1:FO:112:ASP:OD2	2.21	0.73
1:GD:81:SER:HG	1:GD:126:PHE:HE1	1.37	0.73
1:GM:107:LEU:HD23	1:HI:2:TYR:CD2	2.23	0.73
1:HX:134:ARG:O	1:HX:137:THR:HG22	1.88	0.73
1:BM:50:PRO:HG2	1:BM:53:GLN:HB3	1.69	0.73
1:CF:35:ASP:HB2	1:CF:41:THR:O	1.88	0.73
1:FZ:50:PRO:HG2	1:FZ:53:GLN:HB3	1.69	0.73
1:GG:35:ASP:HB2	1:GG:41:THR:O	1.88	0.73
1:DA:35:ASP:HB2	1:DA:41:THR:O	1.88	0.73
1:GH:134:ARG:O	1:GH:137:THR:HG22	1.88	0.73
1:GJ:97:ARG:NH1	1:GJ:112:ASP:OD2	2.21	0.73
1:HC:134:ARG:O	1:HC:137:THR:HG22	1.88	0.73
1:HY:50:PRO:HG2	1:HY:53:GLN:HB3	1.69	0.73
1:AJ:104:ASN:ND2	1:GA:104:ASN:ND2	2.35	0.73
1:AM:35:ASP:HB2	1:AM:41:THR:O	1.87	0.73
1:AW:107:LEU:HD12	1:BH:111:VAL:HG21	1.70	0.73
1:CG:134:ARG:O	1:CG:137:THR:HG22	1.88	0.73
1:CP:114:PRO:HG2	1:CQ:67:VAL:HG12	1.71	0.73
1:ET:50:PRO:HG2	1:ET:53:GLN:HB3	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GN:107:LEU:HD12	1:GY:111:VAL:HG21	1.70	0.73
1:HL:114:PRO:HG2	1:HM:67:VAL:HG12	1.71	0.73
1:AB:127:THR:HG21	1:DG:110:ILE:CD1	2.18	0.73
1:DY:50:PRO:HG2	1:DY:53:GLN:HB3	1.70	0.73
1:FO:50:PRO:HG2	1:FO:53:GLN:HB3	1.71	0.73
1:HE:97:ARG:NH1	1:HE:112:ASP:OD2	2.21	0.73
1:HI:107:LEU:HD12	1:HT:111:VAL:HG21	1.70	0.73
1:AS:97:ARG:NH1	1:AS:112:ASP:OD2	2.21	0.73
1:DD:50:PRO:HG2	1:DD:53:GLN:HB3	1.71	0.73
1:DV:35:ASP:HB2	1:DV:41:THR:O	1.88	0.73
1:HY:35:ASP:HB2	1:HY:41:THR:O	1.89	0.73
1:AA:116:TRP:HZ3	1:AB:67:VAL:HG13	1.52	0.73
1:BN:35:ASP:HB2	1:BN:41:THR:O	1.89	0.73
1:DK:114:PRO:HG2	1:DL:67:VAL:HG12	1.71	0.73
1:DY:97:ARG:NH1	1:DY:112:ASP:OD2	2.21	0.73
1:ES:35:ASP:HB2	1:ES:41:THR:O	1.89	0.73
1:FJ:99:GLN:HB2	1:FJ:110:ILE:HG12	1.71	0.73
1:FL:35:ASP:HB2	1:FL:41:THR:O	1.88	0.73
1:GQ:114:PRO:HG2	1:GR:67:VAL:HG12	1.71	0.73
1:HA:35:ASP:HB2	1:HA:41:THR:O	1.89	0.73
1:AS:35:ASP:HB2	1:AS:41:THR:O	1.89	0.73
1:BL:134:ARG:O	1:BL:137:THR:HG22	1.88	0.73
1:CI:35:ASP:HB2	1:CI:41:THR:O	1.89	0.73
1:CZ:35:ASP:HB2	1:CZ:41:THR:O	1.89	0.73
1:DB:134:ARG:O	1:DB:137:THR:HG22	1.88	0.73
1:DC:35:ASP:HB2	1:DC:41:THR:O	1.89	0.73
1:FN:35:ASP:HB2	1:FN:41:THR:O	1.89	0.73
1:HV:35:ASP:HB2	1:HV:41:THR:O	1.89	0.73
1:BJ:35:ASP:HB2	1:BJ:41:THR:O	1.89	0.72
1:CJ:85:GLY:HA2	1:CJ:125:ASP:H	1.54	0.72
1:CL:116:TRP:HZ3	1:CM:67:VAL:HG13	1.52	0.72
1:DW:134:ARG:O	1:DW:137:THR:HG22	1.88	0.72
1:ET:97:ARG:NH1	1:ET:112:ASP:OD2	2.21	0.72
1:GK:85:GLY:HA2	1:GK:125:ASP:H	1.54	0.72
1:HE:35:ASP:HB2	1:HE:41:THR:O	1.89	0.72
1:BO:85:GLY:HA2	1:BO:125:ASP:H	1.54	0.72
1:CD:81:SER:HG	1:CD:126:PHE:HE1	1.37	0.72
1:CI:50:PRO:HG2	1:CI:53:GLN:HB3	1.71	0.72
1:HB:35:ASP:HB2	1:HB:41:THR:O	1.88	0.72
1:HZ:35:ASP:HB2	1:HZ:41:THR:O	1.89	0.72
1:AM:85:GLY:HA2	1:AM:125:ASP:H	1.55	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BR:107:LEU:HD12	1:CC:111:VAL:HG21	1.70	0.72
1:CM:107:LEU:HD12	1:CX:111:VAL:HG21	1.70	0.72
1:CX:78:PHE:HD1	1:CY:110:ILE:O	1.73	0.72
1:EF:114:PRO:HG2	1:EG:67:VAL:HG12	1.71	0.72
1:GZ:99:GLN:HB2	1:GZ:110:ILE:HG12	1.72	0.72
1:HF:85:GLY:HA2	1:HF:125:ASP:H	1.54	0.72
1:CC:78:PHE:HD1	1:CD:110:ILE:O	1.73	0.72
1:EQ:35:ASP:HB2	1:EQ:41:THR:O	1.88	0.72
1:HT:78:PHE:HD1	1:HU:110:ILE:O	1.73	0.72
1:AR:35:ASP:HB2	1:AR:41:THR:O	1.89	0.72
1:CH:35:ASP:HB2	1:CH:41:THR:O	1.89	0.72
1:EK:97:ARG:NH1	1:EK:112:ASP:OD2	2.23	0.72
1:EP:111:VAL:HG21	1:HM:107:LEU:HD12	1.70	0.72
1:FK:35:ASP:HB2	1:FK:41:THR:O	1.89	0.72
1:GF:35:ASP:HB2	1:GF:41:THR:O	1.89	0.72
1:GJ:35:ASP:HB2	1:GJ:41:THR:O	1.89	0.72
1:AQ:98:THR:HG21	1:AR:128:LEU:HD22	1.72	0.72
1:BH:78:PHE:HD1	1:BI:110:ILE:O	1.73	0.72
1:BP:55:GLU:OE2	1:GL:140:TRP:NE1	2.21	0.72
1:CD:99:GLN:HB2	1:CD:110:ILE:HG12	1.71	0.72
1:DH:107:LEU:HD12	1:DS:111:VAL:HG21	1.70	0.72
1:EP:35:ASP:HB2	1:EP:41:THR:O	1.89	0.72
1:FV:114:PRO:HG2	1:FW:67:VAL:HG12	1.71	0.72
1:GE:99:GLN:HB2	1:GE:110:ILE:HG12	1.71	0.72
1:GH:98:THR:HG21	1:GI:128:LEU:HD22	1.72	0.72
1:GJ:50:PRO:HG2	1:GJ:53:GLN:HB3	1.70	0.72
1:HZ:50:PRO:HG2	1:HZ:53:GLN:HB3	1.71	0.72
1:HZ:97:ARG:NH1	1:HZ:112:ASP:OD2	2.21	0.72
1:AT:85:GLY:HA2	1:AT:125:ASP:H	1.54	0.72
1:EN:85:GLY:HA2	1:EN:125:ASP:H	1.55	0.72
1:ER:98:THR:HG21	1:ES:128:LEU:HD22	1.72	0.72
1:GI:35:ASP:HB2	1:GI:41:THR:O	1.89	0.72
1:AS:50:PRO:HG2	1:AS:53:GLN:HB3	1.71	0.72
1:CG:98:THR:HG21	1:CH:128:LEU:HD22	1.72	0.72
1:ER:134:ARG:O	1:ER:137:THR:HG22	1.88	0.72
1:AN:99:GLN:HB2	1:AN:110:ILE:HG12	1.71	0.72
1:BH:85:GLY:HA2	1:BH:125:ASP:H	1.55	0.72
1:BL:85:GLY:HA2	1:BL:125:ASP:H	1.55	0.72
1:DD:35:ASP:HB2	1:DD:41:THR:O	1.89	0.72
1:DS:78:PHE:HD1	1:DT:110:ILE:O	1.73	0.72
1:DT:99:GLN:HB2	1:DT:110:ILE:HG12	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DY:35:ASP:HB2	1:DY:41:THR:O	1.89	0.72
1:EN:75:ASN:HB2	1:HH:82:SER:HB3	1.72	0.72
1:FM:85:GLY:HA2	1:FM:125:ASP:H	1.55	0.72
1:HE:50:PRO:HG2	1:HE:53:GLN:HB3	1.70	0.72
1:BL:98:THR:HG21	1:BM:128:LEU:HD22	1.72	0.72
1:CC:85:GLY:HA2	1:CC:125:ASP:H	1.55	0.72
1:DD:97:ARG:NH1	1:DD:112:ASP:OD2	2.21	0.72
1:EO:104:ASN:O	1:HI:103:VAL:HG23	1.90	0.72
1:FP:85:GLY:HA2	1:FP:125:ASP:H	1.54	0.72
1:HW:99:GLN:HB2	1:HW:110:ILE:HG12	1.72	0.72
1:AQ:85:GLY:HA2	1:AQ:125:ASP:H	1.55	0.71
1:DE:85:GLY:HA2	1:DE:125:ASP:H	1.54	0.71
1:DU:35:ASP:HB2	1:DU:41:THR:O	1.89	0.71
1:EO:99:GLN:HB2	1:EO:110:ILE:HG12	1.71	0.71
1:EU:85:GLY:HA2	1:EU:125:ASP:H	1.54	0.71
1:EX:107:LEU:HD12	1:FI:111:VAL:HG21	1.70	0.71
1:FA:114:PRO:HG2	1:FB:67:VAL:HG12	1.71	0.71
1:HT:85:GLY:HA2	1:HT:125:ASP:H	1.54	0.71
1:AE:114:PRO:HG2	1:AF:67:VAL:HG12	1.71	0.71
1:AM:78:PHE:HD1	1:AN:110:ILE:O	1.73	0.71
1:AO:35:ASP:HB2	1:AO:41:THR:O	1.89	0.71
1:DX:35:ASP:HB2	1:DX:41:THR:O	1.89	0.71
1:ER:85:GLY:HA2	1:ER:125:ASP:H	1.55	0.71
1:FI:85:GLY:HA2	1:FI:125:ASP:H	1.55	0.71
1:BM:35:ASP:HB2	1:BM:41:THR:O	1.89	0.71
1:CJ:81:SER:HG	1:CJ:126:PHE:HE1	1.38	0.71
1:DW:98:THR:HG21	1:DX:128:LEU:HD22	1.72	0.71
1:GY:78:PHE:HD1	1:GZ:110:ILE:O	1.73	0.71
1:HD:35:ASP:HB2	1:HD:41:THR:O	1.89	0.71
1:CS:127:THR:HG21	1:CT:110:ILE:HD12	1.73	0.71
1:ET:35:ASP:HB2	1:ET:41:THR:O	1.89	0.71
1:HC:98:THR:HG21	1:HD:128:LEU:HD22	1.72	0.71
1:IA:85:GLY:HA2	1:IA:125:ASP:H	1.54	0.71
1:DA:99:GLN:HB2	1:DA:110:ILE:HG12	1.72	0.71
1:DB:85:GLY:HA2	1:DB:125:ASP:H	1.55	0.71
1:EN:78:PHE:HD1	1:EO:110:ILE:O	1.73	0.71
1:HC:85:GLY:HA2	1:HC:125:ASP:H	1.55	0.71
1:HX:85:GLY:HA2	1:HX:125:ASP:H	1.55	0.71
1:AZ:114:PRO:HG2	1:BA:67:VAL:HG12	1.71	0.71
1:BX:127:THR:HG21	1:BY:110:ILE:HD12	1.73	0.71
1:CF:99:GLN:HB2	1:CF:110:ILE:HG12	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DB:98:THR:HG21	1:DC:128:LEU:HD22	1.72	0.71
1:HB:85:GLY:HA2	1:HB:125:ASP:H	1.56	0.71
1:BN:50:PRO:HG2	1:BN:53:GLN:HB3	1.70	0.71
1:CE:35:ASP:HB2	1:CE:41:THR:O	1.89	0.71
1:CK:112:ASP:OD1	1:FQ:78:PHE:HB3	1.90	0.71
1:EQ:85:GLY:HA2	1:EQ:125:ASP:H	1.56	0.71
1:EW:78:PHE:HB3	1:EX:112:ASP:OD2	1.91	0.71
1:CY:99:GLN:HB2	1:CY:110:ILE:HG12	1.72	0.71
1:DZ:85:GLY:HA2	1:DZ:125:ASP:H	1.54	0.71
1:FM:98:THR:HG21	1:FN:128:LEU:HD22	1.72	0.71
1:GT:127:THR:HG21	1:GU:110:ILE:HD12	1.73	0.71
1:GY:85:GLY:HA2	1:GY:125:ASP:H	1.55	0.71
1:HU:99:GLN:HB2	1:HU:110:ILE:HG12	1.71	0.71
1:AT:105:THR:HG22	1:HG:102:ASP:HA	1.72	0.71
1:CF:85:GLY:HA2	1:CF:125:ASP:H	1.56	0.71
1:CK:142:ILE:HD13	1:FQ:142:ILE:HG23	1.73	0.71
1:EH:114:PRO:HG2	1:EI:67:VAL:HG12	1.73	0.71
1:EQ:99:GLN:HB2	1:EQ:110:ILE:HG12	1.72	0.71
1:FD:127:THR:HG21	1:FE:110:ILE:HD12	1.73	0.71
1:FR:78:PHE:HB3	1:FS:112:ASP:OD2	1.91	0.71
1:GD:85:GLY:HA2	1:GD:125:ASP:H	1.55	0.71
1:HO:127:THR:HG21	1:HP:110:ILE:HD12	1.73	0.71
1:DU:81:SER:HG	1:DU:126:PHE:HE1	1.39	0.70
1:DV:85:GLY:HA2	1:DV:125:ASP:H	1.56	0.70
1:DV:99:GLN:HB2	1:DV:110:ILE:HG12	1.72	0.70
1:FL:85:GLY:HA2	1:FL:125:ASP:H	1.56	0.70
1:HB:99:GLN:HB2	1:HB:110:ILE:HG12	1.72	0.70
1:HN:114:PRO:HG2	1:HO:67:VAL:HG12	1.73	0.70
1:AH:127:THR:HG21	1:AI:110:ILE:HD12	1.73	0.70
1:BW:114:PRO:HG2	1:BX:67:VAL:HG12	1.73	0.70
1:DA:85:GLY:HA2	1:DA:125:ASP:H	1.56	0.70
1:DG:78:PHE:HB3	1:DH:112:ASP:OD2	1.91	0.70
1:FO:35:ASP:HB2	1:FO:41:THR:O	1.89	0.70
1:BB:114:PRO:HG2	1:BC:67:VAL:HG12	1.73	0.70
1:BQ:78:PHE:HB3	1:BR:112:ASP:OD2	1.91	0.70
1:FI:78:PHE:HD1	1:FJ:110:ILE:O	1.73	0.70
1:BZ:97:ARG:NH1	1:BZ:112:ASP:OD2	2.23	0.70
1:EP:99:GLN:HB2	1:EP:110:ILE:HG12	1.74	0.70
1:AP:85:GLY:HA2	1:AP:125:ASP:H	1.56	0.70
1:AP:99:GLN:HB2	1:AP:110:ILE:HG12	1.72	0.70
1:CE:99:GLN:HB2	1:CE:110:ILE:HG12	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CG:85:GLY:HA2	1:CG:125:ASP:H	1.55	0.70
1:BK:99:GLN:HB2	1:BK:110:ILE:HG12	1.72	0.70
1:EO:85:GLY:HA2	1:EO:125:ASP:H	1.57	0.70
1:FT:116:TRP:HZ3	1:FU:67:VAL:HG13	1.57	0.70
1:FY:127:THR:HG21	1:FZ:110:ILE:HD12	1.73	0.70
1:GD:78:PHE:HD1	1:GE:110:ILE:O	1.73	0.70
1:GO:116:TRP:HZ3	1:GP:67:VAL:HG13	1.57	0.70
1:GS:114:PRO:HG2	1:GT:67:VAL:HG12	1.73	0.70
1:HX:98:THR:HG21	1:HY:128:LEU:HD22	1.72	0.70
1:BJ:131:ASP:OD1	1:BJ:134:ARG:NH1	2.25	0.70
1:CL:78:PHE:HB3	1:CM:112:ASP:OD2	1.91	0.70
1:DW:85:GLY:HA2	1:DW:125:ASP:H	1.55	0.70
1:EB:78:PHE:HB3	1:EC:112:ASP:OD2	1.91	0.70
1:FJ:85:GLY:HA2	1:FJ:125:ASP:H	1.57	0.70
1:FL:99:GLN:HB2	1:FL:110:ILE:HG12	1.72	0.70
1:FX:114:PRO:HG2	1:FY:67:VAL:HG12	1.73	0.70
1:GM:78:PHE:HB3	1:GN:112:ASP:OD2	1.91	0.70
1:HU:81:SER:HG	1:HU:126:PHE:HE1	1.39	0.70
1:DU:99:GLN:HB2	1:DU:110:ILE:HG12	1.74	0.70
1:EO:81:SER:HG	1:EO:126:PHE:HE1	1.39	0.70
1:FC:114:PRO:HG2	1:FD:67:VAL:HG12	1.73	0.70
1:FK:131:ASP:OD1	1:FK:134:ARG:NH1	2.25	0.70
1:GG:85:GLY:HA2	1:GG:125:ASP:H	1.56	0.70
1:BK:85:GLY:HA2	1:BK:125:ASP:H	1.56	0.70
1:CQ:125:ASP:O	1:CS:75:ASN:ND2	2.25	0.70
1:EA:102:ASP:HA	1:IA:105:THR:HG22	1.74	0.70
1:GF:99:GLN:HB2	1:GF:110:ILE:HG12	1.74	0.70
1:GH:85:GLY:HA2	1:GH:125:ASP:H	1.55	0.70
1:HJ:116:TRP:HZ3	1:HK:67:VAL:HG13	1.57	0.70
1:HV:85:GLY:HA2	1:HV:125:ASP:H	1.57	0.70
1:AX:116:TRP:HZ3	1:AY:67:VAL:HG13	1.57	0.69
1:CX:85:GLY:HA2	1:CX:125:ASP:H	1.55	0.69
1:DL:125:ASP:O	1:DN:75:ASN:ND2	2.25	0.69
1:DS:81:SER:HG	1:DS:126:PHE:HE1	1.39	0.69
1:DY:85:GLY:HA2	1:DY:125:ASP:H	1.57	0.69
1:ED:116:TRP:HZ3	1:EE:67:VAL:HG13	1.57	0.69
1:FK:99:GLN:HB2	1:FK:110:ILE:HG12	1.74	0.69
1:HW:85:GLY:HA2	1:HW:125:ASP:H	1.56	0.69
1:AG:114:PRO:HG2	1:AH:67:VAL:HG12	1.73	0.69
1:CE:131:ASP:OD1	1:CE:134:ARG:NH1	2.25	0.69
1:DU:131:ASP:OD1	1:DU:134:ARG:NH1	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ET:85:GLY:HA2	1:ET:125:ASP:H	1.57	0.69
1:FK:85:GLY:HA2	1:FK:125:ASP:H	1.57	0.69
1:GG:99:GLN:HB2	1:GG:110:ILE:HG12	1.72	0.69
1:HA:85:GLY:HA2	1:HA:125:ASP:H	1.57	0.69
1:AO:99:GLN:HB2	1:AO:110:ILE:HG12	1.74	0.69
1:BE:97:ARG:NH1	1:BE:112:ASP:OD2	2.23	0.69
1:EP:131:ASP:OD1	1:EP:134:ARG:NH1	2.25	0.69
1:EY:116:TRP:HZ3	1:EZ:67:VAL:HG13	1.57	0.69
1:GF:85:GLY:HA2	1:GF:125:ASP:H	1.57	0.69
1:HA:131:ASP:OD1	1:HA:134:ARG:NH1	2.25	0.69
1:BI:99:GLN:HB2	1:BI:110:ILE:HG12	1.71	0.69
1:CU:97:ARG:NH1	1:CU:112:ASP:OD2	2.23	0.69
1:DM:114:PRO:HG2	1:DN:67:VAL:HG12	1.73	0.69
1:GF:131:ASP:OD1	1:GF:134:ARG:NH1	2.25	0.69
1:AA:78:PHE:HB3	1:AB:112:ASP:OD2	1.91	0.69
1:AN:85:GLY:HA2	1:AN:125:ASP:H	1.57	0.69
1:AV:78:PHE:HB3	1:AW:112:ASP:OD2	1.91	0.69
1:BJ:110:ILE:HB	1:BK:78:PHE:CE1	2.28	0.69
1:CW:157:LEU:HG	1:CW:164:ILE:HD11	1.75	0.69
1:CZ:85:GLY:HA2	1:CZ:125:ASP:H	1.57	0.69
1:DU:85:GLY:HA2	1:DU:125:ASP:H	1.57	0.69
1:DV:156:LYS:HB3	1:DV:161:VAL:HB	1.75	0.69
1:FF:97:ARG:NH1	1:FF:112:ASP:OD2	2.23	0.69
1:GG:156:LYS:HB3	1:GG:161:VAL:HB	1.75	0.69
1:GJ:85:GLY:HA2	1:GJ:125:ASP:H	1.57	0.69
1:GZ:85:GLY:HA2	1:GZ:125:ASP:H	1.57	0.69
1:HB:156:LYS:HB3	1:HB:161:VAL:HB	1.75	0.69
1:HV:131:ASP:OD1	1:HV:134:ARG:NH1	2.25	0.69
1:AO:85:GLY:HA2	1:AO:125:ASP:H	1.57	0.69
1:BA:125:ASP:O	1:BC:75:ASN:ND2	2.25	0.69
1:BL:104:ASN:ND2	1:BN:104:ASN:OD1	2.26	0.69
1:CY:85:GLY:HA2	1:CY:125:ASP:H	1.57	0.69
1:CZ:110:ILE:HB	1:DA:78:PHE:CE1	2.28	0.69
1:DN:127:THR:HG21	1:DO:110:ILE:HD12	1.73	0.69
1:EM:157:LEU:HG	1:EM:164:ILE:HD11	1.75	0.69
1:EQ:156:LYS:HB3	1:EQ:161:VAL:HB	1.75	0.69
1:FW:125:ASP:O	1:FY:75:ASN:ND2	2.25	0.69
1:GR:125:ASP:O	1:GT:75:ASN:ND2	2.25	0.69
1:HC:104:ASN:ND2	1:HE:104:ASN:OD1	2.26	0.69
1:HM:125:ASP:O	1:HO:75:ASN:ND2	2.25	0.69
1:AF:125:ASP:O	1:AH:75:ASN:ND2	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AQ:104:ASN:ND2	1:AS:104:ASN:OD1	2.26	0.69
1:AU:98:THR:HA	1:HG:4:GLN:HB3	1.74	0.69
1:BI:85:GLY:HA2	1:BI:125:ASP:H	1.57	0.69
1:BS:116:TRP:HZ3	1:BT:67:VAL:HG13	1.57	0.69
1:CD:85:GLY:HA2	1:CD:125:ASP:H	1.57	0.69
1:CM:153:VAL:HG13	1:CM:164:ILE:HD13	1.75	0.69
1:EP:110:ILE:HB	1:EQ:78:PHE:CE1	2.28	0.69
1:EX:153:VAL:HG13	1:EX:164:ILE:HD13	1.75	0.69
1:GE:85:GLY:HA2	1:GE:125:ASP:H	1.57	0.69
1:GH:104:ASN:ND2	1:GJ:104:ASN:OD1	2.26	0.69
1:HA:110:ILE:HB	1:HB:78:PHE:CE1	2.28	0.69
1:HH:78:PHE:HB3	1:HI:112:ASP:OD2	1.91	0.69
1:HZ:85:GLY:HA2	1:HZ:125:ASP:H	1.57	0.69
1:BR:153:VAL:HG13	1:BR:164:ILE:HD13	1.75	0.69
1:CK:81:SER:HG	1:CK:126:PHE:HE1	1.41	0.69
1:CZ:99:GLN:HB2	1:CZ:110:ILE:HG12	1.74	0.69
1:DD:85:GLY:HA2	1:DD:125:ASP:H	1.58	0.69
1:DW:104:ASN:ND2	1:DY:104:ASN:OD1	2.26	0.69
1:EI:127:THR:HG21	1:EJ:110:ILE:HD12	1.73	0.69
1:EW:128:LEU:HD22	1:EX:98:THR:HG21	1.75	0.69
1:FB:125:ASP:O	1:FD:75:ASN:ND2	2.25	0.69
1:FH:157:LEU:HG	1:FH:164:ILE:HD11	1.75	0.69
1:FM:104:ASN:ND2	1:FO:104:ASN:OD1	2.26	0.69
1:FQ:85:GLY:HA2	1:FQ:125:ASP:H	1.58	0.69
1:GC:157:LEU:HG	1:GC:164:ILE:HD11	1.75	0.69
1:GM:128:LEU:HD22	1:GN:98:THR:HG21	1.75	0.69
1:GV:97:ARG:NH1	1:GV:112:ASP:OD2	2.23	0.69
1:HE:85:GLY:HA2	1:HE:125:ASP:H	1.57	0.69
1:HS:157:LEU:HG	1:HS:164:ILE:HD11	1.75	0.69
1:AO:110:ILE:HB	1:AP:78:PHE:CE1	2.28	0.69
1:BV:125:ASP:O	1:BX:75:ASN:ND2	2.25	0.69
1:DF:85:GLY:HA2	1:DF:125:ASP:H	1.58	0.69
1:DS:85:GLY:HA2	1:DS:125:ASP:H	1.55	0.69
1:EG:125:ASP:O	1:EI:75:ASN:ND2	2.25	0.69
1:HV:99:GLN:HB2	1:HV:110:ILE:HG12	1.74	0.69
1:HV:110:ILE:HB	1:HW:78:PHE:CE1	2.28	0.69
1:AO:131:ASP:OD1	1:AO:134:ARG:NH1	2.25	0.69
1:BG:157:LEU:HG	1:BG:164:ILE:HD11	1.75	0.69
1:CG:104:ASN:ND2	1:CI:104:ASN:OD1	2.26	0.69
1:CI:85:GLY:HA2	1:CI:125:ASP:H	1.57	0.69
1:CR:114:PRO:HG2	1:CS:67:VAL:HG12	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DG:128:LEU:HD22	1:DH:98:THR:HG21	1.75	0.69
1:HI:153:VAL:HG13	1:HI:164:ILE:HD13	1.75	0.69
1:HU:85:GLY:HA2	1:HU:125:ASP:H	1.57	0.69
1:AJ:97:ARG:NH1	1:AJ:112:ASP:OD2	2.23	0.68
1:BJ:85:GLY:HA2	1:BJ:125:ASP:H	1.57	0.68
1:DA:156:LYS:HB3	1:DA:161:VAL:HB	1.75	0.68
1:CN:116:TRP:HZ3	1:CO:67:VAL:HG13	1.57	0.68
1:DT:85:GLY:HA2	1:DT:125:ASP:H	1.57	0.68
1:ER:104:ASN:ND2	1:ET:104:ASN:OD1	2.26	0.68
1:GF:110:ILE:HB	1:GG:78:PHE:CE1	2.28	0.68
1:GX:157:LEU:HG	1:GX:164:ILE:HD11	1.75	0.68
1:HQ:97:ARG:NH1	1:HQ:112:ASP:OD2	2.23	0.68
1:BP:140:TRP:HA	1:GL:22:TYR:CD2	2.28	0.68
1:EA:81:SER:HG	1:EA:126:PHE:HE1	1.41	0.68
1:EB:128:LEU:HD22	1:EC:98:THR:HG21	1.75	0.68
1:EQ:63:LYS:NZ	1:HL:74:GLN:OE1	2.26	0.68
1:FO:85:GLY:HA2	1:FO:125:ASP:H	1.57	0.68
1:HX:104:ASN:ND2	1:HZ:104:ASN:OD1	2.26	0.68
1:BC:127:THR:HG21	1:BD:110:ILE:HD12	1.73	0.68
1:BJ:99:GLN:HB2	1:BJ:110:ILE:HG12	1.74	0.68
1:DB:104:ASN:ND2	1:DD:104:ASN:OD1	2.26	0.68
1:BK:156:LYS:HB3	1:BK:161:VAL:HB	1.75	0.68
1:BQ:128:LEU:HD22	1:BR:98:THR:HG21	1.75	0.68
1:GT:103:VAL:HG23	1:HW:104:ASN:O	1.92	0.68
1:IB:85:GLY:HA2	1:IB:125:ASP:H	1.58	0.68
1:AV:82:SER:HB3	1:CC:75:ASN:CB	2.23	0.68
1:DH:153:VAL:HG13	1:DH:164:ILE:HD13	1.75	0.68
1:DU:110:ILE:HB	1:DV:78:PHE:CE1	2.28	0.68
1:BJ:50:PRO:HG2	1:BJ:53:GLN:HB3	1.76	0.68
1:BN:85:GLY:HA2	1:BN:125:ASP:H	1.57	0.68
1:CB:157:LEU:HG	1:CB:164:ILE:HD11	1.75	0.68
1:CK:8:TYR:HE1	1:FQ:55:GLU:OE1	1.75	0.68
1:DU:50:PRO:HG2	1:DU:53:GLN:HB3	1.76	0.68
1:FS:153:VAL:HG13	1:FS:164:ILE:HD13	1.75	0.68
1:GF:81:SER:HG	1:GF:126:PHE:HE1	1.42	0.68
1:GL:85:GLY:HA2	1:GL:125:ASP:H	1.58	0.68
1:HA:99:GLN:HB2	1:HA:110:ILE:HG12	1.74	0.68
1:AS:85:GLY:HA2	1:AS:125:ASP:H	1.57	0.68
1:BP:85:GLY:HA2	1:BP:125:ASP:H	1.58	0.68
1:CZ:131:ASP:OD1	1:CZ:134:ARG:NH1	2.25	0.68
1:GZ:156:LYS:HB3	1:GZ:161:VAL:HB	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HG:81:SER:HG	1:HG:126:PHE:HE1	1.42	0.68
1:HW:156:LYS:HB3	1:HW:161:VAL:HB	1.75	0.68
1:AV:128:LEU:HD22	1:AW:98:THR:HG21	1.75	0.68
1:CX:81:SER:HG	1:CX:126:PHE:HE1	1.40	0.68
1:CZ:50:PRO:HG2	1:CZ:53:GLN:HB3	1.76	0.68
1:DI:116:TRP:HZ3	1:DJ:67:VAL:HG13	1.57	0.68
1:EA:85:GLY:HA2	1:EA:125:ASP:H	1.58	0.68
1:EC:153:VAL:HG13	1:EC:164:ILE:HD13	1.75	0.68
1:AU:85:GLY:HA2	1:AU:125:ASP:H	1.58	0.68
1:CE:110:ILE:HB	1:CF:78:PHE:CE1	2.28	0.68
1:CI:47:THR:HG21	1:EK:161:VAL:HG22	1.75	0.68
1:DF:81:SER:HG	1:DF:126:PHE:HE1	1.41	0.68
1:DR:157:LEU:HG	1:DR:164:ILE:HD11	1.75	0.68
1:AC:116:TRP:HZ3	1:AD:67:VAL:HG13	1.57	0.67
1:CB:99:GLN:HB2	1:CB:110:ILE:HG12	1.76	0.67
1:CF:156:LYS:HB3	1:CF:161:VAL:HB	1.75	0.67
1:CY:156:LYS:HB3	1:CY:161:VAL:HB	1.76	0.67
1:DR:99:GLN:HB2	1:DR:110:ILE:HG12	1.76	0.67
1:FR:128:LEU:HD22	1:FS:98:THR:HG21	1.75	0.67
1:GN:153:VAL:HG13	1:GN:164:ILE:HD13	1.75	0.67
1:AA:128:LEU:HD22	1:AB:98:THR:HG21	1.75	0.67
1:AB:153:VAL:HG13	1:AB:164:ILE:HD13	1.75	0.67
1:DT:156:LYS:HB3	1:DT:161:VAL:HB	1.76	0.67
1:FH:99:GLN:HB2	1:FH:110:ILE:HG12	1.76	0.67
1:AL:157:LEU:HG	1:AL:164:ILE:HD11	1.75	0.67
1:CM:74:GLN:OE1	1:DH:127:THR:HA	1.95	0.67
1:FK:110:ILE:HB	1:FL:78:PHE:CE1	2.28	0.67
1:CK:142:ILE:HG23	1:FQ:142:ILE:HD13	1.76	0.67
1:DO:114:PRO:HG2	1:DP:67:VAL:HG12	1.77	0.67
1:EP:85:GLY:HA2	1:EP:125:ASP:H	1.57	0.67
1:FR:81:SER:OG	1:GY:75:ASN:ND2	2.26	0.67
1:GF:50:PRO:HG2	1:GF:53:GLN:HB3	1.76	0.67
1:AN:156:LYS:HB3	1:AN:161:VAL:HB	1.76	0.67
1:CD:156:LYS:HB3	1:CD:161:VAL:HB	1.76	0.67
1:CL:106:GLY:HA3	1:DH:1:SER:H3	1.59	0.67
1:DE:105:THR:HG22	1:EV:102:ASP:HA	1.77	0.67
1:GK:50:PRO:HG2	1:GK:53:GLN:HB3	1.77	0.67
1:HA:50:PRO:HG2	1:HA:53:GLN:HB3	1.76	0.67
1:DZ:50:PRO:HG2	1:DZ:53:GLN:HB3	1.77	0.67
1:AS:47:THR:HG21	1:GA:161:VAL:HG22	1.77	0.67
1:BD:114:PRO:HG2	1:BE:67:VAL:HG12	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CE:85:GLY:HA2	1:CE:125:ASP:H	1.57	0.67
1:CG:81:SER:HG	1:CG:126:PHE:HE1	1.42	0.67
1:CW:99:GLN:HB2	1:CW:110:ILE:HG12	1.76	0.67
1:DP:97:ARG:NH1	1:DP:112:ASP:OD2	2.23	0.67
1:EV:85:GLY:HA2	1:EV:125:ASP:H	1.58	0.67
1:CL:128:LEU:HD22	1:CM:98:THR:HG21	1.75	0.67
1:GE:156:LYS:HB3	1:GE:161:VAL:HB	1.76	0.67
1:CT:114:PRO:HG2	1:CU:67:VAL:HG12	1.77	0.67
1:AF:51:LYS:NZ	1:BK:131:ASP:OD2	2.27	0.67
1:AQ:81:SER:HG	1:AQ:126:PHE:HE1	1.43	0.67
1:AW:153:VAL:HG13	1:AW:164:ILE:HD13	1.75	0.67
1:DP:127:THR:HG21	1:DQ:110:ILE:HD12	1.77	0.67
1:GU:114:PRO:HG2	1:GV:67:VAL:HG12	1.77	0.67
1:HH:128:LEU:HD22	1:HI:98:THR:HG21	1.75	0.67
1:AP:156:LYS:HB3	1:AP:161:VAL:HB	1.75	0.66
1:CK:85:GLY:HA2	1:CK:125:ASP:H	1.58	0.66
1:FP:50:PRO:HG2	1:FP:53:GLN:HB3	1.77	0.66
1:BQ:81:SER:OG	1:CX:75:ASN:ND2	2.27	0.66
1:FJ:156:LYS:HB3	1:FJ:161:VAL:HB	1.76	0.66
1:GA:97:ARG:NH1	1:GA:112:ASP:OD2	2.23	0.66
1:GV:127:THR:HG21	1:GW:110:ILE:HD12	1.77	0.66
1:HG:85:GLY:HA2	1:HG:125:ASP:H	1.58	0.66
1:AT:50:PRO:HG2	1:AT:53:GLN:HB3	1.77	0.66
1:DM:116:TRP:HZ3	1:DN:67:VAL:HG13	1.61	0.66
1:FK:50:PRO:HG2	1:FK:53:GLN:HB3	1.76	0.66
1:FL:156:LYS:HB3	1:FL:161:VAL:HB	1.75	0.66
1:AM:75:ASN:CB	1:DG:82:SER:HB3	2.24	0.66
1:BY:114:PRO:HG2	1:BZ:67:VAL:HG12	1.77	0.66
1:FI:81:SER:HG	1:FI:126:PHE:HE1	1.42	0.66
1:GA:127:THR:HG21	1:GB:110:ILE:HD12	1.77	0.66
1:AB:84:LYS:N	1:DH:75:ASN:ND2	2.36	0.66
1:CE:50:PRO:HG2	1:CE:53:GLN:HB3	1.76	0.66
1:EH:116:TRP:HZ3	1:EI:67:VAL:HG13	1.61	0.66
1:EO:156:LYS:HB3	1:EO:161:VAL:HB	1.76	0.66
1:ET:101:THR:HA	1:ET:108:PRO:HA	1.78	0.66
1:HU:156:LYS:HB3	1:HU:161:VAL:HB	1.76	0.66
1:AI:114:PRO:HG2	1:AJ:67:VAL:HG12	1.77	0.66
1:AQ:98:THR:HA	1:AR:4:GLN:HB3	1.78	0.66
1:BG:99:GLN:HB2	1:BG:110:ILE:HG12	1.76	0.66
1:BS:142:ILE:HD13	1:BT:142:ILE:HG23	1.78	0.66
1:DD:101:THR:HA	1:DD:108:PRO:HA	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DY:101:THR:HA	1:DY:108:PRO:HA	1.78	0.66
1:HS:99:GLN:HB2	1:HS:110:ILE:HG12	1.76	0.66
1:HX:81:SER:HG	1:HX:126:PHE:HE1	1.44	0.66
1:AX:142:ILE:HD13	1:AY:142:ILE:HG23	1.78	0.66
1:BO:50:PRO:HG2	1:BO:53:GLN:HB3	1.77	0.66
1:BR:75:ASN:HD21	1:CM:84:LYS:H	1.44	0.66
1:BW:116:TRP:HZ3	1:BX:67:VAL:HG13	1.61	0.66
1:DB:98:THR:HA	1:DC:4:GLN:HB3	1.78	0.66
1:ED:142:ILE:HD13	1:EE:142:ILE:HG23	1.78	0.66
1:EM:99:GLN:HB2	1:EM:110:ILE:HG12	1.76	0.66
1:EQ:106:GLY:HA3	1:HN:2:TYR:HD2	1.59	0.66
1:EU:50:PRO:HG2	1:EU:53:GLN:HB3	1.77	0.66
1:FZ:114:PRO:HG2	1:GA:67:VAL:HG12	1.77	0.66
1:GX:99:GLN:HB2	1:GX:110:ILE:HG12	1.76	0.66
1:HC:98:THR:HA	1:HD:4:GLN:HB3	1.78	0.66
1:HN:116:TRP:HZ3	1:HO:67:VAL:HG13	1.61	0.66
1:AS:75:ASN:HB3	1:AS:78:PHE:CD2	2.31	0.66
1:AS:110:ILE:HD11	1:FZ:127:THR:HG21	1.77	0.66
1:CK:166:GLY:N	1:FQ:44:TYR:OH	2.28	0.66
1:CN:142:ILE:HD13	1:CO:142:ILE:HG23	1.78	0.66
1:FC:116:TRP:HZ3	1:FD:67:VAL:HG13	1.61	0.66
1:FE:114:PRO:HG2	1:FF:67:VAL:HG12	1.77	0.66
1:FM:81:SER:HG	1:FM:126:PHE:HE1	1.44	0.66
1:HJ:142:ILE:HD13	1:HK:142:ILE:HG23	1.78	0.66
1:AO:50:PRO:HG2	1:AO:53:GLN:HB3	1.76	0.66
1:DY:75:ASN:HB3	1:DY:78:PHE:CD2	2.31	0.66
1:HV:50:PRO:HG2	1:HV:53:GLN:HB3	1.76	0.66
1:AJ:104:ASN:HD21	1:GA:104:ASN:ND2	1.92	0.66
1:DI:142:ILE:HD13	1:DJ:142:ILE:HG23	1.78	0.66
1:EA:129:VAL:HG23	1:EA:134:ARG:HH21	1.61	0.66
1:EP:50:PRO:HG2	1:EP:53:GLN:HB3	1.76	0.66
1:FO:75:ASN:HB3	1:FO:78:PHE:CD2	2.31	0.66
1:GS:84:LYS:HD3	1:HV:74:GLN:OE1	1.96	0.66
1:AG:116:TRP:HZ3	1:AH:67:VAL:HG13	1.61	0.65
1:BH:81:SER:HG	1:BH:126:PHE:HE1	1.43	0.65
1:DO:147:LEU:O	1:DP:135:LYS:NZ	2.29	0.65
1:EJ:114:PRO:HG2	1:EK:67:VAL:HG12	1.77	0.65
1:FO:81:SER:HG	1:FO:126:PHE:HE1	1.45	0.65
1:GH:98:THR:HA	1:GI:4:GLN:HB3	1.78	0.65
1:HE:75:ASN:HB3	1:HE:78:PHE:CD2	2.31	0.65
1:AD:127:THR:HG21	1:AE:110:ILE:HD12	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:99:GLN:HB2	1:AL:110:ILE:HG12	1.76	0.65
1:BI:156:LYS:HB3	1:BI:161:VAL:HB	1.76	0.65
1:DF:102:ASP:HA	1:EU:105:THR:HG22	1.77	0.65
1:DW:98:THR:HA	1:DX:4:GLN:HB3	1.78	0.65
1:EZ:127:THR:HG21	1:FA:110:ILE:HD12	1.78	0.65
1:HP:114:PRO:HG2	1:HQ:67:VAL:HG12	1.77	0.65
1:HX:98:THR:HA	1:HY:4:GLN:HB3	1.78	0.65
1:AC:142:ILE:HD13	1:AD:142:ILE:HG23	1.78	0.65
1:BN:75:ASN:HB3	1:BN:78:PHE:CD2	2.31	0.65
1:CI:101:THR:HA	1:CI:108:PRO:HA	1.78	0.65
1:CJ:50:PRO:HG2	1:CJ:53:GLN:HB3	1.77	0.65
1:DE:50:PRO:HG2	1:DE:53:GLN:HB3	1.77	0.65
1:FX:86:THR:OG1	1:HB:51:LYS:HE3	1.96	0.65
1:GC:99:GLN:HB2	1:GC:110:ILE:HG12	1.76	0.65
1:HG:129:VAL:HG23	1:HG:134:ARG:HH21	1.61	0.65
1:AU:129:VAL:HG23	1:AU:134:ARG:HH21	1.61	0.65
1:BP:129:VAL:HG23	1:BP:134:ARG:HH21	1.61	0.65
1:EK:127:THR:HG21	1:EL:110:ILE:HD12	1.77	0.65
1:ET:75:ASN:HB3	1:ET:78:PHE:CD2	2.31	0.65
1:HK:127:THR:HG21	1:HL:110:ILE:HD12	1.78	0.65
1:HQ:127:THR:HG21	1:HR:110:ILE:HD12	1.77	0.65
1:CT:147:LEU:O	1:CU:135:LYS:NZ	2.29	0.65
1:ET:81:SER:HG	1:ET:126:PHE:HE1	1.45	0.65
1:FM:98:THR:HA	1:FN:4:GLN:HB3	1.78	0.65
1:GJ:75:ASN:HB3	1:GJ:78:PHE:CD2	2.31	0.65
1:IA:50:PRO:HG2	1:IA:53:GLN:HB3	1.77	0.65
1:AA:162:THR:CB	1:DG:34:ASP:HB3	2.22	0.65
1:BB:116:TRP:HZ3	1:BC:67:VAL:HG13	1.61	0.65
1:DF:129:VAL:HG23	1:DF:134:ARG:HH21	1.61	0.65
1:FT:142:ILE:HD13	1:FU:142:ILE:HG23	1.78	0.65
1:HF:50:PRO:HG2	1:HF:53:GLN:HB3	1.77	0.65
1:HZ:75:ASN:HB3	1:HZ:78:PHE:CD2	2.31	0.65
1:IB:129:VAL:HG23	1:IB:134:ARG:HH21	1.61	0.65
1:AG:86:THR:OG1	1:BK:51:LYS:HE3	1.97	0.65
1:BN:101:THR:HA	1:BN:108:PRO:HA	1.78	0.65
1:FX:116:TRP:HZ3	1:FY:67:VAL:HG13	1.61	0.65
1:GH:81:SER:HG	1:GH:126:PHE:HE1	1.44	0.65
1:GL:129:VAL:HG23	1:GL:134:ARG:HH21	1.61	0.65
1:HE:101:THR:HA	1:HE:108:PRO:HA	1.78	0.65
1:AI:147:LEU:O	1:AJ:135:LYS:NZ	2.29	0.65
1:AN:50:PRO:HG2	1:AN:53:GLN:HB3	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AV:81:SER:OG	1:CC:75:ASN:ND2	2.28	0.65
1:AY:127:THR:HG21	1:AZ:110:ILE:HD12	1.78	0.65
1:BE:127:THR:HG21	1:BF:110:ILE:HD12	1.77	0.65
1:BL:98:THR:HA	1:BM:4:GLN:HB3	1.78	0.65
1:CG:98:THR:HA	1:CH:4:GLN:HB3	1.78	0.65
1:DB:81:SER:HG	1:DB:126:PHE:HE1	1.44	0.65
1:EN:81:SER:HG	1:EN:126:PHE:HE1	1.45	0.65
1:FE:147:LEU:O	1:FF:135:LYS:NZ	2.29	0.65
1:AJ:127:THR:HG21	1:AK:110:ILE:HD12	1.77	0.65
1:BI:50:PRO:HG2	1:BI:53:GLN:HB3	1.79	0.65
1:BZ:127:THR:HG21	1:CA:110:ILE:HD12	1.77	0.65
1:CQ:107:LEU:HD12	1:DU:111:VAL:HG21	1.78	0.65
1:FJ:50:PRO:HG2	1:FJ:53:GLN:HB3	1.79	0.65
1:BT:127:THR:HG21	1:BU:110:ILE:HD12	1.78	0.65
1:CR:116:TRP:HZ3	1:CS:67:VAL:HG13	1.61	0.65
1:ER:98:THR:HA	1:ES:4:GLN:HB3	1.78	0.65
1:AS:101:THR:HA	1:AS:108:PRO:HA	1.78	0.64
1:BL:81:SER:HG	1:BL:126:PHE:HE1	1.43	0.64
1:CY:50:PRO:HG2	1:CY:53:GLN:HB3	1.79	0.64
1:DD:75:ASN:HB3	1:DD:78:PHE:CD2	2.31	0.64
1:HT:81:SER:HG	1:HT:126:PHE:HE1	1.43	0.64
1:CB:131:ASP:OD1	1:CB:134:ARG:NH1	2.31	0.64
1:FQ:129:VAL:HG23	1:FQ:134:ARG:HH21	1.61	0.64
1:GO:142:ILE:HD13	1:GP:142:ILE:HG23	1.78	0.64
1:CK:129:VAL:HG23	1:CK:134:ARG:HH21	1.61	0.64
1:CW:131:ASP:OD1	1:CW:134:ARG:NH1	2.31	0.64
1:GP:127:THR:HG21	1:GQ:110:ILE:HD12	1.78	0.64
1:GU:147:LEU:O	1:GV:135:LYS:NZ	2.29	0.64
1:HK:157:LEU:HG	1:HK:164:ILE:HD11	1.80	0.64
1:AY:157:LEU:HG	1:AY:164:ILE:HD11	1.80	0.64
1:CD:50:PRO:HG2	1:CD:53:GLN:HB3	1.79	0.64
1:CU:127:THR:HG21	1:CV:110:ILE:HD12	1.77	0.64
1:DI:114:PRO:HG2	1:DJ:67:VAL:HG12	1.80	0.64
1:EB:2:TYR:CD2	1:FJ:106:GLY:HA3	2.32	0.64
1:EF:74:GLN:OE1	1:FL:63:LYS:NZ	2.29	0.64
1:EY:142:ILE:HD13	1:EZ:142:ILE:HG23	1.78	0.64
1:GC:131:ASP:OD1	1:GC:134:ARG:NH1	2.31	0.64
1:GJ:101:THR:HA	1:GJ:108:PRO:HA	1.78	0.64
1:GS:116:TRP:HZ3	1:GT:67:VAL:HG13	1.61	0.64
1:BU:142:ILE:HG23	1:BV:142:ILE:HD13	1.80	0.64
1:CE:156:LYS:HB3	1:CE:161:VAL:HB	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EE:127:THR:HG21	1:EF:110:ILE:HD12	1.79	0.64
1:EP:75:ASN:HB2	1:EP:78:PHE:CD2	2.33	0.64
1:GE:50:PRO:HG2	1:GE:53:GLN:HB3	1.79	0.64
1:AC:147:LEU:HD21	1:AD:138:ILE:HG21	1.80	0.64
1:AH:157:LEU:HG	1:AH:164:ILE:HD11	1.80	0.64
1:BL:97:ARG:O	1:BM:4:GLN:HA	1.98	0.64
1:CG:97:ARG:O	1:CH:4:GLN:HA	1.98	0.64
1:DR:131:ASP:OD1	1:DR:134:ARG:NH1	2.31	0.64
1:EM:131:ASP:OD1	1:EM:134:ARG:NH1	2.31	0.64
1:FT:114:PRO:HG2	1:FU:67:VAL:HG12	1.79	0.64
1:FU:157:LEU:HG	1:FU:164:ILE:HD11	1.80	0.64
1:GM:81:SER:OG	1:HT:75:ASN:ND2	2.31	0.64
1:HC:97:ARG:O	1:HD:4:GLN:HA	1.98	0.64
1:HL:142:ILE:HG23	1:HM:142:ILE:HD13	1.80	0.64
1:HN:50:PRO:HG2	1:HN:53:GLN:HB3	1.80	0.64
1:HP:147:LEU:O	1:HQ:135:LYS:NZ	2.29	0.64
1:HZ:101:THR:HA	1:HZ:108:PRO:HA	1.78	0.64
1:AG:50:PRO:HG2	1:AG:53:GLN:HB3	1.80	0.64
1:AL:131:ASP:OD1	1:AL:134:ARG:NH1	2.31	0.64
1:CC:81:SER:HG	1:CC:126:PHE:HE1	1.43	0.64
1:CI:75:ASN:HB3	1:CI:78:PHE:CD2	2.31	0.64
1:EF:81:SER:OG	1:EO:75:ASN:ND2	2.31	0.64
1:EV:129:VAL:HG23	1:EV:134:ARG:HH21	1.61	0.64
1:EY:114:PRO:HG2	1:EZ:67:VAL:HG12	1.79	0.64
1:FT:147:LEU:HD21	1:FU:138:ILE:HG21	1.80	0.64
1:GO:147:LEU:HD21	1:GP:138:ILE:HG21	1.80	0.64
1:GS:50:PRO:HG2	1:GS:53:GLN:HB3	1.80	0.64
1:HU:50:PRO:HG2	1:HU:53:GLN:HB3	1.79	0.64
1:AM:75:ASN:ND2	1:DG:81:SER:OG	2.29	0.64
1:CO:127:THR:HG21	1:CP:110:ILE:HD12	1.78	0.64
1:DB:97:ARG:O	1:DC:4:GLN:HA	1.98	0.64
1:DT:50:PRO:HG2	1:DT:53:GLN:HB3	1.79	0.64
1:DU:75:ASN:HB2	1:DU:78:PHE:CD2	2.33	0.64
1:GO:114:PRO:HG2	1:GP:67:VAL:HG12	1.79	0.64
1:AP:97:ARG:NH1	1:AP:112:ASP:OD2	2.31	0.64
1:AX:147:LEU:HD21	1:AY:138:ILE:HG21	1.80	0.64
1:BJ:75:ASN:HB2	1:BJ:78:PHE:CD2	2.33	0.64
1:CE:75:ASN:HB2	1:CE:78:PHE:CD2	2.33	0.64
1:DV:97:ARG:NH1	1:DV:112:ASP:OD2	2.31	0.64
1:DW:81:SER:HG	1:DW:126:PHE:HE1	1.44	0.64
1:EC:75:ASN:HD21	1:EX:84:LYS:H	1.44	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EP:156:LYS:HB3	1:EP:161:VAL:HB	1.80	0.64
1:FK:156:LYS:HB3	1:FK:161:VAL:HB	1.80	0.64
1:FO:101:THR:HA	1:FO:108:PRO:HA	1.78	0.64
1:FV:50:PRO:HG2	1:FV:53:GLN:HB3	1.80	0.64
1:FV:81:SER:OG	1:GE:75:ASN:ND2	2.31	0.64
1:HA:156:LYS:HB3	1:HA:161:VAL:HB	1.80	0.64
1:HV:156:LYS:HB3	1:HV:161:VAL:HB	1.80	0.64
1:HZ:53:GLN:NE2	1:HZ:97:ARG:HB3	2.13	0.64
1:AD:157:LEU:HG	1:AD:164:ILE:HD11	1.80	0.64
1:ED:147:LEU:HD21	1:EE:138:ILE:HG21	1.80	0.64
1:EO:50:PRO:HG2	1:EO:53:GLN:HB3	1.79	0.64
1:FA:142:ILE:HG23	1:FB:142:ILE:HD13	1.80	0.64
1:FU:127:THR:HG21	1:FV:110:ILE:HD12	1.78	0.64
1:AO:75:ASN:HB2	1:AO:78:PHE:CD2	2.33	0.63
1:AX:114:PRO:HG2	1:AY:67:VAL:HG12	1.79	0.63
1:AZ:81:SER:OG	1:BI:75:ASN:ND2	2.31	0.63
1:BW:2:TYR:HD2	1:DA:106:GLY:HA3	1.63	0.63
1:CN:114:PRO:HG2	1:CO:67:VAL:HG12	1.79	0.63
1:DD:53:GLN:NE2	1:DD:97:ARG:HB3	2.13	0.63
1:EB:82:SER:HB3	1:FI:75:ASN:CB	2.28	0.63
1:EI:157:LEU:HG	1:EI:164:ILE:HD11	1.80	0.63
1:FH:131:ASP:OD1	1:FH:134:ARG:NH1	2.31	0.63
1:GH:97:ARG:O	1:GI:4:GLN:HA	1.98	0.63
1:HS:131:ASP:OD1	1:HS:134:ARG:NH1	2.31	0.63
1:AC:114:PRO:HG2	1:AD:67:VAL:HG12	1.79	0.63
1:AU:55:GLU:OE2	1:HG:140:TRP:CE2	2.51	0.63
1:CF:97:ARG:NH1	1:CF:112:ASP:OD2	2.31	0.63
1:CZ:75:ASN:HB2	1:CZ:78:PHE:CD2	2.33	0.63
1:EY:147:LEU:HD21	1:EZ:138:ILE:HG21	1.80	0.63
1:FF:127:THR:HG21	1:FG:110:ILE:HD12	1.78	0.63
1:HO:157:LEU:HG	1:HO:164:ILE:HD11	1.80	0.63
1:AZ:50:PRO:HG2	1:AZ:53:GLN:HB3	1.80	0.63
1:BN:53:GLN:NE2	1:BN:97:ARG:HB3	2.13	0.63
1:CO:157:LEU:HG	1:CO:164:ILE:HD11	1.80	0.63
1:DM:50:PRO:HG2	1:DM:53:GLN:HB3	1.80	0.63
1:FK:75:ASN:HB2	1:FK:78:PHE:CD2	2.33	0.63
1:GF:75:ASN:HB2	1:GF:78:PHE:CD2	2.33	0.63
1:HA:75:ASN:HB2	1:HA:78:PHE:CD2	2.33	0.63
1:CI:53:GLN:NE2	1:CI:97:ARG:HB3	2.13	0.63
1:DN:157:LEU:HG	1:DN:164:ILE:HD11	1.80	0.63
1:HB:97:ARG:NH1	1:HB:112:ASP:OD2	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HV:75:ASN:HB2	1:HV:78:PHE:CD2	2.33	0.63
1:AE:50:PRO:HG2	1:AE:53:GLN:HB3	1.80	0.63
1:AN:106:GLY:HA3	1:DG:2:TYR:HD2	1.64	0.63
1:AU:140:TRP:HA	1:HG:22:TYR:HD2	1.59	0.63
1:BG:131:ASP:OD1	1:BG:134:ARG:NH1	2.31	0.63
1:BS:147:LEU:HD21	1:BT:138:ILE:HG21	1.80	0.63
1:CU:161:VAL:HG22	1:HZ:47:THR:HG21	1.79	0.63
1:EA:22:TYR:CD2	1:IB:140:TRP:HA	2.33	0.63
1:EH:2:TYR:HD2	1:FL:106:GLY:HA3	1.64	0.63
1:FC:50:PRO:HG2	1:FC:53:GLN:HB3	1.80	0.63
1:GJ:53:GLN:NE2	1:GJ:97:ARG:HB3	2.13	0.63
1:AQ:97:ARG:O	1:AR:4:GLN:HA	1.98	0.63
1:BJ:156:LYS:HB3	1:BJ:161:VAL:HB	1.80	0.63
1:BW:50:PRO:HG2	1:BW:53:GLN:HB3	1.80	0.63
1:BW:72:ASN:O	1:BW:72:ASN:ND2	2.28	0.63
1:CS:50:PRO:HG2	1:CS:53:GLN:HB3	1.81	0.63
1:EF:82:SER:HB3	1:EO:75:ASN:HB2	1.81	0.63
1:EF:142:ILE:HG23	1:EG:142:ILE:HD13	1.80	0.63
1:ER:97:ARG:O	1:ES:4:GLN:HA	1.98	0.63
1:ET:53:GLN:NE2	1:ET:97:ARG:HB3	2.13	0.63
1:GE:75:ASN:HB3	1:GE:78:PHE:CD2	2.34	0.63
1:HC:81:SER:HG	1:HC:126:PHE:HE1	1.45	0.63
1:HL:50:PRO:HG2	1:HL:53:GLN:HB3	1.80	0.63
1:HL:82:SER:HB3	1:HU:75:ASN:HB2	1.81	0.63
1:AE:82:SER:HB3	1:AN:75:ASN:HB2	1.81	0.63
1:AH:51:LYS:NZ	1:GJ:131:ASP:OD2	2.26	0.63
1:AM:81:SER:HG	1:AM:126:PHE:HE1	1.44	0.63
1:BK:97:ARG:NH1	1:BK:112:ASP:OD2	2.31	0.63
1:DZ:105:THR:HG22	1:IB:102:ASP:HA	1.78	0.63
1:EI:50:PRO:HG2	1:EI:53:GLN:HB3	1.81	0.63
1:EW:110:ILE:CD1	1:FS:127:THR:HG21	2.28	0.63
1:FJ:75:ASN:HB3	1:FJ:78:PHE:CD2	2.34	0.63
1:FM:97:ARG:O	1:FN:4:GLN:HA	1.98	0.63
1:FV:142:ILE:HG23	1:FW:142:ILE:HD13	1.80	0.63
1:HJ:114:PRO:HG2	1:HK:67:VAL:HG12	1.79	0.63
1:AE:142:ILE:HG23	1:AF:142:ILE:HD13	1.80	0.63
1:AN:75:ASN:HB3	1:AN:78:PHE:CD2	2.34	0.63
1:AO:156:LYS:HB3	1:AO:161:VAL:HB	1.80	0.63
1:BD:147:LEU:O	1:BE:135:LYS:NZ	2.29	0.63
1:CN:147:LEU:HD21	1:CO:138:ILE:HG21	1.80	0.63
1:DJ:127:THR:HG21	1:DK:110:ILE:HD12	1.78	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DK:82:SER:HB3	1:DT:75:ASN:HB2	1.81	0.63
1:DN:50:PRO:HG2	1:DN:53:GLN:HB3	1.81	0.63
1:DY:53:GLN:NE2	1:DY:97:ARG:HB3	2.13	0.63
1:EX:75:ASN:HD22	1:FS:82:SER:C	2.03	0.63
1:HE:53:GLN:NE2	1:HE:97:ARG:HB3	2.13	0.63
1:HU:75:ASN:HB3	1:HU:78:PHE:CD2	2.34	0.63
1:CK:78:PHE:HB3	1:FQ:112:ASP:OD1	1.98	0.63
1:CP:82:SER:HB3	1:CY:75:ASN:HB2	1.81	0.63
1:DW:97:ARG:O	1:DX:4:GLN:HA	1.98	0.63
1:EB:2:TYR:HD2	1:FJ:106:GLY:HA3	1.64	0.63
1:EF:128:LEU:HD22	1:EG:98:THR:HG21	1.81	0.63
1:EH:72:ASN:O	1:EH:72:ASN:ND2	2.27	0.63
1:FD:50:PRO:HG2	1:FD:53:GLN:HB3	1.81	0.63
1:GX:131:ASP:OD1	1:GX:134:ARG:NH1	2.31	0.63
1:GZ:50:PRO:HG2	1:GZ:53:GLN:HB3	1.79	0.63
1:AM:75:ASN:HB3	1:AM:78:PHE:CE2	2.34	0.62
1:BA:50:PRO:HG2	1:BA:53:GLN:HB3	1.81	0.62
1:BC:157:LEU:HG	1:BC:164:ILE:HD11	1.80	0.62
1:BI:75:ASN:HB3	1:BI:78:PHE:CD2	2.34	0.62
1:BT:157:LEU:HG	1:BT:164:ILE:HD11	1.80	0.62
1:DK:50:PRO:HG2	1:DK:53:GLN:HB3	1.80	0.62
1:DK:142:ILE:HG23	1:DL:142:ILE:HD13	1.80	0.62
1:DM:72:ASN:O	1:DM:72:ASN:ND2	2.27	0.62
1:ED:114:PRO:HG2	1:EE:67:VAL:HG12	1.79	0.62
1:EN:156:LYS:HB3	1:EN:161:VAL:HB	1.81	0.62
1:EO:75:ASN:HB3	1:EO:78:PHE:CD2	2.34	0.62
1:FA:82:SER:HB3	1:FJ:75:ASN:HB2	1.81	0.62
1:FB:50:PRO:HG2	1:FB:53:GLN:HB3	1.81	0.62
1:FL:97:ARG:NH1	1:FL:112:ASP:OD2	2.31	0.62
1:FY:157:LEU:HG	1:FY:164:ILE:HD11	1.80	0.62
1:HJ:147:LEU:HD21	1:HK:138:ILE:HG21	1.80	0.62
1:AI:81:SER:CB	1:GK:75:ASN:HD21	2.12	0.62
1:BG:50:PRO:HG2	1:BG:53:GLN:HB3	1.82	0.62
1:BH:156:LYS:HB3	1:BH:161:VAL:HB	1.81	0.62
1:BY:147:LEU:O	1:BZ:135:LYS:NZ	2.29	0.62
1:CX:156:LYS:HB3	1:CX:161:VAL:HB	1.81	0.62
1:DG:52:ASP:HB2	1:DH:74:GLN:OE1	1.99	0.62
1:EE:157:LEU:HG	1:EE:164:ILE:HD11	1.80	0.62
1:EW:52:ASP:HB2	1:EX:74:GLN:OE1	1.99	0.62
1:FO:53:GLN:NE2	1:FO:97:ARG:HB3	2.13	0.62
1:GF:156:LYS:HB3	1:GF:161:VAL:HB	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GP:157:LEU:HG	1:GP:164:ILE:HD11	1.80	0.62
1:GR:50:PRO:HG2	1:GR:53:GLN:HB3	1.81	0.62
1:GY:75:ASN:HB3	1:GY:78:PHE:CE2	2.34	0.62
1:AS:53:GLN:NE2	1:AS:97:ARG:HB3	2.13	0.62
1:BH:75:ASN:HB3	1:BH:78:PHE:CE2	2.34	0.62
1:BP:140:TRP:NE1	1:GL:55:GLU:OE2	2.32	0.62
1:BU:128:LEU:HD22	1:BV:98:THR:HG21	1.81	0.62
1:BV:50:PRO:HG2	1:BV:53:GLN:HB3	1.81	0.62
1:BX:50:PRO:HG2	1:BX:53:GLN:HB3	1.81	0.62
1:CP:81:SER:OG	1:CY:75:ASN:ND2	2.31	0.62
1:DT:75:ASN:HB3	1:DT:78:PHE:CD2	2.34	0.62
1:EB:155:SER:OG	1:HH:51:LYS:NZ	2.25	0.62
1:ET:153:VAL:HG13	1:ET:164:ILE:HD13	1.82	0.62
1:FA:128:LEU:HD22	1:FB:98:THR:HG21	1.81	0.62
1:FB:129:VAL:HG12	1:FB:134:ARG:HH21	1.64	0.62
1:FS:75:ASN:HD21	1:GN:84:LYS:H	1.47	0.62
1:FZ:68:TYR:CE1	1:GA:114:PRO:HD3	2.35	0.62
1:HM:50:PRO:HG2	1:HM:53:GLN:HB3	1.81	0.62
1:HT:156:LYS:HB3	1:HT:161:VAL:HB	1.81	0.62
1:HX:97:ARG:O	1:HY:4:GLN:HA	1.98	0.62
1:AV:51:LYS:HZ3	1:BQ:155:SER:CB	2.11	0.62
1:BY:68:TYR:CE1	1:BZ:114:PRO:HD3	2.35	0.62
1:CC:75:ASN:HB3	1:CC:78:PHE:CE2	2.34	0.62
1:CC:156:LYS:HB3	1:CC:161:VAL:HB	1.81	0.62
1:CR:86:THR:OG1	1:DV:51:LYS:HE3	1.99	0.62
1:DJ:157:LEU:HG	1:DJ:164:ILE:HD11	1.80	0.62
1:DS:156:LYS:HB3	1:DS:161:VAL:HB	1.81	0.62
1:DY:131:ASP:OD1	1:DY:134:ARG:NH1	2.32	0.62
1:EH:50:PRO:HG2	1:EH:53:GLN:HB3	1.80	0.62
1:EM:50:PRO:HG2	1:EM:53:GLN:HB3	1.82	0.62
1:FX:50:PRO:HG2	1:FX:53:GLN:HB3	1.80	0.62
1:GU:68:TYR:CE1	1:GV:114:PRO:HD3	2.35	0.62
1:HS:50:PRO:HG2	1:HS:53:GLN:HB3	1.82	0.62
1:AZ:142:ILE:HG23	1:BA:142:ILE:HD13	1.80	0.62
1:CP:128:LEU:HD22	1:CQ:98:THR:HG21	1.81	0.62
1:CZ:156:LYS:HB3	1:CZ:161:VAL:HB	1.80	0.62
1:FA:50:PRO:HG2	1:FA:53:GLN:HB3	1.80	0.62
1:FY:50:PRO:HG2	1:FY:53:GLN:HB3	1.81	0.62
1:GM:52:ASP:HB2	1:GN:74:GLN:OE1	1.99	0.62
1:HP:68:TYR:CE1	1:HQ:114:PRO:HD3	2.35	0.62
1:AS:131:ASP:OD1	1:AS:134:ARG:NH1	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BU:50:PRO:HG2	1:BU:53:GLN:HB3	1.80	0.62
1:CT:68:TYR:CE1	1:CU:114:PRO:HD3	2.35	0.62
1:DI:147:LEU:HD21	1:DJ:138:ILE:HG21	1.80	0.62
1:DK:128:LEU:HD22	1:DL:98:THR:HG21	1.81	0.62
1:DS:75:ASN:HB3	1:DS:78:PHE:CE2	2.34	0.62
1:EG:129:VAL:HG12	1:EG:134:ARG:HH21	1.64	0.62
1:FD:157:LEU:HG	1:FD:164:ILE:HD11	1.80	0.62
1:GC:50:PRO:HG2	1:GC:53:GLN:HB3	1.82	0.62
1:GQ:82:SER:HB3	1:GZ:75:ASN:HB2	1.81	0.62
1:AP:131:ASP:OD1	1:AP:134:ARG:NH2	2.33	0.62
1:AZ:82:SER:HB3	1:BI:75:ASN:HB2	1.81	0.62
1:BK:131:ASP:OD1	1:BK:134:ARG:NH2	2.33	0.62
1:BX:157:LEU:HG	1:BX:164:ILE:HD11	1.80	0.62
1:CD:75:ASN:HB3	1:CD:78:PHE:CD2	2.34	0.62
1:CP:142:ILE:HG23	1:CQ:142:ILE:HD13	1.80	0.62
1:CR:50:PRO:HG2	1:CR:53:GLN:HB3	1.80	0.62
1:DK:81:SER:OG	1:DT:75:ASN:ND2	2.31	0.62
1:DU:156:LYS:HB3	1:DU:161:VAL:HB	1.80	0.62
1:EZ:157:LEU:HG	1:EZ:164:ILE:HD11	1.80	0.62
1:FE:68:TYR:CE1	1:FF:114:PRO:HD3	2.35	0.62
1:FL:131:ASP:OD1	1:FL:134:ARG:NH2	2.33	0.62
1:FR:52:ASP:HB2	1:FS:74:GLN:OE1	1.99	0.62
1:FW:129:VAL:HG12	1:FW:134:ARG:HH21	1.64	0.62
1:HT:75:ASN:HB3	1:HT:78:PHE:CE2	2.34	0.62
1:HW:131:ASP:OD1	1:HW:134:ARG:NH2	2.33	0.62
1:HZ:153:VAL:HG13	1:HZ:164:ILE:HD13	1.82	0.62
1:AI:68:TYR:CE1	1:AJ:114:PRO:HD3	2.35	0.62
1:CY:75:ASN:HB3	1:CY:78:PHE:CD2	2.34	0.62
1:DL:50:PRO:HG2	1:DL:53:GLN:HB3	1.81	0.62
1:DO:68:TYR:CE1	1:DP:114:PRO:HD3	2.35	0.62
1:DY:153:VAL:HG13	1:DY:164:ILE:HD13	1.82	0.62
1:ER:81:SER:HG	1:ER:126:PHE:HE1	1.48	0.62
1:FA:75:ASN:HB2	1:FA:78:PHE:CE2	2.35	0.62
1:FV:75:ASN:HB2	1:FV:78:PHE:CE2	2.35	0.62
1:GQ:4:GLN:HB3	1:GR:98:THR:HA	1.82	0.62
1:GZ:75:ASN:HB3	1:GZ:78:PHE:CD2	2.34	0.62
1:HM:129:VAL:HG12	1:HM:134:ARG:HH21	1.64	0.62
1:AL:50:PRO:HG2	1:AL:53:GLN:HB3	1.82	0.62
1:CX:50:PRO:HG2	1:CX:53:GLN:HB3	1.82	0.62
1:EF:50:PRO:HG2	1:EF:53:GLN:HB3	1.80	0.62
1:EN:75:ASN:HB3	1:EN:78:PHE:CE2	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FH:153:VAL:HG13	1:FH:164:ILE:HD13	1.82	0.62
1:FI:50:PRO:HG2	1:FI:53:GLN:HB3	1.82	0.62
1:FZ:147:LEU:O	1:GA:135:LYS:NZ	2.29	0.62
1:GQ:50:PRO:HG2	1:GQ:53:GLN:HB3	1.80	0.62
1:GQ:142:ILE:HG23	1:GR:142:ILE:HD13	1.80	0.62
1:GR:107:LEU:HD12	1:HV:111:VAL:HG21	1.79	0.62
1:HB:131:ASP:OD1	1:HB:134:ARG:NH2	2.33	0.62
1:AS:153:VAL:HG13	1:AS:164:ILE:HD13	1.82	0.62
1:AZ:75:ASN:HB2	1:AZ:78:PHE:CE2	2.35	0.62
1:BU:4:GLN:HB3	1:BV:98:THR:HA	1.82	0.62
1:CL:52:ASP:HB2	1:CM:74:GLN:OE1	1.99	0.62
1:CL:104:ASN:O	1:DG:103:VAL:HG23	2.00	0.62
1:CP:50:PRO:HG2	1:CP:53:GLN:HB3	1.80	0.62
1:DA:97:ARG:NH1	1:DA:112:ASP:OD2	2.31	0.62
1:DA:131:ASP:OD1	1:DA:134:ARG:NH2	2.33	0.62
1:DD:153:VAL:HG13	1:DD:164:ILE:HD13	1.82	0.62
1:EF:75:ASN:HB2	1:EF:78:PHE:CE2	2.35	0.62
1:EQ:131:ASP:OD1	1:EQ:134:ARG:NH2	2.33	0.62
1:FZ:98:THR:HG23	1:GA:4:GLN:HB3	1.82	0.62
1:GB:72:ASN:O	1:GB:72:ASN:ND2	2.29	0.62
1:GD:156:LYS:HB3	1:GD:161:VAL:HB	1.81	0.62
1:GQ:128:LEU:HD22	1:GR:98:THR:HG21	1.81	0.62
1:GT:157:LEU:HG	1:GT:164:ILE:HD11	1.80	0.62
1:HE:153:VAL:HG13	1:HE:164:ILE:HD13	1.82	0.62
1:HY:81:SER:HG	1:HY:126:PHE:HE1	1.46	0.62
1:AG:84:LYS:HD3	1:BJ:74:GLN:OE1	2.00	0.61
1:BC:50:PRO:HG2	1:BC:53:GLN:HB3	1.81	0.61
1:BM:85:GLY:HA2	1:BM:125:ASP:H	1.66	0.61
1:BN:153:VAL:HG13	1:BN:164:ILE:HD13	1.82	0.61
1:BS:114:PRO:HG2	1:BT:67:VAL:HG12	1.79	0.61
1:BU:82:SER:HB3	1:CD:75:ASN:HB2	1.81	0.61
1:CL:99:GLN:HB2	1:CL:110:ILE:HG12	1.82	0.61
1:CP:4:GLN:HB3	1:CQ:98:THR:HA	1.82	0.61
1:CP:75:ASN:HB2	1:CP:78:PHE:CE2	2.35	0.61
1:CX:75:ASN:HB3	1:CX:78:PHE:CE2	2.34	0.61
1:EJ:68:TYR:CE1	1:EK:114:PRO:HD3	2.35	0.61
1:EN:50:PRO:HG2	1:EN:53:GLN:HB3	1.82	0.61
1:FA:81:SER:OG	1:FJ:75:ASN:ND2	2.31	0.61
1:GM:99:GLN:HB2	1:GM:110:ILE:HG12	1.82	0.61
1:GQ:75:ASN:HB2	1:GQ:78:PHE:CE2	2.35	0.61
1:HL:75:ASN:HB2	1:HL:78:PHE:CE2	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:128:LEU:HD22	1:AF:98:THR:HG21	1.81	0.61
1:BB:50:PRO:HG2	1:BB:53:GLN:HB3	1.80	0.61
1:BE:161:VAL:HG22	1:FO:47:THR:HG21	1.81	0.61
1:BU:75:ASN:HB2	1:BU:78:PHE:CE2	2.35	0.61
1:CS:157:LEU:HG	1:CS:164:ILE:HD11	1.80	0.61
1:DO:98:THR:HG23	1:DP:4:GLN:HB3	1.82	0.61
1:EJ:147:LEU:O	1:EK:135:LYS:NZ	2.29	0.61
1:FL:50:PRO:HG2	1:FL:53:GLN:HB3	1.82	0.61
1:GO:110:ILE:HD12	1:GX:127:THR:HG21	1.83	0.61
1:AE:4:GLN:HB3	1:AF:98:THR:HA	1.82	0.61
1:AE:75:ASN:HB2	1:AE:78:PHE:CE2	2.35	0.61
1:BN:131:ASP:OD1	1:BN:134:ARG:NH1	2.32	0.61
1:BQ:99:GLN:HB2	1:BQ:110:ILE:HG12	1.82	0.61
1:EG:50:PRO:HG2	1:EG:53:GLN:HB3	1.81	0.61
1:FG:116:TRP:HZ3	1:FH:67:VAL:HG13	1.66	0.61
1:FX:72:ASN:O	1:FX:72:ASN:ND2	2.28	0.61
1:GU:98:THR:HG23	1:GV:4:GLN:HB3	1.83	0.61
1:HW:50:PRO:HG2	1:HW:53:GLN:HB3	1.82	0.61
1:HY:85:GLY:HA2	1:HY:125:ASP:H	1.65	0.61
1:AC:110:ILE:HD12	1:AL:127:THR:HG21	1.82	0.61
1:AG:136:SER:HG	1:AH:22:TYR:HH	1.49	0.61
1:AL:153:VAL:HG13	1:AL:164:ILE:HD13	1.82	0.61
1:AO:78:PHE:CE1	1:AP:110:ILE:HB	2.36	0.61
1:AZ:128:LEU:HD22	1:BA:98:THR:HG21	1.81	0.61
1:BG:153:VAL:HG13	1:BG:164:ILE:HD13	1.82	0.61
1:CV:116:TRP:HZ3	1:CW:67:VAL:HG13	1.66	0.61
1:CW:50:PRO:HG2	1:CW:53:GLN:HB3	1.81	0.61
1:DS:50:PRO:HG2	1:DS:53:GLN:HB3	1.82	0.61
1:GB:116:TRP:HZ3	1:GC:67:VAL:HG13	1.66	0.61
1:GT:50:PRO:HG2	1:GT:53:GLN:HB3	1.81	0.61
1:GT:102:ASP:HA	1:HW:105:THR:HG22	1.82	0.61
1:HB:50:PRO:HG2	1:HB:53:GLN:HB3	1.82	0.61
1:HL:4:GLN:HB3	1:HM:98:THR:HA	1.82	0.61
1:AP:50:PRO:HG2	1:AP:53:GLN:HB3	1.82	0.61
1:AV:52:ASP:HB2	1:AW:74:GLN:OE1	1.99	0.61
1:DQ:33:MET:HE3	1:DQ:45:MET:HB2	1.83	0.61
1:DU:78:PHE:CE1	1:DV:110:ILE:HB	2.36	0.61
1:EB:52:ASP:HB2	1:EC:74:GLN:OE1	1.99	0.61
1:GC:153:VAL:HG13	1:GC:164:ILE:HD13	1.82	0.61
1:GG:131:ASP:OD1	1:GG:134:ARG:NH2	2.33	0.61
1:HC:153:VAL:HG13	1:HC:164:ILE:HD13	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:99:GLN:HB2	1:AA:110:ILE:HG12	1.82	0.61
1:AF:50:PRO:HG2	1:AF:53:GLN:HB3	1.81	0.61
1:AF:129:VAL:HG12	1:AF:134:ARG:HH21	1.64	0.61
1:AT:75:ASN:HD21	1:FZ:81:SER:CB	2.13	0.61
1:BA:129:VAL:HG12	1:BA:134:ARG:HH21	1.64	0.61
1:BD:98:THR:HG23	1:BE:4:GLN:HB3	1.83	0.61
1:BJ:78:PHE:CE1	1:BK:110:ILE:HB	2.36	0.61
1:CW:153:VAL:HG13	1:CW:164:ILE:HD13	1.82	0.61
1:DK:75:ASN:HB2	1:DK:78:PHE:CE2	2.35	0.61
1:DV:131:ASP:OD1	1:DV:134:ARG:NH2	2.33	0.61
1:EB:99:GLN:HB2	1:EB:110:ILE:HG12	1.82	0.61
1:EP:78:PHE:CE1	1:EQ:110:ILE:HB	2.35	0.61
1:FK:78:PHE:CE1	1:FL:110:ILE:HB	2.35	0.61
1:GQ:99:GLN:HB2	1:GQ:110:ILE:HG12	1.83	0.61
1:HA:78:PHE:CE1	1:HB:110:ILE:HB	2.36	0.61
1:HH:52:ASP:HB2	1:HI:74:GLN:OE1	1.99	0.61
1:HV:78:PHE:CE1	1:HW:110:ILE:HB	2.36	0.61
1:AM:156:LYS:HB3	1:AM:161:VAL:HB	1.81	0.61
1:BD:68:TYR:CE1	1:BE:114:PRO:HD3	2.35	0.61
1:BQ:52:ASP:HB2	1:BR:74:GLN:OE1	1.99	0.61
1:CC:50:PRO:HG2	1:CC:53:GLN:HB3	1.82	0.61
1:CQ:50:PRO:HG2	1:CQ:53:GLN:HB3	1.81	0.61
1:CQ:129:VAL:HG12	1:CQ:134:ARG:HH21	1.64	0.61
1:DG:99:GLN:HB2	1:DG:110:ILE:HG12	1.82	0.61
1:DI:110:ILE:HD12	1:DR:127:THR:HG21	1.83	0.61
1:EA:140:TRP:HA	1:IB:22:TYR:CD2	2.35	0.61
1:FI:75:ASN:HB3	1:FI:78:PHE:CE2	2.34	0.61
1:FN:85:GLY:HA2	1:FN:125:ASP:H	1.66	0.61
1:FO:131:ASP:OD1	1:FO:134:ARG:NH1	2.32	0.61
1:FO:153:VAL:HG13	1:FO:164:ILE:HD13	1.82	0.61
1:HH:99:GLN:HB2	1:HH:110:ILE:HG12	1.82	0.61
1:HP:98:THR:HG23	1:HQ:4:GLN:HB3	1.83	0.61
1:HW:97:ARG:NH1	1:HW:112:ASP:OD2	2.31	0.61
1:AI:98:THR:HG23	1:AJ:4:GLN:HB3	1.82	0.61
1:BH:50:PRO:HG2	1:BH:53:GLN:HB3	1.82	0.61
1:CH:85:GLY:HA2	1:CH:125:ASP:H	1.66	0.61
1:EF:4:GLN:HB3	1:EG:98:THR:HA	1.82	0.61
1:FI:156:LYS:HB3	1:FI:161:VAL:HB	1.81	0.61
1:FV:82:SER:HB3	1:GE:75:ASN:HB2	1.81	0.61
1:FV:99:GLN:HB2	1:FV:110:ILE:HG12	1.83	0.61
1:AA:52:ASP:HB2	1:AB:74:GLN:OE1	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:75:ASN:HB3	1:AM:78:PHE:CD2	2.36	0.61
1:BF:116:TRP:HZ3	1:BG:67:VAL:HG13	1.66	0.61
1:BO:67:VAL:HG22	1:BO:83:SER:O	2.01	0.61
1:CB:50:PRO:HG2	1:CB:53:GLN:HB3	1.82	0.61
1:CF:131:ASP:OD1	1:CF:134:ARG:NH2	2.33	0.61
1:CR:26:LEU:HD13	1:CS:144:GLN:NE2	2.16	0.61
1:DA:50:PRO:HG2	1:DA:53:GLN:HB3	1.82	0.61
1:DC:126:PHE:CD2	1:DC:128:LEU:HG	2.36	0.61
1:DM:26:LEU:HD13	1:DN:144:GLN:NE2	2.16	0.61
1:DR:153:VAL:HG13	1:DR:164:ILE:HD13	1.82	0.61
1:EY:110:ILE:HD12	1:FH:127:THR:HG21	1.83	0.61
1:FA:4:GLN:HB3	1:FB:98:THR:HA	1.82	0.61
1:GD:50:PRO:HG2	1:GD:53:GLN:HB3	1.82	0.61
1:HR:116:TRP:HZ3	1:HS:67:VAL:HG13	1.66	0.61
1:HX:153:VAL:HG13	1:HX:164:ILE:HD13	1.83	0.61
1:AU:26:LEU:HD13	1:HG:144:GLN:NE2	2.16	0.61
1:BB:26:LEU:HD13	1:BC:144:GLN:NE2	2.16	0.61
1:BQ:116:TRP:CZ3	1:BR:67:VAL:HG13	2.36	0.61
1:CA:116:TRP:HZ3	1:CB:67:VAL:HG13	1.66	0.61
1:CF:50:PRO:HG2	1:CF:53:GLN:HB3	1.82	0.61
1:DK:4:GLN:HB3	1:DL:98:THR:HA	1.82	0.61
1:DS:75:ASN:HB3	1:DS:78:PHE:CD2	2.36	0.61
1:DX:126:PHE:CD2	1:DX:128:LEU:HG	2.36	0.61
1:EC:82:SER:C	1:HI:75:ASN:HD22	2.05	0.61
1:GD:75:ASN:HB3	1:GD:78:PHE:CE2	2.34	0.61
1:GI:126:PHE:CD2	1:GI:128:LEU:HG	2.36	0.61
1:GX:153:VAL:HG13	1:GX:164:ILE:HD13	1.82	0.61
1:GY:156:LYS:HB3	1:GY:161:VAL:HB	1.81	0.61
1:HD:126:PHE:CD2	1:HD:128:LEU:HG	2.36	0.61
1:HF:67:VAL:HG22	1:HF:83:SER:O	2.01	0.61
1:HH:116:TRP:CZ3	1:HI:67:VAL:HG13	2.36	0.61
1:HL:128:LEU:HD22	1:HM:98:THR:HG21	1.81	0.61
1:HO:50:PRO:HG2	1:HO:53:GLN:HB3	1.81	0.61
1:HT:50:PRO:HG2	1:HT:53:GLN:HB3	1.82	0.61
1:HT:75:ASN:HB3	1:HT:78:PHE:CD2	2.36	0.61
1:AE:99:GLN:HB2	1:AE:110:ILE:HG12	1.83	0.60
1:AG:26:LEU:HD13	1:AH:144:GLN:NE2	2.16	0.60
1:AJ:104:ASN:ND2	1:GA:104:ASN:HD21	1.98	0.60
1:AQ:153:VAL:HG13	1:AQ:164:ILE:HD13	1.83	0.60
1:BU:99:GLN:HB2	1:BU:110:ILE:HG12	1.83	0.60
1:CE:78:PHE:CE1	1:CF:110:ILE:HB	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DG:116:TRP:CZ3	1:DH:67:VAL:HG13	2.36	0.60
1:DR:50:PRO:HG2	1:DR:53:GLN:HB3	1.82	0.60
1:DW:153:VAL:HG13	1:DW:164:ILE:HD13	1.83	0.60
1:FA:99:GLN:HB2	1:FA:110:ILE:HG12	1.83	0.60
1:FH:50:PRO:HG2	1:FH:53:GLN:HB3	1.82	0.60
1:FW:50:PRO:HG2	1:FW:53:GLN:HB3	1.81	0.60
1:GR:129:VAL:HG12	1:GR:134:ARG:HH21	1.64	0.60
1:HK:75:ASN:ND2	1:HS:125:ASP:O	2.34	0.60
1:AH:50:PRO:HG2	1:AH:53:GLN:HB3	1.81	0.60
1:AT:156:LYS:HB3	1:AT:161:VAL:HB	1.84	0.60
1:AY:75:ASN:ND2	1:BG:125:ASP:O	2.34	0.60
1:BV:129:VAL:HG12	1:BV:134:ARG:HH21	1.64	0.60
1:CH:126:PHE:CD2	1:CH:128:LEU:HG	2.36	0.60
1:CN:110:ILE:HD12	1:CW:127:THR:HG21	1.82	0.60
1:CX:75:ASN:HB3	1:CX:78:PHE:CD2	2.36	0.60
1:DC:85:GLY:HA2	1:DC:125:ASP:H	1.65	0.60
1:DE:67:VAL:HG22	1:DE:83:SER:O	2.01	0.60
1:DL:129:VAL:HG12	1:DL:134:ARG:HH21	1.64	0.60
1:DQ:116:TRP:HZ3	1:DR:67:VAL:HG13	1.66	0.60
1:ED:110:ILE:HD12	1:EM:127:THR:HG21	1.83	0.60
1:EH:26:LEU:HD13	1:EI:144:GLN:NE2	2.16	0.60
1:FV:4:GLN:HB3	1:FW:98:THR:HA	1.82	0.60
1:GJ:131:ASP:OD1	1:GJ:134:ARG:NH1	2.32	0.60
1:GJ:153:VAL:HG13	1:GJ:164:ILE:HD13	1.82	0.60
1:GP:75:ASN:ND2	1:GX:125:ASP:O	2.34	0.60
1:GX:50:PRO:HG2	1:GX:53:GLN:HB3	1.82	0.60
1:GY:50:PRO:HG2	1:GY:53:GLN:HB3	1.82	0.60
1:HS:153:VAL:HG13	1:HS:164:ILE:HD13	1.82	0.60
1:AC:50:PRO:HG2	1:AC:53:GLN:HB3	1.83	0.60
1:AK:116:TRP:HZ3	1:AL:67:VAL:HG13	1.66	0.60
1:CI:131:ASP:OD1	1:CI:134:ARG:NH1	2.32	0.60
1:CJ:67:VAL:HG22	1:CJ:83:SER:O	2.01	0.60
1:DE:156:LYS:HB3	1:DE:161:VAL:HB	1.84	0.60
1:ER:153:VAL:HG13	1:ER:164:ILE:HD13	1.83	0.60
1:EW:99:GLN:HB2	1:EW:110:ILE:HG12	1.82	0.60
1:FI:75:ASN:HB3	1:FI:78:PHE:CD2	2.36	0.60
1:HF:156:LYS:HB3	1:HF:161:VAL:HB	1.84	0.60
1:AK:72:ASN:O	1:AK:72:ASN:ND2	2.29	0.60
1:AM:50:PRO:HG2	1:AM:53:GLN:HB3	1.82	0.60
1:AR:126:PHE:CD2	1:AR:128:LEU:HG	2.36	0.60
1:BB:112:ASP:O	1:BC:76:GLN:NE2	2.27	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BM:126:PHE:CD2	1:BM:128:LEU:HG	2.36	0.60
1:BP:144:GLN:HA	1:GL:23:GLN:HB2	1.84	0.60
1:CN:50:PRO:HG2	1:CN:53:GLN:HB3	1.83	0.60
1:CP:99:GLN:HB2	1:CP:110:ILE:HG12	1.83	0.60
1:CR:84:LYS:HD3	1:DU:74:GLN:OE1	2.01	0.60
1:CT:98:THR:HG23	1:CU:4:GLN:HB3	1.82	0.60
1:CZ:78:PHE:CE1	1:DA:110:ILE:HB	2.36	0.60
1:DK:99:GLN:HB2	1:DK:110:ILE:HG12	1.83	0.60
1:DV:50:PRO:HG2	1:DV:53:GLN:HB3	1.83	0.60
1:DW:51:LYS:HE2	1:DY:158:CYS:HB2	1.83	0.60
1:DZ:67:VAL:HG22	1:DZ:83:SER:O	2.01	0.60
1:EC:127:THR:HG21	1:HH:110:ILE:HD12	1.83	0.60
1:EW:2:TYR:HD2	1:GE:106:GLY:HA3	1.66	0.60
1:EX:75:ASN:HB2	1:FS:82:SER:HB2	1.83	0.60
1:FM:51:LYS:HE2	1:FO:158:CYS:HB2	1.84	0.60
1:FP:67:VAL:HG22	1:FP:83:SER:O	2.01	0.60
1:FX:26:LEU:HD13	1:FY:144:GLN:NE2	2.16	0.60
1:GF:78:PHE:CE1	1:GG:110:ILE:HB	2.36	0.60
1:GG:50:PRO:HG2	1:GG:53:GLN:HB3	1.82	0.60
1:GH:51:LYS:HE2	1:GJ:158:CYS:HB2	1.84	0.60
1:IA:67:VAL:HG22	1:IA:83:SER:O	2.01	0.60
1:IB:101:THR:HA	1:IB:108:PRO:HA	1.84	0.60
1:AS:100:SER:HB2	1:AT:2:TYR:HA	1.84	0.60
1:AU:101:THR:HA	1:AU:108:PRO:HA	1.84	0.60
1:CG:51:LYS:HE2	1:CI:158:CYS:HB2	1.84	0.60
1:CG:153:VAL:HG13	1:CG:164:ILE:HD13	1.83	0.60
1:CI:153:VAL:HG13	1:CI:164:ILE:HD13	1.82	0.60
1:EJ:98:THR:HG23	1:EK:4:GLN:HB3	1.82	0.60
1:ES:85:GLY:HA2	1:ES:125:ASP:H	1.65	0.60
1:ES:126:PHE:CD2	1:ES:128:LEU:HG	2.36	0.60
1:EW:82:SER:HB3	1:GD:75:ASN:HB2	1.83	0.60
1:FT:110:ILE:HD12	1:GC:127:THR:HG21	1.83	0.60
1:GQ:81:SER:OG	1:GZ:75:ASN:ND2	2.31	0.60
1:HY:126:PHE:CD2	1:HY:128:LEU:HG	2.36	0.60
1:BO:97:ARG:NH1	1:BO:112:ASP:OD2	2.33	0.60
1:BP:98:THR:HA	1:GL:4:GLN:HB3	1.82	0.60
1:BY:98:THR:HG23	1:BZ:4:GLN:HB3	1.82	0.60
1:DF:101:THR:HA	1:DF:108:PRO:HA	1.84	0.60
1:DF:118:SER:HB2	1:EV:120:THR:HB	1.81	0.60
1:DJ:75:ASN:ND2	1:DR:125:ASP:O	2.34	0.60
1:EF:99:GLN:HB2	1:EF:110:ILE:HG12	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EN:75:ASN:HB3	1:EN:78:PHE:CD2	2.36	0.60
1:FR:82:SER:CB	1:GY:75:ASN:HB2	2.26	0.60
1:FR:99:GLN:HB2	1:FR:110:ILE:HG12	1.82	0.60
1:GG:97:ARG:NH1	1:GG:112:ASP:OD2	2.31	0.60
1:GJ:99:GLN:HB2	1:GJ:110:ILE:HG12	1.84	0.60
1:GL:85:GLY:HA2	1:GL:125:ASP:HB2	1.84	0.60
1:GS:26:LEU:HD13	1:GT:144:GLN:NE2	2.16	0.60
1:GY:75:ASN:HB3	1:GY:78:PHE:CD2	2.36	0.60
1:AQ:51:LYS:HE2	1:AS:158:CYS:HB2	1.84	0.60
1:AV:116:TRP:CZ3	1:AW:67:VAL:HG13	2.36	0.60
1:AZ:99:GLN:HB2	1:AZ:110:ILE:HG12	1.83	0.60
1:BS:50:PRO:HG2	1:BS:53:GLN:HB3	1.83	0.60
1:CC:75:ASN:HB3	1:CC:78:PHE:CD2	2.36	0.60
1:EA:85:GLY:HA2	1:EA:125:ASP:HB2	1.84	0.60
1:EB:116:TRP:CZ3	1:EC:67:VAL:HG13	2.36	0.60
1:EY:50:PRO:HG2	1:EY:53:GLN:HB3	1.83	0.60
1:FE:98:THR:HG23	1:FF:4:GLN:HB3	1.83	0.60
1:GK:156:LYS:HB3	1:GK:161:VAL:HB	1.84	0.60
1:HC:51:LYS:HE2	1:HE:158:CYS:HB2	1.84	0.60
1:HJ:110:ILE:HD12	1:HS:127:THR:HG21	1.82	0.60
1:HN:26:LEU:HD13	1:HO:144:GLN:NE2	2.16	0.60
1:IA:97:ARG:NH1	1:IA:112:ASP:OD2	2.33	0.60
1:AP:153:VAL:HG13	1:AP:164:ILE:HD13	1.84	0.60
1:AR:85:GLY:HA2	1:AR:125:ASP:H	1.65	0.60
1:AS:99:GLN:HB2	1:AS:110:ILE:HG12	1.84	0.60
1:AS:106:GLY:HA3	1:FZ:2:TYR:HD2	1.66	0.60
1:AU:53:GLN:NE2	1:HG:7:GLY:HA2	2.17	0.60
1:BH:75:ASN:HB3	1:BH:78:PHE:CD2	2.36	0.60
1:BL:153:VAL:HG13	1:BL:164:ILE:HD13	1.83	0.60
1:CK:101:THR:HA	1:CK:108:PRO:HA	1.84	0.60
1:DI:50:PRO:HG2	1:DI:53:GLN:HB3	1.83	0.60
1:DZ:156:LYS:HB3	1:DZ:161:VAL:HB	1.84	0.60
1:ED:50:PRO:HG2	1:ED:53:GLN:HB3	1.83	0.60
1:EQ:97:ARG:NH1	1:EQ:112:ASP:OD2	2.31	0.60
1:FU:75:ASN:ND2	1:GC:125:ASP:O	2.34	0.60
1:GH:153:VAL:HG13	1:GH:164:ILE:HD13	1.83	0.60
1:GI:85:GLY:HA2	1:GI:125:ASP:H	1.65	0.60
1:GK:97:ARG:NH1	1:GK:112:ASP:OD2	2.33	0.60
1:GO:50:PRO:HG2	1:GO:53:GLN:HB3	1.83	0.60
1:HD:85:GLY:HA2	1:HD:125:ASP:H	1.66	0.60
1:HE:99:GLN:HB2	1:HE:110:ILE:HG12	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HN:72:ASN:O	1:HN:72:ASN:ND2	2.28	0.60
1:BT:75:ASN:ND2	1:CB:125:ASP:O	2.34	0.60
1:EL:116:TRP:HZ3	1:EM:67:VAL:HG13	1.66	0.60
1:EM:153:VAL:HG13	1:EM:164:ILE:HD13	1.82	0.60
1:FC:26:LEU:HD13	1:FD:144:GLN:NE2	2.16	0.60
1:FV:128:LEU:HD22	1:FW:98:THR:HG21	1.81	0.60
1:GS:112:ASP:O	1:GT:76:GLN:NE2	2.27	0.60
1:HB:153:VAL:HG13	1:HB:164:ILE:HD13	1.84	0.60
1:HJ:50:PRO:HG2	1:HJ:53:GLN:HB3	1.83	0.60
1:BB:72:ASN:O	1:BB:72:ASN:ND2	2.28	0.60
1:BN:99:GLN:HB2	1:BN:110:ILE:HG12	1.84	0.60
1:CF:153:VAL:HG13	1:CF:164:ILE:HD13	1.84	0.60
1:CO:75:ASN:ND2	1:CW:125:ASP:O	2.34	0.60
1:DF:120:THR:HB	1:EV:118:SER:HB2	1.83	0.60
1:EZ:75:ASN:ND2	1:FH:125:ASP:O	2.34	0.60
1:GU:116:TRP:CZ3	1:GV:67:VAL:HG13	2.34	0.60
1:HL:99:GLN:HB2	1:HL:110:ILE:HG12	1.83	0.60
1:HZ:99:GLN:HB2	1:HZ:110:ILE:HG12	1.84	0.60
1:AE:81:SER:OG	1:AN:75:ASN:ND2	2.31	0.59
1:AP:63:LYS:NZ	1:DK:74:GLN:OE1	2.34	0.59
1:BK:50:PRO:HG2	1:BK:53:GLN:HB3	1.82	0.59
1:BW:26:LEU:HD13	1:BX:144:GLN:NE2	2.16	0.59
1:DD:131:ASP:OD1	1:DD:134:ARG:NH1	2.32	0.59
1:EB:153:VAL:HG13	1:EB:164:ILE:HD13	1.84	0.59
1:EB:155:SER:CB	1:HH:51:LYS:HZ3	2.14	0.59
1:EE:75:ASN:ND2	1:EM:125:ASP:O	2.34	0.59
1:ER:55:GLU:OE2	1:ES:140:TRP:NE1	2.35	0.59
1:EV:85:GLY:HA2	1:EV:125:ASP:HB2	1.84	0.59
1:FN:126:PHE:CD2	1:FN:128:LEU:HG	2.36	0.59
1:FR:153:VAL:HG13	1:FR:164:ILE:HD13	1.84	0.59
1:GM:116:TRP:CZ3	1:GN:67:VAL:HG13	2.36	0.59
1:HX:51:LYS:HE2	1:HZ:158:CYS:HB2	1.84	0.59
1:HX:55:GLU:OE2	1:HY:140:TRP:NE1	2.35	0.59
1:AA:153:VAL:HG13	1:AA:164:ILE:HD13	1.84	0.59
1:AV:153:VAL:HG13	1:AV:164:ILE:HD13	1.84	0.59
1:BJ:75:ASN:HD22	1:BJ:78:PHE:HE2	1.50	0.59
1:BU:81:SER:OG	1:CD:75:ASN:ND2	2.31	0.59
1:CE:75:ASN:HB2	1:CE:78:PHE:HD2	1.68	0.59
1:DB:55:GLU:OE2	1:DC:140:TRP:NE1	2.35	0.59
1:GK:67:VAL:HG22	1:GK:83:SER:O	2.01	0.59
1:AA:116:TRP:CZ3	1:AB:67:VAL:HG13	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:75:ASN:ND2	1:AL:125:ASP:O	2.34	0.59
1:AT:67:VAL:HG22	1:AT:83:SER:O	2.01	0.59
1:CG:55:GLU:OE2	1:CH:140:TRP:NE1	2.35	0.59
1:CJ:156:LYS:HB3	1:CJ:161:VAL:HB	1.83	0.59
1:DD:99:GLN:HB2	1:DD:110:ILE:HG12	1.84	0.59
1:DF:140:TRP:HA	1:EV:22:TYR:CD2	2.38	0.59
1:DX:153:VAL:HG13	1:DX:164:ILE:HD13	1.84	0.59
1:EW:153:VAL:HG13	1:EW:164:ILE:HD13	1.84	0.59
1:EX:75:ASN:ND2	1:FS:82:SER:C	2.56	0.59
1:FL:153:VAL:HG13	1:FL:164:ILE:HD13	1.84	0.59
1:FM:153:VAL:HG13	1:FM:164:ILE:HD13	1.83	0.59
1:FN:153:VAL:HG13	1:FN:164:ILE:HD13	1.84	0.59
1:FO:99:GLN:HB2	1:FO:110:ILE:HG12	1.84	0.59
1:HZ:131:ASP:OD1	1:HZ:134:ARG:NH1	2.32	0.59
1:IA:156:LYS:HB3	1:IA:161:VAL:HB	1.84	0.59
1:AB:75:ASN:HD21	1:AW:84:LYS:H	1.50	0.59
1:AG:112:ASP:O	1:AH:76:GLN:NE2	2.27	0.59
1:AO:75:ASN:HB2	1:AO:78:PHE:HD2	1.68	0.59
1:AO:75:ASN:HD22	1:AO:78:PHE:HE2	1.50	0.59
1:BL:55:GLU:OE2	1:BM:140:TRP:NE1	2.35	0.59
1:BO:156:LYS:HB3	1:BO:161:VAL:HB	1.84	0.59
1:CI:140:TRP:HA	1:CJ:22:TYR:CD2	2.38	0.59
1:CZ:75:ASN:HD22	1:CZ:78:PHE:HE2	1.50	0.59
1:DC:153:VAL:HG13	1:DC:164:ILE:HD13	1.85	0.59
1:DX:85:GLY:HA2	1:DX:125:ASP:H	1.66	0.59
1:EP:75:ASN:HB2	1:EP:78:PHE:HD2	1.68	0.59
1:EQ:50:PRO:HG2	1:EQ:53:GLN:HB3	1.83	0.59
1:FI:55:GLU:OE1	1:FJ:8:TYR:HE1	1.86	0.59
1:FQ:101:THR:HA	1:FQ:108:PRO:HA	1.84	0.59
1:GD:75:ASN:HB3	1:GD:78:PHE:CD2	2.36	0.59
1:GW:116:TRP:HZ3	1:GX:67:VAL:HG13	1.66	0.59
1:HW:153:VAL:HG13	1:HW:164:ILE:HD13	1.84	0.59
1:AR:153:VAL:HG13	1:AR:164:ILE:HD13	1.84	0.59
1:AU:85:GLY:HA2	1:AU:125:ASP:HB2	1.84	0.59
1:AX:50:PRO:HG2	1:AX:53:GLN:HB3	1.83	0.59
1:AX:110:ILE:HD12	1:BG:127:THR:HG21	1.82	0.59
1:BQ:153:VAL:HG13	1:BQ:164:ILE:HD13	1.84	0.59
1:BS:110:ILE:HD12	1:CB:127:THR:HG21	1.83	0.59
1:CB:153:VAL:HG13	1:CB:164:ILE:HD13	1.82	0.59
1:CL:153:VAL:HG13	1:CL:164:ILE:HD13	1.84	0.59
1:CR:72:ASN:O	1:CR:72:ASN:ND2	2.28	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ET:140:TRP:HA	1:EU:22:TYR:CD2	2.37	0.59
1:EV:101:THR:HA	1:EV:108:PRO:HA	1.84	0.59
1:FD:68:TYR:HD1	1:FD:73:VAL:HG21	1.68	0.59
1:FM:55:GLU:OE2	1:FN:140:TRP:NE1	2.35	0.59
1:FQ:85:GLY:HA2	1:FQ:125:ASP:HB2	1.84	0.59
1:GY:55:GLU:OE1	1:GZ:8:TYR:HE1	1.86	0.59
1:HE:131:ASP:OD1	1:HE:134:ARG:NH1	2.32	0.59
1:HH:153:VAL:HG13	1:HH:164:ILE:HD13	1.84	0.59
1:IB:85:GLY:HA2	1:IB:125:ASP:HB2	1.84	0.59
1:AQ:55:GLU:OE2	1:AR:140:TRP:NE1	2.35	0.59
1:AZ:4:GLN:HB3	1:BA:98:THR:HA	1.82	0.59
1:BN:140:TRP:HA	1:BO:22:TYR:CD2	2.38	0.59
1:BP:85:GLY:HA2	1:BP:125:ASP:HB2	1.84	0.59
1:BP:101:THR:HA	1:BP:108:PRO:HA	1.84	0.59
1:CE:95:ILE:HD11	1:CF:72:ASN:O	2.03	0.59
1:DG:153:VAL:HG13	1:DG:164:ILE:HD13	1.84	0.59
1:DU:95:ILE:HD11	1:DV:72:ASN:O	2.03	0.59
1:EA:140:TRP:NE1	1:IB:55:GLU:OE2	2.35	0.59
1:EU:67:VAL:HG22	1:EU:83:SER:O	2.01	0.59
1:EZ:97:ARG:HA	1:EZ:112:ASP:HB3	1.85	0.59
1:FO:100:SER:HB2	1:FP:2:TYR:HA	1.84	0.59
1:GH:55:GLU:OE2	1:GI:140:TRP:NE1	2.35	0.59
1:HV:95:ILE:HD11	1:HW:72:ASN:O	2.03	0.59
1:BH:55:GLU:OE1	1:BI:8:TYR:HE1	1.86	0.59
1:BI:101:THR:HA	1:BI:108:PRO:HA	1.85	0.59
1:DJ:97:ARG:HA	1:DJ:112:ASP:HB3	1.85	0.59
1:DW:55:GLU:OE2	1:DX:140:TRP:NE1	2.35	0.59
1:EQ:153:VAL:HG13	1:EQ:164:ILE:HD13	1.84	0.59
1:EU:97:ARG:NH1	1:EU:112:ASP:OD2	2.33	0.59
1:GM:153:VAL:HG13	1:GM:164:ILE:HD13	1.84	0.59
1:HC:55:GLU:OE2	1:HD:140:TRP:NE1	2.35	0.59
1:HG:101:THR:HA	1:HG:108:PRO:HA	1.84	0.59
1:HL:81:SER:OG	1:HU:75:ASN:ND2	2.31	0.59
1:HR:157:LEU:HG	1:HR:164:ILE:HD11	1.85	0.59
1:HZ:100:SER:HB2	1:IA:2:TYR:HA	1.84	0.59
1:AT:97:ARG:NH1	1:AT:112:ASP:OD2	2.33	0.59
1:AV:99:GLN:HB2	1:AV:110:ILE:HG12	1.82	0.59
1:BE:125:ASP:O	1:BG:75:ASN:ND2	2.36	0.59
1:BF:157:LEU:HG	1:BF:164:ILE:HD11	1.85	0.59
1:CL:33:MET:CE	1:CL:45:MET:HB2	2.33	0.59
1:CO:97:ARG:HA	1:CO:112:ASP:HB3	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DQ:157:LEU:HG	1:DQ:164:ILE:HD11	1.85	0.59
1:DY:163:ARG:NH2	1:DY:166:GLY:O	2.31	0.59
1:GE:101:THR:HA	1:GE:108:PRO:HA	1.85	0.59
1:GS:72:ASN:O	1:GS:72:ASN:ND2	2.28	0.59
1:GV:125:ASP:O	1:GX:75:ASN:ND2	2.36	0.59
1:HA:95:ILE:HD11	1:HB:72:ASN:O	2.03	0.59
1:AN:101:THR:HA	1:AN:108:PRO:HA	1.85	0.59
1:AS:140:TRP:HA	1:AT:22:TYR:CD2	2.38	0.59
1:AV:8:TYR:HE1	1:AW:55:GLU:OE1	1.86	0.59
1:BL:51:LYS:HE2	1:BN:158:CYS:HB2	1.84	0.59
1:BM:153:VAL:HG13	1:BM:164:ILE:HD13	1.84	0.59
1:BZ:125:ASP:O	1:CB:75:ASN:ND2	2.36	0.59
1:CX:55:GLU:OE1	1:CY:8:TYR:HE1	1.86	0.59
1:CZ:95:ILE:HD11	1:DA:72:ASN:O	2.03	0.59
1:DU:75:ASN:HD22	1:DU:78:PHE:HE2	1.50	0.59
1:EL:157:LEU:HG	1:EL:164:ILE:HD11	1.85	0.59
1:ET:131:ASP:OD1	1:ET:134:ARG:NH1	2.32	0.59
1:FK:95:ILE:HD11	1:FL:72:ASN:O	2.03	0.59
1:GF:95:ILE:HD11	1:GG:72:ASN:O	2.03	0.59
1:GL:101:THR:HA	1:GL:108:PRO:HA	1.84	0.59
1:GZ:101:THR:HA	1:GZ:108:PRO:HA	1.85	0.59
1:HH:8:TYR:HE1	1:HI:55:GLU:OE1	1.86	0.59
1:HQ:125:ASP:O	1:HS:75:ASN:ND2	2.36	0.59
1:AG:72:ASN:O	1:AG:72:ASN:ND2	2.28	0.59
1:AM:55:GLU:OE1	1:AN:8:TYR:HE1	1.86	0.59
1:CJ:111:VAL:HG21	1:EI:107:LEU:HD12	1.83	0.59
1:CK:85:GLY:HA2	1:CK:125:ASP:HB2	1.84	0.59
1:CZ:75:ASN:HB2	1:CZ:78:PHE:HD2	1.68	0.59
1:DB:153:VAL:HG13	1:DB:164:ILE:HD13	1.83	0.59
1:DG:8:TYR:HE1	1:DH:55:GLU:OE1	1.86	0.59
1:DY:140:TRP:HA	1:DZ:22:TYR:CD2	2.38	0.59
1:EB:33:MET:CE	1:EB:45:MET:HB2	2.33	0.59
1:EO:101:THR:HA	1:EO:108:PRO:HA	1.85	0.59
1:ET:100:SER:HB2	1:EU:2:TYR:HA	1.84	0.59
1:GW:157:LEU:HG	1:GW:164:ILE:HD11	1.85	0.59
1:HD:153:VAL:HG13	1:HD:164:ILE:HD13	1.84	0.59
1:HH:33:MET:CE	1:HH:45:MET:HB2	2.33	0.59
1:HT:55:GLU:OE1	1:HU:8:TYR:HE1	1.86	0.59
1:AU:140:TRP:NE1	1:HG:55:GLU:OE2	2.35	0.58
1:BQ:33:MET:CE	1:BQ:45:MET:HB2	2.33	0.58
1:CI:100:SER:HB2	1:CJ:2:TYR:HA	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ER:51:LYS:HE2	1:ET:158:CYS:HB2	1.84	0.58
1:ES:153:VAL:HG13	1:ES:164:ILE:HD13	1.85	0.58
1:FC:112:ASP:O	1:FD:76:GLN:NE2	2.27	0.58
1:FY:68:TYR:HD1	1:FY:73:VAL:HG21	1.68	0.58
1:GI:153:VAL:HG13	1:GI:164:ILE:HD13	1.84	0.58
1:GJ:100:SER:HB2	1:GK:2:TYR:HA	1.84	0.58
1:GT:68:TYR:HD1	1:GT:73:VAL:HG21	1.68	0.58
1:HE:100:SER:HB2	1:HF:2:TYR:HA	1.84	0.58
1:AG:68:TYR:CE1	1:AH:114:PRO:HD3	2.39	0.58
1:AV:33:MET:CE	1:AV:45:MET:HB2	2.33	0.58
1:BK:153:VAL:HG13	1:BK:164:ILE:HD13	1.84	0.58
1:CH:153:VAL:HG13	1:CH:164:ILE:HD13	1.84	0.58
1:CJ:97:ARG:NH1	1:CJ:112:ASP:OD2	2.33	0.58
1:CU:125:ASP:O	1:CW:75:ASN:ND2	2.36	0.58
1:DB:51:LYS:HE2	1:DD:158:CYS:HB2	1.84	0.58
1:FF:107:LEU:HD23	1:FM:111:VAL:HG21	1.85	0.58
1:FF:125:ASP:O	1:FH:75:ASN:ND2	2.36	0.58
1:FK:75:ASN:HD22	1:FK:78:PHE:HE2	1.50	0.58
1:HO:68:TYR:HD1	1:HO:73:VAL:HG21	1.68	0.58
1:AA:33:MET:CE	1:AA:45:MET:HB2	2.33	0.58
1:AJ:107:LEU:HD23	1:AQ:111:VAL:HG21	1.85	0.58
1:BJ:75:ASN:HB2	1:BJ:78:PHE:HD2	1.68	0.58
1:BS:68:TYR:CE1	1:BT:114:PRO:HD3	2.38	0.58
1:CC:55:GLU:OE1	1:CD:8:TYR:HE1	1.86	0.58
1:DD:100:SER:HB2	1:DE:2:TYR:HA	1.84	0.58
1:DD:140:TRP:HA	1:DE:22:TYR:CD2	2.37	0.58
1:DF:144:GLN:HA	1:EV:23:GLN:HB2	1.86	0.58
1:DP:107:LEU:HD23	1:DW:111:VAL:HG21	1.85	0.58
1:DQ:114:PRO:HG2	1:DR:67:VAL:HG12	1.85	0.58
1:EJ:142:ILE:HG23	1:EK:142:ILE:HD13	1.85	0.58
1:ET:99:GLN:HB2	1:ET:110:ILE:HG12	1.84	0.58
1:EY:81:SER:OG	1:FL:75:ASN:ND2	2.36	0.58
1:FC:68:TYR:CE1	1:FD:114:PRO:HD3	2.39	0.58
1:FK:126:PHE:O	1:FK:129:VAL:HG22	2.04	0.58
1:FO:140:TRP:HA	1:FP:22:TYR:CD2	2.38	0.58
1:FR:33:MET:CE	1:FR:45:MET:HB2	2.33	0.58
1:GD:55:GLU:OE1	1:GE:8:TYR:HE1	1.86	0.58
1:GJ:140:TRP:HA	1:GK:22:TYR:CD2	2.38	0.58
1:HA:126:PHE:O	1:HA:129:VAL:HG22	2.04	0.58
1:HR:114:PRO:HG2	1:HS:67:VAL:HG12	1.85	0.58
1:HY:153:VAL:HG13	1:HY:164:ILE:HD13	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AZ:72:ASN:O	1:AZ:72:ASN:ND2	2.30	0.58
1:CA:157:LEU:HG	1:CA:164:ILE:HD11	1.85	0.58
1:CG:140:TRP:NE1	1:CH:55:GLU:OE2	2.37	0.58
1:CT:142:ILE:HG23	1:CU:142:ILE:HD13	1.85	0.58
1:DB:140:TRP:NE1	1:DC:55:GLU:OE2	2.37	0.58
1:DF:78:PHE:HB3	1:EV:112:ASP:OD1	2.04	0.58
1:DG:33:MET:CE	1:DG:45:MET:HB2	2.33	0.58
1:DU:75:ASN:HB2	1:DU:78:PHE:HD2	1.68	0.58
1:DV:153:VAL:HG13	1:DV:164:ILE:HD13	1.84	0.58
1:EA:101:THR:HA	1:EA:108:PRO:HA	1.84	0.58
1:EK:125:ASP:O	1:EM:75:ASN:ND2	2.36	0.58
1:EY:68:TYR:CE1	1:EZ:114:PRO:HD3	2.38	0.58
1:FC:72:ASN:O	1:FC:72:ASN:ND2	2.28	0.58
1:GG:153:VAL:HG13	1:GG:164:ILE:HD13	1.84	0.58
1:HC:140:TRP:NE1	1:HD:55:GLU:OE2	2.37	0.58
1:HE:140:TRP:HA	1:HF:22:TYR:CD2	2.38	0.58
1:HR:72:ASN:O	1:HR:72:ASN:ND2	2.29	0.58
1:AC:68:TYR:CE1	1:AD:114:PRO:HD3	2.38	0.58
1:AJ:125:ASP:O	1:AL:75:ASN:ND2	2.36	0.58
1:BP:55:GLU:OE1	1:GL:8:TYR:HE1	1.86	0.58
1:BY:142:ILE:HG23	1:BZ:142:ILE:HD13	1.85	0.58
1:BZ:107:LEU:HD23	1:CG:111:VAL:HG21	1.85	0.58
1:CL:8:TYR:HE1	1:CM:55:GLU:OE1	1.86	0.58
1:CL:116:TRP:CZ3	1:CM:67:VAL:HG13	2.36	0.58
1:CN:68:TYR:CE1	1:CO:114:PRO:HD3	2.38	0.58
1:FM:140:TRP:NE1	1:FN:55:GLU:OE2	2.37	0.58
1:FP:156:LYS:HB3	1:FP:161:VAL:HB	1.83	0.58
1:GS:68:TYR:CE1	1:GT:114:PRO:HD3	2.39	0.58
1:HZ:140:TRP:HA	1:IA:22:TYR:CD2	2.38	0.58
1:BB:68:TYR:CE1	1:BC:114:PRO:HD3	2.39	0.58
1:BN:100:SER:HB2	1:BO:2:TYR:HA	1.84	0.58
1:CA:114:PRO:HG2	1:CB:67:VAL:HG12	1.85	0.58
1:CE:75:ASN:HD22	1:CE:78:PHE:HE2	1.51	0.58
1:CE:126:PHE:O	1:CE:129:VAL:HG22	2.04	0.58
1:DI:68:TYR:CE1	1:DJ:114:PRO:HD3	2.38	0.58
1:DN:104:ASN:HA	1:HF:103:VAL:HB	1.86	0.58
1:DN:110:ILE:HD11	1:HE:127:THR:HG21	1.85	0.58
1:ER:140:TRP:NE1	1:ES:55:GLU:OE2	2.37	0.58
1:EW:8:TYR:HE1	1:EX:55:GLU:OE1	1.86	0.58
1:EW:33:MET:CE	1:EW:45:MET:HB2	2.33	0.58
1:FG:72:ASN:O	1:FG:72:ASN:ND2	2.29	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FT:50:PRO:HG2	1:FT:53:GLN:HB3	1.83	0.58
1:FX:68:TYR:CE1	1:FY:114:PRO:HD3	2.39	0.58
1:HN:68:TYR:CE1	1:HO:114:PRO:HD3	2.39	0.58
1:HV:72:ASN:O	1:HV:72:ASN:ND2	2.32	0.58
1:AK:114:PRO:HG2	1:AL:67:VAL:HG12	1.85	0.58
1:AX:68:TYR:CE1	1:AY:114:PRO:HD3	2.38	0.58
1:BC:68:TYR:HD1	1:BC:73:VAL:HG21	1.68	0.58
1:CN:2:TYR:HB3	1:CO:100:SER:HB2	1.86	0.58
1:DF:85:GLY:HA2	1:DF:125:ASP:HB2	1.84	0.58
1:EE:97:ARG:HA	1:EE:112:ASP:HB3	1.85	0.58
1:FZ:142:ILE:HG23	1:GA:142:ILE:HD13	1.86	0.58
1:GB:157:LEU:HG	1:GB:164:ILE:HD11	1.85	0.58
1:GF:126:PHE:O	1:GF:129:VAL:HG22	2.04	0.58
1:GO:68:TYR:CE1	1:GP:114:PRO:HD3	2.38	0.58
1:HP:4:GLN:HB3	1:HQ:98:THR:HG23	1.86	0.58
1:HV:75:ASN:HB2	1:HV:78:PHE:HD2	1.68	0.58
1:AB:75:ASN:HD22	1:AW:82:SER:C	2.06	0.58
1:AC:2:TYR:HB3	1:AD:100:SER:HB2	1.86	0.58
1:AO:95:ILE:HD11	1:AP:72:ASN:O	2.03	0.58
1:AX:2:TYR:HB3	1:AY:100:SER:HB2	1.86	0.58
1:BJ:126:PHE:O	1:BJ:129:VAL:HG22	2.04	0.58
1:CI:99:GLN:HB2	1:CI:110:ILE:HG12	1.84	0.58
1:CS:68:TYR:HD1	1:CS:73:VAL:HG21	1.68	0.58
1:DA:153:VAL:HG13	1:DA:164:ILE:HD13	1.84	0.58
1:DO:142:ILE:HG23	1:DP:142:ILE:HD13	1.86	0.58
1:DS:55:GLU:OE1	1:DT:8:TYR:HE1	1.86	0.58
1:DY:99:GLN:HB2	1:DY:110:ILE:HG12	1.84	0.58
1:EH:68:TYR:CE1	1:EI:114:PRO:HD3	2.39	0.58
1:EL:72:ASN:O	1:EL:72:ASN:ND2	2.29	0.58
1:EL:114:PRO:HG2	1:EM:67:VAL:HG12	1.85	0.58
1:EP:126:PHE:O	1:EP:129:VAL:HG22	2.03	0.58
1:FO:163:ARG:NH2	1:FO:166:GLY:O	2.31	0.58
1:FU:97:ARG:HA	1:FU:112:ASP:HB3	1.85	0.58
1:GO:2:TYR:HB3	1:GP:100:SER:HB2	1.86	0.58
1:GV:107:LEU:HD23	1:HC:111:VAL:HG21	1.85	0.58
1:HG:85:GLY:HA2	1:HG:125:ASP:HB2	1.84	0.58
1:AK:157:LEU:HG	1:AK:164:ILE:HD11	1.85	0.58
1:BL:140:TRP:NE1	1:BM:55:GLU:OE2	2.37	0.58
1:CU:107:LEU:HD23	1:DB:111:VAL:HG21	1.86	0.58
1:DN:68:TYR:HD1	1:DN:73:VAL:HG21	1.68	0.58
1:FG:114:PRO:HG2	1:FH:67:VAL:HG12	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:125:ASP:O	1:GC:75:ASN:ND2	2.36	0.58
1:CV:72:ASN:O	1:CV:72:ASN:ND2	2.29	0.58
1:CZ:55:GLU:OE1	1:DA:8:TYR:HE1	1.87	0.58
1:CZ:126:PHE:O	1:CZ:129:VAL:HG22	2.04	0.58
1:DI:2:TYR:HB3	1:DJ:100:SER:HB2	1.86	0.58
1:DK:116:TRP:CZ3	1:DL:67:VAL:HG13	2.31	0.58
1:DU:55:GLU:OE1	1:DV:8:TYR:HE1	1.87	0.58
1:DY:100:SER:HB2	1:DZ:2:TYR:HA	1.84	0.58
1:EP:75:ASN:HD22	1:EP:78:PHE:HE2	1.50	0.58
1:EP:110:ILE:O	1:EQ:78:PHE:HD1	1.87	0.58
1:FC:29:LYS:O	1:FC:47:THR:OG1	2.20	0.58
1:FX:136:SER:HG	1:FY:22:TYR:HH	1.50	0.58
1:GJ:163:ARG:NH2	1:GJ:166:GLY:O	2.31	0.58
1:GN:75:ASN:OD1	1:HI:125:ASP:O	2.21	0.58
1:HA:55:GLU:OE1	1:HB:8:TYR:HE1	1.87	0.58
1:HF:97:ARG:NH1	1:HF:112:ASP:OD2	2.33	0.58
1:HJ:68:TYR:CE1	1:HK:114:PRO:HD3	2.38	0.58
1:HU:101:THR:HA	1:HU:108:PRO:HA	1.85	0.58
1:HV:75:ASN:HD22	1:HV:78:PHE:HE2	1.51	0.58
1:HX:96:TRP:NE1	1:HY:128:LEU:O	2.37	0.58
1:HX:140:TRP:NE1	1:HY:55:GLU:OE2	2.37	0.58
1:AC:140:TRP:NE1	1:AD:55:GLU:OE2	2.37	0.57
1:AE:116:TRP:CZ3	1:AF:67:VAL:HG13	2.31	0.57
1:AW:75:ASN:ND2	1:BR:84:LYS:N	2.48	0.57
1:BD:4:GLN:HB3	1:BE:98:THR:HG23	1.86	0.57
1:BN:131:ASP:OD2	1:FD:51:LYS:NZ	2.36	0.57
1:CP:142:ILE:HD13	1:CQ:142:ILE:HG23	1.86	0.57
1:CV:114:PRO:HG2	1:CW:67:VAL:HG12	1.85	0.57
1:CY:101:THR:HA	1:CY:108:PRO:HA	1.85	0.57
1:DO:29:LYS:O	1:DO:47:THR:OG1	2.19	0.57
1:EN:55:GLU:OE1	1:EO:8:TYR:HE1	1.86	0.57
1:EU:156:LYS:HB3	1:EU:161:VAL:HB	1.84	0.57
1:EY:140:TRP:NE1	1:EZ:55:GLU:OE2	2.37	0.57
1:FZ:4:GLN:HB3	1:GA:98:THR:HG23	1.86	0.57
1:GB:114:PRO:HG2	1:GC:67:VAL:HG12	1.85	0.57
1:GF:75:ASN:HD22	1:GF:78:PHE:HE2	1.50	0.57
1:AA:8:TYR:HE1	1:AB:55:GLU:OE1	1.86	0.57
1:AE:2:TYR:CB	1:AF:100:SER:HB2	2.35	0.57
1:BQ:8:TYR:HE1	1:BR:55:GLU:OE1	1.86	0.57
1:CA:72:ASN:O	1:CA:72:ASN:ND2	2.30	0.57
1:CE:110:ILE:O	1:CF:78:PHE:HD1	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CL:34:ASP:HB3	1:DG:162:THR:CB	2.26	0.57
1:CV:157:LEU:HG	1:CV:164:ILE:HD11	1.85	0.57
1:DP:125:ASP:O	1:DR:75:ASN:ND2	2.36	0.57
1:ED:68:TYR:CE1	1:EE:114:PRO:HD3	2.38	0.57
1:EF:142:ILE:HD13	1:EG:142:ILE:HG23	1.86	0.57
1:EP:55:GLU:OE1	1:EQ:8:TYR:HE1	1.87	0.57
1:FA:74:GLN:OE1	1:GG:63:LYS:NZ	2.37	0.57
1:FK:55:GLU:OE1	1:FL:8:TYR:HE1	1.87	0.57
1:FV:2:TYR:CB	1:FW:100:SER:HB2	2.34	0.57
1:GF:55:GLU:OE1	1:GG:8:TYR:HE1	1.87	0.57
1:GH:140:TRP:NE1	1:GI:55:GLU:OE2	2.37	0.57
1:GM:8:TYR:HE1	1:GN:55:GLU:OE1	1.86	0.57
1:GO:26:LEU:HD13	1:GP:144:GLN:NE2	2.19	0.57
1:HJ:26:LEU:HD13	1:HK:144:GLN:NE2	2.20	0.57
1:HV:110:ILE:O	1:HW:78:PHE:HD1	1.87	0.57
1:AH:68:TYR:HD1	1:AH:73:VAL:HG21	1.68	0.57
1:AI:4:GLN:HB3	1:AJ:98:THR:HG23	1.86	0.57
1:AQ:140:TRP:NE1	1:AR:55:GLU:OE2	2.37	0.57
1:AS:51:LYS:HE2	1:FZ:86:THR:HG21	1.84	0.57
1:BP:102:ASP:HA	1:GK:105:THR:HG22	1.86	0.57
1:BT:97:ARG:HA	1:BT:112:ASP:HB3	1.85	0.57
1:BX:68:TYR:HD1	1:BX:73:VAL:HG21	1.68	0.57
1:BY:116:TRP:CZ3	1:BZ:67:VAL:HG13	2.34	0.57
1:CR:68:TYR:CE1	1:CS:114:PRO:HD3	2.39	0.57
1:CR:112:ASP:O	1:CS:76:GLN:NE2	2.27	0.57
1:DB:96:TRP:NE1	1:DC:128:LEU:O	2.37	0.57
1:DK:142:ILE:HD13	1:DL:142:ILE:HG23	1.86	0.57
1:DM:68:TYR:CE1	1:DN:114:PRO:HD3	2.39	0.57
1:EB:8:TYR:HE1	1:EC:55:GLU:OE1	1.86	0.57
1:ER:96:TRP:NE1	1:ES:128:LEU:O	2.37	0.57
1:ES:81:SER:HG	1:ES:126:PHE:HE1	1.52	0.57
1:FA:142:ILE:HD13	1:FB:142:ILE:HG23	1.87	0.57
1:FK:75:ASN:HB2	1:FK:78:PHE:HD2	1.68	0.57
1:FQ:129:VAL:CG2	1:FQ:134:ARG:HH21	2.18	0.57
1:FT:2:TYR:HB3	1:FU:100:SER:HB2	1.86	0.57
1:GA:51:LYS:NZ	1:GI:131:ASP:OD1	2.38	0.57
1:GP:97:ARG:HA	1:GP:112:ASP:HB3	1.85	0.57
1:GU:142:ILE:HG23	1:GV:142:ILE:HD13	1.86	0.57
1:HA:75:ASN:HD22	1:HA:78:PHE:HE2	1.50	0.57
1:HA:153:VAL:HG13	1:HA:164:ILE:HD13	1.87	0.57
1:HJ:140:TRP:NE1	1:HK:55:GLU:OE2	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HX:140:TRP:HA	1:HY:22:TYR:CD2	2.40	0.57
1:AO:55:GLU:OE1	1:AP:8:TYR:HE1	1.87	0.57
1:AO:126:PHE:O	1:AO:129:VAL:HG22	2.04	0.57
1:AU:55:GLU:OE1	1:HG:8:TYR:HE1	1.88	0.57
1:BS:2:TYR:HB3	1:BT:100:SER:HB2	1.86	0.57
1:BS:140:TRP:NE1	1:BT:55:GLU:OE2	2.37	0.57
1:CN:140:TRP:NE1	1:CO:55:GLU:OE2	2.37	0.57
1:DU:110:ILE:O	1:DV:78:PHE:HD1	1.87	0.57
1:EP:95:ILE:HD11	1:EQ:72:ASN:O	2.03	0.57
1:FJ:101:THR:HA	1:FJ:108:PRO:HA	1.85	0.57
1:FK:110:ILE:O	1:FL:78:PHE:HD1	1.87	0.57
1:FR:116:TRP:CZ3	1:FS:67:VAL:HG13	2.36	0.57
1:GN:87:LYS:HE3	1:GN:120:THR:HG21	1.87	0.57
1:HA:75:ASN:HB2	1:HA:78:PHE:HD2	1.68	0.57
1:HL:2:TYR:CB	1:HM:100:SER:HB2	2.35	0.57
1:AD:97:ARG:HA	1:AD:112:ASP:HB3	1.85	0.57
1:AU:140:TRP:CE2	1:HG:55:GLU:OE2	2.57	0.57
1:BD:116:TRP:CZ3	1:BE:67:VAL:HG13	2.34	0.57
1:BD:142:ILE:HG23	1:BE:142:ILE:HD13	1.86	0.57
1:BE:51:LYS:NZ	1:BM:131:ASP:OD1	2.38	0.57
1:BJ:95:ILE:HD11	1:BK:72:ASN:O	2.03	0.57
1:CD:101:THR:HA	1:CD:108:PRO:HA	1.85	0.57
1:CG:96:TRP:NE1	1:CH:128:LEU:O	2.37	0.57
1:CM:74:GLN:NE2	1:DH:126:PHE:O	2.37	0.57
1:DU:153:VAL:HG13	1:DU:164:ILE:HD13	1.87	0.57
1:ED:26:LEU:HD13	1:EE:144:GLN:NE2	2.20	0.57
1:ED:140:TRP:NE1	1:EE:55:GLU:OE2	2.37	0.57
1:FC:116:TRP:CZ3	1:FD:67:VAL:HG13	2.40	0.57
1:FM:140:TRP:HA	1:FN:22:TYR:CD2	2.40	0.57
1:FT:68:TYR:CE1	1:FU:114:PRO:HD3	2.38	0.57
1:GA:130:ASP:HB3	1:GA:132:SER:H	1.70	0.57
1:GQ:2:TYR:CB	1:GR:100:SER:HB2	2.35	0.57
1:HN:116:TRP:CZ3	1:HO:67:VAL:HG13	2.40	0.57
1:AG:142:ILE:HG23	1:AH:142:ILE:HD13	1.87	0.57
1:AI:142:ILE:HG23	1:AJ:142:ILE:HD13	1.85	0.57
1:BL:96:TRP:NE1	1:BM:128:LEU:O	2.37	0.57
1:BU:142:ILE:HD13	1:BV:142:ILE:HG23	1.86	0.57
1:CG:140:TRP:HA	1:CH:22:TYR:CD2	2.40	0.57
1:DU:72:ASN:O	1:DU:72:ASN:ND2	2.32	0.57
1:EI:68:TYR:HD1	1:EI:73:VAL:HG21	1.68	0.57
1:EK:107:LEU:HD23	1:ER:111:VAL:HG21	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FE:4:GLN:HB3	1:FF:98:THR:HG23	1.86	0.57
1:FE:142:ILE:HG23	1:FF:142:ILE:HD13	1.86	0.57
1:GL:129:VAL:CG2	1:GL:134:ARG:HH21	2.18	0.57
1:GM:33:MET:CE	1:GM:45:MET:HB2	2.33	0.57
1:GO:140:TRP:NE1	1:GP:55:GLU:OE2	2.37	0.57
1:HK:97:ARG:HA	1:HK:112:ASP:HB3	1.85	0.57
1:IB:129:VAL:CG2	1:IB:134:ARG:HH21	2.18	0.57
1:AC:26:LEU:HD13	1:AD:144:GLN:NE2	2.20	0.57
1:AY:97:ARG:HA	1:AY:112:ASP:HB3	1.85	0.57
1:BJ:72:ASN:O	1:BJ:72:ASN:ND2	2.32	0.57
1:CC:140:TRP:HA	1:CD:22:TYR:CD2	2.40	0.57
1:DM:142:ILE:HD13	1:DN:142:ILE:HG23	1.87	0.57
1:DS:140:TRP:HA	1:DT:22:TYR:CD2	2.40	0.57
1:EU:126:PHE:O	1:EU:129:VAL:HG22	2.05	0.57
1:EY:26:LEU:HD13	1:EZ:144:GLN:NE2	2.19	0.57
1:FC:142:ILE:HG23	1:FD:142:ILE:HD13	1.87	0.57
1:FG:157:LEU:HG	1:FG:164:ILE:HD11	1.85	0.57
1:FT:140:TRP:NE1	1:FU:55:GLU:OE2	2.37	0.57
1:GH:96:TRP:NE1	1:GI:128:LEU:O	2.37	0.57
1:GH:140:TRP:HA	1:GI:22:TYR:CD2	2.40	0.57
1:GS:116:TRP:CZ3	1:GT:67:VAL:HG13	2.40	0.57
1:GS:142:ILE:HG23	1:GT:142:ILE:HD13	1.87	0.57
1:AG:116:TRP:CZ3	1:AH:67:VAL:HG13	2.40	0.57
1:AM:140:TRP:HA	1:AN:22:TYR:CD2	2.40	0.57
1:AN:106:GLY:HA3	1:DG:2:TYR:CD2	2.39	0.57
1:AQ:140:TRP:HA	1:AR:22:TYR:CD2	2.40	0.57
1:AV:110:ILE:CD1	1:BR:127:THR:HG21	2.34	0.57
1:BE:130:ASP:HB3	1:BE:132:SER:H	1.70	0.57
1:BJ:55:GLU:OE1	1:BK:8:TYR:HE1	1.87	0.57
1:CC:8:TYR:HE1	1:CD:55:GLU:OE1	1.88	0.57
1:CR:142:ILE:HG23	1:CS:142:ILE:HD13	1.87	0.57
1:DF:129:VAL:CG2	1:DF:134:ARG:HH21	2.18	0.57
1:DI:26:LEU:HD13	1:DJ:144:GLN:NE2	2.20	0.57
1:DO:4:GLN:HB3	1:DP:98:THR:HG23	1.86	0.57
1:EA:129:VAL:CG2	1:EA:134:ARG:HH21	2.18	0.57
1:GF:75:ASN:HB2	1:GF:78:PHE:HD2	1.68	0.57
1:GM:106:GLY:HA3	1:HI:1:SER:H3	1.69	0.57
1:GV:130:ASP:HB3	1:GV:132:SER:H	1.70	0.57
1:GY:140:TRP:HA	1:GZ:22:TYR:CD2	2.40	0.57
1:HF:126:PHE:O	1:HF:129:VAL:HG22	2.05	0.57
1:HT:140:TRP:HA	1:HU:22:TYR:CD2	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IA:126:PHE:O	1:IA:129:VAL:HG22	2.05	0.57
1:AA:142:ILE:HD13	1:AB:142:ILE:HG23	1.87	0.57
1:AA:155:SER:OG	1:DG:51:LYS:CE	2.52	0.57
1:AA:155:SER:CB	1:DG:51:LYS:NZ	2.67	0.57
1:AU:126:PHE:O	1:AU:129:VAL:HG22	2.05	0.57
1:AU:129:VAL:CG2	1:AU:134:ARG:HH21	2.18	0.57
1:BH:8:TYR:HE1	1:BI:55:GLU:OE1	1.88	0.57
1:BO:126:PHE:O	1:BO:129:VAL:HG22	2.05	0.57
1:EC:84:LYS:N	1:HI:75:ASN:HD21	1.90	0.57
1:ER:140:TRP:HA	1:ES:22:TYR:CD2	2.40	0.57
1:FC:142:ILE:HD13	1:FD:142:ILE:HG23	1.87	0.57
1:HQ:130:ASP:HB3	1:HQ:132:SER:H	1.70	0.57
1:HT:8:TYR:HE1	1:HU:55:GLU:OE1	1.88	0.57
1:AG:142:ILE:HD13	1:AH:142:ILE:HG23	1.87	0.57
1:AI:86:THR:OG1	1:GJ:51:LYS:HE3	2.04	0.57
1:BF:114:PRO:HG2	1:BG:67:VAL:HG12	1.85	0.57
1:BJ:110:ILE:O	1:BK:78:PHE:HD1	1.87	0.57
1:BP:129:VAL:CG2	1:BP:134:ARG:HH21	2.18	0.57
1:BQ:142:ILE:HD13	1:BR:142:ILE:HG23	1.87	0.57
1:CR:116:TRP:CZ3	1:CS:67:VAL:HG13	2.40	0.57
1:DP:130:ASP:HB3	1:DP:132:SER:H	1.70	0.57
1:DT:101:THR:HA	1:DT:108:PRO:HA	1.85	0.57
1:DW:96:TRP:NE1	1:DX:128:LEU:O	2.37	0.57
1:EN:140:TRP:HA	1:EO:22:TYR:HD2	1.70	0.57
1:FA:2:TYR:CB	1:FB:100:SER:HB2	2.34	0.57
1:FR:8:TYR:HE1	1:FS:55:GLU:OE1	1.86	0.57
1:GF:72:ASN:O	1:GG:95:ILE:HD11	2.05	0.57
1:GM:107:LEU:HD21	1:HI:2:TYR:HB3	1.87	0.57
1:GW:114:PRO:HG2	1:GX:67:VAL:HG12	1.85	0.57
1:HC:140:TRP:HA	1:HD:22:TYR:CD2	2.40	0.57
1:HJ:81:SER:OG	1:HW:75:ASN:ND2	2.36	0.57
1:AS:33:MET:SD	1:AS:45:MET:HB2	2.45	0.56
1:AV:142:ILE:HD13	1:AW:142:ILE:HG23	1.87	0.56
1:AZ:2:TYR:CB	1:BA:100:SER:HB2	2.35	0.56
1:BN:47:THR:HG21	1:FF:161:VAL:HG22	1.86	0.56
1:BR:87:LYS:HE3	1:BR:120:THR:HG21	1.87	0.56
1:BW:68:TYR:CE1	1:BX:114:PRO:HD3	2.39	0.56
1:CK:8:TYR:CE1	1:FQ:55:GLU:OE1	2.57	0.56
1:CP:2:TYR:CB	1:CQ:100:SER:HB2	2.35	0.56
1:DU:22:TYR:CD2	1:DV:140:TRP:HA	2.40	0.56
1:EA:55:GLU:OE2	1:IB:140:TRP:NE1	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:126:PHE:O	1:EA:129:VAL:HG22	2.05	0.56
1:EB:142:ILE:HD13	1:EC:142:ILE:HG23	1.87	0.56
1:EF:116:TRP:CZ3	1:EG:67:VAL:HG13	2.31	0.56
1:EJ:4:GLN:HB3	1:EK:98:THR:HG23	1.86	0.56
1:EN:8:TYR:HE1	1:EO:55:GLU:OE1	1.88	0.56
1:EN:140:TRP:HA	1:EO:22:TYR:CD2	2.40	0.56
1:ET:44:TYR:OH	1:EU:166:GLY:N	2.38	0.56
1:FX:84:LYS:HD3	1:HA:74:GLN:OE1	2.05	0.56
1:GA:107:LEU:HD23	1:GH:111:VAL:HG21	1.86	0.56
1:GF:153:VAL:HG13	1:GF:164:ILE:HD13	1.87	0.56
1:GQ:142:ILE:HD13	1:GR:142:ILE:HG23	1.86	0.56
1:GU:4:GLN:HB3	1:GV:98:THR:HG23	1.86	0.56
1:HG:129:VAL:CG2	1:HG:134:ARG:HH21	2.18	0.56
1:HJ:2:TYR:HB3	1:HK:100:SER:HB2	1.86	0.56
1:HN:142:ILE:HD13	1:HO:142:ILE:HG23	1.87	0.56
1:HQ:107:LEU:HD23	1:HX:111:VAL:HG21	1.85	0.56
1:HV:126:PHE:O	1:HV:129:VAL:HG22	2.03	0.56
1:AM:126:PHE:O	1:AM:129:VAL:HG22	2.06	0.56
1:AX:26:LEU:HD13	1:AY:144:GLN:NE2	2.20	0.56
1:AX:140:TRP:NE1	1:AY:55:GLU:OE2	2.37	0.56
1:CC:140:TRP:HA	1:CD:22:TYR:HD2	1.70	0.56
1:CE:55:GLU:OE1	1:CF:8:TYR:HE1	1.87	0.56
1:CI:44:TYR:OH	1:CJ:166:GLY:N	2.38	0.56
1:CZ:110:ILE:O	1:DA:78:PHE:HD1	1.87	0.56
1:DD:126:PHE:O	1:DD:129:VAL:HG22	2.05	0.56
1:DH:87:LYS:HE3	1:DH:120:THR:HG21	1.87	0.56
1:DM:116:TRP:CZ3	1:DN:67:VAL:HG13	2.40	0.56
1:DP:157:LEU:HG	1:DP:164:ILE:HD11	1.87	0.56
1:EH:33:MET:HE3	1:EH:45:MET:HB2	1.87	0.56
1:EJ:116:TRP:CZ3	1:EK:67:VAL:HG13	2.34	0.56
1:EV:129:VAL:CG2	1:EV:134:ARG:HH21	2.18	0.56
1:FA:72:ASN:O	1:FA:72:ASN:ND2	2.30	0.56
1:FI:140:TRP:HA	1:FJ:22:TYR:HD2	1.70	0.56
1:FM:96:TRP:NE1	1:FN:128:LEU:O	2.37	0.56
1:FV:142:ILE:HD13	1:FW:142:ILE:HG23	1.86	0.56
1:GD:140:TRP:HA	1:GE:22:TYR:CD2	2.40	0.56
1:HA:22:TYR:CD2	1:HB:140:TRP:HA	2.41	0.56
1:HE:44:TYR:OH	1:HF:166:GLY:N	2.38	0.56
1:HP:142:ILE:HG23	1:HQ:142:ILE:HD13	1.85	0.56
1:HV:55:GLU:OE1	1:HW:8:TYR:HE1	1.87	0.56
1:HV:72:ASN:O	1:HW:95:ILE:HD11	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IB:126:PHE:O	1:IB:129:VAL:HG22	2.05	0.56
1:AA:81:SER:OG	1:BH:75:ASN:ND2	2.38	0.56
1:AO:72:ASN:O	1:AP:95:ILE:HD11	2.05	0.56
1:AS:44:TYR:OH	1:AT:166:GLY:N	2.38	0.56
1:AS:131:ASP:OD2	1:FY:51:LYS:NZ	2.34	0.56
1:AW:87:LYS:HE3	1:AW:120:THR:HG21	1.87	0.56
1:BB:142:ILE:HD13	1:BC:142:ILE:HG23	1.87	0.56
1:BE:107:LEU:HD23	1:BL:111:VAL:HG21	1.85	0.56
1:BH:140:TRP:HA	1:BI:22:TYR:CD2	2.40	0.56
1:BJ:153:VAL:HG13	1:BJ:164:ILE:HD13	1.87	0.56
1:BL:140:TRP:HA	1:BM:22:TYR:CD2	2.40	0.56
1:BP:126:PHE:O	1:BP:129:VAL:HG22	2.05	0.56
1:BP:166:GLY:N	1:GL:44:TYR:OH	2.31	0.56
1:BS:26:LEU:HD13	1:BT:144:GLN:NE2	2.19	0.56
1:CU:130:ASP:HB3	1:CU:132:SER:H	1.70	0.56
1:CX:8:TYR:HE1	1:CY:55:GLU:OE1	1.88	0.56
1:CX:140:TRP:HA	1:CY:22:TYR:CD2	2.40	0.56
1:CZ:72:ASN:O	1:DA:95:ILE:HD11	2.05	0.56
1:DB:140:TRP:HA	1:DC:22:TYR:CD2	2.40	0.56
1:DD:163:ARG:NH2	1:DD:166:GLY:O	2.31	0.56
1:DI:140:TRP:NE1	1:DJ:55:GLU:OE2	2.37	0.56
1:DK:2:TYR:CB	1:DL:100:SER:HB2	2.35	0.56
1:DS:140:TRP:HA	1:DT:22:TYR:HD2	1.70	0.56
1:DW:140:TRP:NE1	1:DX:55:GLU:OE2	2.37	0.56
1:EP:140:TRP:HA	1:EQ:22:TYR:CD2	2.41	0.56
1:EX:87:LYS:HE3	1:EX:120:THR:HG21	1.87	0.56
1:EY:2:TYR:HB3	1:EZ:100:SER:HB2	1.86	0.56
1:FF:130:ASP:HB3	1:FF:132:SER:H	1.70	0.56
1:FI:140:TRP:HA	1:FJ:22:TYR:CD2	2.40	0.56
1:FK:22:TYR:CD2	1:FL:140:TRP:HA	2.40	0.56
1:FK:72:ASN:O	1:FL:95:ILE:HD11	2.05	0.56
1:FO:99:GLN:HB3	1:FO:110:ILE:HG23	1.88	0.56
1:FO:126:PHE:O	1:FO:129:VAL:HG22	2.05	0.56
1:FP:126:PHE:O	1:FP:129:VAL:HG22	2.05	0.56
1:FR:97:ARG:NH1	1:FR:112:ASP:OD2	2.39	0.56
1:FS:87:LYS:HE3	1:FS:120:THR:HG21	1.87	0.56
1:FX:2:TYR:HD2	1:HB:106:GLY:HA3	1.70	0.56
1:HA:110:ILE:O	1:HB:78:PHE:HD1	1.87	0.56
1:HC:96:TRP:NE1	1:HD:128:LEU:O	2.37	0.56
1:HE:33:MET:SD	1:HE:45:MET:HB2	2.45	0.56
1:HG:99:GLN:HB2	1:HG:110:ILE:HG12	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HH:142:ILE:HD13	1:HI:142:ILE:HG23	1.87	0.56
1:HZ:33:MET:SD	1:HZ:45:MET:HB2	2.45	0.56
1:HZ:44:TYR:OH	1:IA:166:GLY:N	2.38	0.56
1:AQ:8:TYR:HE1	1:AR:55:GLU:OE1	1.89	0.56
1:AQ:96:TRP:NE1	1:AR:128:LEU:O	2.37	0.56
1:AX:81:SER:OG	1:BK:75:ASN:ND2	2.36	0.56
1:AZ:142:ILE:HD13	1:BA:142:ILE:HG23	1.86	0.56
1:BH:126:PHE:O	1:BH:129:VAL:HG22	2.06	0.56
1:BJ:72:ASN:O	1:BK:95:ILE:HD11	2.05	0.56
1:BN:126:PHE:O	1:BN:129:VAL:HG22	2.05	0.56
1:BW:142:ILE:HG23	1:BX:142:ILE:HD13	1.87	0.56
1:CE:22:TYR:CD2	1:CF:140:TRP:HA	2.40	0.56
1:CM:75:ASN:OD1	1:DH:125:ASP:O	2.24	0.56
1:CN:26:LEU:HD13	1:CO:144:GLN:NE2	2.20	0.56
1:DW:140:TRP:HA	1:DX:22:TYR:CD2	2.40	0.56
1:EP:22:TYR:CD2	1:EQ:140:TRP:HA	2.41	0.56
1:EP:153:VAL:HG13	1:EP:164:ILE:HD13	1.87	0.56
1:EV:126:PHE:O	1:EV:129:VAL:HG22	2.05	0.56
1:EY:2:TYR:CB	1:EZ:100:SER:HB2	2.36	0.56
1:EY:33:MET:HA	1:FG:161:VAL:HG13	1.88	0.56
1:FO:44:TYR:OH	1:FP:166:GLY:N	2.38	0.56
1:GD:153:VAL:HG13	1:GD:164:ILE:HD13	1.88	0.56
1:GI:81:SER:HG	1:GI:126:PHE:HE1	1.54	0.56
1:GS:86:THR:OG1	1:HW:51:LYS:HE3	2.04	0.56
1:HN:112:ASP:O	1:HO:76:GLN:NE2	2.27	0.56
1:AA:163:ARG:CZ	1:DG:32:TYR:HE2	2.19	0.56
1:AI:86:THR:HG21	1:GJ:51:LYS:HE2	1.87	0.56
1:AQ:6:PHE:HE1	1:AQ:136:SER:HB3	1.71	0.56
1:AR:81:SER:HG	1:AR:126:PHE:HE1	1.52	0.56
1:BH:153:VAL:HG13	1:BH:164:ILE:HD13	1.88	0.56
1:BN:44:TYR:OH	1:BO:166:GLY:N	2.38	0.56
1:BS:33:MET:HA	1:CA:161:VAL:HG13	1.88	0.56
1:BY:4:GLN:HB3	1:BZ:98:THR:HG23	1.86	0.56
1:CE:72:ASN:O	1:CF:95:ILE:HD11	2.05	0.56
1:CE:140:TRP:HA	1:CF:22:TYR:CD2	2.41	0.56
1:CP:72:ASN:O	1:CP:72:ASN:ND2	2.30	0.56
1:CT:4:GLN:HB3	1:CU:98:THR:HG23	1.86	0.56
1:CU:157:LEU:HG	1:CU:164:ILE:HD11	1.87	0.56
1:DE:97:ARG:NH1	1:DE:112:ASP:OD2	2.33	0.56
1:DN:131:ASP:OD1	1:DN:134:ARG:NH1	2.39	0.56
1:DU:126:PHE:O	1:DU:129:VAL:HG22	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DU:140:TRP:HA	1:DV:22:TYR:CD2	2.41	0.56
1:DY:33:MET:SD	1:DY:45:MET:HB2	2.45	0.56
1:DY:44:TYR:OH	1:DZ:166:GLY:N	2.38	0.56
1:DY:99:GLN:HB3	1:DY:110:ILE:HG23	1.88	0.56
1:ED:2:TYR:HB3	1:EE:100:SER:HB2	1.86	0.56
1:EH:142:ILE:HG23	1:EI:142:ILE:HD13	1.87	0.56
1:ER:85:GLY:HA2	1:ER:125:ASP:HB2	1.88	0.56
1:FF:157:LEU:HG	1:FF:164:ILE:HD11	1.87	0.56
1:FI:126:PHE:O	1:FI:129:VAL:HG22	2.06	0.56
1:FK:140:TRP:HA	1:FL:22:TYR:CD2	2.41	0.56
1:FK:153:VAL:HG13	1:FK:164:ILE:HD13	1.87	0.56
1:FO:22:TYR:CD2	1:FP:140:TRP:HA	2.41	0.56
1:FQ:126:PHE:O	1:FQ:129:VAL:HG22	2.05	0.56
1:FT:72:ASN:O	1:FT:72:ASN:ND2	2.29	0.56
1:FX:2:TYR:CD2	1:HB:106:GLY:HA3	2.40	0.56
1:FX:116:TRP:CZ3	1:FY:67:VAL:HG13	2.40	0.56
1:GO:33:MET:HA	1:GW:161:VAL:HG13	1.88	0.56
1:HA:72:ASN:O	1:HB:95:ILE:HD11	2.05	0.56
1:HL:140:TRP:NE1	1:HM:55:GLU:OE2	2.39	0.56
1:HZ:75:ASN:HB3	1:HZ:78:PHE:HD2	1.71	0.56
1:AB:101:THR:HA	1:AB:108:PRO:HA	1.88	0.56
1:AS:99:GLN:HB3	1:AS:110:ILE:HG23	1.88	0.56
1:AS:126:PHE:O	1:AS:129:VAL:HG22	2.05	0.56
1:AT:126:PHE:O	1:AT:129:VAL:HG22	2.05	0.56
1:BB:142:ILE:HG23	1:BC:142:ILE:HD13	1.87	0.56
1:BN:22:TYR:CD2	1:BO:140:TRP:HA	2.41	0.56
1:BS:72:ASN:O	1:BS:72:ASN:ND2	2.29	0.56
1:BU:2:TYR:CB	1:BV:100:SER:HB2	2.34	0.56
1:BU:140:TRP:NE1	1:BV:55:GLU:OE2	2.39	0.56
1:BZ:157:LEU:HG	1:BZ:164:ILE:HD11	1.87	0.56
1:CE:8:TYR:HE1	1:CF:55:GLU:OE1	1.89	0.56
1:CE:153:VAL:HG13	1:CE:164:ILE:HD13	1.87	0.56
1:CK:129:VAL:CG2	1:CK:134:ARG:HH21	2.18	0.56
1:CZ:153:VAL:HG13	1:CZ:164:ILE:HD13	1.87	0.56
1:DG:142:ILE:HD13	1:DH:142:ILE:HG23	1.87	0.56
1:DM:142:ILE:HG23	1:DN:142:ILE:HD13	1.87	0.56
1:DO:116:TRP:CZ3	1:DP:67:VAL:HG13	2.34	0.56
1:DY:126:PHE:O	1:DY:129:VAL:HG22	2.05	0.56
1:ET:75:ASN:HB3	1:ET:78:PHE:HD2	1.71	0.56
1:ET:126:PHE:O	1:ET:129:VAL:HG22	2.05	0.56
1:FK:126:PHE:CD2	1:FK:128:LEU:HG	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FX:142:ILE:HD13	1:FY:142:ILE:HG23	1.87	0.56
1:GQ:72:ASN:O	1:GQ:72:ASN:ND2	2.30	0.56
1:GS:142:ILE:HD13	1:GT:142:ILE:HG23	1.87	0.56
1:GY:153:VAL:HG13	1:GY:164:ILE:HD13	1.88	0.56
1:HE:126:PHE:O	1:HE:129:VAL:HG22	2.05	0.56
1:HG:126:PHE:O	1:HG:129:VAL:HG22	2.05	0.56
1:HL:142:ILE:HD13	1:HM:142:ILE:HG23	1.86	0.56
1:BK:75:ASN:HB3	1:BK:78:PHE:CD2	2.41	0.56
1:CC:126:PHE:O	1:CC:129:VAL:HG22	2.06	0.56
1:CK:126:PHE:O	1:CK:129:VAL:HG22	2.05	0.56
1:CM:101:THR:HA	1:CM:108:PRO:HA	1.88	0.56
1:CN:81:SER:OG	1:DA:75:ASN:ND2	2.36	0.56
1:DB:8:TYR:HE1	1:DC:55:GLU:OE1	1.89	0.56
1:DJ:51:LYS:HD3	1:DT:159:SER:HA	1.88	0.56
1:EF:140:TRP:NE1	1:EG:55:GLU:OE2	2.39	0.56
1:FD:131:ASP:OD1	1:FD:134:ARG:NH1	2.39	0.56
1:FM:8:TYR:HE1	1:FN:55:GLU:OE1	1.89	0.56
1:FO:33:MET:SD	1:FO:45:MET:HB2	2.45	0.56
1:FV:140:TRP:NE1	1:FW:55:GLU:OE2	2.39	0.56
1:FZ:29:LYS:O	1:FZ:47:THR:OG1	2.19	0.56
1:GD:8:TYR:HE1	1:GE:55:GLU:OE1	1.88	0.56
1:GJ:33:MET:SD	1:GJ:45:MET:HB2	2.45	0.56
1:GK:126:PHE:O	1:GK:129:VAL:HG22	2.05	0.56
1:GV:157:LEU:HG	1:GV:164:ILE:HD11	1.87	0.56
1:HE:99:GLN:HB3	1:HE:110:ILE:HG23	1.88	0.56
1:HN:142:ILE:HG23	1:HO:142:ILE:HD13	1.87	0.56
1:AI:81:SER:OG	1:GK:75:ASN:ND2	2.35	0.56
1:AS:140:TRP:NE1	1:AT:55:GLU:OE2	2.39	0.56
1:AV:2:TYR:HD2	1:CD:106:GLY:HA3	1.71	0.56
1:BC:131:ASP:OD1	1:BC:134:ARG:NH1	2.39	0.56
1:BX:131:ASP:OD1	1:BX:134:ARG:NH1	2.39	0.56
1:CI:140:TRP:NE1	1:CJ:55:GLU:OE2	2.39	0.56
1:CJ:126:PHE:O	1:CJ:129:VAL:HG22	2.05	0.56
1:CS:131:ASP:OD1	1:CS:134:ARG:NH1	2.39	0.56
1:CV:29:LYS:O	1:CV:47:THR:OG1	2.20	0.56
1:DI:33:MET:HA	1:DQ:161:VAL:HG13	1.88	0.56
1:DM:112:ASP:O	1:DN:76:GLN:NE2	2.27	0.56
1:DS:126:PHE:O	1:DS:129:VAL:HG22	2.06	0.56
1:DS:153:VAL:HG13	1:DS:164:ILE:HD13	1.88	0.56
1:DU:72:ASN:O	1:DV:95:ILE:HD11	2.05	0.56
1:DW:8:TYR:HE1	1:DX:55:GLU:OE1	1.89	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DY:22:TYR:CD2	1:DZ:140:TRP:HA	2.41	0.56
1:DZ:126:PHE:O	1:DZ:129:VAL:HG22	2.05	0.56
1:EH:2:TYR:CD2	1:FL:106:GLY:HA3	2.40	0.56
1:EX:75:ASN:OD1	1:EX:75:ASN:N	2.39	0.56
1:FX:86:THR:HG21	1:HB:51:LYS:HE2	1.88	0.56
1:GD:126:PHE:O	1:GD:129:VAL:HG22	2.06	0.56
1:GF:110:ILE:O	1:GG:78:PHE:HD1	1.87	0.56
1:GH:8:TYR:HE1	1:GI:55:GLU:OE1	1.89	0.56
1:GJ:44:TYR:OH	1:GK:166:GLY:N	2.38	0.56
1:GT:131:ASP:OD1	1:GT:134:ARG:NH1	2.39	0.56
1:GW:99:GLN:HB2	1:GW:110:ILE:HG12	1.88	0.56
1:GY:8:TYR:HE1	1:GZ:55:GLU:OE1	1.88	0.56
1:HC:8:TYR:HE1	1:HD:55:GLU:OE1	1.89	0.56
1:HV:140:TRP:HA	1:HW:22:TYR:CD2	2.41	0.56
1:HW:75:ASN:HB3	1:HW:78:PHE:CD2	2.41	0.56
1:AI:127:THR:HG21	1:GJ:110:ILE:HD11	1.88	0.56
1:AJ:130:ASP:HB3	1:AJ:132:SER:H	1.70	0.56
1:AV:97:ARG:NH1	1:AV:112:ASP:OD2	2.39	0.56
1:BB:116:TRP:CZ3	1:BC:67:VAL:HG13	2.40	0.56
1:BL:85:GLY:HA2	1:BL:125:ASP:HB2	1.88	0.56
1:CF:75:ASN:HB3	1:CF:78:PHE:CD2	2.41	0.56
1:CM:87:LYS:HE3	1:CM:120:THR:HG21	1.87	0.56
1:CN:33:MET:HA	1:CV:161:VAL:HG13	1.88	0.56
1:CX:140:TRP:HA	1:CY:22:TYR:HD2	1.70	0.56
1:CZ:22:TYR:CD2	1:DA:140:TRP:HA	2.40	0.56
1:DA:75:ASN:HB3	1:DA:78:PHE:CD2	2.41	0.56
1:DD:33:MET:SD	1:DD:45:MET:HB2	2.46	0.56
1:DD:44:TYR:OH	1:DE:166:GLY:N	2.38	0.56
1:EF:2:TYR:CB	1:EG:100:SER:HB2	2.35	0.56
1:EP:72:ASN:O	1:EQ:95:ILE:HD11	2.05	0.56
1:ER:138:ILE:O	1:ER:142:ILE:HG13	2.06	0.56
1:FM:138:ILE:O	1:FM:142:ILE:HG13	2.06	0.56
1:FT:26:LEU:HD13	1:FU:144:GLN:NE2	2.20	0.56
1:GA:157:LEU:HG	1:GA:164:ILE:HD11	1.87	0.56
1:GB:99:GLN:HB2	1:GB:110:ILE:HG12	1.88	0.56
1:GH:6:PHE:HE1	1:GH:136:SER:HB3	1.71	0.56
1:GJ:162:THR:HG21	1:GK:40:ASN:OD1	2.06	0.56
1:GW:72:ASN:O	1:GW:72:ASN:ND2	2.29	0.56
1:HA:140:TRP:HA	1:HB:22:TYR:CD2	2.41	0.56
1:HE:162:THR:HG21	1:HF:40:ASN:OD1	2.06	0.56
1:HZ:126:PHE:O	1:HZ:129:VAL:HG22	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:99:GLN:HB2	1:AK:110:ILE:HG12	1.88	0.56
1:AO:8:TYR:HE1	1:AP:55:GLU:OE1	1.89	0.56
1:AP:75:ASN:HB3	1:AP:78:PHE:CD2	2.41	0.56
1:AU:35:ASP:HB2	1:AU:41:THR:O	2.06	0.56
1:BD:29:LYS:O	1:BD:47:THR:OG1	2.19	0.56
1:BF:72:ASN:O	1:BF:72:ASN:ND2	2.29	0.56
1:BR:101:THR:HA	1:BR:108:PRO:HA	1.88	0.56
1:BS:2:TYR:CB	1:BT:100:SER:HB2	2.36	0.56
1:BU:72:ASN:O	1:BU:72:ASN:ND2	2.30	0.56
1:BZ:130:ASP:HB3	1:BZ:132:SER:H	1.70	0.56
1:CC:153:VAL:HG13	1:CC:164:ILE:HD13	1.88	0.56
1:CE:126:PHE:CD2	1:CE:128:LEU:HG	2.41	0.56
1:CG:6:PHE:HE1	1:CG:136:SER:HB3	1.71	0.56
1:CG:138:ILE:O	1:CG:142:ILE:HG13	2.06	0.56
1:CI:22:TYR:CD2	1:CJ:140:TRP:HA	2.41	0.56
1:CI:33:MET:SD	1:CI:45:MET:HB2	2.45	0.56
1:CI:162:THR:HG21	1:CJ:40:ASN:OD1	2.06	0.56
1:CK:99:GLN:HB2	1:CK:110:ILE:HG12	1.88	0.56
1:DU:8:TYR:HE1	1:DV:55:GLU:OE1	1.89	0.56
1:DW:129:VAL:HG23	1:DW:134:ARG:HH22	1.71	0.56
1:ED:2:TYR:CB	1:EE:100:SER:HB2	2.36	0.56
1:EK:51:LYS:NZ	1:ES:131:ASP:OD1	2.38	0.56
1:EK:157:LEU:HG	1:EK:164:ILE:HD11	1.87	0.56
1:FA:140:TRP:NE1	1:FB:55:GLU:OE2	2.39	0.56
1:FI:153:VAL:HG13	1:FI:164:ILE:HD13	1.88	0.56
1:FO:162:THR:HG21	1:FP:40:ASN:OD1	2.06	0.56
1:FU:51:LYS:HD3	1:GE:159:SER:HA	1.88	0.56
1:GF:126:PHE:CD2	1:GF:128:LEU:HG	2.41	0.56
1:GL:35:ASP:HB2	1:GL:41:THR:O	2.07	0.56
1:GY:126:PHE:O	1:GY:129:VAL:HG22	2.06	0.56
1:HE:22:TYR:CD2	1:HF:140:TRP:HA	2.41	0.56
1:HI:87:LYS:HE3	1:HI:120:THR:HG21	1.87	0.56
1:HV:22:TYR:CD2	1:HW:140:TRP:HA	2.40	0.56
1:HZ:140:TRP:NE1	1:IA:55:GLU:OE2	2.39	0.56
1:AC:2:TYR:CB	1:AD:100:SER:HB2	2.36	0.55
1:AH:131:ASP:OD1	1:AH:134:ARG:NH1	2.39	0.55
1:AN:51:LYS:HE2	1:DG:86:THR:HG21	1.89	0.55
1:BH:140:TRP:HA	1:BI:22:TYR:HD2	1.70	0.55
1:BN:140:TRP:NE1	1:BO:55:GLU:OE2	2.39	0.55
1:CE:102:ASP:HB2	1:CE:109:VAL:HG23	1.88	0.55
1:CV:99:GLN:HB2	1:CV:110:ILE:HG12	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CX:153:VAL:HG13	1:CX:164:ILE:HD13	1.88	0.55
1:DB:138:ILE:O	1:DB:142:ILE:HG13	2.06	0.55
1:EA:166:GLY:N	1:IB:44:TYR:OH	2.32	0.55
1:EI:131:ASP:OD1	1:EI:134:ARG:NH1	2.39	0.55
1:EP:8:TYR:HE1	1:EQ:55:GLU:OE1	1.89	0.55
1:ER:6:PHE:HE1	1:ER:136:SER:HB3	1.71	0.55
1:FG:99:GLN:HB2	1:FG:110:ILE:HG12	1.88	0.55
1:FI:8:TYR:HE1	1:FJ:55:GLU:OE1	1.88	0.55
1:FK:8:TYR:HE1	1:FL:55:GLU:OE1	1.89	0.55
1:FZ:72:ASN:O	1:GA:95:ILE:HD11	2.07	0.55
1:GM:106:GLY:HA3	1:HI:1:SER:H2	1.68	0.55
1:HA:8:TYR:HE1	1:HB:55:GLU:OE1	1.89	0.55
1:HB:75:ASN:HB3	1:HB:78:PHE:CD2	2.41	0.55
1:HV:126:PHE:CD2	1:HV:128:LEU:HG	2.41	0.55
1:HX:85:GLY:HA2	1:HX:125:ASP:HB2	1.88	0.55
1:AA:97:ARG:NH1	1:AA:112:ASP:OD2	2.39	0.55
1:AS:51:LYS:HE3	1:FZ:86:THR:OG1	2.06	0.55
1:AU:67:VAL:HG22	1:AU:83:SER:O	2.07	0.55
1:AY:51:LYS:HD3	1:BI:159:SER:HA	1.88	0.55
1:BK:102:ASP:HB2	1:BK:109:VAL:HG23	1.89	0.55
1:BL:6:PHE:HE1	1:BL:136:SER:HB3	1.71	0.55
1:BL:8:TYR:HE1	1:BM:55:GLU:OE1	1.89	0.55
1:BL:129:VAL:HG23	1:BL:134:ARG:HH22	1.72	0.55
1:BZ:50:PRO:HG2	1:BZ:53:GLN:HB3	1.89	0.55
1:CT:72:ASN:O	1:CU:95:ILE:HD11	2.07	0.55
1:DI:81:SER:OG	1:DV:75:ASN:ND2	2.36	0.55
1:DK:140:TRP:NE1	1:DL:55:GLU:OE2	2.39	0.55
1:ED:33:MET:HA	1:EL:161:VAL:HG13	1.88	0.55
1:ET:140:TRP:NE1	1:EU:55:GLU:OE2	2.39	0.55
1:EW:116:TRP:CZ3	1:EX:67:VAL:HG13	2.36	0.55
1:FE:116:TRP:CZ3	1:FF:67:VAL:HG13	2.34	0.55
1:FL:75:ASN:HB3	1:FL:78:PHE:CD2	2.41	0.55
1:FX:142:ILE:HG23	1:FY:142:ILE:HD13	1.87	0.55
1:GF:22:TYR:CD2	1:GG:140:TRP:HA	2.40	0.55
1:GH:85:GLY:HA2	1:GH:125:ASP:HB2	1.88	0.55
1:GH:129:VAL:HG23	1:GH:134:ARG:HH22	1.72	0.55
1:HA:126:PHE:CD2	1:HA:128:LEU:HG	2.41	0.55
1:HC:6:PHE:HE1	1:HC:136:SER:HB3	1.71	0.55
1:HR:29:LYS:O	1:HR:47:THR:OG1	2.20	0.55
1:AB:87:LYS:HE3	1:AB:120:THR:HG21	1.87	0.55
1:AE:142:ILE:HD13	1:AF:142:ILE:HG23	1.86	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:22:TYR:CD2	1:AP:140:TRP:HA	2.41	0.55
1:AU:99:GLN:HB2	1:AU:110:ILE:HG12	1.88	0.55
1:AX:2:TYR:CB	1:AY:100:SER:HB2	2.36	0.55
1:AZ:116:TRP:CZ3	1:BA:67:VAL:HG13	2.31	0.55
1:AZ:140:TRP:NE1	1:BA:55:GLU:OE2	2.39	0.55
1:BN:162:THR:HG21	1:BO:40:ASN:OD1	2.06	0.55
1:CL:142:ILE:HD13	1:CM:142:ILE:HG23	1.87	0.55
1:CN:2:TYR:CB	1:CO:100:SER:HB2	2.36	0.55
1:CU:50:PRO:HG2	1:CU:53:GLN:HB3	1.88	0.55
1:DD:55:GLU:OE1	1:DE:8:TYR:HE1	1.90	0.55
1:DD:162:THR:HG21	1:DE:40:ASN:OD1	2.06	0.55
1:DE:126:PHE:O	1:DE:129:VAL:HG22	2.05	0.55
1:DS:166:GLY:N	1:DT:44:TYR:OH	2.40	0.55
1:DW:156:LYS:HB3	1:DW:161:VAL:HB	1.89	0.55
1:DZ:97:ARG:NH1	1:DZ:112:ASP:OD2	2.33	0.55
1:EE:51:LYS:HD3	1:EO:159:SER:HA	1.88	0.55
1:EH:136:SER:HG	1:EI:22:TYR:HH	1.54	0.55
1:EW:51:LYS:HZ3	1:FR:155:SER:CB	2.13	0.55
1:FS:75:ASN:N	1:FS:75:ASN:OD1	2.39	0.55
1:FY:131:ASP:OD1	1:FY:134:ARG:NH1	2.39	0.55
1:GD:140:TRP:HA	1:GE:22:TYR:HD2	1.70	0.55
1:GD:166:GLY:N	1:GE:44:TYR:OH	2.40	0.55
1:GQ:140:TRP:NE1	1:GR:55:GLU:OE2	2.39	0.55
1:GY:166:GLY:N	1:GZ:44:TYR:OH	2.40	0.55
1:HC:85:GLY:HA2	1:HC:125:ASP:HB2	1.88	0.55
1:HE:140:TRP:NE1	1:HF:55:GLU:OE2	2.39	0.55
1:HG:67:VAL:HG22	1:HG:83:SER:O	2.07	0.55
1:HJ:2:TYR:CB	1:HK:100:SER:HB2	2.36	0.55
1:HQ:50:PRO:HG2	1:HQ:53:GLN:HB3	1.89	0.55
1:HV:8:TYR:HE1	1:HW:55:GLU:OE1	1.89	0.55
1:HX:8:TYR:HE1	1:HY:55:GLU:OE1	1.89	0.55
1:HX:138:ILE:O	1:HX:142:ILE:HG13	2.06	0.55
1:HZ:162:THR:HG21	1:IA:40:ASN:OD1	2.06	0.55
1:IB:99:GLN:HB2	1:IB:110:ILE:HG12	1.88	0.55
1:AC:81:SER:OG	1:AP:75:ASN:ND2	2.36	0.55
1:BB:136:SER:HG	1:BC:22:TYR:HH	1.53	0.55
1:BJ:140:TRP:HA	1:BK:22:TYR:CD2	2.41	0.55
1:BN:33:MET:SD	1:BN:45:MET:HB2	2.45	0.55
1:BO:105:THR:HG22	1:GL:102:ASP:HA	1.88	0.55
1:BP:99:GLN:HB2	1:BP:110:ILE:HG12	1.88	0.55
1:CI:126:PHE:O	1:CI:129:VAL:HG22	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DD:75:ASN:HB3	1:DD:78:PHE:HD2	1.71	0.55
1:DI:2:TYR:CB	1:DJ:100:SER:HB2	2.36	0.55
1:DS:8:TYR:HE1	1:DT:55:GLU:OE1	1.88	0.55
1:DU:126:PHE:CD2	1:DU:128:LEU:HG	2.41	0.55
1:DV:102:ASP:HB2	1:DV:109:VAL:HG23	1.89	0.55
1:DW:6:PHE:HE1	1:DW:136:SER:HB3	1.71	0.55
1:DY:75:ASN:HB3	1:DY:78:PHE:HD2	1.71	0.55
1:DZ:163:ARG:NH1	1:GT:32:TYR:HE2	2.05	0.55
1:EB:81:SER:OG	1:FI:75:ASN:ND2	2.37	0.55
1:EC:84:LYS:N	1:HI:75:ASN:ND2	2.50	0.55
1:EC:87:LYS:HE3	1:EC:120:THR:HG21	1.87	0.55
1:EK:130:ASP:HB3	1:EK:132:SER:H	1.70	0.55
1:EQ:102:ASP:HB2	1:EQ:109:VAL:HG23	1.89	0.55
1:EX:101:THR:HA	1:EX:108:PRO:HA	1.88	0.55
1:FF:50:PRO:HG2	1:FF:53:GLN:HB3	1.89	0.55
1:FM:129:VAL:HG23	1:FM:134:ARG:HH22	1.71	0.55
1:FT:2:TYR:CB	1:FU:100:SER:HB2	2.36	0.55
1:GO:2:TYR:CB	1:GP:100:SER:HB2	2.36	0.55
1:HH:97:ARG:NH1	1:HH:112:ASP:OD2	2.39	0.55
1:HT:153:VAL:HG13	1:HT:164:ILE:HD13	1.88	0.55
1:IB:35:ASP:HB2	1:IB:41:THR:O	2.07	0.55
1:AJ:157:LEU:HG	1:AJ:164:ILE:HD11	1.87	0.55
1:AO:101:THR:HA	1:AO:108:PRO:HA	1.89	0.55
1:AO:153:VAL:HG13	1:AO:164:ILE:HD13	1.87	0.55
1:AS:162:THR:HG21	1:AT:40:ASN:OD1	2.06	0.55
1:BJ:126:PHE:CD2	1:BJ:128:LEU:HG	2.41	0.55
1:BL:156:LYS:HB3	1:BL:161:VAL:HB	1.89	0.55
1:BM:29:LYS:O	1:BM:47:THR:OG1	2.21	0.55
1:BW:112:ASP:O	1:BX:76:GLN:NE2	2.27	0.55
1:CI:99:GLN:HB3	1:CI:110:ILE:HG23	1.88	0.55
1:CR:142:ILE:HD13	1:CS:142:ILE:HG23	1.87	0.55
1:CZ:126:PHE:CD2	1:CZ:128:LEU:HG	2.41	0.55
1:CZ:140:TRP:HA	1:DA:22:TYR:CD2	2.41	0.55
1:DB:129:VAL:HG23	1:DB:134:ARG:HH22	1.72	0.55
1:DB:156:LYS:HB3	1:DB:161:VAL:HB	1.89	0.55
1:DD:22:TYR:CD2	1:DE:140:TRP:HA	2.41	0.55
1:DD:99:GLN:HB3	1:DD:110:ILE:HG23	1.88	0.55
1:DU:101:THR:HA	1:DU:108:PRO:HA	1.89	0.55
1:EJ:29:LYS:O	1:EJ:47:THR:OG1	2.19	0.55
1:EN:126:PHE:O	1:EN:129:VAL:HG22	2.06	0.55
1:EP:126:PHE:CD2	1:EP:128:LEU:HG	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ET:33:MET:SD	1:ET:45:MET:HB2	2.45	0.55
1:ET:99:GLN:HB3	1:ET:110:ILE:HG23	1.88	0.55
1:EW:142:ILE:HD13	1:EX:142:ILE:HG23	1.87	0.55
1:FE:72:ASN:O	1:FF:95:ILE:HD11	2.07	0.55
1:FI:44:TYR:OH	1:FJ:166:GLY:N	2.40	0.55
1:FM:126:PHE:O	1:FM:129:VAL:HG22	2.07	0.55
1:FQ:99:GLN:HB2	1:FQ:110:ILE:HG12	1.88	0.55
1:FT:33:MET:HA	1:GB:161:VAL:HG13	1.88	0.55
1:GH:156:LYS:HB3	1:GH:161:VAL:HB	1.89	0.55
1:GJ:140:TRP:NE1	1:GK:55:GLU:OE2	2.39	0.55
1:GL:126:PHE:O	1:GL:129:VAL:HG22	2.05	0.55
1:GO:81:SER:OG	1:HB:75:ASN:ND2	2.36	0.55
1:HC:126:PHE:O	1:HC:129:VAL:HG22	2.07	0.55
1:HO:131:ASP:OD1	1:HO:134:ARG:NH1	2.39	0.55
1:HP:72:ASN:O	1:HQ:95:ILE:HD11	2.07	0.55
1:HV:102:ASP:HB2	1:HV:109:VAL:HG23	1.88	0.55
1:AC:33:MET:HA	1:AK:161:VAL:HG13	1.88	0.55
1:AE:140:TRP:NE1	1:AF:55:GLU:OE2	2.39	0.55
1:AH:102:ASP:HA	1:BK:105:THR:HG22	1.88	0.55
1:AM:8:TYR:HE1	1:AN:55:GLU:OE1	1.88	0.55
1:AO:110:ILE:O	1:AP:78:PHE:HD1	1.87	0.55
1:AQ:126:PHE:O	1:AQ:129:VAL:HG22	2.07	0.55
1:AQ:156:LYS:HB3	1:AQ:161:VAL:HB	1.89	0.55
1:AX:33:MET:HA	1:BF:161:VAL:HG13	1.88	0.55
1:BH:166:GLY:N	1:BI:44:TYR:OH	2.40	0.55
1:BW:142:ILE:HD13	1:BX:142:ILE:HG23	1.87	0.55
1:CC:44:TYR:OH	1:CD:166:GLY:N	2.40	0.55
1:CG:85:GLY:HA2	1:CG:125:ASP:HB2	1.88	0.55
1:CM:75:ASN:OD1	1:CM:75:ASN:N	2.39	0.55
1:CP:140:TRP:NE1	1:CQ:55:GLU:OE2	2.39	0.55
1:DO:72:ASN:O	1:DP:95:ILE:HD11	2.07	0.55
1:DY:55:GLU:OE1	1:DZ:8:TYR:HE1	1.90	0.55
1:EH:116:TRP:CZ3	1:EI:67:VAL:HG13	2.40	0.55
1:ER:8:TYR:HE1	1:ES:55:GLU:OE1	1.89	0.55
1:ET:22:TYR:CD2	1:EU:140:TRP:HA	2.41	0.55
1:FS:101:THR:HA	1:FS:108:PRO:HA	1.88	0.55
1:GE:153:VAL:HG13	1:GE:164:ILE:HD13	1.89	0.55
1:GG:102:ASP:HB2	1:GG:109:VAL:HG23	1.89	0.55
1:GJ:22:TYR:CD2	1:GK:140:TRP:HA	2.41	0.55
1:GJ:126:PHE:O	1:GJ:129:VAL:HG22	2.05	0.55
1:GM:97:ARG:NH1	1:GM:112:ASP:OD2	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GM:142:ILE:HD13	1:GN:142:ILE:HG23	1.87	0.55
1:HG:35:ASP:HB2	1:HG:41:THR:O	2.06	0.55
1:HJ:33:MET:HA	1:HR:161:VAL:HG13	1.88	0.55
1:HT:126:PHE:O	1:HT:129:VAL:HG22	2.06	0.55
1:HZ:99:GLN:HB3	1:HZ:110:ILE:HG23	1.88	0.55
1:IB:67:VAL:HG22	1:IB:83:SER:O	2.07	0.55
1:AD:51:LYS:HD3	1:AN:159:SER:HA	1.88	0.55
1:AM:166:GLY:N	1:AN:44:TYR:OH	2.40	0.55
1:AO:140:TRP:HA	1:AP:22:TYR:CD2	2.41	0.55
1:AP:53:GLN:NE2	1:AP:97:ARG:HB3	2.22	0.55
1:AZ:74:GLN:OE1	1:CF:63:LYS:NZ	2.38	0.55
1:BJ:101:THR:HA	1:BJ:108:PRO:HA	1.89	0.55
1:BL:138:ILE:O	1:BL:142:ILE:HG13	2.06	0.55
1:BP:35:ASP:HB2	1:BP:41:THR:O	2.06	0.55
1:CL:51:LYS:NZ	1:DH:131:ASP:OD2	2.39	0.55
1:CS:102:ASP:HA	1:DV:105:THR:HG22	1.89	0.55
1:CT:77:THR:OG1	1:DC:82:SER:OG	2.21	0.55
1:CX:126:PHE:O	1:CX:129:VAL:HG22	2.06	0.55
1:DF:126:PHE:O	1:DF:129:VAL:HG22	2.05	0.55
1:ED:81:SER:OG	1:EQ:75:ASN:ND2	2.36	0.55
1:EH:29:LYS:O	1:EH:47:THR:OG1	2.20	0.55
1:EH:142:ILE:HD13	1:EI:142:ILE:HG23	1.87	0.55
1:EQ:75:ASN:HB3	1:EQ:78:PHE:CD2	2.41	0.55
1:EW:97:ARG:NH1	1:EW:112:ASP:OD2	2.39	0.55
1:EW:136:SER:HG	1:EX:22:TYR:HH	1.53	0.55
1:EZ:51:LYS:HD3	1:FJ:159:SER:HA	1.88	0.55
1:FG:29:LYS:O	1:FG:47:THR:OG1	2.20	0.55
1:FL:102:ASP:HB2	1:FL:109:VAL:HG23	1.89	0.55
1:FO:55:GLU:OE1	1:FP:8:TYR:HE1	1.90	0.55
1:FR:142:ILE:HD13	1:FS:142:ILE:HG23	1.87	0.55
1:FS:129:VAL:HG12	1:FS:134:ARG:HH21	1.72	0.55
1:GF:8:TYR:HE1	1:GG:55:GLU:OE1	1.89	0.55
1:GF:53:GLN:NE2	1:GF:97:ARG:HB3	2.22	0.55
1:HE:163:ARG:NH2	1:HE:166:GLY:O	2.31	0.55
1:HT:44:TYR:OH	1:HU:166:GLY:N	2.40	0.55
1:AJ:50:PRO:HG2	1:AJ:53:GLN:HB3	1.89	0.55
1:AP:102:ASP:HB2	1:AP:109:VAL:HG23	1.89	0.55
1:BD:72:ASN:O	1:BE:95:ILE:HD11	2.07	0.55
1:BZ:161:VAL:HG22	1:ET:47:THR:HG21	1.87	0.55
1:CG:8:TYR:HE1	1:CH:55:GLU:OE1	1.89	0.55
1:CG:126:PHE:O	1:CG:129:VAL:HG22	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CK:22:TYR:CD2	1:FQ:140:TRP:HA	2.42	0.55
1:CX:44:TYR:OH	1:CY:166:GLY:N	2.40	0.55
1:DF:35:ASP:HB2	1:DF:41:THR:O	2.07	0.55
1:DH:75:ASN:N	1:DH:75:ASN:OD1	2.39	0.55
1:DW:138:ILE:O	1:DW:142:ILE:HG13	2.06	0.55
1:ED:2:TYR:HD2	1:EP:106:GLY:HA3	1.72	0.55
1:ET:162:THR:HG21	1:EU:40:ASN:OD1	2.06	0.55
1:FI:166:GLY:N	1:FJ:44:TYR:OH	2.40	0.55
1:FL:53:GLN:NE2	1:FL:97:ARG:HB3	2.22	0.55
1:FM:6:PHE:HE1	1:FM:136:SER:HB3	1.71	0.55
1:FO:75:ASN:HB3	1:FO:78:PHE:HD2	1.71	0.55
1:FP:97:ARG:NH1	1:FP:112:ASP:OD2	2.33	0.55
1:FZ:116:TRP:CZ3	1:GA:67:VAL:HG13	2.34	0.55
1:GF:140:TRP:HA	1:GG:22:TYR:CD2	2.41	0.55
1:GH:138:ILE:O	1:GH:142:ILE:HG13	2.06	0.55
1:GL:67:VAL:HG22	1:GL:83:SER:O	2.07	0.55
1:GY:44:TYR:OH	1:GZ:166:GLY:N	2.40	0.55
1:HC:138:ILE:O	1:HC:142:ILE:HG13	2.06	0.55
1:HL:116:TRP:CZ3	1:HM:67:VAL:HG13	2.31	0.55
1:HZ:22:TYR:CD2	1:IA:140:TRP:HA	2.41	0.55
1:AO:126:PHE:CD2	1:AO:128:LEU:HG	2.41	0.55
1:AS:22:TYR:CD2	1:AT:140:TRP:HA	2.41	0.55
1:BA:138:ILE:O	1:BA:142:ILE:HG13	2.07	0.55
1:BE:157:LEU:HG	1:BE:164:ILE:HD11	1.87	0.55
1:BJ:22:TYR:CD2	1:BK:140:TRP:HA	2.41	0.55
1:BL:126:PHE:O	1:BL:129:VAL:HG22	2.07	0.55
1:BU:74:GLN:OE1	1:DA:63:LYS:NZ	2.40	0.55
1:CK:35:ASP:HB2	1:CK:41:THR:O	2.06	0.55
1:CM:129:VAL:HG12	1:CM:134:ARG:HH21	1.72	0.55
1:CZ:8:TYR:HE1	1:DA:55:GLU:OE1	1.89	0.55
1:DA:53:GLN:NE2	1:DA:97:ARG:HB3	2.22	0.55
1:DB:6:PHE:HE1	1:DB:136:SER:HB3	1.71	0.55
1:DD:140:TRP:NE1	1:DE:55:GLU:OE2	2.39	0.55
1:EC:126:PHE:O	1:HI:74:GLN:NE2	2.40	0.55
1:EQ:53:GLN:NE2	1:EQ:97:ARG:HB3	2.22	0.55
1:ER:156:LYS:HB3	1:ER:161:VAL:HB	1.89	0.55
1:ET:55:GLU:OE1	1:EU:8:TYR:HE1	1.90	0.55
1:EV:99:GLN:HB2	1:EV:110:ILE:HG12	1.88	0.55
1:FO:140:TRP:NE1	1:FP:55:GLU:OE2	2.39	0.55
1:GH:126:PHE:O	1:GH:129:VAL:HG22	2.07	0.55
1:GY:140:TRP:HA	1:GZ:22:TYR:HD2	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HC:129:VAL:HG23	1:HC:134:ARG:HH22	1.71	0.55
1:HC:156:LYS:HB3	1:HC:161:VAL:HB	1.89	0.55
1:HJ:2:TYR:HD2	1:HV:106:GLY:HA3	1.72	0.55
1:HY:33:MET:SD	1:HY:45:MET:HB2	2.47	0.55
1:AM:44:TYR:OH	1:AN:166:GLY:N	2.40	0.55
1:AS:55:GLU:OE1	1:AT:8:TYR:HE1	1.90	0.55
1:AX:142:ILE:HG23	1:AY:142:ILE:HD13	1.89	0.55
1:BJ:8:TYR:HE1	1:BK:55:GLU:OE1	1.89	0.55
1:BQ:97:ARG:NH1	1:BQ:112:ASP:OD2	2.39	0.55
1:CY:153:VAL:HG13	1:CY:164:ILE:HD13	1.89	0.55
1:DC:101:THR:HA	1:DC:108:PRO:HA	1.89	0.55
1:DF:67:VAL:HG22	1:DF:83:SER:O	2.07	0.55
1:DV:75:ASN:HB3	1:DV:78:PHE:CD2	2.41	0.55
1:ER:129:VAL:HG23	1:ER:134:ARG:HH22	1.72	0.55
1:FM:156:LYS:HB3	1:FM:161:VAL:HB	1.89	0.55
1:FN:33:MET:SD	1:FN:45:MET:HB2	2.47	0.55
1:GG:53:GLN:NE2	1:GG:97:ARG:HB3	2.22	0.55
1:GL:99:GLN:HB2	1:GL:110:ILE:HG12	1.88	0.55
1:HV:101:THR:HA	1:HV:108:PRO:HA	1.89	0.55
1:HV:153:VAL:HG13	1:HV:164:ILE:HD13	1.87	0.55
1:AM:33:MET:SD	1:AM:45:MET:HB2	2.48	0.54
1:AN:33:MET:SD	1:AN:45:MET:HB2	2.48	0.54
1:AW:129:VAL:HG12	1:AW:134:ARG:HH21	1.72	0.54
1:BH:33:MET:SD	1:BH:45:MET:HB2	2.47	0.54
1:BN:99:GLN:HB3	1:BN:110:ILE:HG23	1.88	0.54
1:CZ:102:ASP:HB2	1:CZ:109:VAL:HG23	1.89	0.54
1:DB:126:PHE:O	1:DB:129:VAL:HG22	2.07	0.54
1:DW:85:GLY:HA2	1:DW:125:ASP:HB2	1.88	0.54
1:EA:23:GLN:HB2	1:IB:144:GLN:HA	1.88	0.54
1:EA:35:ASP:HB2	1:EA:41:THR:O	2.06	0.54
1:EA:67:VAL:HG22	1:EA:83:SER:O	2.07	0.54
1:EC:101:THR:HA	1:EC:108:PRO:HA	1.88	0.54
1:FK:53:GLN:NE2	1:FK:97:ARG:HB3	2.22	0.54
1:FT:81:SER:OG	1:GG:75:ASN:ND2	2.36	0.54
1:GE:33:MET:SD	1:GE:45:MET:HB2	2.47	0.54
1:GG:75:ASN:HB3	1:GG:78:PHE:CD2	2.41	0.54
1:GU:72:ASN:O	1:GV:95:ILE:HD11	2.07	0.54
1:HB:33:MET:SD	1:HB:45:MET:HB2	2.48	0.54
1:HJ:157:LEU:HG	1:HJ:164:ILE:HD11	1.89	0.54
1:HT:140:TRP:HA	1:HU:22:TYR:HD2	1.70	0.54
1:HT:166:GLY:N	1:HU:44:TYR:OH	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:129:VAL:HG12	1:AB:134:ARG:HH21	1.72	0.54
1:AC:142:ILE:HG23	1:AD:142:ILE:HD13	1.89	0.54
1:BI:126:PHE:O	1:BI:129:VAL:HG22	2.07	0.54
1:BQ:82:SER:HB3	1:CX:75:ASN:CB	2.33	0.54
1:BY:72:ASN:O	1:BZ:95:ILE:HD11	2.07	0.54
1:CA:99:GLN:HB2	1:CA:110:ILE:HG12	1.88	0.54
1:CK:4:GLN:OE1	1:FQ:96:TRP:NE1	2.41	0.54
1:CX:166:GLY:N	1:CY:44:TYR:OH	2.40	0.54
1:DH:101:THR:HA	1:DH:108:PRO:HA	1.88	0.54
1:DI:2:TYR:HD2	1:DU:106:GLY:HA3	1.72	0.54
1:DL:138:ILE:O	1:DL:142:ILE:HG13	2.07	0.54
1:DT:126:PHE:O	1:DT:129:VAL:HG22	2.07	0.54
1:DY:140:TRP:NE1	1:DZ:55:GLU:OE2	2.39	0.54
1:EH:112:ASP:O	1:EI:76:GLN:NE2	2.27	0.54
1:EL:67:VAL:HG22	1:EL:83:SER:O	2.08	0.54
1:EL:99:GLN:HB2	1:EL:110:ILE:HG12	1.88	0.54
1:EN:166:GLY:N	1:EO:44:TYR:OH	2.40	0.54
1:EO:126:PHE:O	1:EO:129:VAL:HG22	2.07	0.54
1:EP:53:GLN:NE2	1:EP:97:ARG:HB3	2.22	0.54
1:EV:67:VAL:HG22	1:EV:83:SER:O	2.07	0.54
1:FJ:33:MET:SD	1:FJ:45:MET:HB2	2.48	0.54
1:FK:101:THR:HA	1:FK:108:PRO:HA	1.89	0.54
1:FN:101:THR:HA	1:FN:108:PRO:HA	1.89	0.54
1:FT:157:LEU:HG	1:FT:164:ILE:HD11	1.90	0.54
1:GA:50:PRO:HG2	1:GA:53:GLN:HB3	1.88	0.54
1:GP:51:LYS:HD3	1:GZ:159:SER:HA	1.88	0.54
1:GV:50:PRO:HG2	1:GV:53:GLN:HB3	1.89	0.54
1:HK:51:LYS:HD3	1:HU:159:SER:HA	1.88	0.54
1:HV:53:GLN:NE2	1:HV:97:ARG:HB3	2.22	0.54
1:AK:67:VAL:HG22	1:AK:83:SER:O	2.08	0.54
1:AM:153:VAL:HG13	1:AM:164:ILE:HD13	1.88	0.54
1:AR:101:THR:HA	1:AR:108:PRO:HA	1.89	0.54
1:BF:99:GLN:HB2	1:BF:110:ILE:HG12	1.88	0.54
1:BI:153:VAL:HG13	1:BI:164:ILE:HD13	1.89	0.54
1:BJ:53:GLN:NE2	1:BJ:97:ARG:HB3	2.22	0.54
1:BR:75:ASN:N	1:BR:75:ASN:OD1	2.39	0.54
1:BS:153:VAL:HG13	1:BS:164:ILE:HD13	1.90	0.54
1:CA:67:VAL:HG22	1:CA:83:SER:O	2.08	0.54
1:CC:33:MET:SD	1:CC:45:MET:HB2	2.47	0.54
1:CE:53:GLN:NE2	1:CE:97:ARG:HB3	2.22	0.54
1:CG:156:LYS:HB3	1:CG:161:VAL:HB	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CH:33:MET:SD	1:CH:45:MET:HB2	2.47	0.54
1:CK:55:GLU:OE1	1:FQ:8:TYR:HE1	1.90	0.54
1:CN:2:TYR:HD2	1:CZ:106:GLY:HA3	1.72	0.54
1:CO:51:LYS:HD3	1:CY:159:SER:HA	1.88	0.54
1:CP:116:TRP:CZ3	1:CQ:67:VAL:HG13	2.31	0.54
1:CX:33:MET:SD	1:CX:45:MET:HB2	2.48	0.54
1:DB:85:GLY:HA2	1:DB:125:ASP:HB2	1.88	0.54
1:DH:129:VAL:HG12	1:DH:134:ARG:HH21	1.72	0.54
1:DI:142:ILE:HG23	1:DJ:142:ILE:HD13	1.89	0.54
1:DQ:99:GLN:HB2	1:DQ:110:ILE:HG12	1.88	0.54
1:DW:126:PHE:O	1:DW:129:VAL:HG22	2.07	0.54
1:EA:99:GLN:HB2	1:EA:110:ILE:HG12	1.88	0.54
1:EW:2:TYR:CD2	1:GE:106:GLY:HA3	2.42	0.54
1:EY:157:LEU:HG	1:EY:164:ILE:HD11	1.90	0.54
1:FJ:126:PHE:O	1:FJ:129:VAL:HG22	2.07	0.54
1:FK:102:ASP:HB2	1:FK:109:VAL:HG23	1.88	0.54
1:FV:116:TRP:CZ3	1:FW:67:VAL:HG13	2.31	0.54
1:GE:126:PHE:O	1:GE:129:VAL:HG22	2.07	0.54
1:GF:102:ASP:HB2	1:GF:109:VAL:HG23	1.89	0.54
1:GI:33:MET:SD	1:GI:45:MET:HB2	2.47	0.54
1:HA:53:GLN:NE2	1:HA:97:ARG:HB3	2.22	0.54
1:HA:101:THR:HA	1:HA:108:PRO:HA	1.89	0.54
1:HP:53:GLN:NE2	1:HP:97:ARG:HB3	2.23	0.54
1:HQ:157:LEU:HG	1:HQ:164:ILE:HD11	1.87	0.54
1:HW:53:GLN:NE2	1:HW:97:ARG:HB3	2.22	0.54
1:HX:6:PHE:HE1	1:HX:136:SER:HB3	1.71	0.54
1:AQ:85:GLY:HA2	1:AQ:125:ASP:HB2	1.88	0.54
1:AU:17:LEU:HD12	1:HG:19:ILE:HD12	1.89	0.54
1:AU:100:SER:HB2	1:HG:2:TYR:HA	1.88	0.54
1:BE:50:PRO:HG2	1:BE:53:GLN:HB3	1.88	0.54
1:BK:53:GLN:NE2	1:BK:97:ARG:HB3	2.22	0.54
1:BR:129:VAL:HG12	1:BR:134:ARG:HH21	1.72	0.54
1:BS:142:ILE:HG23	1:BT:142:ILE:HD13	1.89	0.54
1:BT:51:LYS:HD3	1:CD:159:SER:HA	1.88	0.54
1:BV:138:ILE:O	1:BV:142:ILE:HG13	2.07	0.54
1:CC:166:GLY:N	1:CD:44:TYR:OH	2.40	0.54
1:CN:72:ASN:O	1:CN:72:ASN:ND2	2.29	0.54
1:CN:157:LEU:HG	1:CN:164:ILE:HD11	1.89	0.54
1:CT:29:LYS:O	1:CT:47:THR:OG1	2.19	0.54
1:DI:112:ASP:O	1:DJ:76:GLN:NE2	2.30	0.54
1:DS:33:MET:SD	1:DS:45:MET:HB2	2.48	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DT:33:MET:SD	1:DT:45:MET:HB2	2.47	0.54
1:EN:153:VAL:HG13	1:EN:164:ILE:HD13	1.88	0.54
1:FA:116:TRP:CZ3	1:FB:67:VAL:HG13	2.31	0.54
1:FQ:67:VAL:HG22	1:FQ:83:SER:O	2.07	0.54
1:FR:33:MET:HE1	1:FR:45:MET:HB2	1.89	0.54
1:FX:112:ASP:O	1:FY:76:GLN:NE2	2.27	0.54
1:GO:153:VAL:HG13	1:GO:164:ILE:HD13	1.90	0.54
1:HE:55:GLU:OE1	1:HF:8:TYR:HE1	1.90	0.54
1:HI:75:ASN:N	1:HI:75:ASN:OD1	2.39	0.54
1:AS:163:ARG:NH2	1:AS:166:GLY:O	2.31	0.54
1:AU:55:GLU:OE1	1:HG:8:TYR:CE1	2.61	0.54
1:BM:33:MET:SD	1:BM:45:MET:HB2	2.48	0.54
1:BQ:106:GLY:HA3	1:CM:1:SER:N	2.23	0.54
1:BS:2:TYR:HD2	1:CE:106:GLY:HA3	1.72	0.54
1:BS:29:LYS:O	1:BS:47:THR:OG1	2.22	0.54
1:BW:116:TRP:CZ3	1:BX:67:VAL:HG13	2.40	0.54
1:BY:53:GLN:NE2	1:BY:97:ARG:HB3	2.23	0.54
1:CK:67:VAL:HG22	1:CK:83:SER:O	2.07	0.54
1:CT:53:GLN:NE2	1:CT:97:ARG:HB3	2.23	0.54
1:CV:67:VAL:HG22	1:CV:83:SER:O	2.08	0.54
1:DP:50:PRO:HG2	1:DP:53:GLN:HB3	1.89	0.54
1:DY:162:THR:HG21	1:DZ:40:ASN:OD1	2.06	0.54
1:EB:136:SER:HG	1:EC:22:TYR:HH	1.56	0.54
1:EJ:72:ASN:O	1:EK:95:ILE:HD11	2.07	0.54
1:EP:102:ASP:HB2	1:EP:109:VAL:HG23	1.89	0.54
1:ER:126:PHE:O	1:ER:129:VAL:HG22	2.07	0.54
1:ES:33:MET:SD	1:ES:45:MET:HB2	2.48	0.54
1:FQ:35:ASP:HB2	1:FQ:41:THR:O	2.07	0.54
1:FT:2:TYR:HD2	1:GF:106:GLY:HA3	1.72	0.54
1:GD:44:TYR:OH	1:GE:166:GLY:N	2.40	0.54
1:GZ:126:PHE:O	1:GZ:129:VAL:HG22	2.07	0.54
1:GZ:153:VAL:HG13	1:GZ:164:ILE:HD13	1.89	0.54
1:HA:140:TRP:NE1	1:HB:55:GLU:OE2	2.41	0.54
1:HB:53:GLN:NE2	1:HB:97:ARG:HB3	2.22	0.54
1:HI:129:VAL:HG12	1:HI:134:ARG:HH21	1.72	0.54
1:HJ:153:VAL:HG13	1:HJ:164:ILE:HD13	1.90	0.54
1:HM:138:ILE:O	1:HM:142:ILE:HG13	2.07	0.54
1:HR:67:VAL:HG22	1:HR:83:SER:O	2.08	0.54
1:AC:2:TYR:HD2	1:AO:106:GLY:HA3	1.72	0.54
1:AI:72:ASN:O	1:AJ:95:ILE:HD11	2.07	0.54
1:AP:33:MET:SD	1:AP:45:MET:HB2	2.48	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:33:MET:SD	1:AR:45:MET:HB2	2.47	0.54
1:BH:44:TYR:OH	1:BI:166:GLY:N	2.40	0.54
1:BP:67:VAL:HG22	1:BP:83:SER:O	2.07	0.54
1:BZ:51:LYS:NZ	1:CH:131:ASP:OD1	2.38	0.54
1:CH:81:SER:HG	1:CH:126:PHE:HE1	1.54	0.54
1:CI:55:GLU:OE1	1:CJ:8:TYR:HE1	1.90	0.54
1:CK:23:GLN:HB2	1:FQ:144:GLN:HA	1.90	0.54
1:CM:50:PRO:HG2	1:CM:53:GLN:HB3	1.90	0.54
1:CT:116:TRP:CZ3	1:CU:67:VAL:HG13	2.34	0.54
1:DS:44:TYR:OH	1:DT:166:GLY:N	2.40	0.54
1:DV:33:MET:SD	1:DV:45:MET:HB2	2.48	0.54
1:EC:50:PRO:HG2	1:EC:53:GLN:HB3	1.90	0.54
1:EC:75:ASN:N	1:EC:75:ASN:OD1	2.39	0.54
1:EU:75:ASN:HB3	1:EU:78:PHE:CD2	2.43	0.54
1:FE:53:GLN:NE2	1:FE:97:ARG:HB3	2.23	0.54
1:FJ:153:VAL:HG13	1:FJ:164:ILE:HD13	1.89	0.54
1:FW:138:ILE:O	1:FW:142:ILE:HG13	2.07	0.54
1:GJ:75:ASN:HB3	1:GJ:78:PHE:HD2	1.71	0.54
1:HX:126:PHE:O	1:HX:129:VAL:HG22	2.07	0.54
1:HZ:55:GLU:OE1	1:IA:8:TYR:HE1	1.90	0.54
1:AP:126:PHE:O	1:AP:129:VAL:HG22	2.08	0.54
1:AW:50:PRO:HG2	1:AW:53:GLN:HB3	1.90	0.54
1:BN:55:GLU:OE1	1:BO:8:TYR:HE1	1.90	0.54
1:BW:2:TYR:CD2	1:DA:106:GLY:HA3	2.43	0.54
1:CI:163:ARG:NH2	1:CI:166:GLY:O	2.31	0.54
1:CY:126:PHE:O	1:CY:129:VAL:HG22	2.07	0.54
1:DH:50:PRO:HG2	1:DH:53:GLN:HB3	1.90	0.54
1:DU:102:ASP:HB2	1:DU:109:VAL:HG23	1.89	0.54
1:EM:85:GLY:HA2	1:EM:125:ASP:H	1.73	0.54
1:EV:35:ASP:HB2	1:EV:41:THR:O	2.06	0.54
1:EW:67:VAL:HG22	1:EW:83:SER:O	2.08	0.54
1:EY:112:ASP:O	1:EZ:76:GLN:NE2	2.30	0.54
1:GR:138:ILE:O	1:GR:142:ILE:HG13	2.07	0.54
1:GY:33:MET:SD	1:GY:45:MET:HB2	2.48	0.54
1:HI:50:PRO:HG2	1:HI:53:GLN:HB3	1.90	0.54
1:HR:99:GLN:HB2	1:HR:110:ILE:HG12	1.88	0.54
1:HY:101:THR:HA	1:HY:108:PRO:HA	1.90	0.54
1:HY:156:LYS:HB3	1:HY:161:VAL:HB	1.90	0.54
1:AO:102:ASP:HB2	1:AO:109:VAL:HG23	1.89	0.54
1:AO:140:TRP:NE1	1:AP:55:GLU:OE2	2.41	0.54
1:AV:2:TYR:CD2	1:CD:106:GLY:HA3	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AW:75:ASN:OD1	1:AW:75:ASN:N	2.39	0.54
1:BN:163:ARG:NH2	1:BN:166:GLY:O	2.31	0.54
1:CE:101:THR:HA	1:CE:108:PRO:HA	1.89	0.54
1:CE:110:ILE:HB	1:CF:78:PHE:CD1	2.43	0.54
1:CF:126:PHE:O	1:CF:129:VAL:HG22	2.08	0.54
1:CZ:53:GLN:NE2	1:CZ:97:ARG:HB3	2.22	0.54
1:CZ:101:THR:HA	1:CZ:108:PRO:HA	1.89	0.54
1:DF:71:SER:HA	1:EV:93:LYS:HD2	1.90	0.54
1:DF:99:GLN:HB2	1:DF:110:ILE:HG12	1.88	0.54
1:DG:67:VAL:HG22	1:DG:83:SER:O	2.08	0.54
1:DQ:67:VAL:HG22	1:DQ:83:SER:O	2.08	0.54
1:DZ:75:ASN:HB3	1:DZ:78:PHE:CD2	2.43	0.54
1:EP:140:TRP:NE1	1:EQ:55:GLU:OE2	2.41	0.54
1:EY:29:LYS:O	1:EY:47:THR:OG1	2.22	0.54
1:EY:153:VAL:HG13	1:EY:164:ILE:HD13	1.90	0.54
1:FL:33:MET:SD	1:FL:45:MET:HB2	2.48	0.54
1:FL:126:PHE:O	1:FL:129:VAL:HG22	2.08	0.54
1:FM:85:GLY:HA2	1:FM:125:ASP:HB2	1.88	0.54
1:FR:67:VAL:HG22	1:FR:83:SER:O	2.08	0.54
1:FZ:53:GLN:NE2	1:FZ:97:ARG:HB3	2.23	0.54
1:GJ:99:GLN:HB3	1:GJ:110:ILE:HG23	1.88	0.54
1:GN:101:THR:HA	1:GN:108:PRO:HA	1.88	0.54
1:GN:129:VAL:HG12	1:GN:134:ARG:HH21	1.72	0.54
1:GX:85:GLY:HA2	1:GX:125:ASP:H	1.73	0.54
1:HA:110:ILE:HB	1:HB:78:PHE:CD1	2.43	0.54
1:HC:166:GLY:N	1:HD:44:TYR:OH	2.41	0.54
1:HX:129:VAL:HG23	1:HX:134:ARG:HH22	1.71	0.54
1:AT:129:VAL:HG23	1:AT:134:ARG:HH22	1.73	0.54
1:AV:33:MET:HE3	1:AV:45:MET:HB2	1.89	0.54
1:BD:53:GLN:NE2	1:BD:97:ARG:HB3	2.23	0.54
1:BF:67:VAL:HG22	1:BF:83:SER:O	2.08	0.54
1:BJ:102:ASP:HB2	1:BJ:109:VAL:HG23	1.89	0.54
1:BK:33:MET:SD	1:BK:45:MET:HB2	2.48	0.54
1:BR:50:PRO:HG2	1:BR:53:GLN:HB3	1.90	0.54
1:BS:81:SER:OG	1:CF:75:ASN:ND2	2.36	0.54
1:CF:102:ASP:HB2	1:CF:109:VAL:HG23	1.89	0.54
1:CG:166:GLY:N	1:CH:44:TYR:OH	2.41	0.54
1:CY:33:MET:SD	1:CY:45:MET:HB2	2.48	0.54
1:DC:33:MET:SD	1:DC:45:MET:HB2	2.47	0.54
1:DQ:136:SER:HG	1:DR:22:TYR:HH	1.53	0.54
1:DU:53:GLN:NE2	1:DU:97:ARG:HB3	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:144:GLN:HA	1:IB:23:GLN:HB2	1.90	0.54
1:EC:59:PHE:CD1	1:EC:90:ILE:HG12	2.43	0.54
1:EC:129:VAL:HG12	1:EC:134:ARG:HH21	1.72	0.54
1:ED:142:ILE:HG23	1:EE:142:ILE:HD13	1.89	0.54
1:EG:138:ILE:O	1:EG:142:ILE:HG13	2.08	0.54
1:EN:33:MET:SD	1:EN:45:MET:HB2	2.48	0.54
1:EO:153:VAL:HG13	1:EO:164:ILE:HD13	1.89	0.54
1:EX:157:LEU:CG	1:EX:164:ILE:HD11	2.37	0.54
1:EY:2:TYR:HD2	1:FK:106:GLY:HA3	1.72	0.54
1:FM:166:GLY:N	1:FN:44:TYR:OH	2.41	0.54
1:GD:33:MET:SD	1:GD:45:MET:HB2	2.48	0.54
1:GF:140:TRP:NE1	1:GG:55:GLU:OE2	2.41	0.54
1:GH:166:GLY:N	1:GI:44:TYR:OH	2.41	0.54
1:GJ:55:GLU:OE1	1:GK:8:TYR:HE1	1.90	0.54
1:GO:157:LEU:HG	1:GO:164:ILE:HD11	1.90	0.54
1:GW:33:MET:CE	1:GW:45:MET:HB2	2.38	0.54
1:HB:126:PHE:O	1:HB:129:VAL:HG22	2.08	0.54
1:HD:33:MET:SD	1:HD:45:MET:HB2	2.48	0.54
1:HF:129:VAL:HG23	1:HF:134:ARG:HH22	1.73	0.54
1:HV:140:TRP:NE1	1:HW:55:GLU:OE2	2.41	0.54
1:HW:33:MET:SD	1:HW:45:MET:HB2	2.48	0.54
1:AO:110:ILE:HB	1:AP:78:PHE:CD1	2.43	0.54
1:AQ:138:ILE:O	1:AQ:142:ILE:HG13	2.06	0.54
1:AS:142:ILE:HG23	1:AT:142:ILE:HD13	1.90	0.54
1:AW:101:THR:HA	1:AW:108:PRO:HA	1.88	0.54
1:BF:88:ILE:HD13	1:BG:158:CYS:SG	2.48	0.54
1:CF:53:GLN:NE2	1:CF:97:ARG:HB3	2.22	0.54
1:CL:67:VAL:HG22	1:CL:83:SER:O	2.08	0.54
1:CQ:51:LYS:NZ	1:DV:131:ASP:OD2	2.40	0.54
1:CZ:110:ILE:HB	1:DA:78:PHE:CD1	2.43	0.54
1:DD:47:THR:HG21	1:HQ:161:VAL:HG22	1.89	0.54
1:DE:75:ASN:HB3	1:DE:78:PHE:CD2	2.43	0.54
1:DF:55:GLU:OE1	1:EV:8:TYR:HE1	1.91	0.54
1:DF:112:ASP:OD1	1:EV:78:PHE:HB3	2.08	0.54
1:DG:33:MET:HE3	1:DG:45:MET:HB2	1.90	0.54
1:DT:153:VAL:HG13	1:DT:164:ILE:HD13	1.89	0.54
1:DY:142:ILE:HG23	1:DZ:142:ILE:HD13	1.90	0.54
1:ED:153:VAL:HG13	1:ED:164:ILE:HD13	1.90	0.54
1:EG:51:LYS:HG2	1:FK:159:SER:OG	2.08	0.54
1:EK:129:VAL:HG12	1:EK:134:ARG:HH21	1.73	0.54
1:EN:53:GLN:NE2	1:EN:97:ARG:HB3	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ES:101:THR:HA	1:ES:108:PRO:HA	1.89	0.54
1:ET:163:ARG:NH2	1:ET:166:GLY:O	2.31	0.54
1:FI:33:MET:SD	1:FI:45:MET:HB2	2.48	0.54
1:FK:140:TRP:NE1	1:FL:55:GLU:OE2	2.41	0.54
1:FO:142:ILE:HG23	1:FP:142:ILE:HD13	1.90	0.54
1:FQ:156:LYS:HB3	1:FQ:161:VAL:HB	1.90	0.54
1:GU:53:GLN:NE2	1:GU:97:ARG:HB3	2.23	0.54
1:GW:67:VAL:HG22	1:GW:83:SER:O	2.08	0.54
1:GW:88:ILE:HD13	1:GX:158:CYS:SG	2.48	0.54
1:HR:88:ILE:HD13	1:HS:158:CYS:SG	2.48	0.54
1:HV:63:LYS:NZ	1:HV:125:ASP:OD2	2.41	0.54
1:AA:33:MET:HE1	1:AA:45:MET:HB2	1.89	0.53
1:AI:53:GLN:NE2	1:AI:97:ARG:HB3	2.23	0.53
1:AM:140:TRP:HA	1:AN:22:TYR:HD2	1.70	0.53
1:AS:75:ASN:HB3	1:AS:78:PHE:HD2	1.71	0.53
1:AX:2:TYR:HD2	1:BJ:106:GLY:HA3	1.72	0.53
1:BM:101:THR:HA	1:BM:108:PRO:HA	1.90	0.53
1:BN:142:ILE:HG23	1:BO:142:ILE:HD13	1.90	0.53
1:BQ:67:VAL:HG22	1:BQ:83:SER:O	2.08	0.53
1:CC:53:GLN:NE2	1:CC:97:ARG:HB3	2.23	0.53
1:CF:33:MET:SD	1:CF:45:MET:HB2	2.48	0.53
1:CG:129:VAL:HG23	1:CG:134:ARG:HH22	1.71	0.53
1:CH:156:LYS:HB3	1:CH:161:VAL:HB	1.90	0.53
1:CK:93:LYS:HD2	1:FQ:71:SER:HA	1.90	0.53
1:CL:33:MET:HE3	1:CL:45:MET:HB2	1.90	0.53
1:CX:53:GLN:NE2	1:CX:97:ARG:HB3	2.23	0.53
1:DG:97:ARG:NH1	1:DG:112:ASP:OD2	2.39	0.53
1:DU:140:TRP:NE1	1:DV:55:GLU:OE2	2.41	0.53
1:DX:33:MET:SD	1:DX:45:MET:HB2	2.47	0.53
1:DX:101:THR:HA	1:DX:108:PRO:HA	1.89	0.53
1:EA:156:LYS:HB3	1:EA:161:VAL:HB	1.91	0.53
1:EB:67:VAL:HG22	1:EB:83:SER:O	2.08	0.53
1:EN:44:TYR:OH	1:EO:166:GLY:N	2.40	0.53
1:EO:33:MET:SD	1:EO:45:MET:HB2	2.48	0.53
1:EP:101:THR:HA	1:EP:108:PRO:HA	1.89	0.53
1:EQ:126:PHE:O	1:EQ:129:VAL:HG22	2.08	0.53
1:EV:156:LYS:HB3	1:EV:161:VAL:HB	1.91	0.53
1:EX:59:PHE:CD1	1:EX:90:ILE:HG12	2.43	0.53
1:FB:138:ILE:O	1:FB:142:ILE:HG13	2.07	0.53
1:FM:94:ARG:HH11	1:FN:137:THR:HA	1.73	0.53
1:GB:88:ILE:HD13	1:GC:158:CYS:SG	2.48	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GK:129:VAL:HG23	1:GK:134:ARG:HH22	1.73	0.53
1:GM:67:VAL:HG22	1:GM:83:SER:O	2.08	0.53
1:GO:2:TYR:HD2	1:HA:106:GLY:HA3	1.72	0.53
1:HB:102:ASP:HB2	1:HB:109:VAL:HG23	1.89	0.53
1:HH:67:VAL:HG22	1:HH:83:SER:O	2.08	0.53
1:HI:101:THR:HA	1:HI:108:PRO:HA	1.88	0.53
1:HV:110:ILE:HB	1:HW:78:PHE:CD1	2.43	0.53
1:AA:67:VAL:HG22	1:AA:83:SER:O	2.08	0.53
1:AC:153:VAL:HG13	1:AC:164:ILE:HD13	1.90	0.53
1:AN:104:ASN:O	1:DH:103:VAL:HG23	2.08	0.53
1:AX:157:LEU:HG	1:AX:164:ILE:HD11	1.90	0.53
1:BF:140:TRP:NE1	1:BG:55:GLU:OE2	2.42	0.53
1:BL:166:GLY:N	1:BM:44:TYR:OH	2.41	0.53
1:BZ:129:VAL:HG12	1:BZ:134:ARG:HH21	1.73	0.53
1:CA:33:MET:CE	1:CA:45:MET:HB2	2.38	0.53
1:CE:140:TRP:NE1	1:CF:55:GLU:OE2	2.41	0.53
1:CI:75:ASN:HB3	1:CI:78:PHE:HD2	1.71	0.53
1:CJ:75:ASN:HB3	1:CJ:78:PHE:CD2	2.43	0.53
1:DI:157:LEU:HG	1:DI:164:ILE:HD11	1.90	0.53
1:EL:33:MET:CE	1:EL:45:MET:HB2	2.38	0.53
1:ER:94:ARG:HH11	1:ES:137:THR:HA	1.73	0.53
1:EX:129:VAL:HG12	1:EX:134:ARG:HH21	1.72	0.53
1:EY:142:ILE:HG23	1:EZ:142:ILE:HD13	1.89	0.53
1:FK:110:ILE:HB	1:FL:78:PHE:CD1	2.43	0.53
1:FS:59:PHE:CD1	1:FS:90:ILE:HG12	2.43	0.53
1:GF:63:LYS:NZ	1:GF:125:ASP:OD2	2.41	0.53
1:GJ:142:ILE:HG23	1:GK:142:ILE:HD13	1.90	0.53
1:HJ:128:LEU:HD22	1:HK:98:THR:HG21	1.91	0.53
1:HW:126:PHE:O	1:HW:129:VAL:HG22	2.08	0.53
1:AC:157:LEU:HG	1:AC:164:ILE:HD11	1.90	0.53
1:AO:53:GLN:NE2	1:AO:97:ARG:HB3	2.22	0.53
1:AU:124:ALA:HB3	1:HG:113:CYS:HB2	1.91	0.53
1:BJ:140:TRP:NE1	1:BK:55:GLU:OE2	2.41	0.53
1:BL:94:ARG:HH11	1:BM:137:THR:HA	1.73	0.53
1:BO:75:ASN:HB3	1:BO:78:PHE:CD2	2.43	0.53
1:CA:88:ILE:HD13	1:CB:158:CYS:SG	2.48	0.53
1:DO:53:GLN:NE2	1:DO:97:ARG:HB3	2.23	0.53
1:DQ:33:MET:CE	1:DQ:45:MET:HB2	2.38	0.53
1:DQ:140:TRP:NE1	1:DR:55:GLU:OE2	2.42	0.53
1:DV:53:GLN:NE2	1:DV:97:ARG:HB3	2.22	0.53
1:DY:106:GLY:HA3	1:GU:2:TYR:HD2	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EJ:53:GLN:NE2	1:EJ:97:ARG:HB3	2.23	0.53
1:EY:116:TRP:CZ3	1:EZ:67:VAL:HG13	2.42	0.53
1:FF:129:VAL:HG12	1:FF:134:ARG:HH21	1.73	0.53
1:GB:67:VAL:HG22	1:GB:83:SER:O	2.08	0.53
1:GH:94:ARG:HH11	1:GI:137:THR:HA	1.73	0.53
1:GO:142:ILE:HG23	1:GP:142:ILE:HD13	1.89	0.53
1:HG:156:LYS:HB3	1:HG:161:VAL:HB	1.91	0.53
1:HU:33:MET:SD	1:HU:45:MET:HB2	2.48	0.53
1:HW:102:ASP:HB2	1:HW:109:VAL:HG23	1.89	0.53
1:HX:94:ARG:HH11	1:HY:137:THR:HA	1.73	0.53
1:HX:156:LYS:HB3	1:HX:161:VAL:HB	1.89	0.53
1:AB:84:LYS:HG2	1:DH:75:ASN:ND2	2.24	0.53
1:AK:88:ILE:HD13	1:AL:158:CYS:SG	2.48	0.53
1:AT:75:ASN:HB3	1:AT:78:PHE:CD2	2.43	0.53
1:AV:67:VAL:HG22	1:AV:83:SER:O	2.08	0.53
1:BI:33:MET:SD	1:BI:45:MET:HB2	2.48	0.53
1:BJ:55:GLU:OE2	1:BK:140:TRP:NE1	2.42	0.53
1:BU:116:TRP:CZ3	1:BV:67:VAL:HG13	2.31	0.53
1:BX:32:TYR:HE2	1:EU:163:ARG:NH1	2.07	0.53
1:CB:85:GLY:HA2	1:CB:125:ASP:H	1.73	0.53
1:CD:33:MET:SD	1:CD:45:MET:HB2	2.47	0.53
1:CI:142:ILE:HG23	1:CJ:142:ILE:HD13	1.90	0.53
1:CK:156:LYS:HB3	1:CK:161:VAL:HB	1.91	0.53
1:CN:142:ILE:HG23	1:CO:142:ILE:HD13	1.89	0.53
1:CQ:138:ILE:O	1:CQ:142:ILE:HG13	2.07	0.53
1:CT:114:PRO:HG2	1:CU:67:VAL:CG1	2.39	0.53
1:DB:94:ARG:HH11	1:DC:137:THR:HA	1.73	0.53
1:DH:59:PHE:CD1	1:DH:90:ILE:HG12	2.43	0.53
1:DU:63:LYS:NZ	1:DU:125:ASP:OD2	2.41	0.53
1:DW:166:GLY:N	1:DX:44:TYR:OH	2.41	0.53
1:ER:166:GLY:N	1:ES:44:TYR:OH	2.41	0.53
1:FG:67:VAL:HG22	1:FG:83:SER:O	2.08	0.53
1:GB:33:MET:CE	1:GB:45:MET:HB2	2.38	0.53
1:HA:102:ASP:HB2	1:HA:109:VAL:HG23	1.88	0.53
1:HD:156:LYS:HB3	1:HD:161:VAL:HB	1.90	0.53
1:HJ:29:LYS:O	1:HJ:47:THR:OG1	2.22	0.53
1:HT:33:MET:SD	1:HT:45:MET:HB2	2.48	0.53
1:HU:126:PHE:O	1:HU:129:VAL:HG22	2.07	0.53
1:AK:29:LYS:O	1:AK:47:THR:OG1	2.20	0.53
1:AN:153:VAL:HG13	1:AN:164:ILE:HD13	1.89	0.53
1:AQ:129:VAL:HG23	1:AQ:134:ARG:HH22	1.71	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CD:126:PHE:O	1:CD:129:VAL:HG22	2.07	0.53
1:CG:94:ARG:HH11	1:CH:137:THR:HA	1.73	0.53
1:CL:55:GLU:OE2	1:CM:140:TRP:NE1	2.42	0.53
1:DF:53:GLN:NE2	1:DF:97:ARG:HB3	2.24	0.53
1:DK:72:ASN:O	1:DK:72:ASN:ND2	2.30	0.53
1:DQ:88:ILE:HD13	1:DR:158:CYS:SG	2.48	0.53
1:DW:94:ARG:HH11	1:DX:137:THR:HA	1.73	0.53
1:ED:116:TRP:CZ3	1:EE:67:VAL:HG13	2.42	0.53
1:FG:33:MET:CE	1:FG:45:MET:HB2	2.38	0.53
1:FG:140:TRP:NE1	1:FH:55:GLU:OE2	2.42	0.53
1:FP:129:VAL:HG23	1:FP:134:ARG:HH22	1.73	0.53
1:FR:55:GLU:OE2	1:FS:140:TRP:NE1	2.42	0.53
1:GI:101:THR:HA	1:GI:108:PRO:HA	1.89	0.53
1:GO:112:ASP:O	1:GP:76:GLN:NE2	2.30	0.53
1:GZ:33:MET:SD	1:GZ:45:MET:HB2	2.47	0.53
1:HI:59:PHE:CD1	1:HI:90:ILE:HG12	2.43	0.53
1:IA:75:ASN:HB3	1:IA:78:PHE:CD2	2.43	0.53
1:AD:52:ASP:OD1	1:AD:97:ARG:NH2	2.36	0.53
1:AF:138:ILE:O	1:AF:142:ILE:HG13	2.07	0.53
1:AQ:94:ARG:HH11	1:AR:137:THR:HA	1.73	0.53
1:AQ:166:GLY:N	1:AR:44:TYR:OH	2.41	0.53
1:AR:156:LYS:HB3	1:AR:161:VAL:HB	1.90	0.53
1:AU:156:LYS:HB3	1:AU:161:VAL:HB	1.91	0.53
1:BB:29:LYS:O	1:BB:47:THR:OG1	2.20	0.53
1:BD:140:TRP:NE1	1:BE:55:GLU:OE2	2.42	0.53
1:BY:114:PRO:HG2	1:BZ:67:VAL:CG1	2.39	0.53
1:CD:153:VAL:HG13	1:CD:164:ILE:HD13	1.89	0.53
1:CK:53:GLN:NE2	1:CK:97:ARG:HB3	2.24	0.53
1:CL:97:ARG:NH1	1:CL:112:ASP:OD2	2.39	0.53
1:CM:75:ASN:ND2	1:DH:82:SER:O	2.42	0.53
1:CN:116:TRP:CZ3	1:CO:67:VAL:HG13	2.42	0.53
1:CZ:140:TRP:NE1	1:DA:55:GLU:OE2	2.41	0.53
1:DA:33:MET:SD	1:DA:45:MET:HB2	2.48	0.53
1:DC:156:LYS:HB3	1:DC:161:VAL:HB	1.90	0.53
1:DD:142:ILE:HG23	1:DE:142:ILE:HD13	1.90	0.53
1:DU:110:ILE:HB	1:DV:78:PHE:CD1	2.43	0.53
1:EF:33:MET:HE1	1:EF:45:MET:HB2	1.91	0.53
1:EO:105:THR:HG22	1:HI:102:ASP:HA	1.90	0.53
1:EP:63:LYS:NZ	1:EP:125:ASP:OD2	2.41	0.53
1:EQ:33:MET:SD	1:EQ:45:MET:HB2	2.48	0.53
1:ES:156:LYS:HB3	1:ES:161:VAL:HB	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ET:142:ILE:HG23	1:EU:142:ILE:HD13	1.90	0.53
1:EY:128:LEU:HD22	1:EZ:98:THR:HG21	1.91	0.53
1:FS:50:PRO:HG2	1:FS:53:GLN:HB3	1.90	0.53
1:FT:142:ILE:HG23	1:FU:142:ILE:HD13	1.89	0.53
1:GA:129:VAL:HG12	1:GA:134:ARG:HH21	1.73	0.53
1:GC:85:GLY:HA2	1:GC:125:ASP:H	1.73	0.53
1:GD:53:GLN:NE2	1:GD:97:ARG:HB3	2.23	0.53
1:GF:101:THR:HA	1:GF:108:PRO:HA	1.89	0.53
1:GG:33:MET:SD	1:GG:45:MET:HB2	2.48	0.53
1:GL:53:GLN:NE2	1:GL:97:ARG:HB3	2.24	0.53
1:GU:77:THR:OG1	1:HD:82:SER:OG	2.21	0.53
1:AC:112:ASP:O	1:AD:76:GLN:NE2	2.30	0.53
1:AN:126:PHE:O	1:AN:129:VAL:HG22	2.07	0.53
1:AO:55:GLU:OE2	1:AP:140:TRP:NE1	2.42	0.53
1:BH:53:GLN:NE2	1:BH:97:ARG:HB3	2.24	0.53
1:BO:129:VAL:HG23	1:BO:134:ARG:HH22	1.73	0.53
1:BQ:55:GLU:OE2	1:BR:140:TRP:NE1	2.42	0.53
1:BR:59:PHE:CD1	1:BR:90:ILE:HG12	2.43	0.53
1:BS:128:LEU:HD22	1:BT:98:THR:HG21	1.91	0.53
1:CA:140:TRP:NE1	1:CB:55:GLU:OE2	2.42	0.53
1:CV:33:MET:CE	1:CV:45:MET:HB2	2.38	0.53
1:DE:129:VAL:HG23	1:DE:134:ARG:HH22	1.73	0.53
1:DF:142:ILE:HG23	1:EV:142:ILE:HD13	1.91	0.53
1:DN:107:LEU:HD12	1:HF:111:VAL:HG21	1.91	0.53
1:EF:72:ASN:O	1:EF:72:ASN:ND2	2.30	0.53
1:EK:50:PRO:HG2	1:EK:53:GLN:HB3	1.89	0.53
1:EL:33:MET:HE3	1:EL:45:MET:HB2	1.91	0.53
1:FI:53:GLN:NE2	1:FI:97:ARG:HB3	2.23	0.53
1:FK:55:GLU:OE2	1:FL:140:TRP:NE1	2.42	0.53
1:HC:94:ARG:HH11	1:HD:137:THR:HA	1.73	0.53
1:HJ:142:ILE:HG23	1:HK:142:ILE:HD13	1.89	0.53
1:HM:131:ASP:OD1	1:HN:51:LYS:HE3	2.09	0.53
1:HP:140:TRP:NE1	1:HQ:55:GLU:OE2	2.42	0.53
1:HT:53:GLN:NE2	1:HT:97:ARG:HB3	2.23	0.53
1:HV:55:GLU:OE2	1:HW:140:TRP:NE1	2.42	0.53
1:HZ:163:ARG:NH2	1:HZ:166:GLY:O	2.31	0.53
1:AB:50:PRO:HG2	1:AB:53:GLN:HB3	1.90	0.53
1:AK:140:TRP:NE1	1:AL:55:GLU:OE2	2.42	0.53
1:BC:107:LEU:HD23	1:BC:108:PRO:O	2.09	0.53
1:BP:53:GLN:NE2	1:BP:97:ARG:HB3	2.24	0.53
1:BP:55:GLU:OE2	1:GL:140:TRP:CE2	2.62	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BX:107:LEU:HD23	1:BX:108:PRO:O	2.09	0.53
1:CL:51:LYS:HZ2	1:DH:131:ASP:CG	2.11	0.53
1:CN:153:VAL:HG13	1:CN:164:ILE:HD13	1.90	0.53
1:CS:32:TYR:HE2	1:IA:163:ARG:NH1	2.07	0.53
1:CU:129:VAL:HG12	1:CU:134:ARG:HH21	1.73	0.53
1:EB:4:GLN:HB3	1:EC:98:THR:HA	1.91	0.53
1:EB:97:ARG:NH1	1:EB:112:ASP:OD2	2.39	0.53
1:ED:72:ASN:O	1:ED:72:ASN:ND2	2.29	0.53
1:EG:131:ASP:OD1	1:EH:51:LYS:HE3	2.09	0.53
1:EP:110:ILE:HB	1:EQ:78:PHE:CD1	2.43	0.53
1:FN:75:ASN:HB3	1:FN:78:PHE:CE2	2.44	0.53
1:FN:156:LYS:HB3	1:FN:161:VAL:HB	1.90	0.53
1:FT:153:VAL:HG13	1:FT:164:ILE:HD13	1.90	0.53
1:FW:131:ASP:OD1	1:FX:51:LYS:HE3	2.09	0.53
1:GB:140:TRP:NE1	1:GC:55:GLU:OE2	2.42	0.53
1:GI:75:ASN:HB3	1:GI:78:PHE:CE2	2.44	0.53
1:HN:29:LYS:O	1:HN:47:THR:OG1	2.20	0.53
1:HO:107:LEU:HD23	1:HO:108:PRO:O	2.09	0.53
1:HV:142:ILE:HD13	1:HW:142:ILE:HG23	1.91	0.53
1:AC:82:SER:HB3	1:AP:75:ASN:HB2	1.91	0.53
1:AF:131:ASP:OD1	1:AG:51:LYS:HE3	2.09	0.53
1:AI:140:TRP:NE1	1:AJ:55:GLU:OE2	2.42	0.53
1:AK:33:MET:CE	1:AK:45:MET:HB2	2.38	0.53
1:AL:85:GLY:HA2	1:AL:125:ASP:H	1.73	0.53
1:AM:53:GLN:NE2	1:AM:97:ARG:HB3	2.23	0.53
1:AQ:22:TYR:CD2	1:AR:140:TRP:HA	2.44	0.53
1:BF:33:MET:CE	1:BF:45:MET:HB2	2.38	0.53
1:BP:140:TRP:CE2	1:GL:55:GLU:OE2	2.62	0.53
1:BS:157:LEU:HG	1:BS:164:ILE:HD11	1.90	0.53
1:BV:131:ASP:OD1	1:BW:51:LYS:HE3	2.09	0.53
1:CG:67:VAL:HG22	1:CG:83:SER:O	2.09	0.53
1:CJ:53:GLN:NE2	1:CJ:97:ARG:HB3	2.24	0.53
1:DG:55:GLU:OE2	1:DH:140:TRP:NE1	2.42	0.53
1:DN:107:LEU:HD23	1:DN:108:PRO:O	2.09	0.53
1:DV:102:ASP:HB3	1:DV:105:THR:O	2.09	0.53
1:EB:2:TYR:HB3	1:EC:100:SER:HB2	1.91	0.53
1:EL:88:ILE:HD13	1:EM:158:CYS:SG	2.48	0.53
1:EW:2:TYR:HB3	1:EX:100:SER:HB2	1.91	0.53
1:FE:114:PRO:HG2	1:FF:67:VAL:CG1	2.39	0.53
1:FL:102:ASP:HB3	1:FL:105:THR:O	2.09	0.53
1:FP:75:ASN:HB3	1:FP:78:PHE:CD2	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GK:75:ASN:HB3	1:GK:78:PHE:CD2	2.43	0.53
1:HN:72:ASN:O	1:HO:95:ILE:HD11	2.09	0.53
1:HS:85:GLY:HA2	1:HS:125:ASP:H	1.73	0.53
1:HU:153:VAL:HG13	1:HU:164:ILE:HD13	1.89	0.53
1:HZ:142:ILE:HG23	1:IA:142:ILE:HD13	1.90	0.53
1:IA:129:VAL:HG23	1:IA:134:ARG:HH22	1.73	0.53
1:AA:4:GLN:HB3	1:AB:98:THR:HA	1.91	0.53
1:AB:59:PHE:CD1	1:AB:90:ILE:HG12	2.43	0.53
1:AB:75:ASN:N	1:AB:75:ASN:OD1	2.39	0.53
1:AI:99:GLN:HB2	1:AI:110:ILE:HG12	1.91	0.53
1:AO:142:ILE:HD13	1:AP:142:ILE:HG23	1.91	0.53
1:AT:59:PHE:HD1	1:AT:90:ILE:HG12	1.74	0.53
1:AW:59:PHE:CD1	1:AW:90:ILE:HG12	2.43	0.53
1:AX:72:ASN:O	1:AX:72:ASN:ND2	2.29	0.53
1:AX:153:VAL:HG13	1:AX:164:ILE:HD13	1.90	0.53
1:BJ:110:ILE:HB	1:BK:78:PHE:CD1	2.43	0.53
1:BL:22:TYR:CD2	1:BM:140:TRP:HA	2.44	0.53
1:BQ:2:TYR:HB3	1:BR:100:SER:HB2	1.91	0.53
1:CE:55:GLU:OE2	1:CF:140:TRP:NE1	2.42	0.53
1:DA:101:THR:HA	1:DA:108:PRO:HA	1.91	0.53
1:DA:102:ASP:HB2	1:DA:109:VAL:HG23	1.89	0.53
1:DA:102:ASP:HB3	1:DA:105:THR:O	2.09	0.53
1:DB:166:GLY:N	1:DC:44:TYR:OH	2.41	0.53
1:DD:55:GLU:OE2	1:DE:140:TRP:NE1	2.42	0.53
1:DR:85:GLY:HA2	1:DR:125:ASP:H	1.73	0.53
1:EU:53:GLN:NE2	1:EU:97:ARG:HB3	2.24	0.53
1:EW:4:GLN:HB3	1:EX:98:THR:HA	1.91	0.53
1:FD:107:LEU:HD23	1:FD:108:PRO:O	2.09	0.53
1:FM:113:CYS:HB2	1:FN:124:ALA:HB3	1.92	0.53
1:FQ:53:GLN:NE2	1:FQ:97:ARG:HB3	2.24	0.53
1:FT:82:SER:HB3	1:GG:75:ASN:HB2	1.91	0.53
1:GF:55:GLU:OE2	1:GG:140:TRP:NE1	2.42	0.53
1:GF:110:ILE:HB	1:GG:78:PHE:CD1	2.43	0.53
1:GF:142:ILE:HD13	1:GG:142:ILE:HG23	1.91	0.53
1:GG:102:ASP:HB3	1:GG:105:THR:O	2.09	0.53
1:GU:140:TRP:NE1	1:GV:55:GLU:OE2	2.42	0.53
1:GW:140:TRP:NE1	1:GX:55:GLU:OE2	2.42	0.53
1:HD:101:THR:HA	1:HD:108:PRO:HA	1.89	0.53
1:HH:4:GLN:HB3	1:HI:98:THR:HA	1.91	0.53
1:HP:99:GLN:HB2	1:HP:110:ILE:HG12	1.91	0.53
1:HR:140:TRP:NE1	1:HS:55:GLU:OE2	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HX:166:GLY:N	1:HY:44:TYR:OH	2.41	0.53
1:AE:72:ASN:O	1:AE:72:ASN:ND2	2.30	0.52
1:AL:159:SER:OG	1:AR:47:THR:HB	2.10	0.52
1:AO:72:ASN:O	1:AO:72:ASN:ND2	2.32	0.52
1:AU:53:GLN:NE2	1:AU:97:ARG:HB3	2.24	0.52
1:BA:131:ASP:OD1	1:BB:51:LYS:HE3	2.09	0.52
1:BG:159:SER:OG	1:BM:47:THR:HB	2.10	0.52
1:BO:53:GLN:NE2	1:BO:97:ARG:HB3	2.24	0.52
1:BQ:4:GLN:HB3	1:BR:98:THR:HA	1.91	0.52
1:BV:157:LEU:HG	1:BV:164:ILE:HD11	1.91	0.52
1:BY:99:GLN:HB2	1:BY:110:ILE:HG12	1.91	0.52
1:BY:140:TRP:NE1	1:BZ:55:GLU:OE2	2.42	0.52
1:CH:101:THR:HA	1:CH:108:PRO:HA	1.89	0.52
1:CN:128:LEU:HD22	1:CO:98:THR:HG21	1.91	0.52
1:CV:88:ILE:HD13	1:CW:158:CYS:SG	2.48	0.52
1:DD:8:TYR:HE1	1:DE:55:GLU:OE1	1.93	0.52
1:DI:82:SER:HB3	1:DV:75:ASN:HB2	1.91	0.52
1:DQ:29:LYS:O	1:DQ:47:THR:OG1	2.20	0.52
1:EB:55:GLU:OE2	1:EC:140:TRP:NE1	2.42	0.52
1:EC:157:LEU:CG	1:EC:164:ILE:HD11	2.37	0.52
1:ED:128:LEU:HD22	1:EE:98:THR:HG21	1.91	0.52
1:EH:72:ASN:O	1:EI:95:ILE:HD11	2.09	0.52
1:EI:107:LEU:HD23	1:EI:108:PRO:O	2.09	0.52
1:FD:29:LYS:O	1:FD:47:THR:OG1	2.22	0.52
1:FG:88:ILE:HD13	1:FH:158:CYS:SG	2.48	0.52
1:FL:101:THR:HA	1:FL:108:PRO:HA	1.91	0.52
1:GG:101:THR:HA	1:GG:108:PRO:HA	1.91	0.52
1:GH:142:ILE:HG23	1:GI:142:ILE:HD13	1.91	0.52
1:GN:75:ASN:OD1	1:GN:75:ASN:N	2.39	0.52
1:GN:157:LEU:CG	1:GN:164:ILE:HD11	2.37	0.52
1:GU:99:GLN:HB2	1:GU:110:ILE:HG12	1.91	0.52
1:HC:22:TYR:CD2	1:HD:140:TRP:HA	2.44	0.52
1:HC:67:VAL:HG22	1:HC:83:SER:O	2.09	0.52
1:HD:75:ASN:HB3	1:HD:78:PHE:CE2	2.44	0.52
1:HD:81:SER:HG	1:HD:126:PHE:HE1	1.57	0.52
1:HG:53:GLN:NE2	1:HG:97:ARG:HB3	2.24	0.52
1:HP:114:PRO:HG2	1:HQ:67:VAL:CG1	2.39	0.52
1:HP:116:TRP:CZ3	1:HQ:67:VAL:HG13	2.34	0.52
1:IA:53:GLN:NE2	1:IA:97:ARG:HB3	2.24	0.52
1:IB:53:GLN:NE2	1:IB:97:ARG:HB3	2.24	0.52
1:AQ:2:TYR:HA	1:AR:100:SER:HB3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AV:55:GLU:OE2	1:AW:140:TRP:NE1	2.42	0.52
1:BE:129:VAL:HG12	1:BE:134:ARG:HH21	1.73	0.52
1:BJ:142:ILE:HD13	1:BK:142:ILE:HG23	1.91	0.52
1:BM:75:ASN:HB3	1:BM:78:PHE:CE2	2.44	0.52
1:BN:55:GLU:OE2	1:BO:140:TRP:NE1	2.43	0.52
1:BN:75:ASN:HB3	1:BN:78:PHE:HD2	1.71	0.52
1:BW:136:SER:HG	1:BX:22:TYR:HH	1.54	0.52
1:BZ:51:LYS:HZ1	1:CH:131:ASP:CG	2.13	0.52
1:CG:2:TYR:HA	1:CH:100:SER:HB3	1.92	0.52
1:CQ:131:ASP:OD1	1:CR:51:LYS:HE3	2.09	0.52
1:CU:51:LYS:HZ3	1:DC:131:ASP:CG	2.12	0.52
1:DA:126:PHE:O	1:DA:129:VAL:HG22	2.08	0.52
1:DE:37:GLN:OE1	1:DE:58:THR:HG21	2.10	0.52
1:DI:153:VAL:HG13	1:DI:164:ILE:HD13	1.90	0.52
1:DO:140:TRP:NE1	1:DP:55:GLU:OE2	2.42	0.52
1:DS:53:GLN:NE2	1:DS:97:ARG:HB3	2.23	0.52
1:DU:55:GLU:OE2	1:DV:140:TRP:NE1	2.42	0.52
1:DX:156:LYS:HB3	1:DX:161:VAL:HB	1.90	0.52
1:DZ:53:GLN:NE2	1:DZ:97:ARG:HB3	2.24	0.52
1:ED:157:LEU:HG	1:ED:164:ILE:HD11	1.89	0.52
1:EM:159:SER:OG	1:ES:47:THR:HB	2.09	0.52
1:FC:32:TYR:HE1	1:FC:42:ALA:HB1	1.75	0.52
1:HG:129:VAL:HG23	1:HG:134:ARG:NH2	2.25	0.52
1:HJ:82:SER:HB3	1:HW:75:ASN:HB2	1.91	0.52
1:HR:142:ILE:HG23	1:HS:142:ILE:HD13	1.92	0.52
1:HX:22:TYR:CD2	1:HY:140:TRP:HA	2.44	0.52
1:AV:2:TYR:HB3	1:AW:100:SER:HB2	1.91	0.52
1:AX:128:LEU:HD22	1:AY:98:THR:HG21	1.91	0.52
1:BG:85:GLY:HA2	1:BG:125:ASP:H	1.73	0.52
1:CJ:37:GLN:OE1	1:CJ:58:THR:HG21	2.10	0.52
1:CR:72:ASN:O	1:CS:95:ILE:HD11	2.09	0.52
1:CV:140:TRP:NE1	1:CW:55:GLU:OE2	2.42	0.52
1:DF:156:LYS:HB3	1:DF:161:VAL:HB	1.90	0.52
1:DG:2:TYR:HB3	1:DH:100:SER:HB2	1.91	0.52
1:DQ:142:ILE:HG23	1:DR:142:ILE:HD13	1.91	0.52
1:DV:126:PHE:O	1:DV:129:VAL:HG22	2.08	0.52
1:DW:22:TYR:CD2	1:DX:140:TRP:HA	2.44	0.52
1:DY:55:GLU:OE2	1:DZ:140:TRP:NE1	2.42	0.52
1:DZ:129:VAL:HG23	1:DZ:134:ARG:HH22	1.73	0.52
1:EJ:140:TRP:NE1	1:EK:55:GLU:OE2	2.42	0.52
1:EQ:106:GLY:HA3	1:HN:2:TYR:CD2	2.41	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ER:2:TYR:HA	1:ES:100:SER:HB3	1.92	0.52
1:ER:67:VAL:HG22	1:ER:83:SER:O	2.09	0.52
1:ET:55:GLU:OE2	1:EU:140:TRP:NE1	2.43	0.52
1:EX:50:PRO:HG2	1:EX:53:GLN:HB3	1.90	0.52
1:EY:82:SER:HB3	1:FL:75:ASN:HB2	1.91	0.52
1:FE:99:GLN:HB2	1:FE:110:ILE:HG12	1.91	0.52
1:FG:33:MET:HE1	1:FG:45:MET:HB2	1.91	0.52
1:FH:85:GLY:HA2	1:FH:125:ASP:H	1.73	0.52
1:FM:142:ILE:HG23	1:FN:142:ILE:HD13	1.92	0.52
1:FO:8:TYR:HE1	1:FP:55:GLU:OE1	1.93	0.52
1:FX:32:TYR:HE1	1:FX:42:ALA:HB1	1.74	0.52
1:GB:142:ILE:HG23	1:GC:142:ILE:HD13	1.92	0.52
1:GH:67:VAL:HG22	1:GH:83:SER:O	2.10	0.52
1:GS:29:LYS:O	1:GS:47:THR:OG1	2.20	0.52
1:HE:8:TYR:HE1	1:HF:55:GLU:OE1	1.93	0.52
1:HE:75:ASN:HB3	1:HE:78:PHE:HD2	1.71	0.52
1:HK:85:GLY:HA2	1:HK:125:ASP:H	1.75	0.52
1:HQ:129:VAL:HG12	1:HQ:134:ARG:HH21	1.73	0.52
1:HS:159:SER:OG	1:HY:47:THR:HB	2.10	0.52
1:HZ:67:VAL:HG22	1:HZ:83:SER:O	2.10	0.52
1:IA:37:GLN:OE1	1:IA:58:THR:HG21	2.10	0.52
1:AB:75:ASN:ND2	1:AW:82:SER:O	2.42	0.52
1:AP:102:ASP:HB3	1:AP:105:THR:O	2.09	0.52
1:AU:129:VAL:HG23	1:AU:134:ARG:NH2	2.25	0.52
1:AV:136:SER:HG	1:AW:22:TYR:HH	1.52	0.52
1:AY:85:GLY:HA2	1:AY:125:ASP:H	1.75	0.52
1:BF:142:ILE:HG23	1:BG:142:ILE:HD13	1.91	0.52
1:BL:2:TYR:HA	1:BM:100:SER:HB3	1.92	0.52
1:BM:156:LYS:HB3	1:BM:161:VAL:HB	1.90	0.52
1:CG:113:CYS:HB2	1:CH:124:ALA:HB3	1.92	0.52
1:CM:59:PHE:CD1	1:CM:90:ILE:HG12	2.43	0.52
1:CV:142:ILE:HG23	1:CW:142:ILE:HD13	1.92	0.52
1:DG:4:GLN:HB3	1:DH:98:THR:HA	1.91	0.52
1:DY:78:PHE:HD1	1:DZ:110:ILE:O	1.93	0.52
1:EJ:114:PRO:HG2	1:EK:67:VAL:CG1	2.39	0.52
1:EL:140:TRP:NE1	1:EM:55:GLU:OE2	2.42	0.52
1:EL:142:ILE:HG23	1:EM:142:ILE:HD13	1.91	0.52
1:EP:55:GLU:OE2	1:EQ:140:TRP:NE1	2.42	0.52
1:ET:8:TYR:HE1	1:EU:55:GLU:OE1	1.93	0.52
1:EU:37:GLN:OE1	1:EU:58:THR:HG21	2.10	0.52
1:FM:22:TYR:CD2	1:FN:140:TRP:HA	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FR:2:TYR:CB	1:FS:100:SER:HB2	2.40	0.52
1:FZ:99:GLN:HB2	1:FZ:110:ILE:HG12	1.91	0.52
1:GH:22:TYR:CD2	1:GI:140:TRP:HA	2.44	0.52
1:GJ:8:TYR:HE1	1:GK:55:GLU:OE1	1.93	0.52
1:GK:53:GLN:NE2	1:GK:97:ARG:HB3	2.24	0.52
1:GN:50:PRO:HG2	1:GN:53:GLN:HB3	1.90	0.52
1:GN:59:PHE:CD1	1:GN:90:ILE:HG12	2.43	0.52
1:HA:55:GLU:OE2	1:HB:140:TRP:NE1	2.42	0.52
1:HF:75:ASN:HB3	1:HF:78:PHE:CD2	2.43	0.52
1:HR:33:MET:CE	1:HR:45:MET:HB2	2.38	0.52
1:HW:101:THR:HA	1:HW:108:PRO:HA	1.91	0.52
1:AX:116:TRP:CZ3	1:AY:67:VAL:HG13	2.42	0.52
1:BB:32:TYR:HE1	1:BB:42:ALA:HB1	1.75	0.52
1:BK:126:PHE:O	1:BK:129:VAL:HG22	2.08	0.52
1:BT:85:GLY:HA2	1:BT:125:ASP:H	1.75	0.52
1:CB:159:SER:OG	1:CH:47:THR:HB	2.10	0.52
1:CG:142:ILE:HG23	1:CH:142:ILE:HD13	1.91	0.52
1:CI:55:GLU:OE2	1:CJ:140:TRP:NE1	2.42	0.52
1:CL:2:TYR:CB	1:CM:100:SER:HB2	2.40	0.52
1:CN:82:SER:HB3	1:DA:75:ASN:HB2	1.91	0.52
1:CR:2:TYR:HD2	1:DV:106:GLY:HA3	1.75	0.52
1:CR:32:TYR:HE1	1:CR:42:ALA:HB1	1.75	0.52
1:CY:102:ASP:HB2	1:CY:109:VAL:HG23	1.92	0.52
1:DB:113:CYS:HB2	1:DC:124:ALA:HB3	1.91	0.52
1:DB:142:ILE:HG23	1:DC:142:ILE:HD13	1.92	0.52
1:DD:78:PHE:HD1	1:DE:110:ILE:O	1.93	0.52
1:DF:98:THR:HA	1:EV:4:GLN:HB3	1.92	0.52
1:DW:153:VAL:HG22	1:DW:164:ILE:HG21	1.92	0.52
1:EP:142:ILE:HD13	1:EQ:142:ILE:HG23	1.91	0.52
1:EV:53:GLN:NE2	1:EV:97:ARG:HB3	2.24	0.52
1:FP:53:GLN:NE2	1:FP:97:ARG:HB3	2.24	0.52
1:GG:126:PHE:O	1:GG:129:VAL:HG22	2.08	0.52
1:GL:156:LYS:HB3	1:GL:161:VAL:HB	1.91	0.52
1:GT:29:LYS:O	1:GT:47:THR:OG1	2.22	0.52
1:HB:102:ASP:HB3	1:HB:105:THR:O	2.09	0.52
1:HE:67:VAL:HG22	1:HE:83:SER:O	2.09	0.52
1:HE:142:ILE:HG23	1:HF:142:ILE:HD13	1.90	0.52
1:HI:157:LEU:CG	1:HI:164:ILE:HD11	2.37	0.52
1:HN:32:TYR:HE1	1:HN:42:ALA:HB1	1.75	0.52
1:HU:53:GLN:NE2	1:HU:97:ARG:HB3	2.25	0.52
1:IA:59:PHE:HD1	1:IA:90:ILE:HG12	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:2:TYR:HB3	1:AB:100:SER:HB2	1.91	0.52
1:AC:29:LYS:O	1:AC:47:THR:OG1	2.22	0.52
1:AC:128:LEU:HD22	1:AD:98:THR:HG21	1.91	0.52
1:AF:157:LEU:HG	1:AF:164:ILE:HD11	1.92	0.52
1:AH:107:LEU:HD23	1:AH:108:PRO:O	2.09	0.52
1:AJ:129:VAL:HG12	1:AJ:134:ARG:HH21	1.73	0.52
1:AM:134:ARG:O	1:AM:137:THR:HG22	2.10	0.52
1:AP:101:THR:HA	1:AP:108:PRO:HA	1.91	0.52
1:AR:75:ASN:HB3	1:AR:78:PHE:CE2	2.44	0.52
1:AU:138:ILE:HG21	1:HG:147:LEU:HD21	1.92	0.52
1:AX:82:SER:HB3	1:BK:75:ASN:HB2	1.91	0.52
1:AY:52:ASP:OD1	1:AY:97:ARG:NH2	2.36	0.52
1:BD:114:PRO:HG2	1:BE:67:VAL:CG1	2.39	0.52
1:BW:72:ASN:O	1:BX:95:ILE:HD11	2.09	0.52
1:CJ:163:ARG:NH1	1:EI:32:TYR:HE2	2.08	0.52
1:CY:53:GLN:NE2	1:CY:97:ARG:HB3	2.25	0.52
1:DI:128:LEU:HD22	1:DJ:98:THR:HG21	1.91	0.52
1:DM:32:TYR:HE1	1:DM:42:ALA:HB1	1.74	0.52
1:EW:105:THR:HG21	1:FR:109:VAL:HG21	1.92	0.52
1:EZ:107:LEU:HD23	1:EZ:108:PRO:O	2.10	0.52
1:FB:101:THR:HA	1:FB:108:PRO:HA	1.92	0.52
1:FG:142:ILE:HG23	1:FH:142:ILE:HD13	1.92	0.52
1:FM:67:VAL:HG22	1:FM:83:SER:O	2.09	0.52
1:FO:67:VAL:HG22	1:FO:83:SER:O	2.10	0.52
1:FT:128:LEU:HD22	1:FU:98:THR:HG21	1.91	0.52
1:GS:32:TYR:HE1	1:GS:42:ALA:HB1	1.75	0.52
1:GY:53:GLN:NE2	1:GY:97:ARG:HB3	2.23	0.52
1:HA:63:LYS:NZ	1:HA:125:ASP:OD2	2.41	0.52
1:HE:126:PHE:CD2	1:HE:128:LEU:HG	2.45	0.52
1:HF:59:PHE:HD1	1:HF:90:ILE:HG12	1.74	0.52
1:AT:103:VAL:HG21	1:FY:103:VAL:O	2.10	0.52
1:BA:101:THR:HA	1:BA:108:PRO:HA	1.92	0.52
1:BB:72:ASN:O	1:BC:95:ILE:HD11	2.09	0.52
1:BL:113:CYS:HB2	1:BM:124:ALA:HB3	1.91	0.52
1:BN:8:TYR:HE1	1:BO:55:GLU:OE1	1.92	0.52
1:CI:78:PHE:HD1	1:CJ:110:ILE:O	1.93	0.52
1:DB:22:TYR:CD2	1:DC:140:TRP:HA	2.44	0.52
1:DG:2:TYR:CB	1:DH:100:SER:HB2	2.40	0.52
1:DI:55:GLU:OE2	1:DJ:140:TRP:NE1	2.43	0.52
1:DK:111:VAL:HG12	1:DL:78:PHE:HB3	1.92	0.52
1:DY:126:PHE:CD2	1:DY:128:LEU:HG	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EP:72:ASN:O	1:EP:72:ASN:ND2	2.32	0.52
1:EQ:102:ASP:HB3	1:EQ:105:THR:O	2.09	0.52
1:FP:59:PHE:HD1	1:FP:90:ILE:HG12	1.74	0.52
1:GE:53:GLN:NE2	1:GE:97:ARG:HB3	2.25	0.52
1:GJ:126:PHE:CD2	1:GJ:128:LEU:HG	2.45	0.52
1:GS:72:ASN:O	1:GT:95:ILE:HD11	2.09	0.52
1:HC:142:ILE:HG23	1:HD:142:ILE:HD13	1.91	0.52
1:HM:107:LEU:HD23	1:HM:108:PRO:O	2.10	0.52
1:HX:2:TYR:HA	1:HY:100:SER:HB3	1.92	0.52
1:HY:75:ASN:HB3	1:HY:78:PHE:CE2	2.44	0.52
1:HZ:126:PHE:CD2	1:HZ:128:LEU:HG	2.45	0.52
1:AA:55:GLU:OE2	1:AB:140:TRP:NE1	2.42	0.52
1:AS:78:PHE:HD1	1:AT:110:ILE:O	1.93	0.52
1:AS:126:PHE:CD2	1:AS:128:LEU:HG	2.45	0.52
1:BA:107:LEU:HD23	1:BA:108:PRO:O	2.10	0.52
1:BK:101:THR:HA	1:BK:108:PRO:HA	1.92	0.52
1:BL:67:VAL:HG22	1:BL:83:SER:O	2.09	0.52
1:BL:153:VAL:HG22	1:BL:164:ILE:HG21	1.92	0.52
1:BO:37:GLN:OE1	1:BO:58:THR:HG21	2.10	0.52
1:CI:67:VAL:HG22	1:CI:83:SER:O	2.10	0.52
1:CL:2:TYR:HB3	1:CM:100:SER:HB2	1.91	0.52
1:CM:157:LEU:CG	1:CM:164:ILE:HD11	2.37	0.52
1:CT:99:GLN:HB2	1:CT:110:ILE:HG12	1.91	0.52
1:CZ:55:GLU:OE2	1:DA:140:TRP:NE1	2.42	0.52
1:DC:75:ASN:HB3	1:DC:78:PHE:CE2	2.44	0.52
1:DJ:85:GLY:HA2	1:DJ:125:ASP:H	1.75	0.52
1:DL:131:ASP:OD1	1:DM:51:LYS:HE3	2.09	0.52
1:DP:129:VAL:HG12	1:DP:134:ARG:HH21	1.74	0.52
1:DS:134:ARG:O	1:DS:137:THR:HG22	2.10	0.52
1:DT:53:GLN:NE2	1:DT:97:ARG:HB3	2.25	0.52
1:DX:75:ASN:HB3	1:DX:78:PHE:CE2	2.44	0.52
1:EA:44:TYR:OH	1:IB:166:GLY:N	2.35	0.52
1:EE:107:LEU:HD23	1:EE:108:PRO:O	2.10	0.52
1:ER:142:ILE:HG23	1:ES:142:ILE:HD13	1.92	0.52
1:ET:67:VAL:HG22	1:ET:83:SER:O	2.09	0.52
1:FA:111:VAL:HG12	1:FB:78:PHE:HB3	1.92	0.52
1:FK:142:ILE:HD13	1:FL:142:ILE:HG23	1.91	0.52
1:FT:116:TRP:CZ3	1:FU:67:VAL:HG13	2.42	0.52
1:FW:107:LEU:HD23	1:FW:108:PRO:O	2.10	0.52
1:FZ:114:PRO:HG2	1:GA:67:VAL:CG1	2.39	0.52
1:GH:113:CYS:HB2	1:GI:124:ALA:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GI:156:LYS:HB3	1:GI:161:VAL:HB	1.90	0.52
1:GJ:67:VAL:HG22	1:GJ:83:SER:O	2.09	0.52
1:GT:107:LEU:HD23	1:GT:108:PRO:O	2.09	0.52
1:HP:77:THR:OG1	1:HY:82:SER:OG	2.22	0.52
1:HU:102:ASP:HB2	1:HU:109:VAL:HG23	1.92	0.52
1:IB:156:LYS:HB3	1:IB:161:VAL:HB	1.91	0.52
1:AA:2:TYR:CB	1:AB:100:SER:HB2	2.40	0.52
1:AD:107:LEU:HD23	1:AD:108:PRO:O	2.10	0.52
1:AF:107:LEU:HD23	1:AF:108:PRO:O	2.10	0.52
1:AG:72:ASN:O	1:AH:95:ILE:HD11	2.09	0.52
1:AQ:67:VAL:HG22	1:AQ:83:SER:O	2.09	0.52
1:AS:55:GLU:OE2	1:AT:140:TRP:NE1	2.43	0.52
1:AS:67:VAL:HG22	1:AS:83:SER:O	2.10	0.52
1:BO:59:PHE:HD1	1:BO:90:ILE:HG12	1.74	0.52
1:BP:55:GLU:OE1	1:GL:8:TYR:CE1	2.63	0.52
1:BR:157:LEU:CG	1:BR:164:ILE:HD11	2.38	0.52
1:BU:33:MET:HE3	1:BU:45:MET:HB2	1.90	0.52
1:BW:32:TYR:HE1	1:BW:42:ALA:HB1	1.75	0.52
1:CF:102:ASP:HB3	1:CF:105:THR:O	2.09	0.52
1:CN:55:GLU:OE2	1:CO:140:TRP:NE1	2.43	0.52
1:CP:2:TYR:HB3	1:CQ:100:SER:HB2	1.92	0.52
1:CT:140:TRP:NE1	1:CU:55:GLU:OE2	2.42	0.52
1:DE:59:PHE:HD1	1:DE:90:ILE:HG12	1.74	0.52
1:DF:109:VAL:HG21	1:EU:105:THR:HG21	1.90	0.52
1:DO:114:PRO:HG2	1:DP:67:VAL:CG1	2.39	0.52
1:EA:53:GLN:NE2	1:EA:97:ARG:HB3	2.24	0.52
1:EG:101:THR:HA	1:EG:108:PRO:HA	1.92	0.52
1:EN:144:GLN:HA	1:EO:23:GLN:HB2	1.92	0.52
1:EU:59:PHE:HD1	1:EU:90:ILE:HG12	1.74	0.52
1:EU:129:VAL:HG23	1:EU:134:ARG:HH22	1.73	0.52
1:FB:157:LEU:HG	1:FB:164:ILE:HD11	1.91	0.52
1:FJ:75:ASN:HB3	1:FJ:78:PHE:HD2	1.75	0.52
1:FT:55:GLU:OE2	1:FU:140:TRP:NE1	2.43	0.52
1:FY:107:LEU:HD23	1:FY:108:PRO:O	2.09	0.52
1:GM:2:TYR:CB	1:GN:100:SER:HB2	2.40	0.52
1:GM:55:GLU:OE2	1:GN:140:TRP:NE1	2.42	0.52
1:GP:85:GLY:HA2	1:GP:125:ASP:H	1.75	0.52
1:GQ:116:TRP:CZ3	1:GR:67:VAL:HG13	2.31	0.52
1:GT:101:THR:HA	1:GT:108:PRO:HA	1.92	0.52
1:GU:114:PRO:HG2	1:GV:67:VAL:CG1	2.39	0.52
1:HH:55:GLU:OE2	1:HI:140:TRP:NE1	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HJ:112:ASP:O	1:HK:76:GLN:NE2	2.30	0.52
1:HM:43:THR:HG23	1:HM:58:THR:OG1	2.10	0.52
1:HM:157:LEU:HG	1:HM:164:ILE:HD11	1.92	0.52
1:HZ:8:TYR:HE1	1:IA:55:GLU:OE1	1.92	0.52
1:AD:85:GLY:HA2	1:AD:125:ASP:H	1.75	0.52
1:AF:43:THR:HG23	1:AF:58:THR:OG1	2.10	0.52
1:AI:114:PRO:HG2	1:AJ:67:VAL:CG1	2.39	0.52
1:AI:116:TRP:CZ3	1:AJ:67:VAL:HG13	2.34	0.52
1:AN:51:LYS:HE3	1:DG:86:THR:OG1	2.10	0.52
1:AV:4:GLN:HB3	1:AW:98:THR:HA	1.91	0.52
1:BS:82:SER:HB3	1:CF:75:ASN:HB2	1.91	0.52
1:CJ:129:VAL:HG23	1:CJ:134:ARG:HH22	1.73	0.52
1:CK:129:VAL:HG23	1:CK:134:ARG:NH2	2.25	0.52
1:CL:4:GLN:HB3	1:CM:98:THR:HA	1.91	0.52
1:CS:107:LEU:HD23	1:CS:108:PRO:O	2.09	0.52
1:CZ:142:ILE:HD13	1:DA:142:ILE:HG23	1.91	0.52
1:DJ:107:LEU:HD23	1:DJ:108:PRO:O	2.10	0.52
1:DK:2:TYR:HB3	1:DL:100:SER:HB2	1.92	0.52
1:DW:2:TYR:HA	1:DX:100:SER:HB3	1.92	0.52
1:DZ:59:PHE:HD1	1:DZ:90:ILE:HG12	1.74	0.52
1:EB:51:LYS:NZ	1:EW:155:SER:OG	2.22	0.52
1:EE:85:GLY:HA2	1:EE:125:ASP:H	1.75	0.52
1:EE:125:ASP:O	1:EG:75:ASN:ND2	2.44	0.52
1:EH:32:TYR:HE1	1:EH:42:ALA:HB1	1.75	0.52
1:ET:78:PHE:HD1	1:EU:110:ILE:O	1.93	0.52
1:EW:55:GLU:OE2	1:EX:140:TRP:NE1	2.42	0.52
1:FB:107:LEU:HD23	1:FB:108:PRO:O	2.10	0.52
1:FC:72:ASN:O	1:FD:95:ILE:HD11	2.09	0.52
1:FI:134:ARG:O	1:FI:137:THR:HG22	2.10	0.52
1:FK:72:ASN:O	1:FK:72:ASN:ND2	2.32	0.52
1:FO:55:GLU:OE2	1:FP:140:TRP:NE1	2.42	0.52
1:FO:78:PHE:HD1	1:FP:110:ILE:O	1.93	0.52
1:FO:126:PHE:CD2	1:FO:128:LEU:HG	2.45	0.52
1:GE:102:ASP:HB2	1:GE:109:VAL:HG23	1.92	0.52
1:GJ:55:GLU:OE2	1:GK:140:TRP:NE1	2.42	0.52
1:GQ:2:TYR:HB3	1:GR:100:SER:HB2	1.92	0.52
1:GR:131:ASP:OD1	1:GS:51:LYS:HE3	2.09	0.52
1:GV:51:LYS:NZ	1:HD:131:ASP:OD1	2.38	0.52
1:HA:85:GLY:HA2	1:HA:125:ASP:HB2	1.92	0.52
1:HC:153:VAL:HG22	1:HC:164:ILE:HG21	1.92	0.52
1:HH:2:TYR:CB	1:HI:100:SER:HB2	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HT:134:ARG:O	1:HT:137:THR:HG22	2.10	0.52
1:AF:101:THR:HA	1:AF:108:PRO:HA	1.92	0.51
1:AO:63:LYS:NZ	1:AO:125:ASP:OD2	2.41	0.51
1:AT:53:GLN:NE2	1:AT:97:ARG:HB3	2.24	0.51
1:AZ:111:VAL:HG12	1:BA:78:PHE:HB3	1.92	0.51
1:CG:153:VAL:HG22	1:CG:164:ILE:HG21	1.92	0.51
1:CH:75:ASN:HB3	1:CH:78:PHE:CE2	2.44	0.51
1:CM:75:ASN:HD22	1:DH:82:SER:C	2.13	0.51
1:CO:85:GLY:HA2	1:CO:125:ASP:H	1.75	0.51
1:CW:159:SER:OG	1:DC:47:THR:HB	2.10	0.51
1:DF:22:TYR:CD2	1:EV:140:TRP:HA	2.45	0.51
1:DK:33:MET:CE	1:DK:45:MET:HB2	2.40	0.51
1:EF:33:MET:CE	1:EF:45:MET:HB2	2.40	0.51
1:FA:2:TYR:HB3	1:FB:100:SER:HB2	1.92	0.51
1:FJ:53:GLN:NE2	1:FJ:97:ARG:HB3	2.25	0.51
1:FJ:102:ASP:HB2	1:FJ:109:VAL:HG23	1.92	0.51
1:FK:63:LYS:NZ	1:FK:125:ASP:OD2	2.41	0.51
1:GK:59:PHE:HD1	1:GK:90:ILE:HG12	1.75	0.51
1:GK:138:ILE:O	1:GK:142:ILE:HG13	2.11	0.51
1:GV:129:VAL:HG12	1:GV:134:ARG:HH21	1.73	0.51
1:HU:75:ASN:HB3	1:HU:78:PHE:HD2	1.75	0.51
1:HZ:55:GLU:OE2	1:IA:140:TRP:NE1	2.42	0.51
1:AN:102:ASP:HB2	1:AN:109:VAL:HG23	1.92	0.51
1:AS:8:TYR:HE1	1:AT:55:GLU:OE1	1.93	0.51
1:AU:22:TYR:CE1	1:HG:11:PRO:HD2	2.45	0.51
1:BS:99:GLN:HB2	1:BS:110:ILE:HG12	1.92	0.51
1:BX:101:THR:HA	1:BX:108:PRO:HA	1.92	0.51
1:CE:142:ILE:HD13	1:CF:142:ILE:HG23	1.91	0.51
1:CI:126:PHE:CD2	1:CI:128:LEU:HG	2.45	0.51
1:CK:142:ILE:CG2	1:FQ:142:ILE:HD13	2.39	0.51
1:CX:144:GLN:HA	1:CY:23:GLN:HB2	1.93	0.51
1:DF:113:CYS:HB2	1:EV:124:ALA:HB3	1.92	0.51
1:DS:144:GLN:HA	1:DT:23:GLN:HB2	1.93	0.51
1:DY:8:TYR:HE1	1:DZ:55:GLU:OE1	1.93	0.51
1:EB:2:TYR:CB	1:EC:100:SER:HB2	2.40	0.51
1:EF:111:VAL:HG12	1:EG:78:PHE:HB3	1.92	0.51
1:EJ:99:GLN:HB2	1:EJ:110:ILE:HG12	1.91	0.51
1:EO:51:LYS:HE3	1:HH:86:THR:OG1	2.10	0.51
1:EQ:104:ASN:O	1:HO:103:VAL:HG23	2.09	0.51
1:GJ:78:PHE:HD1	1:GK:110:ILE:O	1.93	0.51
1:GK:37:GLN:OE1	1:GK:58:THR:HG21	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GP:125:ASP:O	1:GR:75:ASN:ND2	2.44	0.51
1:GQ:26:LEU:HD13	1:GR:144:GLN:OE1	2.11	0.51
1:GR:107:LEU:HD23	1:GR:108:PRO:O	2.10	0.51
1:GX:159:SER:OG	1:HD:47:THR:HB	2.10	0.51
1:GY:134:ARG:O	1:GY:137:THR:HG22	2.10	0.51
1:HG:164:ILE:HG22	1:HG:165:TYR:CD1	2.46	0.51
1:HH:2:TYR:HB3	1:HI:100:SER:HB2	1.91	0.51
1:HJ:99:GLN:HB2	1:HJ:110:ILE:HG12	1.93	0.51
1:IB:129:VAL:HG23	1:IB:134:ARG:NH2	2.25	0.51
1:AE:2:TYR:HB3	1:AF:100:SER:HB2	1.92	0.51
1:AU:164:ILE:HG22	1:AU:165:TYR:CD1	2.46	0.51
1:AY:97:ARG:HA	1:AY:112:ASP:CB	2.41	0.51
1:BN:98:THR:HG23	1:BO:4:GLN:HB3	1.93	0.51
1:BP:22:TYR:CD2	1:GL:140:TRP:HA	2.45	0.51
1:BP:164:ILE:HG22	1:BP:165:TYR:CD1	2.46	0.51
1:BT:125:ASP:O	1:BV:75:ASN:ND2	2.44	0.51
1:CF:101:THR:HA	1:CF:108:PRO:HA	1.91	0.51
1:CH:29:LYS:O	1:CH:47:THR:OG1	2.21	0.51
1:CP:33:MET:CE	1:CP:45:MET:HB2	2.40	0.51
1:CW:85:GLY:HA2	1:CW:125:ASP:H	1.73	0.51
1:CZ:142:ILE:HG23	1:DA:142:ILE:HD13	1.93	0.51
1:DC:81:SER:HG	1:DC:126:PHE:HE1	1.58	0.51
1:DN:101:THR:HA	1:DN:108:PRO:HA	1.93	0.51
1:DU:142:ILE:HD13	1:DV:142:ILE:HG23	1.91	0.51
1:DV:101:THR:HA	1:DV:108:PRO:HA	1.92	0.51
1:DW:142:ILE:HG23	1:DX:142:ILE:HD13	1.92	0.51
1:DW:144:GLN:HA	1:DX:23:GLN:HB2	1.93	0.51
1:DY:67:VAL:HG22	1:DY:83:SER:O	2.09	0.51
1:DZ:138:ILE:O	1:DZ:142:ILE:HG13	2.11	0.51
1:ED:82:SER:HB3	1:EQ:75:ASN:HB2	1.91	0.51
1:EF:26:LEU:HD13	1:EG:144:GLN:OE1	2.11	0.51
1:ES:75:ASN:HB3	1:ES:78:PHE:CE2	2.44	0.51
1:FA:33:MET:CE	1:FA:45:MET:HB2	2.40	0.51
1:FB:131:ASP:OD1	1:FC:51:LYS:HE3	2.09	0.51
1:FI:40:ASN:OD1	1:FJ:162:THR:HG21	2.11	0.51
1:FY:101:THR:HA	1:FY:108:PRO:HA	1.93	0.51
1:GC:159:SER:OG	1:GI:47:THR:HB	2.10	0.51
1:GD:40:ASN:OD1	1:GE:162:THR:HG21	2.11	0.51
1:GL:129:VAL:HG23	1:GL:134:ARG:NH2	2.25	0.51
1:GO:128:LEU:HD22	1:GP:98:THR:HG21	1.91	0.51
1:GR:51:LYS:NZ	1:HW:131:ASP:OD2	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GZ:53:GLN:NE2	1:GZ:97:ARG:HB3	2.25	0.51
1:HF:37:GLN:OE1	1:HF:58:THR:HG21	2.10	0.51
1:HW:102:ASP:HB3	1:HW:105:THR:O	2.09	0.51
1:HX:113:CYS:HB2	1:HY:124:ALA:HB3	1.91	0.51
1:HZ:78:PHE:HD1	1:IA:110:ILE:O	1.93	0.51
1:AA:136:SER:HG	1:AB:22:TYR:HH	1.54	0.51
1:AC:55:GLU:OE2	1:AD:140:TRP:NE1	2.43	0.51
1:AK:142:ILE:HG23	1:AL:142:ILE:HD13	1.91	0.51
1:AQ:113:CYS:HB2	1:AR:124:ALA:HB3	1.91	0.51
1:AW:157:LEU:CG	1:AW:164:ILE:HD11	2.37	0.51
1:BC:101:THR:HA	1:BC:108:PRO:HA	1.92	0.51
1:BH:134:ARG:O	1:BH:137:THR:HG22	2.10	0.51
1:BK:102:ASP:HB3	1:BK:105:THR:O	2.09	0.51
1:BN:67:VAL:HG22	1:BN:83:SER:O	2.10	0.51
1:BN:126:PHE:CD2	1:BN:128:LEU:HG	2.45	0.51
1:BP:156:LYS:HB3	1:BP:161:VAL:HB	1.90	0.51
1:BT:107:LEU:HD23	1:BT:108:PRO:O	2.10	0.51
1:BT:138:ILE:O	1:BT:142:ILE:HG13	2.11	0.51
1:BV:101:THR:HA	1:BV:108:PRO:HA	1.92	0.51
1:DB:2:TYR:HA	1:DC:100:SER:HB3	1.92	0.51
1:DD:126:PHE:CD2	1:DD:128:LEU:HG	2.45	0.51
1:DL:43:THR:HG23	1:DL:58:THR:OG1	2.10	0.51
1:DL:101:THR:HA	1:DL:108:PRO:HA	1.92	0.51
1:DW:67:VAL:HG22	1:DW:83:SER:O	2.09	0.51
1:ED:55:GLU:OE2	1:EE:140:TRP:NE1	2.43	0.51
1:EK:51:LYS:HZ1	1:ES:131:ASP:CG	2.13	0.51
1:EZ:97:ARG:HA	1:EZ:112:ASP:CB	2.41	0.51
1:FT:72:ASN:O	1:FU:95:ILE:HD11	2.11	0.51
1:FX:29:LYS:O	1:FX:47:THR:OG1	2.20	0.51
1:GD:134:ARG:O	1:GD:137:THR:HG22	2.10	0.51
1:GH:153:VAL:HG22	1:GH:164:ILE:HG21	1.92	0.51
1:GM:4:GLN:HB3	1:GN:98:THR:HA	1.91	0.51
1:GP:107:LEU:HD23	1:GP:108:PRO:O	2.10	0.51
1:GY:144:GLN:HA	1:GZ:23:GLN:HB2	1.92	0.51
1:HE:78:PHE:HD1	1:HF:110:ILE:O	1.93	0.51
1:HF:53:GLN:NE2	1:HF:97:ARG:HB3	2.24	0.51
1:HL:26:LEU:HD13	1:HM:144:GLN:OE1	2.11	0.51
1:HT:40:ASN:OD1	1:HU:162:THR:HG21	2.11	0.51
1:HX:142:ILE:HG23	1:HY:142:ILE:HD13	1.92	0.51
1:AC:116:TRP:CZ3	1:AD:67:VAL:HG13	2.42	0.51
1:AE:26:LEU:HD13	1:AF:144:GLN:OE1	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AQ:142:ILE:HG23	1:AR:142:ILE:HD13	1.91	0.51
1:AU:117:THR:HG22	1:HG:141:MET:HE3	1.92	0.51
1:AX:55:GLU:OE2	1:AY:140:TRP:NE1	2.43	0.51
1:AY:125:ASP:O	1:BA:75:ASN:ND2	2.44	0.51
1:AY:138:ILE:O	1:AY:142:ILE:HG13	2.11	0.51
1:BA:157:LEU:HG	1:BA:164:ILE:HD11	1.91	0.51
1:BL:142:ILE:HG23	1:BM:142:ILE:HD13	1.91	0.51
1:BQ:2:TYR:CB	1:BR:100:SER:HB2	2.40	0.51
1:BV:43:THR:HG23	1:BV:58:THR:OG1	2.10	0.51
1:CC:101:THR:HA	1:CC:108:PRO:HA	1.93	0.51
1:CC:144:GLN:HA	1:CD:23:GLN:HB2	1.92	0.51
1:CD:53:GLN:NE2	1:CD:97:ARG:HB3	2.25	0.51
1:CE:85:GLY:HA2	1:CE:125:ASP:HB2	1.92	0.51
1:CG:22:TYR:CD2	1:CH:140:TRP:HA	2.44	0.51
1:CI:98:THR:HG23	1:CJ:4:GLN:HB3	1.93	0.51
1:CQ:107:LEU:HD23	1:CQ:108:PRO:O	2.10	0.51
1:CY:75:ASN:HB3	1:CY:78:PHE:HD2	1.75	0.51
1:CZ:63:LYS:NZ	1:CZ:125:ASP:OD2	2.41	0.51
1:CZ:72:ASN:O	1:CZ:72:ASN:ND2	2.32	0.51
1:DB:67:VAL:HG22	1:DB:83:SER:O	2.09	0.51
1:DM:29:LYS:O	1:DM:47:THR:OG1	2.20	0.51
1:DU:85:GLY:HA2	1:DU:125:ASP:HB2	1.92	0.51
1:EC:127:THR:HG21	1:HH:110:ILE:CD1	2.41	0.51
1:EF:2:TYR:CD2	1:EN:106:GLY:HA3	2.46	0.51
1:EO:53:GLN:NE2	1:EO:97:ARG:HB3	2.25	0.51
1:EO:126:PHE:CD2	1:EO:128:LEU:HG	2.46	0.51
1:ER:22:TYR:CD2	1:ES:140:TRP:HA	2.45	0.51
1:ET:126:PHE:CD2	1:ET:128:LEU:HG	2.45	0.51
1:EX:75:ASN:ND2	1:FS:84:LYS:N	2.47	0.51
1:FA:2:TYR:CD2	1:FI:106:GLY:HA3	2.46	0.51
1:FB:43:THR:HG23	1:FB:58:THR:OG1	2.10	0.51
1:FM:2:TYR:HA	1:FN:100:SER:HB3	1.92	0.51
1:FP:37:GLN:OE1	1:FP:58:THR:HG21	2.10	0.51
1:FX:72:ASN:O	1:FY:95:ILE:HD11	2.09	0.51
1:GB:29:LYS:O	1:GB:47:THR:OG1	2.20	0.51
1:GO:82:SER:HB3	1:HB:75:ASN:HB2	1.91	0.51
1:GP:97:ARG:HA	1:GP:112:ASP:CB	2.41	0.51
1:GP:138:ILE:O	1:GP:142:ILE:HG13	2.11	0.51
1:HE:55:GLU:OE2	1:HF:140:TRP:NE1	2.42	0.51
1:HL:111:VAL:HG12	1:HM:78:PHE:HB3	1.92	0.51
1:AD:97:ARG:HA	1:AD:112:ASP:CB	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:33:MET:CE	1:AE:45:MET:HB2	2.40	0.51
1:AN:126:PHE:CD2	1:AN:128:LEU:HG	2.46	0.51
1:AQ:153:VAL:HG22	1:AQ:164:ILE:HG21	1.92	0.51
1:AZ:2:TYR:CD2	1:BH:106:GLY:HA3	2.46	0.51
1:BS:116:TRP:CZ3	1:BT:67:VAL:HG13	2.42	0.51
1:BW:33:MET:CE	1:BW:45:MET:HB2	2.41	0.51
1:CN:99:GLN:HB2	1:CN:110:ILE:HG12	1.92	0.51
1:CO:107:LEU:HD23	1:CO:108:PRO:O	2.10	0.51
1:CO:125:ASP:O	1:CQ:75:ASN:ND2	2.44	0.51
1:CP:2:TYR:CD2	1:CX:106:GLY:HA3	2.46	0.51
1:CQ:43:THR:HG23	1:CQ:58:THR:OG1	2.10	0.51
1:CR:67:VAL:HG22	1:CR:83:SER:O	2.11	0.51
1:CX:110:ILE:O	1:CY:78:PHE:HD1	1.94	0.51
1:DB:144:GLN:HA	1:DC:23:GLN:HB2	1.93	0.51
1:DD:67:VAL:HG22	1:DD:83:SER:O	2.10	0.51
1:DE:53:GLN:NE2	1:DE:97:ARG:HB3	2.24	0.51
1:DF:124:ALA:HB3	1:EV:113:CYS:HB2	1.93	0.51
1:DT:126:PHE:CD2	1:DT:128:LEU:HG	2.46	0.51
1:DU:138:ILE:O	1:DU:142:ILE:HG13	2.11	0.51
1:EE:138:ILE:O	1:EE:142:ILE:HG13	2.11	0.51
1:EN:134:ARG:O	1:EN:137:THR:HG22	2.10	0.51
1:EP:142:ILE:HG23	1:EQ:142:ILE:HD13	1.92	0.51
1:EW:2:TYR:CB	1:EX:100:SER:HB2	2.40	0.51
1:EY:55:GLU:OE2	1:EZ:140:TRP:NE1	2.43	0.51
1:EY:99:GLN:HB2	1:EY:110:ILE:HG12	1.92	0.51
1:FE:140:TRP:NE1	1:FF:55:GLU:OE2	2.42	0.51
1:FH:159:SER:OG	1:FN:47:THR:HB	2.10	0.51
1:FI:22:TYR:CD2	1:FJ:140:TRP:HA	2.46	0.51
1:FI:144:GLN:HA	1:FJ:23:GLN:HB2	1.92	0.51
1:FK:142:ILE:HG23	1:FL:142:ILE:HD13	1.92	0.51
1:FR:4:GLN:HB3	1:FS:98:THR:HA	1.91	0.51
1:FT:99:GLN:HB2	1:FT:110:ILE:HG12	1.93	0.51
1:FY:85:GLY:HA2	1:FY:125:ASP:H	1.76	0.51
1:GW:142:ILE:HG23	1:GX:142:ILE:HD13	1.91	0.51
1:GZ:126:PHE:CD2	1:GZ:128:LEU:HG	2.46	0.51
1:HA:72:ASN:O	1:HA:72:ASN:ND2	2.32	0.51
1:HA:142:ILE:HD13	1:HB:142:ILE:HG23	1.91	0.51
1:HM:101:THR:HA	1:HM:108:PRO:HA	1.92	0.51
1:IA:138:ILE:O	1:IA:142:ILE:HG13	2.11	0.51
1:AB:82:SER:HB2	1:DH:75:ASN:CB	2.41	0.51
1:AG:67:VAL:HG22	1:AG:83:SER:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:144:GLN:HA	1:AN:23:GLN:HB2	1.92	0.51
1:AT:37:GLN:OE1	1:AT:58:THR:HG21	2.10	0.51
1:AV:2:TYR:CB	1:AW:100:SER:HB2	2.40	0.51
1:AZ:33:MET:CE	1:AZ:45:MET:HB2	2.40	0.51
1:BQ:136:SER:HG	1:BR:22:TYR:HH	1.54	0.51
1:BU:2:TYR:CD2	1:CC:106:GLY:HA3	2.46	0.51
1:CE:138:ILE:O	1:CE:142:ILE:HG13	2.11	0.51
1:CI:8:TYR:HE1	1:CJ:55:GLU:OE1	1.92	0.51
1:CJ:59:PHE:HD1	1:CJ:90:ILE:HG12	1.74	0.51
1:CX:134:ARG:O	1:CX:137:THR:HG22	2.10	0.51
1:DD:98:THR:HG23	1:DE:4:GLN:HB3	1.93	0.51
1:DK:26:LEU:HD13	1:DL:144:GLN:OE1	2.11	0.51
1:DL:157:LEU:HG	1:DL:164:ILE:HD11	1.92	0.51
1:DM:72:ASN:O	1:DN:95:ILE:HD11	2.09	0.51
1:DO:99:GLN:HB2	1:DO:110:ILE:HG12	1.91	0.51
1:DR:159:SER:OG	1:DX:47:THR:HB	2.09	0.51
1:DU:142:ILE:HG23	1:DV:142:ILE:HD13	1.93	0.51
1:DX:81:SER:HG	1:DX:126:PHE:HE1	1.58	0.51
1:EI:101:THR:HA	1:EI:108:PRO:HA	1.92	0.51
1:EN:22:TYR:CD2	1:EO:140:TRP:HA	2.46	0.51
1:EN:40:ASN:OD1	1:EO:162:THR:HG21	2.11	0.51
1:EO:102:ASP:HB2	1:EO:109:VAL:HG23	1.92	0.51
1:EP:138:ILE:O	1:EP:142:ILE:HG13	2.11	0.51
1:EQ:101:THR:HA	1:EQ:108:PRO:HA	1.92	0.51
1:ER:144:GLN:HA	1:ES:23:GLN:HB2	1.93	0.51
1:EU:138:ILE:O	1:EU:142:ILE:HG13	2.11	0.51
1:FO:98:THR:HG23	1:FP:4:GLN:HB3	1.93	0.51
1:FV:2:TYR:CD2	1:GD:106:GLY:HA3	2.46	0.51
1:FW:157:LEU:HG	1:FW:164:ILE:HD11	1.92	0.51
1:FZ:140:TRP:NE1	1:GA:55:GLU:OE2	2.42	0.51
1:GF:85:GLY:HA2	1:GF:125:ASP:HB2	1.92	0.51
1:GF:138:ILE:O	1:GF:142:ILE:HG13	2.11	0.51
1:GF:142:ILE:HG23	1:GG:142:ILE:HD13	1.92	0.51
1:GY:40:ASN:OD1	1:GZ:162:THR:HG21	2.11	0.51
1:HJ:72:ASN:O	1:HK:95:ILE:HD11	2.11	0.51
1:HP:29:LYS:O	1:HP:47:THR:OG1	2.19	0.51
1:AD:125:ASP:O	1:AF:75:ASN:ND2	2.44	0.51
1:AG:2:TYR:HD2	1:BK:106:GLY:HA3	1.76	0.51
1:AG:32:TYR:HE1	1:AG:42:ALA:HB1	1.75	0.51
1:BB:33:MET:CE	1:BB:45:MET:HB2	2.41	0.51
1:BE:104:ASN:ND2	1:FF:104:ASN:ND2	2.57	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BH:110:ILE:HB	1:BI:78:PHE:CE1	2.46	0.51
1:BJ:142:ILE:HG23	1:BK:142:ILE:HD13	1.92	0.51
1:BU:26:LEU:HD13	1:BV:144:GLN:OE1	2.10	0.51
1:CC:22:TYR:CD2	1:CD:140:TRP:HA	2.46	0.51
1:CC:134:ARG:O	1:CC:137:THR:HG22	2.10	0.51
1:CM:85:GLY:HA2	1:CM:125:ASP:H	1.76	0.51
1:CZ:138:ILE:O	1:CZ:142:ILE:HG13	2.11	0.51
1:DC:126:PHE:HD2	1:DC:128:LEU:HG	1.76	0.51
1:DF:164:ILE:HG22	1:DF:165:TYR:CD1	2.46	0.51
1:DS:110:ILE:HB	1:DT:78:PHE:CE1	2.46	0.51
1:EA:164:ILE:HG22	1:EA:165:TYR:CD1	2.46	0.51
1:EH:67:VAL:HG22	1:EH:83:SER:O	2.11	0.51
1:ER:113:CYS:HB2	1:ES:124:ALA:HB3	1.91	0.51
1:EX:85:GLY:HA2	1:EX:125:ASP:H	1.76	0.51
1:FD:85:GLY:HA2	1:FD:125:ASP:H	1.76	0.51
1:FI:110:ILE:HB	1:FJ:78:PHE:CE1	2.46	0.51
1:FK:85:GLY:HA2	1:FK:125:ASP:HB2	1.92	0.51
1:FQ:129:VAL:HG23	1:FQ:134:ARG:NH2	2.25	0.51
1:FU:97:ARG:HA	1:FU:112:ASP:CB	2.41	0.51
1:FY:68:TYR:CD1	1:FY:73:VAL:HG21	2.46	0.51
1:GL:164:ILE:HG22	1:GL:165:TYR:CD1	2.46	0.51
1:GM:2:TYR:HB3	1:GN:100:SER:HB2	1.91	0.51
1:HA:138:ILE:O	1:HA:142:ILE:HG13	2.11	0.51
1:HA:142:ILE:HG23	1:HB:142:ILE:HD13	1.92	0.51
1:HC:113:CYS:HB2	1:HD:124:ALA:HB3	1.91	0.51
1:HK:125:ASP:O	1:HM:75:ASN:ND2	2.44	0.51
1:HL:2:TYR:CD2	1:HT:106:GLY:HA3	2.46	0.51
1:HL:33:MET:CE	1:HL:45:MET:HB2	2.40	0.51
1:HO:101:THR:HA	1:HO:108:PRO:HA	1.92	0.51
1:HT:144:GLN:HA	1:HU:23:GLN:HB2	1.92	0.51
1:HU:126:PHE:CD2	1:HU:128:LEU:HG	2.46	0.51
1:AH:68:TYR:CD1	1:AH:73:VAL:HG21	2.46	0.51
1:AH:101:THR:HA	1:AH:108:PRO:HA	1.92	0.51
1:AM:110:ILE:HB	1:AN:78:PHE:CE1	2.46	0.51
1:AU:102:ASP:HA	1:HF:105:THR:HG22	1.93	0.51
1:AY:107:LEU:HD23	1:AY:108:PRO:O	2.10	0.51
1:BA:43:THR:HG23	1:BA:58:THR:OG1	2.11	0.51
1:BC:68:TYR:CD1	1:BC:73:VAL:HG21	2.46	0.51
1:BI:53:GLN:NE2	1:BI:97:ARG:HB3	2.25	0.51
1:BJ:78:PHE:CD1	1:BK:110:ILE:HB	2.46	0.51
1:BP:129:VAL:HG23	1:BP:134:ARG:NH2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BU:111:VAL:HG12	1:BV:78:PHE:HB3	1.92	0.51
1:BV:107:LEU:HD23	1:BV:108:PRO:O	2.10	0.51
1:BW:67:VAL:HG22	1:BW:83:SER:O	2.11	0.51
1:BY:77:THR:OG1	1:CH:82:SER:OG	2.21	0.51
1:CA:142:ILE:HG23	1:CB:142:ILE:HD13	1.91	0.51
1:CA:142:ILE:HD13	1:CB:142:ILE:HG23	1.93	0.51
1:CD:102:ASP:HB2	1:CD:109:VAL:HG23	1.92	0.51
1:DC:29:LYS:O	1:DC:47:THR:OG1	2.21	0.51
1:DI:116:TRP:CZ3	1:DJ:67:VAL:HG13	2.42	0.51
1:DS:22:TYR:CD2	1:DT:140:TRP:HA	2.46	0.51
1:EA:129:VAL:HG23	1:EA:134:ARG:NH2	2.25	0.51
1:ED:72:ASN:O	1:EE:95:ILE:HD11	2.11	0.51
1:EG:43:THR:HG23	1:EG:58:THR:OG1	2.10	0.51
1:ES:126:PHE:HD2	1:ES:128:LEU:HG	1.76	0.51
1:EX:76:GLN:O	1:FS:81:SER:CB	2.59	0.51
1:EX:103:VAL:HG23	1:GE:104:ASN:O	2.11	0.51
1:FQ:164:ILE:HG22	1:FQ:165:TYR:CD1	2.46	0.51
1:FR:2:TYR:HB3	1:FS:100:SER:HB2	1.91	0.51
1:FU:85:GLY:HA2	1:FU:125:ASP:H	1.75	0.51
1:FV:26:LEU:HD13	1:FW:144:GLN:OE1	2.10	0.51
1:FX:67:VAL:HG22	1:FX:83:SER:O	2.11	0.51
1:GD:22:TYR:CD2	1:GE:140:TRP:HA	2.46	0.51
1:GF:72:ASN:O	1:GF:72:ASN:ND2	2.32	0.51
1:GZ:102:ASP:HB2	1:GZ:109:VAL:HG23	1.92	0.51
1:HK:138:ILE:O	1:HK:142:ILE:HG13	2.11	0.51
1:HN:67:VAL:HG22	1:HN:83:SER:O	2.11	0.51
1:AB:107:LEU:HD23	1:AB:108:PRO:O	2.11	0.51
1:AB:157:LEU:CG	1:AB:164:ILE:HD11	2.38	0.51
1:AO:85:GLY:HA2	1:AO:125:ASP:HB2	1.92	0.51
1:BD:99:GLN:HB2	1:BD:110:ILE:HG12	1.91	0.51
1:BU:33:MET:CE	1:BU:45:MET:HB2	2.40	0.51
1:CJ:138:ILE:O	1:CJ:142:ILE:HG13	2.11	0.51
1:CP:26:LEU:HD13	1:CQ:144:GLN:OE1	2.11	0.51
1:CS:101:THR:HA	1:CS:108:PRO:HA	1.92	0.51
1:CZ:85:GLY:HA2	1:CZ:125:ASP:HB2	1.92	0.51
1:DE:138:ILE:O	1:DE:142:ILE:HG13	2.11	0.51
1:DF:142:ILE:HD13	1:EV:142:ILE:HG23	1.92	0.51
1:DZ:37:GLN:OE1	1:DZ:58:THR:HG21	2.10	0.51
1:DZ:85:GLY:HA2	1:DZ:125:ASP:HB2	1.94	0.51
1:EJ:55:GLU:OE2	1:EK:140:TRP:NE1	2.45	0.51
1:EP:78:PHE:CD1	1:EQ:110:ILE:HB	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EV:164:ILE:HG22	1:EV:165:TYR:CD1	2.46	0.51
1:EW:33:MET:HE3	1:EW:45:MET:HB2	1.93	0.51
1:EZ:125:ASP:O	1:FB:75:ASN:ND2	2.44	0.51
1:EZ:138:ILE:O	1:EZ:142:ILE:HG13	2.11	0.51
1:FA:33:MET:HE3	1:FA:45:MET:HB2	1.92	0.51
1:FB:51:LYS:HG2	1:GF:159:SER:OG	2.11	0.51
1:FM:144:GLN:HA	1:FN:23:GLN:HB2	1.93	0.51
1:FM:153:VAL:HG22	1:FM:164:ILE:HG21	1.92	0.51
1:FP:85:GLY:HA2	1:FP:125:ASP:HB2	1.93	0.51
1:GQ:33:MET:CE	1:GQ:45:MET:HB2	2.40	0.51
1:GS:33:MET:CE	1:GS:45:MET:HB2	2.41	0.51
1:HB:101:THR:HA	1:HB:108:PRO:HA	1.92	0.51
1:HC:2:TYR:HA	1:HD:100:SER:HB3	1.92	0.51
1:HJ:72:ASN:O	1:HJ:72:ASN:ND2	2.29	0.51
1:HK:107:LEU:HD23	1:HK:108:PRO:O	2.10	0.51
1:HT:22:TYR:CD2	1:HU:140:TRP:HA	2.46	0.51
1:HT:101:THR:HA	1:HT:108:PRO:HA	1.93	0.51
1:HV:138:ILE:O	1:HV:142:ILE:HG13	2.11	0.51
1:HX:144:GLN:HA	1:HY:23:GLN:HB2	1.93	0.51
1:AO:138:ILE:O	1:AO:142:ILE:HG13	2.11	0.50
1:AX:72:ASN:O	1:AY:95:ILE:HD11	2.11	0.50
1:AZ:26:LEU:HD13	1:BA:144:GLN:OE1	2.11	0.50
1:BB:67:VAL:HG22	1:BB:83:SER:O	2.11	0.50
1:BG:59:PHE:CD1	1:BG:90:ILE:HG12	2.47	0.50
1:BJ:85:GLY:HA2	1:BJ:125:ASP:HB2	1.92	0.50
1:BU:114:PRO:HG2	1:BV:67:VAL:CG1	2.41	0.50
1:CE:129:VAL:HG23	1:CE:134:ARG:NH2	2.27	0.50
1:CP:111:VAL:HG12	1:CQ:78:PHE:HB3	1.92	0.50
1:CV:33:MET:HE3	1:CV:45:MET:HB2	1.93	0.50
1:CX:40:ASN:OD1	1:CY:162:THR:HG21	2.11	0.50
1:CX:101:THR:HA	1:CX:108:PRO:HA	1.93	0.50
1:DH:107:LEU:HD23	1:DH:108:PRO:O	2.11	0.50
1:DI:72:ASN:O	1:DJ:95:ILE:HD11	2.11	0.50
1:DM:33:MET:CE	1:DM:45:MET:HB2	2.41	0.50
1:ET:98:THR:HG23	1:EU:4:GLN:HB3	1.93	0.50
1:EZ:52:ASP:OD1	1:EZ:97:ARG:NH2	2.37	0.50
1:EZ:85:GLY:HA2	1:EZ:125:ASP:H	1.75	0.50
1:FI:110:ILE:O	1:FJ:78:PHE:HD1	1.94	0.50
1:FJ:126:PHE:CD2	1:FJ:128:LEU:HG	2.46	0.50
1:FU:125:ASP:O	1:FW:75:ASN:ND2	2.44	0.50
1:FW:101:THR:HA	1:FW:108:PRO:HA	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FX:33:MET:CE	1:FX:45:MET:HB2	2.41	0.50
1:GE:126:PHE:CD2	1:GE:128:LEU:HG	2.46	0.50
1:GO:72:ASN:O	1:GO:72:ASN:ND2	2.29	0.50
1:GQ:111:VAL:HG12	1:GR:78:PHE:HB3	1.92	0.50
1:GR:157:LEU:HG	1:GR:164:ILE:HD11	1.92	0.50
1:HE:98:THR:HG23	1:HF:4:GLN:HB3	1.93	0.50
1:HL:2:TYR:HB3	1:HM:100:SER:HB2	1.92	0.50
1:HN:33:MET:CE	1:HN:45:MET:HB2	2.41	0.50
1:HT:110:ILE:HB	1:HU:78:PHE:CE1	2.46	0.50
1:HX:67:VAL:HG22	1:HX:83:SER:O	2.09	0.50
1:IB:164:ILE:HG22	1:IB:165:TYR:CD1	2.46	0.50
1:AS:134:ARG:NH1	1:FY:51:LYS:HD2	2.27	0.50
1:BE:51:LYS:HZ3	1:BM:131:ASP:CG	2.13	0.50
1:BH:144:GLN:HA	1:BI:23:GLN:HB2	1.92	0.50
1:BP:131:ASP:OD1	1:BP:134:ARG:NH1	2.45	0.50
1:BT:97:ARG:HA	1:BT:112:ASP:CB	2.41	0.50
1:CC:40:ASN:OD1	1:CD:162:THR:HG21	2.11	0.50
1:CC:110:ILE:O	1:CD:78:PHE:HD1	1.94	0.50
1:CG:144:GLN:HA	1:CH:23:GLN:HB2	1.93	0.50
1:CO:97:ARG:HA	1:CO:112:ASP:CB	2.41	0.50
1:CO:138:ILE:O	1:CO:142:ILE:HG13	2.11	0.50
1:CQ:157:LEU:HG	1:CQ:164:ILE:HD11	1.92	0.50
1:DF:55:GLU:OE2	1:EV:140:TRP:NE1	2.44	0.50
1:DI:99:GLN:HB2	1:DI:110:ILE:HG12	1.92	0.50
1:DJ:125:ASP:O	1:DL:75:ASN:ND2	2.44	0.50
1:DO:55:GLU:OE2	1:DP:140:TRP:NE1	2.44	0.50
1:DW:113:CYS:HB2	1:DX:124:ALA:HB3	1.92	0.50
1:EA:103:VAL:HG23	1:IA:104:ASN:O	2.10	0.50
1:ED:99:GLN:HB2	1:ED:110:ILE:HG12	1.92	0.50
1:EL:142:ILE:HD13	1:EM:142:ILE:HG23	1.93	0.50
1:EW:142:ILE:HG23	1:EX:142:ILE:HD13	1.94	0.50
1:FC:67:VAL:HG22	1:FC:83:SER:O	2.11	0.50
1:FO:85:GLY:HA2	1:FO:125:ASP:N	2.25	0.50
1:FT:112:ASP:O	1:FU:76:GLN:NE2	2.30	0.50
1:FU:107:LEU:HD23	1:FU:108:PRO:O	2.10	0.50
1:FV:2:TYR:HB3	1:FW:100:SER:HB2	1.92	0.50
1:GH:2:TYR:HA	1:GI:100:SER:HB3	1.92	0.50
1:GW:142:ILE:HD13	1:GX:142:ILE:HG23	1.93	0.50
1:HR:142:ILE:HD13	1:HS:142:ILE:HG23	1.93	0.50
1:AK:142:ILE:HD13	1:AL:142:ILE:HG23	1.93	0.50
1:AW:107:LEU:HD23	1:AW:108:PRO:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BB:140:TRP:NE1	1:BC:55:GLU:OE2	2.45	0.50
1:BJ:138:ILE:O	1:BJ:142:ILE:HG13	2.11	0.50
1:BN:78:PHE:HD1	1:BO:110:ILE:O	1.93	0.50
1:BQ:26:LEU:O	1:BQ:30:ALA:HB2	2.12	0.50
1:BR:75:ASN:ND2	1:CM:84:LYS:H	2.10	0.50
1:BY:55:GLU:OE2	1:BZ:140:TRP:NE1	2.45	0.50
1:CE:142:ILE:HG23	1:CF:142:ILE:HD13	1.92	0.50
1:CJ:85:GLY:HA2	1:CJ:125:ASP:HB2	1.94	0.50
1:CK:164:ILE:HG22	1:CK:165:TYR:CD1	2.46	0.50
1:CL:26:LEU:O	1:CL:30:ALA:HB2	2.12	0.50
1:CT:55:GLU:OE2	1:CU:140:TRP:NE1	2.45	0.50
1:DK:2:TYR:CD2	1:DS:106:GLY:HA3	2.46	0.50
1:DR:59:PHE:CD1	1:DR:90:ILE:HG12	2.47	0.50
1:EA:142:ILE:HG23	1:IB:142:ILE:HD13	1.94	0.50
1:EE:97:ARG:HA	1:EE:112:ASP:CB	2.41	0.50
1:EG:107:LEU:HD23	1:EG:108:PRO:O	2.10	0.50
1:EG:157:LEU:HG	1:EG:164:ILE:HD11	1.92	0.50
1:EN:110:ILE:HB	1:EO:78:PHE:CE1	2.46	0.50
1:EP:85:GLY:HA2	1:EP:125:ASP:HB2	1.92	0.50
1:FA:26:LEU:HD13	1:FB:144:GLN:OE1	2.11	0.50
1:FG:142:ILE:HD13	1:FH:142:ILE:HG23	1.93	0.50
1:FP:138:ILE:O	1:FP:142:ILE:HG13	2.10	0.50
1:FR:2:TYR:CD2	1:GZ:106:GLY:HA3	2.47	0.50
1:FR:26:LEU:O	1:FR:30:ALA:HB2	2.12	0.50
1:GM:26:LEU:O	1:GM:30:ALA:HB2	2.12	0.50
1:GN:85:GLY:HA2	1:GN:125:ASP:H	1.76	0.50
1:GO:55:GLU:OE2	1:GP:140:TRP:NE1	2.43	0.50
1:GO:72:ASN:O	1:GP:95:ILE:HD11	2.11	0.50
1:GR:43:THR:HG23	1:GR:58:THR:OG1	2.10	0.50
1:GX:59:PHE:CD1	1:GX:90:ILE:HG12	2.47	0.50
1:GY:22:TYR:CD2	1:GZ:140:TRP:HA	2.46	0.50
1:GY:101:THR:HA	1:GY:108:PRO:HA	1.93	0.50
1:HK:97:ARG:HA	1:HK:112:ASP:CB	2.41	0.50
1:HX:157:LEU:HG	1:HX:164:ILE:HD11	1.94	0.50
1:AC:72:ASN:O	1:AD:95:ILE:HD11	2.11	0.50
1:AG:33:MET:CE	1:AG:45:MET:HB2	2.41	0.50
1:AL:59:PHE:CD1	1:AL:90:ILE:HG12	2.47	0.50
1:AN:75:ASN:HB3	1:AN:78:PHE:HD2	1.75	0.50
1:AO:142:ILE:HG23	1:AP:142:ILE:HD13	1.92	0.50
1:AR:126:PHE:HD2	1:AR:128:LEU:HG	1.76	0.50
1:BF:142:ILE:HD13	1:BG:142:ILE:HG23	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BH:22:TYR:CD2	1:BI:140:TRP:HA	2.46	0.50
1:BN:67:VAL:HG11	1:BN:124:ALA:HA	1.94	0.50
1:BN:85:GLY:HA2	1:BN:125:ASP:N	2.25	0.50
1:BR:107:LEU:HD23	1:BR:108:PRO:O	2.12	0.50
1:CC:110:ILE:HB	1:CD:78:PHE:CE1	2.46	0.50
1:CE:63:LYS:NZ	1:CE:125:ASP:OD2	2.41	0.50
1:CK:37:GLN:HG3	1:CK:58:THR:HG21	1.94	0.50
1:CR:33:MET:CE	1:CR:45:MET:HB2	2.41	0.50
1:CR:140:TRP:NE1	1:CS:55:GLU:OE2	2.45	0.50
1:CX:110:ILE:HB	1:CY:78:PHE:CE1	2.46	0.50
1:CZ:78:PHE:CD1	1:DA:110:ILE:HB	2.46	0.50
1:DB:153:VAL:HG22	1:DB:164:ILE:HG21	1.92	0.50
1:DF:131:ASP:OD1	1:DF:134:ARG:NH1	2.45	0.50
1:DK:33:MET:HE3	1:DK:45:MET:HB2	1.93	0.50
1:DL:107:LEU:HD23	1:DL:108:PRO:O	2.10	0.50
1:DN:68:TYR:CD1	1:DN:73:VAL:HG21	2.46	0.50
1:DU:78:PHE:CD1	1:DV:110:ILE:HB	2.46	0.50
1:DY:85:GLY:HA2	1:DY:125:ASP:N	2.25	0.50
1:DY:98:THR:HG23	1:DZ:4:GLN:HB3	1.93	0.50
1:EA:37:GLN:HG3	1:EA:58:THR:HG21	1.94	0.50
1:EC:107:LEU:HD23	1:EC:108:PRO:O	2.11	0.50
1:EH:33:MET:CE	1:EH:45:MET:HB2	2.41	0.50
1:EI:68:TYR:CD1	1:EI:73:VAL:HG21	2.46	0.50
1:EQ:99:GLN:CB	1:EQ:110:ILE:HG12	2.42	0.50
1:FC:33:MET:CE	1:FC:45:MET:HB2	2.41	0.50
1:FZ:55:GLU:OE2	1:GA:140:TRP:NE1	2.45	0.50
1:GD:101:THR:HA	1:GD:108:PRO:HA	1.93	0.50
1:GM:142:ILE:HG23	1:GN:142:ILE:HD13	1.94	0.50
1:GN:107:LEU:HD23	1:GN:108:PRO:O	2.11	0.50
1:GO:2:TYR:CD2	1:HA:106:GLY:HA3	2.47	0.50
1:GY:110:ILE:O	1:GZ:78:PHE:HD1	1.94	0.50
1:HE:85:GLY:HA2	1:HE:125:ASP:N	2.25	0.50
1:HO:68:TYR:CD1	1:HO:73:VAL:HG21	2.46	0.50
1:IB:131:ASP:OD1	1:IB:134:ARG:NH1	2.45	0.50
1:AE:111:VAL:HG12	1:AF:78:PHE:HB3	1.92	0.50
1:AN:53:GLN:NE2	1:AN:97:ARG:HB3	2.25	0.50
1:AT:138:ILE:O	1:AT:142:ILE:HG13	2.11	0.50
1:BH:40:ASN:OD1	1:BI:162:THR:HG21	2.11	0.50
1:BL:144:GLN:HA	1:BM:23:GLN:HB2	1.93	0.50
1:BS:72:ASN:O	1:BT:95:ILE:HD11	2.11	0.50
1:BX:68:TYR:CD1	1:BX:73:VAL:HG21	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CS:85:GLY:HA2	1:CS:125:ASP:H	1.76	0.50
1:DG:26:LEU:O	1:DG:30:ALA:HB2	2.12	0.50
1:DG:142:ILE:HG23	1:DH:142:ILE:HD13	1.94	0.50
1:DM:140:TRP:NE1	1:DN:55:GLU:OE2	2.45	0.50
1:DP:153:VAL:HG13	1:DP:164:ILE:HD13	1.94	0.50
1:DT:75:ASN:HB3	1:DT:78:PHE:HD2	1.75	0.50
1:DT:102:ASP:HB2	1:DT:109:VAL:HG23	1.92	0.50
1:DU:22:TYR:HD2	1:DV:140:TRP:HA	1.77	0.50
1:DU:129:VAL:HG23	1:DU:134:ARG:NH2	2.27	0.50
1:DY:67:VAL:HG11	1:DY:124:ALA:HA	1.94	0.50
1:EH:144:GLN:OE1	1:EI:26:LEU:HD13	2.12	0.50
1:EU:85:GLY:HA2	1:EU:125:ASP:HB2	1.93	0.50
1:EV:37:GLN:HG3	1:EV:58:THR:HG21	1.94	0.50
1:EX:107:LEU:HD23	1:EX:108:PRO:O	2.11	0.50
1:EY:72:ASN:O	1:EZ:95:ILE:HD11	2.11	0.50
1:FE:55:GLU:OE2	1:FF:140:TRP:NE1	2.45	0.50
1:FK:78:PHE:CD1	1:FL:110:ILE:HB	2.46	0.50
1:FV:111:VAL:HG12	1:FW:78:PHE:HB3	1.92	0.50
1:GD:110:ILE:O	1:GE:78:PHE:HD1	1.94	0.50
1:GF:78:PHE:CD1	1:GG:110:ILE:HB	2.46	0.50
1:GH:144:GLN:HA	1:GI:23:GLN:HB2	1.93	0.50
1:GJ:98:THR:HG23	1:GK:4:GLN:HB3	1.93	0.50
1:HA:129:VAL:HG23	1:HA:134:ARG:NH2	2.27	0.50
1:HV:142:ILE:HG23	1:HW:142:ILE:HD13	1.92	0.50
1:AA:26:LEU:O	1:AA:30:ALA:HB2	2.12	0.50
1:AC:99:GLN:HB2	1:AC:110:ILE:HG12	1.93	0.50
1:AE:2:TYR:CD2	1:AM:106:GLY:HA3	2.46	0.50
1:AM:40:ASN:OD1	1:AN:162:THR:HG21	2.11	0.50
1:AS:98:THR:HG23	1:AT:4:GLN:HB3	1.93	0.50
1:AU:131:ASP:OD1	1:AU:134:ARG:NH1	2.45	0.50
1:AX:2:TYR:CD2	1:BJ:106:GLY:HA3	2.47	0.50
1:BO:138:ILE:O	1:BO:142:ILE:HG13	2.11	0.50
1:CI:85:GLY:HA2	1:CI:125:ASP:N	2.25	0.50
1:CL:107:LEU:HD23	1:DH:2:TYR:CD2	2.47	0.50
1:CM:75:ASN:HD21	1:DH:84:LYS:H	1.60	0.50
1:CQ:101:THR:HA	1:CQ:108:PRO:HA	1.92	0.50
1:CU:153:VAL:HG13	1:CU:164:ILE:HD13	1.94	0.50
1:CX:22:TYR:CD2	1:CY:140:TRP:HA	2.46	0.50
1:DF:129:VAL:HG23	1:DF:134:ARG:NH2	2.25	0.50
1:DH:59:PHE:HD1	1:DH:90:ILE:HG12	1.77	0.50
1:DM:67:VAL:HG22	1:DM:83:SER:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DM:144:GLN:OE1	1:DN:26:LEU:HD13	2.12	0.50
1:DN:43:THR:HG23	1:DN:58:THR:OG1	2.12	0.50
1:DW:157:LEU:HG	1:DW:164:ILE:HD11	1.94	0.50
1:EM:59:PHE:CD1	1:EM:90:ILE:HG12	2.47	0.50
1:ER:153:VAL:HG22	1:ER:164:ILE:HG21	1.92	0.50
1:FC:140:TRP:NE1	1:FD:55:GLU:OE2	2.45	0.50
1:FC:144:GLN:OE1	1:FD:26:LEU:HD13	2.12	0.50
1:FH:59:PHE:CD1	1:FH:90:ILE:HG12	2.47	0.50
1:FN:81:SER:HG	1:FN:126:PHE:HE1	1.58	0.50
1:FU:138:ILE:O	1:FU:142:ILE:HG13	2.11	0.50
1:FX:140:TRP:NE1	1:FY:55:GLU:OE2	2.45	0.50
1:GA:153:VAL:HG13	1:GA:164:ILE:HD13	1.94	0.50
1:GO:99:GLN:HB2	1:GO:110:ILE:HG12	1.92	0.50
1:GR:101:THR:HA	1:GR:108:PRO:HA	1.92	0.50
1:GT:68:TYR:CD1	1:GT:73:VAL:HG21	2.46	0.50
1:GT:85:GLY:HA2	1:GT:125:ASP:H	1.76	0.50
1:GY:110:ILE:HB	1:GZ:78:PHE:CE1	2.46	0.50
1:HI:85:GLY:HA2	1:HI:125:ASP:H	1.76	0.50
1:HV:78:PHE:CD1	1:HW:110:ILE:HB	2.46	0.50
1:AA:59:PHE:HD1	1:AA:90:ILE:HG12	1.77	0.50
1:AG:140:TRP:NE1	1:AH:55:GLU:OE2	2.45	0.50
1:AM:22:TYR:CD2	1:AN:140:TRP:HA	2.46	0.50
1:AO:162:THR:HG21	1:AP:40:ASN:OD1	2.12	0.50
1:AV:86:THR:HG21	1:CD:51:LYS:HE2	1.93	0.50
1:AW:85:GLY:HA2	1:AW:125:ASP:H	1.76	0.50
1:AZ:2:TYR:HB3	1:BA:100:SER:HB2	1.92	0.50
1:BI:102:ASP:HB2	1:BI:109:VAL:HG23	1.92	0.50
1:BJ:129:VAL:HG23	1:BJ:134:ARG:NH2	2.27	0.50
1:CB:59:PHE:CD1	1:CB:90:ILE:HG12	2.47	0.50
1:CG:157:LEU:HG	1:CG:164:ILE:HD11	1.94	0.50
1:CI:106:GLY:HA3	1:EJ:2:TYR:HD2	1.76	0.50
1:CU:51:LYS:NZ	1:DC:131:ASP:OD1	2.38	0.50
1:CY:126:PHE:CD2	1:CY:128:LEU:HG	2.46	0.50
1:DJ:97:ARG:HA	1:DJ:112:ASP:CB	2.41	0.50
1:DN:85:GLY:HA2	1:DN:125:ASP:H	1.76	0.50
1:DQ:72:ASN:O	1:DQ:72:ASN:ND2	2.29	0.50
1:DS:40:ASN:OD1	1:DT:162:THR:HG21	2.11	0.50
1:EN:101:THR:HA	1:EN:108:PRO:HA	1.93	0.50
1:EX:59:PHE:HD1	1:EX:90:ILE:HG12	1.77	0.50
1:FD:68:TYR:CD1	1:FD:73:VAL:HG21	2.46	0.50
1:FI:55:GLU:OE2	1:FJ:140:TRP:NE1	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FS:59:PHE:HD1	1:FS:90:ILE:HG12	1.77	0.50
1:FS:157:LEU:CG	1:FS:164:ILE:HD11	2.38	0.50
1:FU:52:ASP:OD1	1:FU:97:ARG:NH2	2.36	0.50
1:FV:33:MET:CE	1:FV:45:MET:HB2	2.40	0.50
1:GD:110:ILE:HB	1:GE:78:PHE:CE1	2.46	0.50
1:GJ:4:GLN:HA	1:GK:97:ARG:O	2.12	0.50
1:GQ:2:TYR:CD2	1:GY:106:GLY:HA3	2.46	0.50
1:GQ:114:PRO:HG2	1:GR:67:VAL:CG1	2.41	0.50
1:HL:72:ASN:O	1:HL:72:ASN:ND2	2.30	0.50
1:HO:85:GLY:HA2	1:HO:125:ASP:H	1.76	0.50
1:HV:85:GLY:HA2	1:HV:125:ASP:HB2	1.92	0.50
1:HZ:85:GLY:HA2	1:HZ:125:ASP:N	2.25	0.50
1:AI:77:THR:OG1	1:AR:82:SER:OG	2.21	0.50
1:AO:129:VAL:HG23	1:AO:134:ARG:NH2	2.27	0.50
1:AV:82:SER:CB	1:CC:75:ASN:HB2	2.35	0.50
1:BJ:22:TYR:HD2	1:BK:140:TRP:HA	1.77	0.50
1:BO:59:PHE:CD1	1:BO:90:ILE:HG12	2.47	0.50
1:BR:85:GLY:HA2	1:BR:125:ASP:H	1.76	0.50
1:BW:140:TRP:NE1	1:BX:55:GLU:OE2	2.45	0.50
1:CD:126:PHE:CD2	1:CD:128:LEU:HG	2.46	0.50
1:CL:59:PHE:HD1	1:CL:90:ILE:HG12	1.77	0.50
1:CX:126:PHE:CD2	1:CX:128:LEU:HG	2.47	0.50
1:DH:85:GLY:HA2	1:DH:125:ASP:H	1.76	0.50
1:EB:138:ILE:O	1:EB:142:ILE:HG13	2.12	0.50
1:EH:140:TRP:NE1	1:EI:55:GLU:OE2	2.45	0.50
1:EN:164:ILE:HG22	1:EN:165:TYR:CD1	2.47	0.50
1:EP:22:TYR:HD2	1:EQ:140:TRP:HA	1.77	0.50
1:EV:129:VAL:HG23	1:EV:134:ARG:NH2	2.25	0.50
1:FD:130:ASP:O	1:FD:134:ARG:HG3	2.12	0.50
1:FF:153:VAL:HG13	1:FF:164:ILE:HD13	1.94	0.50
1:FK:129:VAL:HG23	1:FK:134:ARG:NH2	2.27	0.50
1:FK:138:ILE:O	1:FK:142:ILE:HG13	2.11	0.50
1:FL:85:GLY:HA2	1:FL:125:ASP:HB2	1.94	0.50
1:FO:4:GLN:HA	1:FP:97:ARG:O	2.12	0.50
1:FO:67:VAL:HG11	1:FO:124:ALA:HA	1.94	0.50
1:FQ:131:ASP:OD1	1:FQ:134:ARG:NH1	2.45	0.50
1:GC:59:PHE:CD1	1:GC:90:ILE:HG12	2.47	0.50
1:GH:157:LEU:HG	1:GH:164:ILE:HD11	1.94	0.50
1:GJ:85:GLY:HA2	1:GJ:125:ASP:N	2.25	0.50
1:GS:67:VAL:HG22	1:GS:83:SER:O	2.11	0.50
1:GS:140:TRP:NE1	1:GT:55:GLU:OE2	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GT:43:THR:HG23	1:GT:58:THR:OG1	2.12	0.50
1:HH:59:PHE:HD1	1:HH:90:ILE:HG12	1.77	0.50
1:HH:142:ILE:HG23	1:HI:142:ILE:HD13	1.94	0.50
1:HN:144:GLN:OE1	1:HO:26:LEU:HD13	2.12	0.50
1:HR:111:VAL:HG12	1:HS:78:PHE:HB3	1.94	0.50
1:AQ:157:LEU:HG	1:AQ:164:ILE:HD11	1.94	0.50
1:BK:85:GLY:HA2	1:BK:125:ASP:HB2	1.94	0.50
1:BQ:59:PHE:HD1	1:BQ:90:ILE:HG12	1.77	0.50
1:BX:85:GLY:HA2	1:BX:125:ASP:H	1.76	0.50
1:BX:130:ASP:O	1:BX:134:ARG:HG3	2.12	0.50
1:CV:138:ILE:O	1:CV:142:ILE:HG13	2.12	0.50
1:CW:59:PHE:CD1	1:CW:90:ILE:HG12	2.47	0.50
1:DJ:138:ILE:O	1:DJ:142:ILE:HG13	2.11	0.50
1:DS:110:ILE:O	1:DT:78:PHE:HD1	1.94	0.50
1:EW:59:PHE:HD1	1:EW:90:ILE:HG12	1.77	0.50
1:FD:101:THR:HA	1:FD:108:PRO:HA	1.92	0.50
1:FS:107:LEU:HD23	1:FS:108:PRO:O	2.11	0.50
1:GD:126:PHE:CD2	1:GD:128:LEU:HG	2.47	0.50
1:GT:130:ASP:O	1:GT:134:ARG:HG3	2.12	0.50
1:GY:126:PHE:CD2	1:GY:128:LEU:HG	2.47	0.50
1:HG:131:ASP:OD1	1:HG:134:ARG:NH1	2.45	0.50
1:HI:107:LEU:HD23	1:HI:108:PRO:O	2.12	0.50
1:HJ:55:GLU:OE2	1:HK:140:TRP:NE1	2.43	0.50
1:HP:55:GLU:OE2	1:HQ:140:TRP:NE1	2.45	0.50
1:HV:102:ASP:HB3	1:HV:105:THR:O	2.12	0.50
1:HX:153:VAL:HG22	1:HX:164:ILE:HG21	1.92	0.50
1:AB:59:PHE:HD1	1:AB:90:ILE:HG12	1.77	0.49
1:AD:138:ILE:O	1:AD:142:ILE:HG13	2.11	0.49
1:BC:130:ASP:O	1:BC:134:ARG:HG3	2.12	0.49
1:BG:138:ILE:O	1:BG:142:ILE:HG13	2.12	0.49
1:BI:126:PHE:CD2	1:BI:128:LEU:HG	2.46	0.49
1:BS:2:TYR:CD2	1:CE:106:GLY:HA3	2.47	0.49
1:BW:144:GLN:OE1	1:BX:26:LEU:HD13	2.12	0.49
1:CI:67:VAL:HG11	1:CI:124:ALA:HA	1.94	0.49
1:CV:53:GLN:NE2	1:CV:97:ARG:HB3	2.27	0.49
1:CV:142:ILE:HD13	1:CW:142:ILE:HG23	1.93	0.49
1:DE:85:GLY:HA2	1:DE:125:ASP:HB2	1.93	0.49
1:DF:140:TRP:HA	1:EV:22:TYR:HD2	1.76	0.49
1:EF:2:TYR:HB3	1:EG:100:SER:HB2	1.92	0.49
1:EN:110:ILE:O	1:EO:78:PHE:HD1	1.94	0.49
1:EW:72:ASN:O	1:EW:72:ASN:ND2	2.36	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EX:75:ASN:ND2	1:FS:84:LYS:HG2	2.27	0.49
1:FN:126:PHE:HD2	1:FN:128:LEU:HG	1.76	0.49
1:FW:43:THR:HG23	1:FW:58:THR:OG1	2.11	0.49
1:GD:144:GLN:HA	1:GE:23:GLN:HB2	1.92	0.49
1:GY:164:ILE:HG22	1:GY:165:TYR:CD1	2.47	0.49
1:HC:157:LEU:HG	1:HC:164:ILE:HD11	1.94	0.49
1:HF:138:ILE:O	1:HF:142:ILE:HG13	2.11	0.49
1:HT:55:GLU:OE2	1:HU:140:TRP:NE1	2.45	0.49
1:HZ:98:THR:HG23	1:IA:4:GLN:HB3	1.93	0.49
1:AA:59:PHE:CD1	1:AA:90:ILE:HG12	2.48	0.49
1:AC:72:ASN:O	1:AC:72:ASN:ND2	2.29	0.49
1:AH:85:GLY:HA2	1:AH:125:ASP:H	1.76	0.49
1:AK:138:ILE:O	1:AK:142:ILE:HG13	2.12	0.49
1:AL:138:ILE:O	1:AL:142:ILE:HG13	2.12	0.49
1:AN:75:ASN:HB3	1:AN:78:PHE:CE2	2.47	0.49
1:BH:110:ILE:O	1:BI:78:PHE:HD1	1.94	0.49
1:BP:37:GLN:HG3	1:BP:58:THR:HG21	1.94	0.49
1:CC:85:GLY:HA2	1:CC:125:ASP:HB2	1.95	0.49
1:CC:147:LEU:HD21	1:CD:138:ILE:HG21	1.95	0.49
1:CE:78:PHE:CD1	1:CF:110:ILE:HB	2.46	0.49
1:CF:85:GLY:HA2	1:CF:125:ASP:HB2	1.94	0.49
1:CJ:59:PHE:CD1	1:CJ:90:ILE:HG12	2.47	0.49
1:CM:107:LEU:HD23	1:CM:108:PRO:O	2.11	0.49
1:CN:72:ASN:O	1:CO:95:ILE:HD11	2.11	0.49
1:CS:43:THR:HG23	1:CS:58:THR:OG1	2.12	0.49
1:DA:85:GLY:HA2	1:DA:125:ASP:HB2	1.94	0.49
1:DA:99:GLN:CB	1:DA:110:ILE:HG12	2.42	0.49
1:DB:157:LEU:HG	1:DB:164:ILE:HD11	1.94	0.49
1:DD:4:GLN:HA	1:DE:97:ARG:O	2.12	0.49
1:DF:37:GLN:HG3	1:DF:58:THR:HG21	1.94	0.49
1:DF:93:LYS:HD2	1:EV:71:SER:HA	1.94	0.49
1:DS:101:THR:HA	1:DS:108:PRO:HA	1.93	0.49
1:DU:162:THR:HG21	1:DV:40:ASN:OD1	2.12	0.49
1:DV:85:GLY:HA2	1:DV:125:ASP:HB2	1.94	0.49
1:ET:4:GLN:HA	1:EU:97:ARG:O	2.12	0.49
1:EU:59:PHE:CD1	1:EU:90:ILE:HG12	2.47	0.49
1:EW:59:PHE:CD1	1:EW:90:ILE:HG12	2.48	0.49
1:FJ:75:ASN:HB3	1:FJ:78:PHE:CE2	2.48	0.49
1:FO:75:ASN:HB3	1:FO:78:PHE:CE2	2.48	0.49
1:FP:59:PHE:CD1	1:FP:90:ILE:HG12	2.47	0.49
1:GD:55:GLU:OE2	1:GE:140:TRP:NE1	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GD:85:GLY:HA2	1:GD:125:ASP:N	2.26	0.49
1:GF:22:TYR:HD2	1:GG:140:TRP:HA	1.77	0.49
1:GJ:67:VAL:HG11	1:GJ:124:ALA:HA	1.94	0.49
1:GL:131:ASP:OD1	1:GL:134:ARG:NH1	2.45	0.49
1:GO:102:ASP:OD1	1:GO:104:ASN:N	2.45	0.49
1:GS:144:GLN:OE1	1:GT:26:LEU:HD13	2.12	0.49
1:GU:29:LYS:O	1:GU:47:THR:OG1	2.19	0.49
1:HE:67:VAL:HG11	1:HE:124:ALA:HA	1.94	0.49
1:HF:85:GLY:HA2	1:HF:125:ASP:HB2	1.93	0.49
1:HI:59:PHE:HD1	1:HI:90:ILE:HG12	1.77	0.49
1:HN:140:TRP:NE1	1:HO:55:GLU:OE2	2.45	0.49
1:HO:43:THR:HG23	1:HO:58:THR:OG1	2.12	0.49
1:HR:33:MET:HE3	1:HR:45:MET:HB2	1.93	0.49
1:HT:110:ILE:O	1:HU:78:PHE:HD1	1.94	0.49
1:HV:129:VAL:HG23	1:HV:134:ARG:NH2	2.27	0.49
1:AM:126:PHE:CD2	1:AM:128:LEU:HG	2.47	0.49
1:AV:26:LEU:O	1:AV:30:ALA:HB2	2.12	0.49
1:AX:99:GLN:HB2	1:AX:110:ILE:HG12	1.92	0.49
1:BC:85:GLY:HA2	1:BC:125:ASP:H	1.76	0.49
1:BD:55:GLU:OE2	1:BE:140:TRP:NE1	2.45	0.49
1:BH:55:GLU:OE2	1:BI:140:TRP:NE1	2.45	0.49
1:BH:164:ILE:HG22	1:BH:165:TYR:CD1	2.47	0.49
1:BS:55:GLU:OE2	1:BT:140:TRP:NE1	2.43	0.49
1:BU:2:TYR:HB3	1:BV:100:SER:HB2	1.92	0.49
1:BZ:138:ILE:O	1:BZ:142:ILE:HG13	2.13	0.49
1:CE:102:ASP:HB3	1:CE:105:THR:O	2.12	0.49
1:CI:4:GLN:HA	1:CJ:97:ARG:O	2.12	0.49
1:CM:59:PHE:HD1	1:CM:90:ILE:HG12	1.77	0.49
1:DK:2:TYR:HD2	1:DS:106:GLY:HA3	1.78	0.49
1:DK:55:GLU:OE2	1:DL:140:TRP:NE1	2.46	0.49
1:DP:101:THR:HA	1:DP:108:PRO:HA	1.95	0.49
1:DS:55:GLU:OE2	1:DT:140:TRP:NE1	2.45	0.49
1:EA:142:ILE:HD13	1:IB:142:ILE:HG23	1.93	0.49
1:EB:26:LEU:O	1:EB:30:ALA:HB2	2.12	0.49
1:ED:29:LYS:O	1:ED:47:THR:OG1	2.22	0.49
1:EM:138:ILE:O	1:EM:142:ILE:HG13	2.12	0.49
1:EP:129:VAL:HG23	1:EP:134:ARG:NH2	2.27	0.49
1:FG:111:VAL:HG12	1:FH:78:PHE:HB3	1.94	0.49
1:FK:22:TYR:HD2	1:FL:140:TRP:HA	1.77	0.49
1:GA:51:LYS:HZ1	1:GI:131:ASP:CG	2.15	0.49
1:GC:138:ILE:O	1:GC:142:ILE:HG13	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GF:162:THR:HG21	1:GG:40:ASN:OD1	2.12	0.49
1:GU:55:GLU:OE2	1:GV:140:TRP:NE1	2.45	0.49
1:HA:78:PHE:CD1	1:HB:110:ILE:HB	2.46	0.49
1:HE:4:GLN:HA	1:HF:97:ARG:O	2.12	0.49
1:HF:59:PHE:CD1	1:HF:90:ILE:HG12	2.47	0.49
1:HS:59:PHE:CD1	1:HS:90:ILE:HG12	2.47	0.49
1:HT:126:PHE:CD2	1:HT:128:LEU:HG	2.47	0.49
1:AA:142:ILE:HG23	1:AB:142:ILE:HD13	1.94	0.49
1:AC:2:TYR:CD2	1:AO:106:GLY:HA3	2.47	0.49
1:AF:97:ARG:HA	1:AF:112:ASP:HB3	1.95	0.49
1:AH:29:LYS:O	1:AH:47:THR:OG1	2.22	0.49
1:AI:102:ASP:OD1	1:AI:104:ASN:N	2.45	0.49
1:AK:111:VAL:HG12	1:AL:78:PHE:HB3	1.94	0.49
1:AM:75:ASN:HB2	1:DG:82:SER:CB	2.38	0.49
1:AM:164:ILE:HG22	1:AM:165:TYR:CD1	2.47	0.49
1:AO:102:ASP:HB3	1:AO:105:THR:O	2.12	0.49
1:AS:85:GLY:HA2	1:AS:125:ASP:N	2.25	0.49
1:AV:59:PHE:HD1	1:AV:90:ILE:HG12	1.77	0.49
1:BE:138:ILE:O	1:BE:142:ILE:HG13	2.13	0.49
1:BE:153:VAL:HG13	1:BE:164:ILE:HD13	1.94	0.49
1:BJ:102:ASP:HB3	1:BJ:105:THR:O	2.12	0.49
1:BQ:59:PHE:CD1	1:BQ:90:ILE:HG12	2.48	0.49
1:BR:134:ARG:O	1:BR:137:THR:HG22	2.13	0.49
1:BX:43:THR:HG23	1:BX:58:THR:OG1	2.12	0.49
1:BY:42:ALA:HB2	1:BZ:162:THR:HG22	1.95	0.49
1:BZ:153:VAL:HG13	1:BZ:164:ILE:HD13	1.94	0.49
1:CA:138:ILE:O	1:CA:142:ILE:HG13	2.12	0.49
1:CB:138:ILE:O	1:CB:142:ILE:HG13	2.12	0.49
1:CC:55:GLU:OE2	1:CD:140:TRP:NE1	2.45	0.49
1:CI:75:ASN:HB3	1:CI:78:PHE:CE2	2.48	0.49
1:CK:33:MET:SD	1:CK:45:MET:HB2	2.53	0.49
1:CL:142:ILE:HG23	1:CM:142:ILE:HD13	1.94	0.49
1:CO:52:ASP:OD1	1:CO:97:ARG:NH2	2.37	0.49
1:DF:23:GLN:HB2	1:EV:144:GLN:HA	1.94	0.49
1:DP:138:ILE:O	1:DP:142:ILE:HG13	2.13	0.49
1:DQ:53:GLN:NE2	1:DQ:97:ARG:HB3	2.27	0.49
1:DQ:98:THR:HG23	1:DR:4:GLN:HB3	1.95	0.49
1:EF:55:GLU:OE2	1:EG:140:TRP:NE1	2.46	0.49
1:EK:153:VAL:HG13	1:EK:164:ILE:HD13	1.94	0.49
1:EL:53:GLN:NE2	1:EL:97:ARG:HB3	2.27	0.49
1:FD:43:THR:HG23	1:FD:58:THR:OG1	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FH:138:ILE:O	1:FH:142:ILE:HG13	2.12	0.49
1:GK:85:GLY:HA2	1:GK:125:ASP:HB2	1.93	0.49
1:GV:138:ILE:O	1:GV:142:ILE:HG13	2.13	0.49
1:GW:81:SER:OG	1:HC:75:ASN:ND2	2.45	0.49
1:GY:55:GLU:OE2	1:GZ:140:TRP:NE1	2.45	0.49
1:HA:162:THR:HG21	1:HB:40:ASN:OD1	2.12	0.49
1:HM:97:ARG:HA	1:HM:112:ASP:HB3	1.95	0.49
1:HV:22:TYR:HD2	1:HW:140:TRP:HA	1.77	0.49
1:IA:85:GLY:HA2	1:IA:125:ASP:HB2	1.94	0.49
1:AA:50:PRO:HG2	1:AA:53:GLN:HB3	1.95	0.49
1:AG:29:LYS:O	1:AG:47:THR:OG1	2.20	0.49
1:AH:43:THR:HG23	1:AH:58:THR:OG1	2.12	0.49
1:AI:42:ALA:HB2	1:AJ:162:THR:HG22	1.95	0.49
1:AI:55:GLU:OE2	1:AJ:140:TRP:NE1	2.45	0.49
1:AJ:101:THR:HA	1:AJ:108:PRO:HA	1.95	0.49
1:AM:85:GLY:HA2	1:AM:125:ASP:HB2	1.94	0.49
1:AM:101:THR:HA	1:AM:108:PRO:HA	1.93	0.49
1:AU:33:MET:SD	1:AU:45:MET:HB2	2.53	0.49
1:AZ:55:GLU:OE2	1:BA:140:TRP:NE1	2.46	0.49
1:BD:77:THR:OG1	1:BM:82:SER:OG	2.21	0.49
1:BI:75:ASN:HB3	1:BI:78:PHE:HD2	1.75	0.49
1:BP:33:MET:SD	1:BP:45:MET:HB2	2.53	0.49
1:CA:29:LYS:O	1:CA:47:THR:OG1	2.20	0.49
1:CD:75:ASN:HB3	1:CD:78:PHE:CE2	2.47	0.49
1:CF:99:GLN:CB	1:CF:110:ILE:HG12	2.42	0.49
1:CR:144:GLN:OE1	1:CS:26:LEU:HD13	2.12	0.49
1:DQ:142:ILE:HD13	1:DR:142:ILE:HG23	1.93	0.49
1:DS:85:GLY:HA2	1:DS:125:ASP:HB2	1.94	0.49
1:DY:75:ASN:HB3	1:DY:78:PHE:CE2	2.48	0.49
1:EB:59:PHE:HD1	1:EB:90:ILE:HG12	1.77	0.49
1:EB:142:ILE:HG23	1:EC:142:ILE:HD13	1.94	0.49
1:ED:2:TYR:CD2	1:EP:106:GLY:HA3	2.47	0.49
1:EL:138:ILE:O	1:EL:142:ILE:HG13	2.12	0.49
1:ET:75:ASN:HB3	1:ET:78:PHE:CE2	2.48	0.49
1:EX:74:GLN:HG2	1:FS:125:ASP:HB3	1.95	0.49
1:FA:2:TYR:HD2	1:FI:106:GLY:HA3	1.77	0.49
1:FF:138:ILE:O	1:FF:142:ILE:HG13	2.13	0.49
1:FG:53:GLN:NE2	1:FG:97:ARG:HB3	2.27	0.49
1:FG:138:ILE:O	1:FG:142:ILE:HG13	2.13	0.49
1:FI:85:GLY:HA2	1:FI:125:ASP:HB2	1.95	0.49
1:FI:164:ILE:HG22	1:FI:165:TYR:CD1	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FV:2:TYR:HD2	1:GD:106:GLY:HA3	1.78	0.49
1:FZ:77:THR:OG1	1:GI:82:SER:OG	2.21	0.49
1:GD:164:ILE:HG22	1:GD:165:TYR:CD1	2.47	0.49
1:GF:129:VAL:HG23	1:GF:134:ARG:NH2	2.27	0.49
1:GI:126:PHE:HD2	1:GI:128:LEU:HG	1.76	0.49
1:GL:33:MET:SD	1:GL:45:MET:HB2	2.53	0.49
1:GM:59:PHE:HD1	1:GM:90:ILE:HG12	1.77	0.49
1:GN:59:PHE:HD1	1:GN:90:ILE:HG12	1.77	0.49
1:GW:53:GLN:NE2	1:GW:97:ARG:HB3	2.27	0.49
1:HC:144:GLN:HA	1:HD:23:GLN:HB2	1.93	0.49
1:HG:37:GLN:HG3	1:HG:58:THR:HG21	1.94	0.49
1:HH:138:ILE:O	1:HH:142:ILE:HG13	2.12	0.49
1:HL:55:GLU:OE2	1:HM:140:TRP:NE1	2.46	0.49
1:AG:144:GLN:OE1	1:AH:26:LEU:HD13	2.12	0.49
1:AH:130:ASP:O	1:AH:134:ARG:HG3	2.12	0.49
1:AI:2:TYR:HD2	1:GJ:106:GLY:HA3	1.78	0.49
1:AK:53:GLN:NE2	1:AK:97:ARG:HB3	2.27	0.49
1:AM:110:ILE:O	1:AN:78:PHE:HD1	1.94	0.49
1:AS:4:GLN:HA	1:AT:97:ARG:O	2.12	0.49
1:AV:86:THR:OG1	1:CD:51:LYS:HE3	2.12	0.49
1:AV:112:ASP:O	1:AW:76:GLN:NE2	2.46	0.49
1:AW:134:ARG:O	1:AW:137:THR:HG22	2.13	0.49
1:BA:97:ARG:HA	1:BA:112:ASP:HB3	1.95	0.49
1:BC:43:THR:HG23	1:BC:58:THR:OG1	2.12	0.49
1:BJ:162:THR:HG21	1:BK:40:ASN:OD1	2.12	0.49
1:BK:126:PHE:CD2	1:BK:128:LEU:HG	2.48	0.49
1:CA:53:GLN:NE2	1:CA:97:ARG:HB3	2.27	0.49
1:CE:22:TYR:HD2	1:CF:140:TRP:HA	1.77	0.49
1:CF:126:PHE:CD2	1:CF:128:LEU:HG	2.48	0.49
1:CP:114:PRO:HD3	1:CQ:68:TYR:CE1	2.48	0.49
1:CQ:103:VAL:HG23	1:CX:104:ASN:O	2.13	0.49
1:CZ:102:ASP:HB3	1:CZ:105:THR:O	2.12	0.49
1:DH:87:LYS:HE3	1:DH:120:THR:CG2	2.43	0.49
1:DI:2:TYR:CD2	1:DU:106:GLY:HA3	2.47	0.49
1:DK:67:VAL:HG21	1:DK:124:ALA:HB2	1.95	0.49
1:DL:103:VAL:HG23	1:DS:104:ASN:O	2.13	0.49
1:DX:126:PHE:HD2	1:DX:128:LEU:HG	1.76	0.49
1:EA:131:ASP:OD1	1:EA:134:ARG:NH1	2.45	0.49
1:EB:59:PHE:CD1	1:EB:90:ILE:HG12	2.48	0.49
1:EC:134:ARG:O	1:EC:137:THR:HG22	2.13	0.49
1:EI:130:ASP:O	1:EI:134:ARG:HG3	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EL:111:VAL:HG12	1:EM:78:PHE:HB3	1.94	0.49
1:EP:102:ASP:HB3	1:EP:105:THR:O	2.12	0.49
1:EP:162:THR:HG21	1:EQ:40:ASN:OD1	2.12	0.49
1:EV:131:ASP:OD1	1:EV:134:ARG:NH1	2.45	0.49
1:FI:101:THR:HA	1:FI:108:PRO:HA	1.93	0.49
1:FR:59:PHE:HD1	1:FR:90:ILE:HG12	1.77	0.49
1:FS:87:LYS:HE3	1:FS:120:THR:CG2	2.43	0.49
1:FX:144:GLN:OE1	1:FY:26:LEU:HD13	2.12	0.49
1:FY:43:THR:HG23	1:FY:58:THR:OG1	2.12	0.49
1:GB:53:GLN:NE2	1:GB:97:ARG:HB3	2.27	0.49
1:GM:138:ILE:O	1:GM:142:ILE:HG13	2.12	0.49
1:GN:134:ARG:O	1:GN:137:THR:HG22	2.13	0.49
1:GU:42:ALA:HB2	1:GV:162:THR:HG22	1.95	0.49
1:HB:126:PHE:CD2	1:HB:128:LEU:HG	2.48	0.49
1:HH:72:ASN:O	1:HI:95:ILE:HD11	2.13	0.49
1:HZ:67:VAL:HG11	1:HZ:124:ALA:HA	1.94	0.49
1:IB:33:MET:SD	1:IB:45:MET:HB2	2.53	0.49
1:AK:33:MET:HE1	1:AK:45:MET:HB2	1.95	0.49
1:AK:98:THR:HG23	1:AL:4:GLN:HB3	1.95	0.49
1:AQ:144:GLN:HA	1:AR:23:GLN:HB2	1.93	0.49
1:AU:37:GLN:HG3	1:AU:58:THR:HG21	1.94	0.49
1:BA:103:VAL:HG23	1:BH:104:ASN:O	2.13	0.49
1:BC:130:ASP:HB3	1:BC:132:SER:H	1.78	0.49
1:BF:53:GLN:NE2	1:BF:97:ARG:HB3	2.27	0.49
1:BI:75:ASN:HB3	1:BI:78:PHE:CE2	2.47	0.49
1:CD:75:ASN:HB3	1:CD:78:PHE:HD2	1.75	0.49
1:CL:72:ASN:O	1:CM:95:ILE:HD11	2.13	0.49
1:CP:55:GLU:OE2	1:CQ:140:TRP:NE1	2.46	0.49
1:DE:163:ARG:NH1	1:HO:32:TYR:HE2	2.11	0.49
1:DJ:52:ASP:OD1	1:DJ:97:ARG:NH2	2.36	0.49
1:DR:138:ILE:O	1:DR:142:ILE:HG13	2.12	0.49
1:DY:4:GLN:HA	1:DZ:97:ARG:O	2.12	0.49
1:EF:2:TYR:HD2	1:EN:106:GLY:HA3	1.77	0.49
1:EI:85:GLY:HA2	1:EI:125:ASP:H	1.76	0.49
1:EN:55:GLU:OE2	1:EO:140:TRP:NE1	2.45	0.49
1:FE:42:ALA:HB2	1:FF:162:THR:HG22	1.95	0.49
1:FR:59:PHE:CD1	1:FR:90:ILE:HG12	2.47	0.49
1:FS:85:GLY:HA2	1:FS:125:ASP:H	1.76	0.49
1:GA:101:THR:HA	1:GA:108:PRO:HA	1.95	0.49
1:GA:138:ILE:O	1:GA:142:ILE:HG13	2.13	0.49
1:GD:147:LEU:HD21	1:GE:138:ILE:HG21	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HG:33:MET:SD	1:HG:45:MET:HB2	2.53	0.49
1:HH:26:LEU:O	1:HH:30:ALA:HB2	2.12	0.49
1:HT:164:ILE:HG22	1:HT:165:TYR:CD1	2.47	0.49
1:AA:138:ILE:O	1:AA:142:ILE:HG13	2.12	0.49
1:AM:55:GLU:OE2	1:AN:140:TRP:NE1	2.45	0.49
1:BB:144:GLN:OE1	1:BC:26:LEU:HD13	2.12	0.49
1:BL:157:LEU:HG	1:BL:164:ILE:HD11	1.94	0.49
1:BP:26:LEU:HD13	1:GL:144:GLN:NE2	2.28	0.49
1:BQ:33:MET:HE1	1:BQ:45:MET:HB2	1.94	0.49
1:BQ:138:ILE:O	1:BQ:142:ILE:HG13	2.12	0.49
1:BW:59:PHE:CD1	1:BW:90:ILE:HG12	2.48	0.49
1:CA:111:VAL:HG12	1:CB:78:PHE:HB3	1.94	0.49
1:CB:29:LYS:O	1:CB:47:THR:OG1	2.26	0.49
1:CC:126:PHE:CD2	1:CC:128:LEU:HG	2.47	0.49
1:CE:72:ASN:O	1:CE:72:ASN:ND2	2.32	0.49
1:CH:126:PHE:HD2	1:CH:128:LEU:HG	1.76	0.49
1:CR:29:LYS:O	1:CR:47:THR:OG1	2.20	0.49
1:CU:138:ILE:O	1:CU:142:ILE:HG13	2.13	0.49
1:CV:136:SER:HG	1:CW:22:TYR:HH	1.59	0.49
1:DD:67:VAL:HG11	1:DD:124:ALA:HA	1.94	0.49
1:DD:75:ASN:HB3	1:DD:78:PHE:CE2	2.48	0.49
1:DF:33:MET:SD	1:DF:45:MET:HB2	2.53	0.49
1:DG:59:PHE:HD1	1:DG:90:ILE:HG12	1.77	0.49
1:DM:44:TYR:OH	1:DN:166:GLY:O	2.31	0.49
1:DQ:2:TYR:HB3	1:DR:100:SER:HB2	1.95	0.49
1:DQ:138:ILE:O	1:DQ:142:ILE:HG13	2.12	0.49
1:EA:33:MET:SD	1:EA:45:MET:HB2	2.53	0.49
1:ED:112:ASP:O	1:EE:76:GLN:NE2	2.30	0.49
1:EE:52:ASP:OD1	1:EE:97:ARG:NH2	2.36	0.49
1:EG:103:VAL:HG23	1:EN:104:ASN:O	2.13	0.49
1:EI:43:THR:HG23	1:EI:58:THR:OG1	2.12	0.49
1:EL:81:SER:OG	1:ER:75:ASN:ND2	2.45	0.49
1:EN:85:GLY:HA2	1:EN:125:ASP:HB2	1.95	0.49
1:EN:126:PHE:CD2	1:EN:128:LEU:HG	2.47	0.49
1:FA:114:PRO:HG2	1:FB:67:VAL:CG1	2.41	0.49
1:FB:97:ARG:HA	1:FB:112:ASP:HB3	1.94	0.49
1:FB:103:VAL:HG23	1:FI:104:ASN:O	2.13	0.49
1:FG:98:THR:HG23	1:FH:4:GLN:HB3	1.95	0.49
1:FM:157:LEU:HG	1:FM:164:ILE:HD11	1.94	0.49
1:FQ:33:MET:SD	1:FQ:45:MET:HB2	2.53	0.49
1:FT:2:TYR:CD2	1:GF:106:GLY:HA3	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FT:102:ASP:OD1	1:FT:104:ASN:N	2.45	0.49
1:FV:67:VAL:HG21	1:FV:124:ALA:HB2	1.95	0.49
1:GB:138:ILE:O	1:GB:142:ILE:HG13	2.12	0.49
1:GB:142:ILE:HD13	1:GC:142:ILE:HG23	1.93	0.49
1:GG:126:PHE:CD2	1:GG:128:LEU:HG	2.48	0.49
1:GI:29:LYS:O	1:GI:47:THR:OG1	2.21	0.49
1:GM:72:ASN:O	1:GN:95:ILE:HD11	2.13	0.49
1:GQ:2:TYR:HD2	1:GY:106:GLY:HA3	1.78	0.49
1:GR:97:ARG:HA	1:GR:112:ASP:HB3	1.95	0.49
1:GW:98:THR:HG23	1:GX:4:GLN:HB3	1.95	0.49
1:GX:138:ILE:O	1:GX:142:ILE:HG13	2.12	0.49
1:HL:33:MET:HE3	1:HL:45:MET:HB2	1.95	0.49
1:HM:103:VAL:HG23	1:HT:104:ASN:O	2.13	0.49
1:HN:59:PHE:CD1	1:HN:90:ILE:HG12	2.48	0.49
1:HP:95:ILE:HD11	1:HP:112:ASP:CG	2.33	0.49
1:HS:138:ILE:O	1:HS:142:ILE:HG13	2.12	0.49
1:IB:37:GLN:HG3	1:IB:58:THR:HG21	1.94	0.49
1:AB:87:LYS:HE3	1:AB:120:THR:CG2	2.43	0.49
1:AE:114:PRO:HD3	1:AF:68:TYR:CE1	2.48	0.49
1:AI:95:ILE:HD11	1:AI:112:ASP:CG	2.33	0.49
1:AU:100:SER:HB2	1:HG:2:TYR:CB	2.43	0.49
1:AV:72:ASN:O	1:AW:95:ILE:HD11	2.13	0.49
1:BB:59:PHE:CD1	1:BB:90:ILE:HG12	2.48	0.49
1:BE:101:THR:HA	1:BE:108:PRO:HA	1.95	0.49
1:BH:101:THR:HA	1:BH:108:PRO:HA	1.93	0.49
1:BH:147:LEU:HD21	1:BI:138:ILE:HG21	1.95	0.49
1:BQ:142:ILE:HG23	1:BR:142:ILE:HD13	1.94	0.49
1:BU:55:GLU:OE2	1:BV:140:TRP:NE1	2.46	0.49
1:CA:33:MET:HE3	1:CA:45:MET:HB2	1.95	0.49
1:CC:55:GLU:OE1	1:CD:8:TYR:CE1	2.66	0.49
1:CC:164:ILE:HG22	1:CC:165:TYR:CD1	2.47	0.49
1:CE:162:THR:HG21	1:CF:40:ASN:OD1	2.12	0.49
1:CK:131:ASP:OD1	1:CK:134:ARG:NH1	2.45	0.49
1:CN:2:TYR:CD2	1:CZ:106:GLY:HA3	2.47	0.49
1:CT:95:ILE:HD11	1:CT:112:ASP:CG	2.33	0.49
1:CV:111:VAL:HG12	1:CW:78:PHE:HB3	1.94	0.49
1:CZ:162:THR:HG21	1:DA:40:ASN:OD1	2.12	0.49
1:DK:114:PRO:HG2	1:DL:67:VAL:CG1	2.41	0.49
1:DQ:4:GLN:HB3	1:DR:98:THR:HA	1.95	0.49
1:EC:59:PHE:HD1	1:EC:90:ILE:HG12	1.77	0.49
1:EC:85:GLY:HA2	1:EC:125:ASP:H	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EQ:85:GLY:HA2	1:EQ:125:ASP:HB2	1.94	0.49
1:ET:67:VAL:HG11	1:ET:124:ALA:HA	1.94	0.49
1:EW:26:LEU:O	1:EW:30:ALA:HB2	2.12	0.49
1:FA:114:PRO:HD3	1:FB:68:TYR:CE1	2.48	0.49
1:FZ:42:ALA:HB2	1:GA:162:THR:HG22	1.95	0.49
1:FZ:95:ILE:HD11	1:FZ:112:ASP:CG	2.34	0.49
1:GM:59:PHE:CD1	1:GM:90:ILE:HG12	2.48	0.49
1:GW:2:TYR:HB3	1:GX:100:SER:HB2	1.95	0.49
1:GW:138:ILE:O	1:GW:142:ILE:HG13	2.12	0.49
1:HH:33:MET:HE3	1:HH:45:MET:HB2	1.95	0.49
1:HJ:2:TYR:CD2	1:HV:106:GLY:HA3	2.47	0.49
1:IA:59:PHE:CD1	1:IA:90:ILE:HG12	2.47	0.49
1:AB:85:GLY:HA2	1:AB:125:ASP:H	1.76	0.49
1:AE:67:VAL:HG21	1:AE:124:ALA:HB2	1.95	0.49
1:AE:82:SER:HB3	1:AN:75:ASN:CB	2.43	0.49
1:AS:75:ASN:HB3	1:AS:78:PHE:CE2	2.48	0.49
1:AV:142:ILE:HG23	1:AW:142:ILE:HD13	1.94	0.49
1:BD:42:ALA:HB2	1:BE:162:THR:HG22	1.95	0.49
1:BF:29:LYS:O	1:BF:47:THR:OG1	2.20	0.49
1:BH:55:GLU:OE1	1:BI:8:TYR:CE1	2.66	0.49
1:BN:4:GLN:HA	1:BO:97:ARG:O	2.12	0.49
1:BO:85:GLY:HA2	1:BO:125:ASP:HB2	1.93	0.49
1:BU:2:TYR:HD2	1:CC:106:GLY:HA3	1.77	0.49
1:BX:130:ASP:HB3	1:BX:132:SER:H	1.78	0.49
1:CK:11:PRO:HD2	1:FQ:22:TYR:CE1	2.48	0.49
1:CM:87:LYS:HE3	1:CM:120:THR:CG2	2.43	0.49
1:CZ:129:VAL:HG23	1:CZ:134:ARG:NH2	2.27	0.49
1:DB:85:GLY:HA2	1:DB:125:ASP:N	2.27	0.49
1:DG:50:PRO:HG2	1:DG:53:GLN:HB3	1.95	0.49
1:DG:59:PHE:CD1	1:DG:90:ILE:HG12	2.48	0.49
1:DG:138:ILE:O	1:DG:142:ILE:HG13	2.12	0.49
1:DI:102:ASP:OD1	1:DI:104:ASN:N	2.46	0.49
1:DO:95:ILE:HD11	1:DO:112:ASP:CG	2.33	0.49
1:DS:164:ILE:HG22	1:DS:165:TYR:CD1	2.47	0.49
1:DV:126:PHE:CD2	1:DV:128:LEU:HG	2.48	0.49
1:EF:114:PRO:HD3	1:EG:68:TYR:CE1	2.48	0.49
1:EX:134:ARG:O	1:EX:137:THR:HG22	2.13	0.49
1:FA:55:GLU:OE2	1:FB:140:TRP:NE1	2.46	0.49
1:FC:59:PHE:CD1	1:FC:90:ILE:HG12	2.48	0.49
1:FG:4:GLN:HB3	1:FH:98:THR:HA	1.95	0.49
1:FJ:134:ARG:O	1:FJ:137:THR:HG22	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FK:162:THR:HG21	1:FL:40:ASN:OD1	2.12	0.49
1:FQ:37:GLN:HG3	1:FQ:58:THR:HG21	1.94	0.49
1:FR:50:PRO:HG2	1:FR:53:GLN:HB3	1.95	0.49
1:GB:4:GLN:HB3	1:GC:98:THR:HA	1.95	0.49
1:GG:85:GLY:HA2	1:GG:125:ASP:HB2	1.94	0.49
1:GJ:75:ASN:HB3	1:GJ:78:PHE:CE2	2.48	0.49
1:GT:130:ASP:HB3	1:GT:132:SER:H	1.78	0.49
1:GV:101:THR:HA	1:GV:108:PRO:HA	1.95	0.49
1:HA:22:TYR:HD2	1:HB:140:TRP:HA	1.77	0.49
1:HN:44:TYR:OH	1:HO:166:GLY:O	2.31	0.49
1:HO:130:ASP:HB3	1:HO:132:SER:H	1.78	0.49
1:HO:130:ASP:O	1:HO:134:ARG:HG3	2.12	0.49
1:HQ:153:VAL:HG13	1:HQ:164:ILE:HD13	1.94	0.49
1:HR:138:ILE:O	1:HR:142:ILE:HG13	2.12	0.49
1:HT:85:GLY:HA2	1:HT:125:ASP:N	2.26	0.49
1:AJ:153:VAL:HG13	1:AJ:164:ILE:HD13	1.94	0.48
1:AK:81:SER:OG	1:AQ:75:ASN:ND2	2.45	0.48
1:AO:78:PHE:CD1	1:AP:110:ILE:HB	2.46	0.48
1:BO:153:VAL:HG13	1:BO:164:ILE:HD13	1.95	0.48
1:BP:99:GLN:CB	1:BP:110:ILE:HG12	2.43	0.48
1:BS:102:ASP:OD1	1:BS:104:ASN:N	2.45	0.48
1:BY:95:ILE:HD11	1:BY:112:ASP:CG	2.33	0.48
1:CK:44:TYR:OH	1:FQ:166:GLY:N	2.43	0.48
1:CP:2:TYR:HD2	1:CX:106:GLY:HA3	1.78	0.48
1:CP:67:VAL:HG21	1:CP:124:ALA:HB2	1.95	0.48
1:CT:102:ASP:OD1	1:CT:104:ASN:N	2.45	0.48
1:CV:4:GLN:HB3	1:CW:98:THR:HA	1.95	0.48
1:CW:138:ILE:O	1:CW:142:ILE:HG13	2.12	0.48
1:CX:55:GLU:OE2	1:CY:140:TRP:NE1	2.45	0.48
1:DN:130:ASP:O	1:DN:134:ARG:HG3	2.12	0.48
1:EQ:126:PHE:CD2	1:EQ:128:LEU:HG	2.48	0.48
1:EW:138:ILE:O	1:EW:142:ILE:HG13	2.12	0.48
1:FE:144:GLN:HA	1:FF:23:GLN:HB2	1.95	0.48
1:FI:147:LEU:HD21	1:FJ:138:ILE:HG21	1.95	0.48
1:FW:103:VAL:HG23	1:GD:104:ASN:O	2.13	0.48
1:FZ:102:ASP:OD1	1:FZ:104:ASN:N	2.45	0.48
1:GB:111:VAL:HG12	1:GC:78:PHE:HB3	1.94	0.48
1:GE:134:ARG:O	1:GE:137:THR:HG22	2.13	0.48
1:GL:37:GLN:HG3	1:GL:58:THR:HG21	1.94	0.48
1:GQ:114:PRO:HD3	1:GR:68:TYR:CE1	2.48	0.48
1:GV:153:VAL:HG13	1:GV:164:ILE:HD13	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GW:111:VAL:HG12	1:GX:78:PHE:HB3	1.94	0.48
1:GZ:75:ASN:HB3	1:GZ:78:PHE:HD2	1.75	0.48
1:GZ:134:ARG:O	1:GZ:137:THR:HG22	2.13	0.48
1:HB:85:GLY:HA2	1:HB:125:ASP:HB2	1.94	0.48
1:HE:75:ASN:HB3	1:HE:78:PHE:CE2	2.48	0.48
1:HH:112:ASP:O	1:HI:76:GLN:NE2	2.46	0.48
1:HJ:116:TRP:CZ3	1:HK:67:VAL:HG13	2.42	0.48
1:HW:85:GLY:HA2	1:HW:125:ASP:HB2	1.94	0.48
1:AA:72:ASN:O	1:AB:95:ILE:HD11	2.13	0.48
1:AE:166:GLY:O	1:AF:44:TYR:OH	2.32	0.48
1:AP:99:GLN:CB	1:AP:110:ILE:HG12	2.42	0.48
1:AS:67:VAL:HG11	1:AS:124:ALA:HA	1.94	0.48
1:AT:85:GLY:HA2	1:AT:125:ASP:HB2	1.93	0.48
1:AU:99:GLN:CB	1:AU:110:ILE:HG12	2.43	0.48
1:AV:59:PHE:CD1	1:AV:90:ILE:HG12	2.48	0.48
1:AX:102:ASP:OD1	1:AX:104:ASN:N	2.45	0.48
1:AZ:67:VAL:HG21	1:AZ:124:ALA:HB2	1.95	0.48
1:BD:95:ILE:HD11	1:BD:112:ASP:CG	2.33	0.48
1:BP:140:TRP:HA	1:GL:22:TYR:HD2	1.74	0.48
1:BQ:72:ASN:O	1:BR:95:ILE:HD11	2.13	0.48
1:BT:129:VAL:HG12	1:BT:134:ARG:HH21	1.79	0.48
1:BU:82:SER:HB3	1:CD:75:ASN:CB	2.43	0.48
1:BU:114:PRO:HD3	1:BV:68:TYR:CE1	2.48	0.48
1:CL:59:PHE:CD1	1:CL:90:ILE:HG12	2.48	0.48
1:CT:144:GLN:HA	1:CU:23:GLN:HB2	1.95	0.48
1:CX:85:GLY:HA2	1:CX:125:ASP:HB2	1.94	0.48
1:CX:164:ILE:HG22	1:CX:165:TYR:CD1	2.47	0.48
1:DI:72:ASN:O	1:DI:72:ASN:ND2	2.29	0.48
1:DK:82:SER:HB3	1:DT:75:ASN:CB	2.43	0.48
1:DT:75:ASN:HB3	1:DT:78:PHE:CE2	2.47	0.48
1:DZ:59:PHE:CD1	1:DZ:90:ILE:HG12	2.47	0.48
1:EA:140:TRP:CE2	1:IB:55:GLU:OE2	2.66	0.48
1:EG:97:ARG:HA	1:EG:112:ASP:HB3	1.95	0.48
1:EK:138:ILE:O	1:EK:142:ILE:HG13	2.13	0.48
1:EL:98:THR:HG23	1:EM:4:GLN:HB3	1.95	0.48
1:EU:153:VAL:HG13	1:EU:164:ILE:HD13	1.95	0.48
1:EX:87:LYS:HE3	1:EX:120:THR:CG2	2.43	0.48
1:FI:126:PHE:CD2	1:FI:128:LEU:HG	2.47	0.48
1:FV:55:GLU:OE2	1:FW:140:TRP:NE1	2.46	0.48
1:GQ:67:VAL:HG21	1:GQ:124:ALA:HB2	1.95	0.48
1:GQ:67:VAL:HG22	1:GQ:83:SER:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GU:102:ASP:OD1	1:GU:104:ASN:N	2.45	0.48
1:HH:59:PHE:CD1	1:HH:90:ILE:HG12	2.48	0.48
1:HL:114:PRO:HG2	1:HM:67:VAL:CG1	2.41	0.48
1:HM:29:LYS:O	1:HM:47:THR:OG1	2.29	0.48
1:HW:126:PHE:CD2	1:HW:128:LEU:HG	2.48	0.48
1:AB:134:ARG:O	1:AB:137:THR:HG22	2.13	0.48
1:AD:43:THR:HG23	1:AD:58:THR:OG1	2.14	0.48
1:AE:67:VAL:HG22	1:AE:83:SER:O	2.13	0.48
1:AG:86:THR:HG21	1:BK:51:LYS:HE2	1.95	0.48
1:AU:20:PRO:HA	1:HG:14:LYS:HA	1.94	0.48
1:AW:87:LYS:HE3	1:AW:120:THR:CG2	2.43	0.48
1:BR:87:LYS:HE3	1:BR:120:THR:CG2	2.43	0.48
1:BV:97:ARG:HA	1:BV:112:ASP:HB3	1.94	0.48
1:CA:2:TYR:HB3	1:CB:100:SER:HB2	1.95	0.48
1:CA:98:THR:HG23	1:CB:4:GLN:HB3	1.95	0.48
1:CG:142:ILE:HD13	1:CH:142:ILE:HG23	1.95	0.48
1:CK:102:ASP:HA	1:FP:105:THR:HG22	1.94	0.48
1:CM:134:ARG:O	1:CM:137:THR:HG22	2.13	0.48
1:CR:44:TYR:OH	1:CS:166:GLY:O	2.31	0.48
1:CR:153:VAL:HG13	1:CR:164:ILE:HD13	1.96	0.48
1:CS:130:ASP:O	1:CS:134:ARG:HG3	2.12	0.48
1:CZ:22:TYR:HD2	1:DA:140:TRP:HA	1.77	0.48
1:DB:142:ILE:HD13	1:DC:142:ILE:HG23	1.95	0.48
1:DD:138:ILE:O	1:DD:142:ILE:HG13	2.14	0.48
1:DE:59:PHE:CD1	1:DE:90:ILE:HG12	2.47	0.48
1:DI:4:GLN:HB3	1:DJ:98:THR:HA	1.96	0.48
1:DQ:111:VAL:HG12	1:DR:78:PHE:HB3	1.94	0.48
1:DS:126:PHE:CD2	1:DS:128:LEU:HG	2.47	0.48
1:EE:43:THR:HG23	1:EE:58:THR:OG1	2.14	0.48
1:EJ:42:ALA:HB2	1:EK:162:THR:HG22	1.95	0.48
1:EL:2:TYR:HB3	1:EM:100:SER:HB2	1.95	0.48
1:ER:142:ILE:HD13	1:ES:142:ILE:HG23	1.95	0.48
1:EW:50:PRO:HG2	1:EW:53:GLN:HB3	1.95	0.48
1:EY:2:TYR:CD2	1:FK:106:GLY:HA3	2.47	0.48
1:FA:67:VAL:HG22	1:FA:83:SER:O	2.13	0.48
1:FV:114:PRO:HD3	1:FW:68:TYR:CE1	2.48	0.48
1:FY:130:ASP:HB3	1:FY:132:SER:H	1.78	0.48
1:GE:75:ASN:HB3	1:GE:78:PHE:CE2	2.48	0.48
1:GK:59:PHE:CD1	1:GK:90:ILE:HG12	2.47	0.48
1:GP:129:VAL:HG12	1:GP:134:ARG:HH21	1.79	0.48
1:HJ:102:ASP:OD1	1:HJ:104:ASN:N	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HQ:138:ILE:O	1:HQ:142:ILE:HG13	2.13	0.48
1:HX:142:ILE:HD13	1:HY:142:ILE:HG23	1.95	0.48
1:HZ:138:ILE:O	1:HZ:142:ILE:HG13	2.14	0.48
1:AC:32:TYR:HE1	1:AC:42:ALA:HB1	1.79	0.48
1:AE:55:GLU:OE2	1:AF:140:TRP:NE1	2.46	0.48
1:AE:72:ASN:O	1:AF:95:ILE:HD11	2.14	0.48
1:AG:59:PHE:CD1	1:AG:90:ILE:HG12	2.48	0.48
1:AT:59:PHE:CD1	1:AT:90:ILE:HG12	2.47	0.48
1:AV:72:ASN:O	1:AV:72:ASN:ND2	2.36	0.48
1:AZ:72:ASN:O	1:BA:95:ILE:HD11	2.14	0.48
1:AZ:114:PRO:HD3	1:BA:68:TYR:CE1	2.48	0.48
1:BF:33:MET:HE3	1:BF:45:MET:HB2	1.93	0.48
1:BF:111:VAL:HG12	1:BG:78:PHE:HB3	1.94	0.48
1:BH:126:PHE:CD2	1:BH:128:LEU:HG	2.47	0.48
1:BI:134:ARG:O	1:BI:137:THR:HG22	2.13	0.48
1:CD:134:ARG:O	1:CD:137:THR:HG22	2.13	0.48
1:CI:138:ILE:O	1:CI:142:ILE:HG13	2.14	0.48
1:CK:141:MET:HE3	1:FQ:117:THR:HG22	1.96	0.48
1:CU:101:THR:HA	1:CU:108:PRO:HA	1.95	0.48
1:DM:59:PHE:CD1	1:DM:90:ILE:HG12	2.48	0.48
1:DQ:26:LEU:HD13	1:DR:144:GLN:OE1	2.14	0.48
1:EB:33:MET:HE1	1:EB:45:MET:HB2	1.95	0.48
1:ER:157:LEU:HG	1:ER:164:ILE:HD11	1.94	0.48
1:ET:140:TRP:HA	1:EU:22:TYR:HD2	1.78	0.48
1:EY:102:ASP:OD1	1:EY:104:ASN:N	2.45	0.48
1:FF:101:THR:HA	1:FF:108:PRO:HA	1.95	0.48
1:FR:138:ILE:O	1:FR:142:ILE:HG13	2.12	0.48
1:FU:43:THR:HG23	1:FU:58:THR:OG1	2.14	0.48
1:FX:84:LYS:HE2	1:HA:74:GLN:O	2.13	0.48
1:GF:102:ASP:HB3	1:GF:105:THR:O	2.12	0.48
1:GL:99:GLN:CB	1:GL:110:ILE:HG12	2.43	0.48
1:GM:72:ASN:O	1:GM:72:ASN:ND2	2.36	0.48
1:GN:87:LYS:HE3	1:GN:120:THR:CG2	2.43	0.48
1:GQ:72:ASN:O	1:GR:95:ILE:HD11	2.14	0.48
1:GY:85:GLY:HA2	1:GY:125:ASP:HB2	1.94	0.48
1:HV:162:THR:HG21	1:HW:40:ASN:OD1	2.12	0.48
1:HZ:75:ASN:HB3	1:HZ:78:PHE:CE2	2.48	0.48
1:AH:130:ASP:HB3	1:AH:132:SER:H	1.78	0.48
1:AP:126:PHE:CD2	1:AP:128:LEU:HG	2.48	0.48
1:AS:40:ASN:OD1	1:AT:162:THR:HG21	2.14	0.48
1:AV:138:ILE:O	1:AV:142:ILE:HG13	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AW:59:PHE:HD1	1:AW:90:ILE:HG12	1.77	0.48
1:AZ:67:VAL:HG22	1:AZ:83:SER:O	2.14	0.48
1:BF:138:ILE:O	1:BF:142:ILE:HG13	2.12	0.48
1:BN:75:ASN:HB3	1:BN:78:PHE:CE2	2.48	0.48
1:BU:67:VAL:HG21	1:BU:124:ALA:HB2	1.95	0.48
1:BY:144:GLN:HA	1:BZ:23:GLN:HB2	1.95	0.48
1:CA:4:GLN:HB3	1:CB:98:THR:HA	1.95	0.48
1:CI:140:TRP:HA	1:CJ:22:TYR:HD2	1.78	0.48
1:CJ:105:THR:HG22	1:FQ:102:ASP:HA	1.96	0.48
1:CK:22:TYR:HD2	1:FQ:140:TRP:HA	1.77	0.48
1:CS:68:TYR:CD1	1:CS:73:VAL:HG21	2.46	0.48
1:CY:75:ASN:HB3	1:CY:78:PHE:CE2	2.48	0.48
1:DD:85:GLY:HA2	1:DD:125:ASP:N	2.25	0.48
1:DK:67:VAL:HG22	1:DK:83:SER:O	2.13	0.48
1:DK:114:PRO:HD3	1:DL:68:TYR:CE1	2.48	0.48
1:EL:26:LEU:HD13	1:EM:144:GLN:OE1	2.14	0.48
1:ET:138:ILE:O	1:ET:142:ILE:HG13	2.14	0.48
1:EY:4:GLN:HB3	1:EZ:98:THR:HA	1.96	0.48
1:FE:67:VAL:HG22	1:FE:83:SER:O	2.14	0.48
1:FL:126:PHE:CD2	1:FL:128:LEU:HG	2.48	0.48
1:FW:97:ARG:HA	1:FW:112:ASP:HB3	1.95	0.48
1:GB:2:TYR:HB3	1:GC:100:SER:HB2	1.95	0.48
1:GB:26:LEU:HD13	1:GC:144:GLN:OE1	2.14	0.48
1:GM:33:MET:HE1	1:GM:45:MET:HB2	1.94	0.48
1:GR:103:VAL:HG23	1:GY:104:ASN:O	2.13	0.48
1:HA:140:TRP:HA	1:HB:22:TYR:HD2	1.79	0.48
1:HC:85:GLY:HA2	1:HC:125:ASP:N	2.27	0.48
1:HL:2:TYR:HD2	1:HT:106:GLY:HA3	1.77	0.48
1:HL:82:SER:HB3	1:HU:75:ASN:CB	2.43	0.48
1:HP:144:GLN:HA	1:HQ:23:GLN:HB2	1.95	0.48
1:HV:140:TRP:HA	1:HW:22:TYR:HD2	1.79	0.48
1:IB:99:GLN:CB	1:IB:110:ILE:HG12	2.43	0.48
1:AE:2:TYR:HD2	1:AM:106:GLY:HA3	1.77	0.48
1:AG:157:LEU:HG	1:AG:164:ILE:HD11	1.96	0.48
1:AK:26:LEU:HD13	1:AL:144:GLN:OE1	2.14	0.48
1:AS:138:ILE:O	1:AS:142:ILE:HG13	2.14	0.48
1:AU:98:THR:HA	1:HG:4:GLN:CB	2.41	0.48
1:AY:43:THR:HG23	1:AY:58:THR:OG1	2.14	0.48
1:BF:2:TYR:HB3	1:BG:100:SER:HB2	1.95	0.48
1:BQ:26:LEU:HD13	1:BR:144:GLN:NE2	2.29	0.48
1:CL:50:PRO:HG2	1:CL:53:GLN:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CL:138:ILE:O	1:CL:142:ILE:HG13	2.12	0.48
1:CP:72:ASN:O	1:CQ:95:ILE:HD11	2.14	0.48
1:CV:98:THR:HG23	1:CW:4:GLN:HB3	1.95	0.48
1:CY:134:ARG:O	1:CY:137:THR:HG22	2.13	0.48
1:DH:134:ARG:O	1:DH:137:THR:HG22	2.13	0.48
1:DM:157:LEU:HG	1:DM:164:ILE:HD11	1.96	0.48
1:DO:77:THR:OG1	1:DX:82:SER:OG	2.21	0.48
1:DU:102:ASP:HB3	1:DU:105:THR:O	2.12	0.48
1:DY:140:TRP:HA	1:DZ:22:TYR:HD2	1.78	0.48
1:EF:67:VAL:HG21	1:EF:124:ALA:HB2	1.95	0.48
1:EF:102:ASP:OD1	1:EF:104:ASN:N	2.46	0.48
1:EJ:67:VAL:HG22	1:EJ:83:SER:O	2.14	0.48
1:EV:33:MET:SD	1:EV:45:MET:HB2	2.53	0.48
1:EW:72:ASN:O	1:EX:95:ILE:HD11	2.13	0.48
1:FE:95:ILE:HD11	1:FE:112:ASP:CG	2.33	0.48
1:FE:102:ASP:OD1	1:FE:104:ASN:N	2.45	0.48
1:FQ:99:GLN:CB	1:FQ:110:ILE:HG12	2.43	0.48
1:FV:114:PRO:HG2	1:FW:67:VAL:CG1	2.41	0.48
1:FX:59:PHE:CD1	1:FX:90:ILE:HG12	2.48	0.48
1:FY:130:ASP:O	1:FY:134:ARG:HG3	2.12	0.48
1:GB:81:SER:OG	1:GH:75:ASN:ND2	2.45	0.48
1:GM:26:LEU:HD13	1:GN:144:GLN:NE2	2.29	0.48
1:GO:29:LYS:O	1:GO:47:THR:OG1	2.22	0.48
1:GO:32:TYR:HE1	1:GO:42:ALA:HB1	1.79	0.48
1:HE:138:ILE:O	1:HE:142:ILE:HG13	2.14	0.48
1:HH:50:PRO:HG2	1:HH:53:GLN:HB3	1.95	0.48
1:HN:157:LEU:HG	1:HN:164:ILE:HD11	1.96	0.48
1:HP:42:ALA:HB2	1:HQ:162:THR:HG22	1.95	0.48
1:HR:53:GLN:NE2	1:HR:97:ARG:HB3	2.27	0.48
1:HT:147:LEU:HD21	1:HU:138:ILE:HG21	1.95	0.48
1:HU:75:ASN:HB3	1:HU:78:PHE:CE2	2.47	0.48
1:HZ:140:TRP:HA	1:IA:22:TYR:HD2	1.78	0.48
1:AF:103:VAL:HG23	1:AM:104:ASN:O	2.13	0.48
1:AJ:138:ILE:O	1:AJ:142:ILE:HG13	2.13	0.48
1:AT:75:ASN:ND2	1:FZ:81:SER:HB3	2.27	0.48
1:AT:85:GLY:HA2	1:AT:125:ASP:N	2.28	0.48
1:BB:44:TYR:OH	1:BC:166:GLY:O	2.31	0.48
1:BB:153:VAL:HG13	1:BB:164:ILE:HD13	1.96	0.48
1:BQ:72:ASN:O	1:BQ:72:ASN:ND2	2.35	0.48
1:CP:67:VAL:HG22	1:CP:83:SER:O	2.14	0.48
1:DW:142:ILE:HD13	1:DX:142:ILE:HG23	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:113:CYS:HB2	1:IB:124:ALA:HB3	1.94	0.48
1:EH:157:LEU:HG	1:EH:164:ILE:HD11	1.96	0.48
1:EK:101:THR:HA	1:EK:108:PRO:HA	1.95	0.48
1:FC:153:VAL:HG13	1:FC:164:ILE:HD13	1.96	0.48
1:FO:40:ASN:OD1	1:FP:162:THR:HG21	2.14	0.48
1:FR:112:ASP:O	1:FS:76:GLN:NE2	2.46	0.48
1:FR:142:ILE:HG23	1:FS:142:ILE:HD13	1.94	0.48
1:FU:129:VAL:HG12	1:FU:134:ARG:HH21	1.78	0.48
1:GD:85:GLY:HA2	1:GD:125:ASP:HB2	1.94	0.48
1:GM:29:LYS:O	1:GM:47:THR:OG1	2.26	0.48
1:GO:116:TRP:CZ3	1:GP:67:VAL:HG13	2.42	0.48
1:GP:43:THR:HG23	1:GP:58:THR:OG1	2.14	0.48
1:GU:95:ILE:HD11	1:GU:112:ASP:CG	2.33	0.48
1:HA:102:ASP:HB3	1:HA:105:THR:O	2.12	0.48
1:HI:87:LYS:HE3	1:HI:120:THR:CG2	2.43	0.48
1:HJ:32:TYR:HE1	1:HJ:42:ALA:HB1	1.79	0.48
1:HK:129:VAL:HG12	1:HK:134:ARG:HH21	1.79	0.48
1:AE:114:PRO:HG2	1:AF:67:VAL:CG1	2.41	0.48
1:AG:147:LEU:HD21	1:AH:138:ILE:HG21	1.96	0.48
1:AK:4:GLN:HB3	1:AL:98:THR:HA	1.95	0.48
1:AK:32:TYR:HE1	1:AK:42:ALA:HB1	1.79	0.48
1:AN:134:ARG:O	1:AN:137:THR:HG22	2.13	0.48
1:AO:22:TYR:HD2	1:AP:140:TRP:HA	1.77	0.48
1:AP:85:GLY:HA2	1:AP:125:ASP:HB2	1.94	0.48
1:AT:153:VAL:HG13	1:AT:164:ILE:HD13	1.95	0.48
1:AU:34:ASP:OD2	1:AU:36:SER:HB3	2.14	0.48
1:BQ:50:PRO:HG2	1:BQ:53:GLN:HB3	1.95	0.48
1:BU:102:ASP:OD1	1:BU:104:ASN:N	2.46	0.48
1:BV:103:VAL:HG23	1:CC:104:ASN:O	2.13	0.48
1:CE:67:VAL:HG22	1:CE:83:SER:O	2.14	0.48
1:CQ:97:ARG:HA	1:CQ:112:ASP:HB3	1.95	0.48
1:DA:129:VAL:HG23	1:DA:134:ARG:NH1	2.29	0.48
1:DG:26:LEU:HD13	1:DH:144:GLN:NE2	2.29	0.48
1:DG:72:ASN:O	1:DH:95:ILE:HD11	2.13	0.48
1:DI:32:TYR:HE1	1:DI:42:ALA:HB1	1.79	0.48
1:DL:97:ARG:HA	1:DL:112:ASP:HB3	1.95	0.48
1:DM:153:VAL:HG13	1:DM:164:ILE:HD13	1.96	0.48
1:DO:144:GLN:HA	1:DP:23:GLN:HB2	1.95	0.48
1:DY:40:ASN:OD1	1:DZ:162:THR:HG21	2.14	0.48
1:EA:34:ASP:OD2	1:EA:36:SER:HB3	2.14	0.48
1:EA:140:TRP:HA	1:IB:22:TYR:HD2	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EB:72:ASN:O	1:EC:95:ILE:HD11	2.13	0.48
1:EH:59:PHE:CD1	1:EH:90:ILE:HG12	2.48	0.48
1:EJ:102:ASP:OD1	1:EJ:104:ASN:N	2.45	0.48
1:FC:157:LEU:HG	1:FC:164:ILE:HD11	1.96	0.48
1:FF:51:LYS:NZ	1:FN:131:ASP:OD1	2.38	0.48
1:FG:2:TYR:HB3	1:FH:100:SER:HB2	1.95	0.48
1:FR:26:LEU:HD13	1:FS:144:GLN:NE2	2.29	0.48
1:FV:33:MET:HE3	1:FV:45:MET:HB2	1.96	0.48
1:FV:82:SER:HB3	1:GE:75:ASN:CB	2.43	0.48
1:GF:140:TRP:HA	1:GG:22:TYR:HD2	1.79	0.48
1:GG:99:GLN:CB	1:GG:110:ILE:HG12	2.42	0.48
1:GK:153:VAL:HG13	1:GK:164:ILE:HD13	1.95	0.48
1:GQ:82:SER:HB3	1:GZ:75:ASN:CB	2.43	0.48
1:GY:85:GLY:HA2	1:GY:125:ASP:N	2.26	0.48
1:HN:147:LEU:HD21	1:HO:138:ILE:HG21	1.96	0.48
1:HR:4:GLN:HB3	1:HS:98:THR:HA	1.95	0.48
1:AC:102:ASP:OD1	1:AC:104:ASN:N	2.45	0.48
1:AJ:51:LYS:NZ	1:AR:131:ASP:OD1	2.38	0.48
1:AU:19:ILE:O	1:HG:15:ASP:N	2.47	0.48
1:AZ:2:TYR:HD2	1:BH:106:GLY:HA3	1.78	0.48
1:BN:138:ILE:O	1:BN:142:ILE:HG13	2.14	0.48
1:CA:81:SER:OG	1:CG:75:ASN:ND2	2.45	0.48
1:CL:72:ASN:O	1:CL:72:ASN:ND2	2.36	0.48
1:CL:106:GLY:HA3	1:DH:1:SER:H2	1.79	0.48
1:CP:82:SER:HB3	1:CY:75:ASN:CB	2.43	0.48
1:CP:102:ASP:OD1	1:CP:104:ASN:N	2.46	0.48
1:CR:147:LEU:HD21	1:CS:138:ILE:HG21	1.96	0.48
1:CX:147:LEU:HD21	1:CY:138:ILE:HG21	1.95	0.48
1:DF:98:THR:HG23	1:EV:2:TYR:CD1	2.49	0.48
1:DK:166:GLY:O	1:DL:44:TYR:OH	2.32	0.48
1:DO:102:ASP:OD1	1:DO:104:ASN:N	2.45	0.48
1:DW:85:GLY:HA2	1:DW:125:ASP:N	2.27	0.48
1:EA:55:GLU:OE2	1:IB:140:TRP:CE2	2.67	0.48
1:EF:67:VAL:HG22	1:EF:83:SER:O	2.14	0.48
1:EL:4:GLN:HB3	1:EM:98:THR:HA	1.95	0.48
1:EP:67:VAL:HG22	1:EP:83:SER:O	2.14	0.48
1:ET:40:ASN:OD1	1:EU:162:THR:HG21	2.14	0.48
1:FI:55:GLU:OE1	1:FJ:8:TYR:CE1	2.66	0.48
1:FI:110:ILE:HB	1:FJ:78:PHE:CD1	2.49	0.48
1:FL:129:VAL:HG23	1:FL:134:ARG:NH1	2.29	0.48
1:FO:138:ILE:O	1:FO:142:ILE:HG13	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FT:4:GLN:HB3	1:FU:98:THR:HA	1.96	0.48
1:FV:53:GLN:NE2	1:FV:97:ARG:HB3	2.29	0.48
1:GN:74:GLN:OE1	1:HI:127:THR:HA	2.14	0.48
1:GQ:53:GLN:NE2	1:GQ:97:ARG:HB3	2.29	0.48
1:GS:147:LEU:HD21	1:GT:138:ILE:HG21	1.96	0.48
1:GU:144:GLN:HA	1:GV:23:GLN:HB2	1.95	0.48
1:HB:129:VAL:HG23	1:HB:134:ARG:NH1	2.29	0.48
1:HC:142:ILE:HD13	1:HD:142:ILE:HG23	1.95	0.48
1:HG:99:GLN:CB	1:HG:110:ILE:HG12	2.43	0.48
1:HK:43:THR:HG23	1:HK:58:THR:OG1	2.14	0.48
1:HL:114:PRO:HD3	1:HM:68:TYR:CE1	2.48	0.48
1:HR:98:THR:HG23	1:HS:4:GLN:HB3	1.95	0.48
1:HT:85:GLY:HA2	1:HT:125:ASP:HB2	1.94	0.48
1:HV:67:VAL:HG22	1:HV:83:SER:O	2.14	0.48
1:HZ:4:GLN:HA	1:IA:97:ARG:O	2.12	0.48
1:AB:125:ASP:HB3	1:DH:74:GLN:HA	1.95	0.48
1:AM:110:ILE:HB	1:AN:78:PHE:CD1	2.49	0.48
1:AN:85:GLY:HA2	1:AN:125:ASP:N	2.27	0.48
1:AP:129:VAL:HG23	1:AP:134:ARG:NH1	2.29	0.48
1:AQ:142:ILE:HD13	1:AR:142:ILE:HG23	1.95	0.48
1:AV:26:LEU:HD13	1:AW:144:GLN:NE2	2.29	0.48
1:AX:32:TYR:HE1	1:AX:42:ALA:HB1	1.79	0.48
1:BF:26:LEU:HD13	1:BG:144:GLN:OE1	2.14	0.48
1:BH:85:GLY:HA2	1:BH:125:ASP:HB2	1.94	0.48
1:BJ:67:VAL:HG22	1:BJ:83:SER:O	2.14	0.48
1:BP:34:ASP:OD2	1:BP:36:SER:HB3	2.14	0.48
1:BT:43:THR:HG23	1:BT:58:THR:OG1	2.14	0.48
1:BZ:101:THR:HA	1:BZ:108:PRO:HA	1.95	0.48
1:CJ:153:VAL:HG13	1:CJ:164:ILE:HD13	1.95	0.48
1:CO:43:THR:HG23	1:CO:58:THR:OG1	2.14	0.48
1:CX:55:GLU:OE1	1:CY:8:TYR:CE1	2.66	0.48
1:DK:72:ASN:O	1:DL:95:ILE:HD11	2.14	0.48
1:DO:111:VAL:HG12	1:DP:78:PHE:HB3	1.96	0.48
1:DS:110:ILE:HB	1:DT:78:PHE:CD1	2.49	0.48
1:DS:147:LEU:HD21	1:DT:138:ILE:HG21	1.95	0.48
1:DV:99:GLN:CB	1:DV:110:ILE:HG12	2.42	0.48
1:EB:50:PRO:HG2	1:EB:53:GLN:HB3	1.95	0.48
1:EF:72:ASN:O	1:EG:95:ILE:HD11	2.14	0.48
1:EO:85:GLY:HA2	1:EO:125:ASP:N	2.27	0.48
1:EZ:129:VAL:HG12	1:EZ:134:ARG:HH21	1.79	0.48
1:FA:67:VAL:HG21	1:FA:124:ALA:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FE:77:THR:OG1	1:FN:82:SER:OG	2.21	0.48
1:FS:134:ARG:O	1:FS:137:THR:HG22	2.13	0.48
1:GB:33:MET:HE3	1:GB:45:MET:HB2	1.96	0.48
1:GH:142:ILE:HD13	1:GI:142:ILE:HG23	1.96	0.48
1:GM:50:PRO:HG2	1:GM:53:GLN:HB3	1.95	0.48
1:GS:44:TYR:OH	1:GT:166:GLY:O	2.31	0.48
1:GZ:85:GLY:HA2	1:GZ:125:ASP:N	2.28	0.48
1:HE:40:ASN:OD1	1:HF:162:THR:HG21	2.14	0.48
1:HI:134:ARG:O	1:HI:137:THR:HG22	2.13	0.48
1:HQ:101:THR:HA	1:HQ:108:PRO:HA	1.95	0.48
1:HZ:40:ASN:OD1	1:IA:162:THR:HG21	2.14	0.48
1:HZ:134:ARG:HA	1:HZ:137:THR:HG22	1.96	0.48
1:AD:129:VAL:HG12	1:AD:134:ARG:HH21	1.79	0.47
1:CG:85:GLY:HA2	1:CG:125:ASP:N	2.27	0.47
1:CN:102:ASP:OD1	1:CN:104:ASN:N	2.46	0.47
1:CO:103:VAL:HG23	1:CZ:104:ASN:O	2.14	0.47
1:CP:97:ARG:HA	1:CP:112:ASP:HB3	1.96	0.47
1:CR:59:PHE:CD1	1:CR:90:ILE:HG12	2.48	0.47
1:CR:157:LEU:HG	1:CR:164:ILE:HD11	1.96	0.47
1:CT:42:ALA:HB2	1:CU:162:THR:HG22	1.95	0.47
1:CT:67:VAL:HG22	1:CT:83:SER:O	2.14	0.47
1:DD:140:TRP:HA	1:DE:22:TYR:HD2	1.77	0.47
1:DK:53:GLN:NE2	1:DK:97:ARG:HB3	2.29	0.47
1:DK:97:ARG:HA	1:DK:112:ASP:HB3	1.96	0.47
1:DO:67:VAL:HG22	1:DO:83:SER:O	2.14	0.47
1:DT:134:ARG:O	1:DT:137:THR:HG22	2.13	0.47
1:ED:4:GLN:HB3	1:EE:98:THR:HA	1.96	0.47
1:EJ:95:ILE:HD11	1:EJ:112:ASP:CG	2.33	0.47
1:EZ:43:THR:HG23	1:EZ:58:THR:OG1	2.14	0.47
1:FE:153:VAL:HG13	1:FE:164:ILE:HD13	1.96	0.47
1:FK:102:ASP:HB3	1:FK:105:THR:O	2.12	0.47
1:GJ:40:ASN:OD1	1:GK:162:THR:HG21	2.14	0.47
1:GJ:134:ARG:HA	1:GJ:137:THR:HG22	1.96	0.47
1:GW:4:GLN:HB3	1:GX:98:THR:HA	1.95	0.47
1:HA:67:VAL:HG22	1:HA:83:SER:O	2.14	0.47
1:HL:67:VAL:HG21	1:HL:124:ALA:HB2	1.95	0.47
1:HL:72:ASN:O	1:HM:95:ILE:HD11	2.14	0.47
1:AZ:82:SER:HB3	1:BI:75:ASN:CB	2.43	0.47
1:AZ:114:PRO:HG2	1:BA:67:VAL:CG1	2.41	0.47
1:BD:142:ILE:HD13	1:BE:142:ILE:HG23	1.96	0.47
1:BF:81:SER:OG	1:BL:75:ASN:ND2	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BN:40:ASN:OD1	1:BO:162:THR:HG21	2.14	0.47
1:BR:59:PHE:HD1	1:BR:90:ILE:HG12	1.77	0.47
1:BY:153:VAL:HG13	1:BY:164:ILE:HD13	1.96	0.47
1:CK:99:GLN:CB	1:CK:110:ILE:HG12	2.43	0.47
1:CP:53:GLN:NE2	1:CP:97:ARG:HB3	2.29	0.47
1:CV:2:TYR:HB3	1:CW:100:SER:HB2	1.95	0.47
1:CV:32:TYR:HE1	1:CV:42:ALA:HB1	1.79	0.47
1:DF:96:TRP:NE1	1:EV:4:GLN:OE1	2.47	0.47
1:DK:136:SER:HG	1:DL:22:TYR:HH	1.61	0.47
1:EA:85:GLY:HA2	1:EA:125:ASP:N	2.29	0.47
1:EO:75:ASN:HB3	1:EO:78:PHE:CE2	2.47	0.47
1:EY:67:VAL:HG22	1:EY:83:SER:O	2.15	0.47
1:FA:166:GLY:O	1:FB:44:TYR:OH	2.32	0.47
1:FY:102:ASP:HA	1:HB:105:THR:HG22	1.96	0.47
1:FZ:144:GLN:HA	1:GA:23:GLN:HB2	1.95	0.47
1:GF:67:VAL:HG22	1:GF:83:SER:O	2.14	0.47
1:GG:129:VAL:HG23	1:GG:134:ARG:NH1	2.29	0.47
1:GJ:102:ASP:HB2	1:GJ:109:VAL:HG23	1.97	0.47
1:GM:104:ASN:O	1:HH:103:VAL:HG23	2.13	0.47
1:GQ:55:GLU:OE2	1:GR:140:TRP:NE1	2.46	0.47
1:GS:59:PHE:CD1	1:GS:90:ILE:HG12	2.48	0.47
1:HL:67:VAL:CG1	1:HL:85:GLY:HA3	2.45	0.47
1:HL:67:VAL:HG22	1:HL:83:SER:O	2.14	0.47
1:HP:102:ASP:OD1	1:HP:104:ASN:N	2.45	0.47
1:HT:55:GLU:OE1	1:HU:8:TYR:CE1	2.66	0.47
1:HU:134:ARG:O	1:HU:137:THR:HG22	2.13	0.47
1:AA:147:LEU:HD21	1:AB:138:ILE:HG21	1.97	0.47
1:AB:74:GLN:NE2	1:AW:126:PHE:O	2.47	0.47
1:AE:97:ARG:HA	1:AE:112:ASP:HB3	1.96	0.47
1:AH:125:ASP:O	1:AJ:75:ASN:ND2	2.48	0.47
1:AI:67:VAL:HG22	1:AI:83:SER:O	2.14	0.47
1:AS:106:GLY:HA3	1:FZ:2:TYR:CD2	2.48	0.47
1:AX:112:ASP:O	1:AY:76:GLN:NE2	2.30	0.47
1:BU:67:VAL:HG22	1:BU:83:SER:O	2.14	0.47
1:BU:97:ARG:HA	1:BU:112:ASP:HB3	1.96	0.47
1:BW:153:VAL:HG13	1:BW:164:ILE:HD13	1.96	0.47
1:CK:34:ASP:OD2	1:CK:36:SER:HB3	2.14	0.47
1:CP:67:VAL:CG1	1:CP:85:GLY:HA3	2.44	0.47
1:CS:125:ASP:O	1:CU:75:ASN:ND2	2.48	0.47
1:CV:81:SER:OG	1:DB:75:ASN:ND2	2.45	0.47
1:DD:40:ASN:OD1	1:DE:162:THR:HG21	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DF:99:GLN:CB	1:DF:110:ILE:HG12	2.43	0.47
1:DI:67:VAL:HG22	1:DI:83:SER:O	2.15	0.47
1:DN:125:ASP:O	1:DP:75:ASN:ND2	2.48	0.47
1:DN:130:ASP:HB3	1:DN:132:SER:H	1.78	0.47
1:DQ:32:TYR:HE1	1:DQ:42:ALA:HB1	1.79	0.47
1:DV:129:VAL:HG23	1:DV:134:ARG:NH1	2.29	0.47
1:DY:102:ASP:HB2	1:DY:109:VAL:HG23	1.97	0.47
1:EB:26:LEU:HD13	1:EC:144:GLN:NE2	2.29	0.47
1:EB:111:VAL:HG12	1:EC:78:PHE:HB3	1.97	0.47
1:EE:129:VAL:HG12	1:EE:134:ARG:HH21	1.79	0.47
1:EF:82:SER:HB3	1:EO:75:ASN:CB	2.43	0.47
1:EJ:17:LEU:HD12	1:EK:19:ILE:HD12	1.97	0.47
1:ES:29:LYS:O	1:ES:47:THR:OG1	2.21	0.47
1:EV:157:LEU:HG	1:EV:164:ILE:HD11	1.96	0.47
1:FA:53:GLN:NE2	1:FA:97:ARG:HB3	2.29	0.47
1:FO:134:ARG:HA	1:FO:137:THR:HG22	1.96	0.47
1:FQ:157:LEU:HG	1:FQ:164:ILE:HD11	1.96	0.47
1:FR:72:ASN:O	1:FS:95:ILE:HD11	2.13	0.47
1:FZ:17:LEU:HD12	1:GA:19:ILE:HD12	1.97	0.47
1:FZ:111:VAL:HG12	1:GA:78:PHE:HB3	1.96	0.47
1:GJ:138:ILE:O	1:GJ:142:ILE:HG13	2.14	0.47
1:GL:157:LEU:HG	1:GL:164:ILE:HD11	1.96	0.47
1:GM:111:VAL:HG12	1:GN:78:PHE:HB3	1.97	0.47
1:GO:4:GLN:HB3	1:GP:98:THR:HA	1.96	0.47
1:GS:111:VAL:HG12	1:GT:78:PHE:HB3	1.97	0.47
1:GY:147:LEU:HD21	1:GZ:138:ILE:HG21	1.95	0.47
1:GZ:75:ASN:HB3	1:GZ:78:PHE:CE2	2.47	0.47
1:HE:102:ASP:HB2	1:HE:109:VAL:HG23	1.96	0.47
1:IA:153:VAL:HG13	1:IA:164:ILE:HD13	1.95	0.47
1:AI:111:VAL:HG12	1:AJ:78:PHE:HB3	1.96	0.47
1:AO:140:TRP:HA	1:AP:22:TYR:HD2	1.79	0.47
1:AQ:85:GLY:HA2	1:AQ:125:ASP:N	2.27	0.47
1:AW:75:ASN:ND2	1:BR:84:LYS:HG2	2.30	0.47
1:BB:111:VAL:HG12	1:BC:78:PHE:HB3	1.96	0.47
1:BB:147:LEU:HD21	1:BC:138:ILE:HG21	1.96	0.47
1:BD:67:VAL:HG22	1:BD:83:SER:O	2.14	0.47
1:BF:4:GLN:HB3	1:BG:98:THR:HA	1.95	0.47
1:BF:98:THR:HG23	1:BG:4:GLN:HB3	1.95	0.47
1:BU:72:ASN:O	1:BV:95:ILE:HD11	2.14	0.47
1:BY:17:LEU:HD12	1:BZ:19:ILE:HD12	1.96	0.47
1:BY:67:VAL:HG22	1:BY:83:SER:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BY:111:VAL:HG12	1:BZ:78:PHE:HB3	1.96	0.47
1:CA:26:LEU:HD13	1:CB:144:GLN:OE1	2.14	0.47
1:CC:162:THR:HG21	1:CD:40:ASN:OD1	2.15	0.47
1:CG:118:SER:HB2	1:CH:120:THR:HB	1.96	0.47
1:CI:134:ARG:HA	1:CI:137:THR:HG22	1.96	0.47
1:CN:67:VAL:HG22	1:CN:83:SER:O	2.15	0.47
1:CO:129:VAL:HG12	1:CO:134:ARG:HH21	1.79	0.47
1:CS:130:ASP:HB3	1:CS:132:SER:H	1.78	0.47
1:CT:157:LEU:HG	1:CT:164:ILE:HD11	1.97	0.47
1:CZ:85:GLY:HA2	1:CZ:125:ASP:N	2.28	0.47
1:DE:153:VAL:HG13	1:DE:164:ILE:HD13	1.95	0.47
1:DO:142:ILE:HD13	1:DP:142:ILE:HG23	1.96	0.47
1:DW:8:TYR:CE1	1:DX:55:GLU:OE1	2.68	0.47
1:EA:99:GLN:CB	1:EA:110:ILE:HG12	2.43	0.47
1:EC:87:LYS:HE3	1:EC:120:THR:CG2	2.43	0.47
1:ER:85:GLY:HA2	1:ER:125:ASP:N	2.27	0.47
1:ET:102:ASP:HB2	1:ET:109:VAL:HG23	1.96	0.47
1:FG:32:TYR:HE1	1:FG:42:ALA:HB1	1.79	0.47
1:FI:59:PHE:HD1	1:FI:90:ILE:HG12	1.80	0.47
1:FR:147:LEU:HD21	1:FS:138:ILE:HG21	1.97	0.47
1:FV:72:ASN:O	1:FW:95:ILE:HD11	2.14	0.47
1:GH:118:SER:HB2	1:GI:120:THR:HB	1.96	0.47
1:HD:126:PHE:HD2	1:HD:128:LEU:HG	1.76	0.47
1:HH:147:LEU:HD21	1:HI:138:ILE:HG21	1.97	0.47
1:HL:102:ASP:OD1	1:HL:104:ASN:N	2.46	0.47
1:HN:153:VAL:HG13	1:HN:164:ILE:HD13	1.96	0.47
1:HP:142:ILE:HD13	1:HQ:142:ILE:HG23	1.96	0.47
1:HW:99:GLN:CB	1:HW:110:ILE:HG12	2.42	0.47
1:HW:129:VAL:HG23	1:HW:134:ARG:NH1	2.29	0.47
1:IB:157:LEU:HG	1:IB:164:ILE:HD11	1.96	0.47
1:AE:29:LYS:O	1:AE:47:THR:OG1	2.25	0.47
1:AJ:130:ASP:HB2	1:AJ:133:ALA:H	1.80	0.47
1:AM:147:LEU:HD21	1:AN:138:ILE:HG21	1.95	0.47
1:AM:162:THR:HG21	1:AN:40:ASN:OD1	2.15	0.47
1:AO:67:VAL:HG22	1:AO:83:SER:O	2.14	0.47
1:AV:50:PRO:HG2	1:AV:53:GLN:HB3	1.95	0.47
1:AY:103:VAL:HG23	1:BJ:104:ASN:O	2.14	0.47
1:BB:157:LEU:HG	1:BB:164:ILE:HD11	1.96	0.47
1:BE:26:LEU:O	1:BE:30:ALA:HB2	2.15	0.47
1:BN:110:ILE:HB	1:BO:78:PHE:CE1	2.50	0.47
1:BS:32:TYR:HE1	1:BS:42:ALA:HB1	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BU:53:GLN:NE2	1:BU:97:ARG:HB3	2.29	0.47
1:CA:32:TYR:HE1	1:CA:42:ALA:HB1	1.79	0.47
1:CP:166:GLY:O	1:CQ:44:TYR:OH	2.32	0.47
1:CX:110:ILE:HB	1:CY:78:PHE:CD1	2.49	0.47
1:DB:118:SER:HB2	1:DC:120:THR:HB	1.96	0.47
1:DH:157:LEU:CG	1:DH:164:ILE:HD11	2.38	0.47
1:DI:37:GLN:HG3	1:DI:58:THR:HG21	1.97	0.47
1:DK:67:VAL:CG1	1:DK:85:GLY:HA3	2.45	0.47
1:DP:104:ASN:ND2	1:GV:104:ASN:ND2	2.63	0.47
1:DY:134:ARG:HA	1:DY:137:THR:HG22	1.96	0.47
1:EF:67:VAL:CG1	1:EF:85:GLY:HA3	2.45	0.47
1:EI:130:ASP:HB3	1:EI:132:SER:H	1.78	0.47
1:EJ:77:THR:OG1	1:ES:82:SER:OG	2.21	0.47
1:EO:134:ARG:O	1:EO:137:THR:HG22	2.13	0.47
1:EW:111:VAL:HG12	1:EX:78:PHE:HB3	1.97	0.47
1:FA:82:SER:HB3	1:FJ:75:ASN:CB	2.43	0.47
1:FE:142:ILE:HD13	1:FF:142:ILE:HG23	1.96	0.47
1:FI:85:GLY:HA2	1:FI:125:ASP:N	2.26	0.47
1:FV:97:ARG:HA	1:FV:112:ASP:HB3	1.96	0.47
1:GE:85:GLY:HA2	1:GE:125:ASP:N	2.27	0.47
1:GL:34:ASP:OD2	1:GL:36:SER:HB3	2.14	0.47
1:GS:153:VAL:HG13	1:GS:164:ILE:HD13	1.96	0.47
1:GU:153:VAL:HG13	1:GU:164:ILE:HD13	1.96	0.47
1:HC:8:TYR:CE1	1:HD:55:GLU:OE1	2.68	0.47
1:HL:32:TYR:HE1	1:HL:42:ALA:HB1	1.80	0.47
1:HN:111:VAL:HG12	1:HO:78:PHE:HB3	1.97	0.47
1:HR:26:LEU:HD13	1:HS:144:GLN:OE1	2.14	0.47
1:HT:110:ILE:HB	1:HU:78:PHE:CD1	2.49	0.47
1:HU:85:GLY:HA2	1:HU:125:ASP:N	2.28	0.47
1:AH:103:VAL:HG23	1:BK:104:ASN:O	2.13	0.47
1:AI:153:VAL:HG13	1:AI:164:ILE:HD13	1.96	0.47
1:AK:2:TYR:HB3	1:AL:100:SER:HB2	1.95	0.47
1:AQ:118:SER:HB2	1:AR:120:THR:HB	1.96	0.47
1:AS:134:ARG:HA	1:AS:137:THR:HG22	1.96	0.47
1:AX:4:GLN:HB3	1:AY:98:THR:HA	1.96	0.47
1:AZ:32:TYR:HE1	1:AZ:42:ALA:HB1	1.80	0.47
1:BC:125:ASP:O	1:BE:75:ASN:ND2	2.48	0.47
1:BD:144:GLN:HA	1:BE:23:GLN:HB2	1.95	0.47
1:BF:32:TYR:HE1	1:BF:42:ALA:HB1	1.79	0.47
1:BH:162:THR:HG21	1:BI:40:ASN:OD1	2.15	0.47
1:CL:157:LEU:HG	1:CL:164:ILE:HD11	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CU:26:LEU:O	1:CU:30:ALA:HB2	2.15	0.47
1:CV:26:LEU:HD13	1:CW:144:GLN:OE1	2.14	0.47
1:EJ:157:LEU:HG	1:EJ:164:ILE:HD11	1.97	0.47
1:EQ:129:VAL:HG23	1:EQ:134:ARG:NH1	2.29	0.47
1:FC:33:MET:HE1	1:FC:45:MET:HB2	1.97	0.47
1:FC:44:TYR:OH	1:FD:166:GLY:O	2.31	0.47
1:FC:147:LEU:HD21	1:FD:138:ILE:HG21	1.96	0.47
1:FE:29:LYS:O	1:FE:47:THR:OG1	2.19	0.47
1:FI:162:THR:HG21	1:FJ:40:ASN:OD1	2.15	0.47
1:FX:153:VAL:HG13	1:FX:164:ILE:HD13	1.96	0.47
1:FZ:67:VAL:HG22	1:FZ:83:SER:O	2.14	0.47
1:GB:67:VAL:CG1	1:GB:85:GLY:HA3	2.45	0.47
1:GB:98:THR:HG23	1:GC:4:GLN:HB3	1.95	0.47
1:GD:59:PHE:HD1	1:GD:90:ILE:HG12	1.79	0.47
1:GD:110:ILE:HB	1:GE:78:PHE:CD1	2.49	0.47
1:GS:157:LEU:HG	1:GS:164:ILE:HD11	1.96	0.47
1:HF:153:VAL:HG13	1:HF:164:ILE:HD13	1.95	0.47
1:HH:26:LEU:HD13	1:HI:144:GLN:NE2	2.29	0.47
1:HO:125:ASP:O	1:HQ:75:ASN:ND2	2.48	0.47
1:HP:17:LEU:HD12	1:HQ:19:ILE:HD12	1.97	0.47
1:HQ:26:LEU:O	1:HQ:30:ALA:HB2	2.15	0.47
1:HR:2:TYR:HB3	1:HS:100:SER:HB2	1.95	0.47
1:AC:4:GLN:HB3	1:AD:98:THR:HA	1.96	0.47
1:AE:145:LEU:HD23	1:AE:145:LEU:HA	1.71	0.47
1:AG:2:TYR:CD2	1:BK:106:GLY:HA3	2.50	0.47
1:AI:26:LEU:HD13	1:AJ:144:GLN:OE1	2.15	0.47
1:AK:67:VAL:CG1	1:AK:85:GLY:HA3	2.45	0.47
1:AS:110:ILE:HB	1:AT:78:PHE:CE1	2.50	0.47
1:AT:104:ASN:O	1:HG:103:VAL:HG23	2.14	0.47
1:AX:29:LYS:O	1:AX:47:THR:OG1	2.22	0.47
1:AZ:53:GLN:NE2	1:AZ:97:ARG:HB3	2.29	0.47
1:AZ:67:VAL:CG1	1:AZ:85:GLY:HA3	2.45	0.47
1:BE:130:ASP:HB2	1:BE:133:ALA:H	1.80	0.47
1:BF:67:VAL:CG1	1:BF:85:GLY:HA3	2.45	0.47
1:BL:142:ILE:HD13	1:BM:142:ILE:HG23	1.95	0.47
1:BN:26:LEU:HD13	1:BO:144:GLN:OE1	2.15	0.47
1:BU:166:GLY:O	1:BV:44:TYR:OH	2.32	0.47
1:BX:125:ASP:O	1:BZ:75:ASN:ND2	2.48	0.47
1:CI:26:LEU:HD13	1:CJ:144:GLN:OE1	2.15	0.47
1:CK:2:TYR:CD1	1:FQ:98:THR:HG23	2.50	0.47
1:CL:26:LEU:HD13	1:CM:144:GLN:NE2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CN:4:GLN:HB3	1:CO:98:THR:HA	1.96	0.47
1:CP:114:PRO:HG2	1:CQ:67:VAL:CG1	2.41	0.47
1:CU:103:VAL:HG12	1:DB:104:ASN:OD1	2.15	0.47
1:CZ:33:MET:SD	1:CZ:45:MET:HB2	2.55	0.47
1:DA:126:PHE:CD2	1:DA:128:LEU:HG	2.48	0.47
1:DE:85:GLY:HA2	1:DE:125:ASP:N	2.28	0.47
1:DF:144:GLN:NE2	1:EV:23:GLN:HA	2.30	0.47
1:DG:72:ASN:O	1:DG:72:ASN:ND2	2.36	0.47
1:DJ:103:VAL:HG23	1:DU:104:ASN:O	2.14	0.47
1:DO:26:LEU:HD13	1:DP:144:GLN:OE1	2.15	0.47
1:DO:157:LEU:HG	1:DO:164:ILE:HD11	1.97	0.47
1:DQ:157:LEU:HD23	1:DQ:157:LEU:HA	1.73	0.47
1:DS:162:THR:HG21	1:DT:40:ASN:OD1	2.15	0.47
1:DT:85:GLY:HA2	1:DT:125:ASP:N	2.27	0.47
1:ED:102:ASP:OD1	1:ED:104:ASN:N	2.45	0.47
1:EF:97:ARG:HA	1:EF:112:ASP:HB3	1.96	0.47
1:EJ:142:ILE:HD13	1:EK:142:ILE:HG23	1.96	0.47
1:EJ:144:GLN:HA	1:EK:23:GLN:HB2	1.96	0.47
1:EN:55:GLU:OE1	1:EO:8:TYR:CE1	2.66	0.47
1:EN:147:LEU:HD21	1:EO:138:ILE:HG21	1.95	0.47
1:EN:162:THR:HG21	1:EO:40:ASN:OD1	2.15	0.47
1:ER:8:TYR:CE1	1:ES:55:GLU:OE1	2.68	0.47
1:ET:85:GLY:HA2	1:ET:125:ASP:N	2.25	0.47
1:EV:34:ASP:OD2	1:EV:36:SER:HB3	2.14	0.47
1:EW:147:LEU:HD21	1:EX:138:ILE:HG21	1.97	0.47
1:EX:76:GLN:O	1:FS:81:SER:HB2	2.14	0.47
1:EY:72:ASN:O	1:EY:72:ASN:ND2	2.29	0.47
1:FC:111:VAL:HG12	1:FD:78:PHE:HB3	1.96	0.47
1:FD:125:ASP:O	1:FF:75:ASN:ND2	2.48	0.47
1:FD:130:ASP:HB3	1:FD:132:SER:H	1.78	0.47
1:FE:157:LEU:HG	1:FE:164:ILE:HD11	1.97	0.47
1:FG:26:LEU:HD13	1:FH:144:GLN:OE1	2.14	0.47
1:FK:140:TRP:HA	1:FL:22:TYR:HD2	1.79	0.47
1:FM:8:TYR:CE1	1:FN:55:GLU:OE1	2.68	0.47
1:FM:118:SER:HB2	1:FN:120:THR:HB	1.96	0.47
1:FM:142:ILE:HD13	1:FN:142:ILE:HG23	1.95	0.47
1:FO:102:ASP:HB2	1:FO:109:VAL:HG23	1.97	0.47
1:FP:85:GLY:HA2	1:FP:125:ASP:N	2.28	0.47
1:FP:153:VAL:HG13	1:FP:164:ILE:HD13	1.95	0.47
1:FQ:34:ASP:OD2	1:FQ:36:SER:HB3	2.14	0.47
1:FU:103:VAL:HG23	1:GF:104:ASN:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FV:67:VAL:CG1	1:FV:85:GLY:HA3	2.44	0.47
1:FV:67:VAL:HG22	1:FV:83:SER:O	2.14	0.47
1:FV:166:GLY:O	1:FW:44:TYR:OH	2.32	0.47
1:FW:145:LEU:HD23	1:FW:145:LEU:HA	1.73	0.47
1:FX:111:VAL:HG12	1:FY:78:PHE:HB3	1.96	0.47
1:FY:125:ASP:O	1:GA:75:ASN:ND2	2.48	0.47
1:FZ:157:LEU:HG	1:FZ:164:ILE:HD11	1.97	0.47
1:GA:130:ASP:HB2	1:GA:133:ALA:H	1.80	0.47
1:GE:75:ASN:HB3	1:GE:78:PHE:HD2	1.75	0.47
1:GM:147:LEU:HD21	1:GN:138:ILE:HG21	1.97	0.47
1:GP:103:VAL:HG23	1:HA:104:ASN:O	2.14	0.47
1:GQ:166:GLY:O	1:GR:44:TYR:OH	2.31	0.47
1:GU:111:VAL:HG12	1:GV:78:PHE:HB3	1.96	0.47
1:GV:103:VAL:HG12	1:HC:104:ASN:OD1	2.15	0.47
1:GW:26:LEU:HD13	1:GX:144:GLN:OE1	2.14	0.47
1:GW:67:VAL:CG1	1:GW:85:GLY:HA3	2.45	0.47
1:HB:99:GLN:CB	1:HB:110:ILE:HG12	2.42	0.47
1:HB:163:ARG:HB3	1:HB:166:GLY:OXT	2.15	0.47
1:HE:26:LEU:HD13	1:HF:144:GLN:OE1	2.15	0.47
1:HG:34:ASP:OD2	1:HG:36:SER:HB3	2.14	0.47
1:HG:85:GLY:HA2	1:HG:125:ASP:N	2.29	0.47
1:HK:103:VAL:HG23	1:HV:104:ASN:O	2.14	0.47
1:HL:53:GLN:NE2	1:HL:97:ARG:HB3	2.29	0.47
1:HL:97:ARG:HA	1:HL:112:ASP:HB3	1.96	0.47
1:HP:67:VAL:HG22	1:HP:83:SER:O	2.14	0.47
1:HQ:103:VAL:HG12	1:HX:104:ASN:OD1	2.15	0.47
1:HV:33:MET:SD	1:HV:45:MET:HB2	2.55	0.47
1:HX:8:TYR:CE1	1:HY:55:GLU:OE1	2.68	0.47
1:AB:66:ASN:HA	1:AB:83:SER:O	2.15	0.47
1:AC:37:GLN:HG3	1:AC:58:THR:HG21	1.97	0.47
1:AE:53:GLN:NE2	1:AE:97:ARG:HB3	2.29	0.47
1:AG:111:VAL:HG12	1:AH:78:PHE:HB3	1.96	0.47
1:AG:153:VAL:HG13	1:AG:164:ILE:HD13	1.96	0.47
1:AI:17:LEU:HD12	1:AJ:19:ILE:HD12	1.97	0.47
1:AI:144:GLN:HA	1:AJ:23:GLN:HB2	1.95	0.47
1:AM:55:GLU:OE1	1:AN:8:TYR:CE1	2.66	0.47
1:AU:157:LEU:HG	1:AU:164:ILE:HD11	1.96	0.47
1:AV:34:ASP:HB3	1:BQ:162:THR:CB	2.27	0.47
1:AX:67:VAL:HG22	1:AX:83:SER:O	2.15	0.47
1:BD:26:LEU:HD13	1:BE:144:GLN:OE1	2.15	0.47
1:BQ:157:LEU:HG	1:BQ:164:ILE:HD11	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BS:4:GLN:HB3	1:BT:98:THR:HA	1.96	0.47
1:BS:37:GLN:HG3	1:BS:58:THR:HG21	1.97	0.47
1:BS:67:VAL:HG22	1:BS:83:SER:O	2.15	0.47
1:BY:102:ASP:OD1	1:BY:104:ASN:N	2.45	0.47
1:CG:8:TYR:CE1	1:CH:55:GLU:OE1	2.68	0.47
1:CI:40:ASN:OD1	1:CJ:162:THR:HG21	2.14	0.47
1:CI:102:ASP:HB2	1:CI:109:VAL:HG23	1.97	0.47
1:CT:142:ILE:HD13	1:CU:142:ILE:HG23	1.96	0.47
1:DJ:129:VAL:HG12	1:DJ:134:ARG:HH21	1.78	0.47
1:DO:17:LEU:HD12	1:DP:19:ILE:HD12	1.97	0.47
1:DS:85:GLY:HA2	1:DS:125:ASP:N	2.26	0.47
1:DU:33:MET:SD	1:DU:45:MET:HB2	2.55	0.47
1:DU:67:VAL:HG22	1:DU:83:SER:O	2.14	0.47
1:DZ:153:VAL:HG13	1:DZ:164:ILE:HD13	1.95	0.47
1:EB:112:ASP:O	1:EC:76:GLN:NE2	2.46	0.47
1:ED:67:VAL:HG22	1:ED:83:SER:O	2.15	0.47
1:EJ:72:ASN:O	1:EJ:72:ASN:ND2	2.43	0.47
1:EO:75:ASN:HB3	1:EO:78:PHE:HD2	1.76	0.47
1:ER:118:SER:HB2	1:ES:120:THR:HB	1.96	0.47
1:EW:157:LEU:HG	1:EW:164:ILE:HD11	1.97	0.47
1:FO:110:ILE:HB	1:FP:78:PHE:CE1	2.50	0.47
1:FT:32:TYR:HE1	1:FT:42:ALA:HB1	1.79	0.47
1:GG:163:ARG:HB3	1:GG:166:GLY:OXT	2.15	0.47
1:GQ:102:ASP:OD1	1:GQ:104:ASN:N	2.46	0.47
1:GT:125:ASP:O	1:GV:75:ASN:ND2	2.48	0.47
1:GU:142:ILE:HD13	1:GV:142:ILE:HG23	1.96	0.47
1:GW:32:TYR:HE1	1:GW:42:ALA:HB1	1.79	0.47
1:GY:55:GLU:OE1	1:GZ:8:TYR:CE1	2.66	0.47
1:GY:59:PHE:HD1	1:GY:90:ILE:HG12	1.79	0.47
1:GY:110:ILE:HB	1:GZ:78:PHE:CD1	2.49	0.47
1:HH:32:TYR:HE1	1:HH:42:ALA:HB1	1.80	0.47
1:HR:32:TYR:HE1	1:HR:42:ALA:HB1	1.79	0.47
1:HT:59:PHE:HD1	1:HT:90:ILE:HG12	1.79	0.47
1:AA:111:VAL:HG12	1:AB:78:PHE:HB3	1.97	0.47
1:AB:75:ASN:ND2	1:AW:82:SER:C	2.68	0.47
1:AD:103:VAL:HG23	1:AO:104:ASN:O	2.14	0.47
1:AI:142:ILE:HD13	1:AJ:142:ILE:HG23	1.96	0.47
1:AV:32:TYR:HE1	1:AV:42:ALA:HB1	1.80	0.47
1:AV:147:LEU:HD21	1:AW:138:ILE:HG21	1.97	0.47
1:AZ:166:GLY:O	1:BA:44:TYR:OH	2.32	0.47
1:BH:59:PHE:HD1	1:BH:90:ILE:HG12	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BH:138:ILE:O	1:BH:142:ILE:HG13	2.15	0.47
1:BJ:33:MET:SD	1:BJ:45:MET:HB2	2.55	0.47
1:BL:106:GLY:HA3	1:BN:100:SER:HB3	1.97	0.47
1:BN:134:ARG:HA	1:BN:137:THR:HG22	1.97	0.47
1:BP:157:LEU:HG	1:BP:164:ILE:HD11	1.96	0.47
1:BT:103:VAL:HG23	1:CE:104:ASN:O	2.14	0.47
1:BW:111:VAL:HG12	1:BX:78:PHE:HB3	1.96	0.47
1:CC:110:ILE:HB	1:CD:78:PHE:CD1	2.49	0.47
1:CI:110:ILE:HB	1:CJ:78:PHE:CE1	2.50	0.47
1:CN:32:TYR:HE1	1:CN:42:ALA:HB1	1.79	0.47
1:DA:163:ARG:HB3	1:DA:166:GLY:OXT	2.15	0.47
1:DF:8:TYR:HE1	1:EV:55:GLU:OE1	1.97	0.47
1:DF:114:PRO:HD2	1:EV:124:ALA:HB2	1.97	0.47
1:DF:138:ILE:O	1:DF:142:ILE:HG13	2.15	0.47
1:DG:111:VAL:HG12	1:DH:78:PHE:HB3	1.97	0.47
1:DI:29:LYS:O	1:DI:47:THR:OG1	2.22	0.47
1:DO:42:ALA:HB2	1:DP:162:THR:HG22	1.95	0.47
1:DS:55:GLU:OE1	1:DT:8:TYR:CE1	2.66	0.47
1:DS:138:ILE:O	1:DS:142:ILE:HG13	2.15	0.47
1:DY:138:ILE:O	1:DY:142:ILE:HG13	2.14	0.47
1:DZ:104:ASN:O	1:IB:103:VAL:HG23	2.14	0.47
1:ER:106:GLY:HA3	1:ET:100:SER:HB3	1.97	0.47
1:EW:82:SER:HB3	1:GD:75:ASN:CB	2.45	0.47
1:EX:66:ASN:HA	1:EX:83:SER:O	2.15	0.47
1:FO:26:LEU:HD13	1:FP:144:GLN:OE1	2.15	0.47
1:GF:33:MET:SD	1:GF:45:MET:HB2	2.55	0.47
1:HJ:4:GLN:HB3	1:HK:98:THR:HA	1.96	0.47
1:HT:4:GLN:HA	1:HU:97:ARG:O	2.15	0.47
1:AA:26:LEU:HD13	1:AB:144:GLN:NE2	2.29	0.47
1:AI:29:LYS:O	1:AI:47:THR:OG1	2.19	0.47
1:AJ:103:VAL:HG12	1:AQ:104:ASN:OD1	2.15	0.47
1:BW:157:LEU:HG	1:BW:164:ILE:HD11	1.96	0.47
1:BY:142:ILE:HD13	1:BZ:142:ILE:HG23	1.96	0.47
1:CE:33:MET:SD	1:CE:45:MET:HB2	2.55	0.47
1:CK:96:TRP:NE1	1:FQ:4:GLN:OE1	2.48	0.47
1:CL:29:LYS:O	1:CL:47:THR:OG1	2.26	0.47
1:CL:112:ASP:O	1:CM:76:GLN:NE2	2.46	0.47
1:CT:17:LEU:HD12	1:CU:19:ILE:HD12	1.97	0.47
1:CX:162:THR:HG21	1:CY:40:ASN:OD1	2.15	0.47
1:DJ:43:THR:HG23	1:DJ:58:THR:OG1	2.14	0.47
1:DQ:67:VAL:CG1	1:DQ:85:GLY:HA3	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DR:1:SER:O	1:DR:1:SER:OG	2.33	0.47
1:DV:163:ARG:HB3	1:DV:166:GLY:OXT	2.15	0.47
1:EB:72:ASN:O	1:EB:72:ASN:ND2	2.36	0.47
1:ED:32:TYR:HE1	1:ED:42:ALA:HB1	1.79	0.47
1:EF:53:GLN:NE2	1:EF:97:ARG:HB3	2.29	0.47
1:EF:114:PRO:HG2	1:EG:67:VAL:CG1	2.41	0.47
1:EH:111:VAL:HG12	1:EI:78:PHE:HB3	1.96	0.47
1:EI:125:ASP:O	1:EK:75:ASN:ND2	2.48	0.47
1:EL:2:TYR:CB	1:EM:100:SER:HB2	2.45	0.47
1:EL:37:GLN:HG3	1:EL:58:THR:HG21	1.97	0.47
1:ET:55:GLU:OE1	1:EU:8:TYR:CE1	2.68	0.47
1:EZ:103:VAL:HG23	1:FK:104:ASN:O	2.14	0.47
1:FE:26:LEU:HD13	1:FF:144:GLN:OE1	2.15	0.47
1:FF:103:VAL:HG12	1:FM:104:ASN:OD1	2.15	0.47
1:FI:138:ILE:O	1:FI:142:ILE:HG13	2.15	0.47
1:FL:99:GLN:CB	1:FL:110:ILE:HG12	2.42	0.47
1:FZ:26:LEU:HD13	1:GA:144:GLN:OE1	2.15	0.47
1:GA:103:VAL:HG12	1:GH:104:ASN:OD1	2.15	0.47
1:GL:138:ILE:O	1:GL:142:ILE:HG13	2.15	0.47
1:GR:29:LYS:O	1:GR:47:THR:OG1	2.28	0.47
1:GU:67:VAL:HG22	1:GU:83:SER:O	2.14	0.47
1:HH:33:MET:HE1	1:HH:45:MET:HB2	1.97	0.47
1:HH:111:VAL:HG12	1:HI:78:PHE:HB3	1.97	0.47
1:HJ:67:VAL:HG22	1:HJ:83:SER:O	2.15	0.47
1:HT:162:THR:HG21	1:HU:40:ASN:OD1	2.15	0.47
1:HZ:26:LEU:HD13	1:IA:144:GLN:OE1	2.15	0.47
1:AE:32:TYR:HE1	1:AE:42:ALA:HB1	1.80	0.46
1:AO:33:MET:SD	1:AO:45:MET:HB2	2.55	0.46
1:AS:26:LEU:HD13	1:AT:144:GLN:OE1	2.15	0.46
1:AZ:97:ARG:HA	1:AZ:112:ASP:HB3	1.96	0.46
1:BE:84:LYS:HG2	1:BG:75:ASN:OD1	2.16	0.46
1:BH:110:ILE:HB	1:BI:78:PHE:CD1	2.49	0.46
1:BK:129:VAL:HG23	1:BK:134:ARG:NH1	2.29	0.46
1:BM:126:PHE:HD2	1:BM:128:LEU:HG	1.76	0.46
1:BQ:111:VAL:HG12	1:BR:78:PHE:HB3	1.97	0.46
1:BR:75:ASN:OD1	1:CM:125:ASP:O	2.33	0.46
1:BY:29:LYS:O	1:BY:47:THR:OG1	2.19	0.46
1:CC:85:GLY:HA2	1:CC:125:ASP:N	2.26	0.46
1:CV:2:TYR:CB	1:CW:100:SER:HB2	2.45	0.46
1:CX:59:PHE:HD1	1:CX:90:ILE:HG12	1.79	0.46
1:CZ:55:GLU:OE1	1:DA:8:TYR:CE1	2.68	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CZ:67:VAL:HG22	1:CZ:83:SER:O	2.14	0.46
1:DF:157:LEU:HG	1:DF:164:ILE:HD11	1.96	0.46
1:DP:102:ASP:HB2	1:DP:109:VAL:HG23	1.98	0.46
1:DP:103:VAL:HG12	1:DW:104:ASN:OD1	2.15	0.46
1:DQ:2:TYR:CB	1:DR:100:SER:HB2	2.45	0.46
1:EA:22:TYR:HD2	1:IB:140:TRP:HA	1.76	0.46
1:EH:147:LEU:HD21	1:EI:138:ILE:HG21	1.96	0.46
1:EN:4:GLN:HA	1:EO:97:ARG:O	2.15	0.46
1:EP:33:MET:SD	1:EP:45:MET:HB2	2.55	0.46
1:ET:26:LEU:HD13	1:EU:144:GLN:OE1	2.15	0.46
1:FA:67:VAL:CG1	1:FA:85:GLY:HA3	2.45	0.46
1:FA:72:ASN:O	1:FB:95:ILE:HD11	2.14	0.46
1:FA:97:ARG:HA	1:FA:112:ASP:HB3	1.96	0.46
1:FE:111:VAL:HG12	1:FF:78:PHE:HB3	1.96	0.46
1:FG:2:TYR:CB	1:FH:100:SER:HB2	2.45	0.46
1:FI:4:GLN:HA	1:FJ:97:ARG:O	2.15	0.46
1:FO:55:GLU:OE1	1:FP:8:TYR:CE1	2.68	0.46
1:FR:106:GLY:HA3	1:GN:1:SER:N	2.30	0.46
1:FR:111:VAL:HG12	1:FS:78:PHE:HB3	1.97	0.46
1:FX:147:LEU:HD21	1:FY:138:ILE:HG21	1.96	0.46
1:FZ:142:ILE:HD13	1:GA:142:ILE:HG23	1.96	0.46
1:GB:32:TYR:HE1	1:GB:42:ALA:HB1	1.79	0.46
1:GU:26:LEU:HD13	1:GV:144:GLN:OE1	2.15	0.46
1:HC:118:SER:HB2	1:HD:120:THR:HB	1.96	0.46
1:HE:140:TRP:HA	1:HF:22:TYR:HD2	1.78	0.46
1:HH:157:LEU:HG	1:HH:164:ILE:HD11	1.97	0.46
1:HQ:130:ASP:HB2	1:HQ:133:ALA:H	1.80	0.46
1:AE:67:VAL:CG1	1:AE:85:GLY:HA3	2.45	0.46
1:AK:2:TYR:CB	1:AL:100:SER:HB2	2.45	0.46
1:AM:85:GLY:HA2	1:AM:125:ASP:N	2.26	0.46
1:BF:136:SER:OG	1:BG:22:TYR:OH	2.33	0.46
1:BR:66:ASN:HA	1:BR:83:SER:O	2.15	0.46
1:BS:112:ASP:O	1:BT:76:GLN:NE2	2.30	0.46
1:BZ:130:ASP:HB2	1:BZ:133:ALA:H	1.80	0.46
1:CC:59:PHE:HD1	1:CC:90:ILE:HG12	1.79	0.46
1:CF:129:VAL:HG23	1:CF:134:ARG:NH1	2.29	0.46
1:CJ:85:GLY:HA2	1:CJ:125:ASP:N	2.28	0.46
1:CK:138:ILE:O	1:CK:142:ILE:HG13	2.16	0.46
1:CK:140:TRP:NE1	1:FQ:55:GLU:OE2	2.49	0.46
1:CK:157:LEU:HG	1:CK:164:ILE:HD11	1.96	0.46
1:CL:147:LEU:HD21	1:CM:138:ILE:HG21	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CV:67:VAL:CG1	1:CV:85:GLY:HA3	2.45	0.46
1:CX:138:ILE:O	1:CX:142:ILE:HG13	2.15	0.46
1:CZ:140:TRP:HA	1:DA:22:TYR:HD2	1.79	0.46
1:DH:66:ASN:HA	1:DH:83:SER:O	2.15	0.46
1:DU:55:GLU:OE1	1:DV:8:TYR:CE1	2.68	0.46
1:EC:82:SER:HB2	1:HI:75:ASN:HB3	1.96	0.46
1:EJ:153:VAL:HG13	1:EJ:164:ILE:HD13	1.96	0.46
1:FA:32:TYR:HE1	1:FA:42:ALA:HB1	1.80	0.46
1:FQ:138:ILE:O	1:FQ:142:ILE:HG13	2.15	0.46
1:FX:157:LEU:HG	1:FX:164:ILE:HD11	1.96	0.46
1:GD:22:TYR:HD2	1:GE:140:TRP:HA	1.81	0.46
1:GJ:55:GLU:OE1	1:GK:8:TYR:CE1	2.68	0.46
1:GQ:32:TYR:HE1	1:GQ:42:ALA:HB1	1.80	0.46
1:GV:26:LEU:O	1:GV:30:ALA:HB2	2.15	0.46
1:HF:26:LEU:O	1:HF:30:ALA:HB2	2.16	0.46
1:HG:138:ILE:O	1:HG:142:ILE:HG13	2.16	0.46
1:HM:145:LEU:HD23	1:HM:145:LEU:HA	1.73	0.46
1:HP:26:LEU:HD13	1:HQ:144:GLN:OE1	2.15	0.46
1:HP:153:VAL:HG13	1:HP:164:ILE:HD13	1.96	0.46
1:HQ:102:ASP:HB2	1:HQ:109:VAL:HG23	1.98	0.46
1:HR:2:TYR:CB	1:HS:100:SER:HB2	2.45	0.46
1:IA:85:GLY:HA2	1:IA:125:ASP:N	2.28	0.46
1:IB:34:ASP:OD2	1:IB:36:SER:HB3	2.14	0.46
1:AC:67:VAL:HG22	1:AC:83:SER:O	2.15	0.46
1:AH:103:VAL:O	1:GK:103:VAL:HG21	2.15	0.46
1:AJ:26:LEU:O	1:AJ:30:ALA:HB2	2.15	0.46
1:AM:138:ILE:O	1:AM:142:ILE:HG13	2.15	0.46
1:AM:142:ILE:HD13	1:AN:142:ILE:HG23	1.98	0.46
1:AO:126:PHE:HD2	1:AO:128:LEU:HG	1.80	0.46
1:AU:85:GLY:HA2	1:AU:125:ASP:N	2.29	0.46
1:AV:157:LEU:HG	1:AV:164:ILE:HD11	1.97	0.46
1:AW:66:ASN:HA	1:AW:83:SER:O	2.15	0.46
1:AY:129:VAL:HG12	1:AY:134:ARG:HH21	1.79	0.46
1:BD:138:ILE:HG21	1:BE:147:LEU:HD21	1.98	0.46
1:BF:136:SER:HG	1:BG:22:TYR:HH	1.63	0.46
1:BH:4:GLN:HA	1:BI:97:ARG:O	2.15	0.46
1:BK:163:ARG:HB3	1:BK:166:GLY:OXT	2.15	0.46
1:BN:102:ASP:HB2	1:BN:109:VAL:HG23	1.97	0.46
1:BQ:32:TYR:HE1	1:BQ:42:ALA:HB1	1.80	0.46
1:BW:147:LEU:HD21	1:BX:138:ILE:HG21	1.96	0.46
1:BX:103:VAL:HG23	1:DA:104:ASN:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BY:26:LEU:HD13	1:BZ:144:GLN:OE1	2.15	0.46
1:CA:37:GLN:HG3	1:CA:58:THR:HG21	1.97	0.46
1:CC:142:ILE:HD13	1:CD:142:ILE:HG23	1.97	0.46
1:CF:85:GLY:HA2	1:CF:125:ASP:N	2.28	0.46
1:CJ:26:LEU:O	1:CJ:30:ALA:HB2	2.16	0.46
1:CP:138:ILE:O	1:CP:142:ILE:HG13	2.16	0.46
1:CS:59:PHE:CD1	1:CS:90:ILE:HG12	2.51	0.46
1:DD:55:GLU:OE1	1:DE:8:TYR:CE1	2.68	0.46
1:DG:112:ASP:O	1:DH:76:GLN:NE2	2.46	0.46
1:DG:157:LEU:HG	1:DG:164:ILE:HD11	1.97	0.46
1:DS:142:ILE:HD13	1:DT:142:ILE:HG23	1.98	0.46
1:EC:66:ASN:HA	1:EC:83:SER:O	2.15	0.46
1:EJ:111:VAL:HG12	1:EK:78:PHE:HB3	1.96	0.46
1:EW:26:LEU:HD13	1:EX:144:GLN:NE2	2.29	0.46
1:FK:33:MET:SD	1:FK:45:MET:HB2	2.55	0.46
1:FK:67:VAL:HG22	1:FK:83:SER:O	2.14	0.46
1:FM:106:GLY:HA3	1:FO:100:SER:HB3	1.97	0.46
1:FT:67:VAL:HG22	1:FT:83:SER:O	2.15	0.46
1:GD:138:ILE:O	1:GD:142:ILE:HG13	2.15	0.46
1:GJ:140:TRP:HA	1:GK:22:TYR:HD2	1.78	0.46
1:GO:37:GLN:HG3	1:GO:58:THR:HG21	1.97	0.46
1:GQ:67:VAL:CG1	1:GQ:85:GLY:HA3	2.45	0.46
1:GU:138:ILE:HG21	1:GV:147:LEU:HD21	1.98	0.46
1:HD:134:ARG:O	1:HD:137:THR:HG22	2.16	0.46
1:HH:72:ASN:O	1:HH:72:ASN:ND2	2.36	0.46
1:HX:75:ASN:HD21	1:HX:77:THR:HB	1.81	0.46
1:HX:118:SER:HB2	1:HY:120:THR:HB	1.96	0.46
1:AI:32:TYR:HE1	1:AI:42:ALA:HB1	1.81	0.46
1:AP:163:ARG:HB3	1:AP:166:GLY:OXT	2.15	0.46
1:AU:94:ARG:HH11	1:HG:137:THR:HA	1.81	0.46
1:BB:33:MET:HE3	1:BB:45:MET:HB2	1.96	0.46
1:BD:111:VAL:HG12	1:BE:78:PHE:HB3	1.96	0.46
1:BE:102:ASP:HB2	1:BE:109:VAL:HG23	1.98	0.46
1:BS:53:GLN:NE2	1:BS:97:ARG:HB3	2.31	0.46
1:BU:67:VAL:CG1	1:BU:85:GLY:HA3	2.45	0.46
1:CA:67:VAL:CG1	1:CA:85:GLY:HA3	2.45	0.46
1:CE:140:TRP:HA	1:CF:22:TYR:HD2	1.79	0.46
1:CN:53:GLN:NE2	1:CN:97:ARG:HB3	2.31	0.46
1:CT:111:VAL:HG12	1:CU:78:PHE:HB3	1.96	0.46
1:CT:153:VAL:HG13	1:CT:164:ILE:HD13	1.96	0.46
1:DD:102:ASP:HB2	1:DD:109:VAL:HG23	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DD:110:ILE:HB	1:DE:78:PHE:CE1	2.50	0.46
1:DF:34:ASP:OD2	1:DF:36:SER:HB3	2.14	0.46
1:DK:138:ILE:O	1:DK:142:ILE:HG13	2.16	0.46
1:EA:157:LEU:HG	1:EA:164:ILE:HD11	1.96	0.46
1:EH:55:GLU:OE2	1:EI:140:TRP:NE1	2.49	0.46
1:EK:26:LEU:O	1:EK:30:ALA:HB2	2.15	0.46
1:EK:103:VAL:HG12	1:ER:104:ASN:OD1	2.15	0.46
1:EN:110:ILE:HB	1:EO:78:PHE:CD1	2.49	0.46
1:EV:99:GLN:CB	1:EV:110:ILE:HG12	2.43	0.46
1:EV:138:ILE:O	1:EV:142:ILE:HG13	2.16	0.46
1:EW:34:ASP:HB3	1:FR:162:THR:CB	2.41	0.46
1:EZ:101:THR:HA	1:EZ:108:PRO:HA	1.98	0.46
1:FK:55:GLU:OE1	1:FL:8:TYR:CE1	2.68	0.46
1:FV:72:ASN:O	1:FV:72:ASN:ND2	2.30	0.46
1:FX:138:ILE:HG21	1:FY:147:LEU:HD21	1.98	0.46
1:FZ:153:VAL:HG13	1:FZ:164:ILE:HD13	1.96	0.46
1:GO:67:VAL:HG22	1:GO:83:SER:O	2.15	0.46
1:GQ:138:ILE:O	1:GQ:142:ILE:HG13	2.16	0.46
1:HG:157:LEU:HG	1:HG:164:ILE:HD11	1.96	0.46
1:HJ:86:THR:OG1	1:HV:51:LYS:HE3	2.16	0.46
1:HY:126:PHE:HD2	1:HY:128:LEU:HG	1.76	0.46
1:AA:112:ASP:O	1:AB:76:GLN:NE2	2.46	0.46
1:AC:53:GLN:NE2	1:AC:97:ARG:HB3	2.31	0.46
1:AH:59:PHE:CD1	1:AH:90:ILE:HG12	2.51	0.46
1:AM:22:TYR:HD2	1:AN:140:TRP:HA	1.81	0.46
1:AR:134:ARG:O	1:AR:137:THR:HG22	2.16	0.46
1:AT:75:ASN:HD21	1:FZ:81:SER:HB3	1.80	0.46
1:AU:19:ILE:HD12	1:HG:17:LEU:HD12	1.97	0.46
1:AU:166:GLY:O	1:HG:44:TYR:OH	2.33	0.46
1:AV:111:VAL:HG12	1:AW:78:PHE:HB3	1.97	0.46
1:BD:32:TYR:HE1	1:BD:42:ALA:HB1	1.81	0.46
1:BI:85:GLY:HA2	1:BI:125:ASP:N	2.27	0.46
1:BW:44:TYR:OH	1:BX:166:GLY:O	2.31	0.46
1:BY:157:LEU:HG	1:BY:164:ILE:HD11	1.97	0.46
1:CI:106:GLY:HA3	1:EJ:2:TYR:CD2	2.51	0.46
1:CR:111:VAL:HG12	1:CS:78:PHE:HB3	1.96	0.46
1:CT:26:LEU:HD13	1:CU:144:GLN:OE1	2.15	0.46
1:CX:4:GLN:HA	1:CY:97:ARG:O	2.15	0.46
1:CX:19:ILE:HD12	1:CY:17:LEU:HD12	1.98	0.46
1:DA:85:GLY:HA2	1:DA:125:ASP:N	2.29	0.46
1:DB:75:ASN:HD21	1:DB:77:THR:HB	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DD:134:ARG:HA	1:DD:137:THR:HG22	1.96	0.46
1:DG:147:LEU:HD21	1:DH:138:ILE:HG21	1.97	0.46
1:DM:55:GLU:OE2	1:DN:140:TRP:NE1	2.49	0.46
1:DX:134:ARG:O	1:DX:137:THR:HG22	2.16	0.46
1:DY:55:GLU:OE1	1:DZ:8:TYR:CE1	2.68	0.46
1:DZ:26:LEU:O	1:DZ:30:ALA:HB2	2.16	0.46
1:EB:32:TYR:HE1	1:EB:42:ALA:HB1	1.80	0.46
1:EB:157:LEU:HG	1:EB:164:ILE:HD11	1.97	0.46
1:EJ:26:LEU:HD13	1:EK:144:GLN:OE1	2.15	0.46
1:ET:110:ILE:HB	1:EU:78:PHE:CE1	2.50	0.46
1:GA:102:ASP:HB2	1:GA:109:VAL:HG23	1.98	0.46
1:GB:116:TRP:CZ3	1:GC:67:VAL:HG13	2.50	0.46
1:GC:29:LYS:O	1:GC:47:THR:OG1	2.26	0.46
1:GH:8:TYR:CE1	1:GI:55:GLU:OE1	2.68	0.46
1:GQ:97:ARG:HA	1:GQ:112:ASP:HB3	1.96	0.46
1:GS:55:GLU:OE2	1:GT:140:TRP:NE1	2.49	0.46
1:GS:138:ILE:HG21	1:GT:147:LEU:HD21	1.98	0.46
1:GY:162:THR:HG21	1:GZ:40:ASN:OD1	2.15	0.46
1:HN:55:GLU:OE2	1:HO:140:TRP:NE1	2.49	0.46
1:HS:1:SER:O	1:HS:1:SER:OG	2.33	0.46
1:AA:32:TYR:HE1	1:AA:42:ALA:HB1	1.80	0.46
1:AE:138:ILE:O	1:AE:142:ILE:HG13	2.16	0.46
1:AI:72:ASN:O	1:AI:72:ASN:ND2	2.43	0.46
1:AQ:75:ASN:HD21	1:AQ:77:THR:HB	1.81	0.46
1:AS:102:ASP:HB2	1:AS:109:VAL:HG23	1.97	0.46
1:AS:140:TRP:HA	1:AT:22:TYR:HD2	1.77	0.46
1:BF:2:TYR:CB	1:BG:100:SER:HB2	2.45	0.46
1:BL:75:ASN:HD21	1:BL:77:THR:HB	1.81	0.46
1:BX:59:PHE:CD1	1:BX:90:ILE:HG12	2.51	0.46
1:BY:138:ILE:HG21	1:BZ:147:LEU:HD21	1.98	0.46
1:CE:55:GLU:OE1	1:CF:8:TYR:CE1	2.68	0.46
1:CF:163:ARG:HB3	1:CF:166:GLY:OXT	2.15	0.46
1:CN:86:THR:OG1	1:CZ:51:LYS:HE3	2.16	0.46
1:CR:55:GLU:OE2	1:CS:140:TRP:NE1	2.49	0.46
1:DI:86:THR:OG1	1:DU:51:LYS:HE3	2.16	0.46
1:DJ:101:THR:HA	1:DJ:108:PRO:HA	1.98	0.46
1:DK:102:ASP:OD1	1:DK:104:ASN:N	2.46	0.46
1:DO:153:VAL:HG13	1:DO:164:ILE:HD13	1.97	0.46
1:DS:19:ILE:HD12	1:DT:17:LEU:HD12	1.98	0.46
1:DU:126:PHE:HD2	1:DU:128:LEU:HG	1.80	0.46
1:DW:118:SER:HB2	1:DX:120:THR:HB	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EF:32:TYR:HE1	1:EF:42:ALA:HB1	1.80	0.46
1:EH:138:ILE:HG21	1:EI:147:LEU:HD21	1.98	0.46
1:EL:32:TYR:HE1	1:EL:42:ALA:HB1	1.79	0.46
1:EL:67:VAL:CG1	1:EL:85:GLY:HA3	2.45	0.46
1:EY:37:GLN:HG3	1:EY:58:THR:HG21	1.97	0.46
1:FC:102:ASP:OD1	1:FC:104:ASN:N	2.49	0.46
1:FF:26:LEU:O	1:FF:30:ALA:HB2	2.15	0.46
1:FY:59:PHE:CD1	1:FY:90:ILE:HG12	2.51	0.46
1:FZ:72:ASN:O	1:FZ:72:ASN:ND2	2.43	0.46
1:GU:32:TYR:HE1	1:GU:42:ALA:HB1	1.81	0.46
1:GY:142:ILE:HD13	1:GZ:142:ILE:HG23	1.98	0.46
1:HN:33:MET:HE1	1:HN:45:MET:HB2	1.97	0.46
1:HR:37:GLN:HG3	1:HR:58:THR:HG21	1.98	0.46
1:HT:142:ILE:HD13	1:HU:142:ILE:HG23	1.98	0.46
1:HY:29:LYS:O	1:HY:47:THR:OG1	2.21	0.46
1:AA:157:LEU:HG	1:AA:164:ILE:HD11	1.97	0.46
1:AC:86:THR:OG1	1:AO:51:LYS:HE3	2.16	0.46
1:AK:37:GLN:HG3	1:AK:58:THR:HG21	1.98	0.46
1:AQ:106:GLY:HA3	1:AS:100:SER:HB3	1.97	0.46
1:AU:126:PHE:CD2	1:AU:128:LEU:HG	2.51	0.46
1:AX:37:GLN:HG3	1:AX:58:THR:HG21	1.97	0.46
1:BB:55:GLU:OE2	1:BC:140:TRP:NE1	2.49	0.46
1:BB:138:ILE:HG21	1:BC:147:LEU:HD21	1.98	0.46
1:BO:111:VAL:HG21	1:FD:107:LEU:HD12	1.97	0.46
1:BS:86:THR:OG1	1:CE:51:LYS:HE3	2.16	0.46
1:BU:32:TYR:HE1	1:BU:42:ALA:HB1	1.80	0.46
1:BZ:26:LEU:O	1:BZ:30:ALA:HB2	2.15	0.46
1:BZ:102:ASP:HB2	1:BZ:109:VAL:HG23	1.98	0.46
1:CC:138:ILE:O	1:CC:142:ILE:HG13	2.15	0.46
1:CJ:145:LEU:HD23	1:CJ:145:LEU:HA	1.71	0.46
1:CN:98:THR:HG23	1:CO:4:GLN:HB3	1.98	0.46
1:CR:33:MET:HE1	1:CR:45:MET:HB2	1.97	0.46
1:CT:32:TYR:HE1	1:CT:42:ALA:HB1	1.81	0.46
1:CV:116:TRP:CZ3	1:CW:67:VAL:HG13	2.50	0.46
1:DD:26:LEU:HD13	1:DE:144:GLN:OE1	2.15	0.46
1:DK:32:TYR:HE1	1:DK:42:ALA:HB1	1.80	0.46
1:DO:86:THR:HG21	1:HE:51:LYS:HE2	1.97	0.46
1:DY:110:ILE:HB	1:DZ:78:PHE:CE1	2.50	0.46
1:EA:112:ASP:OD1	1:IB:78:PHE:HB3	2.16	0.46
1:EE:103:VAL:HG23	1:EP:104:ASN:O	2.14	0.46
1:EH:153:VAL:HG13	1:EH:164:ILE:HD13	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EW:112:ASP:O	1:EX:76:GLN:NE2	2.46	0.46
1:FK:85:GLY:HA2	1:FK:125:ASP:N	2.28	0.46
1:FT:37:GLN:HG3	1:FT:58:THR:HG21	1.97	0.46
1:FU:101:THR:HA	1:FU:108:PRO:HA	1.98	0.46
1:FY:29:LYS:O	1:FY:47:THR:OG1	2.22	0.46
1:GP:101:THR:HA	1:GP:108:PRO:HA	1.98	0.46
1:GW:37:GLN:HG3	1:GW:58:THR:HG21	1.97	0.46
1:HJ:37:GLN:HG3	1:HJ:58:THR:HG21	1.97	0.46
1:HR:136:SER:HG	1:HS:22:TYR:HH	1.62	0.46
1:HY:134:ARG:O	1:HY:137:THR:HG22	2.16	0.46
1:HZ:102:ASP:HB2	1:HZ:109:VAL:HG23	1.96	0.46
1:AG:55:GLU:OE2	1:AH:140:TRP:NE1	2.49	0.46
1:AM:59:PHE:HD1	1:AM:90:ILE:HG12	1.80	0.46
1:AO:40:ASN:OD1	1:AP:162:THR:HG21	2.16	0.46
1:AT:26:LEU:O	1:AT:30:ALA:HB2	2.16	0.46
1:AU:124:ALA:CB	1:HG:113:CYS:HB2	2.46	0.46
1:BD:153:VAL:HG13	1:BD:164:ILE:HD13	1.96	0.46
1:BE:103:VAL:HG12	1:BL:104:ASN:OD1	2.15	0.46
1:BJ:63:LYS:NZ	1:BJ:125:ASP:OD2	2.41	0.46
1:BJ:126:PHE:HD2	1:BJ:128:LEU:HG	1.80	0.46
1:BN:140:TRP:HA	1:BO:22:TYR:HD2	1.78	0.46
1:BT:101:THR:HA	1:BT:108:PRO:HA	1.98	0.46
1:BZ:84:LYS:HG2	1:CB:75:ASN:OD1	2.16	0.46
1:CA:2:TYR:CB	1:CB:100:SER:HB2	2.45	0.46
1:CC:4:GLN:HA	1:CD:97:ARG:O	2.15	0.46
1:CF:68:TYR:CE1	1:CF:79:TYR:HA	2.51	0.46
1:CO:101:THR:HA	1:CO:108:PRO:HA	1.98	0.46
1:CU:130:ASP:HB2	1:CU:133:ALA:H	1.80	0.46
1:CX:142:ILE:HD13	1:CY:142:ILE:HG23	1.98	0.46
1:DM:138:ILE:HG21	1:DN:147:LEU:HD21	1.98	0.46
1:DM:147:LEU:HD21	1:DN:138:ILE:HG21	1.96	0.46
1:DN:59:PHE:CD1	1:DN:90:ILE:HG12	2.51	0.46
1:DP:130:ASP:HB2	1:DP:133:ALA:H	1.80	0.46
1:DU:140:TRP:HA	1:DV:22:TYR:HD2	1.79	0.46
1:DV:68:TYR:CE1	1:DV:79:TYR:HA	2.51	0.46
1:DX:29:LYS:O	1:DX:47:THR:OG1	2.21	0.46
1:EA:124:ALA:HB3	1:IB:113:CYS:HB2	1.96	0.46
1:EB:147:LEU:HD21	1:EC:138:ILE:HG21	1.97	0.46
1:EK:130:ASP:HB2	1:EK:133:ALA:H	1.80	0.46
1:EU:26:LEU:O	1:EU:30:ALA:HB2	2.16	0.46
1:FA:102:ASP:OD1	1:FA:104:ASN:N	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:112:ASP:O	1:FB:76:GLN:NE2	2.29	0.46
1:FA:138:ILE:O	1:FA:142:ILE:HG13	2.16	0.46
1:FI:22:TYR:HD2	1:FJ:140:TRP:HA	1.81	0.46
1:FV:32:TYR:HE1	1:FV:42:ALA:HB1	1.80	0.46
1:GD:162:THR:HG21	1:GE:40:ASN:OD1	2.15	0.46
1:GF:85:GLY:HA2	1:GF:125:ASP:N	2.28	0.46
1:GG:68:TYR:CE1	1:GG:79:TYR:HA	2.51	0.46
1:GJ:110:ILE:HB	1:GK:78:PHE:CE1	2.50	0.46
1:GN:129:VAL:HG12	1:GN:134:ARG:NH2	2.31	0.46
1:GQ:95:ILE:HG12	1:GR:73:VAL:HG12	1.98	0.46
1:GY:138:ILE:O	1:GY:142:ILE:HG13	2.15	0.46
1:HA:23:GLN:HB2	1:HB:144:GLN:HA	1.98	0.46
1:HA:33:MET:SD	1:HA:45:MET:HB2	2.55	0.46
1:HA:55:GLU:OE1	1:HB:8:TYR:CE1	2.68	0.46
1:HE:110:ILE:HB	1:HF:78:PHE:CE1	2.50	0.46
1:HT:138:ILE:O	1:HT:142:ILE:HG13	2.15	0.46
1:AM:19:ILE:HD12	1:AN:17:LEU:HD12	1.98	0.46
1:AU:138:ILE:O	1:AU:142:ILE:HG13	2.16	0.46
1:BA:51:LYS:NZ	1:CF:131:ASP:OD2	2.49	0.46
1:BB:53:GLN:NE2	1:BB:97:ARG:HB3	2.31	0.46
1:BC:29:LYS:O	1:BC:47:THR:OG1	2.22	0.46
1:BO:26:LEU:O	1:BO:30:ALA:HB2	2.16	0.46
1:BP:22:TYR:CE1	1:GL:11:PRO:HD2	2.51	0.46
1:BR:129:VAL:HG12	1:BR:134:ARG:NH2	2.31	0.46
1:BU:112:ASP:O	1:BV:76:GLN:NE2	2.29	0.46
1:BU:138:ILE:O	1:BU:142:ILE:HG13	2.16	0.46
1:CC:22:TYR:HD2	1:CD:140:TRP:HA	1.81	0.46
1:CL:111:VAL:HG12	1:CM:78:PHE:HB3	1.97	0.46
1:CM:66:ASN:HA	1:CM:83:SER:O	2.15	0.46
1:CR:138:ILE:HG21	1:CS:147:LEU:HD21	1.98	0.46
1:CU:84:LYS:HG2	1:CW:75:ASN:OD1	2.16	0.46
1:DB:55:GLU:OE1	1:DC:8:TYR:HE1	1.99	0.46
1:DF:126:PHE:CD2	1:DF:128:LEU:HG	2.51	0.46
1:DM:111:VAL:HG12	1:DN:78:PHE:HB3	1.96	0.46
1:DO:32:TYR:HE1	1:DO:42:ALA:HB1	1.81	0.46
1:DY:26:LEU:HD13	1:DZ:144:GLN:OE1	2.15	0.46
1:EF:138:ILE:O	1:EF:142:ILE:HG13	2.16	0.46
1:EJ:32:TYR:HE1	1:EJ:42:ALA:HB1	1.81	0.46
1:EQ:85:GLY:HA2	1:EQ:125:ASP:N	2.29	0.46
1:ET:67:VAL:HG21	1:ET:124:ALA:HB2	1.98	0.46
1:EY:86:THR:OG1	1:FK:51:LYS:HE3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:95:ILE:HG12	1:FB:73:VAL:HG12	1.98	0.46
1:FF:84:LYS:HG2	1:FH:75:ASN:OD1	2.16	0.46
1:FP:145:LEU:HD23	1:FP:145:LEU:HA	1.71	0.46
1:GB:2:TYR:CB	1:GC:100:SER:HB2	2.45	0.46
1:GO:53:GLN:NE2	1:GO:97:ARG:HB3	2.31	0.46
1:GV:130:ASP:HB2	1:GV:133:ALA:H	1.80	0.46
1:GW:2:TYR:CB	1:GX:100:SER:HB2	2.46	0.46
1:HO:59:PHE:CD1	1:HO:90:ILE:HG12	2.51	0.46
1:HZ:110:ILE:HB	1:IA:78:PHE:CE1	2.50	0.46
1:AC:138:ILE:O	1:AC:142:ILE:HG13	2.16	0.46
1:AD:101:THR:HA	1:AD:108:PRO:HA	1.98	0.46
1:AG:44:TYR:OH	1:AH:166:GLY:O	2.31	0.46
1:AI:81:SER:CB	1:GK:75:ASN:ND2	2.78	0.46
1:AJ:72:ASN:O	1:AJ:72:ASN:ND2	2.40	0.46
1:AL:43:THR:HG23	1:AL:58:THR:OG1	2.16	0.46
1:AX:86:THR:OG1	1:BJ:51:LYS:HE3	2.16	0.46
1:BD:17:LEU:HD12	1:BE:19:ILE:HD12	1.97	0.46
1:BG:43:THR:HG23	1:BG:58:THR:OG1	2.16	0.46
1:BJ:55:GLU:OE1	1:BK:8:TYR:CE1	2.68	0.46
1:BL:118:SER:HB2	1:BM:120:THR:HB	1.96	0.46
1:BP:68:TYR:HB3	1:BP:79:TYR:CE2	2.52	0.46
1:BQ:147:LEU:HD21	1:BR:138:ILE:HG21	1.97	0.46
1:BW:138:ILE:HG21	1:BX:147:LEU:HD21	1.98	0.46
1:BY:2:TYR:HD2	1:ET:106:GLY:HA3	1.81	0.46
1:BY:32:TYR:HE1	1:BY:42:ALA:HB1	1.81	0.46
1:CL:32:TYR:HE1	1:CL:42:ALA:HB1	1.80	0.46
1:CN:37:GLN:HG3	1:CN:58:THR:HG21	1.97	0.46
1:CP:32:TYR:HE1	1:CP:42:ALA:HB1	1.80	0.46
1:DQ:72:ASN:O	1:DR:95:ILE:HD11	2.16	0.46
1:DQ:81:SER:OG	1:DW:75:ASN:ND2	2.45	0.46
1:DQ:116:TRP:CZ3	1:DR:67:VAL:HG13	2.50	0.46
1:DS:22:TYR:HD2	1:DT:140:TRP:HA	1.81	0.46
1:DS:59:PHE:HD1	1:DS:90:ILE:HG12	1.80	0.46
1:DU:40:ASN:OD1	1:DV:162:THR:HG21	2.16	0.46
1:EA:126:PHE:CD2	1:EA:128:LEU:HG	2.51	0.46
1:EB:74:GLN:OE1	1:EO:63:LYS:NZ	2.49	0.46
1:EC:129:VAL:HG12	1:EC:134:ARG:NH2	2.31	0.46
1:ED:37:GLN:HG3	1:ED:58:THR:HG21	1.97	0.46
1:ED:98:THR:HG23	1:EE:4:GLN:HB3	1.98	0.46
1:EF:166:GLY:O	1:EG:44:TYR:OH	2.32	0.46
1:EL:116:TRP:CZ3	1:EM:67:VAL:HG13	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EL:137:THR:HG21	1:EM:115:LEU:HD23	1.98	0.46
1:ER:75:ASN:HD21	1:ER:77:THR:HB	1.81	0.46
1:ET:134:ARG:HA	1:ET:137:THR:HG22	1.96	0.46
1:EX:129:VAL:HG12	1:EX:134:ARG:NH2	2.31	0.46
1:FD:59:PHE:CD1	1:FD:90:ILE:HG12	2.51	0.46
1:FE:17:LEU:HD12	1:FF:19:ILE:HD12	1.97	0.46
1:FG:67:VAL:CG1	1:FG:85:GLY:HA3	2.45	0.46
1:FK:23:GLN:HB2	1:FL:144:GLN:HA	1.98	0.46
1:FO:140:TRP:HA	1:FP:22:TYR:HD2	1.78	0.46
1:GA:26:LEU:O	1:GA:30:ALA:HB2	2.15	0.46
1:GB:68:TYR:CE1	1:GC:114:PRO:HD3	2.51	0.46
1:GB:137:THR:HG21	1:GC:115:LEU:HD23	1.98	0.46
1:GD:19:ILE:HD12	1:GE:17:LEU:HD12	1.98	0.46
1:GF:55:GLU:OE1	1:GG:8:TYR:CE1	2.68	0.46
1:GH:106:GLY:HA3	1:GJ:100:SER:HB3	1.97	0.46
1:GM:112:ASP:O	1:GN:76:GLN:NE2	2.46	0.46
1:GO:138:ILE:O	1:GO:142:ILE:HG13	2.16	0.46
1:HB:68:TYR:CE1	1:HB:79:TYR:HA	2.51	0.46
1:HF:145:LEU:HD23	1:HF:145:LEU:HA	1.71	0.46
1:HJ:53:GLN:NE2	1:HJ:97:ARG:HB3	2.31	0.46
1:HP:157:LEU:HG	1:HP:164:ILE:HD11	1.97	0.46
1:HQ:84:LYS:HG2	1:HS:75:ASN:OD1	2.16	0.46
1:HR:67:VAL:CG1	1:HR:85:GLY:HA3	2.45	0.46
1:HV:23:GLN:HB2	1:HW:144:GLN:HA	1.98	0.46
1:HX:106:GLY:HA3	1:HZ:100:SER:HB3	1.97	0.46
1:AA:155:SER:CB	1:DG:51:LYS:HZ3	2.23	0.45
1:AS:67:VAL:HG21	1:AS:124:ALA:HB2	1.98	0.45
1:AZ:95:ILE:HG12	1:BA:73:VAL:HG12	1.98	0.45
1:BD:157:LEU:HG	1:BD:164:ILE:HD11	1.97	0.45
1:BP:126:PHE:CD2	1:BP:128:LEU:HG	2.51	0.45
1:BU:95:ILE:HG12	1:BV:73:VAL:HG12	1.98	0.45
1:BW:53:GLN:NE2	1:BW:97:ARG:HB3	2.31	0.45
1:CC:114:PRO:O	1:CC:115:LEU:HD12	2.17	0.45
1:CG:75:ASN:HD21	1:CG:77:THR:HB	1.81	0.45
1:CG:106:GLY:HA3	1:CI:100:SER:HB3	1.97	0.45
1:CR:53:GLN:NE2	1:CR:97:ARG:HB3	2.31	0.45
1:DB:106:GLY:HA3	1:DD:100:SER:HB3	1.97	0.45
1:DE:26:LEU:O	1:DE:30:ALA:HB2	2.16	0.45
1:DQ:137:THR:HG21	1:DR:115:LEU:HD23	1.98	0.45
1:DY:67:VAL:HG21	1:DY:124:ALA:HB2	1.98	0.45
1:EC:82:SER:O	1:HI:75:ASN:ND2	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EC:157:LEU:HD23	1:EC:157:LEU:HA	1.81	0.45
1:ED:86:THR:OG1	1:EP:51:LYS:HE3	2.16	0.45
1:EH:53:GLN:NE2	1:EH:97:ARG:HB3	2.31	0.45
1:EH:114:PRO:HG2	1:EI:67:VAL:CG1	2.45	0.45
1:EK:102:ASP:HB2	1:EK:109:VAL:HG23	1.97	0.45
1:EN:114:PRO:O	1:EN:115:LEU:HD12	2.16	0.45
1:EP:55:GLU:OE1	1:EQ:8:TYR:CE1	2.68	0.45
1:EU:95:ILE:CG2	1:EU:112:ASP:HB2	2.47	0.45
1:EV:126:PHE:CD2	1:EV:128:LEU:HG	2.51	0.45
1:EY:32:TYR:HE1	1:EY:42:ALA:HB1	1.79	0.45
1:FG:37:GLN:HG3	1:FG:58:THR:HG21	1.97	0.45
1:FI:142:ILE:HD13	1:FJ:142:ILE:HG23	1.98	0.45
1:FM:55:GLU:OE1	1:FN:8:TYR:HE1	1.99	0.45
1:FP:95:ILE:CG2	1:FP:112:ASP:HB2	2.47	0.45
1:FR:32:TYR:HE1	1:FR:42:ALA:HB1	1.80	0.45
1:FT:53:GLN:NE2	1:FT:97:ARG:HB3	2.31	0.45
1:FZ:32:TYR:HE1	1:FZ:42:ALA:HB1	1.81	0.45
1:GD:114:PRO:O	1:GD:115:LEU:HD12	2.17	0.45
1:GJ:26:LEU:HD13	1:GK:144:GLN:OE1	2.15	0.45
1:GM:32:TYR:HE1	1:GM:42:ALA:HB1	1.80	0.45
1:GM:33:MET:HE3	1:GM:45:MET:HB2	1.98	0.45
1:GN:66:ASN:HA	1:GN:83:SER:O	2.15	0.45
1:GT:59:PHE:CD1	1:GT:90:ILE:HG12	2.51	0.45
1:GV:102:ASP:HB2	1:GV:109:VAL:HG23	1.98	0.45
1:GW:29:LYS:O	1:GW:47:THR:OG1	2.20	0.45
1:GW:137:THR:HG21	1:GX:115:LEU:HD23	1.98	0.45
1:HE:67:VAL:HG21	1:HE:124:ALA:HB2	1.99	0.45
1:HE:134:ARG:HA	1:HE:137:THR:HG22	1.97	0.45
1:HK:101:THR:HA	1:HK:108:PRO:HA	1.98	0.45
1:HL:166:GLY:O	1:HM:44:TYR:OH	2.32	0.45
1:IB:68:TYR:HB3	1:IB:79:TYR:CE2	2.52	0.45
1:IB:138:ILE:O	1:IB:142:ILE:HG13	2.15	0.45
1:IB:141:MET:HE2	1:IB:141:MET:HB2	1.84	0.45
1:AA:37:GLN:HG3	1:AA:58:THR:HG21	1.98	0.45
1:AA:74:GLN:OE1	1:AN:63:LYS:NZ	2.49	0.45
1:AI:138:ILE:O	1:AI:142:ILE:HG13	2.17	0.45
1:AO:23:GLN:HB2	1:AP:144:GLN:HA	1.98	0.45
1:AQ:55:GLU:OE1	1:AR:8:TYR:HE1	1.99	0.45
1:AX:138:ILE:O	1:AX:142:ILE:HG13	2.16	0.45
1:AZ:138:ILE:O	1:AZ:142:ILE:HG13	2.16	0.45
1:BD:102:ASP:OD1	1:BD:104:ASN:N	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BP:53:GLN:NE2	1:GL:7:GLY:HA2	2.32	0.45
1:BQ:112:ASP:O	1:BR:76:GLN:NE2	2.46	0.45
1:BV:51:LYS:NZ	1:DA:131:ASP:OD2	2.49	0.45
1:BZ:103:VAL:HG12	1:CG:104:ASN:OD1	2.15	0.45
1:CA:68:TYR:CE1	1:CB:114:PRO:HD3	2.51	0.45
1:CG:55:GLU:OE1	1:CH:8:TYR:HE1	2.00	0.45
1:CT:72:ASN:O	1:CT:72:ASN:ND2	2.43	0.45
1:CV:68:TYR:CE1	1:CW:114:PRO:HD3	2.51	0.45
1:CZ:23:GLN:HB2	1:DA:144:GLN:HA	1.98	0.45
1:DA:68:TYR:CE1	1:DA:79:TYR:HA	2.51	0.45
1:DB:126:PHE:CD2	1:DB:128:LEU:HG	2.52	0.45
1:DF:140:TRP:NE1	1:EV:55:GLU:OE2	2.48	0.45
1:DH:153:VAL:HG13	1:DH:164:ILE:CD1	2.46	0.45
1:EG:85:GLY:HA2	1:EG:125:ASP:H	1.82	0.45
1:EG:153:VAL:HG13	1:EG:164:ILE:HD13	1.99	0.45
1:EN:59:PHE:HD1	1:EN:90:ILE:HG12	1.80	0.45
1:ET:156:LYS:HB3	1:ET:161:VAL:HB	1.99	0.45
1:FF:130:ASP:HB2	1:FF:133:ALA:H	1.80	0.45
1:FG:68:TYR:CE1	1:FH:114:PRO:HD3	2.51	0.45
1:FK:40:ASN:OD1	1:FL:162:THR:HG21	2.16	0.45
1:FM:85:GLY:HA2	1:FM:125:ASP:N	2.27	0.45
1:FO:156:LYS:HB3	1:FO:161:VAL:HB	1.99	0.45
1:FP:26:LEU:O	1:FP:30:ALA:HB2	2.16	0.45
1:FR:37:GLN:HG3	1:FR:58:THR:HG21	1.98	0.45
1:FR:157:LEU:HG	1:FR:164:ILE:HD11	1.97	0.45
1:FT:86:THR:OG1	1:GF:51:LYS:HE3	2.16	0.45
1:FV:157:LEU:HG	1:FV:164:ILE:HD11	1.99	0.45
1:GK:26:LEU:O	1:GK:30:ALA:HB2	2.16	0.45
1:GM:8:TYR:CE1	1:GN:55:GLU:OE1	2.69	0.45
1:GS:145:LEU:HA	1:GS:145:LEU:HD23	1.76	0.45
1:GU:157:LEU:HG	1:GU:164:ILE:HD11	1.97	0.45
1:GV:43:THR:HG23	1:GV:58:THR:OG1	2.17	0.45
1:HL:95:ILE:HG12	1:HM:73:VAL:HG12	1.98	0.45
1:HP:72:ASN:O	1:HP:72:ASN:ND2	2.43	0.45
1:IA:95:ILE:CG2	1:IA:112:ASP:HB2	2.47	0.45
1:AB:129:VAL:HG12	1:AB:134:ARG:NH2	2.31	0.45
1:AE:157:LEU:HG	1:AE:164:ILE:HD11	1.99	0.45
1:AJ:84:LYS:HG2	1:AL:75:ASN:OD1	2.16	0.45
1:AQ:126:PHE:CD2	1:AQ:128:LEU:HG	2.52	0.45
1:AS:8:TYR:CE1	1:AT:55:GLU:OE1	2.70	0.45
1:AX:98:THR:HG23	1:AY:4:GLN:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BC:59:PHE:CD1	1:BC:90:ILE:HG12	2.51	0.45
1:BH:114:PRO:O	1:BH:115:LEU:HD12	2.17	0.45
1:BJ:40:ASN:OD1	1:BK:162:THR:HG21	2.16	0.45
1:BK:68:TYR:CE1	1:BK:79:TYR:HA	2.51	0.45
1:BM:134:ARG:O	1:BM:137:THR:HG22	2.16	0.45
1:BP:138:ILE:O	1:BP:142:ILE:HG13	2.16	0.45
1:CH:134:ARG:O	1:CH:137:THR:HG22	2.16	0.45
1:CJ:75:ASN:HB3	1:CJ:78:PHE:HD2	1.82	0.45
1:CR:144:GLN:HA	1:CS:23:GLN:HB2	1.98	0.45
1:CX:22:TYR:HD2	1:CY:140:TRP:HA	1.81	0.45
1:DC:134:ARG:O	1:DC:137:THR:HG22	2.16	0.45
1:DF:128:LEU:HD13	1:EV:98:THR:CB	2.47	0.45
1:DH:26:LEU:O	1:DH:30:ALA:HB2	2.17	0.45
1:DS:4:GLN:HA	1:DT:97:ARG:O	2.15	0.45
1:DY:157:LEU:HG	1:DY:164:ILE:HD11	1.99	0.45
1:EB:33:MET:HE3	1:EB:45:MET:HB2	1.96	0.45
1:ED:138:ILE:O	1:ED:142:ILE:HG13	2.16	0.45
1:EE:101:THR:HA	1:EE:108:PRO:HA	1.98	0.45
1:EN:19:ILE:HD12	1:EO:17:LEU:HD12	1.98	0.45
1:ET:157:LEU:HG	1:ET:164:ILE:HD11	1.99	0.45
1:FC:55:GLU:OE2	1:FD:140:TRP:NE1	2.49	0.45
1:FI:19:ILE:HD12	1:FJ:17:LEU:HD12	1.98	0.45
1:FR:8:TYR:CE1	1:FS:55:GLU:OE1	2.69	0.45
1:GA:84:LYS:HG2	1:GC:75:ASN:OD1	2.16	0.45
1:GB:37:GLN:HG3	1:GB:58:THR:HG21	1.98	0.45
1:GB:72:ASN:O	1:GC:95:ILE:HD11	2.16	0.45
1:GF:126:PHE:HD2	1:GF:128:LEU:HG	1.80	0.45
1:GL:68:TYR:HB3	1:GL:79:TYR:CE2	2.51	0.45
1:HG:68:TYR:HB3	1:HG:79:TYR:CE2	2.52	0.45
1:HM:153:VAL:HG13	1:HM:164:ILE:HD13	1.99	0.45
1:HN:53:GLN:NE2	1:HN:97:ARG:HB3	2.31	0.45
1:HO:29:LYS:O	1:HO:47:THR:OG1	2.22	0.45
1:HP:111:VAL:HG12	1:HQ:78:PHE:HB3	1.96	0.45
1:HP:138:ILE:HG21	1:HQ:147:LEU:HD21	1.98	0.45
1:HQ:29:LYS:O	1:HQ:47:THR:OG1	2.28	0.45
1:AB:26:LEU:O	1:AB:30:ALA:HB2	2.17	0.45
1:AE:37:GLN:HG3	1:AE:58:THR:HG21	1.99	0.45
1:AF:97:ARG:HA	1:AF:112:ASP:CB	2.47	0.45
1:AI:157:LEU:HG	1:AI:164:ILE:HD11	1.97	0.45
1:AS:156:LYS:HB3	1:AS:161:VAL:HB	1.99	0.45
1:AU:22:TYR:CD2	1:HG:140:TRP:HA	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AV:97:ARG:O	1:AW:4:GLN:HA	2.16	0.45
1:AW:129:VAL:HG12	1:AW:134:ARG:NH2	2.31	0.45
1:BA:85:GLY:HA2	1:BA:125:ASP:H	1.82	0.45
1:BD:138:ILE:O	1:BD:142:ILE:HG13	2.17	0.45
1:BF:37:GLN:HG3	1:BF:58:THR:HG21	1.97	0.45
1:BJ:23:GLN:HB2	1:BK:144:GLN:HA	1.98	0.45
1:BN:75:ASN:HB2	1:BP:82:SER:HB3	1.99	0.45
1:BQ:74:GLN:OE1	1:CD:63:LYS:NZ	2.49	0.45
1:BT:59:PHE:CD1	1:BT:90:ILE:HG12	2.52	0.45
1:BV:85:GLY:HA2	1:BV:125:ASP:H	1.82	0.45
1:CA:137:THR:HA	1:CB:94:ARG:HH11	1.82	0.45
1:CE:23:GLN:HB2	1:CF:144:GLN:HA	1.98	0.45
1:CL:37:GLN:HG3	1:CL:58:THR:HG21	1.98	0.45
1:CN:29:LYS:O	1:CN:47:THR:OG1	2.22	0.45
1:DG:37:GLN:HG3	1:DG:58:THR:HG21	1.98	0.45
1:DI:138:ILE:O	1:DI:142:ILE:HG13	2.16	0.45
1:DP:26:LEU:O	1:DP:30:ALA:HB2	2.15	0.45
1:EA:68:TYR:HB3	1:EA:79:TYR:CE2	2.51	0.45
1:EB:97:ARG:O	1:EC:4:GLN:HA	2.17	0.45
1:EC:125:ASP:O	1:HI:75:ASN:OD1	2.34	0.45
1:EF:37:GLN:HG3	1:EF:58:THR:HG21	1.99	0.45
1:EN:138:ILE:O	1:EN:142:ILE:HG13	2.15	0.45
1:EN:142:ILE:HD13	1:EO:142:ILE:HG23	1.98	0.45
1:EW:144:GLN:HA	1:EX:23:GLN:HB2	1.99	0.45
1:EY:53:GLN:NE2	1:EY:97:ARG:HB3	2.31	0.45
1:FB:97:ARG:HA	1:FB:112:ASP:CB	2.47	0.45
1:FM:29:LYS:HD2	1:FM:48:ALA:HB2	1.99	0.45
1:FR:72:ASN:O	1:FR:72:ASN:ND2	2.36	0.45
1:FR:74:GLN:OE1	1:GE:63:LYS:NZ	2.49	0.45
1:FS:66:ASN:HA	1:FS:83:SER:O	2.15	0.45
1:FU:59:PHE:CD1	1:FU:90:ILE:HG12	2.52	0.45
1:FV:37:GLN:HG3	1:FV:58:THR:HG21	1.99	0.45
1:FX:53:GLN:NE2	1:FX:97:ARG:HB3	2.31	0.45
1:GJ:67:VAL:HG21	1:GJ:124:ALA:HB2	1.99	0.45
1:GN:26:LEU:O	1:GN:30:ALA:HB2	2.17	0.45
1:GP:59:PHE:CD1	1:GP:90:ILE:HG12	2.52	0.45
1:GR:97:ARG:HA	1:GR:112:ASP:CB	2.47	0.45
1:GU:17:LEU:HD12	1:GV:19:ILE:HD12	1.97	0.45
1:GW:33:MET:HE3	1:GW:45:MET:HB2	1.97	0.45
1:GY:4:GLN:HA	1:GZ:97:ARG:O	2.15	0.45
1:HC:55:GLU:OE1	1:HD:8:TYR:HE1	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HF:75:ASN:HB3	1:HF:78:PHE:HD2	1.82	0.45
1:HG:126:PHE:CD2	1:HG:128:LEU:HG	2.51	0.45
1:HI:66:ASN:HA	1:HI:83:SER:O	2.15	0.45
1:HJ:98:THR:HG23	1:HK:4:GLN:HB3	1.98	0.45
1:HP:32:TYR:HE1	1:HP:42:ALA:HB1	1.81	0.45
1:HR:145:LEU:HD23	1:HR:145:LEU:HA	1.79	0.45
1:HW:68:TYR:CE1	1:HW:79:TYR:HA	2.51	0.45
1:HZ:55:GLU:OE1	1:IA:8:TYR:CE1	2.68	0.45
1:HZ:157:LEU:HG	1:HZ:164:ILE:HD11	1.99	0.45
1:IB:85:GLY:HA2	1:IB:125:ASP:N	2.29	0.45
1:AC:98:THR:HG23	1:AD:4:GLN:HB3	1.98	0.45
1:AJ:43:THR:HG23	1:AJ:58:THR:OG1	2.17	0.45
1:AV:37:GLN:HG3	1:AV:58:THR:HG21	1.98	0.45
1:BL:8:TYR:CE1	1:BM:55:GLU:OE1	2.68	0.45
1:BN:55:GLU:OE1	1:BO:8:TYR:CE1	2.68	0.45
1:BR:153:VAL:HG13	1:BR:164:ILE:CD1	2.46	0.45
1:BU:37:GLN:HG3	1:BU:58:THR:HG21	1.99	0.45
1:BV:153:VAL:HG13	1:BV:164:ILE:HD13	1.99	0.45
1:CC:19:ILE:HD12	1:CD:17:LEU:HD12	1.98	0.45
1:CE:40:ASN:OD1	1:CF:162:THR:HG21	2.16	0.45
1:CM:26:LEU:O	1:CM:30:ALA:HB2	2.17	0.45
1:CN:112:ASP:O	1:CO:76:GLN:NE2	2.30	0.45
1:CN:138:ILE:O	1:CN:142:ILE:HG13	2.17	0.45
1:CQ:97:ARG:HA	1:CQ:112:ASP:CB	2.47	0.45
1:DF:102:ASP:OD1	1:EU:104:ASN:HB3	2.17	0.45
1:DG:7:GLY:O	1:DH:50:PRO:HD3	2.17	0.45
1:DH:129:VAL:HG12	1:DH:134:ARG:NH2	2.31	0.45
1:DL:85:GLY:HA2	1:DL:125:ASP:H	1.82	0.45
1:DY:8:TYR:CE1	1:DZ:55:GLU:OE1	2.70	0.45
1:EJ:138:ILE:O	1:EJ:142:ILE:HG13	2.17	0.45
1:EL:68:TYR:CE1	1:EM:114:PRO:HD3	2.51	0.45
1:EN:85:GLY:HA2	1:EN:125:ASP:N	2.26	0.45
1:EQ:163:ARG:HB3	1:EQ:166:GLY:OXT	2.15	0.45
1:ER:29:LYS:HD2	1:ER:48:ALA:HB2	1.99	0.45
1:ES:134:ARG:O	1:ES:137:THR:HG22	2.16	0.45
1:FA:145:LEU:HA	1:FA:145:LEU:HD23	1.71	0.45
1:FE:32:TYR:HE1	1:FE:42:ALA:HB1	1.81	0.45
1:FL:68:TYR:CE1	1:FL:79:TYR:HA	2.51	0.45
1:FN:134:ARG:O	1:FN:137:THR:HG22	2.16	0.45
1:FQ:126:PHE:CD2	1:FQ:128:LEU:HG	2.51	0.45
1:FS:26:LEU:O	1:FS:30:ALA:HB2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FV:138:ILE:O	1:FV:142:ILE:HG13	2.16	0.45
1:GD:4:GLN:HA	1:GE:97:ARG:O	2.15	0.45
1:GD:55:GLU:OE1	1:GE:8:TYR:CE1	2.66	0.45
1:GH:106:GLY:HA3	1:GJ:100:SER:CB	2.47	0.45
1:GM:37:GLN:HG3	1:GM:58:THR:HG21	1.98	0.45
1:GM:114:PRO:HG2	1:GN:67:VAL:CG1	2.44	0.45
1:GM:157:LEU:HG	1:GM:164:ILE:HD11	1.97	0.45
1:GW:116:TRP:CZ3	1:GX:67:VAL:HG13	2.49	0.45
1:GW:137:THR:HA	1:GX:94:ARG:HH11	1.82	0.45
1:GX:43:THR:HG23	1:GX:58:THR:OG1	2.16	0.45
1:HA:8:TYR:CE1	1:HB:55:GLU:OE1	2.69	0.45
1:HA:40:ASN:OD1	1:HB:162:THR:HG21	2.16	0.45
1:HH:97:ARG:O	1:HI:4:GLN:HA	2.16	0.45
1:HL:138:ILE:O	1:HL:142:ILE:HG13	2.16	0.45
1:HN:138:ILE:HG21	1:HO:147:LEU:HD21	1.98	0.45
1:HT:22:TYR:HD2	1:HU:140:TRP:HA	1.81	0.45
1:IA:26:LEU:O	1:IA:30:ALA:HB2	2.16	0.45
1:AA:72:ASN:O	1:AA:72:ASN:ND2	2.36	0.45
1:AA:144:GLN:HA	1:AB:23:GLN:HB2	1.99	0.45
1:AE:33:MET:HE3	1:AE:45:MET:HB2	1.99	0.45
1:AE:95:ILE:HG12	1:AF:73:VAL:HG12	1.98	0.45
1:AM:4:GLN:HA	1:AN:97:ARG:O	2.15	0.45
1:AM:23:GLN:HB2	1:AN:144:GLN:HA	1.99	0.45
1:AM:114:PRO:O	1:AM:115:LEU:HD12	2.17	0.45
1:AP:75:ASN:HB3	1:AP:78:PHE:HD2	1.82	0.45
1:AS:55:GLU:OE1	1:AT:8:TYR:CE1	2.68	0.45
1:AU:68:TYR:HB3	1:AU:79:TYR:CE2	2.52	0.45
1:AW:157:LEU:HA	1:AW:157:LEU:HD23	1.81	0.45
1:BA:153:VAL:HG13	1:BA:164:ILE:HD13	1.99	0.45
1:BF:116:TRP:CZ3	1:BG:67:VAL:HG13	2.50	0.45
1:BL:29:LYS:HD2	1:BL:48:ALA:HB2	1.99	0.45
1:BL:55:GLU:OE1	1:BM:8:TYR:HE1	1.99	0.45
1:BL:85:GLY:HA2	1:BL:125:ASP:N	2.27	0.45
1:BL:126:PHE:CD2	1:BL:128:LEU:HG	2.52	0.45
1:BP:85:GLY:HA2	1:BP:125:ASP:N	2.29	0.45
1:BR:157:LEU:HD23	1:BR:157:LEU:HA	1.80	0.45
1:CA:137:THR:HG21	1:CB:115:LEU:HD23	1.98	0.45
1:CL:97:ARG:O	1:CM:4:GLN:HA	2.16	0.45
1:CV:37:GLN:HG3	1:CV:58:THR:HG21	1.97	0.45
1:CX:114:PRO:O	1:CX:115:LEU:HD12	2.16	0.45
1:CY:85:GLY:HA2	1:CY:125:ASP:N	2.27	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CZ:40:ASN:OD1	1:DA:162:THR:HG21	2.16	0.45
1:DF:68:TYR:HB3	1:DF:79:TYR:CE2	2.52	0.45
1:DG:144:GLN:HA	1:DH:23:GLN:HB2	1.99	0.45
1:DU:23:GLN:HB2	1:DV:144:GLN:HA	1.98	0.45
1:EA:138:ILE:O	1:EA:142:ILE:HG13	2.15	0.45
1:EG:97:ARG:HA	1:EG:112:ASP:CB	2.47	0.45
1:EK:84:LYS:HG2	1:EM:75:ASN:OD1	2.16	0.45
1:EV:68:TYR:HB3	1:EV:79:TYR:CE2	2.51	0.45
1:EX:26:LEU:O	1:EX:30:ALA:HB2	2.17	0.45
1:EY:67:VAL:CG1	1:EY:85:GLY:HA3	2.47	0.45
1:FC:138:ILE:HG21	1:FD:147:LEU:HD21	1.98	0.45
1:FE:138:ILE:HG21	1:FF:147:LEU:HD21	1.98	0.45
1:FG:81:SER:OG	1:FM:75:ASN:ND2	2.45	0.45
1:FH:43:THR:HG23	1:FH:58:THR:OG1	2.16	0.45
1:FQ:68:TYR:HB3	1:FQ:79:TYR:CE2	2.52	0.45
1:FR:97:ARG:O	1:FS:4:GLN:HA	2.17	0.45
1:FX:55:GLU:OE2	1:FY:140:TRP:NE1	2.49	0.45
1:GM:97:ARG:O	1:GN:4:GLN:HA	2.17	0.45
1:GM:144:GLN:HA	1:GN:23:GLN:HB2	1.99	0.45
1:GU:138:ILE:O	1:GU:142:ILE:HG13	2.17	0.45
1:GV:84:LYS:HG2	1:GX:75:ASN:OD1	2.16	0.45
1:GY:114:PRO:O	1:GY:115:LEU:HD12	2.17	0.45
1:HC:75:ASN:HD21	1:HC:77:THR:HB	1.81	0.45
1:HI:129:VAL:HG12	1:HI:134:ARG:NH2	2.31	0.45
1:HQ:43:THR:HG23	1:HQ:58:THR:OG1	2.17	0.45
1:HR:81:SER:OG	1:HX:75:ASN:ND2	2.45	0.45
1:HT:23:GLN:HB2	1:HU:144:GLN:HA	1.99	0.45
1:HV:8:TYR:CE1	1:HW:55:GLU:OE1	2.69	0.45
1:HX:55:GLU:OE1	1:HY:8:TYR:HE1	1.99	0.45
1:IA:75:ASN:HB3	1:IA:78:PHE:HD2	1.82	0.45
1:IB:126:PHE:CD2	1:IB:128:LEU:HG	2.51	0.45
1:AI:81:SER:HB3	1:GK:75:ASN:ND2	2.32	0.45
1:AI:124:ALA:HB3	1:AJ:113:CYS:HB3	1.99	0.45
1:AJ:161:VAL:HG22	1:GJ:47:THR:HG21	1.99	0.45
1:AQ:29:LYS:HD2	1:AQ:48:ALA:HB2	1.99	0.45
1:AQ:106:GLY:HA3	1:AS:100:SER:CB	2.47	0.45
1:BF:68:TYR:CE1	1:BG:114:PRO:HD3	2.51	0.45
1:BH:19:ILE:HD12	1:BI:17:LEU:HD12	1.98	0.45
1:BH:23:GLN:HB2	1:BI:144:GLN:HA	1.99	0.45
1:BK:99:GLN:CB	1:BK:110:ILE:HG12	2.42	0.45
1:BN:67:VAL:HG21	1:BN:124:ALA:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BP:100:SER:HB2	1:GL:2:TYR:CB	2.47	0.45
1:BQ:8:TYR:CE1	1:BR:55:GLU:OE1	2.69	0.45
1:BT:52:ASP:OD1	1:BT:97:ARG:NH2	2.37	0.45
1:CI:8:TYR:CE1	1:CJ:55:GLU:OE1	2.70	0.45
1:CK:126:PHE:CD2	1:CK:128:LEU:HG	2.51	0.45
1:CL:107:LEU:HD21	1:DH:2:TYR:HB3	1.98	0.45
1:CR:157:LEU:HD23	1:CR:157:LEU:HA	1.74	0.45
1:CT:138:ILE:O	1:CT:142:ILE:HG13	2.17	0.45
1:CV:72:ASN:O	1:CW:95:ILE:HD11	2.17	0.45
1:CW:43:THR:HG23	1:CW:58:THR:OG1	2.16	0.45
1:DD:156:LYS:HB3	1:DD:161:VAL:HB	1.99	0.45
1:DG:32:TYR:HE1	1:DG:42:ALA:HB1	1.80	0.45
1:DI:98:THR:HG23	1:DJ:4:GLN:HB3	1.98	0.45
1:DJ:59:PHE:CD1	1:DJ:90:ILE:HG12	2.52	0.45
1:DL:97:ARG:HA	1:DL:112:ASP:CB	2.47	0.45
1:DP:84:LYS:HG2	1:DR:75:ASN:OD1	2.16	0.45
1:DZ:95:ILE:CG2	1:DZ:112:ASP:HB2	2.47	0.45
1:EK:43:THR:HG23	1:EK:58:THR:OG1	2.17	0.45
1:EM:43:THR:HG23	1:EM:58:THR:OG1	2.16	0.45
1:EQ:68:TYR:CE1	1:EQ:79:TYR:HA	2.51	0.45
1:ER:55:GLU:OE1	1:ES:8:TYR:HE1	1.99	0.45
1:EW:7:GLY:O	1:EX:50:PRO:HD3	2.17	0.45
1:FF:29:LYS:O	1:FF:47:THR:OG1	2.28	0.45
1:FI:114:PRO:O	1:FI:115:LEU:HD12	2.17	0.45
1:FO:67:VAL:HG21	1:FO:124:ALA:HB2	1.98	0.45
1:FZ:124:ALA:HB3	1:GA:113:CYS:HB3	1.99	0.45
1:GH:75:ASN:HD21	1:GH:77:THR:HB	1.80	0.45
1:GK:95:ILE:CG2	1:GK:112:ASP:HB2	2.46	0.45
1:GL:126:PHE:CD2	1:GL:128:LEU:HG	2.51	0.45
1:GQ:112:ASP:O	1:GR:76:GLN:NE2	2.29	0.45
1:GR:145:LEU:HD23	1:GR:145:LEU:HA	1.73	0.45
1:GW:72:ASN:O	1:GX:95:ILE:HD11	2.17	0.45
1:HC:106:GLY:HA3	1:HE:100:SER:HB3	1.97	0.45
1:HF:95:ILE:CG2	1:HF:112:ASP:HB2	2.47	0.45
1:HH:74:GLN:OE1	1:HU:63:LYS:NZ	2.49	0.45
1:HR:116:TRP:CZ3	1:HS:67:VAL:HG13	2.49	0.45
1:HT:114:PRO:O	1:HT:115:LEU:HD12	2.17	0.45
1:HW:163:ARG:HB3	1:HW:166:GLY:OXT	2.15	0.45
1:HZ:156:LYS:HB3	1:HZ:161:VAL:HB	1.99	0.45
1:AC:67:VAL:CG1	1:AC:85:GLY:HA3	2.47	0.45
1:AG:53:GLN:NE2	1:AG:97:ARG:HB3	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AV:7:GLY:O	1:AW:50:PRO:HD3	2.17	0.45
1:AX:53:GLN:NE2	1:AX:97:ARG:HB3	2.31	0.45
1:BA:59:PHE:CD1	1:BA:90:ILE:HG12	2.52	0.45
1:BA:97:ARG:HA	1:BA:112:ASP:CB	2.47	0.45
1:BO:75:ASN:HD21	1:FE:81:SER:CB	2.30	0.45
1:BR:26:LEU:O	1:BR:30:ALA:HB2	2.17	0.45
1:BS:138:ILE:O	1:BS:142:ILE:HG13	2.16	0.45
1:BS:144:GLN:HA	1:BT:23:GLN:HB2	1.99	0.45
1:BX:157:LEU:HD23	1:BX:157:LEU:HA	1.82	0.45
1:CB:43:THR:HG23	1:CB:58:THR:OG1	2.16	0.45
1:CC:138:ILE:HG21	1:CD:147:LEU:HD21	1.99	0.45
1:CG:29:LYS:HD2	1:CG:48:ALA:HB2	1.99	0.45
1:CG:106:GLY:HA3	1:CI:100:SER:CB	2.47	0.45
1:CK:117:THR:HG22	1:FQ:141:MET:HE3	1.98	0.45
1:CK:142:ILE:HD13	1:FQ:142:ILE:CG2	2.42	0.45
1:CL:7:GLY:O	1:CM:50:PRO:HD3	2.17	0.45
1:CO:59:PHE:CD1	1:CO:90:ILE:HG12	2.52	0.45
1:CT:124:ALA:HB3	1:CU:113:CYS:HB3	1.99	0.45
1:CV:137:THR:HG21	1:CW:115:LEU:HD23	1.98	0.45
1:DD:8:TYR:CE1	1:DE:55:GLU:OE1	2.70	0.45
1:DD:157:LEU:HG	1:DD:164:ILE:HD11	1.99	0.45
1:DI:157:LEU:HA	1:DI:157:LEU:HD23	1.76	0.45
1:DM:2:TYR:HB3	1:DN:100:SER:HB2	1.99	0.45
1:DM:53:GLN:NE2	1:DM:97:ARG:HB3	2.31	0.45
1:DT:99:GLN:HB3	1:DT:110:ILE:HG23	1.99	0.45
1:DW:29:LYS:HD2	1:DW:48:ALA:HB2	1.99	0.45
1:DW:106:GLY:HA3	1:DY:100:SER:HB3	1.97	0.45
1:DY:106:GLY:HA3	1:GU:2:TYR:CD2	2.51	0.45
1:DY:144:GLN:HA	1:DZ:23:GLN:HB2	1.99	0.45
1:EA:78:PHE:HB3	1:IB:112:ASP:OD1	2.17	0.45
1:EC:26:LEU:O	1:EC:30:ALA:HB2	2.17	0.45
1:EH:44:TYR:OH	1:EI:166:GLY:O	2.31	0.45
1:EJ:138:ILE:HG21	1:EK:147:LEU:HD21	1.98	0.45
1:EN:8:TYR:CE1	1:EO:55:GLU:OE1	2.70	0.45
1:EW:37:GLN:HG3	1:EW:58:THR:HG21	1.98	0.45
1:EY:98:THR:HG23	1:EZ:4:GLN:HB3	1.98	0.45
1:FG:72:ASN:O	1:FH:95:ILE:HD11	2.17	0.45
1:FL:163:ARG:HB3	1:FL:166:GLY:OXT	2.15	0.45
1:FO:8:TYR:CE1	1:FP:55:GLU:OE1	2.70	0.45
1:FT:67:VAL:CG1	1:FT:85:GLY:HA3	2.47	0.45
1:FT:138:ILE:O	1:FT:142:ILE:HG13	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FT:144:GLN:HA	1:FU:23:GLN:HB2	1.99	0.45
1:FX:144:GLN:HA	1:FY:23:GLN:HB2	1.99	0.45
1:FZ:138:ILE:HG21	1:GA:147:LEU:HD21	1.98	0.45
1:GF:40:ASN:OD1	1:GG:162:THR:HG21	2.16	0.45
1:GH:55:GLU:OE1	1:GI:8:TYR:HE1	1.99	0.45
1:GJ:157:LEU:HG	1:GJ:164:ILE:HD11	1.99	0.45
1:GM:74:GLN:OE1	1:GZ:63:LYS:NZ	2.49	0.45
1:GN:145:LEU:HA	1:GN:145:LEU:HD23	1.82	0.45
1:HC:106:GLY:HA3	1:HE:100:SER:CB	2.47	0.45
1:HE:55:GLU:OE1	1:HF:8:TYR:CE1	2.68	0.45
1:HH:7:GLY:O	1:HI:50:PRO:HD3	2.17	0.45
1:HJ:67:VAL:CG1	1:HJ:85:GLY:HA3	2.47	0.45
1:HK:52:ASP:OD1	1:HK:97:ARG:NH2	2.36	0.45
1:HK:59:PHE:CD1	1:HK:90:ILE:HG12	2.52	0.45
1:HL:37:GLN:HG3	1:HL:58:THR:HG21	1.99	0.45
1:HV:55:GLU:OE1	1:HW:8:TYR:CE1	2.68	0.45
1:HW:153:VAL:HG22	1:HW:164:ILE:HG21	1.99	0.45
1:HX:29:LYS:HD2	1:HX:48:ALA:HB2	1.99	0.45
1:HX:106:GLY:HA3	1:HZ:100:SER:CB	2.47	0.45
1:HZ:23:GLN:HB2	1:IA:144:GLN:HA	1.99	0.45
1:HZ:67:VAL:HG21	1:HZ:124:ALA:HB2	1.98	0.45
1:AA:7:GLY:O	1:AB:50:PRO:HD3	2.17	0.45
1:AB:145:LEU:HD23	1:AB:145:LEU:HA	1.82	0.45
1:AD:59:PHE:CD1	1:AD:90:ILE:HG12	2.52	0.45
1:AG:102:ASP:OD1	1:AG:104:ASN:N	2.49	0.45
1:AL:124:ALA:O	1:AL:129:VAL:HG21	2.17	0.45
1:AY:87:LYS:HE3	1:AY:120:THR:CG2	2.47	0.45
1:BB:2:TYR:HB3	1:BC:100:SER:HB2	1.99	0.45
1:BE:43:THR:HG23	1:BE:58:THR:OG1	2.17	0.45
1:BF:137:THR:HG21	1:BG:115:LEU:HD23	1.98	0.45
1:BJ:8:TYR:CE1	1:BK:55:GLU:OE1	2.69	0.45
1:BL:53:GLN:NE2	1:BL:95:ILE:O	2.50	0.45
1:CA:144:GLN:HA	1:CB:23:GLN:HB2	1.99	0.45
1:CC:23:GLN:HB2	1:CD:144:GLN:HA	1.99	0.45
1:CL:104:ASN:HA	1:DG:103:VAL:CG2	2.47	0.45
1:CP:33:MET:HE3	1:CP:45:MET:HB2	1.99	0.45
1:CP:95:ILE:HG12	1:CQ:73:VAL:HG12	1.98	0.45
1:CX:8:TYR:CE1	1:CY:55:GLU:OE1	2.70	0.45
1:CX:23:GLN:HB2	1:CY:144:GLN:HA	1.99	0.45
1:DE:95:ILE:CG2	1:DE:112:ASP:HB2	2.46	0.45
1:DO:138:ILE:HG21	1:DP:147:LEU:HD21	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DQ:68:TYR:CE1	1:DR:114:PRO:HD3	2.51	0.45
1:DW:75:ASN:HD21	1:DW:77:THR:HB	1.81	0.45
1:DY:156:LYS:HB3	1:DY:161:VAL:HB	1.99	0.45
1:ED:53:GLN:NE2	1:ED:97:ARG:HB3	2.31	0.45
1:EE:87:LYS:HE3	1:EE:120:THR:CG2	2.47	0.45
1:EL:29:LYS:O	1:EL:47:THR:OG1	2.20	0.45
1:EN:138:ILE:HG21	1:EO:147:LEU:HD21	1.99	0.45
1:FF:43:THR:HG23	1:FF:58:THR:OG1	2.17	0.45
1:FF:102:ASP:HB2	1:FF:109:VAL:HG23	1.98	0.45
1:FL:85:GLY:HA2	1:FL:125:ASP:N	2.28	0.45
1:FU:87:LYS:HE3	1:FU:120:THR:CG2	2.47	0.45
1:GC:43:THR:HG23	1:GC:58:THR:OG1	2.16	0.45
1:GD:142:ILE:HD13	1:GE:142:ILE:HG23	1.97	0.45
1:GP:87:LYS:HE3	1:GP:120:THR:CG2	2.47	0.45
1:GY:22:TYR:HD2	1:GZ:140:TRP:HA	1.81	0.45
1:HE:156:LYS:HB3	1:HE:161:VAL:HB	1.99	0.45
1:HM:97:ARG:HA	1:HM:112:ASP:CB	2.47	0.45
1:HP:138:ILE:O	1:HP:142:ILE:HG13	2.17	0.45
1:HS:140:TRP:O	1:HS:144:GLN:HG2	2.17	0.45
1:AA:114:PRO:HG2	1:AB:67:VAL:CG1	2.44	0.45
1:AD:87:LYS:HE3	1:AD:120:THR:CG2	2.47	0.45
1:AF:59:PHE:CD1	1:AF:90:ILE:HG12	2.52	0.45
1:AG:114:PRO:HG2	1:AH:67:VAL:CG1	2.45	0.45
1:AG:138:ILE:HG21	1:AH:147:LEU:HD21	1.98	0.45
1:AI:138:ILE:HG21	1:AJ:147:LEU:HD21	1.98	0.45
1:AJ:100:SER:OG	1:GJ:105:THR:HG23	2.17	0.45
1:AK:68:TYR:CE1	1:AL:114:PRO:HD3	2.51	0.45
1:AK:137:THR:HG21	1:AL:115:LEU:HD23	1.98	0.45
1:AO:159:SER:OG	1:DL:51:LYS:HG2	2.17	0.45
1:AP:68:TYR:CE1	1:AP:79:TYR:HA	2.51	0.45
1:AP:153:VAL:HG22	1:AP:164:ILE:HG21	1.99	0.45
1:AT:75:ASN:HB3	1:AT:78:PHE:HD2	1.82	0.45
1:AT:95:ILE:CG2	1:AT:112:ASP:HB2	2.46	0.45
1:AV:157:LEU:HD23	1:AV:157:LEU:HA	1.82	0.45
1:AX:67:VAL:CG1	1:AX:85:GLY:HA3	2.47	0.45
1:AZ:157:LEU:HG	1:AZ:164:ILE:HD11	1.99	0.45
1:BB:2:TYR:HD2	1:CF:106:GLY:HA3	1.82	0.45
1:BB:157:LEU:HA	1:BB:157:LEU:HD23	1.74	0.45
1:BD:124:ALA:HB3	1:BE:113:CYS:HB3	1.99	0.45
1:BF:72:ASN:O	1:BG:95:ILE:HD11	2.17	0.45
1:BJ:99:GLN:CB	1:BJ:110:ILE:HG12	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BL:106:GLY:HA3	1:BN:100:SER:CB	2.47	0.45
1:BN:156:LYS:HB3	1:BN:161:VAL:HB	1.99	0.45
1:BZ:43:THR:HG23	1:BZ:58:THR:OG1	2.17	0.45
1:CI:23:GLN:HB2	1:CJ:144:GLN:HA	1.99	0.45
1:CI:55:GLU:OE1	1:CJ:8:TYR:CE1	2.68	0.45
1:CN:145:LEU:HD23	1:CN:145:LEU:HA	1.79	0.45
1:CW:140:TRP:O	1:CW:144:GLN:HG2	2.17	0.45
1:DD:142:ILE:HD13	1:DE:142:ILE:HG23	2.00	0.45
1:DF:85:GLY:HA2	1:DF:125:ASP:N	2.29	0.45
1:DI:144:GLN:HA	1:DJ:23:GLN:HB2	1.99	0.45
1:DK:157:LEU:HG	1:DK:164:ILE:HD11	1.99	0.45
1:DL:59:PHE:CD1	1:DL:90:ILE:HG12	2.52	0.45
1:DR:124:ALA:O	1:DR:129:VAL:HG21	2.17	0.45
1:DR:140:TRP:O	1:DR:144:GLN:HG2	2.17	0.45
1:DU:85:GLY:HA2	1:DU:125:ASP:N	2.28	0.45
1:DW:126:PHE:CD2	1:DW:128:LEU:HG	2.52	0.45
1:EB:29:LYS:O	1:EB:47:THR:OG1	2.26	0.45
1:EE:29:LYS:O	1:EE:47:THR:OG1	2.30	0.45
1:EI:29:LYS:O	1:EI:47:THR:OG1	2.22	0.45
1:EJ:97:ARG:HA	1:EJ:112:ASP:HB3	1.99	0.45
1:EL:144:GLN:HA	1:EM:23:GLN:HB2	1.99	0.45
1:ET:23:GLN:HB2	1:EU:144:GLN:HA	1.99	0.45
1:EX:77:THR:HB	1:FS:79:TYR:O	2.16	0.45
1:FE:124:ALA:HB3	1:FF:113:CYS:HB3	1.99	0.45
1:FL:153:VAL:HG22	1:FL:164:ILE:HG21	1.99	0.45
1:FM:75:ASN:HD21	1:FM:77:THR:HB	1.81	0.45
1:FX:2:TYR:HB3	1:FY:100:SER:HB2	1.99	0.45
1:GD:138:ILE:HG21	1:GE:147:LEU:HD21	1.99	0.45
1:GE:99:GLN:HB3	1:GE:110:ILE:HG23	1.99	0.45
1:GG:75:ASN:HB3	1:GG:78:PHE:HD2	1.82	0.45
1:GG:153:VAL:HG22	1:GG:164:ILE:HG21	1.99	0.45
1:GL:85:GLY:HA2	1:GL:125:ASP:N	2.29	0.45
1:GM:7:GLY:O	1:GN:50:PRO:HD3	2.17	0.45
1:GS:53:GLN:NE2	1:GS:97:ARG:HB3	2.31	0.45
1:GX:140:TRP:O	1:GX:144:GLN:HG2	2.17	0.45
1:GY:138:ILE:HG21	1:GZ:147:LEU:HD21	1.99	0.45
1:HE:75:ASN:HB2	1:HG:82:SER:HB3	1.99	0.45
1:AB:74:GLN:OE1	1:AW:127:THR:HA	2.17	0.44
1:AL:140:TRP:O	1:AL:144:GLN:HG2	2.17	0.44
1:AW:51:LYS:NZ	1:BI:131:ASP:OD1	2.50	0.44
1:AY:59:PHE:CD1	1:AY:90:ILE:HG12	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BB:144:GLN:HA	1:BC:23:GLN:HB2	1.99	0.44
1:BF:137:THR:HA	1:BG:94:ARG:HH11	1.82	0.44
1:BH:22:TYR:HD2	1:BI:140:TRP:HA	1.81	0.44
1:BO:95:ILE:CG2	1:BO:112:ASP:HB2	2.46	0.44
1:BQ:7:GLY:O	1:BR:50:PRO:HD3	2.17	0.44
1:BQ:97:ARG:O	1:BR:4:GLN:HA	2.17	0.44
1:BR:51:LYS:NZ	1:CD:131:ASP:OD1	2.50	0.44
1:BW:55:GLU:OE2	1:BX:140:TRP:NE1	2.49	0.44
1:CF:153:VAL:HG22	1:CF:164:ILE:HG21	1.99	0.44
1:CG:126:PHE:CD2	1:CG:128:LEU:HG	2.52	0.44
1:CI:156:LYS:HB3	1:CI:161:VAL:HB	1.99	0.44
1:CJ:95:ILE:CG2	1:CJ:112:ASP:HB2	2.46	0.44
1:CK:68:TYR:HB3	1:CK:79:TYR:CE2	2.52	0.44
1:CL:8:TYR:CE1	1:CM:55:GLU:OE1	2.69	0.44
1:CM:129:VAL:HG12	1:CM:134:ARG:NH2	2.31	0.44
1:CN:67:VAL:CG1	1:CN:85:GLY:HA3	2.47	0.44
1:CO:87:LYS:HE3	1:CO:120:THR:CG2	2.47	0.44
1:CP:157:LEU:HG	1:CP:164:ILE:HD11	1.98	0.44
1:CU:43:THR:HG23	1:CU:58:THR:OG1	2.17	0.44
1:CY:99:GLN:HB3	1:CY:110:ILE:HG23	1.99	0.44
1:DG:97:ARG:O	1:DH:4:GLN:HA	2.17	0.44
1:DI:53:GLN:NE2	1:DI:97:ARG:HB3	2.31	0.44
1:DQ:37:GLN:HG3	1:DQ:58:THR:HG21	1.97	0.44
1:DS:114:PRO:O	1:DS:115:LEU:HD12	2.16	0.44
1:DV:153:VAL:HG22	1:DV:164:ILE:HG21	1.99	0.44
1:DZ:75:ASN:HB3	1:DZ:78:PHE:HD2	1.82	0.44
1:EF:86:THR:OG1	1:EN:51:LYS:HE3	2.17	0.44
1:EI:59:PHE:CD1	1:EI:90:ILE:HG12	2.51	0.44
1:EP:40:ASN:OD1	1:EQ:162:THR:HG21	2.16	0.44
1:ER:126:PHE:CD2	1:ER:128:LEU:HG	2.52	0.44
1:EW:74:GLN:OE1	1:FJ:63:LYS:NZ	2.49	0.44
1:EW:97:ARG:O	1:EX:4:GLN:HA	2.17	0.44
1:EY:144:GLN:HA	1:EZ:23:GLN:HB2	1.99	0.44
1:FA:37:GLN:HG3	1:FA:58:THR:HG21	1.99	0.44
1:FG:137:THR:HA	1:FH:94:ARG:HH11	1.82	0.44
1:FH:140:TRP:O	1:FH:144:GLN:HG2	2.17	0.44
1:FQ:85:GLY:HA2	1:FQ:125:ASP:N	2.29	0.44
1:GA:72:ASN:O	1:GA:72:ASN:ND2	2.40	0.44
1:GI:134:ARG:O	1:GI:137:THR:HG22	2.16	0.44
1:GJ:75:ASN:HB2	1:GL:82:SER:HB3	1.99	0.44
1:GK:75:ASN:HB3	1:GK:78:PHE:HD2	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GR:153:VAL:HG13	1:GR:164:ILE:HD13	1.99	0.44
1:GZ:99:GLN:HB3	1:GZ:110:ILE:HG23	1.99	0.44
1:HH:37:GLN:HG3	1:HH:58:THR:HG21	1.98	0.44
1:HN:138:ILE:O	1:HN:142:ILE:HG13	2.18	0.44
1:HR:137:THR:HA	1:HS:94:ARG:HH11	1.82	0.44
1:HS:43:THR:HG23	1:HS:58:THR:OG1	2.16	0.44
1:HV:40:ASN:OD1	1:HW:162:THR:HG21	2.16	0.44
1:HZ:75:ASN:HB2	1:IB:82:SER:HB3	1.99	0.44
1:AE:126:PHE:HD2	1:AE:128:LEU:HG	1.83	0.44
1:AF:153:VAL:HG13	1:AF:164:ILE:HD13	1.99	0.44
1:AG:67:VAL:CG1	1:AG:85:GLY:HA3	2.47	0.44
1:AO:99:GLN:CB	1:AO:110:ILE:HG12	2.46	0.44
1:AY:101:THR:HA	1:AY:108:PRO:HA	1.98	0.44
1:AZ:37:GLN:HG3	1:AZ:58:THR:HG21	1.99	0.44
1:BF:144:GLN:HA	1:BG:23:GLN:HB2	1.99	0.44
1:CI:67:VAL:HG21	1:CI:124:ALA:HB2	1.98	0.44
1:CK:97:ARG:HB2	1:CK:112:ASP:HB3	2.00	0.44
1:CP:37:GLN:HG3	1:CP:58:THR:HG21	1.99	0.44
1:CU:102:ASP:HB2	1:CU:109:VAL:HG23	1.98	0.44
1:CW:124:ALA:O	1:CW:129:VAL:HG21	2.17	0.44
1:DW:55:GLU:OE1	1:DX:8:TYR:HE1	1.99	0.44
1:EA:8:TYR:HE1	1:IB:55:GLU:OE1	2.00	0.44
1:EC:82:SER:C	1:HI:75:ASN:ND2	2.70	0.44
1:EF:95:ILE:HG12	1:EG:73:VAL:HG12	1.98	0.44
1:EH:120:THR:HB	1:EI:118:SER:HB2	2.00	0.44
1:EH:144:GLN:HA	1:EI:23:GLN:HB2	1.98	0.44
1:EM:124:ALA:O	1:EM:129:VAL:HG21	2.18	0.44
1:EV:97:ARG:HB2	1:EV:112:ASP:HB3	1.99	0.44
1:FG:137:THR:HG21	1:FH:115:LEU:HD23	1.98	0.44
1:FH:124:ALA:O	1:FH:129:VAL:HG21	2.17	0.44
1:FS:51:LYS:NZ	1:GE:131:ASP:OD1	2.50	0.44
1:FT:98:THR:HG23	1:FU:4:GLN:HB3	1.98	0.44
1:GF:8:TYR:CE1	1:GG:55:GLU:OE1	2.69	0.44
1:GO:67:VAL:CG1	1:GO:85:GLY:HA3	2.47	0.44
1:GO:86:THR:OG1	1:HA:51:LYS:HE3	2.16	0.44
1:GP:52:ASP:OD1	1:GP:97:ARG:NH2	2.36	0.44
1:GS:2:TYR:HB3	1:GT:100:SER:HB2	1.99	0.44
1:GS:144:GLN:HA	1:GT:23:GLN:HB2	1.99	0.44
1:GX:124:ALA:O	1:GX:129:VAL:HG21	2.17	0.44
1:HB:153:VAL:HG22	1:HB:164:ILE:HG21	1.99	0.44
1:HJ:138:ILE:O	1:HJ:142:ILE:HG13	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HJ:144:GLN:HA	1:HK:23:GLN:HB2	1.99	0.44
1:HN:120:THR:HB	1:HO:118:SER:HB2	2.00	0.44
1:HV:85:GLY:HA2	1:HV:125:ASP:N	2.28	0.44
1:HX:126:PHE:CD2	1:HX:128:LEU:HG	2.52	0.44
1:AG:2:TYR:HB3	1:AH:100:SER:HB2	1.99	0.44
1:AJ:102:ASP:HB2	1:AJ:109:VAL:HG23	1.98	0.44
1:AK:72:ASN:O	1:AL:95:ILE:HD11	2.16	0.44
1:BB:67:VAL:CG1	1:BB:85:GLY:HA3	2.47	0.44
1:BB:138:ILE:O	1:BB:142:ILE:HG13	2.18	0.44
1:BH:142:ILE:HD13	1:BI:142:ILE:HG23	1.98	0.44
1:BN:144:GLN:HA	1:BO:23:GLN:HB2	1.99	0.44
1:BP:138:ILE:HG21	1:GL:147:LEU:HD21	1.99	0.44
1:BW:2:TYR:HB3	1:BX:100:SER:HB2	1.99	0.44
1:BW:138:ILE:O	1:BW:142:ILE:HG13	2.18	0.44
1:CA:72:ASN:O	1:CB:95:ILE:HD11	2.16	0.44
1:CB:1:SER:O	1:CB:1:SER:OG	2.33	0.44
1:CP:86:THR:OG1	1:CX:51:LYS:HE3	2.18	0.44
1:CR:67:VAL:CG1	1:CR:85:GLY:HA3	2.47	0.44
1:CR:138:ILE:O	1:CR:142:ILE:HG13	2.18	0.44
1:DL:153:VAL:HG13	1:DL:164:ILE:HD13	1.99	0.44
1:DR:51:LYS:NZ	1:DV:159:SER:OG	2.50	0.44
1:DS:138:ILE:HG21	1:DT:147:LEU:HD21	1.99	0.44
1:DW:106:GLY:HA3	1:DY:100:SER:CB	2.47	0.44
1:EC:126:PHE:O	1:HI:74:GLN:CD	2.56	0.44
1:EL:137:THR:HA	1:EM:94:ARG:HH11	1.82	0.44
1:ER:106:GLY:HA3	1:ET:100:SER:CB	2.47	0.44
1:ET:75:ASN:HB2	1:EV:82:SER:HB3	1.99	0.44
1:ET:102:ASP:HB3	1:ET:105:THR:O	2.18	0.44
1:EZ:59:PHE:CD1	1:EZ:90:ILE:HG12	2.52	0.44
1:FA:126:PHE:HD2	1:FA:128:LEU:HG	1.82	0.44
1:FB:85:GLY:HA2	1:FB:125:ASP:H	1.82	0.44
1:FB:153:VAL:HG13	1:FB:164:ILE:HD13	1.99	0.44
1:FC:53:GLN:NE2	1:FC:97:ARG:HB3	2.31	0.44
1:FH:29:LYS:O	1:FH:47:THR:OG1	2.26	0.44
1:FR:144:GLN:HA	1:FS:23:GLN:HB2	1.99	0.44
1:FS:75:ASN:ND2	1:GN:84:LYS:H	2.14	0.44
1:FV:102:ASP:OD1	1:FV:104:ASN:N	2.46	0.44
1:GC:124:ALA:O	1:GC:129:VAL:HG21	2.17	0.44
1:GE:37:GLN:HG3	1:GE:58:THR:HG21	2.00	0.44
1:GE:145:LEU:HD23	1:GE:145:LEU:HA	1.86	0.44
1:GH:85:GLY:HA2	1:GH:125:ASP:N	2.27	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GN:153:VAL:HG13	1:GN:164:ILE:CD1	2.46	0.44
1:GO:98:THR:HG23	1:GP:4:GLN:HB3	1.98	0.44
1:GR:85:GLY:HA2	1:GR:125:ASP:H	1.81	0.44
1:GS:102:ASP:OD1	1:GS:104:ASN:N	2.49	0.44
1:GS:138:ILE:O	1:GS:142:ILE:HG13	2.18	0.44
1:GW:157:LEU:HA	1:GW:157:LEU:HD23	1.73	0.44
1:HC:75:ASN:ND2	1:HC:77:THR:HB	2.33	0.44
1:HN:144:GLN:HA	1:HO:23:GLN:HB2	1.99	0.44
1:AE:144:GLN:HA	1:AF:23:GLN:HB2	2.00	0.44
1:AG:144:GLN:HA	1:AH:23:GLN:HB2	1.99	0.44
1:AQ:8:TYR:CE1	1:AR:55:GLU:OE1	2.68	0.44
1:AZ:126:PHE:HD2	1:AZ:128:LEU:HG	1.83	0.44
1:BQ:37:GLN:HG3	1:BQ:58:THR:HG21	1.98	0.44
1:BS:98:THR:HG23	1:BT:4:GLN:HB3	1.98	0.44
1:BT:87:LYS:HE3	1:BT:120:THR:CG2	2.47	0.44
1:BV:29:LYS:O	1:BV:47:THR:OG1	2.29	0.44
1:BW:120:THR:HB	1:BX:118:SER:HB2	2.00	0.44
1:CE:126:PHE:HD2	1:CE:128:LEU:HG	1.80	0.44
1:CI:75:ASN:HB2	1:CK:82:SER:HB3	1.99	0.44
1:CI:157:LEU:HG	1:CI:164:ILE:HD11	1.99	0.44
1:CR:2:TYR:HB3	1:CS:100:SER:HB2	1.99	0.44
1:CZ:8:TYR:CE1	1:DA:55:GLU:OE1	2.69	0.44
1:DD:145:LEU:HD23	1:DD:145:LEU:HA	1.79	0.44
1:DI:67:VAL:CG1	1:DI:85:GLY:HA3	2.47	0.44
1:DO:97:ARG:HA	1:DO:112:ASP:HB3	1.99	0.44
1:DR:43:THR:HG23	1:DR:58:THR:OG1	2.16	0.44
1:EC:51:LYS:NZ	1:EO:131:ASP:OD1	2.50	0.44
1:EF:145:LEU:HD23	1:EF:145:LEU:HA	1.71	0.44
1:EG:59:PHE:CD1	1:EG:90:ILE:HG12	2.52	0.44
1:ET:144:GLN:HA	1:EU:23:GLN:HB2	1.99	0.44
1:EW:32:TYR:HE1	1:EW:42:ALA:HB1	1.80	0.44
1:FC:138:ILE:O	1:FC:142:ILE:HG13	2.18	0.44
1:FG:144:GLN:HA	1:FH:23:GLN:HB2	1.99	0.44
1:FO:142:ILE:HD13	1:FP:142:ILE:HG23	2.00	0.44
1:FO:144:GLN:HA	1:FP:23:GLN:HB2	1.99	0.44
1:FQ:97:ARG:HB2	1:FQ:112:ASP:HB3	2.00	0.44
1:FS:129:VAL:HG12	1:FS:134:ARG:NH2	2.31	0.44
1:FV:95:ILE:HG12	1:FW:73:VAL:HG12	1.98	0.44
1:FX:102:ASP:OD1	1:FX:104:ASN:N	2.49	0.44
1:GB:145:LEU:HA	1:GB:145:LEU:HD23	1.79	0.44
1:GJ:156:LYS:HB3	1:GJ:161:VAL:HB	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HR:68:TYR:CE1	1:HS:114:PRO:HD3	2.51	0.44
1:HR:144:GLN:HA	1:HS:23:GLN:HB2	1.99	0.44
1:HS:124:ALA:O	1:HS:129:VAL:HG21	2.17	0.44
1:HT:19:ILE:HD12	1:HU:17:LEU:HD12	1.98	0.44
1:IB:97:ARG:HB2	1:IB:112:ASP:HB3	2.00	0.44
1:AA:97:ARG:O	1:AB:4:GLN:HA	2.17	0.44
1:AU:53:GLN:NE2	1:HG:7:GLY:CA	2.81	0.44
1:AW:75:ASN:OD1	1:BR:125:ASP:O	2.36	0.44
1:AW:103:VAL:HG23	1:CD:104:ASN:O	2.17	0.44
1:AW:153:VAL:HG13	1:AW:164:ILE:CD1	2.46	0.44
1:BF:166:GLY:O	1:BG:44:TYR:OH	2.36	0.44
1:BI:102:ASP:HB3	1:BI:105:THR:O	2.18	0.44
1:BN:23:GLN:HB2	1:BO:144:GLN:HA	1.99	0.44
1:BN:102:ASP:HB3	1:BN:105:THR:O	2.18	0.44
1:BP:97:ARG:HB2	1:BP:112:ASP:HB3	2.00	0.44
1:BV:97:ARG:HA	1:BV:112:ASP:CB	2.47	0.44
1:BY:138:ILE:O	1:BY:142:ILE:HG13	2.17	0.44
1:CG:75:ASN:ND2	1:CG:77:THR:HB	2.33	0.44
1:CI:102:ASP:HB3	1:CI:105:THR:O	2.18	0.44
1:CK:23:GLN:HA	1:FQ:144:GLN:NE2	2.32	0.44
1:CP:144:GLN:HA	1:CQ:23:GLN:HB2	2.00	0.44
1:DA:153:VAL:HG22	1:DA:164:ILE:HG21	1.99	0.44
1:DB:106:GLY:HA3	1:DD:100:SER:CB	2.47	0.44
1:DD:23:GLN:HB2	1:DE:144:GLN:HA	1.99	0.44
1:DK:86:THR:OG1	1:DS:51:LYS:HE3	2.18	0.44
1:DK:112:ASP:O	1:DL:76:GLN:NE2	2.29	0.44
1:DQ:166:GLY:O	1:DR:44:TYR:OH	2.36	0.44
1:DT:102:ASP:HB3	1:DT:105:THR:O	2.18	0.44
1:DY:75:ASN:HB2	1:EA:82:SER:HB3	1.99	0.44
1:EB:37:GLN:HG3	1:EB:58:THR:HG21	1.98	0.44
1:EE:59:PHE:CD1	1:EE:90:ILE:HG12	2.52	0.44
1:EF:29:LYS:O	1:EF:47:THR:OG1	2.25	0.44
1:EL:128:LEU:HD22	1:EM:98:THR:HG21	2.00	0.44
1:EN:23:GLN:HB2	1:EO:144:GLN:HA	1.99	0.44
1:EO:102:ASP:HB3	1:EO:105:THR:O	2.18	0.44
1:EU:85:GLY:HA2	1:EU:125:ASP:N	2.28	0.44
1:EW:33:MET:HE1	1:EW:45:MET:HB2	1.99	0.44
1:EY:138:ILE:O	1:EY:142:ILE:HG13	2.16	0.44
1:FI:23:GLN:HB2	1:FJ:144:GLN:HA	1.99	0.44
1:FM:126:PHE:CD2	1:FM:128:LEU:HG	2.52	0.44
1:FW:97:ARG:HA	1:FW:112:ASP:CB	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GB:59:PHE:CD1	1:GB:90:ILE:HG12	2.53	0.44
1:GF:23:GLN:HB2	1:GG:144:GLN:HA	1.98	0.44
1:GH:126:PHE:CD2	1:GH:128:LEU:HG	2.52	0.44
1:GS:67:VAL:CG1	1:GS:85:GLY:HA3	2.47	0.44
1:GU:124:ALA:HB3	1:GV:113:CYS:HB3	1.99	0.44
1:HA:126:PHE:HD2	1:HA:128:LEU:HG	1.80	0.44
1:HK:87:LYS:HE3	1:HK:120:THR:CG2	2.47	0.44
1:HM:59:PHE:CD1	1:HM:90:ILE:HG12	2.52	0.44
1:HP:124:ALA:HB3	1:HQ:113:CYS:HB3	1.99	0.44
1:HZ:8:TYR:CE1	1:IA:55:GLU:OE1	2.70	0.44
1:AA:82:SER:HB3	1:BH:75:ASN:CB	2.43	0.44
1:AB:51:LYS:NZ	1:AN:131:ASP:OD1	2.50	0.44
1:AC:142:ILE:HD13	1:AD:142:ILE:CG2	2.48	0.44
1:AE:102:ASP:OD1	1:AE:104:ASN:N	2.46	0.44
1:AK:137:THR:HA	1:AL:94:ARG:HH11	1.82	0.44
1:AO:2:TYR:HB3	1:AP:100:SER:HB3	2.00	0.44
1:AO:8:TYR:CE1	1:AP:55:GLU:OE1	2.69	0.44
1:AW:26:LEU:O	1:AW:30:ALA:HB2	2.17	0.44
1:BI:145:LEU:HD23	1:BI:145:LEU:HA	1.86	0.44
1:BJ:140:TRP:HA	1:BK:22:TYR:HD2	1.79	0.44
1:BN:85:GLY:HA2	1:BN:125:ASP:HB2	2.00	0.44
1:BO:85:GLY:HA2	1:BO:125:ASP:N	2.28	0.44
1:BQ:138:ILE:HG21	1:BR:147:LEU:HD21	2.00	0.44
1:BS:142:ILE:HD13	1:BT:142:ILE:CG2	2.48	0.44
1:BV:59:PHE:CD1	1:BV:90:ILE:HG12	2.52	0.44
1:BY:124:ALA:HB3	1:BZ:113:CYS:HB3	1.99	0.44
1:CQ:59:PHE:CD1	1:CQ:90:ILE:HG12	2.52	0.44
1:CQ:85:GLY:HA2	1:CQ:125:ASP:H	1.82	0.44
1:CT:138:ILE:HG21	1:CU:147:LEU:HD21	1.98	0.44
1:CV:144:GLN:HA	1:CW:23:GLN:HB2	1.99	0.44
1:DB:29:LYS:HD2	1:DB:48:ALA:HB2	1.99	0.44
1:DB:75:ASN:ND2	1:DB:77:THR:HB	2.33	0.44
1:DG:157:LEU:HD23	1:DG:157:LEU:HA	1.82	0.44
1:DJ:87:LYS:HE3	1:DJ:120:THR:CG2	2.47	0.44
1:DK:95:ILE:HG12	1:DL:73:VAL:HG12	1.98	0.44
1:DS:8:TYR:CE1	1:DT:55:GLU:OE1	2.70	0.44
1:DU:2:TYR:HB3	1:DV:100:SER:HB3	2.00	0.44
1:DW:75:ASN:ND2	1:DW:77:THR:HB	2.33	0.44
1:EB:135:LYS:O	1:EB:139:GLU:HG3	2.18	0.44
1:EL:72:ASN:O	1:EM:95:ILE:HD11	2.16	0.44
1:EO:99:GLN:HB3	1:EO:110:ILE:HG23	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EP:8:TYR:CE1	1:EQ:55:GLU:OE1	2.69	0.44
1:ET:8:TYR:CE1	1:EU:55:GLU:OE1	2.70	0.44
1:ET:85:GLY:HA2	1:ET:125:ASP:HB2	2.00	0.44
1:ET:142:ILE:HD13	1:EU:142:ILE:HG23	2.00	0.44
1:EU:75:ASN:HB3	1:EU:78:PHE:HD2	1.81	0.44
1:EZ:87:LYS:HE3	1:EZ:120:THR:CG2	2.47	0.44
1:FC:120:THR:HB	1:FD:118:SER:HB2	2.00	0.44
1:FC:144:GLN:HA	1:FD:23:GLN:HB2	1.99	0.44
1:FE:138:ILE:O	1:FE:142:ILE:HG13	2.17	0.44
1:FI:67:VAL:HG22	1:FI:83:SER:O	2.18	0.44
1:FO:23:GLN:HB2	1:FP:144:GLN:HA	1.99	0.44
1:FR:7:GLY:O	1:FS:50:PRO:HD3	2.17	0.44
1:FW:153:VAL:HG13	1:FW:164:ILE:HD13	1.99	0.44
1:GB:128:LEU:HD22	1:GC:98:THR:HG21	2.00	0.44
1:GB:166:GLY:O	1:GC:44:TYR:OH	2.36	0.44
1:GD:23:GLN:HB2	1:GE:144:GLN:HA	1.99	0.44
1:GF:2:TYR:HB3	1:GG:100:SER:HB3	2.00	0.44
1:GW:68:TYR:CE1	1:GX:114:PRO:HD3	2.51	0.44
1:GX:29:LYS:O	1:GX:47:THR:OG1	2.26	0.44
1:HC:29:LYS:HD2	1:HC:48:ALA:HB2	1.99	0.44
1:HC:97:ARG:HB2	1:HC:112:ASP:HB3	2.00	0.44
1:HE:102:ASP:HB3	1:HE:105:THR:O	2.18	0.44
1:HL:126:PHE:HD2	1:HL:128:LEU:HG	1.83	0.44
1:HN:67:VAL:CG1	1:HN:85:GLY:HA3	2.47	0.44
1:HR:72:ASN:O	1:HS:95:ILE:HD11	2.17	0.44
1:HW:75:ASN:HB3	1:HW:78:PHE:HD2	1.82	0.44
1:AA:138:ILE:HG21	1:AB:147:LEU:HD21	2.00	0.44
1:AI:82:SER:HB3	1:GK:75:ASN:CB	2.48	0.44
1:AK:144:GLN:HA	1:AL:23:GLN:HB2	1.99	0.44
1:AQ:129:VAL:CG2	1:AQ:134:ARG:HH22	2.31	0.44
1:AS:85:GLY:HA2	1:AS:125:ASP:HB2	2.00	0.44
1:AU:97:ARG:O	1:HG:4:GLN:HA	2.18	0.44
1:AV:135:LYS:O	1:AV:139:GLU:HG3	2.18	0.44
1:BE:104:ASN:ND2	1:FF:104:ASN:HD21	2.15	0.44
1:BG:140:TRP:O	1:BG:144:GLN:HG2	2.18	0.44
1:BN:157:LEU:HG	1:BN:164:ILE:HD11	1.99	0.44
1:BP:17:LEU:HD12	1:GL:19:ILE:HD12	2.00	0.44
1:BU:86:THR:OG1	1:CC:51:LYS:HE3	2.18	0.44
1:BY:97:ARG:HA	1:BY:112:ASP:HB3	1.99	0.44
1:CA:59:PHE:CD1	1:CA:90:ILE:HG12	2.53	0.44
1:CA:166:GLY:O	1:CB:44:TYR:OH	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CE:8:TYR:CE1	1:CF:55:GLU:OE1	2.69	0.44
1:CG:53:GLN:NE2	1:CG:95:ILE:O	2.50	0.44
1:CG:67:VAL:HG11	1:CG:124:ALA:HA	2.00	0.44
1:CI:142:ILE:HD13	1:CJ:142:ILE:HG23	2.00	0.44
1:CK:4:GLN:HA	1:FQ:97:ARG:O	2.18	0.44
1:DB:8:TYR:CE1	1:DC:55:GLU:OE1	2.68	0.44
1:DD:67:VAL:HG21	1:DD:124:ALA:HB2	1.98	0.44
1:DG:8:TYR:CE1	1:DH:55:GLU:OE1	2.69	0.44
1:DQ:19:ILE:HD12	1:DR:17:LEU:HD12	2.00	0.44
1:DQ:137:THR:HA	1:DR:94:ARG:HH11	1.82	0.44
1:DQ:144:GLN:HA	1:DR:23:GLN:HB2	1.99	0.44
1:EP:140:TRP:HA	1:EQ:22:TYR:HD2	1.79	0.44
1:ER:75:ASN:ND2	1:ER:77:THR:HB	2.33	0.44
1:FA:157:LEU:HG	1:FA:164:ILE:HD11	1.98	0.44
1:FD:157:LEU:HD23	1:FD:157:LEU:HA	1.82	0.44
1:FK:126:PHE:HD2	1:FK:128:LEU:HG	1.80	0.44
1:FM:106:GLY:HA3	1:FO:100:SER:CB	2.47	0.44
1:FV:86:THR:OG1	1:GD:51:LYS:HE3	2.18	0.44
1:FW:59:PHE:CD1	1:FW:90:ILE:HG12	2.52	0.44
1:FZ:138:ILE:O	1:FZ:142:ILE:HG13	2.17	0.44
1:GA:43:THR:HG23	1:GA:58:THR:OG1	2.17	0.44
1:GH:75:ASN:ND2	1:GH:77:THR:HB	2.33	0.44
1:GU:97:ARG:HA	1:GU:112:ASP:HB3	1.99	0.44
1:GW:33:MET:HE1	1:GW:45:MET:HB2	2.00	0.44
1:GY:19:ILE:HD12	1:GZ:17:LEU:HD12	1.98	0.44
1:HB:85:GLY:HA2	1:HB:125:ASP:N	2.29	0.44
1:HC:126:PHE:CD2	1:HC:128:LEU:HG	2.52	0.44
1:HD:163:ARG:HB3	1:HD:166:GLY:O	2.18	0.44
1:HE:23:GLN:HB2	1:HF:144:GLN:HA	1.99	0.44
1:HL:157:LEU:HG	1:HL:164:ILE:HD11	1.98	0.44
1:HZ:85:GLY:HA2	1:HZ:125:ASP:HB2	2.00	0.44
1:AG:120:THR:HB	1:AH:118:SER:HB2	2.00	0.44
1:AK:59:PHE:CD1	1:AK:90:ILE:HG12	2.53	0.44
1:AL:157:LEU:HD23	1:AL:157:LEU:HA	1.81	0.44
1:AN:99:GLN:HB3	1:AN:110:ILE:HG23	1.99	0.44
1:AQ:97:ARG:HB2	1:AQ:112:ASP:HB3	2.00	0.44
1:AS:75:ASN:HB2	1:AU:82:SER:HB3	1.99	0.44
1:AV:8:TYR:CE1	1:AW:55:GLU:OE1	2.69	0.44
1:BH:85:GLY:HA2	1:BH:125:ASP:N	2.26	0.44
1:BQ:107:LEU:HD23	1:CM:2:TYR:CD2	2.53	0.44
1:BY:72:ASN:O	1:BY:72:ASN:ND2	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:128:LEU:HD22	1:CB:98:THR:HG21	2.00	0.44
1:CA:153:VAL:HG13	1:CA:164:ILE:HD13	2.00	0.44
1:CH:163:ARG:HB3	1:CH:166:GLY:O	2.18	0.44
1:CM:153:VAL:HG13	1:CM:164:ILE:CD1	2.46	0.44
1:CV:59:PHE:CD1	1:CV:90:ILE:HG12	2.53	0.44
1:CV:166:GLY:O	1:CW:44:TYR:OH	2.36	0.44
1:CY:37:GLN:HG3	1:CY:58:THR:HG21	2.00	0.44
1:CY:102:ASP:HB3	1:CY:105:THR:O	2.18	0.44
1:CZ:2:TYR:HB3	1:DA:100:SER:HB3	2.00	0.44
1:DD:75:ASN:HB2	1:DF:82:SER:HB3	1.99	0.44
1:DD:144:GLN:HA	1:DE:23:GLN:HB2	1.99	0.44
1:DF:4:GLN:OE1	1:EV:96:TRP:NE1	2.50	0.44
1:DM:67:VAL:CG1	1:DM:85:GLY:HA3	2.47	0.44
1:DM:144:GLN:HA	1:DN:23:GLN:HB2	1.98	0.44
1:DT:37:GLN:HG3	1:DT:58:THR:HG21	2.00	0.44
1:DY:102:ASP:HB3	1:DY:105:THR:O	2.18	0.44
1:ED:67:VAL:CG1	1:ED:85:GLY:HA3	2.47	0.44
1:EH:67:VAL:CG1	1:EH:85:GLY:HA3	2.47	0.44
1:EL:102:ASP:OD1	1:EL:104:ASN:N	2.51	0.44
1:FG:59:PHE:CD1	1:FG:90:ILE:HG12	2.53	0.44
1:FG:157:LEU:HA	1:FG:157:LEU:HD23	1.73	0.44
1:FI:138:ILE:HG21	1:FJ:147:LEU:HD21	1.99	0.44
1:FM:67:VAL:HG11	1:FM:124:ALA:HA	2.00	0.44
1:FT:145:LEU:HD23	1:FT:145:LEU:HA	1.79	0.44
1:FW:85:GLY:HA2	1:FW:125:ASP:H	1.81	0.44
1:GC:140:TRP:O	1:GC:144:GLN:HG2	2.17	0.44
1:GJ:157:LEU:HD23	1:GJ:157:LEU:HA	1.83	0.44
1:GO:144:GLN:HA	1:GP:23:GLN:HB2	1.99	0.44
1:GQ:126:PHE:HD2	1:GQ:128:LEU:HG	1.83	0.44
1:GQ:157:LEU:HG	1:GQ:164:ILE:HD11	1.99	0.44
1:GR:59:PHE:CD1	1:GR:90:ILE:HG12	2.52	0.44
1:GW:166:GLY:O	1:GX:44:TYR:OH	2.36	0.44
1:HE:85:GLY:HA2	1:HE:125:ASP:HB2	2.00	0.44
1:HE:157:LEU:HG	1:HE:164:ILE:HD11	1.99	0.44
1:HZ:102:ASP:HB3	1:HZ:105:THR:O	2.18	0.44
1:AA:98:THR:HG21	1:AB:128:LEU:HD22	2.00	0.44
1:AA:135:LYS:O	1:AA:139:GLU:HG3	2.18	0.44
1:AC:144:GLN:HA	1:AD:23:GLN:HB2	1.99	0.44
1:AF:145:LEU:HD23	1:AF:145:LEU:HA	1.73	0.44
1:AG:138:ILE:O	1:AG:142:ILE:HG13	2.18	0.44
1:AS:157:LEU:HG	1:AS:164:ILE:HD11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:153:VAL:HG13	1:BF:164:ILE:HD13	2.00	0.44
1:BL:68:TYR:CE1	1:BL:79:TYR:HA	2.53	0.44
1:BQ:2:TYR:CD2	1:CY:106:GLY:HA3	2.52	0.44
1:BQ:135:LYS:O	1:BQ:139:GLU:HG3	2.18	0.44
1:BU:144:GLN:HA	1:BV:23:GLN:HB2	2.00	0.44
1:BW:102:ASP:OD1	1:BW:104:ASN:N	2.49	0.44
1:CB:124:ALA:O	1:CB:129:VAL:HG21	2.17	0.44
1:CD:85:GLY:HA2	1:CD:125:ASP:N	2.28	0.44
1:CG:68:TYR:CE1	1:CG:79:TYR:HA	2.53	0.44
1:CL:144:GLN:HA	1:CM:23:GLN:HB2	1.99	0.44
1:CM:103:VAL:HG23	1:DT:104:ASN:O	2.17	0.44
1:CN:144:GLN:HA	1:CO:23:GLN:HB2	1.99	0.44
1:CP:126:PHE:HD2	1:CP:128:LEU:HG	1.83	0.44
1:CQ:153:VAL:HG13	1:CQ:164:ILE:HD13	1.99	0.44
1:CR:120:THR:HB	1:CS:118:SER:HB2	2.00	0.44
1:CS:157:LEU:HD23	1:CS:157:LEU:HA	1.82	0.44
1:CT:97:ARG:HA	1:CT:112:ASP:HB3	1.99	0.44
1:CX:138:ILE:HG21	1:CY:147:LEU:HD21	1.99	0.44
1:DE:75:ASN:HB3	1:DE:78:PHE:HD2	1.82	0.44
1:DF:98:THR:CB	1:EV:128:LEU:HD13	2.48	0.44
1:DO:124:ALA:HB3	1:DP:113:CYS:HB3	1.99	0.44
1:DP:43:THR:HG23	1:DP:58:THR:OG1	2.17	0.44
1:DY:142:ILE:HD13	1:DZ:142:ILE:HG23	2.00	0.44
1:DY:157:LEU:HD23	1:DY:157:LEU:HA	1.83	0.44
1:DZ:85:GLY:HA2	1:DZ:125:ASP:N	2.28	0.44
1:EA:67:VAL:HG11	1:EA:124:ALA:HA	2.00	0.44
1:EB:144:GLN:HA	1:EC:23:GLN:HB2	1.99	0.44
1:EF:157:LEU:HG	1:EF:164:ILE:HD11	1.99	0.44
1:EG:131:ASP:OD2	1:EG:134:ARG:NH1	2.51	0.44
1:EH:138:ILE:O	1:EH:142:ILE:HG13	2.18	0.44
1:EH:145:LEU:HD23	1:EH:145:LEU:HA	1.76	0.44
1:FB:59:PHE:CD1	1:FB:90:ILE:HG12	2.52	0.44
1:FB:131:ASP:OD2	1:FB:134:ARG:NH1	2.51	0.44
1:FD:153:VAL:HG13	1:FD:164:ILE:HD13	2.00	0.44
1:FE:97:ARG:HA	1:FE:112:ASP:HB3	1.99	0.44
1:FK:144:GLN:HA	1:FL:23:GLN:HB2	2.00	0.44
1:FW:131:ASP:OD2	1:FW:134:ARG:NH1	2.51	0.44
1:FX:67:VAL:CG1	1:FX:85:GLY:HA3	2.47	0.44
1:GH:162:THR:HG21	1:GI:40:ASN:OD1	2.18	0.44
1:GJ:85:GLY:HA2	1:GJ:125:ASP:HB2	2.00	0.44
1:GQ:86:THR:OG1	1:GY:51:LYS:HE3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GQ:145:LEU:HD23	1:GQ:145:LEU:HA	1.71	0.44
1:GU:157:LEU:HA	1:GU:157:LEU:HD23	1.78	0.44
1:HC:68:TYR:CE1	1:HC:79:TYR:HA	2.53	0.44
1:HG:67:VAL:HG11	1:HG:124:ALA:HA	2.00	0.44
1:HH:135:LYS:O	1:HH:139:GLU:HG3	2.18	0.44
1:HL:86:THR:OG1	1:HT:51:LYS:HE3	2.18	0.44
1:HL:144:GLN:HA	1:HM:23:GLN:HB2	2.00	0.44
1:HR:166:GLY:O	1:HS:44:TYR:OH	2.36	0.44
1:HX:75:ASN:ND2	1:HX:77:THR:HB	2.33	0.44
1:AF:131:ASP:OD2	1:AF:134:ARG:NH1	2.51	0.43
1:AN:37:GLN:HG3	1:AN:58:THR:HG21	2.00	0.43
1:AQ:53:GLN:NE2	1:AQ:95:ILE:O	2.50	0.43
1:BB:120:THR:HB	1:BC:118:SER:HB2	2.00	0.43
1:BJ:2:TYR:HB3	1:BK:100:SER:HB3	2.00	0.43
1:BK:75:ASN:HB3	1:BK:78:PHE:HD2	1.82	0.43
1:BL:75:ASN:ND2	1:BL:77:THR:HB	2.33	0.43
1:BL:129:VAL:CG2	1:BL:134:ARG:HH22	2.31	0.43
1:BN:8:TYR:CE1	1:BO:55:GLU:OE1	2.70	0.43
1:BP:78:PHE:HB3	1:GL:112:ASP:OD1	2.18	0.43
1:BS:67:VAL:CG1	1:BS:85:GLY:HA3	2.47	0.43
1:BV:87:LYS:HE3	1:BV:120:THR:CG2	2.48	0.43
1:CI:85:GLY:HA2	1:CI:125:ASP:HB2	2.00	0.43
1:CL:138:ILE:HG21	1:CM:147:LEU:HD21	2.00	0.43
1:CO:145:LEU:HD23	1:CO:145:LEU:HA	1.78	0.43
1:CQ:87:LYS:HE3	1:CQ:120:THR:CG2	2.48	0.43
1:DE:51:LYS:HE2	1:DF:86:THR:HG21	2.00	0.43
1:DS:67:VAL:HG22	1:DS:83:SER:O	2.18	0.43
1:DU:8:TYR:CE1	1:DV:55:GLU:OE1	2.69	0.43
1:DW:97:ARG:HB2	1:DW:112:ASP:HB3	2.00	0.43
1:EB:67:VAL:CG1	1:EB:85:GLY:HA3	2.48	0.43
1:EH:2:TYR:HB3	1:EI:100:SER:HB2	1.99	0.43
1:EQ:153:VAL:HG22	1:EQ:164:ILE:HG21	1.99	0.43
1:FA:86:THR:OG1	1:FI:51:LYS:HE3	2.18	0.43
1:FG:19:ILE:HD12	1:FH:17:LEU:HD12	2.00	0.43
1:FH:51:LYS:NZ	1:FL:159:SER:OG	2.50	0.43
1:GH:29:LYS:HD2	1:GH:48:ALA:HB2	1.99	0.43
1:HL:29:LYS:O	1:HL:47:THR:OG1	2.25	0.43
1:HM:85:GLY:HA2	1:HM:125:ASP:H	1.82	0.43
1:HR:153:VAL:HG13	1:HR:164:ILE:HD13	2.00	0.43
1:HT:138:ILE:HG21	1:HU:147:LEU:HD21	1.99	0.43
1:HV:126:PHE:HD2	1:HV:128:LEU:HG	1.80	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HX:68:TYR:CE1	1:HX:79:TYR:HA	2.53	0.43
1:AD:129:VAL:HG12	1:AD:134:ARG:NH2	2.34	0.43
1:AE:86:THR:OG1	1:AM:51:LYS:HE3	2.18	0.43
1:AF:85:GLY:HA2	1:AF:125:ASP:H	1.82	0.43
1:AL:29:LYS:O	1:AL:47:THR:OG1	2.26	0.43
1:AQ:162:THR:HG21	1:AR:40:ASN:OD1	2.18	0.43
1:AU:67:VAL:HG11	1:AU:124:ALA:HA	2.00	0.43
1:AZ:144:GLN:HA	1:BA:23:GLN:HB2	2.00	0.43
1:BI:99:GLN:HB3	1:BI:110:ILE:HG23	1.99	0.43
1:BL:67:VAL:HG11	1:BL:124:ALA:HA	2.00	0.43
1:BL:144:GLN:OE1	1:BM:26:LEU:HD13	2.19	0.43
1:BL:162:THR:HG21	1:BM:40:ASN:OD1	2.18	0.43
1:BM:163:ARG:HB3	1:BM:166:GLY:O	2.18	0.43
1:BN:142:ILE:HD13	1:BO:142:ILE:HG23	2.00	0.43
1:BO:75:ASN:HB3	1:BO:78:PHE:HD2	1.82	0.43
1:BP:166:GLY:O	1:GL:44:TYR:OH	2.36	0.43
1:BQ:26:LEU:HD12	1:BQ:46:ASN:HD22	1.83	0.43
1:BW:144:GLN:HA	1:BX:23:GLN:HB2	1.98	0.43
1:BY:37:GLN:HG3	1:BY:58:THR:HG21	2.00	0.43
1:CG:145:LEU:HD23	1:CG:145:LEU:HA	1.84	0.43
1:CL:67:VAL:CG1	1:CL:85:GLY:HA3	2.48	0.43
1:CV:19:ILE:HD12	1:CW:17:LEU:HD12	2.00	0.43
1:CV:128:LEU:HD22	1:CW:98:THR:HG21	2.00	0.43
1:DB:68:TYR:CE1	1:DB:79:TYR:HA	2.53	0.43
1:DB:144:GLN:OE1	1:DC:26:LEU:HD13	2.19	0.43
1:DF:97:ARG:HB2	1:DF:112:ASP:HB3	2.00	0.43
1:DG:138:ILE:HG21	1:DH:147:LEU:HD21	2.00	0.43
1:DO:138:ILE:O	1:DO:142:ILE:HG13	2.17	0.43
1:DS:23:GLN:HB2	1:DT:144:GLN:HA	1.99	0.43
1:DW:162:THR:HG21	1:DX:40:ASN:OD1	2.18	0.43
1:EJ:37:GLN:HG3	1:EJ:58:THR:HG21	2.00	0.43
1:EL:153:VAL:HG13	1:EL:164:ILE:HD13	2.00	0.43
1:EP:144:GLN:HA	1:EQ:23:GLN:HB2	2.00	0.43
1:ER:68:TYR:CE1	1:ER:79:TYR:HA	2.53	0.43
1:ER:97:ARG:HB2	1:ER:112:ASP:HB3	2.00	0.43
1:FC:67:VAL:CG1	1:FC:85:GLY:HA3	2.47	0.43
1:FJ:99:GLN:HB3	1:FJ:110:ILE:HG23	1.99	0.43
1:FO:102:ASP:HB3	1:FO:105:THR:O	2.18	0.43
1:FW:87:LYS:HE3	1:FW:120:THR:CG2	2.48	0.43
1:FZ:97:ARG:HA	1:FZ:112:ASP:HB3	1.99	0.43
1:GB:157:LEU:HD23	1:GB:157:LEU:HA	1.73	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GJ:102:ASP:HB3	1:GJ:105:THR:O	2.18	0.43
1:GM:98:THR:HG21	1:GN:128:LEU:HD22	2.01	0.43
1:GS:33:MET:HE3	1:GS:45:MET:HB2	1.99	0.43
1:GW:144:GLN:HA	1:GX:23:GLN:HB2	1.99	0.43
1:HH:144:GLN:HA	1:HI:23:GLN:HB2	1.99	0.43
1:HI:26:LEU:O	1:HI:30:ALA:HB2	2.17	0.43
1:HI:145:LEU:HD23	1:HI:145:LEU:HA	1.82	0.43
1:HM:131:ASP:OD2	1:HM:134:ARG:NH1	2.51	0.43
1:HN:2:TYR:HB3	1:HO:100:SER:HB2	1.99	0.43
1:HP:37:GLN:HG3	1:HP:58:THR:HG21	2.00	0.43
1:HT:8:TYR:CE1	1:HU:55:GLU:OE1	2.70	0.43
1:HX:129:VAL:CG2	1:HX:134:ARG:HH22	2.31	0.43
1:AA:67:VAL:CG1	1:AA:85:GLY:HA3	2.48	0.43
1:AI:117:THR:HG22	1:AJ:141:MET:HE3	2.00	0.43
1:AU:137:THR:HA	1:HG:94:ARG:HH11	1.83	0.43
1:AV:98:THR:HG21	1:AW:128:LEU:HD22	2.00	0.43
1:BD:37:GLN:HG3	1:BD:58:THR:HG21	2.00	0.43
1:BJ:85:GLY:HA2	1:BJ:125:ASP:N	2.28	0.43
1:BL:97:ARG:HB2	1:BL:112:ASP:HB3	2.00	0.43
1:BP:142:ILE:HG23	1:GL:142:ILE:HD13	2.00	0.43
1:BQ:33:MET:HE3	1:BQ:45:MET:HB2	1.98	0.43
1:BQ:144:GLN:HA	1:BR:23:GLN:HB2	1.99	0.43
1:BW:67:VAL:CG1	1:BW:85:GLY:HA3	2.47	0.43
1:CD:102:ASP:HB3	1:CD:105:THR:O	2.18	0.43
1:CQ:145:LEU:HD23	1:CQ:145:LEU:HA	1.73	0.43
1:CW:157:LEU:HD23	1:CW:157:LEU:HA	1.81	0.43
1:CX:67:VAL:HG22	1:CX:83:SER:O	2.18	0.43
1:CZ:126:PHE:HD2	1:CZ:128:LEU:HG	1.80	0.43
1:DF:55:GLU:OE1	1:EV:8:TYR:CE1	2.70	0.43
1:DG:67:VAL:CG1	1:DG:85:GLY:HA3	2.48	0.43
1:DK:126:PHE:HD2	1:DK:128:LEU:HG	1.83	0.43
1:DN:153:VAL:HG13	1:DN:164:ILE:HD13	2.00	0.43
1:DQ:59:PHE:CD1	1:DQ:90:ILE:HG12	2.53	0.43
1:DW:53:GLN:NE2	1:DW:95:ILE:O	2.50	0.43
1:DW:68:TYR:CE1	1:DW:79:TYR:HA	2.53	0.43
1:DW:144:GLN:OE1	1:DX:26:LEU:HD13	2.19	0.43
1:EB:7:GLY:O	1:EC:50:PRO:HD3	2.17	0.43
1:EB:98:THR:HG21	1:EC:128:LEU:HD22	2.01	0.43
1:EE:164:ILE:HG21	1:EE:164:ILE:HD13	1.60	0.43
1:EL:145:LEU:HD23	1:EL:145:LEU:HA	1.79	0.43
1:EN:75:ASN:CB	1:HH:82:SER:HB3	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EP:23:GLN:HB2	1:EQ:144:GLN:HA	1.98	0.43
1:EW:67:VAL:CG1	1:EW:85:GLY:HA3	2.48	0.43
1:EW:135:LYS:O	1:EW:139:GLU:HG3	2.18	0.43
1:FJ:37:GLN:HG3	1:FJ:58:THR:HG21	2.00	0.43
1:FK:8:TYR:CE1	1:FL:55:GLU:OE1	2.69	0.43
1:FO:157:LEU:HG	1:FO:164:ILE:HD11	1.99	0.43
1:FP:51:LYS:HE2	1:FQ:86:THR:HG21	2.00	0.43
1:FR:67:VAL:CG1	1:FR:85:GLY:HA3	2.48	0.43
1:FV:126:PHE:CD2	1:FV:128:LEU:HG	2.54	0.43
1:GB:137:THR:HA	1:GC:94:ARG:HH11	1.82	0.43
1:GE:102:ASP:HB3	1:GE:105:THR:O	2.18	0.43
1:GH:53:GLN:NE2	1:GH:95:ILE:O	2.50	0.43
1:GJ:23:GLN:HB2	1:GK:144:GLN:HA	1.99	0.43
1:GJ:142:ILE:HD13	1:GK:142:ILE:HG23	2.00	0.43
1:GM:26:LEU:HD12	1:GM:46:ASN:HD22	1.83	0.43
1:GQ:33:MET:HE3	1:GQ:45:MET:HB2	1.99	0.43
1:GR:87:LYS:HE3	1:GR:120:THR:CG2	2.49	0.43
1:GS:157:LEU:HD23	1:GS:157:LEU:HA	1.74	0.43
1:GZ:102:ASP:HB3	1:GZ:105:THR:O	2.18	0.43
1:HC:144:GLN:OE1	1:HD:26:LEU:HD13	2.19	0.43
1:HE:8:TYR:CE1	1:HF:55:GLU:OE1	2.70	0.43
1:HF:85:GLY:HA2	1:HF:125:ASP:N	2.28	0.43
1:HT:67:VAL:HG22	1:HT:83:SER:O	2.18	0.43
1:HU:102:ASP:HB3	1:HU:105:THR:O	2.18	0.43
1:AA:104:ASN:O	1:AV:103:VAL:HG23	2.19	0.43
1:AM:8:TYR:CE1	1:AN:55:GLU:OE1	2.70	0.43
1:AM:67:VAL:HG22	1:AM:83:SER:O	2.18	0.43
1:AT:51:LYS:HE2	1:AU:86:THR:HG21	2.00	0.43
1:BA:87:LYS:HE3	1:BA:120:THR:CG2	2.48	0.43
1:BA:131:ASP:OD2	1:BA:134:ARG:NH1	2.51	0.43
1:BH:138:ILE:HG21	1:BI:147:LEU:HD21	1.99	0.43
1:BK:153:VAL:HG22	1:BK:164:ILE:HG21	1.99	0.43
1:BO:145:LEU:HD23	1:BO:145:LEU:HA	1.71	0.43
1:BU:157:LEU:HG	1:BU:164:ILE:HD11	1.99	0.43
1:BX:153:VAL:HG13	1:BX:164:ILE:HD13	2.00	0.43
1:CA:157:LEU:HD23	1:CA:157:LEU:HA	1.73	0.43
1:CC:67:VAL:HG22	1:CC:83:SER:O	2.18	0.43
1:CI:144:GLN:HA	1:CJ:23:GLN:HB2	1.99	0.43
1:CL:26:LEU:HD12	1:CL:46:ASN:HD22	1.83	0.43
1:CP:126:PHE:CD2	1:CP:128:LEU:HG	2.54	0.43
1:CT:37:GLN:HG3	1:CT:58:THR:HG21	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DB:53:GLN:NE2	1:DB:95:ILE:O	2.50	0.43
1:DG:102:ASP:OD1	1:DG:104:ASN:N	2.51	0.43
1:DH:51:LYS:NZ	1:DT:131:ASP:OD1	2.50	0.43
1:DQ:153:VAL:HG13	1:DQ:164:ILE:HD13	2.00	0.43
1:DR:157:LEU:HD23	1:DR:157:LEU:HA	1.81	0.43
1:DV:75:ASN:HB3	1:DV:78:PHE:HD2	1.82	0.43
1:DY:134:ARG:O	1:DY:137:THR:HG22	2.19	0.43
1:EB:145:LEU:HA	1:EB:145:LEU:HD23	1.81	0.43
1:EN:22:TYR:HD2	1:EO:140:TRP:HA	1.81	0.43
1:EP:85:GLY:HA2	1:EP:125:ASP:N	2.28	0.43
1:FA:126:PHE:CD2	1:FA:128:LEU:HG	2.54	0.43
1:FE:145:LEU:HD23	1:FE:145:LEU:HA	1.79	0.43
1:FM:75:ASN:ND2	1:FM:77:THR:HB	2.33	0.43
1:GB:19:ILE:HD12	1:GC:17:LEU:HD12	2.00	0.43
1:GB:144:GLN:HA	1:GC:23:GLN:HB2	1.99	0.43
1:GJ:8:TYR:CE1	1:GK:55:GLU:OE1	2.70	0.43
1:GP:129:VAL:HG12	1:GP:134:ARG:NH2	2.34	0.43
1:GQ:37:GLN:HG3	1:GQ:58:THR:HG21	1.99	0.43
1:GW:128:LEU:HD22	1:GX:98:THR:HG21	2.00	0.43
1:HA:2:TYR:HB3	1:HB:100:SER:HB3	2.00	0.43
1:HC:67:VAL:HG11	1:HC:124:ALA:HA	2.00	0.43
1:HH:98:THR:HG21	1:HI:128:LEU:HD22	2.00	0.43
1:HX:97:ARG:HB2	1:HX:112:ASP:HB3	2.00	0.43
1:HY:163:ARG:HB3	1:HY:166:GLY:O	2.18	0.43
1:HZ:134:ARG:O	1:HZ:137:THR:HG22	2.19	0.43
1:AK:19:ILE:HD12	1:AL:17:LEU:HD12	2.00	0.43
1:AS:142:ILE:HD13	1:AT:142:ILE:HG23	2.00	0.43
1:AU:15:ASP:CG	1:HG:21:GLN:HG3	2.39	0.43
1:AU:97:ARG:HB2	1:AU:112:ASP:HB3	2.00	0.43
1:AZ:126:PHE:CD2	1:AZ:128:LEU:HG	2.54	0.43
1:BE:72:ASN:O	1:BE:72:ASN:ND2	2.40	0.43
1:BF:157:LEU:HD23	1:BF:157:LEU:HA	1.73	0.43
1:BM:126:PHE:CE2	1:BM:128:LEU:HG	2.54	0.43
1:BP:67:VAL:HG11	1:BP:124:ALA:HA	2.00	0.43
1:BT:129:VAL:HG12	1:BT:134:ARG:NH2	2.34	0.43
1:BV:131:ASP:OD2	1:BV:134:ARG:NH1	2.51	0.43
1:BW:33:MET:HE1	1:BW:45:MET:HB2	2.00	0.43
1:CA:4:GLN:HA	1:CB:97:ARG:O	2.19	0.43
1:CB:51:LYS:NZ	1:CF:159:SER:OG	2.50	0.43
1:CG:144:GLN:OE1	1:CH:26:LEU:HD13	2.19	0.43
1:CK:71:SER:HA	1:FQ:93:LYS:HD2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CP:145:LEU:HA	1:CP:145:LEU:HD23	1.71	0.43
1:CR:4:GLN:HB3	1:CS:98:THR:HA	2.01	0.43
1:CV:137:THR:HA	1:CW:94:ARG:HH11	1.82	0.43
1:CY:68:TYR:CE1	1:CY:79:TYR:HA	2.54	0.43
1:DK:37:GLN:HG3	1:DK:58:THR:HG21	1.99	0.43
1:DY:23:GLN:HB2	1:DZ:144:GLN:HA	1.99	0.43
1:EB:102:ASP:OD1	1:EB:104:ASN:N	2.51	0.43
1:EC:1:SER:N	1:HH:106:GLY:HA3	2.33	0.43
1:EH:4:GLN:HB3	1:EI:98:THR:HA	2.01	0.43
1:EL:19:ILE:HD12	1:EM:17:LEU:HD12	2.00	0.43
1:EM:140:TRP:O	1:EM:144:GLN:HG2	2.17	0.43
1:EN:148:LEU:HD23	1:EN:148:LEU:HA	1.85	0.43
1:ER:59:PHE:HD1	1:ER:90:ILE:HG12	1.84	0.43
1:EV:67:VAL:HG11	1:EV:124:ALA:HA	2.00	0.43
1:EW:145:LEU:HD23	1:EW:145:LEU:HA	1.81	0.43
1:FG:128:LEU:HD22	1:FH:98:THR:HG21	2.00	0.43
1:FM:162:THR:HG21	1:FN:40:ASN:OD1	2.18	0.43
1:FN:145:LEU:HD23	1:FN:145:LEU:HA	1.85	0.43
1:FQ:67:VAL:HG11	1:FQ:124:ALA:HA	2.00	0.43
1:FX:138:ILE:O	1:FX:142:ILE:HG13	2.18	0.43
1:GH:144:GLN:OE1	1:GI:26:LEU:HD13	2.19	0.43
1:GK:51:LYS:HE2	1:GL:86:THR:HG21	2.00	0.43
1:GQ:144:GLN:HA	1:GR:23:GLN:HB2	2.00	0.43
1:GR:131:ASP:OD2	1:GR:134:ARG:NH1	2.51	0.43
1:GT:153:VAL:HG13	1:GT:164:ILE:HD13	2.00	0.43
1:GY:23:GLN:HB2	1:GZ:144:GLN:HA	1.99	0.43
1:HC:59:PHE:HD1	1:HC:90:ILE:HG12	1.84	0.43
1:HH:26:LEU:HD12	1:HH:46:ASN:HD22	1.84	0.43
1:HN:4:GLN:HB3	1:HO:98:THR:HA	2.01	0.43
1:HN:102:ASP:OD1	1:HN:104:ASN:N	2.49	0.43
1:HP:97:ARG:HA	1:HP:112:ASP:HB3	1.99	0.43
1:HQ:87:LYS:HE3	1:HQ:120:THR:CG2	2.49	0.43
1:HR:102:ASP:OD1	1:HR:104:ASN:N	2.51	0.43
1:HU:37:GLN:HG3	1:HU:58:THR:HG21	2.00	0.43
1:AA:101:THR:HG22	1:AA:108:PRO:HB3	2.01	0.43
1:AK:128:LEU:HD22	1:AL:98:THR:HG21	2.00	0.43
1:AO:85:GLY:HA2	1:AO:125:ASP:N	2.28	0.43
1:AS:23:GLN:HB2	1:AT:144:GLN:HA	1.99	0.43
1:AT:157:LEU:HD23	1:AT:157:LEU:HA	1.89	0.43
1:AX:144:GLN:HA	1:AY:23:GLN:HB2	1.99	0.43
1:BF:4:GLN:HA	1:BG:97:ARG:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:59:PHE:CD1	1:BF:90:ILE:HG12	2.53	0.43
1:BN:134:ARG:O	1:BN:137:THR:HG22	2.19	0.43
1:CB:140:TRP:O	1:CB:144:GLN:HG2	2.17	0.43
1:CE:2:TYR:HB3	1:CF:100:SER:HB3	2.00	0.43
1:CK:67:VAL:HG11	1:CK:124:ALA:HA	2.00	0.43
1:CS:153:VAL:HG13	1:CS:164:ILE:HD13	2.00	0.43
1:CU:29:LYS:O	1:CU:47:THR:OG1	2.28	0.43
1:DJ:29:LYS:HB3	1:DJ:47:THR:OG1	2.19	0.43
1:DK:144:GLN:HA	1:DL:23:GLN:HB2	2.00	0.43
1:DL:145:LEU:HD23	1:DL:145:LEU:HA	1.73	0.43
1:DO:72:ASN:O	1:DO:72:ASN:ND2	2.43	0.43
1:DW:129:VAL:CG2	1:DW:134:ARG:HH22	2.31	0.43
1:ED:142:ILE:HD13	1:EE:142:ILE:CG2	2.48	0.43
1:EH:2:TYR:CB	1:EI:100:SER:HB2	2.49	0.43
1:EN:67:VAL:HG22	1:EN:83:SER:O	2.18	0.43
1:EP:126:PHE:HD2	1:EP:128:LEU:HG	1.80	0.43
1:EZ:145:LEU:HA	1:EZ:145:LEU:HD23	1.78	0.43
1:FA:157:LEU:HA	1:FA:157:LEU:HD23	1.80	0.43
1:FC:2:TYR:HB3	1:FD:100:SER:HB2	1.99	0.43
1:FI:140:TRP:NE1	1:FJ:55:GLU:OE2	2.52	0.43
1:FR:26:LEU:HD12	1:FR:46:ASN:HD22	1.84	0.43
1:FR:135:LYS:O	1:FR:139:GLU:HG3	2.18	0.43
1:FX:44:TYR:OH	1:FY:166:GLY:O	2.31	0.43
1:GH:97:ARG:HB2	1:GH:112:ASP:HB3	2.00	0.43
1:GM:67:VAL:CG1	1:GM:85:GLY:HA3	2.48	0.43
1:GM:135:LYS:O	1:GM:139:GLU:HG3	2.18	0.43
1:GS:114:PRO:HG2	1:GT:67:VAL:CG1	2.45	0.43
1:GZ:85:GLY:HA2	1:GZ:125:ASP:HB2	2.01	0.43
1:HC:129:VAL:CG2	1:HC:134:ARG:HH22	2.31	0.43
1:HJ:111:VAL:HG12	1:HK:78:PHE:HB3	2.01	0.43
1:HK:129:VAL:HG12	1:HK:134:ARG:NH2	2.34	0.43
1:HR:137:THR:HG21	1:HS:115:LEU:HD23	1.98	0.43
1:HU:68:TYR:CE1	1:HU:79:TYR:HA	2.54	0.43
1:HX:85:GLY:HA2	1:HX:125:ASP:N	2.27	0.43
1:HY:126:PHE:CE2	1:HY:128:LEU:HG	2.54	0.43
1:AC:111:VAL:HG12	1:AD:78:PHE:HB3	2.01	0.43
1:AE:126:PHE:CD2	1:AE:128:LEU:HG	2.54	0.43
1:AF:87:LYS:HE3	1:AF:120:THR:CG2	2.49	0.43
1:AK:136:SER:HG	1:AL:22:TYR:HH	1.60	0.43
1:AL:72:ASN:O	1:AL:72:ASN:ND2	2.45	0.43
1:AN:102:ASP:HB3	1:AN:105:THR:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:55:GLU:OE1	1:AP:8:TYR:CE1	2.68	0.43
1:AQ:59:PHE:HD1	1:AQ:90:ILE:HG12	1.84	0.43
1:AS:144:GLN:HA	1:AT:23:GLN:HB2	1.99	0.43
1:AT:75:ASN:ND2	1:FZ:81:SER:CB	2.80	0.43
1:AV:67:VAL:CG1	1:AV:85:GLY:HA3	2.48	0.43
1:AV:74:GLN:OE1	1:BI:63:LYS:NZ	2.49	0.43
1:AZ:86:THR:OG1	1:BH:51:LYS:HE3	2.18	0.43
1:BE:87:LYS:HE3	1:BE:120:THR:CG2	2.49	0.43
1:BH:67:VAL:HG22	1:BH:83:SER:O	2.18	0.43
1:BQ:67:VAL:CG1	1:BQ:85:GLY:HA3	2.48	0.43
1:BU:126:PHE:HD2	1:BU:128:LEU:HG	1.83	0.43
1:BW:29:LYS:O	1:BW:47:THR:OG1	2.20	0.43
1:BX:107:LEU:HD12	1:EU:111:VAL:HG21	2.01	0.43
1:CE:138:ILE:HG21	1:CF:147:LEU:HD21	2.01	0.43
1:CP:112:ASP:O	1:CQ:76:GLN:NE2	2.29	0.43
1:CT:145:LEU:HA	1:CT:145:LEU:HD23	1.79	0.43
1:CV:102:ASP:OD1	1:CV:104:ASN:N	2.51	0.43
1:CZ:144:GLN:HA	1:DA:23:GLN:HB2	2.00	0.43
1:DD:75:ASN:CG	1:DF:82:SER:HB3	2.39	0.43
1:DD:102:ASP:HB3	1:DD:105:THR:O	2.18	0.43
1:DG:98:THR:HG21	1:DH:128:LEU:HD22	2.00	0.43
1:DG:135:LYS:O	1:DG:139:GLU:HG3	2.18	0.43
1:DT:67:VAL:HG11	1:DT:124:ALA:HA	2.01	0.43
1:DW:59:PHE:HD1	1:DW:90:ILE:HG12	1.84	0.43
1:EL:59:PHE:CD1	1:EL:90:ILE:HG12	2.53	0.43
1:ER:129:VAL:CG2	1:ER:134:ARG:HH22	2.31	0.43
1:EZ:129:VAL:HG12	1:EZ:134:ARG:NH2	2.34	0.43
1:FB:145:LEU:HD23	1:FB:145:LEU:HA	1.73	0.43
1:FG:4:GLN:HA	1:FH:97:ARG:O	2.19	0.43
1:FI:8:TYR:CE1	1:FJ:55:GLU:OE1	2.70	0.43
1:FJ:68:TYR:CE1	1:FJ:79:TYR:HA	2.54	0.43
1:FJ:102:ASP:HB3	1:FJ:105:THR:O	2.18	0.43
1:FK:138:ILE:HG21	1:FL:147:LEU:HD21	2.01	0.43
1:FM:129:VAL:CG2	1:FM:134:ARG:HH22	2.31	0.43
1:FY:153:VAL:HG13	1:FY:164:ILE:HD13	2.00	0.43
1:GF:17:LEU:HD12	1:GG:19:ILE:HD12	2.01	0.43
1:GJ:134:ARG:O	1:GJ:137:THR:HG22	2.18	0.43
1:GJ:144:GLN:HA	1:GK:23:GLN:HB2	1.99	0.43
1:GO:157:LEU:HD23	1:GO:157:LEU:HA	1.76	0.43
1:GW:19:ILE:HD12	1:GX:17:LEU:HD12	2.00	0.43
1:HE:134:ARG:O	1:HE:137:THR:HG22	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HL:126:PHE:CD2	1:HL:128:LEU:HG	2.54	0.43
1:HN:2:TYR:CB	1:HO:100:SER:HB2	2.49	0.43
1:HR:59:PHE:CD1	1:HR:90:ILE:HG12	2.53	0.43
1:HR:157:LEU:HA	1:HR:157:LEU:HD23	1.73	0.43
1:HT:67:VAL:HG11	1:HT:124:ALA:HA	2.01	0.43
1:HV:144:GLN:HA	1:HW:23:GLN:HB2	2.00	0.43
1:AD:29:LYS:HB3	1:AD:47:THR:OG1	2.19	0.43
1:AJ:87:LYS:HE3	1:AJ:120:THR:CG2	2.49	0.43
1:AM:138:ILE:HG21	1:AN:147:LEU:HD21	1.99	0.43
1:AS:75:ASN:CG	1:AU:82:SER:HB3	2.39	0.43
1:AS:157:LEU:HD23	1:AS:157:LEU:HA	1.83	0.43
1:AU:113:CYS:HB2	1:HG:124:ALA:HB3	2.01	0.43
1:BA:145:LEU:HD23	1:BA:145:LEU:HA	1.73	0.43
1:BB:4:GLN:HB3	1:BC:98:THR:HA	2.01	0.43
1:BD:97:ARG:HA	1:BD:112:ASP:HB3	1.99	0.43
1:BF:128:LEU:HD22	1:BG:98:THR:HG21	2.00	0.43
1:BG:124:ALA:O	1:BG:129:VAL:HG21	2.17	0.43
1:BH:67:VAL:HG11	1:BH:124:ALA:HA	2.01	0.43
1:BI:68:TYR:CE1	1:BI:79:TYR:HA	2.54	0.43
1:BP:26:LEU:HD23	1:BP:30:ALA:HB2	2.01	0.43
1:CC:148:LEU:HD23	1:CC:148:LEU:HA	1.85	0.43
1:CD:99:GLN:HB3	1:CD:110:ILE:HG23	1.99	0.43
1:CE:144:GLN:HA	1:CF:23:GLN:HB2	2.01	0.43
1:CL:135:LYS:O	1:CL:139:GLU:HG3	2.18	0.43
1:CR:2:TYR:CB	1:CS:100:SER:HB2	2.49	0.43
1:DD:134:ARG:O	1:DD:137:THR:HG22	2.18	0.43
1:DM:2:TYR:CB	1:DN:100:SER:HB2	2.49	0.43
1:DM:120:THR:HB	1:DN:118:SER:HB2	2.00	0.43
1:DM:138:ILE:O	1:DM:142:ILE:HG13	2.18	0.43
1:DX:126:PHE:CE2	1:DX:128:LEU:HG	2.54	0.43
1:DY:85:GLY:HA2	1:DY:125:ASP:HB2	2.00	0.43
1:EA:97:ARG:HB2	1:EA:112:ASP:HB3	2.00	0.43
1:EB:26:LEU:HD12	1:EB:46:ASN:HD22	1.84	0.43
1:ED:144:GLN:HA	1:EE:23:GLN:HB2	1.99	0.43
1:EJ:124:ALA:HB3	1:EK:113:CYS:HB3	1.99	0.43
1:EO:68:TYR:CE1	1:EO:79:TYR:HA	2.54	0.43
1:EP:2:TYR:HB3	1:EQ:100:SER:HB3	2.00	0.43
1:ES:126:PHE:CE2	1:ES:128:LEU:HG	2.54	0.43
1:ET:75:ASN:CG	1:EV:82:SER:HB3	2.39	0.43
1:EW:114:PRO:HG2	1:EX:67:VAL:CG1	2.44	0.43
1:EX:51:LYS:NZ	1:FJ:131:ASP:OD1	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FC:2:TYR:CB	1:FD:100:SER:HB2	2.49	0.43
1:FF:87:LYS:HE3	1:FF:120:THR:CG2	2.49	0.43
1:FJ:85:GLY:HA2	1:FJ:125:ASP:N	2.27	0.43
1:FK:2:TYR:HB3	1:FL:100:SER:HB3	2.00	0.43
1:FM:53:GLN:NE2	1:FM:95:ILE:O	2.50	0.43
1:FM:55:GLU:OE1	1:FN:8:TYR:CE1	2.72	0.43
1:FO:75:ASN:CG	1:FQ:82:SER:HB3	2.39	0.43
1:FO:75:ASN:HB2	1:FQ:82:SER:HB3	1.99	0.43
1:FO:134:ARG:O	1:FO:137:THR:HG22	2.18	0.43
1:FR:98:THR:HG21	1:FS:128:LEU:HD22	2.00	0.43
1:GC:72:ASN:O	1:GC:72:ASN:ND2	2.45	0.43
1:GI:126:PHE:CE2	1:GI:128:LEU:HG	2.54	0.43
1:GL:97:ARG:HB2	1:GL:112:ASP:HB3	2.00	0.43
1:GZ:68:TYR:CE1	1:GZ:79:TYR:HA	2.54	0.43
1:HH:67:VAL:CG1	1:HH:85:GLY:HA3	2.48	0.43
1:HO:157:LEU:HA	1:HO:157:LEU:HD23	1.82	0.43
1:HZ:144:GLN:HA	1:IA:23:GLN:HB2	1.99	0.43
1:AK:153:VAL:HG13	1:AK:164:ILE:HD13	2.00	0.43
1:AS:134:ARG:O	1:AS:137:THR:HG22	2.18	0.43
1:AV:144:GLN:HA	1:AW:23:GLN:HB2	1.99	0.43
1:AY:129:VAL:HG12	1:AY:134:ARG:NH2	2.34	0.43
1:BL:59:PHE:HD1	1:BL:90:ILE:HG12	1.84	0.43
1:BP:8:TYR:HE1	1:GL:55:GLU:OE1	2.02	0.43
1:CD:85:GLY:HA2	1:CD:125:ASP:HB2	2.01	0.43
1:CK:26:LEU:HD23	1:CK:30:ALA:HB2	2.01	0.43
1:CP:162:THR:CB	1:CR:34:ASP:HB3	2.40	0.43
1:CR:86:THR:HG21	1:DV:51:LYS:HE2	2.01	0.43
1:CU:87:LYS:HE3	1:CU:120:THR:CG2	2.49	0.43
1:CX:140:TRP:NE1	1:CY:55:GLU:OE2	2.52	0.43
1:CZ:99:GLN:CB	1:CZ:110:ILE:HG12	2.46	0.43
1:CZ:138:ILE:HG21	1:DA:147:LEU:HD21	2.01	0.43
1:DA:75:ASN:HB3	1:DA:78:PHE:HD2	1.82	0.43
1:DB:67:VAL:HG11	1:DB:124:ALA:HA	2.00	0.43
1:DE:105:THR:HG21	1:EV:109:VAL:HG21	2.00	0.43
1:DU:144:GLN:HA	1:DV:23:GLN:HB2	2.00	0.43
1:DX:163:ARG:HB3	1:DX:166:GLY:O	2.18	0.43
1:EF:126:PHE:HD2	1:EF:128:LEU:HG	1.83	0.43
1:EP:17:LEU:HD12	1:EQ:19:ILE:HD12	2.01	0.43
1:EW:26:LEU:HD12	1:EW:46:ASN:HD22	1.84	0.43
1:FC:114:PRO:HG2	1:FD:67:VAL:CG1	2.45	0.43
1:FH:1:SER:O	1:FH:1:SER:OG	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FO:126:PHE:HD2	1:FO:128:LEU:HG	1.84	0.43
1:FR:157:LEU:HD23	1:FR:157:LEU:HA	1.82	0.43
1:FT:111:VAL:HG12	1:FU:78:PHE:HB3	2.01	0.43
1:FV:126:PHE:HD2	1:FV:128:LEU:HG	1.83	0.43
1:GD:8:TYR:CE1	1:GE:55:GLU:OE1	2.70	0.43
1:GE:85:GLY:HA2	1:GE:125:ASP:HB2	2.01	0.43
1:GJ:163:ARG:HB3	1:GJ:166:GLY:OXT	2.19	0.43
1:GK:85:GLY:HA2	1:GK:125:ASP:N	2.28	0.43
1:GS:120:THR:HB	1:GT:118:SER:HB2	2.00	0.43
1:GY:67:VAL:HG22	1:GY:83:SER:O	2.18	0.43
1:HA:138:ILE:HG21	1:HB:147:LEU:HD21	2.01	0.43
1:HC:162:THR:HG21	1:HD:40:ASN:OD1	2.18	0.43
1:HE:75:ASN:CG	1:HG:82:SER:HB3	2.39	0.43
1:HE:144:GLN:HA	1:HF:23:GLN:HB2	1.99	0.43
1:HI:141:MET:HB2	1:HI:141:MET:HE2	1.96	0.43
1:HI:153:VAL:HG13	1:HI:164:ILE:CD1	2.46	0.43
1:HR:4:GLN:HA	1:HS:97:ARG:O	2.19	0.43
1:HV:2:TYR:HB3	1:HW:100:SER:HB3	2.00	0.43
1:HW:85:GLY:HA2	1:HW:125:ASP:N	2.29	0.43
1:AD:145:LEU:HD23	1:AD:145:LEU:HA	1.78	0.43
1:AI:97:ARG:HA	1:AI:112:ASP:HB3	1.99	0.43
1:AL:1:SER:O	1:AL:1:SER:OG	2.33	0.43
1:AN:68:TYR:CE1	1:AN:79:TYR:HA	2.54	0.43
1:AO:17:LEU:HD12	1:AP:19:ILE:HD12	2.01	0.43
1:AQ:67:VAL:HG11	1:AQ:124:ALA:HA	2.00	0.43
1:AQ:75:ASN:ND2	1:AQ:77:THR:HB	2.33	0.43
1:AR:163:ARG:HB3	1:AR:166:GLY:O	2.18	0.43
1:AS:102:ASP:HB3	1:AS:105:THR:O	2.18	0.43
1:AS:145:LEU:HD23	1:AS:145:LEU:HA	1.79	0.43
1:AV:138:ILE:HG21	1:AW:147:LEU:HD21	2.00	0.43
1:BB:2:TYR:CB	1:BC:100:SER:HB2	2.49	0.43
1:BB:145:LEU:HA	1:BB:145:LEU:HD23	1.76	0.43
1:CC:140:TRP:NE1	1:CD:55:GLU:OE2	2.52	0.43
1:CF:75:ASN:HB3	1:CF:78:PHE:HD2	1.82	0.43
1:CM:157:LEU:HA	1:CM:157:LEU:HD23	1.81	0.43
1:CR:4:GLN:HA	1:CS:97:ARG:O	2.19	0.43
1:CV:153:VAL:HG13	1:CV:164:ILE:HD13	2.00	0.43
1:CY:67:VAL:HG11	1:CY:124:ALA:HA	2.01	0.43
1:DC:163:ARG:HB3	1:DC:166:GLY:O	2.18	0.43
1:DJ:129:VAL:HG12	1:DJ:134:ARG:NH2	2.34	0.43
1:DM:102:ASP:OD1	1:DM:104:ASN:N	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DS:140:TRP:NE1	1:DT:55:GLU:OE2	2.52	0.43
1:DT:85:GLY:HA2	1:DT:125:ASP:HB2	2.01	0.43
1:DY:163:ARG:HB3	1:DY:166:GLY:OXT	2.19	0.43
1:EC:75:ASN:ND2	1:EX:84:LYS:H	2.13	0.43
1:EC:82:SER:HB2	1:HI:75:ASN:CB	2.49	0.43
1:EE:129:VAL:HG12	1:EE:134:ARG:NH2	2.34	0.43
1:EG:108:PRO:HD2	1:FL:128:LEU:HD21	2.01	0.43
1:EL:4:GLN:HA	1:EM:97:ARG:O	2.19	0.43
1:EL:166:GLY:O	1:EM:44:TYR:OH	2.36	0.43
1:EM:153:VAL:HG13	1:EM:164:ILE:CD1	2.49	0.43
1:EW:8:TYR:CE1	1:EX:55:GLU:OE1	2.69	0.43
1:FC:4:GLN:HA	1:FD:97:ARG:O	2.19	0.43
1:FI:67:VAL:HG11	1:FI:124:ALA:HA	2.01	0.43
1:FN:163:ARG:HB3	1:FN:166:GLY:O	2.18	0.43
1:FR:101:THR:HG22	1:FR:108:PRO:HB3	2.01	0.43
1:FS:153:VAL:HG13	1:FS:164:ILE:CD1	2.46	0.43
1:FV:144:GLN:HA	1:FW:23:GLN:HB2	2.00	0.43
1:FV:157:LEU:HD23	1:FV:157:LEU:HA	1.80	0.43
1:FX:4:GLN:HA	1:FY:97:ARG:O	2.19	0.43
1:FX:120:THR:HB	1:FY:118:SER:HB2	2.00	0.43
1:FZ:37:GLN:HG3	1:FZ:58:THR:HG21	2.00	0.43
1:GD:67:VAL:HG11	1:GD:124:ALA:HA	2.01	0.43
1:GE:68:TYR:CE1	1:GE:79:TYR:HA	2.54	0.43
1:GH:67:VAL:HG11	1:GH:124:ALA:HA	2.00	0.43
1:GH:129:VAL:CG2	1:GH:134:ARG:HH22	2.31	0.43
1:GO:111:VAL:HG12	1:GP:78:PHE:HB3	2.01	0.43
1:GS:2:TYR:CB	1:GT:100:SER:HB2	2.49	0.43
1:GV:87:LYS:HE3	1:GV:120:THR:CG2	2.49	0.43
1:GY:140:TRP:NE1	1:GZ:55:GLU:OE2	2.52	0.43
1:GZ:67:VAL:HG11	1:GZ:124:ALA:HA	2.01	0.43
1:HB:75:ASN:HB3	1:HB:78:PHE:HD2	1.82	0.43
1:HL:120:THR:HB	1:HM:118:SER:HB2	2.01	0.43
1:HZ:75:ASN:CG	1:IB:82:SER:HB3	2.39	0.43
1:AA:26:LEU:HD12	1:AA:46:ASN:HD22	1.84	0.42
1:AD:157:LEU:HA	1:AD:157:LEU:HD23	1.86	0.42
1:AJ:29:LYS:O	1:AJ:47:THR:OG1	2.28	0.42
1:AK:4:GLN:HA	1:AL:97:ARG:O	2.19	0.42
1:AO:78:PHE:HE1	1:AP:110:ILE:HB	1.84	0.42
1:BJ:17:LEU:HD12	1:BK:19:ILE:HD12	2.01	0.42
1:BN:53:GLN:OE1	1:BN:97:ARG:HD2	2.19	0.42
1:BR:112:ASP:OD2	1:BR:112:ASP:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CI:53:GLN:OE1	1:CI:97:ARG:HD2	2.19	0.42
1:CI:163:ARG:HB3	1:CI:166:GLY:OXT	2.19	0.42
1:CW:29:LYS:O	1:CW:47:THR:OG1	2.26	0.42
1:CY:85:GLY:HA2	1:CY:125:ASP:HB2	2.01	0.42
1:DD:53:GLN:CD	1:DD:97:ARG:HD2	2.40	0.42
1:DF:67:VAL:HG11	1:DF:124:ALA:HA	2.00	0.42
1:DL:131:ASP:OD2	1:DL:134:ARG:NH1	2.51	0.42
1:EA:141:MET:HE2	1:EA:141:MET:HB2	1.84	0.42
1:EB:106:GLY:HA3	1:EX:1:SER:N	2.34	0.42
1:ED:26:LEU:O	1:ED:30:ALA:HB2	2.19	0.42
1:EM:157:LEU:HD23	1:EM:157:LEU:HA	1.81	0.42
1:EO:37:GLN:HG3	1:EO:58:THR:HG21	2.00	0.42
1:EO:85:GLY:HA2	1:EO:125:ASP:HB2	2.01	0.42
1:EQ:75:ASN:HB3	1:EQ:78:PHE:HD2	1.82	0.42
1:ER:67:VAL:HG11	1:ER:124:ALA:HA	2.00	0.42
1:EV:85:GLY:HA2	1:EV:125:ASP:N	2.29	0.42
1:FB:87:LYS:HE3	1:FB:120:THR:CG2	2.48	0.42
1:FE:37:GLN:HG3	1:FE:58:THR:HG21	2.00	0.42
1:FG:153:VAL:HG13	1:FG:164:ILE:HD13	2.00	0.42
1:FO:157:LEU:HD23	1:FO:157:LEU:HA	1.83	0.42
1:FR:138:ILE:HG21	1:FS:147:LEU:HD21	2.00	0.42
1:FU:29:LYS:HB3	1:FU:47:THR:OG1	2.19	0.42
1:GF:144:GLN:HA	1:GG:23:GLN:HB2	2.00	0.42
1:GJ:53:GLN:CD	1:GJ:97:ARG:HD2	2.40	0.42
1:GM:102:ASP:OD1	1:GM:104:ASN:N	2.51	0.42
1:GP:29:LYS:HB3	1:GP:47:THR:OG1	2.19	0.42
1:GU:37:GLN:HG3	1:GU:58:THR:HG21	2.00	0.42
1:GW:59:PHE:CD1	1:GW:90:ILE:HG12	2.53	0.42
1:HC:55:GLU:OE1	1:HD:8:TYR:CE1	2.72	0.42
1:HH:138:ILE:HG21	1:HI:147:LEU:HD21	2.00	0.42
1:HJ:26:LEU:O	1:HJ:30:ALA:HB2	2.19	0.42
1:HJ:145:LEU:HA	1:HJ:145:LEU:HD23	1.79	0.42
1:HR:128:LEU:HD22	1:HS:98:THR:HG21	2.00	0.42
1:HV:78:PHE:HE1	1:HW:110:ILE:HB	1.84	0.42
1:HZ:142:ILE:HD13	1:IA:142:ILE:HG23	2.00	0.42
1:IB:26:LEU:HD23	1:IB:30:ALA:HB2	2.01	0.42
1:AG:4:GLN:HB3	1:AH:98:THR:HA	2.01	0.42
1:AN:85:GLY:HA2	1:AN:125:ASP:HB2	2.01	0.42
1:AQ:55:GLU:OE1	1:AR:8:TYR:CE1	2.72	0.42
1:AQ:68:TYR:CE1	1:AQ:79:TYR:HA	2.53	0.42
1:AU:26:LEU:HD23	1:AU:30:ALA:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AV:102:ASP:OD1	1:AV:104:ASN:N	2.51	0.42
1:AZ:162:THR:CB	1:BB:34:ASP:HB3	2.40	0.42
1:BC:87:LYS:HE3	1:BC:120:THR:CG2	2.50	0.42
1:BP:113:CYS:HB2	1:GL:124:ALA:HB3	2.00	0.42
1:BP:145:LEU:HA	1:BP:145:LEU:HD23	1.83	0.42
1:CC:67:VAL:HG11	1:CC:124:ALA:HA	2.01	0.42
1:CD:37:GLN:HG3	1:CD:58:THR:HG21	2.00	0.42
1:CH:102:ASP:HB2	1:CH:109:VAL:HG23	2.01	0.42
1:CJ:126:PHE:CD2	1:CJ:128:LEU:HG	2.54	0.42
1:CQ:131:ASP:OD2	1:CQ:134:ARG:NH1	2.51	0.42
1:CV:157:LEU:HD23	1:CV:157:LEU:HA	1.73	0.42
1:DB:162:THR:HG21	1:DC:40:ASN:OD1	2.18	0.42
1:DD:157:LEU:HA	1:DD:157:LEU:HD23	1.83	0.42
1:DE:104:ASN:O	1:EV:103:VAL:HG23	2.19	0.42
1:DF:4:GLN:HB3	1:EV:98:THR:HA	2.00	0.42
1:DG:26:LEU:HD12	1:DG:46:ASN:HD22	1.84	0.42
1:DO:141:MET:HE2	1:DO:141:MET:HB2	1.90	0.42
1:DT:68:TYR:CE1	1:DT:79:TYR:HA	2.54	0.42
1:DT:81:SER:OG	1:DT:126:PHE:HE1	2.03	0.42
1:DU:138:ILE:HG21	1:DV:147:LEU:HD21	2.01	0.42
1:DW:67:VAL:HG11	1:DW:124:ALA:HA	2.00	0.42
1:DZ:51:LYS:HE2	1:EA:86:THR:HG21	2.00	0.42
1:DZ:126:PHE:CD2	1:DZ:128:LEU:HG	2.54	0.42
1:EG:87:LYS:HE3	1:EG:120:THR:CG2	2.49	0.42
1:EH:102:ASP:OD1	1:EH:104:ASN:N	2.49	0.42
1:ER:144:GLN:OE1	1:ES:26:LEU:HD13	2.19	0.42
1:ES:163:ARG:HB3	1:ES:166:GLY:O	2.18	0.42
1:ET:157:LEU:HD23	1:ET:157:LEU:HA	1.83	0.42
1:EY:26:LEU:O	1:EY:30:ALA:HB2	2.19	0.42
1:FM:68:TYR:CE1	1:FM:79:TYR:HA	2.53	0.42
1:FM:97:ARG:HB2	1:FM:112:ASP:HB3	2.00	0.42
1:GB:153:VAL:HG13	1:GB:164:ILE:HD13	2.00	0.42
1:GD:140:TRP:NE1	1:GE:55:GLU:OE2	2.52	0.42
1:GH:55:GLU:OE1	1:GI:8:TYR:CE1	2.72	0.42
1:GJ:75:ASN:CG	1:GL:82:SER:HB3	2.39	0.42
1:GL:67:VAL:HG11	1:GL:124:ALA:HA	2.00	0.42
1:GT:87:LYS:HE3	1:GT:120:THR:CG2	2.50	0.42
1:GW:153:VAL:HG13	1:GW:164:ILE:HD13	2.00	0.42
1:HA:17:LEU:HD12	1:HB:19:ILE:HD12	2.01	0.42
1:HE:126:PHE:HD2	1:HE:128:LEU:HG	1.84	0.42
1:HE:142:ILE:HD13	1:HF:142:ILE:HG23	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HF:51:LYS:HE2	1:HG:86:THR:HG21	2.00	0.42
1:HL:112:ASP:O	1:HM:76:GLN:NE2	2.29	0.42
1:HL:145:LEU:HA	1:HL:145:LEU:HD23	1.71	0.42
1:HR:19:ILE:HD12	1:HS:17:LEU:HD12	2.00	0.42
1:HU:99:GLN:HB3	1:HU:110:ILE:HG23	1.99	0.42
1:HX:67:VAL:HG11	1:HX:124:ALA:HA	2.00	0.42
1:IB:67:VAL:HG11	1:IB:124:ALA:HA	2.00	0.42
1:AF:157:LEU:HD23	1:AF:157:LEU:HA	1.87	0.42
1:AG:2:TYR:CB	1:AH:100:SER:HB2	2.49	0.42
1:AG:33:MET:HE3	1:AG:45:MET:HB2	2.00	0.42
1:AL:145:LEU:HD23	1:AL:145:LEU:HA	1.80	0.42
1:AR:126:PHE:CE2	1:AR:128:LEU:HG	2.54	0.42
1:AV:29:LYS:O	1:AV:47:THR:OG1	2.26	0.42
1:AZ:102:ASP:OD1	1:AZ:104:ASN:N	2.46	0.42
1:BO:51:LYS:HE2	1:BP:86:THR:HG21	2.01	0.42
1:BQ:2:TYR:HD2	1:CY:106:GLY:HA3	1.83	0.42
1:BU:120:THR:HB	1:BV:118:SER:HB2	2.01	0.42
1:BU:126:PHE:CD2	1:BU:128:LEU:HG	2.54	0.42
1:BW:4:GLN:HA	1:BX:97:ARG:O	2.19	0.42
1:BW:114:PRO:HG2	1:BX:67:VAL:CG1	2.45	0.42
1:CA:116:TRP:CZ3	1:CB:67:VAL:HG13	2.49	0.42
1:CG:129:VAL:CG2	1:CG:134:ARG:HH22	2.31	0.42
1:CK:147:LEU:HD21	1:FQ:138:ILE:HG21	2.01	0.42
1:CN:111:VAL:HG12	1:CO:78:PHE:HB3	2.01	0.42
1:CP:120:THR:HB	1:CQ:118:SER:HB2	2.01	0.42
1:CY:117:THR:HG22	1:CY:118:SER:N	2.35	0.42
1:DB:55:GLU:OE1	1:DC:8:TYR:CE1	2.72	0.42
1:DD:53:GLN:OE1	1:DD:97:ARG:HD2	2.19	0.42
1:DD:126:PHE:HD2	1:DD:128:LEU:HG	1.84	0.42
1:DK:120:THR:HB	1:DL:118:SER:HB2	2.01	0.42
1:DS:67:VAL:HG11	1:DS:124:ALA:HA	2.01	0.42
1:EC:153:VAL:HG13	1:EC:164:ILE:CD1	2.46	0.42
1:EE:29:LYS:HB3	1:EE:47:THR:OG1	2.19	0.42
1:EP:145:LEU:HD23	1:EP:145:LEU:HA	1.87	0.42
1:ET:53:GLN:OE1	1:ET:97:ARG:HD2	2.19	0.42
1:ET:163:ARG:HB3	1:ET:166:GLY:OXT	2.19	0.42
1:EU:51:LYS:HE2	1:EV:86:THR:HG21	2.00	0.42
1:EW:32:TYR:HE2	1:FR:163:ARG:CZ	2.31	0.42
1:EY:142:ILE:HD13	1:EZ:142:ILE:CG2	2.48	0.42
1:FE:72:ASN:O	1:FE:72:ASN:ND2	2.43	0.42
1:FE:141:MET:HB2	1:FE:141:MET:HE2	1.91	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FP:75:ASN:HB3	1:FP:78:PHE:HD2	1.82	0.42
1:FR:114:PRO:HG2	1:FS:67:VAL:CG1	2.44	0.42
1:FU:145:LEU:HA	1:FU:145:LEU:HD23	1.78	0.42
1:GF:68:TYR:CE1	1:GF:79:TYR:HA	2.55	0.42
1:GF:138:ILE:HG21	1:GG:147:LEU:HD21	2.01	0.42
1:GM:138:ILE:HG21	1:GN:147:LEU:HD21	2.00	0.42
1:HE:163:ARG:HB3	1:HE:166:GLY:OXT	2.19	0.42
1:HG:97:ARG:HB2	1:HG:112:ASP:HB3	2.00	0.42
1:HO:87:LYS:HE3	1:HO:120:THR:CG2	2.50	0.42
1:HX:53:GLN:NE2	1:HX:95:ILE:O	2.50	0.42
1:HZ:126:PHE:HD2	1:HZ:128:LEU:HG	1.84	0.42
1:AJ:97:ARG:HA	1:AJ:112:ASP:CB	2.50	0.42
1:AM:140:TRP:NE1	1:AN:55:GLU:OE2	2.52	0.42
1:AN:117:THR:HG22	1:AN:118:SER:N	2.35	0.42
1:AS:53:GLN:OE1	1:AS:97:ARG:HD2	2.19	0.42
1:AS:105:THR:HG23	1:GA:100:SER:OG	2.19	0.42
1:AV:26:LEU:HD12	1:AV:46:ASN:HD22	1.84	0.42
1:AV:114:PRO:HG2	1:AW:67:VAL:CG1	2.44	0.42
1:AY:164:ILE:HG21	1:AY:164:ILE:HD13	1.60	0.42
1:BE:145:LEU:HA	1:BE:145:LEU:HD23	1.82	0.42
1:BF:19:ILE:HD12	1:BG:17:LEU:HD12	2.00	0.42
1:BO:103:VAL:HB	1:FD:104:ASN:HA	2.01	0.42
1:BZ:87:LYS:HE3	1:BZ:120:THR:CG2	2.49	0.42
1:CG:162:THR:HG21	1:CH:40:ASN:OD1	2.18	0.42
1:CI:126:PHE:HD2	1:CI:128:LEU:HG	1.84	0.42
1:CM:51:LYS:NZ	1:CY:131:ASP:OD1	2.50	0.42
1:DC:102:ASP:HB2	1:DC:109:VAL:HG23	2.02	0.42
1:DD:85:GLY:HA2	1:DD:125:ASP:HB2	2.00	0.42
1:DL:87:LYS:HE3	1:DL:120:THR:CG2	2.48	0.42
1:DO:145:LEU:HA	1:DO:145:LEU:HD23	1.79	0.42
1:DP:87:LYS:HE3	1:DP:120:THR:CG2	2.49	0.42
1:DQ:4:GLN:HA	1:DR:97:ARG:O	2.19	0.42
1:DQ:128:LEU:HD22	1:DR:98:THR:HG21	2.00	0.42
1:DR:153:VAL:HG13	1:DR:164:ILE:CD1	2.49	0.42
1:DV:85:GLY:HA2	1:DV:125:ASP:N	2.29	0.42
1:DY:75:ASN:CG	1:EA:82:SER:HB3	2.39	0.42
1:DZ:145:LEU:HA	1:DZ:145:LEU:HD23	1.71	0.42
1:EB:8:TYR:CE1	1:EC:55:GLU:OE1	2.69	0.42
1:EB:138:ILE:HG21	1:EC:147:LEU:HD21	2.00	0.42
1:EF:120:THR:HB	1:EG:118:SER:HB2	2.01	0.42
1:EG:135:LYS:O	1:EG:139:GLU:HG3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EI:153:VAL:HG13	1:EI:164:ILE:HD13	2.00	0.42
1:EO:67:VAL:HG11	1:EO:124:ALA:HA	2.01	0.42
1:EP:138:ILE:HG21	1:EQ:147:LEU:HD21	2.01	0.42
1:EW:98:THR:HG21	1:EX:128:LEU:HD22	2.00	0.42
1:EZ:29:LYS:HB3	1:EZ:47:THR:OG1	2.19	0.42
1:FA:144:GLN:HA	1:FB:23:GLN:HB2	2.00	0.42
1:FK:78:PHE:HE1	1:FL:110:ILE:HB	1.84	0.42
1:FM:59:PHE:CD1	1:FM:90:ILE:HG12	2.55	0.42
1:FR:86:THR:OG1	1:GZ:51:LYS:HE3	2.20	0.42
1:FR:107:LEU:HD23	1:GN:2:TYR:CD2	2.54	0.42
1:FU:129:VAL:HG12	1:FU:134:ARG:NH2	2.34	0.42
1:GD:67:VAL:HG22	1:GD:83:SER:O	2.18	0.42
1:GH:68:TYR:CE1	1:GH:79:TYR:HA	2.53	0.42
1:GQ:126:PHE:CD2	1:GQ:128:LEU:HG	2.54	0.42
1:GZ:37:GLN:HG3	1:GZ:58:THR:HG21	2.00	0.42
1:HH:29:LYS:O	1:HH:47:THR:OG1	2.26	0.42
1:HI:112:ASP:OD2	1:HI:112:ASP:N	2.52	0.42
1:HK:29:LYS:HB3	1:HK:47:THR:OG1	2.19	0.42
1:HO:153:VAL:HG13	1:HO:164:ILE:HD13	2.00	0.42
1:HQ:72:ASN:O	1:HQ:72:ASN:ND2	2.40	0.42
1:HT:140:TRP:NE1	1:HU:55:GLU:OE2	2.52	0.42
1:AJ:129:VAL:HG12	1:AJ:134:ARG:NH2	2.35	0.42
1:AN:67:VAL:HG11	1:AN:124:ALA:HA	2.01	0.42
1:AO:138:ILE:HG21	1:AP:147:LEU:HD21	2.01	0.42
1:AQ:144:GLN:OE1	1:AR:26:LEU:HD13	2.19	0.42
1:AX:32:TYR:HD1	1:AX:44:TYR:CE1	2.38	0.42
1:AX:145:LEU:HD23	1:AX:145:LEU:HA	1.79	0.42
1:AY:29:LYS:HB3	1:AY:47:THR:OG1	2.19	0.42
1:BB:4:GLN:HA	1:BC:97:ARG:O	2.19	0.42
1:BI:81:SER:OG	1:BI:126:PHE:HE1	2.03	0.42
1:BI:85:GLY:HA2	1:BI:125:ASP:HB2	2.01	0.42
1:BN:163:ARG:HB3	1:BN:166:GLY:OXT	2.19	0.42
1:CA:19:ILE:HD12	1:CB:17:LEU:HD12	2.00	0.42
1:CA:145:LEU:HD23	1:CA:145:LEU:HA	1.79	0.42
1:CG:59:PHE:HD1	1:CG:90:ILE:HG12	1.84	0.42
1:CI:145:LEU:HD23	1:CI:145:LEU:HA	1.79	0.42
1:CL:157:LEU:HD23	1:CL:157:LEU:HA	1.82	0.42
1:CM:102:ASP:HA	1:DT:105:THR:HG22	2.01	0.42
1:CO:129:VAL:HG12	1:CO:134:ARG:NH2	2.34	0.42
1:CT:99:GLN:CB	1:CT:110:ILE:HG12	2.50	0.42
1:CV:4:GLN:HA	1:CW:97:ARG:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DB:59:PHE:CD1	1:DB:90:ILE:HG12	2.55	0.42
1:DC:126:PHE:CE2	1:DC:128:LEU:HG	2.54	0.42
1:DD:163:ARG:HB3	1:DD:166:GLY:OXT	2.19	0.42
1:DF:26:LEU:HD23	1:DF:30:ALA:HB2	2.01	0.42
1:DI:26:LEU:O	1:DI:30:ALA:HB2	2.20	0.42
1:DK:126:PHE:CD2	1:DK:128:LEU:HG	2.54	0.42
1:DN:51:LYS:HD2	1:HE:134:ARG:NH1	2.34	0.42
1:DO:37:GLN:HG3	1:DO:58:THR:HG21	2.00	0.42
1:DU:68:TYR:CE1	1:DU:79:TYR:HA	2.55	0.42
1:DW:55:GLU:OE1	1:DX:8:TYR:CE1	2.72	0.42
1:EH:157:LEU:HD23	1:EH:157:LEU:HA	1.74	0.42
1:EP:68:TYR:CE1	1:EP:79:TYR:HA	2.55	0.42
1:ER:55:GLU:OE1	1:ES:8:TYR:CE1	2.72	0.42
1:ER:162:THR:HG21	1:ES:40:ASN:OD1	2.18	0.42
1:EW:101:THR:HG22	1:EW:108:PRO:HB3	2.01	0.42
1:EW:138:ILE:HG21	1:EX:147:LEU:HD21	2.00	0.42
1:EY:157:LEU:HA	1:EY:157:LEU:HD23	1.76	0.42
1:FB:135:LYS:O	1:FB:139:GLU:HG3	2.20	0.42
1:FD:87:LYS:HE3	1:FD:120:THR:CG2	2.50	0.42
1:FJ:67:VAL:HG11	1:FJ:124:ALA:HA	2.01	0.42
1:FM:144:GLN:OE1	1:FN:26:LEU:HD13	2.19	0.42
1:FN:102:ASP:HB2	1:FN:109:VAL:HG23	2.02	0.42
1:FR:86:THR:HG21	1:GZ:51:LYS:HE2	2.01	0.42
1:FX:4:GLN:HB3	1:FY:98:THR:HA	2.01	0.42
1:FX:114:PRO:HG2	1:FY:67:VAL:CG1	2.45	0.42
1:GQ:120:THR:HB	1:GR:118:SER:HB2	2.01	0.42
1:GW:4:GLN:HA	1:GX:97:ARG:O	2.19	0.42
1:GX:157:LEU:HD23	1:GX:157:LEU:HA	1.81	0.42
1:GY:87:LYS:HE3	1:GY:120:THR:CG2	2.50	0.42
1:HA:144:GLN:HA	1:HB:23:GLN:HB2	2.00	0.42
1:HD:126:PHE:CE2	1:HD:128:LEU:HG	2.54	0.42
1:HW:95:ILE:CG2	1:HW:112:ASP:HB2	2.50	0.42
1:HX:59:PHE:HD1	1:HX:90:ILE:HG12	1.84	0.42
1:HX:162:THR:HG21	1:HY:40:ASN:OD1	2.18	0.42
1:AB:82:SER:HB2	1:DH:75:ASN:HB3	2.00	0.42
1:AC:32:TYR:HD1	1:AC:44:TYR:CE1	2.38	0.42
1:AC:95:ILE:HG12	1:AD:73:VAL:HG12	2.02	0.42
1:AE:120:THR:HB	1:AF:118:SER:HB2	2.01	0.42
1:AX:111:VAL:HG12	1:AY:78:PHE:HB3	2.01	0.42
1:AY:145:LEU:HA	1:AY:145:LEU:HD23	1.78	0.42
1:AZ:120:THR:HB	1:BA:118:SER:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:157:LEU:HD23	1:BA:157:LEU:HA	1.87	0.42
1:BB:102:ASP:OD1	1:BB:104:ASN:N	2.49	0.42
1:BC:153:VAL:HG13	1:BC:164:ILE:HD13	2.00	0.42
1:BG:153:VAL:HG13	1:BG:164:ILE:CD1	2.49	0.42
1:BH:8:TYR:CE1	1:BI:55:GLU:OE1	2.70	0.42
1:BI:37:GLN:HG3	1:BI:58:THR:HG21	2.00	0.42
1:BO:126:PHE:CD2	1:BO:128:LEU:HG	2.54	0.42
1:BS:26:LEU:O	1:BS:30:ALA:HB2	2.19	0.42
1:BS:32:TYR:HD1	1:BS:44:TYR:CE1	2.38	0.42
1:BW:4:GLN:HB3	1:BX:98:THR:HA	2.01	0.42
1:CR:102:ASP:OD1	1:CR:104:ASN:N	2.49	0.42
1:DF:43:THR:HA	1:DF:58:THR:HG23	2.02	0.42
1:EE:157:LEU:HD23	1:EE:157:LEU:HA	1.86	0.42
1:ET:134:ARG:O	1:ET:137:THR:HG22	2.19	0.42
1:FG:116:TRP:CZ3	1:FH:67:VAL:HG13	2.50	0.42
1:FJ:117:THR:HG22	1:FJ:118:SER:N	2.35	0.42
1:FL:95:ILE:CG2	1:FL:112:ASP:HB2	2.50	0.42
1:FO:53:GLN:OE1	1:FO:97:ARG:HD2	2.19	0.42
1:FO:53:GLN:CD	1:FO:97:ARG:HD2	2.40	0.42
1:FQ:43:THR:HA	1:FQ:58:THR:HG23	2.02	0.42
1:FX:33:MET:HE3	1:FX:45:MET:HB2	2.01	0.42
1:FZ:162:THR:CB	1:GB:34:ASP:HB3	2.33	0.42
1:GH:59:PHE:HD1	1:GH:90:ILE:HG12	1.84	0.42
1:GV:145:LEU:HA	1:GV:145:LEU:HD23	1.82	0.42
1:GZ:97:ARG:HB2	1:GZ:112:ASP:HB3	2.02	0.42
1:HJ:142:ILE:HD13	1:HK:142:ILE:CG2	2.48	0.42
1:HP:99:GLN:CB	1:HP:110:ILE:HG12	2.50	0.42
1:HZ:53:GLN:CD	1:HZ:97:ARG:HD2	2.40	0.42
1:AH:87:LYS:HE3	1:AH:120:THR:CG2	2.50	0.42
1:AH:153:VAL:HG13	1:AH:164:ILE:HD13	2.00	0.42
1:AM:29:LYS:O	1:AM:47:THR:OG1	2.31	0.42
1:AT:75:ASN:ND2	1:FZ:81:SER:OG	2.48	0.42
1:BA:51:LYS:HG2	1:CE:159:SER:OG	2.18	0.42
1:BN:51:LYS:HE2	1:FE:86:THR:HG21	2.01	0.42
1:BN:53:GLN:CD	1:BN:97:ARG:HD2	2.40	0.42
1:BN:75:ASN:OD1	1:BN:76:GLN:N	2.53	0.42
1:BN:110:ILE:HD11	1:FE:127:THR:HG21	2.01	0.42
1:BY:99:GLN:CB	1:BY:110:ILE:HG12	2.50	0.42
1:CG:55:GLU:OE1	1:CH:8:TYR:CE1	2.72	0.42
1:CI:53:GLN:CD	1:CI:97:ARG:HD2	2.40	0.42
1:CJ:51:LYS:HE2	1:CK:86:THR:HG21	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CL:86:THR:OG1	1:DT:51:LYS:HE3	2.19	0.42
1:CN:95:ILE:HG12	1:CO:73:VAL:HG12	2.02	0.42
1:DG:136:SER:OG	1:DH:22:TYR:OH	2.31	0.42
1:DH:157:LEU:HD23	1:DH:157:LEU:HA	1.81	0.42
1:DL:157:LEU:HD23	1:DL:157:LEU:HA	1.87	0.42
1:DT:97:ARG:HB2	1:DT:112:ASP:HB3	2.02	0.42
1:DT:117:THR:HG22	1:DT:118:SER:N	2.35	0.42
1:DV:95:ILE:CG2	1:DV:112:ASP:HB2	2.50	0.42
1:DY:53:GLN:CD	1:DY:97:ARG:HD2	2.40	0.42
1:DY:145:LEU:HA	1:DY:145:LEU:HD23	1.79	0.42
1:EA:26:LEU:HD23	1:EA:30:ALA:HB2	2.01	0.42
1:EK:87:LYS:HE3	1:EK:120:THR:CG2	2.49	0.42
1:EU:126:PHE:CD2	1:EU:128:LEU:HG	2.54	0.42
1:EY:32:TYR:HD1	1:EY:44:TYR:CE1	2.38	0.42
1:EY:145:LEU:HD23	1:EY:145:LEU:HA	1.79	0.42
1:FJ:81:SER:OG	1:FJ:126:PHE:HE1	2.03	0.42
1:FO:85:GLY:HA2	1:FO:125:ASP:HB2	2.00	0.42
1:FO:163:ARG:HB3	1:FO:166:GLY:OXT	2.19	0.42
1:FY:87:LYS:HE3	1:FY:120:THR:CG2	2.50	0.42
1:GI:163:ARG:HB3	1:GI:166:GLY:O	2.18	0.42
1:HE:75:ASN:OD1	1:HE:76:GLN:N	2.53	0.42
1:HM:87:LYS:HE3	1:HM:120:THR:CG2	2.49	0.42
1:HN:145:LEU:HA	1:HN:145:LEU:HD23	1.76	0.42
1:HV:138:ILE:HG21	1:HW:147:LEU:HD21	2.01	0.42
1:IA:51:LYS:HE2	1:IB:86:THR:HG21	2.01	0.42
1:AM:67:VAL:HG11	1:AM:124:ALA:HA	2.01	0.42
1:AM:87:LYS:HE3	1:AM:120:THR:CG2	2.50	0.42
1:AS:163:ARG:HB3	1:AS:166:GLY:OXT	2.19	0.42
1:AZ:23:GLN:HB2	1:BA:144:GLN:HA	2.02	0.42
1:AZ:33:MET:HE3	1:AZ:45:MET:HB2	2.02	0.42
1:BA:135:LYS:O	1:BA:139:GLU:HG3	2.20	0.42
1:BH:140:TRP:NE1	1:BI:55:GLU:OE2	2.52	0.42
1:BN:75:ASN:CG	1:BP:82:SER:HB3	2.39	0.42
1:BN:157:LEU:HD23	1:BN:157:LEU:HA	1.83	0.42
1:BS:95:ILE:HG12	1:BT:73:VAL:HG12	2.02	0.42
1:BS:111:VAL:HG12	1:BT:78:PHE:HB3	2.01	0.42
1:BU:4:GLN:HA	1:BV:97:ARG:O	2.20	0.42
1:CD:68:TYR:CE1	1:CD:79:TYR:HA	2.54	0.42
1:CD:117:THR:HG22	1:CD:118:SER:N	2.35	0.42
1:CE:68:TYR:CE1	1:CE:79:TYR:HA	2.55	0.42
1:CI:75:ASN:CG	1:CK:82:SER:HB3	2.39	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CL:101:THR:HG22	1:CL:108:PRO:HB3	2.01	0.42
1:CL:107:LEU:CD2	1:DH:2:TYR:HB3	2.49	0.42
1:CU:97:ARG:HA	1:CU:112:ASP:CB	2.50	0.42
1:DA:95:ILE:CG2	1:DA:112:ASP:HB2	2.50	0.42
1:DB:97:ARG:HB2	1:DB:112:ASP:HB3	2.00	0.42
1:DJ:87:LYS:HE3	1:DJ:120:THR:HG21	2.02	0.42
1:DO:117:THR:HG22	1:DP:141:MET:HE3	2.02	0.42
1:DR:72:ASN:O	1:DR:72:ASN:ND2	2.45	0.42
1:DU:17:LEU:HD12	1:DV:19:ILE:HD12	2.01	0.42
1:EC:127:THR:HA	1:HI:74:GLN:OE1	2.19	0.42
1:ED:95:ILE:HG12	1:EE:73:VAL:HG12	2.02	0.42
1:EF:144:GLN:HA	1:EG:23:GLN:HB2	2.00	0.42
1:EH:4:GLN:HA	1:EI:97:ARG:O	2.19	0.42
1:EN:67:VAL:HG11	1:EN:124:ALA:HA	2.01	0.42
1:EN:71:SER:HA	1:EO:93:LYS:HD2	2.02	0.42
1:EN:140:TRP:NE1	1:EO:55:GLU:OE2	2.52	0.42
1:EP:78:PHE:HE1	1:EQ:110:ILE:HB	1.84	0.42
1:EP:166:GLY:N	1:EQ:44:TYR:OH	2.53	0.42
1:ER:59:PHE:CD1	1:ER:90:ILE:HG12	2.55	0.42
1:ET:53:GLN:CD	1:ET:97:ARG:HD2	2.40	0.42
1:FB:1:SER:N	1:FC:106:GLY:HA3	2.35	0.42
1:FG:102:ASP:OD1	1:FG:104:ASN:N	2.51	0.42
1:FI:148:LEU:HD23	1:FI:148:LEU:HA	1.85	0.42
1:FN:126:PHE:CE2	1:FN:128:LEU:HG	2.54	0.42
1:FU:87:LYS:HE3	1:FU:120:THR:HG21	2.02	0.42
1:FZ:99:GLN:CB	1:FZ:110:ILE:HG12	2.50	0.42
1:GB:4:GLN:HA	1:GC:97:ARG:O	2.19	0.42
1:GK:126:PHE:CD2	1:GK:128:LEU:HG	2.54	0.42
1:GL:26:LEU:HD23	1:GL:30:ALA:HB2	2.01	0.42
1:GL:135:LYS:O	1:GL:139:GLU:HG3	2.20	0.42
1:GM:107:LEU:HD21	1:HI:2:TYR:CB	2.50	0.42
1:GO:32:TYR:HD1	1:GO:44:TYR:CE1	2.38	0.42
1:GR:135:LYS:O	1:GR:139:GLU:HG3	2.20	0.42
1:GS:4:GLN:HA	1:GT:97:ARG:O	2.19	0.42
1:GU:145:LEU:HA	1:GU:145:LEU:HD23	1.79	0.42
1:GV:129:VAL:HG12	1:GV:134:ARG:NH2	2.35	0.42
1:GW:166:GLY:N	1:GX:44:TYR:OH	2.53	0.42
1:HC:59:PHE:CD1	1:HC:90:ILE:HG12	2.55	0.42
1:HF:126:PHE:CD2	1:HF:128:LEU:HG	2.54	0.42
1:HG:26:LEU:HD23	1:HG:30:ALA:HB2	2.01	0.42
1:HJ:32:TYR:HD1	1:HJ:44:TYR:CE1	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HJ:95:ILE:HG12	1:HK:73:VAL:HG12	2.02	0.42
1:HN:114:PRO:HG2	1:HO:67:VAL:CG1	2.45	0.42
1:HQ:129:VAL:HG12	1:HQ:134:ARG:NH2	2.35	0.42
1:HV:68:TYR:CE1	1:HV:79:TYR:HA	2.55	0.42
1:HX:55:GLU:OE1	1:HY:8:TYR:CE1	2.72	0.42
1:IB:135:LYS:O	1:IB:139:GLU:HG3	2.20	0.42
1:AD:87:LYS:HE3	1:AD:120:THR:HG21	2.02	0.42
1:AG:145:LEU:HA	1:AG:145:LEU:HD23	1.76	0.42
1:AH:104:ASN:HA	1:GK:103:VAL:HB	2.02	0.42
1:AI:37:GLN:HG3	1:AI:58:THR:HG21	2.00	0.42
1:AK:166:GLY:O	1:AL:44:TYR:OH	2.36	0.42
1:AO:166:GLY:N	1:AP:44:TYR:OH	2.53	0.42
1:AR:102:ASP:HB2	1:AR:109:VAL:HG23	2.01	0.42
1:AT:145:LEU:HA	1:AT:145:LEU:HD23	1.71	0.42
1:AV:67:VAL:HG21	1:AV:124:ALA:HB2	2.02	0.42
1:BB:134:ARG:O	1:BB:137:THR:HG22	2.20	0.42
1:BF:166:GLY:N	1:BG:44:TYR:OH	2.53	0.42
1:BY:2:TYR:CD2	1:ET:106:GLY:HA3	2.54	0.42
1:CE:166:GLY:N	1:CF:44:TYR:OH	2.53	0.42
1:CG:97:ARG:HB2	1:CG:112:ASP:HB3	2.00	0.42
1:CI:134:ARG:O	1:CI:137:THR:HG22	2.19	0.42
1:CL:33:MET:HE1	1:CL:45:MET:HB2	2.02	0.42
1:CO:29:LYS:HB3	1:CO:47:THR:OG1	2.19	0.42
1:CP:4:GLN:HA	1:CQ:97:ARG:O	2.20	0.42
1:CY:81:SER:OG	1:CY:126:PHE:HE1	2.03	0.42
1:CZ:166:GLY:N	1:DA:44:TYR:OH	2.53	0.42
1:DE:101:THR:HA	1:DE:108:PRO:HA	2.02	0.42
1:DG:101:THR:HG22	1:DG:108:PRO:HB3	2.01	0.42
1:DM:4:GLN:HA	1:DN:97:ARG:O	2.19	0.42
1:DP:51:LYS:NZ	1:DX:131:ASP:OD1	2.38	0.42
1:DU:99:GLN:CB	1:DU:110:ILE:HG12	2.46	0.42
1:DU:126:PHE:CE2	1:DU:128:LEU:HG	2.55	0.42
1:DX:102:ASP:HB2	1:DX:109:VAL:HG23	2.01	0.42
1:EE:84:LYS:HG2	1:EG:75:ASN:OD1	2.20	0.42
1:EO:117:THR:HG22	1:EO:118:SER:N	2.35	0.42
1:EQ:95:ILE:CG2	1:EQ:112:ASP:HB2	2.50	0.42
1:ER:51:LYS:CE	1:ET:158:CYS:HB2	2.50	0.42
1:ET:75:ASN:OD1	1:ET:76:GLN:N	2.53	0.42
1:FA:4:GLN:HA	1:FB:97:ARG:O	2.20	0.42
1:FC:59:PHE:HD1	1:FC:90:ILE:HG12	1.85	0.42
1:FF:97:ARG:HA	1:FF:112:ASP:CB	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FG:166:GLY:O	1:FH:44:TYR:OH	2.36	0.42
1:FH:145:LEU:HA	1:FH:145:LEU:HD23	1.80	0.42
1:FH:153:VAL:HG13	1:FH:164:ILE:CD1	2.49	0.42
1:FJ:85:GLY:HA2	1:FJ:125:ASP:HB2	2.01	0.42
1:FQ:135:LYS:O	1:FQ:139:GLU:HG3	2.20	0.42
1:FW:135:LYS:O	1:FW:139:GLU:HG3	2.20	0.42
1:FX:2:TYR:CB	1:FY:100:SER:HB2	2.49	0.42
1:GA:129:VAL:HG12	1:GA:134:ARG:NH2	2.35	0.42
1:GE:67:VAL:HG11	1:GE:124:ALA:HA	2.01	0.42
1:GG:95:ILE:CG2	1:GG:112:ASP:HB2	2.50	0.42
1:GH:59:PHE:CD1	1:GH:90:ILE:HG12	2.55	0.42
1:GM:97:ARG:HA	1:GM:112:ASP:HB3	2.02	0.42
1:GO:26:LEU:O	1:GO:30:ALA:HB2	2.19	0.42
1:HA:68:TYR:CE1	1:HA:79:TYR:HA	2.55	0.42
1:HA:85:GLY:HA2	1:HA:125:ASP:N	2.28	0.42
1:HB:145:LEU:HD23	1:HB:145:LEU:HA	1.89	0.42
1:HC:53:GLN:NE2	1:HC:95:ILE:O	2.50	0.42
1:HP:157:LEU:HA	1:HP:157:LEU:HD23	1.78	0.42
1:HX:103:VAL:HG13	1:HX:105:THR:O	2.20	0.42
1:AF:135:LYS:O	1:AF:139:GLU:HG3	2.20	0.42
1:AK:166:GLY:N	1:AL:44:TYR:OH	2.53	0.42
1:AO:71:SER:HA	1:AP:93:LYS:HD2	2.02	0.42
1:AS:53:GLN:CD	1:AS:97:ARG:HD2	2.40	0.42
1:AS:75:ASN:OD1	1:AS:76:GLN:N	2.53	0.42
1:AS:126:PHE:HD2	1:AS:128:LEU:HG	1.84	0.42
1:AT:103:VAL:HB	1:FY:104:ASN:HA	2.02	0.42
1:AU:43:THR:HA	1:AU:58:THR:HG23	2.02	0.42
1:AX:142:ILE:HD13	1:AY:142:ILE:CG2	2.48	0.42
1:AZ:4:GLN:HA	1:BA:97:ARG:O	2.20	0.42
1:AZ:33:MET:HE1	1:AZ:45:MET:HB2	2.01	0.42
1:BI:67:VAL:HG11	1:BI:124:ALA:HA	2.01	0.42
1:BJ:68:TYR:CE1	1:BJ:79:TYR:HA	2.55	0.42
1:BK:85:GLY:HA2	1:BK:125:ASP:N	2.29	0.42
1:BQ:67:VAL:HG21	1:BQ:124:ALA:HB2	2.02	0.42
1:BQ:101:THR:HG22	1:BQ:108:PRO:HB3	2.01	0.42
1:BQ:145:LEU:HA	1:BQ:145:LEU:HD23	1.81	0.42
1:BZ:97:ARG:HA	1:BZ:112:ASP:CB	2.50	0.42
1:BZ:104:ASN:ND2	1:EK:104:ASN:ND2	2.67	0.42
1:CB:153:VAL:HG13	1:CB:164:ILE:CD1	2.49	0.42
1:CJ:101:THR:HA	1:CJ:108:PRO:HA	2.02	0.42
1:CL:145:LEU:HD23	1:CL:145:LEU:HA	1.81	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CM:29:LYS:HB3	1:CM:47:THR:OG1	2.20	0.42
1:CN:32:TYR:HD1	1:CN:44:TYR:CE1	2.38	0.42
1:CR:59:PHE:HD1	1:CR:90:ILE:HG12	1.85	0.42
1:CS:87:LYS:HE3	1:CS:120:THR:CG2	2.50	0.42
1:CX:85:GLY:HA2	1:CX:125:ASP:N	2.26	0.42
1:DK:4:GLN:HA	1:DL:97:ARG:O	2.20	0.42
1:DY:53:GLN:OE1	1:DY:97:ARG:HD2	2.19	0.42
1:ED:32:TYR:HD1	1:ED:44:TYR:CE1	2.38	0.42
1:ED:97:ARG:HA	1:ED:112:ASP:HB3	2.02	0.42
1:EF:126:PHE:CD2	1:EF:128:LEU:HG	2.54	0.42
1:EG:1:SER:N	1:EH:106:GLY:HA3	2.35	0.42
1:ER:53:GLN:NE2	1:ER:95:ILE:O	2.50	0.42
1:ES:145:LEU:HD23	1:ES:145:LEU:HA	1.85	0.42
1:EX:112:ASP:OD2	1:EX:112:ASP:N	2.52	0.42
1:FG:166:GLY:N	1:FH:44:TYR:OH	2.53	0.42
1:FK:126:PHE:CE2	1:FK:128:LEU:HG	2.55	0.42
1:FM:59:PHE:HD1	1:FM:90:ILE:HG12	1.84	0.42
1:FP:126:PHE:CD2	1:FP:128:LEU:HG	2.54	0.42
1:FQ:145:LEU:HD23	1:FQ:145:LEU:HA	1.83	0.42
1:FV:23:GLN:HB2	1:FW:144:GLN:HA	2.02	0.42
1:FX:134:ARG:O	1:FX:137:THR:HG22	2.20	0.42
1:FX:145:LEU:HA	1:FX:145:LEU:HD23	1.76	0.42
1:GB:50:PRO:HD3	1:GC:7:GLY:O	2.20	0.42
1:GD:71:SER:HA	1:GE:93:LYS:HD2	2.02	0.42
1:GJ:53:GLN:OE1	1:GJ:97:ARG:HD2	2.20	0.42
1:GJ:75:ASN:OD1	1:GJ:76:GLN:N	2.53	0.42
1:GM:67:VAL:HG21	1:GM:124:ALA:HB2	2.02	0.42
1:GP:84:LYS:HG2	1:GR:75:ASN:OD1	2.20	0.42
1:GR:1:SER:N	1:GS:106:GLY:HA3	2.35	0.42
1:HA:126:PHE:CE2	1:HA:128:LEU:HG	2.55	0.42
1:HE:145:LEU:HA	1:HE:145:LEU:HD23	1.79	0.42
1:HK:84:LYS:HG2	1:HM:75:ASN:OD1	2.20	0.42
1:HN:59:PHE:HD1	1:HN:90:ILE:HG12	1.85	0.42
1:HR:166:GLY:N	1:HS:44:TYR:OH	2.53	0.42
1:HV:17:LEU:HD12	1:HW:19:ILE:HD12	2.01	0.42
1:HX:51:LYS:CE	1:HZ:158:CYS:HB2	2.50	0.42
1:HZ:75:ASN:OD1	1:HZ:76:GLN:N	2.53	0.42
1:IA:126:PHE:CD2	1:IA:128:LEU:HG	2.54	0.42
1:AC:26:LEU:O	1:AC:30:ALA:HB2	2.19	0.41
1:AF:1:SER:N	1:AG:106:GLY:HA3	2.35	0.41
1:AI:59:PHE:CD1	1:AI:90:ILE:HG12	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:141:MET:HB2	1:AI:141:MET:HE2	1.91	0.41
1:AK:50:PRO:HD3	1:AL:7:GLY:O	2.20	0.41
1:AM:144:GLN:OE1	1:AN:26:LEU:HD13	2.20	0.41
1:AN:97:ARG:HB2	1:AN:112:ASP:HB3	2.02	0.41
1:AO:68:TYR:CE1	1:AO:79:TYR:HA	2.55	0.41
1:AW:112:ASP:OD2	1:AW:112:ASP:N	2.52	0.41
1:AX:26:LEU:O	1:AX:30:ALA:HB2	2.19	0.41
1:AX:97:ARG:HA	1:AX:112:ASP:HB3	2.02	0.41
1:BA:1:SER:N	1:BB:106:GLY:HA3	2.35	0.41
1:BE:97:ARG:HA	1:BE:112:ASP:CB	2.50	0.41
1:BH:59:PHE:CD1	1:BH:90:ILE:HG12	2.55	0.41
1:BJ:134:ARG:O	1:BJ:137:THR:HG22	2.20	0.41
1:BL:55:GLU:OE1	1:BM:8:TYR:CE1	2.72	0.41
1:BO:103:VAL:HG21	1:FD:103:VAL:O	2.19	0.41
1:BP:100:SER:HB2	1:GL:2:TYR:HA	2.02	0.41
1:BR:29:LYS:HB3	1:BR:47:THR:OG1	2.20	0.41
1:BT:84:LYS:HG2	1:BV:75:ASN:OD1	2.20	0.41
1:BU:23:GLN:HB2	1:BV:144:GLN:HA	2.02	0.41
1:BW:134:ARG:O	1:BW:137:THR:HG22	2.20	0.41
1:BX:145:LEU:HD23	1:BX:145:LEU:HA	1.88	0.41
1:CD:67:VAL:HG11	1:CD:124:ALA:HA	2.01	0.41
1:CE:17:LEU:HD12	1:CF:19:ILE:HD12	2.01	0.41
1:CL:74:GLN:OE1	1:CY:63:LYS:NZ	2.49	0.41
1:CO:87:LYS:HE3	1:CO:120:THR:HG21	2.02	0.41
1:CO:157:LEU:HD23	1:CO:157:LEU:HA	1.86	0.41
1:CR:37:GLN:HG3	1:CR:58:THR:HG21	2.02	0.41
1:CT:59:PHE:CD1	1:CT:90:ILE:HG12	2.55	0.41
1:CX:67:VAL:HG11	1:CX:124:ALA:HA	2.01	0.41
1:CX:87:LYS:HE3	1:CX:120:THR:CG2	2.50	0.41
1:CZ:68:TYR:CE1	1:CZ:79:TYR:HA	2.55	0.41
1:DB:59:PHE:HD1	1:DB:90:ILE:HG12	1.84	0.41
1:DB:120:THR:HB	1:DC:118:SER:HB2	2.02	0.41
1:DB:129:VAL:CG2	1:DB:134:ARG:HH22	2.31	0.41
1:DF:95:ILE:HG23	1:DF:112:ASP:HB2	2.02	0.41
1:DG:29:LYS:O	1:DG:47:THR:OG1	2.26	0.41
1:DI:95:ILE:HG12	1:DJ:73:VAL:HG12	2.02	0.41
1:DJ:145:LEU:HA	1:DJ:145:LEU:HD23	1.78	0.41
1:DK:29:LYS:O	1:DK:47:THR:OG1	2.25	0.41
1:DM:33:MET:HE1	1:DM:45:MET:HB2	2.01	0.41
1:DM:134:ARG:O	1:DM:137:THR:HG22	2.20	0.41
1:DQ:145:LEU:HA	1:DQ:145:LEU:HD23	1.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DY:75:ASN:OD1	1:DY:76:GLN:N	2.53	0.41
1:EA:55:GLU:OE1	1:IB:8:TYR:HE1	2.02	0.41
1:EG:110:ILE:HD12	1:FL:127:THR:OG1	2.20	0.41
1:EN:87:LYS:HE3	1:EN:120:THR:CG2	2.50	0.41
1:EV:26:LEU:HD23	1:EV:30:ALA:HB2	2.01	0.41
1:EW:102:ASP:OD1	1:EW:104:ASN:N	2.51	0.41
1:FI:144:GLN:OE1	1:FJ:26:LEU:HD13	2.20	0.41
1:FK:17:LEU:HD12	1:FL:19:ILE:HD12	2.01	0.41
1:FK:99:GLN:CB	1:FK:110:ILE:HG12	2.46	0.41
1:FK:166:GLY:N	1:FL:44:TYR:OH	2.53	0.41
1:FR:102:ASP:OD1	1:FR:104:ASN:N	2.51	0.41
1:FX:59:PHE:HD1	1:FX:90:ILE:HG12	1.85	0.41
1:GH:97:ARG:HA	1:GH:112:ASP:HB3	2.02	0.41
1:GS:4:GLN:HB3	1:GT:98:THR:HA	2.01	0.41
1:GV:97:ARG:HA	1:GV:112:ASP:CB	2.50	0.41
1:GW:50:PRO:HD3	1:GX:7:GLY:O	2.20	0.41
1:HE:53:GLN:OE1	1:HE:97:ARG:HD2	2.20	0.41
1:HE:53:GLN:CD	1:HE:97:ARG:HD2	2.40	0.41
1:HT:71:SER:HA	1:HU:93:LYS:HD2	2.02	0.41
1:HX:144:GLN:OE1	1:HY:26:LEU:HD13	2.18	0.41
1:HY:102:ASP:HB2	1:HY:109:VAL:HG23	2.01	0.41
1:IB:43:THR:HA	1:IB:58:THR:HG23	2.02	0.41
1:AA:33:MET:HE3	1:AA:45:MET:HB2	2.02	0.41
1:AC:145:LEU:HD23	1:AC:145:LEU:HA	1.79	0.41
1:AG:4:GLN:HA	1:AH:97:ARG:O	2.19	0.41
1:AI:2:TYR:CD2	1:GJ:106:GLY:HA3	2.55	0.41
1:AI:26:LEU:HA	1:AI:46:ASN:ND2	2.36	0.41
1:AK:116:TRP:CZ3	1:AL:67:VAL:HG13	2.49	0.41
1:AU:145:LEU:HD23	1:AU:145:LEU:HA	1.83	0.41
1:AV:97:ARG:HA	1:AV:112:ASP:HB3	2.02	0.41
1:AW:29:LYS:HB3	1:AW:47:THR:OG1	2.20	0.41
1:BB:114:PRO:HG2	1:BC:67:VAL:CG1	2.45	0.41
1:BJ:71:SER:HA	1:BK:93:LYS:HD2	2.02	0.41
1:BP:97:ARG:O	1:GL:4:GLN:HA	2.20	0.41
1:BQ:98:THR:HG21	1:BR:128:LEU:HD22	2.00	0.41
1:BV:135:LYS:O	1:BV:139:GLU:HG3	2.20	0.41
1:CG:55:GLU:OE2	1:CH:140:TRP:CE2	2.74	0.41
1:CL:98:THR:HG21	1:CM:128:LEU:HD22	2.00	0.41
1:CL:114:PRO:HG2	1:CM:67:VAL:CG1	2.44	0.41
1:CN:26:LEU:O	1:CN:30:ALA:HB2	2.19	0.41
1:CN:142:ILE:HD13	1:CO:142:ILE:CG2	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CR:134:ARG:O	1:CR:137:THR:HG22	2.20	0.41
1:CR:145:LEU:HA	1:CR:145:LEU:HD23	1.76	0.41
1:CV:166:GLY:N	1:CW:44:TYR:OH	2.53	0.41
1:CZ:134:ARG:O	1:CZ:137:THR:HG22	2.21	0.41
1:DB:55:GLU:OE2	1:DC:140:TRP:CE2	2.74	0.41
1:DB:97:ARG:HA	1:DB:112:ASP:HB3	2.02	0.41
1:DE:126:PHE:CD2	1:DE:128:LEU:HG	2.54	0.41
1:DE:135:LYS:O	1:DE:139:GLU:HG3	2.21	0.41
1:DI:32:TYR:HD1	1:DI:44:TYR:CE1	2.38	0.41
1:DI:44:TYR:OH	1:DJ:166:GLY:N	2.54	0.41
1:DI:111:VAL:HG12	1:DJ:78:PHE:HB3	2.01	0.41
1:DK:145:LEU:HA	1:DK:145:LEU:HD23	1.71	0.41
1:DM:37:GLN:HG3	1:DM:58:THR:HG21	2.02	0.41
1:DM:114:PRO:HG2	1:DN:67:VAL:CG1	2.45	0.41
1:DO:86:THR:OG1	1:HE:51:LYS:HE3	2.20	0.41
1:DX:145:LEU:HD23	1:DX:145:LEU:HA	1.85	0.41
1:EB:97:ARG:HA	1:EB:112:ASP:HB3	2.02	0.41
1:EH:134:ARG:O	1:EH:137:THR:HG22	2.20	0.41
1:EJ:99:GLN:CB	1:EJ:110:ILE:HG12	2.50	0.41
1:EN:59:PHE:CD1	1:EN:90:ILE:HG12	2.55	0.41
1:EP:134:ARG:O	1:EP:137:THR:HG22	2.21	0.41
1:FC:4:GLN:HB3	1:FD:98:THR:HA	2.01	0.41
1:FC:147:LEU:O	1:FD:135:LYS:NZ	2.49	0.41
1:FE:59:PHE:CD1	1:FE:90:ILE:HG12	2.55	0.41
1:FF:129:VAL:HG12	1:FF:134:ARG:NH2	2.35	0.41
1:FO:120:THR:HB	1:FP:118:SER:HB2	2.03	0.41
1:FR:97:ARG:HA	1:FR:112:ASP:HB3	2.02	0.41
1:FS:112:ASP:OD2	1:FS:112:ASP:N	2.52	0.41
1:GA:87:LYS:HE3	1:GA:120:THR:CG2	2.49	0.41
1:GB:82:SER:HB3	1:GH:75:ASN:HB2	2.03	0.41
1:GB:137:THR:HA	1:GC:94:ARG:NH1	2.35	0.41
1:GE:117:THR:HG22	1:GE:118:SER:N	2.35	0.41
1:GJ:145:LEU:HA	1:GJ:145:LEU:HD23	1.79	0.41
1:GP:1:SER:O	1:GP:1:SER:OG	2.38	0.41
1:GQ:23:GLN:HB2	1:GR:144:GLN:HA	2.02	0.41
1:GW:145:LEU:HA	1:GW:145:LEU:HD23	1.79	0.41
1:GY:71:SER:HA	1:GZ:93:LYS:HD2	2.02	0.41
1:GY:148:LEU:HD23	1:GY:148:LEU:HA	1.85	0.41
1:HC:103:VAL:HG13	1:HC:105:THR:O	2.20	0.41
1:HG:145:LEU:HA	1:HG:145:LEU:HD23	1.83	0.41
1:HH:101:THR:HG22	1:HH:108:PRO:HB3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HI:51:LYS:NZ	1:HU:131:ASP:OD1	2.50	0.41
1:HM:26:LEU:O	1:HM:30:ALA:HB2	2.21	0.41
1:HS:51:LYS:NZ	1:HW:159:SER:OG	2.50	0.41
1:HU:85:GLY:HA2	1:HU:125:ASP:HB2	2.01	0.41
1:HU:97:ARG:HB2	1:HU:112:ASP:HB3	2.02	0.41
1:HU:145:LEU:HD23	1:HU:145:LEU:HA	1.86	0.41
1:HX:59:PHE:CD1	1:HX:90:ILE:HG12	2.55	0.41
1:IB:95:ILE:HG23	1:IB:112:ASP:HB2	2.02	0.41
1:AC:44:TYR:OH	1:AD:166:GLY:N	2.54	0.41
1:AD:84:LYS:HG2	1:AF:75:ASN:OD1	2.20	0.41
1:AK:102:ASP:OD1	1:AK:104:ASN:N	2.51	0.41
1:AK:137:THR:HA	1:AL:94:ARG:NH1	2.36	0.41
1:AK:145:LEU:HA	1:AK:145:LEU:HD23	1.79	0.41
1:AO:126:PHE:CE2	1:AO:128:LEU:HG	2.55	0.41
1:AO:144:GLN:HA	1:AP:23:GLN:HB2	2.00	0.41
1:AP:95:ILE:CG2	1:AP:112:ASP:HB2	2.50	0.41
1:AQ:55:GLU:OE2	1:AR:140:TRP:CE2	2.74	0.41
1:AQ:59:PHE:CD1	1:AQ:90:ILE:HG12	2.55	0.41
1:AV:101:THR:HG22	1:AV:108:PRO:HB3	2.01	0.41
1:BD:26:LEU:HA	1:BD:46:ASN:ND2	2.36	0.41
1:BF:82:SER:HB3	1:BL:75:ASN:HB2	2.03	0.41
1:BH:87:LYS:HE3	1:BH:120:THR:CG2	2.50	0.41
1:BP:142:ILE:HD13	1:GL:142:ILE:HG23	2.02	0.41
1:BT:29:LYS:HB3	1:BT:47:THR:OG1	2.19	0.41
1:BW:2:TYR:CB	1:BX:100:SER:HB2	2.49	0.41
1:BY:59:PHE:CD1	1:BY:90:ILE:HG12	2.55	0.41
1:CC:87:LYS:HE3	1:CC:120:THR:CG2	2.50	0.41
1:CE:126:PHE:CE2	1:CE:128:LEU:HG	2.55	0.41
1:CJ:135:LYS:O	1:CJ:139:GLU:HG3	2.21	0.41
1:CL:67:VAL:HG21	1:CL:124:ALA:HB2	2.02	0.41
1:CT:26:LEU:HA	1:CT:46:ASN:ND2	2.35	0.41
1:CX:144:GLN:OE1	1:CY:26:LEU:HD13	2.20	0.41
1:CZ:126:PHE:CE2	1:CZ:128:LEU:HG	2.55	0.41
1:DF:144:GLN:HE22	1:EV:26:LEU:HB3	1.85	0.41
1:DG:33:MET:HE1	1:DG:45:MET:HB2	2.02	0.41
1:DG:74:GLN:OE1	1:DT:63:LYS:NZ	2.49	0.41
1:DH:29:LYS:HB3	1:DH:47:THR:OG1	2.20	0.41
1:DH:112:ASP:OD2	1:DH:112:ASP:N	2.52	0.41
1:DI:74:GLN:OE1	1:DS:63:LYS:NZ	2.53	0.41
1:DL:1:SER:N	1:DM:106:GLY:HA3	2.35	0.41
1:DL:87:LYS:HE3	1:DL:120:THR:HG21	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DN:87:LYS:HE3	1:DN:120:THR:CG2	2.50	0.41
1:DN:103:VAL:O	1:HF:103:VAL:HG21	2.20	0.41
1:DO:59:PHE:CD1	1:DO:90:ILE:HG12	2.55	0.41
1:DQ:50:PRO:HD3	1:DR:7:GLY:O	2.20	0.41
1:DQ:97:ARG:HA	1:DQ:112:ASP:HB3	2.02	0.41
1:EA:95:ILE:HG23	1:EA:112:ASP:HB2	2.02	0.41
1:EE:87:LYS:HE3	1:EE:120:THR:HG21	2.02	0.41
1:EL:97:ARG:HA	1:EL:112:ASP:HB3	2.02	0.41
1:EL:166:GLY:N	1:EM:44:TYR:OH	2.53	0.41
1:ES:159:SER:HA	1:EV:51:LYS:HG2	2.02	0.41
1:EV:43:THR:HA	1:EV:58:THR:HG23	2.02	0.41
1:EV:95:ILE:HG23	1:EV:112:ASP:HB2	2.02	0.41
1:EV:135:LYS:O	1:EV:139:GLU:HG3	2.20	0.41
1:EW:67:VAL:HG21	1:EW:124:ALA:HB2	2.02	0.41
1:EY:97:ARG:HA	1:EY:112:ASP:HB3	2.02	0.41
1:FA:120:THR:HB	1:FB:118:SER:HB2	2.01	0.41
1:FF:145:LEU:HD23	1:FF:145:LEU:HA	1.82	0.41
1:FG:97:ARG:HA	1:FG:112:ASP:HB3	2.02	0.41
1:FL:75:ASN:HB3	1:FL:78:PHE:HD2	1.82	0.41
1:FP:135:LYS:O	1:FP:139:GLU:HG3	2.21	0.41
1:FR:106:GLY:HA3	1:GN:1:SER:H2	1.85	0.41
1:FU:84:LYS:HG2	1:FW:75:ASN:OD1	2.20	0.41
1:FX:37:GLN:HG3	1:FX:58:THR:HG21	2.02	0.41
1:GG:85:GLY:HA2	1:GG:125:ASP:N	2.28	0.41
1:GH:120:THR:HB	1:GI:118:SER:HB2	2.03	0.41
1:GI:159:SER:HA	1:GL:51:LYS:HG2	2.03	0.41
1:GK:101:THR:HA	1:GK:108:PRO:HA	2.02	0.41
1:GV:87:LYS:HE3	1:GV:120:THR:HG21	2.03	0.41
1:GY:59:PHE:CD1	1:GY:90:ILE:HG12	2.55	0.41
1:GY:67:VAL:HG11	1:GY:124:ALA:HA	2.01	0.41
1:HI:29:LYS:HB3	1:HI:47:THR:OG1	2.20	0.41
1:HP:26:LEU:HA	1:HP:46:ASN:ND2	2.36	0.41
1:HU:117:THR:HG22	1:HU:118:SER:N	2.35	0.41
1:HV:166:GLY:N	1:HW:44:TYR:OH	2.53	0.41
1:HX:55:GLU:OE2	1:HY:140:TRP:CE2	2.74	0.41
1:HZ:53:GLN:OE1	1:HZ:97:ARG:HD2	2.20	0.41
1:AB:29:LYS:HB3	1:AB:47:THR:OG1	2.20	0.41
1:AQ:51:LYS:CE	1:AS:158:CYS:HB2	2.50	0.41
1:AR:145:LEU:HD23	1:AR:145:LEU:HA	1.85	0.41
1:AU:95:ILE:HG23	1:AU:112:ASP:HB2	2.02	0.41
1:BE:129:VAL:HG12	1:BE:134:ARG:NH2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BJ:144:GLN:HA	1:BK:23:GLN:HB2	2.00	0.41
1:BO:101:THR:HA	1:BO:108:PRO:HA	2.02	0.41
1:BP:94:ARG:HH11	1:GL:137:THR:HA	1.85	0.41
1:BP:141:MET:HB2	1:BP:141:MET:HE2	1.83	0.41
1:BQ:97:ARG:HA	1:BQ:112:ASP:HB3	2.02	0.41
1:CG:59:PHE:CD1	1:CG:90:ILE:HG12	2.55	0.41
1:CG:103:VAL:HG13	1:CG:105:THR:O	2.20	0.41
1:CI:75:ASN:OD1	1:CI:76:GLN:N	2.53	0.41
1:CI:120:THR:HB	1:CJ:118:SER:HB2	2.03	0.41
1:CK:4:GLN:HB3	1:FQ:98:THR:HA	2.03	0.41
1:CM:112:ASP:OD2	1:CM:112:ASP:N	2.52	0.41
1:CQ:1:SER:N	1:CR:106:GLY:HA3	2.35	0.41
1:DD:75:ASN:OD1	1:DD:76:GLN:N	2.53	0.41
1:DE:157:LEU:HD23	1:DE:157:LEU:HA	1.89	0.41
1:DF:124:ALA:HB2	1:EV:114:PRO:HD2	2.02	0.41
1:DF:135:LYS:O	1:DF:139:GLU:HG3	2.20	0.41
1:DQ:137:THR:HA	1:DR:94:ARG:NH1	2.35	0.41
1:DU:166:GLY:N	1:DV:44:TYR:OH	2.53	0.41
1:EB:67:VAL:HG21	1:EB:124:ALA:HB2	2.02	0.41
1:EB:110:ILE:HD12	1:EX:127:THR:HG21	2.02	0.41
1:EH:37:GLN:HG3	1:EH:58:THR:HG21	2.02	0.41
1:EK:87:LYS:HE3	1:EK:120:THR:HG21	2.03	0.41
1:EM:87:LYS:HE3	1:EM:120:THR:CG2	2.51	0.41
1:ER:120:THR:HB	1:ES:118:SER:HB2	2.03	0.41
1:ER:136:SER:HG	1:ES:22:TYR:HH	1.67	0.41
1:EX:29:LYS:HB3	1:EX:47:THR:OG1	2.20	0.41
1:EY:44:TYR:OH	1:EZ:166:GLY:N	2.53	0.41
1:FC:134:ARG:O	1:FC:137:THR:HG22	2.20	0.41
1:FG:50:PRO:HD3	1:FH:7:GLY:O	2.20	0.41
1:FH:87:LYS:HE3	1:FH:120:THR:CG2	2.51	0.41
1:FO:75:ASN:OD1	1:FO:76:GLN:N	2.53	0.41
1:FT:44:TYR:OH	1:FU:166:GLY:N	2.54	0.41
1:FV:4:GLN:HA	1:FW:97:ARG:O	2.20	0.41
1:FZ:59:PHE:CD1	1:FZ:90:ILE:HG12	2.55	0.41
1:GB:97:ARG:HA	1:GB:112:ASP:HB3	2.02	0.41
1:GD:99:GLN:HB3	1:GD:110:ILE:HG23	2.03	0.41
1:GF:99:GLN:CB	1:GF:110:ILE:HG12	2.46	0.41
1:GF:126:PHE:CE2	1:GF:128:LEU:HG	2.55	0.41
1:GJ:126:PHE:HD2	1:GJ:128:LEU:HG	1.84	0.41
1:GN:51:LYS:NZ	1:GZ:131:ASP:OD1	2.50	0.41
1:GO:95:ILE:HG12	1:GP:73:VAL:HG12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GR:87:LYS:HE3	1:GR:120:THR:HG21	2.03	0.41
1:HK:87:LYS:HE3	1:HK:120:THR:HG21	2.02	0.41
1:HM:135:LYS:O	1:HM:139:GLU:HG3	2.20	0.41
1:HP:59:PHE:CD1	1:HP:90:ILE:HG12	2.55	0.41
1:HQ:97:ARG:HA	1:HQ:112:ASP:CB	2.50	0.41
1:AC:33:MET:CE	1:AC:45:MET:HB2	2.51	0.41
1:AF:26:LEU:O	1:AF:30:ALA:HB2	2.21	0.41
1:AH:51:LYS:HD2	1:GJ:134:ARG:NH1	2.35	0.41
1:AO:63:LYS:NZ	1:AO:86:THR:OG1	2.45	0.41
1:AO:134:ARG:O	1:AO:137:THR:HG22	2.21	0.41
1:AQ:103:VAL:HG13	1:AQ:105:THR:O	2.20	0.41
1:AU:98:THR:HG23	1:HG:2:TYR:CD1	2.55	0.41
1:AX:33:MET:CE	1:AX:45:MET:HB2	2.51	0.41
1:BA:26:LEU:O	1:BA:30:ALA:HB2	2.21	0.41
1:BA:87:LYS:HE3	1:BA:120:THR:HG21	2.03	0.41
1:BB:37:GLN:HG3	1:BB:58:THR:HG21	2.02	0.41
1:BD:59:PHE:CD1	1:BD:90:ILE:HG12	2.55	0.41
1:BD:99:GLN:CB	1:BD:110:ILE:HG12	2.50	0.41
1:BD:157:LEU:HD23	1:BD:157:LEU:HA	1.78	0.41
1:BF:147:LEU:HD21	1:BG:138:ILE:HG21	2.03	0.41
1:BI:117:THR:HG22	1:BI:118:SER:N	2.35	0.41
1:BQ:19:ILE:HD12	1:BR:17:LEU:HD12	2.03	0.41
1:BU:136:SER:HG	1:BV:22:TYR:HH	1.63	0.41
1:BV:1:SER:N	1:BW:106:GLY:HA3	2.35	0.41
1:CA:50:PRO:HD3	1:CB:7:GLY:O	2.20	0.41
1:CB:157:LEU:HA	1:CB:157:LEU:HD23	1.81	0.41
1:CD:97:ARG:HB2	1:CD:112:ASP:HB3	2.02	0.41
1:CH:126:PHE:CE2	1:CH:128:LEU:HG	2.54	0.41
1:CN:97:ARG:HA	1:CN:112:ASP:HB3	2.02	0.41
1:DP:87:LYS:HE3	1:DP:120:THR:HG21	2.03	0.41
1:DW:97:ARG:HA	1:DW:112:ASP:HB3	2.02	0.41
1:DX:99:GLN:HB2	1:DX:110:ILE:HG12	2.03	0.41
1:DZ:135:LYS:O	1:DZ:139:GLU:HG3	2.21	0.41
1:ED:33:MET:HE1	1:ED:45:MET:HB2	2.02	0.41
1:ED:74:GLN:OE1	1:EN:63:LYS:NZ	2.53	0.41
1:EH:59:PHE:HD1	1:EH:90:ILE:HG12	1.85	0.41
1:EP:71:SER:HA	1:EQ:93:LYS:HD2	2.02	0.41
1:EP:126:PHE:CE2	1:EP:128:LEU:HG	2.55	0.41
1:EU:101:THR:HA	1:EU:108:PRO:HA	2.02	0.41
1:EY:111:VAL:HG12	1:EZ:78:PHE:HB3	2.01	0.41
1:FB:87:LYS:HE3	1:FB:120:THR:HG21	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FC:157:LEU:HD23	1:FC:157:LEU:HA	1.74	0.41
1:FI:102:ASP:HB3	1:FI:105:THR:O	2.21	0.41
1:FK:68:TYR:CE1	1:FK:79:TYR:HA	2.55	0.41
1:FM:103:VAL:HG13	1:FM:105:THR:O	2.20	0.41
1:FS:157:LEU:HD23	1:FS:157:LEU:HA	1.80	0.41
1:FU:157:LEU:HD23	1:FU:157:LEU:HA	1.86	0.41
1:FV:112:ASP:O	1:FW:76:GLN:NE2	2.29	0.41
1:GM:101:THR:HG22	1:GM:108:PRO:HB3	2.01	0.41
1:GN:124:ALA:O	1:GN:129:VAL:HG21	2.21	0.41
1:GR:26:LEU:O	1:GR:30:ALA:HB2	2.21	0.41
1:GW:137:THR:HA	1:GX:94:ARG:NH1	2.36	0.41
1:GX:87:LYS:HE3	1:GX:120:THR:CG2	2.51	0.41
1:GY:144:GLN:OE1	1:GZ:26:LEU:HD13	2.20	0.41
1:GZ:145:LEU:HD23	1:GZ:145:LEU:HA	1.86	0.41
1:HB:95:ILE:CG2	1:HB:112:ASP:HB2	2.50	0.41
1:HD:102:ASP:HB2	1:HD:109:VAL:HG23	2.01	0.41
1:HG:95:ILE:HG23	1:HG:112:ASP:HB2	2.02	0.41
1:HI:124:ALA:O	1:HI:129:VAL:HG21	2.21	0.41
1:HM:1:SER:N	1:HN:106:GLY:HA3	2.35	0.41
1:HO:145:LEU:HD23	1:HO:145:LEU:HA	1.88	0.41
1:HR:137:THR:HA	1:HS:94:ARG:NH1	2.36	0.41
1:HT:144:GLN:OE1	1:HU:26:LEU:HD13	2.20	0.41
1:AI:99:GLN:CB	1:AI:110:ILE:HG12	2.50	0.41
1:AK:82:SER:HB3	1:AQ:75:ASN:HB2	2.03	0.41
1:AM:99:GLN:HB3	1:AM:110:ILE:HG23	2.03	0.41
1:AN:145:LEU:HD23	1:AN:145:LEU:HA	1.86	0.41
1:AP:131:ASP:OD2	1:DL:51:LYS:NZ	2.52	0.41
1:AR:157:LEU:HD23	1:AR:157:LEU:HA	1.92	0.41
1:AX:44:TYR:OH	1:AY:166:GLY:N	2.54	0.41
1:AX:95:ILE:HG12	1:AY:73:VAL:HG12	2.02	0.41
1:BE:87:LYS:HE3	1:BE:120:THR:HG21	2.03	0.41
1:BG:87:LYS:HE3	1:BG:120:THR:CG2	2.51	0.41
1:BH:144:GLN:OE1	1:BI:26:LEU:HD13	2.20	0.41
1:BJ:138:ILE:HG21	1:BK:147:LEU:HD21	2.01	0.41
1:BK:95:ILE:CG2	1:BK:112:ASP:HB2	2.50	0.41
1:BL:59:PHE:CD1	1:BL:90:ILE:HG12	2.55	0.41
1:BM:102:ASP:HB2	1:BM:109:VAL:HG23	2.02	0.41
1:BP:23:GLN:HB2	1:GL:144:GLN:HA	2.03	0.41
1:BQ:102:ASP:OD1	1:BQ:104:ASN:N	2.51	0.41
1:BT:87:LYS:HE3	1:BT:120:THR:HG21	2.02	0.41
1:BW:59:PHE:HD1	1:BW:90:ILE:HG12	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BX:87:LYS:HE3	1:BX:120:THR:CG2	2.50	0.41
1:BY:157:LEU:HA	1:BY:157:LEU:HD23	1.78	0.41
1:BZ:87:LYS:HE3	1:BZ:120:THR:HG21	2.03	0.41
1:CA:102:ASP:OD1	1:CA:104:ASN:N	2.51	0.41
1:CC:59:PHE:CD1	1:CC:90:ILE:HG12	2.55	0.41
1:CU:97:ARG:HA	1:CU:112:ASP:HB3	2.03	0.41
1:CV:33:MET:HE3	1:CV:33:MET:HB2	2.00	0.41
1:CV:50:PRO:HD3	1:CW:7:GLY:O	2.20	0.41
1:DB:103:VAL:HG13	1:DB:105:THR:O	2.20	0.41
1:DD:120:THR:HB	1:DE:118:SER:HB2	2.03	0.41
1:DJ:84:LYS:HG2	1:DL:75:ASN:OD1	2.20	0.41
1:DK:23:GLN:HB2	1:DL:144:GLN:HA	2.02	0.41
1:DL:135:LYS:O	1:DL:139:GLU:HG3	2.20	0.41
1:DM:59:PHE:HD1	1:DM:90:ILE:HG12	1.85	0.41
1:DP:129:VAL:CG1	1:DP:134:ARG:HH21	2.34	0.41
1:DQ:166:GLY:N	1:DR:44:TYR:OH	2.53	0.41
1:DR:145:LEU:HD23	1:DR:145:LEU:HA	1.80	0.41
1:DS:59:PHE:CD1	1:DS:90:ILE:HG12	2.55	0.41
1:DS:87:LYS:HE3	1:DS:120:THR:CG2	2.50	0.41
1:DX:97:ARG:HA	1:DX:112:ASP:HA	2.02	0.41
1:EA:43:THR:HA	1:EA:58:THR:HG23	2.02	0.41
1:EB:101:THR:HG22	1:EB:108:PRO:HB3	2.01	0.41
1:EJ:59:PHE:CD1	1:EJ:90:ILE:HG12	2.56	0.41
1:FE:99:GLN:CB	1:FE:110:ILE:HG12	2.50	0.41
1:FF:97:ARG:HA	1:FF:112:ASP:HB3	2.03	0.41
1:FM:97:ARG:HA	1:FM:112:ASP:HB3	2.02	0.41
1:FQ:26:LEU:HD23	1:FQ:30:ALA:HB2	2.01	0.41
1:FS:145:LEU:HD23	1:FS:145:LEU:HA	1.82	0.41
1:FT:33:MET:CE	1:FT:45:MET:HB2	2.51	0.41
1:FT:142:ILE:HD13	1:FU:142:ILE:CG2	2.48	0.41
1:FU:26:LEU:O	1:FU:30:ALA:HB2	2.21	0.41
1:FV:120:THR:HB	1:FW:118:SER:HB2	2.01	0.41
1:FW:1:SER:N	1:FX:106:GLY:HA3	2.35	0.41
1:FZ:145:LEU:HD23	1:FZ:145:LEU:HA	1.79	0.41
1:GA:97:ARG:HA	1:GA:112:ASP:HB3	2.03	0.41
1:GA:129:VAL:CG1	1:GA:134:ARG:HH21	2.34	0.41
1:GD:144:GLN:OE1	1:GE:26:LEU:HD13	2.20	0.41
1:GF:166:GLY:N	1:GG:44:TYR:OH	2.53	0.41
1:GI:102:ASP:HB2	1:GI:109:VAL:HG23	2.01	0.41
1:GU:59:PHE:CD1	1:GU:90:ILE:HG12	2.55	0.41
1:GX:51:LYS:NZ	1:HB:159:SER:OG	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GZ:81:SER:OG	1:GZ:126:PHE:HE1	2.02	0.41
1:HA:78:PHE:HE1	1:HB:110:ILE:HB	1.84	0.41
1:HD:159:SER:HA	1:HG:51:LYS:HG2	2.03	0.41
1:HH:8:TYR:CE1	1:HI:55:GLU:OE1	2.69	0.41
1:HK:26:LEU:O	1:HK:30:ALA:HB2	2.21	0.41
1:HL:4:GLN:HA	1:HM:97:ARG:O	2.20	0.41
1:HM:87:LYS:HE3	1:HM:120:THR:HG21	2.03	0.41
1:HN:4:GLN:HA	1:HO:97:ARG:O	2.19	0.41
1:HR:97:ARG:HA	1:HR:112:ASP:HB3	2.02	0.41
1:HT:87:LYS:HE3	1:HT:120:THR:CG2	2.50	0.41
1:HU:67:VAL:HG11	1:HU:124:ALA:HA	2.01	0.41
1:HV:19:ILE:HD12	1:HW:17:LEU:HD12	2.03	0.41
1:AA:97:ARG:HA	1:AA:112:ASP:HB3	2.02	0.41
1:AB:124:ALA:O	1:AB:129:VAL:HG21	2.21	0.41
1:AD:26:LEU:O	1:AD:30:ALA:HB2	2.21	0.41
1:AG:134:ARG:O	1:AG:137:THR:HG22	2.20	0.41
1:AP:67:VAL:HG22	1:AP:83:SER:O	2.21	0.41
1:AT:101:THR:HA	1:AT:108:PRO:HA	2.02	0.41
1:AT:126:PHE:CD2	1:AT:128:LEU:HG	2.54	0.41
1:AT:135:LYS:O	1:AT:139:GLU:HG3	2.21	0.41
1:AW:124:ALA:O	1:AW:129:VAL:HG21	2.21	0.41
1:AY:84:LYS:HG2	1:BA:75:ASN:OD1	2.20	0.41
1:BL:103:VAL:HG13	1:BL:105:THR:O	2.20	0.41
1:BP:43:THR:HA	1:BP:58:THR:HG23	2.02	0.41
1:BP:117:THR:HG22	1:GL:141:MET:HE3	2.02	0.41
1:BQ:86:THR:OG1	1:CY:51:LYS:HE3	2.20	0.41
1:BQ:106:GLY:HA3	1:CM:1:SER:H2	1.85	0.41
1:BS:74:GLN:OE1	1:CC:63:LYS:NZ	2.53	0.41
1:CA:166:GLY:N	1:CB:44:TYR:OH	2.53	0.41
1:CE:19:ILE:HD12	1:CF:17:LEU:HD12	2.03	0.41
1:CI:110:ILE:HD11	1:EJ:127:THR:HG21	2.02	0.41
1:CQ:87:LYS:HE3	1:CQ:120:THR:HG21	2.03	0.41
1:CX:59:PHE:CD1	1:CX:90:ILE:HG12	2.55	0.41
1:CY:97:ARG:HB2	1:CY:112:ASP:HB3	2.02	0.41
1:DC:97:ARG:HA	1:DC:112:ASP:HA	2.03	0.41
1:DF:97:ARG:O	1:EV:4:GLN:HA	2.21	0.41
1:DG:97:ARG:HA	1:DG:112:ASP:HB3	2.02	0.41
1:DH:124:ALA:O	1:DH:129:VAL:HG21	2.21	0.41
1:DP:129:VAL:HG12	1:DP:134:ARG:NH2	2.35	0.41
1:DV:67:VAL:HG22	1:DV:83:SER:O	2.21	0.41
1:DW:51:LYS:CE	1:DY:158:CYS:HB2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ED:111:VAL:HG12	1:EE:78:PHE:HB3	2.01	0.41
1:ED:157:LEU:HA	1:ED:157:LEU:HD23	1.76	0.41
1:EH:117:THR:HG22	1:EH:118:SER:N	2.36	0.41
1:EL:82:SER:HB3	1:ER:75:ASN:HB2	2.03	0.41
1:EL:147:LEU:HD21	1:EM:138:ILE:HG21	2.03	0.41
1:ET:120:THR:HB	1:EU:118:SER:HB2	2.03	0.41
1:FI:59:PHE:CD1	1:FI:90:ILE:HG12	2.55	0.41
1:FI:87:LYS:HE3	1:FI:120:THR:CG2	2.50	0.41
1:FJ:97:ARG:HB2	1:FJ:112:ASP:HB3	2.02	0.41
1:FK:71:SER:HA	1:FL:93:LYS:HD2	2.02	0.41
1:FL:75:ASN:HB3	1:FL:78:PHE:CE2	2.56	0.41
1:FN:159:SER:HA	1:FQ:51:LYS:HG2	2.03	0.41
1:FS:29:LYS:HB3	1:FS:47:THR:OG1	2.20	0.41
1:FZ:157:LEU:HD23	1:FZ:157:LEU:HA	1.78	0.41
1:GA:145:LEU:HD23	1:GA:145:LEU:HA	1.82	0.41
1:GD:148:LEU:HD23	1:GD:148:LEU:HA	1.85	0.41
1:GH:103:VAL:HG13	1:GH:105:THR:O	2.20	0.41
1:GN:112:ASP:OD2	1:GN:112:ASP:N	2.52	0.41
1:GO:33:MET:CE	1:GO:45:MET:HB2	2.51	0.41
1:GQ:4:GLN:HA	1:GR:97:ARG:O	2.20	0.41
1:GS:37:GLN:HG3	1:GS:58:THR:HG21	2.02	0.41
1:GU:117:THR:HG22	1:GV:141:MET:HE3	2.03	0.41
1:HB:75:ASN:HB3	1:HB:78:PHE:CE2	2.56	0.41
1:HH:67:VAL:HG21	1:HH:124:ALA:HB2	2.02	0.41
1:HJ:33:MET:CE	1:HJ:45:MET:HB2	2.51	0.41
1:HM:157:LEU:HD23	1:HM:157:LEU:HA	1.87	0.41
1:HN:134:ARG:O	1:HN:137:THR:HG22	2.20	0.41
1:HQ:87:LYS:HE3	1:HQ:120:THR:HG21	2.03	0.41
1:IB:50:PRO:HD2	1:IB:53:GLN:HB3	2.03	0.41
1:AA:155:SER:CB	1:DG:51:LYS:HZ1	2.33	0.41
1:AG:37:GLN:HG3	1:AG:58:THR:HG21	2.02	0.41
1:AI:33:MET:CE	1:AI:45:MET:HB2	2.51	0.41
1:AM:102:ASP:HB3	1:AM:105:THR:O	2.21	0.41
1:AN:33:MET:CG	1:AN:45:MET:HB2	2.51	0.41
1:AP:85:GLY:HA2	1:AP:125:ASP:N	2.29	0.41
1:AQ:97:ARG:HA	1:AQ:112:ASP:HB3	2.02	0.41
1:AV:19:ILE:HD12	1:AW:17:LEU:HD12	2.03	0.41
1:AY:87:LYS:HE3	1:AY:120:THR:HG21	2.02	0.41
1:BB:117:THR:HG22	1:BB:118:SER:N	2.36	0.41
1:BO:135:LYS:O	1:BO:139:GLU:HG3	2.21	0.41
1:BS:33:MET:CE	1:BS:45:MET:HB2	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BW:145:LEU:HD23	1:BW:145:LEU:HA	1.76	0.41
1:CC:99:GLN:HB3	1:CC:110:ILE:HG23	2.03	0.41
1:CP:23:GLN:HB2	1:CQ:144:GLN:HA	2.02	0.41
1:CQ:26:LEU:O	1:CQ:30:ALA:HB2	2.21	0.41
1:CQ:135:LYS:O	1:CQ:139:GLU:HG3	2.20	0.41
1:CT:157:LEU:HD23	1:CT:157:LEU:HA	1.78	0.41
1:CU:129:VAL:HG12	1:CU:134:ARG:NH2	2.35	0.41
1:CV:97:ARG:HA	1:CV:112:ASP:HB3	2.02	0.41
1:CX:71:SER:HA	1:CY:93:LYS:HD2	2.02	0.41
1:DI:131:ASP:OD1	1:DI:134:ARG:NH1	2.50	0.41
1:DP:97:ARG:HA	1:DP:112:ASP:CB	2.50	0.41
1:DQ:82:SER:HB3	1:DW:75:ASN:HB2	2.03	0.41
1:DR:87:LYS:HE3	1:DR:120:THR:CG2	2.51	0.41
1:DW:55:GLU:OE2	1:DX:140:TRP:CE2	2.74	0.41
1:EA:135:LYS:O	1:EA:139:GLU:HG3	2.20	0.41
1:EF:4:GLN:HA	1:EG:97:ARG:O	2.20	0.41
1:EI:87:LYS:HE3	1:EI:120:THR:CG2	2.50	0.41
1:EJ:33:MET:CE	1:EJ:45:MET:HB2	2.51	0.41
1:EL:43:THR:HG23	1:EL:58:THR:OG1	2.21	0.41
1:EN:102:ASP:HB3	1:EN:105:THR:O	2.21	0.41
1:EW:97:ARG:HA	1:EW:112:ASP:HB3	2.02	0.41
1:EX:145:LEU:HA	1:EX:145:LEU:HD23	1.82	0.41
1:FA:141:MET:HB2	1:FA:141:MET:HE2	2.00	0.41
1:FI:99:GLN:HB3	1:FI:110:ILE:HG23	2.03	0.41
1:FM:51:LYS:CE	1:FO:158:CYS:HB2	2.50	0.41
1:FM:120:THR:HB	1:FN:118:SER:HB2	2.03	0.41
1:FN:97:ARG:HA	1:FN:112:ASP:HA	2.03	0.41
1:GB:43:THR:HG23	1:GB:58:THR:OG1	2.21	0.41
1:GB:166:GLY:N	1:GC:44:TYR:OH	2.53	0.41
1:GK:145:LEU:HA	1:GK:145:LEU:HD23	1.71	0.41
1:GS:136:SER:HG	1:GT:22:TYR:HH	1.56	0.41
1:HA:19:ILE:HD12	1:HB:17:LEU:HD12	2.03	0.41
1:HC:97:ARG:HA	1:HC:112:ASP:HB3	2.02	0.41
1:HL:162:THR:CB	1:HN:34:ASP:HB3	2.40	0.41
1:HN:147:LEU:O	1:HO:135:LYS:NZ	2.49	0.41
1:HQ:97:ARG:HA	1:HQ:112:ASP:HB3	2.03	0.41
1:HT:102:ASP:HB3	1:HT:105:THR:O	2.21	0.41
1:HV:134:ARG:O	1:HV:137:THR:HG22	2.21	0.41
1:HV:145:LEU:HA	1:HV:145:LEU:HD23	1.87	0.41
1:HZ:163:ARG:HB3	1:HZ:166:GLY:OXT	2.19	0.41
1:AA:67:VAL:HG21	1:AA:124:ALA:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:164:ILE:HG21	1:AD:164:ILE:HD13	1.60	0.41
1:AE:4:GLN:HA	1:AF:97:ARG:O	2.20	0.41
1:AE:23:GLN:HB2	1:AF:144:GLN:HA	2.02	0.41
1:AG:59:PHE:HD1	1:AG:90:ILE:HG12	1.85	0.41
1:AG:147:LEU:O	1:AH:135:LYS:NZ	2.49	0.41
1:AI:162:THR:CB	1:AK:34:ASP:HB3	2.33	0.41
1:AJ:145:LEU:HD23	1:AJ:145:LEU:HA	1.82	0.41
1:AK:43:THR:HG23	1:AK:58:THR:OG1	2.21	0.41
1:AL:51:LYS:NZ	1:AP:159:SER:OG	2.50	0.41
1:AP:141:MET:HE2	1:AP:141:MET:HB2	1.94	0.41
1:AT:103:VAL:CG2	1:FY:103:VAL:O	2.69	0.41
1:AU:50:PRO:HD2	1:AU:53:GLN:HB3	2.03	0.41
1:BB:23:GLN:HB2	1:BC:144:GLN:HA	2.03	0.41
1:BD:72:ASN:O	1:BD:72:ASN:ND2	2.43	0.41
1:BE:104:ASN:HD21	1:FF:104:ASN:ND2	2.19	0.41
1:BF:43:THR:HG23	1:BF:58:THR:OG1	2.21	0.41
1:BF:50:PRO:HD3	1:BG:7:GLY:O	2.20	0.41
1:BH:99:GLN:HB3	1:BH:110:ILE:HG23	2.03	0.41
1:BI:33:MET:CG	1:BI:45:MET:HB2	2.51	0.41
1:BK:75:ASN:HB3	1:BK:78:PHE:CE2	2.56	0.41
1:BL:97:ARG:HA	1:BL:112:ASP:HB3	2.02	0.41
1:BM:97:ARG:HA	1:BM:112:ASP:HA	2.02	0.41
1:BM:99:GLN:HB2	1:BM:110:ILE:HG12	2.03	0.41
1:BN:51:LYS:HE3	1:FE:86:THR:OG1	2.20	0.41
1:BP:4:GLN:HB3	1:GL:98:THR:HA	2.03	0.41
1:BR:124:ALA:O	1:BR:129:VAL:HG21	2.21	0.41
1:BS:44:TYR:OH	1:BT:166:GLY:N	2.54	0.41
1:BS:98:THR:HG21	1:BT:128:LEU:HD22	2.03	0.41
1:BZ:97:ARG:HA	1:BZ:112:ASP:HB3	2.03	0.41
1:CA:43:THR:HG23	1:CA:58:THR:OG1	2.21	0.41
1:CC:102:ASP:HB3	1:CC:105:THR:O	2.21	0.41
1:CE:63:LYS:NZ	1:CE:86:THR:OG1	2.45	0.41
1:CE:71:SER:HA	1:CF:93:LYS:HD2	2.02	0.41
1:CE:85:GLY:HA2	1:CE:125:ASP:N	2.28	0.41
1:CE:99:GLN:CB	1:CE:110:ILE:HG12	2.46	0.41
1:CE:134:ARG:O	1:CE:137:THR:HG22	2.21	0.41
1:CK:85:GLY:HA2	1:CK:125:ASP:N	2.29	0.41
1:CK:120:THR:HB	1:FQ:118:SER:HB2	2.02	0.41
1:CM:145:LEU:HD23	1:CM:145:LEU:HA	1.82	0.41
1:CN:67:VAL:HG21	1:CN:124:ALA:HB2	2.03	0.41
1:CP:17:LEU:HD12	1:CQ:19:ILE:HD12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CP:142:ILE:CG2	1:CQ:142:ILE:HD13	2.50	0.41
1:CS:29:LYS:O	1:CS:47:THR:OG1	2.22	0.41
1:CT:44:TYR:OH	1:CU:166:GLY:N	2.54	0.41
1:CV:99:GLN:CB	1:CV:110:ILE:HG12	2.51	0.41
1:CV:144:GLN:OE1	1:CW:26:LEU:HD13	2.21	0.41
1:CZ:17:LEU:HD12	1:DA:19:ILE:HD12	2.01	0.41
1:DB:51:LYS:CE	1:DD:158:CYS:HB2	2.50	0.41
1:DE:81:SER:OG	1:DE:126:PHE:HE1	2.04	0.41
1:DI:33:MET:CE	1:DI:45:MET:HB2	2.51	0.41
1:DJ:164:ILE:HD13	1:DJ:164:ILE:HG21	1.60	0.41
1:DM:4:GLN:HB3	1:DN:98:THR:HA	2.01	0.41
1:DO:99:GLN:CB	1:DO:110:ILE:HG12	2.50	0.41
1:DP:29:LYS:O	1:DP:47:THR:OG1	2.28	0.41
1:DS:102:ASP:HB3	1:DS:105:THR:O	2.21	0.41
1:DS:144:GLN:OE1	1:DT:26:LEU:HD13	2.20	0.41
1:DT:126:PHE:HD2	1:DT:128:LEU:HG	1.86	0.41
1:DW:59:PHE:CD1	1:DW:90:ILE:HG12	2.55	0.41
1:DY:4:GLN:HB3	1:DZ:98:THR:HA	2.03	0.41
1:DZ:101:THR:HA	1:DZ:108:PRO:HA	2.02	0.41
1:EA:145:LEU:HD23	1:EA:145:LEU:HA	1.83	0.41
1:EB:19:ILE:HD12	1:EC:17:LEU:HD12	2.03	0.41
1:ED:44:TYR:OH	1:EE:166:GLY:N	2.54	0.41
1:ED:120:THR:HB	1:EE:118:SER:HB2	2.03	0.41
1:EH:23:GLN:HB2	1:EI:144:GLN:HA	2.03	0.41
1:EK:97:ARG:HA	1:EK:112:ASP:CB	2.50	0.41
1:EK:97:ARG:HA	1:EK:112:ASP:HB3	2.03	0.41
1:EL:137:THR:HA	1:EM:94:ARG:NH1	2.36	0.41
1:ER:145:LEU:HA	1:ER:145:LEU:HD23	1.84	0.41
1:ES:102:ASP:HB2	1:ES:109:VAL:HG23	2.02	0.41
1:EU:81:SER:OG	1:EU:126:PHE:HE1	2.04	0.41
1:EW:19:ILE:HD12	1:EX:17:LEU:HD12	2.03	0.41
1:EZ:84:LYS:HG2	1:FB:75:ASN:OD1	2.20	0.41
1:EZ:87:LYS:HE3	1:EZ:120:THR:HG21	2.02	0.41
1:FA:17:LEU:HD12	1:FB:19:ILE:HD12	2.03	0.41
1:FA:23:GLN:HB2	1:FB:144:GLN:HA	2.02	0.41
1:FC:2:TYR:HD2	1:GG:106:GLY:HA3	1.85	0.41
1:FE:26:LEU:HA	1:FE:46:ASN:ND2	2.36	0.41
1:FG:99:GLN:CB	1:FG:110:ILE:HG12	2.51	0.41
1:FG:137:THR:HA	1:FH:94:ARG:NH1	2.36	0.41
1:FI:71:SER:HA	1:FJ:93:LYS:HD2	2.02	0.41
1:FO:4:GLN:HB3	1:FP:98:THR:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FQ:50:PRO:HD2	1:FQ:53:GLN:HB3	2.03	0.41
1:FR:17:LEU:HD12	1:FS:19:ILE:HD12	2.03	0.41
1:FR:33:MET:HE3	1:FR:45:MET:HB2	2.02	0.41
1:FT:29:LYS:O	1:FT:47:THR:OG1	2.22	0.41
1:FT:32:TYR:HD1	1:FT:44:TYR:CE1	2.38	0.41
1:FT:95:ILE:HG12	1:FU:73:VAL:HG12	2.02	0.41
1:FT:97:ARG:HA	1:FT:112:ASP:HB3	2.02	0.41
1:FU:164:ILE:HD13	1:FU:164:ILE:HG21	1.60	0.41
1:FW:110:ILE:HD11	1:HB:127:THR:HG21	2.02	0.41
1:GA:97:ARG:HA	1:GA:112:ASP:CB	2.50	0.41
1:GB:147:LEU:HD21	1:GC:138:ILE:HG21	2.03	0.41
1:GC:87:LYS:HE3	1:GC:120:THR:CG2	2.51	0.41
1:GD:59:PHE:CD1	1:GD:90:ILE:HG12	2.55	0.41
1:GF:71:SER:HA	1:GG:93:LYS:HD2	2.02	0.41
1:GF:134:ARG:O	1:GF:137:THR:HG22	2.20	0.41
1:GG:67:VAL:HG22	1:GG:83:SER:O	2.21	0.41
1:GG:75:ASN:HB3	1:GG:78:PHE:CE2	2.56	0.41
1:GG:87:LYS:HE3	1:GG:120:THR:CG2	2.51	0.41
1:GH:157:LEU:HD23	1:GH:157:LEU:HA	1.93	0.41
1:GJ:120:THR:HB	1:GK:118:SER:HB2	2.03	0.41
1:GL:43:THR:HA	1:GL:58:THR:HG23	2.02	0.41
1:GM:111:VAL:O	1:GM:111:VAL:HG23	2.21	0.41
1:GO:142:ILE:HD13	1:GP:142:ILE:CG2	2.48	0.41
1:GP:26:LEU:O	1:GP:30:ALA:HB2	2.21	0.41
1:GP:87:LYS:HE3	1:GP:120:THR:HG21	2.02	0.41
1:GS:59:PHE:HD1	1:GS:90:ILE:HG12	1.85	0.41
1:GS:117:THR:HG22	1:GS:118:SER:N	2.36	0.41
1:GT:157:LEU:HA	1:GT:157:LEU:HD23	1.82	0.41
1:GU:44:TYR:OH	1:GV:166:GLY:N	2.54	0.41
1:GW:102:ASP:OD1	1:GW:104:ASN:N	2.51	0.41
1:GY:99:GLN:HB3	1:GY:110:ILE:HG23	2.03	0.41
1:HA:63:LYS:NZ	1:HA:86:THR:OG1	2.45	0.41
1:HA:71:SER:HA	1:HB:93:LYS:HD2	2.02	0.41
1:HA:134:ARG:O	1:HA:137:THR:HG22	2.21	0.41
1:HB:67:VAL:HG22	1:HB:83:SER:O	2.21	0.41
1:HC:55:GLU:OE2	1:HD:140:TRP:CE2	2.74	0.41
1:HF:135:LYS:O	1:HF:139:GLU:HG3	2.21	0.41
1:HG:43:THR:HA	1:HG:58:THR:HG23	2.02	0.41
1:HG:135:LYS:O	1:HG:139:GLU:HG3	2.20	0.41
1:HH:17:LEU:HD12	1:HI:19:ILE:HD12	2.03	0.41
1:HH:111:VAL:HG23	1:HH:111:VAL:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HJ:97:ARG:HA	1:HJ:112:ASP:HB3	2.02	0.41
1:HL:17:LEU:HD12	1:HM:19:ILE:HD12	2.03	0.41
1:HL:23:GLN:HB2	1:HM:144:GLN:HA	2.02	0.41
1:HN:23:GLN:HB2	1:HO:144:GLN:HA	2.03	0.41
1:HP:162:THR:HG22	1:HQ:42:ALA:HB2	2.03	0.41
1:HR:50:PRO:HD3	1:HS:7:GLY:O	2.20	0.41
1:HV:126:PHE:CE2	1:HV:128:LEU:HG	2.55	0.41
1:HX:97:ARG:HA	1:HX:112:ASP:HB3	2.02	0.41
1:HY:157:LEU:HD23	1:HY:157:LEU:HA	1.92	0.41
1:AA:8:TYR:CE1	1:AB:55:GLU:OE1	2.69	0.41
1:AA:111:VAL:O	1:AA:111:VAL:HG23	2.21	0.41
1:AG:23:GLN:HB2	1:AH:144:GLN:HA	2.03	0.41
1:AK:97:ARG:HA	1:AK:112:ASP:HB3	2.02	0.41
1:AK:147:LEU:HD21	1:AL:138:ILE:HG21	2.03	0.41
1:AK:157:LEU:HA	1:AK:157:LEU:HD23	1.73	0.41
1:AL:153:VAL:HG13	1:AL:164:ILE:CD1	2.49	0.41
1:AM:71:SER:HA	1:AN:93:LYS:HD2	2.02	0.41
1:BE:129:VAL:CG1	1:BE:134:ARG:HH21	2.34	0.41
1:BF:2:TYR:HD2	1:BM:106:GLY:HA3	1.86	0.41
1:BG:101:THR:HA	1:BG:108:PRO:HA	2.03	0.41
1:BK:67:VAL:HG22	1:BK:83:SER:O	2.21	0.41
1:BL:120:THR:HB	1:BM:118:SER:HB2	2.03	0.41
1:BM:159:SER:HA	1:BP:51:LYS:HG2	2.02	0.41
1:BN:120:THR:HB	1:BO:118:SER:HB2	2.03	0.41
1:BS:120:THR:HB	1:BT:118:SER:HB2	2.03	0.41
1:BZ:145:LEU:HA	1:BZ:145:LEU:HD23	1.82	0.41
1:CC:8:TYR:CE1	1:CD:55:GLU:OE1	2.70	0.41
1:CC:144:GLN:OE1	1:CD:26:LEU:HD13	2.20	0.41
1:CD:126:PHE:HD2	1:CD:128:LEU:HG	1.86	0.41
1:CG:97:ARG:HA	1:CG:112:ASP:HB3	2.02	0.41
1:CH:97:ARG:HA	1:CH:112:ASP:HA	2.03	0.41
1:CK:135:LYS:O	1:CK:139:GLU:HG3	2.20	0.41
1:DF:44:TYR:OH	1:EV:166:GLY:N	2.47	0.41
1:DK:149:LYS:HE2	1:DK:149:LYS:HB2	1.94	0.41
1:DO:26:LEU:HA	1:DO:46:ASN:ND2	2.35	0.41
1:DR:157:LEU:CG	1:DR:164:ILE:HD11	2.49	0.41
1:DT:33:MET:CG	1:DT:45:MET:HB2	2.51	0.41
1:DW:120:THR:HB	1:DX:118:SER:HB2	2.03	0.41
1:EA:113:CYS:HB2	1:IB:124:ALA:CB	2.51	0.41
1:EC:124:ALA:O	1:EC:129:VAL:HG21	2.21	0.41
1:ED:145:LEU:HD23	1:ED:145:LEU:HA	1.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EG:26:LEU:O	1:EG:30:ALA:HB2	2.21	0.41
1:EJ:162:THR:HG22	1:EK:42:ALA:HB2	2.03	0.41
1:ER:55:GLU:OE2	1:ES:140:TRP:CE2	2.74	0.41
1:EV:50:PRO:HD2	1:EV:53:GLN:HB3	2.03	0.41
1:FG:43:THR:HG23	1:FG:58:THR:OG1	2.21	0.41
1:FG:144:GLN:OE1	1:FH:26:LEU:HD13	2.21	0.41
1:FQ:95:ILE:HG23	1:FQ:112:ASP:HB2	2.02	0.41
1:FR:67:VAL:HG21	1:FR:124:ALA:HB2	2.02	0.41
1:FR:149:LYS:HE2	1:FR:149:LYS:HB2	1.94	0.41
1:FT:26:LEU:O	1:FT:30:ALA:HB2	2.19	0.41
1:FY:157:LEU:HA	1:FY:157:LEU:HD23	1.82	0.41
1:GB:144:GLN:OE1	1:GC:26:LEU:HD13	2.21	0.41
1:GC:157:LEU:HD23	1:GC:157:LEU:HA	1.81	0.41
1:GD:87:LYS:HE3	1:GD:120:THR:CG2	2.50	0.41
1:GP:157:LEU:HD23	1:GP:157:LEU:HA	1.86	0.41
1:GZ:117:THR:HG22	1:GZ:118:SER:N	2.35	0.41
1:HP:117:THR:HG22	1:HQ:141:MET:HE3	2.03	0.41
1:HR:2:TYR:HD2	1:HY:106:GLY:HA3	1.86	0.41
1:IA:114:PRO:O	1:IA:115:LEU:HD12	2.21	0.41
1:IA:157:LEU:HD23	1:IA:157:LEU:HA	1.89	0.41
1:AA:19:ILE:HD12	1:AB:17:LEU:HD12	2.03	0.40
1:AB:153:VAL:HG13	1:AB:164:ILE:CD1	2.46	0.40
1:AK:144:GLN:OE1	1:AL:26:LEU:HD13	2.21	0.40
1:AL:87:LYS:HE3	1:AL:120:THR:CG2	2.51	0.40
1:AM:135:LYS:O	1:AM:139:GLU:HG3	2.21	0.40
1:AQ:120:THR:HB	1:AR:118:SER:HB2	2.03	0.40
1:AU:98:THR:OG1	1:HG:4:GLN:OE1	2.36	0.40
1:BA:67:VAL:HG21	1:BA:85:GLY:HA3	2.03	0.40
1:BB:2:TYR:CD2	1:CF:106:GLY:HA3	2.56	0.40
1:BE:97:ARG:HA	1:BE:112:ASP:HB3	2.03	0.40
1:BF:97:ARG:HA	1:BF:112:ASP:HB3	2.02	0.40
1:BF:137:THR:HA	1:BG:94:ARG:NH1	2.36	0.40
1:BH:135:LYS:O	1:BH:139:GLU:HG3	2.21	0.40
1:BO:114:PRO:O	1:BO:115:LEU:HD12	2.22	0.40
1:BT:26:LEU:O	1:BT:30:ALA:HB2	2.21	0.40
1:BT:145:LEU:HD23	1:BT:145:LEU:HA	1.78	0.40
1:CB:87:LYS:HE3	1:CB:120:THR:CG2	2.51	0.40
1:CF:95:ILE:CG2	1:CF:112:ASP:HB2	2.50	0.40
1:CG:114:PRO:HD3	1:CH:68:TYR:CE1	2.57	0.40
1:CN:74:GLN:OE1	1:CX:63:LYS:NZ	2.53	0.40
1:CV:137:THR:HA	1:CW:94:ARG:NH1	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CW:87:LYS:HE3	1:CW:120:THR:CG2	2.51	0.40
1:CW:153:VAL:HG13	1:CW:164:ILE:CD1	2.49	0.40
1:DD:4:GLN:HB3	1:DE:98:THR:HA	2.03	0.40
1:DD:110:ILE:HB	1:DE:78:PHE:CD1	2.57	0.40
1:DG:17:LEU:HD12	1:DH:19:ILE:HD12	2.03	0.40
1:DL:67:VAL:HG21	1:DL:85:GLY:HA3	2.03	0.40
1:DN:107:LEU:CD1	1:HF:111:VAL:HG21	2.51	0.40
1:DO:33:MET:CE	1:DO:45:MET:HB2	2.51	0.40
1:DQ:99:GLN:CB	1:DQ:110:ILE:HG12	2.51	0.40
1:DQ:102:ASP:OD1	1:DQ:104:ASN:N	2.51	0.40
1:DS:71:SER:HA	1:DT:93:LYS:HD2	2.02	0.40
1:DS:148:LEU:HD23	1:DS:148:LEU:HA	1.85	0.40
1:EG:29:LYS:O	1:EG:47:THR:OG1	2.29	0.40
1:EG:67:VAL:HG21	1:EG:85:GLY:HA3	2.03	0.40
1:EL:50:PRO:HD3	1:EM:7:GLY:O	2.20	0.40
1:EQ:75:ASN:HB3	1:EQ:78:PHE:CE2	2.56	0.40
1:ER:97:ARG:HA	1:ER:112:ASP:HB3	2.02	0.40
1:ES:99:GLN:HB2	1:ES:110:ILE:HG12	2.03	0.40
1:ET:4:GLN:HB3	1:EU:98:THR:HA	2.03	0.40
1:ET:110:ILE:HB	1:EU:78:PHE:CD1	2.56	0.40
1:ET:126:PHE:HD2	1:ET:128:LEU:HG	1.84	0.40
1:EU:135:LYS:O	1:EU:139:GLU:HG3	2.21	0.40
1:EU:145:LEU:HD23	1:EU:145:LEU:HA	1.71	0.40
1:EY:67:VAL:HG21	1:EY:124:ALA:HB2	2.03	0.40
1:EY:95:ILE:HG12	1:EZ:73:VAL:HG12	2.02	0.40
1:EY:98:THR:HG21	1:EZ:128:LEU:HD22	2.03	0.40
1:FC:117:THR:HG22	1:FC:118:SER:N	2.36	0.40
1:FF:87:LYS:HE3	1:FF:120:THR:HG21	2.03	0.40
1:FM:55:GLU:OE2	1:FN:140:TRP:CE2	2.74	0.40
1:FT:157:LEU:HA	1:FT:157:LEU:HD23	1.76	0.40
1:FY:145:LEU:HD23	1:FY:145:LEU:HA	1.88	0.40
1:FZ:26:LEU:HA	1:FZ:46:ASN:ND2	2.35	0.40
1:FZ:33:MET:CE	1:FZ:45:MET:HB2	2.51	0.40
1:GL:95:ILE:HG23	1:GL:112:ASP:HB2	2.02	0.40
1:GM:19:ILE:HD12	1:GN:17:LEU:HD12	2.03	0.40
1:GN:29:LYS:HB3	1:GN:47:THR:OG1	2.20	0.40
1:GS:23:GLN:HB2	1:GT:144:GLN:HA	2.03	0.40
1:GS:134:ARG:O	1:GS:137:THR:HG22	2.20	0.40
1:GX:153:VAL:HG13	1:GX:164:ILE:CD1	2.49	0.40
1:HH:19:ILE:HD12	1:HI:17:LEU:HD12	2.03	0.40
1:HH:97:ARG:HA	1:HH:112:ASP:HB3	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HH:145:LEU:HD23	1:HH:145:LEU:HA	1.81	0.40
1:HI:157:LEU:HD23	1:HI:157:LEU:HA	1.81	0.40
1:HJ:98:THR:HG21	1:HK:128:LEU:HD22	2.03	0.40
1:HR:144:GLN:OE1	1:HS:26:LEU:HD13	2.21	0.40
1:HS:87:LYS:HE3	1:HS:120:THR:CG2	2.51	0.40
1:HS:101:THR:HA	1:HS:108:PRO:HA	2.03	0.40
1:HU:33:MET:CG	1:HU:45:MET:HB2	2.51	0.40
1:HY:97:ARG:HA	1:HY:112:ASP:HA	2.03	0.40
1:HY:159:SER:HA	1:IB:51:LYS:HG2	2.03	0.40
1:IA:135:LYS:O	1:IA:139:GLU:HG3	2.21	0.40
1:AC:98:THR:HG21	1:AD:128:LEU:HD22	2.03	0.40
1:AF:101:THR:HG22	1:AF:108:PRO:HB3	2.04	0.40
1:AG:157:LEU:HD23	1:AG:157:LEU:HA	1.74	0.40
1:AI:162:THR:HG22	1:AJ:42:ALA:HB2	2.03	0.40
1:AM:59:PHE:CD1	1:AM:90:ILE:HG12	2.55	0.40
1:BD:2:TYR:HD2	1:FO:106:GLY:HA3	1.86	0.40
1:BI:97:ARG:HB2	1:BI:112:ASP:HB3	2.02	0.40
1:BP:135:LYS:O	1:BP:139:GLU:HG3	2.20	0.40
1:BU:17:LEU:HD12	1:BV:19:ILE:HD12	2.03	0.40
1:BY:33:MET:CE	1:BY:45:MET:HB2	2.51	0.40
1:CA:97:ARG:HA	1:CA:112:ASP:HB3	2.02	0.40
1:CC:71:SER:HA	1:CD:93:LYS:HD2	2.02	0.40
1:CE:95:ILE:CG2	1:CE:112:ASP:HB2	2.52	0.40
1:CF:75:ASN:HB3	1:CF:78:PHE:CE2	2.56	0.40
1:CH:99:GLN:HB2	1:CH:110:ILE:HG12	2.03	0.40
1:CJ:67:VAL:HG11	1:CJ:124:ALA:HA	2.04	0.40
1:CN:33:MET:CE	1:CN:45:MET:HB2	2.51	0.40
1:CN:44:TYR:OH	1:CO:166:GLY:N	2.54	0.40
1:CN:98:THR:HG21	1:CO:128:LEU:HD22	2.03	0.40
1:CO:84:LYS:HG2	1:CQ:75:ASN:OD1	2.20	0.40
1:CR:117:THR:HG22	1:CR:118:SER:N	2.36	0.40
1:CS:138:ILE:O	1:CS:142:ILE:HG13	2.22	0.40
1:CV:164:ILE:HD13	1:CV:164:ILE:HG21	1.85	0.40
1:CZ:113:CYS:HB2	1:DA:124:ALA:CB	2.52	0.40
1:DA:67:VAL:HG22	1:DA:83:SER:O	2.21	0.40
1:DC:159:SER:HA	1:DF:51:LYS:HG2	2.02	0.40
1:DG:111:VAL:O	1:DG:111:VAL:HG23	2.21	0.40
1:DI:120:THR:HB	1:DJ:118:SER:HB2	2.03	0.40
1:DJ:26:LEU:O	1:DJ:30:ALA:HB2	2.21	0.40
1:DK:162:THR:CB	1:DM:34:ASP:HB3	2.40	0.40
1:DM:23:GLN:HB2	1:DN:144:GLN:HA	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DX:159:SER:HA	1:EA:51:LYS:HG2	2.02	0.40
1:ED:33:MET:CE	1:ED:45:MET:HB2	2.51	0.40
1:EF:17:LEU:HD12	1:EG:19:ILE:HD12	2.03	0.40
1:EH:124:ALA:HB3	1:EI:113:CYS:HB3	2.04	0.40
1:EI:138:ILE:O	1:EI:142:ILE:HG13	2.22	0.40
1:EJ:26:LEU:HA	1:EJ:46:ASN:ND2	2.36	0.40
1:EU:26:LEU:HD23	1:EU:30:ALA:HB2	2.03	0.40
1:EW:29:LYS:O	1:EW:47:THR:OG1	2.26	0.40
1:FK:113:CYS:HB2	1:FL:124:ALA:CB	2.52	0.40
1:FK:134:ARG:O	1:FK:137:THR:HG22	2.20	0.40
1:FL:87:LYS:HE3	1:FL:120:THR:CG2	2.51	0.40
1:GB:33:MET:HE1	1:GB:45:MET:HB2	2.02	0.40
1:GI:99:GLN:HB2	1:GI:110:ILE:HG12	2.03	0.40
1:GJ:4:GLN:HB3	1:GK:98:THR:HA	2.03	0.40
1:GN:157:LEU:HD23	1:GN:157:LEU:HA	1.80	0.40
1:GW:43:THR:HG23	1:GW:58:THR:OG1	2.21	0.40
1:GW:82:SER:HB3	1:HC:75:ASN:HB2	2.03	0.40
1:GW:99:GLN:CB	1:GW:110:ILE:HG12	2.51	0.40
1:GW:144:GLN:OE1	1:GX:26:LEU:HD13	2.21	0.40
1:HA:95:ILE:CG2	1:HA:112:ASP:HB2	2.52	0.40
1:HD:97:ARG:HA	1:HD:112:ASP:HA	2.03	0.40
1:HF:26:LEU:HD23	1:HF:30:ALA:HB2	2.03	0.40
1:HH:102:ASP:OD1	1:HH:104:ASN:N	2.51	0.40
1:HP:33:MET:CE	1:HP:45:MET:HB2	2.51	0.40
1:HQ:145:LEU:HD23	1:HQ:145:LEU:HA	1.82	0.40
1:HR:43:THR:HG23	1:HR:58:THR:OG1	2.21	0.40
1:HT:135:LYS:O	1:HT:139:GLU:HG3	2.22	0.40
1:HV:113:CYS:HB2	1:HW:124:ALA:CB	2.52	0.40
1:HY:87:LYS:HE3	1:HY:120:THR:CG2	2.52	0.40
1:AB:141:MET:HB2	1:AB:141:MET:HE2	1.97	0.40
1:AC:97:ARG:HA	1:AC:112:ASP:HB3	2.02	0.40
1:AJ:97:ARG:HA	1:AJ:112:ASP:HB3	2.03	0.40
1:AM:148:LEU:HD23	1:AM:148:LEU:HA	1.85	0.40
1:AP:87:LYS:HE3	1:AP:120:THR:CG2	2.51	0.40
1:AU:135:LYS:O	1:AU:139:GLU:HG3	2.20	0.40
1:AU:144:GLN:NE2	1:HG:23:GLN:HA	2.36	0.40
1:AU:165:TYR:OH	1:HG:23:GLN:HG2	2.21	0.40
1:AW:145:LEU:HD23	1:AW:145:LEU:HA	1.82	0.40
1:AX:67:VAL:HG21	1:AX:124:ALA:HB2	2.03	0.40
1:AZ:157:LEU:HD23	1:AZ:157:LEU:HA	1.80	0.40
1:BA:101:THR:HG22	1:BA:108:PRO:HB3	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BC:145:LEU:HA	1:BC:145:LEU:HD23	1.88	0.40
1:BJ:95:ILE:CG2	1:BJ:112:ASP:HB2	2.52	0.40
1:BJ:126:PHE:CE2	1:BJ:128:LEU:HG	2.55	0.40
1:BJ:166:GLY:N	1:BK:44:TYR:OH	2.53	0.40
1:BK:87:LYS:HE3	1:BK:120:THR:CG2	2.51	0.40
1:BS:97:ARG:HA	1:BS:112:ASP:HB3	2.02	0.40
1:BU:26:LEU:O	1:BU:30:ALA:HB2	2.22	0.40
1:BW:37:GLN:HG3	1:BW:58:THR:HG21	2.02	0.40
1:BY:26:LEU:HA	1:BY:46:ASN:ND2	2.36	0.40
1:BZ:129:VAL:HG12	1:BZ:134:ARG:NH2	2.35	0.40
1:CA:17:LEU:HD12	1:CB:19:ILE:HD12	2.04	0.40
1:CE:117:THR:HG22	1:CE:118:SER:N	2.37	0.40
1:CF:87:LYS:HE3	1:CF:120:THR:CG2	2.51	0.40
1:CG:120:THR:HB	1:CH:118:SER:HB2	2.03	0.40
1:CN:157:LEU:HA	1:CN:157:LEU:HD23	1.76	0.40
1:CO:26:LEU:O	1:CO:30:ALA:HB2	2.21	0.40
1:CR:23:GLN:HB2	1:CS:144:GLN:HA	2.03	0.40
1:CZ:19:ILE:HD12	1:DA:17:LEU:HD12	2.03	0.40
1:DF:57:ILE:HB	1:EV:140:TRP:HH2	1.86	0.40
1:DM:117:THR:HG22	1:DM:118:SER:N	2.36	0.40
1:DN:29:LYS:O	1:DN:47:THR:OG1	2.22	0.40
1:DN:138:ILE:O	1:DN:142:ILE:HG13	2.21	0.40
1:DQ:43:THR:HG23	1:DQ:58:THR:OG1	2.21	0.40
1:DU:95:ILE:CG2	1:DU:112:ASP:HB2	2.51	0.40
1:DW:103:VAL:HG13	1:DW:105:THR:O	2.20	0.40
1:DZ:81:SER:OG	1:DZ:126:PHE:HE1	2.04	0.40
1:EB:86:THR:HG21	1:FJ:51:LYS:HE2	2.03	0.40
1:EF:23:GLN:HB2	1:EG:144:GLN:HA	2.02	0.40
1:EL:17:LEU:HD12	1:EM:19:ILE:HD12	2.04	0.40
1:ES:87:LYS:HE3	1:ES:120:THR:CG2	2.52	0.40
1:EU:114:PRO:O	1:EU:115:LEU:HD12	2.21	0.40
1:EW:51:LYS:CE	1:FR:155:SER:OG	2.68	0.40
1:EX:124:ALA:O	1:EX:129:VAL:HG21	2.21	0.40
1:EY:33:MET:CE	1:EY:45:MET:HB2	2.51	0.40
1:EY:120:THR:HB	1:EZ:118:SER:HB2	2.04	0.40
1:FP:26:LEU:HD23	1:FP:30:ALA:HB2	2.03	0.40
1:FP:81:SER:OG	1:FP:126:PHE:HE1	2.04	0.40
1:FP:97:ARG:HB2	1:FP:112:ASP:HB3	2.04	0.40
1:FS:75:ASN:OD1	1:GN:125:ASP:O	2.39	0.40
1:FV:26:LEU:O	1:FV:30:ALA:HB2	2.22	0.40
1:FW:26:LEU:O	1:FW:30:ALA:HB2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GE:97:ARG:HB2	1:GE:112:ASP:HB3	2.02	0.40
1:GO:44:TYR:OH	1:GP:166:GLY:N	2.54	0.40
1:GO:67:VAL:HG21	1:GO:124:ALA:HB2	2.03	0.40
1:GU:33:MET:CE	1:GU:45:MET:HB2	2.51	0.40
1:GU:72:ASN:O	1:GU:72:ASN:ND2	2.43	0.40
1:HJ:44:TYR:OH	1:HK:166:GLY:N	2.53	0.40
1:HO:29:LYS:HB3	1:HO:47:THR:OG1	2.22	0.40
1:HW:67:VAL:HG22	1:HW:83:SER:O	2.21	0.40
1:HX:157:LEU:HD23	1:HX:157:LEU:HA	1.93	0.40
1:IA:67:VAL:HG11	1:IA:124:ALA:HA	2.04	0.40
1:AB:112:ASP:OD2	1:AB:112:ASP:N	2.52	0.40
1:AE:33:MET:HE1	1:AE:45:MET:HB2	2.04	0.40
1:AI:44:TYR:OH	1:AJ:166:GLY:N	2.54	0.40
1:AK:2:TYR:HD2	1:AR:106:GLY:HA3	1.86	0.40
1:AO:145:LEU:HD23	1:AO:145:LEU:HA	1.87	0.40
1:AQ:145:LEU:HD23	1:AQ:145:LEU:HA	1.84	0.40
1:AT:97:ARG:HB2	1:AT:112:ASP:HB3	2.04	0.40
1:AT:114:PRO:O	1:AT:115:LEU:HD12	2.21	0.40
1:AU:78:PHE:HB3	1:HG:112:ASP:OD1	2.21	0.40
1:AX:157:LEU:HD23	1:AX:157:LEU:HA	1.76	0.40
1:AZ:17:LEU:HD12	1:BA:19:ILE:HD12	2.03	0.40
1:AZ:26:LEU:O	1:AZ:30:ALA:HB2	2.22	0.40
1:BB:124:ALA:HB3	1:BC:113:CYS:HB3	2.04	0.40
1:BG:1:SER:O	1:BG:1:SER:OG	2.33	0.40
1:BH:71:SER:HA	1:BI:93:LYS:HD2	2.02	0.40
1:BH:117:THR:HG22	1:BH:118:SER:N	2.37	0.40
1:BP:95:ILE:HG23	1:BP:112:ASP:HB2	2.02	0.40
1:BP:98:THR:HG23	1:GL:2:TYR:CD1	2.56	0.40
1:BP:124:ALA:HB3	1:GL:113:CYS:HB2	2.03	0.40
1:BR:74:GLN:OE1	1:CM:127:THR:HA	2.22	0.40
1:BT:29:LYS:O	1:BT:47:THR:OG1	2.30	0.40
1:BU:98:THR:HG23	1:BV:4:GLN:HB3	2.04	0.40
1:BW:124:ALA:HB3	1:BX:113:CYS:HB3	2.04	0.40
1:BX:87:LYS:HE3	1:BX:120:THR:HG21	2.04	0.40
1:CA:147:LEU:HD21	1:CB:138:ILE:HG21	2.03	0.40
1:CC:29:LYS:O	1:CC:47:THR:OG1	2.31	0.40
1:CC:53:GLN:OE1	1:CC:97:ARG:HD2	2.22	0.40
1:CG:51:LYS:CE	1:CI:158:CYS:HB2	2.50	0.40
1:CI:110:ILE:HB	1:CJ:78:PHE:CD1	2.57	0.40
1:CK:50:PRO:HD2	1:CK:53:GLN:HB3	2.03	0.40
1:CK:95:ILE:HG23	1:CK:112:ASP:HB2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CL:23:GLN:HB2	1:CM:144:GLN:HA	2.04	0.40
1:CL:102:ASP:OD1	1:CL:104:ASN:N	2.51	0.40
1:CN:23:GLN:HB2	1:CO:144:GLN:HA	2.04	0.40
1:CR:124:ALA:HB3	1:CS:113:CYS:HB3	2.03	0.40
1:CU:129:VAL:CG1	1:CU:134:ARG:HH21	2.34	0.40
1:CW:51:LYS:NZ	1:DA:159:SER:OG	2.50	0.40
1:CX:53:GLN:OE1	1:CX:97:ARG:HD2	2.22	0.40
1:CZ:29:LYS:O	1:CZ:47:THR:OG1	2.31	0.40
1:DE:26:LEU:HD23	1:DE:30:ALA:HB2	2.03	0.40
1:DE:114:PRO:O	1:DE:115:LEU:HD12	2.21	0.40
1:DF:50:PRO:HD2	1:DF:53:GLN:HB3	2.03	0.40
1:DJ:1:SER:O	1:DJ:1:SER:OG	2.38	0.40
1:DM:124:ALA:HB3	1:DN:113:CYS:HB3	2.03	0.40
1:DQ:33:MET:HG2	1:DQ:34:ASP:N	2.37	0.40
1:DU:134:ARG:O	1:DU:137:THR:HG22	2.21	0.40
1:DV:75:ASN:HB3	1:DV:78:PHE:CE2	2.56	0.40
1:DV:141:MET:HB2	1:DV:141:MET:HE2	1.94	0.40
1:DY:120:THR:HB	1:DZ:118:SER:HB2	2.03	0.40
1:DY:126:PHE:HD2	1:DY:128:LEU:HG	1.84	0.40
1:EB:53:GLN:NE2	1:EB:97:ARG:HD2	2.37	0.40
1:EB:111:VAL:O	1:EB:111:VAL:HG23	2.21	0.40
1:ED:67:VAL:HG21	1:ED:124:ALA:HB2	2.03	0.40
1:EF:162:THR:CB	1:EH:34:ASP:HB3	2.40	0.40
1:EH:128:LEU:HD22	1:EI:98:THR:HG21	2.04	0.40
1:EK:129:VAL:CG1	1:EK:134:ARG:HH21	2.34	0.40
1:EL:2:TYR:HD2	1:ES:106:GLY:HA3	1.86	0.40
1:EN:117:THR:HG22	1:EN:118:SER:N	2.37	0.40
1:EN:135:LYS:O	1:EN:139:GLU:HG3	2.21	0.40
1:EQ:87:LYS:HE3	1:EQ:120:THR:CG2	2.51	0.40
1:ET:145:LEU:HD23	1:ET:145:LEU:HA	1.79	0.40
1:EU:67:VAL:HG11	1:EU:124:ALA:HA	2.04	0.40
1:EY:23:GLN:HB2	1:EZ:144:GLN:HA	2.04	0.40
1:FD:87:LYS:HE3	1:FD:120:THR:HG21	2.04	0.40
1:FI:135:LYS:O	1:FI:139:GLU:HG3	2.21	0.40
1:FO:110:ILE:HB	1:FP:78:PHE:CD1	2.57	0.40
1:FP:101:THR:HA	1:FP:108:PRO:HA	2.02	0.40
1:FR:2:TYR:HD2	1:GZ:106:GLY:HA3	1.85	0.40
1:FR:23:GLN:HB2	1:FS:144:GLN:HA	2.04	0.40
1:FR:53:GLN:NE2	1:FR:97:ARG:HD2	2.37	0.40
1:FV:141:MET:HB2	1:FV:141:MET:HE2	2.00	0.40
1:GC:157:LEU:CG	1:GC:164:ILE:HD11	2.49	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GE:126:PHE:HD2	1:GE:128:LEU:HG	1.86	0.40
1:GH:55:GLU:OE2	1:GI:140:TRP:CE2	2.74	0.40
1:GK:26:LEU:HD23	1:GK:30:ALA:HB2	2.03	0.40
1:GK:97:ARG:HB2	1:GK:112:ASP:HB3	2.04	0.40
1:GM:17:LEU:HD12	1:GN:19:ILE:HD12	2.03	0.40
1:GM:145:LEU:HD23	1:GM:145:LEU:HA	1.81	0.40
1:GO:97:ARG:HA	1:GO:112:ASP:HB3	2.02	0.40
1:GP:145:LEU:HD23	1:GP:145:LEU:HA	1.78	0.40
1:GT:138:ILE:O	1:GT:142:ILE:HG13	2.22	0.40
1:GU:162:THR:HG22	1:GV:42:ALA:HB2	2.03	0.40
1:GY:8:TYR:CE1	1:GZ:55:GLU:OE1	2.70	0.40
1:GY:53:GLN:OE1	1:GY:97:ARG:HD2	2.22	0.40
1:HD:99:GLN:HB2	1:HD:110:ILE:HG12	2.03	0.40
1:HF:101:THR:HA	1:HF:108:PRO:HA	2.02	0.40
1:HI:164:ILE:HD13	1:HI:164:ILE:HG21	1.83	0.40
1:HJ:67:VAL:HG21	1:HJ:124:ALA:HB2	2.03	0.40
1:HM:67:VAL:HG21	1:HM:85:GLY:HA3	2.03	0.40
1:HR:147:LEU:HD21	1:HS:138:ILE:HG21	2.03	0.40
1:IA:97:ARG:HB2	1:IA:112:ASP:HB3	2.04	0.40
1:AA:102:ASP:OD1	1:AA:104:ASN:N	2.51	0.40
1:AD:86:THR:HG22	1:AD:87:LYS:N	2.37	0.40
1:AJ:76:GLN:NE2	1:AJ:78:PHE:HE2	2.20	0.40
1:AK:33:MET:HG2	1:AK:34:ASP:N	2.37	0.40
1:AK:33:MET:HE3	1:AK:45:MET:HB2	2.03	0.40
1:AS:110:ILE:HB	1:AT:78:PHE:CD1	2.57	0.40
1:AU:154:TRP:CZ2	1:HG:135:LYS:HD2	2.56	0.40
1:AW:75:ASN:CB	1:BR:82:SER:HB2	2.51	0.40
1:AY:26:LEU:O	1:AY:30:ALA:HB2	2.21	0.40
1:BD:33:MET:CE	1:BD:45:MET:HB2	2.51	0.40
1:BF:145:LEU:HA	1:BF:145:LEU:HD23	1.79	0.40
1:BH:102:ASP:HB3	1:BH:105:THR:O	2.21	0.40
1:BL:55:GLU:OE2	1:BM:140:TRP:CE2	2.74	0.40
1:BN:126:PHE:HD2	1:BN:128:LEU:HG	1.84	0.40
1:BO:157:LEU:HA	1:BO:157:LEU:HD23	1.89	0.40
1:BS:32:TYR:HA	1:BS:44:TYR:CD1	2.57	0.40
1:BT:1:SER:O	1:BT:1:SER:OG	2.38	0.40
1:BV:26:LEU:O	1:BV:30:ALA:HB2	2.21	0.40
1:BV:145:LEU:HD23	1:BV:145:LEU:HA	1.73	0.40
1:BY:44:TYR:OH	1:BZ:166:GLY:N	2.54	0.40
1:CA:144:GLN:OE1	1:CB:26:LEU:HD13	2.21	0.40
1:CB:145:LEU:HA	1:CB:145:LEU:HD23	1.80	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CF:67:VAL:HG22	1:CF:83:SER:O	2.21	0.40
1:CJ:114:PRO:O	1:CJ:115:LEU:HD12	2.21	0.40
1:CK:43:THR:HA	1:CK:58:THR:HG23	2.02	0.40
1:CL:19:ILE:HD12	1:CM:17:LEU:HD12	2.03	0.40
1:CM:74:GLN:CD	1:DH:126:PHE:O	2.60	0.40
1:CR:114:PRO:HG2	1:CS:67:VAL:CG1	2.45	0.40
1:CR:123:PHE:HE2	1:CS:158:CYS:HG	1.66	0.40
1:CV:2:TYR:HD2	1:DC:106:GLY:HA3	1.86	0.40
1:CV:43:THR:HG23	1:CV:58:THR:OG1	2.21	0.40
1:CV:145:LEU:HD23	1:CV:145:LEU:HA	1.79	0.40
1:DC:87:LYS:HE3	1:DC:120:THR:CG2	2.52	0.40
1:DG:67:VAL:HG21	1:DG:124:ALA:HB2	2.02	0.40
1:DI:67:VAL:HG21	1:DI:124:ALA:HB2	2.03	0.40
1:DK:26:LEU:O	1:DK:30:ALA:HB2	2.22	0.40
1:DO:162:THR:HG22	1:DP:42:ALA:HB2	2.03	0.40
1:DW:114:PRO:HD3	1:DX:68:TYR:CE1	2.57	0.40
1:DY:110:ILE:HB	1:DZ:78:PHE:CD1	2.56	0.40
1:EE:26:LEU:O	1:EE:30:ALA:HB2	2.21	0.40
1:EN:99:GLN:HB3	1:EN:110:ILE:HG23	2.03	0.40
1:EQ:47:THR:HG21	1:HO:161:VAL:CG2	2.51	0.40
1:EQ:67:VAL:HG22	1:EQ:83:SER:O	2.21	0.40
1:ER:103:VAL:HG13	1:ER:105:THR:O	2.20	0.40
1:FB:26:LEU:O	1:FB:30:ALA:HB2	2.21	0.40
1:FG:33:MET:HG2	1:FG:34:ASP:N	2.37	0.40
1:FG:82:SER:HB3	1:FM:75:ASN:HB2	2.03	0.40
1:FJ:33:MET:CG	1:FJ:45:MET:HB2	2.51	0.40
1:FM:114:PRO:HD3	1:FN:68:TYR:CE1	2.57	0.40
1:FM:117:THR:HG22	1:FM:118:SER:N	2.37	0.40
1:FN:99:GLN:HB2	1:FN:110:ILE:HG12	2.03	0.40
1:FR:111:VAL:HG23	1:FR:111:VAL:O	2.21	0.40
1:FT:98:THR:HG21	1:FU:128:LEU:HD22	2.03	0.40
1:FW:101:THR:HG22	1:FW:108:PRO:HB3	2.04	0.40
1:GD:102:ASP:HB3	1:GD:105:THR:O	2.21	0.40
1:GD:120:THR:O	1:GE:117:THR:HG23	2.22	0.40
1:GI:87:LYS:HE3	1:GI:120:THR:CG2	2.52	0.40
1:GM:157:LEU:HD23	1:GM:157:LEU:HA	1.82	0.40
1:GP:164:ILE:HD13	1:GP:164:ILE:HG21	1.60	0.40
1:GR:67:VAL:HG21	1:GR:85:GLY:HA3	2.03	0.40
1:GU:26:LEU:HA	1:GU:46:ASN:ND2	2.36	0.40
1:GV:76:GLN:NE2	1:GV:78:PHE:HE2	2.20	0.40
1:GW:17:LEU:HD12	1:GX:19:ILE:HD12	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GY:102:ASP:HB3	1:GY:105:THR:O	2.21	0.40
1:GY:135:LYS:O	1:GY:139:GLU:HG3	2.21	0.40
1:HA:166:GLY:N	1:HB:44:TYR:OH	2.53	0.40
1:HH:53:GLN:NE2	1:HH:97:ARG:HD2	2.37	0.40
1:HJ:23:GLN:HB2	1:HK:144:GLN:HA	2.04	0.40
1:HN:37:GLN:HG3	1:HN:58:THR:HG21	2.02	0.40
1:HN:124:ALA:HB3	1:HO:113:CYS:HB3	2.03	0.40
1:HQ:129:VAL:CG1	1:HQ:134:ARG:HH21	2.34	0.40
1:HT:53:GLN:OE1	1:HT:97:ARG:HD2	2.22	0.40
1:HZ:120:THR:HB	1:IA:118:SER:HB2	2.03	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:CD:14:LYS:NZ	1:FW:12:THR:OG1[1_455]	2.03	0.17
1:CJ:9:THR:OG1	1:DC:13:GLU:OE2[2_444]	2.07	0.13
1:BU:18:GLU:OE1	1:GD:18:GLU:OE1[1_455]	2.18	0.02

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	164/166 (99%)	161 (98%)	3 (2%)	0	100	100
1	AB	164/166 (99%)	160 (98%)	4 (2%)	0	100	100
1	AC	164/166 (99%)	163 (99%)	1 (1%)	0	100	100
1	AD	164/166 (99%)	155 (94%)	9 (6%)	0	100	100
1	AE	164/166 (99%)	161 (98%)	3 (2%)	0	100	100
1	AF	164/166 (99%)	159 (97%)	5 (3%)	0	100	100
1	AG	164/166 (99%)	163 (99%)	1 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	AH	164/166 (99%)	157 (96%)	7 (4%)	0	100	100
1	AI	164/166 (99%)	162 (99%)	2 (1%)	0	100	100
1	AJ	164/166 (99%)	156 (95%)	8 (5%)	0	100	100
1	AK	164/166 (99%)	161 (98%)	3 (2%)	0	100	100
1	AL	164/166 (99%)	159 (97%)	5 (3%)	0	100	100
1	AM	164/166 (99%)	164 (100%)	0	0	100	100
1	AN	164/166 (99%)	164 (100%)	0	0	100	100
1	AO	164/166 (99%)	164 (100%)	0	0	100	100
1	AP	164/166 (99%)	163 (99%)	1 (1%)	0	100	100
1	AQ	164/166 (99%)	163 (99%)	1 (1%)	0	100	100
1	AR	164/166 (99%)	164 (100%)	0	0	100	100
1	AS	164/166 (99%)	164 (100%)	0	0	100	100
1	AT	164/166 (99%)	164 (100%)	0	0	100	100
1	AU	164/166 (99%)	164 (100%)	0	0	100	100
1	AV	164/166 (99%)	161 (98%)	3 (2%)	0	100	100
1	AW	164/166 (99%)	160 (98%)	4 (2%)	0	100	100
1	AX	164/166 (99%)	163 (99%)	1 (1%)	0	100	100
1	AY	164/166 (99%)	155 (94%)	9 (6%)	0	100	100
1	AZ	164/166 (99%)	161 (98%)	3 (2%)	0	100	100
1	BA	164/166 (99%)	159 (97%)	5 (3%)	0	100	100
1	BB	164/166 (99%)	163 (99%)	1 (1%)	0	100	100
1	BC	164/166 (99%)	157 (96%)	7 (4%)	0	100	100
1	BD	164/166 (99%)	162 (99%)	2 (1%)	0	100	100
1	BE	164/166 (99%)	156 (95%)	8 (5%)	0	100	100
1	BF	164/166 (99%)	161 (98%)	3 (2%)	0	100	100
1	BG	164/166 (99%)	159 (97%)	5 (3%)	0	100	100
1	BH	164/166 (99%)	164 (100%)	0	0	100	100
1	BI	164/166 (99%)	164 (100%)	0	0	100	100
1	BJ	164/166 (99%)	164 (100%)	0	0	100	100
1	BK	164/166 (99%)	163 (99%)	1 (1%)	0	100	100
1	BL	164/166 (99%)	163 (99%)	1 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	BM	164/166 (99%)	164 (100%)	0	0	100	100
1	BN	164/166 (99%)	164 (100%)	0	0	100	100
1	BO	164/166 (99%)	164 (100%)	0	0	100	100
1	BP	164/166 (99%)	164 (100%)	0	0	100	100
1	BQ	164/166 (99%)	161 (98%)	3 (2%)	0	100	100
1	BR	164/166 (99%)	160 (98%)	4 (2%)	0	100	100
1	BS	164/166 (99%)	163 (99%)	1 (1%)	0	100	100
1	BT	164/166 (99%)	155 (94%)	9 (6%)	0	100	100
1	BU	164/166 (99%)	161 (98%)	3 (2%)	0	100	100
1	BV	164/166 (99%)	159 (97%)	5 (3%)	0	100	100
1	BW	164/166 (99%)	163 (99%)	1 (1%)	0	100	100
1	BX	164/166 (99%)	157 (96%)	7 (4%)	0	100	100
1	BY	164/166 (99%)	162 (99%)	2 (1%)	0	100	100
1	BZ	164/166 (99%)	156 (95%)	8 (5%)	0	100	100
1	CA	164/166 (99%)	161 (98%)	3 (2%)	0	100	100
1	CB	164/166 (99%)	158 (96%)	5 (3%)	1 (1%)	25	64
1	CC	164/166 (99%)	164 (100%)	0	0	100	100
1	CD	164/166 (99%)	164 (100%)	0	0	100	100
1	CE	164/166 (99%)	164 (100%)	0	0	100	100
1	CF	164/166 (99%)	163 (99%)	1 (1%)	0	100	100
1	CG	164/166 (99%)	163 (99%)	1 (1%)	0	100	100
1	CH	164/166 (99%)	164 (100%)	0	0	100	100
1	CI	164/166 (99%)	164 (100%)	0	0	100	100
1	CJ	164/166 (99%)	164 (100%)	0	0	100	100
1	CK	164/166 (99%)	164 (100%)	0	0	100	100
1	CL	164/166 (99%)	161 (98%)	3 (2%)	0	100	100
1	CM	164/166 (99%)	160 (98%)	4 (2%)	0	100	100
1	CN	164/166 (99%)	163 (99%)	1 (1%)	0	100	100
1	CO	164/166 (99%)	155 (94%)	9 (6%)	0	100	100
1	CP	164/166 (99%)	161 (98%)	3 (2%)	0	100	100
1	CQ	164/166 (99%)	159 (97%)	5 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	CR	164/166 (99%)	163 (99%)	1 (1%)	0	100	100
1	CS	164/166 (99%)	157 (96%)	7 (4%)	0	100	100
1	CT	164/166 (99%)	162 (99%)	2 (1%)	0	100	100
1	CU	164/166 (99%)	156 (95%)	8 (5%)	0	100	100
1	CV	164/166 (99%)	161 (98%)	3 (2%)	0	100	100
1	CW	164/166 (99%)	158 (96%)	6 (4%)	0	100	100
1	CX	164/166 (99%)	164 (100%)	0	0	100	100
1	CY	164/166 (99%)	164 (100%)	0	0	100	100
1	CZ	164/166 (99%)	164 (100%)	0	0	100	100
1	DA	164/166 (99%)	163 (99%)	1 (1%)	0	100	100
1	DB	164/166 (99%)	163 (99%)	1 (1%)	0	100	100
1	DC	164/166 (99%)	164 (100%)	0	0	100	100
1	DD	164/166 (99%)	164 (100%)	0	0	100	100
1	DE	164/166 (99%)	164 (100%)	0	0	100	100
1	DF	164/166 (99%)	164 (100%)	0	0	100	100
1	DG	164/166 (99%)	161 (98%)	3 (2%)	0	100	100
1	DH	164/166 (99%)	160 (98%)	4 (2%)	0	100	100
1	DI	164/166 (99%)	163 (99%)	1 (1%)	0	100	100
1	DJ	164/166 (99%)	155 (94%)	9 (6%)	0	100	100
1	DK	164/166 (99%)	161 (98%)	3 (2%)	0	100	100
1	DL	164/166 (99%)	158 (96%)	6 (4%)	0	100	100
1	DM	164/166 (99%)	163 (99%)	1 (1%)	0	100	100
1	DN	164/166 (99%)	157 (96%)	7 (4%)	0	100	100
1	DO	164/166 (99%)	162 (99%)	2 (1%)	0	100	100
1	DP	164/166 (99%)	156 (95%)	8 (5%)	0	100	100
1	DQ	164/166 (99%)	161 (98%)	3 (2%)	0	100	100
1	DR	164/166 (99%)	158 (96%)	6 (4%)	0	100	100
1	DS	164/166 (99%)	164 (100%)	0	0	100	100
1	DT	164/166 (99%)	164 (100%)	0	0	100	100
1	DU	164/166 (99%)	164 (100%)	0	0	100	100
1	DV	164/166 (99%)	163 (99%)	1 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	DW	164/166 (99%)	163 (99%)	1 (1%)	0	100	100
1	DX	164/166 (99%)	164 (100%)	0	0	100	100
1	DY	164/166 (99%)	164 (100%)	0	0	100	100
1	DZ	164/166 (99%)	164 (100%)	0	0	100	100
1	EA	164/166 (99%)	164 (100%)	0	0	100	100
1	EB	164/166 (99%)	161 (98%)	3 (2%)	0	100	100
1	EC	164/166 (99%)	160 (98%)	4 (2%)	0	100	100
1	ED	164/166 (99%)	163 (99%)	1 (1%)	0	100	100
1	EE	164/166 (99%)	155 (94%)	9 (6%)	0	100	100
1	EF	164/166 (99%)	161 (98%)	3 (2%)	0	100	100
1	EG	164/166 (99%)	159 (97%)	5 (3%)	0	100	100
1	EH	164/166 (99%)	163 (99%)	1 (1%)	0	100	100
1	EI	164/166 (99%)	157 (96%)	7 (4%)	0	100	100
1	EJ	164/166 (99%)	162 (99%)	2 (1%)	0	100	100
1	EK	164/166 (99%)	156 (95%)	8 (5%)	0	100	100
1	EL	164/166 (99%)	161 (98%)	3 (2%)	0	100	100
1	EM	164/166 (99%)	159 (97%)	4 (2%)	1 (1%)	25	64
1	EN	164/166 (99%)	164 (100%)	0	0	100	100
1	EO	164/166 (99%)	164 (100%)	0	0	100	100
1	EP	164/166 (99%)	164 (100%)	0	0	100	100
1	EQ	164/166 (99%)	163 (99%)	1 (1%)	0	100	100
1	ER	164/166 (99%)	163 (99%)	1 (1%)	0	100	100
1	ES	164/166 (99%)	164 (100%)	0	0	100	100
1	ET	164/166 (99%)	164 (100%)	0	0	100	100
1	EU	164/166 (99%)	164 (100%)	0	0	100	100
1	EV	164/166 (99%)	164 (100%)	0	0	100	100
1	EW	164/166 (99%)	161 (98%)	3 (2%)	0	100	100
1	EX	164/166 (99%)	160 (98%)	4 (2%)	0	100	100
1	EY	164/166 (99%)	163 (99%)	1 (1%)	0	100	100
1	EZ	164/166 (99%)	155 (94%)	9 (6%)	0	100	100
1	FA	164/166 (99%)	161 (98%)	3 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	FB	164/166 (99%)	159 (97%)	5 (3%)	0	100	100
1	FC	164/166 (99%)	163 (99%)	1 (1%)	0	100	100
1	FD	164/166 (99%)	157 (96%)	7 (4%)	0	100	100
1	FE	164/166 (99%)	162 (99%)	2 (1%)	0	100	100
1	FF	164/166 (99%)	156 (95%)	8 (5%)	0	100	100
1	FG	164/166 (99%)	161 (98%)	3 (2%)	0	100	100
1	FH	164/166 (99%)	160 (98%)	4 (2%)	0	100	100
1	FI	164/166 (99%)	164 (100%)	0	0	100	100
1	FJ	164/166 (99%)	164 (100%)	0	0	100	100
1	FK	164/166 (99%)	164 (100%)	0	0	100	100
1	FL	164/166 (99%)	163 (99%)	1 (1%)	0	100	100
1	FM	164/166 (99%)	163 (99%)	1 (1%)	0	100	100
1	FN	164/166 (99%)	164 (100%)	0	0	100	100
1	FO	164/166 (99%)	164 (100%)	0	0	100	100
1	FP	164/166 (99%)	164 (100%)	0	0	100	100
1	FQ	164/166 (99%)	164 (100%)	0	0	100	100
1	FR	164/166 (99%)	161 (98%)	3 (2%)	0	100	100
1	FS	164/166 (99%)	160 (98%)	4 (2%)	0	100	100
1	FT	164/166 (99%)	163 (99%)	1 (1%)	0	100	100
1	FU	164/166 (99%)	155 (94%)	9 (6%)	0	100	100
1	FV	164/166 (99%)	161 (98%)	3 (2%)	0	100	100
1	FW	164/166 (99%)	159 (97%)	5 (3%)	0	100	100
1	FX	164/166 (99%)	163 (99%)	1 (1%)	0	100	100
1	FY	164/166 (99%)	157 (96%)	7 (4%)	0	100	100
1	FZ	164/166 (99%)	162 (99%)	2 (1%)	0	100	100
1	GA	164/166 (99%)	156 (95%)	8 (5%)	0	100	100
1	GB	164/166 (99%)	161 (98%)	3 (2%)	0	100	100
1	GC	164/166 (99%)	159 (97%)	5 (3%)	0	100	100
1	GD	164/166 (99%)	164 (100%)	0	0	100	100
1	GE	164/166 (99%)	164 (100%)	0	0	100	100
1	GF	164/166 (99%)	164 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	GG	164/166 (99%)	163 (99%)	1 (1%)	0	100	100
1	GH	164/166 (99%)	163 (99%)	1 (1%)	0	100	100
1	GI	164/166 (99%)	164 (100%)	0	0	100	100
1	GJ	164/166 (99%)	164 (100%)	0	0	100	100
1	GK	164/166 (99%)	164 (100%)	0	0	100	100
1	GL	164/166 (99%)	164 (100%)	0	0	100	100
1	GM	164/166 (99%)	161 (98%)	3 (2%)	0	100	100
1	GN	164/166 (99%)	160 (98%)	4 (2%)	0	100	100
1	GO	164/166 (99%)	163 (99%)	1 (1%)	0	100	100
1	GP	164/166 (99%)	155 (94%)	9 (6%)	0	100	100
1	GQ	164/166 (99%)	161 (98%)	3 (2%)	0	100	100
1	GR	164/166 (99%)	159 (97%)	5 (3%)	0	100	100
1	GS	164/166 (99%)	163 (99%)	1 (1%)	0	100	100
1	GT	164/166 (99%)	157 (96%)	7 (4%)	0	100	100
1	GU	164/166 (99%)	162 (99%)	2 (1%)	0	100	100
1	GV	164/166 (99%)	156 (95%)	8 (5%)	0	100	100
1	GW	164/166 (99%)	161 (98%)	3 (2%)	0	100	100
1	GX	164/166 (99%)	158 (96%)	6 (4%)	0	100	100
1	GY	164/166 (99%)	164 (100%)	0	0	100	100
1	GZ	164/166 (99%)	164 (100%)	0	0	100	100
1	HA	164/166 (99%)	164 (100%)	0	0	100	100
1	HB	164/166 (99%)	163 (99%)	1 (1%)	0	100	100
1	HC	164/166 (99%)	163 (99%)	1 (1%)	0	100	100
1	HD	164/166 (99%)	164 (100%)	0	0	100	100
1	HE	164/166 (99%)	164 (100%)	0	0	100	100
1	HF	164/166 (99%)	164 (100%)	0	0	100	100
1	HG	164/166 (99%)	164 (100%)	0	0	100	100
1	HH	164/166 (99%)	161 (98%)	3 (2%)	0	100	100
1	HI	164/166 (99%)	160 (98%)	4 (2%)	0	100	100
1	HJ	164/166 (99%)	163 (99%)	1 (1%)	0	100	100
1	HK	164/166 (99%)	155 (94%)	9 (6%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	HL	164/166 (99%)	161 (98%)	3 (2%)	0	100	100
1	HM	164/166 (99%)	159 (97%)	5 (3%)	0	100	100
1	HN	164/166 (99%)	163 (99%)	1 (1%)	0	100	100
1	HO	164/166 (99%)	157 (96%)	7 (4%)	0	100	100
1	HP	164/166 (99%)	162 (99%)	2 (1%)	0	100	100
1	HQ	164/166 (99%)	156 (95%)	8 (5%)	0	100	100
1	HR	164/166 (99%)	161 (98%)	3 (2%)	0	100	100
1	HS	164/166 (99%)	159 (97%)	5 (3%)	0	100	100
1	HT	164/166 (99%)	164 (100%)	0	0	100	100
1	HU	164/166 (99%)	164 (100%)	0	0	100	100
1	HV	164/166 (99%)	164 (100%)	0	0	100	100
1	HW	164/166 (99%)	163 (99%)	1 (1%)	0	100	100
1	HX	164/166 (99%)	163 (99%)	1 (1%)	0	100	100
1	HY	164/166 (99%)	164 (100%)	0	0	100	100
1	HZ	164/166 (99%)	164 (100%)	0	0	100	100
1	IA	164/166 (99%)	164 (100%)	0	0	100	100
1	IB	164/166 (99%)	164 (100%)	0	0	100	100
All	All	34440/34860 (99%)	33906 (98%)	532 (2%)	2 (0%)	100	100

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	CB	106	GLY
1	EM	106	GLY

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	AA	147/147 (100%)	146 (99%)	1 (1%)	84	93

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	AB	147/147 (100%)	145 (99%)	2 (1%)	67	85
1	AC	147/147 (100%)	146 (99%)	1 (1%)	84	93
1	AD	147/147 (100%)	146 (99%)	1 (1%)	84	93
1	AE	147/147 (100%)	146 (99%)	1 (1%)	84	93
1	AF	147/147 (100%)	146 (99%)	1 (1%)	84	93
1	AG	147/147 (100%)	145 (99%)	2 (1%)	67	85
1	AH	147/147 (100%)	145 (99%)	2 (1%)	67	85
1	AI	147/147 (100%)	146 (99%)	1 (1%)	84	93
1	AJ	147/147 (100%)	145 (99%)	2 (1%)	67	85
1	AK	147/147 (100%)	145 (99%)	2 (1%)	67	85
1	AL	147/147 (100%)	144 (98%)	3 (2%)	55	79
1	AM	147/147 (100%)	146 (99%)	1 (1%)	84	93
1	AN	147/147 (100%)	147 (100%)	0	100	100
1	AO	147/147 (100%)	145 (99%)	2 (1%)	67	85
1	AP	147/147 (100%)	147 (100%)	0	100	100
1	AQ	147/147 (100%)	147 (100%)	0	100	100
1	AR	147/147 (100%)	147 (100%)	0	100	100
1	AS	147/147 (100%)	147 (100%)	0	100	100
1	AT	147/147 (100%)	145 (99%)	2 (1%)	67	85
1	AU	147/147 (100%)	145 (99%)	2 (1%)	67	85
1	AV	147/147 (100%)	146 (99%)	1 (1%)	84	93
1	AW	147/147 (100%)	145 (99%)	2 (1%)	67	85
1	AX	147/147 (100%)	146 (99%)	1 (1%)	84	93
1	AY	147/147 (100%)	146 (99%)	1 (1%)	84	93
1	AZ	147/147 (100%)	146 (99%)	1 (1%)	84	93
1	BA	147/147 (100%)	146 (99%)	1 (1%)	84	93
1	BB	147/147 (100%)	145 (99%)	2 (1%)	67	85
1	BC	147/147 (100%)	145 (99%)	2 (1%)	67	85
1	BD	147/147 (100%)	146 (99%)	1 (1%)	84	93
1	BE	147/147 (100%)	145 (99%)	2 (1%)	67	85
1	BF	147/147 (100%)	145 (99%)	2 (1%)	67	85

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	BG	147/147 (100%)	144 (98%)	3 (2%)	55 79
1	BH	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	BI	147/147 (100%)	147 (100%)	0	100 100
1	BJ	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	BK	147/147 (100%)	147 (100%)	0	100 100
1	BL	147/147 (100%)	147 (100%)	0	100 100
1	BM	147/147 (100%)	147 (100%)	0	100 100
1	BN	147/147 (100%)	147 (100%)	0	100 100
1	BO	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	BP	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	BQ	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	BR	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	BS	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	BT	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	BU	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	BV	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	BW	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	BX	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	BY	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	BZ	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	CA	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	CB	147/147 (100%)	144 (98%)	3 (2%)	55 79
1	CC	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	CD	147/147 (100%)	147 (100%)	0	100 100
1	CE	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	CF	147/147 (100%)	147 (100%)	0	100 100
1	CG	147/147 (100%)	147 (100%)	0	100 100
1	CH	147/147 (100%)	147 (100%)	0	100 100
1	CI	147/147 (100%)	147 (100%)	0	100 100
1	CJ	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	CK	147/147 (100%)	145 (99%)	2 (1%)	67 85

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	CL	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	CM	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	CN	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	CO	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	CP	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	CQ	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	CR	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	CS	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	CT	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	CU	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	CV	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	CW	147/147 (100%)	144 (98%)	3 (2%)	55 79
1	CX	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	CY	147/147 (100%)	147 (100%)	0	100 100
1	CZ	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	DA	147/147 (100%)	147 (100%)	0	100 100
1	DB	147/147 (100%)	147 (100%)	0	100 100
1	DC	147/147 (100%)	147 (100%)	0	100 100
1	DD	147/147 (100%)	147 (100%)	0	100 100
1	DE	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	DF	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	DG	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	DH	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	DI	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	DJ	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	DK	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	DL	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	DM	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	DN	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	DO	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	DP	147/147 (100%)	145 (99%)	2 (1%)	67 85

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	DQ	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	DR	147/147 (100%)	144 (98%)	3 (2%)	55 79
1	DS	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	DT	147/147 (100%)	147 (100%)	0	100 100
1	DU	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	DV	147/147 (100%)	147 (100%)	0	100 100
1	DW	147/147 (100%)	147 (100%)	0	100 100
1	DX	147/147 (100%)	147 (100%)	0	100 100
1	DY	147/147 (100%)	147 (100%)	0	100 100
1	DZ	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	EA	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	EB	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	EC	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	ED	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	EE	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	EF	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	EG	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	EH	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	EI	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	EJ	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	EK	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	EL	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	EM	147/147 (100%)	144 (98%)	3 (2%)	55 79
1	EN	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	EO	147/147 (100%)	147 (100%)	0	100 100
1	EP	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	EQ	147/147 (100%)	147 (100%)	0	100 100
1	ER	147/147 (100%)	147 (100%)	0	100 100
1	ES	147/147 (100%)	147 (100%)	0	100 100
1	ET	147/147 (100%)	147 (100%)	0	100 100
1	EU	147/147 (100%)	145 (99%)	2 (1%)	67 85

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	EV	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	EW	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	EX	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	EY	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	EZ	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	FA	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	FB	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	FC	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	FD	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	FE	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	FF	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	FG	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	FH	147/147 (100%)	144 (98%)	3 (2%)	55 79
1	FI	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	FJ	147/147 (100%)	147 (100%)	0	100 100
1	FK	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	FL	147/147 (100%)	147 (100%)	0	100 100
1	FM	147/147 (100%)	147 (100%)	0	100 100
1	FN	147/147 (100%)	147 (100%)	0	100 100
1	FO	147/147 (100%)	147 (100%)	0	100 100
1	FP	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	FQ	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	FR	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	FS	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	FT	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	FU	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	FV	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	FW	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	FX	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	FY	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	FZ	147/147 (100%)	146 (99%)	1 (1%)	84 93

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	GA	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	GB	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	GC	147/147 (100%)	144 (98%)	3 (2%)	55 79
1	GD	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	GE	147/147 (100%)	147 (100%)	0	100 100
1	GF	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	GG	147/147 (100%)	147 (100%)	0	100 100
1	GH	147/147 (100%)	147 (100%)	0	100 100
1	GI	147/147 (100%)	147 (100%)	0	100 100
1	GJ	147/147 (100%)	147 (100%)	0	100 100
1	GK	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	GL	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	GM	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	GN	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	GO	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	GP	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	GQ	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	GR	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	GS	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	GT	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	GU	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	GV	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	GW	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	GX	147/147 (100%)	144 (98%)	3 (2%)	55 79
1	GY	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	GZ	147/147 (100%)	147 (100%)	0	100 100
1	HA	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	HB	147/147 (100%)	147 (100%)	0	100 100
1	HC	147/147 (100%)	147 (100%)	0	100 100
1	HD	147/147 (100%)	147 (100%)	0	100 100
1	HE	147/147 (100%)	147 (100%)	0	100 100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	HF	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	HG	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	HH	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	HI	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	HJ	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	HK	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	HL	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	HM	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	HN	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	HO	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	HP	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	HQ	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	HR	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	HS	147/147 (100%)	144 (98%)	3 (2%)	55 79
1	HT	147/147 (100%)	146 (99%)	1 (1%)	84 93
1	HU	147/147 (100%)	147 (100%)	0	100 100
1	HV	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	HW	147/147 (100%)	147 (100%)	0	100 100
1	HX	147/147 (100%)	147 (100%)	0	100 100
1	HY	147/147 (100%)	147 (100%)	0	100 100
1	HZ	147/147 (100%)	147 (100%)	0	100 100
1	IA	147/147 (100%)	145 (99%)	2 (1%)	67 85
1	IB	147/147 (100%)	145 (99%)	2 (1%)	67 85
All	All	30870/30870 (100%)	30610 (99%)	260 (1%)	81 91

All (260) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	AA	72	ASN
1	AB	97	ARG
1	AB	99	GLN
1	AC	72	ASN
1	AD	75	ASN
1	AE	72	ASN

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Mol	Chain	Res	Type
1	AF	75	ASN
1	AG	72	ASN
1	AG	99	GLN
1	AH	75	ASN
1	AH	97	ARG
1	AI	72	ASN
1	AJ	72	ASN
1	AJ	75	ASN
1	AK	72	ASN
1	AK	97	ARG
1	AL	72	ASN
1	AL	75	ASN
1	AL	97	ARG
1	AM	109	VAL
1	AO	72	ASN
1	AO	75	ASN
1	AT	97	ARG
1	AT	113	CYS
1	AU	97	ARG
1	AU	113	CYS
1	AV	72	ASN
1	AW	97	ARG
1	AW	99	GLN
1	AX	72	ASN
1	AY	75	ASN
1	AZ	72	ASN
1	BA	75	ASN
1	BB	72	ASN
1	BB	99	GLN
1	BC	75	ASN
1	BC	97	ARG
1	BD	72	ASN
1	BE	72	ASN
1	BE	75	ASN
1	BF	72	ASN
1	BF	97	ARG
1	BG	72	ASN
1	BG	75	ASN
1	BG	97	ARG
1	BH	109	VAL
1	BJ	72	ASN
1	BJ	75	ASN

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Mol	Chain	Res	Type
1	BO	97	ARG
1	BO	113	CYS
1	BP	97	ARG
1	BP	113	CYS
1	BQ	72	ASN
1	BR	97	ARG
1	BR	99	GLN
1	BS	72	ASN
1	BT	75	ASN
1	BU	72	ASN
1	BV	75	ASN
1	BW	72	ASN
1	BW	99	GLN
1	BX	75	ASN
1	BX	97	ARG
1	BY	72	ASN
1	BZ	72	ASN
1	BZ	75	ASN
1	CA	72	ASN
1	CA	97	ARG
1	CB	72	ASN
1	CB	75	ASN
1	CB	97	ARG
1	CC	109	VAL
1	CE	72	ASN
1	CE	75	ASN
1	CJ	97	ARG
1	CJ	113	CYS
1	CK	97	ARG
1	CK	113	CYS
1	CL	72	ASN
1	CM	97	ARG
1	CM	99	GLN
1	CN	72	ASN
1	CO	75	ASN
1	CP	72	ASN
1	CQ	75	ASN
1	CR	72	ASN
1	CR	99	GLN
1	CS	75	ASN
1	CS	97	ARG
1	CT	72	ASN

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Mol	Chain	Res	Type
1	CU	72	ASN
1	CU	75	ASN
1	CV	72	ASN
1	CV	97	ARG
1	CW	72	ASN
1	CW	75	ASN
1	CW	97	ARG
1	CX	109	VAL
1	CZ	72	ASN
1	CZ	75	ASN
1	DE	97	ARG
1	DE	113	CYS
1	DF	97	ARG
1	DF	113	CYS
1	DG	72	ASN
1	DH	97	ARG
1	DH	99	GLN
1	DI	72	ASN
1	DJ	75	ASN
1	DK	72	ASN
1	DL	75	ASN
1	DM	72	ASN
1	DM	99	GLN
1	DN	75	ASN
1	DN	97	ARG
1	DO	72	ASN
1	DP	72	ASN
1	DP	75	ASN
1	DQ	72	ASN
1	DQ	97	ARG
1	DR	72	ASN
1	DR	75	ASN
1	DR	97	ARG
1	DS	109	VAL
1	DU	72	ASN
1	DU	75	ASN
1	DZ	97	ARG
1	DZ	113	CYS
1	EA	97	ARG
1	EA	113	CYS
1	EB	72	ASN
1	EC	97	ARG

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Mol	Chain	Res	Type
1	EC	99	GLN
1	ED	72	ASN
1	EE	75	ASN
1	EF	72	ASN
1	EG	75	ASN
1	EH	72	ASN
1	EH	99	GLN
1	EI	75	ASN
1	EI	97	ARG
1	EJ	72	ASN
1	EK	72	ASN
1	EK	75	ASN
1	EL	72	ASN
1	EL	97	ARG
1	EM	72	ASN
1	EM	75	ASN
1	EM	97	ARG
1	EN	109	VAL
1	EP	72	ASN
1	EP	75	ASN
1	EU	97	ARG
1	EU	113	CYS
1	EV	97	ARG
1	EV	113	CYS
1	EW	72	ASN
1	EX	97	ARG
1	EX	99	GLN
1	EY	72	ASN
1	EZ	75	ASN
1	FA	72	ASN
1	FB	75	ASN
1	FC	72	ASN
1	FC	99	GLN
1	FD	75	ASN
1	FD	97	ARG
1	FE	72	ASN
1	FF	72	ASN
1	FF	75	ASN
1	FG	72	ASN
1	FG	97	ARG
1	FH	72	ASN
1	FH	75	ASN

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Mol	Chain	Res	Type
1	FH	97	ARG
1	FI	109	VAL
1	FK	72	ASN
1	FK	75	ASN
1	FP	97	ARG
1	FP	113	CYS
1	FQ	97	ARG
1	FQ	113	CYS
1	FR	72	ASN
1	FS	97	ARG
1	FS	99	GLN
1	FT	72	ASN
1	FU	75	ASN
1	FV	72	ASN
1	FW	75	ASN
1	FX	72	ASN
1	FX	99	GLN
1	FY	75	ASN
1	FY	97	ARG
1	FZ	72	ASN
1	GA	72	ASN
1	GA	75	ASN
1	GB	72	ASN
1	GB	97	ARG
1	GC	72	ASN
1	GC	75	ASN
1	GC	97	ARG
1	GD	109	VAL
1	GF	72	ASN
1	GF	75	ASN
1	GK	97	ARG
1	GK	113	CYS
1	GL	97	ARG
1	GL	113	CYS
1	GM	72	ASN
1	GN	97	ARG
1	GN	99	GLN
1	GO	72	ASN
1	GP	75	ASN
1	GQ	72	ASN
1	GR	75	ASN
1	GS	72	ASN

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Mol	Chain	Res	Type
1	GS	99	GLN
1	GT	75	ASN
1	GT	97	ARG
1	GU	72	ASN
1	GV	72	ASN
1	GV	75	ASN
1	GW	72	ASN
1	GW	97	ARG
1	GX	72	ASN
1	GX	75	ASN
1	GX	97	ARG
1	GY	109	VAL
1	HA	72	ASN
1	HA	75	ASN
1	HF	97	ARG
1	HF	113	CYS
1	HG	97	ARG
1	HG	113	CYS
1	HH	72	ASN
1	HI	97	ARG
1	HI	99	GLN
1	HJ	72	ASN
1	HK	75	ASN
1	HL	72	ASN
1	HM	75	ASN
1	HN	72	ASN
1	HN	99	GLN
1	HO	75	ASN
1	HO	97	ARG
1	HP	72	ASN
1	HQ	72	ASN
1	HQ	75	ASN
1	HR	72	ASN
1	HR	97	ARG
1	HS	72	ASN
1	HS	75	ASN
1	HS	97	ARG
1	HT	109	VAL
1	HV	72	ASN
1	HV	75	ASN
1	IA	97	ARG
1	IA	113	CYS

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Mol	Chain	Res	Type
1	IB	97	ARG
1	IB	113	CYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (92) such sidechains are listed below:

Mol	Chain	Res	Type
1	AA	53	GLN
1	AA	104	ASN
1	AB	75	ASN
1	AB	144	GLN
1	AD	144	GLN
1	AH	144	GLN
1	AK	104	ASN
1	AU	53	GLN
1	AU	72	ASN
1	AU	144	GLN
1	AV	53	GLN
1	AW	75	ASN
1	AW	144	GLN
1	AY	144	GLN
1	BC	144	GLN
1	BE	104	ASN
1	BF	104	ASN
1	BP	72	ASN
1	BP	144	GLN
1	BQ	53	GLN
1	BR	75	ASN
1	BR	144	GLN
1	BT	144	GLN
1	BX	144	GLN
1	CA	104	ASN
1	CK	72	ASN
1	CK	144	GLN
1	CL	53	GLN
1	CL	104	ASN
1	CM	75	ASN
1	CM	144	GLN
1	CO	144	GLN
1	CS	144	GLN
1	CV	104	ASN
1	CX	75	ASN
1	DF	72	ASN

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Mol	Chain	Res	Type
1	DF	144	GLN
1	DG	53	GLN
1	DH	75	ASN
1	DH	144	GLN
1	DJ	144	GLN
1	DN	144	GLN
1	DQ	104	ASN
1	DS	75	ASN
1	EA	72	ASN
1	EA	144	GLN
1	EB	53	GLN
1	EC	75	ASN
1	EC	144	GLN
1	EE	144	GLN
1	EI	144	GLN
1	EK	104	ASN
1	EL	104	ASN
1	EN	75	ASN
1	EV	144	GLN
1	EW	53	GLN
1	EW	104	ASN
1	EX	75	ASN
1	EX	144	GLN
1	EZ	144	GLN
1	FD	144	GLN
1	FG	104	ASN
1	FQ	72	ASN
1	FQ	144	GLN
1	FR	53	GLN
1	FS	144	GLN
1	FU	144	GLN
1	FY	144	GLN
1	GA	104	ASN
1	GB	104	ASN
1	GL	72	ASN
1	GL	144	GLN
1	GM	53	GLN
1	GN	144	GLN
1	GP	144	GLN
1	GT	144	GLN
1	GV	104	ASN
1	GW	104	ASN

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Mol	Chain	Res	Type
1	GY	75	ASN
1	HG	72	ASN
1	HG	144	GLN
1	HH	53	GLN
1	HH	104	ASN
1	HI	75	ASN
1	HI	144	GLN
1	HK	144	GLN
1	HO	144	GLN
1	HQ	104	ASN
1	HR	104	ASN
1	HT	75	ASN
1	IB	72	ASN
1	IB	144	GLN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no monosaccharides in this entry.

5.6 Ligand geometry

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	166/166 (100%)	-0.16	2 (1%) 79 66	76, 102, 127, 158	0
1	AB	166/166 (100%)	-0.19	0 100 100	80, 103, 133, 171	0
1	AC	166/166 (100%)	-0.30	0 100 100	77, 99, 128, 154	0
1	AD	166/166 (100%)	-0.24	1 (0%) 89 81	76, 101, 136, 166	0
1	AE	166/166 (100%)	-0.34	1 (0%) 89 81	75, 99, 125, 158	0
1	AF	166/166 (100%)	-0.26	2 (1%) 79 66	75, 100, 137, 171	0
1	AG	166/166 (100%)	-0.10	0 100 100	75, 98, 123, 150	0
1	AH	166/166 (100%)	-0.11	1 (0%) 89 81	75, 97, 135, 166	0
1	AI	166/166 (100%)	-0.20	0 100 100	76, 97, 123, 140	0
1	AJ	166/166 (100%)	-0.20	3 (1%) 68 53	76, 97, 127, 170	0
1	AK	166/166 (100%)	-0.22	1 (0%) 89 81	76, 96, 121, 156	0
1	AL	166/166 (100%)	-0.18	1 (0%) 89 81	76, 97, 133, 170	0
1	AM	166/166 (100%)	-0.16	0 100 100	78, 105, 138, 151	0
1	AN	166/166 (100%)	-0.18	2 (1%) 79 66	81, 104, 137, 156	0
1	AO	166/166 (100%)	-0.20	0 100 100	80, 100, 136, 151	0
1	AP	166/166 (100%)	-0.25	0 100 100	75, 103, 133, 149	0
1	AQ	166/166 (100%)	-0.23	0 100 100	76, 101, 138, 162	0
1	AR	166/166 (100%)	-0.21	0 100 100	77, 100, 138, 153	0
1	AS	166/166 (100%)	-0.06	5 (3%) 50 34	76, 97, 138, 150	0
1	AT	166/166 (100%)	-0.16	1 (0%) 89 81	76, 98, 134, 178	0
1	AU	166/166 (100%)	0.21	3 (1%) 68 53	79, 100, 130, 148	0
1	AV	166/166 (100%)	-0.13	0 100 100	76, 102, 127, 158	0
1	AW	166/166 (100%)	-0.20	0 100 100	80, 103, 133, 171	0
1	AX	166/166 (100%)	-0.24	0 100 100	77, 99, 128, 154	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	AY	166/166 (100%)	-0.15	3 (1%) 68 53	76, 101, 136, 166	0
1	AZ	166/166 (100%)	-0.32	0 100 100	75, 99, 125, 158	0
1	BA	166/166 (100%)	-0.22	0 100 100	75, 100, 137, 171	0
1	BB	166/166 (100%)	-0.36	0 100 100	75, 98, 123, 150	0
1	BC	166/166 (100%)	-0.26	0 100 100	75, 97, 135, 166	0
1	BD	166/166 (100%)	-0.22	0 100 100	76, 97, 123, 140	0
1	BE	166/166 (100%)	-0.22	0 100 100	76, 97, 127, 170	0
1	BF	166/166 (100%)	-0.31	0 100 100	76, 96, 121, 156	0
1	BG	166/166 (100%)	-0.27	0 100 100	76, 97, 133, 170	0
1	BH	166/166 (100%)	-0.05	2 (1%) 79 66	78, 105, 138, 151	0
1	BI	166/166 (100%)	-0.07	1 (0%) 89 81	81, 104, 137, 156	0
1	BJ	166/166 (100%)	-0.15	1 (0%) 89 81	80, 100, 136, 151	0
1	BK	166/166 (100%)	-0.21	3 (1%) 68 53	75, 103, 133, 149	0
1	BL	166/166 (100%)	-0.20	1 (0%) 89 81	76, 101, 138, 162	0
1	BM	166/166 (100%)	-0.13	3 (1%) 68 53	77, 100, 138, 153	0
1	BN	166/166 (100%)	-0.20	3 (1%) 68 53	76, 97, 138, 150	0
1	BO	166/166 (100%)	-0.24	1 (0%) 89 81	76, 98, 134, 178	0
1	BP	166/166 (100%)	-0.08	0 100 100	79, 100, 130, 148	0
1	BQ	166/166 (100%)	-0.16	0 100 100	76, 102, 127, 158	0
1	BR	166/166 (100%)	-0.25	0 100 100	80, 103, 133, 171	0
1	BS	166/166 (100%)	-0.18	0 100 100	77, 99, 128, 154	0
1	BT	166/166 (100%)	-0.27	0 100 100	76, 101, 136, 166	0
1	BU	166/166 (100%)	-0.15	0 100 100	75, 99, 125, 158	0
1	BV	166/166 (100%)	-0.18	0 100 100	75, 100, 137, 171	0
1	BW	166/166 (100%)	-0.27	0 100 100	75, 98, 123, 150	0
1	BX	166/166 (100%)	-0.19	0 100 100	75, 97, 135, 166	0
1	BY	166/166 (100%)	-0.19	1 (0%) 89 81	76, 97, 123, 140	0
1	BZ	166/166 (100%)	-0.27	0 100 100	76, 97, 127, 170	0
1	CA	166/166 (100%)	-0.28	0 100 100	76, 96, 121, 156	0
1	CB	166/166 (100%)	-0.23	0 100 100	76, 97, 133, 170	0
1	CC	166/166 (100%)	-0.16	1 (0%) 89 81	78, 105, 138, 151	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	CD	166/166 (100%)	-0.20	0 100 100	81, 104, 137, 156	0
1	CE	166/166 (100%)	-0.25	0 100 100	80, 100, 136, 151	0
1	CF	166/166 (100%)	-0.17	1 (0%) 89 81	75, 103, 133, 149	0
1	CG	166/166 (100%)	-0.17	1 (0%) 89 81	76, 101, 138, 162	0
1	CH	166/166 (100%)	-0.07	1 (0%) 89 81	77, 100, 138, 153	0
1	CI	166/166 (100%)	-0.06	3 (1%) 68 53	76, 97, 138, 150	0
1	CJ	166/166 (100%)	-0.14	1 (0%) 89 81	76, 98, 134, 178	0
1	CK	166/166 (100%)	-0.10	0 100 100	79, 100, 130, 148	0
1	CL	166/166 (100%)	-0.04	3 (1%) 68 53	76, 102, 127, 158	0
1	CM	166/166 (100%)	-0.12	0 100 100	80, 103, 133, 171	0
1	CN	166/166 (100%)	-0.26	0 100 100	77, 99, 128, 154	0
1	CO	166/166 (100%)	-0.20	1 (0%) 89 81	76, 101, 136, 166	0
1	CP	166/166 (100%)	-0.30	0 100 100	75, 99, 125, 158	0
1	CQ	166/166 (100%)	-0.20	0 100 100	75, 100, 137, 171	0
1	CR	166/166 (100%)	-0.28	0 100 100	75, 98, 123, 150	0
1	CS	166/166 (100%)	-0.27	1 (0%) 89 81	75, 97, 135, 166	0
1	CT	166/166 (100%)	-0.19	0 100 100	76, 97, 123, 140	0
1	CU	166/166 (100%)	-0.27	0 100 100	76, 97, 127, 170	0
1	CV	166/166 (100%)	-0.21	0 100 100	76, 96, 121, 156	0
1	CW	166/166 (100%)	-0.17	0 100 100	76, 97, 133, 170	0
1	CX	166/166 (100%)	-0.20	1 (0%) 89 81	78, 105, 138, 151	0
1	CY	166/166 (100%)	-0.18	0 100 100	81, 104, 137, 156	0
1	CZ	166/166 (100%)	-0.19	1 (0%) 89 81	80, 100, 136, 151	0
1	DA	166/166 (100%)	-0.29	1 (0%) 89 81	75, 103, 133, 149	0
1	DB	166/166 (100%)	-0.17	0 100 100	76, 101, 138, 162	0
1	DC	166/166 (100%)	-0.12	1 (0%) 89 81	77, 100, 138, 153	0
1	DD	166/166 (100%)	-0.15	1 (0%) 89 81	76, 97, 138, 150	0
1	DE	166/166 (100%)	-0.10	2 (1%) 79 66	76, 98, 134, 178	0
1	DF	166/166 (100%)	-0.06	0 100 100	79, 100, 130, 148	0
1	DG	166/166 (100%)	-0.25	1 (0%) 89 81	76, 102, 127, 158	0
1	DH	166/166 (100%)	-0.26	2 (1%) 79 66	80, 103, 133, 171	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	DI	166/166 (100%)	-0.17	1 (0%) 89 81	77, 99, 128, 154	0
1	DJ	166/166 (100%)	-0.06	0 100 100	76, 101, 136, 166	0
1	DK	166/166 (100%)	-0.30	0 100 100	75, 99, 125, 158	0
1	DL	166/166 (100%)	-0.24	0 100 100	75, 100, 137, 171	0
1	DM	166/166 (100%)	-0.18	1 (0%) 89 81	75, 98, 123, 150	0
1	DN	166/166 (100%)	-0.16	1 (0%) 89 81	75, 97, 135, 166	0
1	DO	166/166 (100%)	-0.12	0 100 100	76, 97, 123, 140	0
1	DP	166/166 (100%)	-0.13	1 (0%) 89 81	76, 97, 127, 170	0
1	DQ	166/166 (100%)	-0.28	1 (0%) 89 81	76, 96, 121, 156	0
1	DR	166/166 (100%)	-0.26	0 100 100	76, 97, 133, 170	0
1	DS	166/166 (100%)	0.08	4 (2%) 59 42	78, 105, 138, 151	0
1	DT	166/166 (100%)	-0.04	2 (1%) 79 66	81, 104, 137, 156	0
1	DU	166/166 (100%)	-0.22	0 100 100	80, 100, 136, 151	0
1	DV	166/166 (100%)	-0.17	1 (0%) 89 81	75, 103, 133, 149	0
1	DW	166/166 (100%)	-0.14	1 (0%) 89 81	76, 101, 138, 162	0
1	DX	166/166 (100%)	-0.09	1 (0%) 89 81	77, 100, 138, 153	0
1	DY	166/166 (100%)	-0.14	1 (0%) 89 81	76, 97, 138, 150	0
1	DZ	166/166 (100%)	-0.27	1 (0%) 89 81	76, 98, 134, 178	0
1	EA	166/166 (100%)	-0.20	0 100 100	79, 100, 130, 148	0
1	EB	166/166 (100%)	-0.24	0 100 100	76, 102, 127, 158	0
1	EC	166/166 (100%)	-0.18	0 100 100	80, 103, 133, 171	0
1	ED	166/166 (100%)	-0.22	2 (1%) 79 66	77, 99, 128, 154	0
1	EE	166/166 (100%)	-0.33	0 100 100	76, 101, 136, 166	0
1	EF	166/166 (100%)	-0.35	1 (0%) 89 81	75, 99, 125, 158	0
1	EG	166/166 (100%)	-0.25	0 100 100	75, 100, 137, 171	0
1	EH	166/166 (100%)	-0.26	0 100 100	75, 98, 123, 150	0
1	EI	166/166 (100%)	-0.13	0 100 100	75, 97, 135, 166	0
1	EJ	166/166 (100%)	-0.18	0 100 100	76, 97, 123, 140	0
1	EK	166/166 (100%)	-0.11	0 100 100	76, 97, 127, 170	0
1	EL	166/166 (100%)	-0.22	1 (0%) 89 81	76, 96, 121, 156	0
1	EM	166/166 (100%)	-0.23	1 (0%) 89 81	76, 97, 133, 170	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å^2)	Q<0.9
1	EN	166/166 (100%)	-0.17	1 (0%)	89	81	78, 105, 138, 151	0
1	EO	166/166 (100%)	-0.21	1 (0%)	89	81	81, 104, 137, 156	0
1	EP	166/166 (100%)	-0.26	1 (0%)	89	81	80, 100, 136, 151	0
1	EQ	166/166 (100%)	-0.16	1 (0%)	89	81	75, 103, 133, 149	0
1	ER	166/166 (100%)	-0.22	1 (0%)	89	81	76, 101, 138, 162	0
1	ES	166/166 (100%)	-0.27	0	100	100	77, 100, 138, 153	0
1	ET	166/166 (100%)	-0.05	2 (1%)	79	66	76, 97, 138, 150	0
1	EU	166/166 (100%)	-0.16	2 (1%)	79	66	76, 98, 134, 178	0
1	EV	166/166 (100%)	-0.09	0	100	100	79, 100, 130, 148	0
1	EW	166/166 (100%)	-0.22	1 (0%)	89	81	76, 102, 127, 158	0
1	EX	166/166 (100%)	-0.14	2 (1%)	79	66	80, 103, 133, 171	0
1	EY	166/166 (100%)	-0.29	1 (0%)	89	81	77, 99, 128, 154	0
1	EZ	166/166 (100%)	-0.20	1 (0%)	89	81	76, 101, 136, 166	0
1	FA	166/166 (100%)	-0.30	0	100	100	75, 99, 125, 158	0
1	FB	166/166 (100%)	-0.29	0	100	100	75, 100, 137, 171	0
1	FC	166/166 (100%)	-0.28	0	100	100	75, 98, 123, 150	0
1	FD	166/166 (100%)	-0.35	0	100	100	75, 97, 135, 166	0
1	FE	166/166 (100%)	-0.26	0	100	100	76, 97, 123, 140	0
1	FF	166/166 (100%)	-0.18	0	100	100	76, 97, 127, 170	0
1	FG	166/166 (100%)	-0.29	0	100	100	76, 96, 121, 156	0
1	FH	166/166 (100%)	-0.31	0	100	100	76, 97, 133, 170	0
1	FI	166/166 (100%)	-0.10	1 (0%)	89	81	78, 105, 138, 151	0
1	FJ	166/166 (100%)	0.04	4 (2%)	59	42	81, 104, 137, 156	0
1	FK	166/166 (100%)	-0.22	1 (0%)	89	81	80, 100, 136, 151	0
1	FL	166/166 (100%)	-0.23	0	100	100	75, 103, 133, 149	0
1	FM	166/166 (100%)	-0.16	3 (1%)	68	53	76, 101, 138, 162	0
1	FN	166/166 (100%)	-0.22	1 (0%)	89	81	77, 100, 138, 153	0
1	FO	166/166 (100%)	-0.17	2 (1%)	79	66	76, 97, 138, 150	0
1	FP	166/166 (100%)	-0.19	1 (0%)	89	81	76, 98, 134, 178	0
1	FQ	166/166 (100%)	-0.23	0	100	100	79, 100, 130, 148	0
1	FR	166/166 (100%)	-0.23	0	100	100	76, 102, 127, 158	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	FS	166/166 (100%)	-0.18	1 (0%) 89 81	80, 103, 133, 171	0
1	FT	166/166 (100%)	-0.14	0 100 100	77, 99, 128, 154	0
1	FU	166/166 (100%)	-0.17	2 (1%) 79 66	76, 101, 136, 166	0
1	FV	166/166 (100%)	-0.07	1 (0%) 89 81	75, 99, 125, 158	0
1	FW	166/166 (100%)	-0.24	0 100 100	75, 100, 137, 171	0
1	FX	166/166 (100%)	-0.35	0 100 100	75, 98, 123, 150	0
1	FY	166/166 (100%)	-0.22	2 (1%) 79 66	75, 97, 135, 166	0
1	FZ	166/166 (100%)	-0.26	0 100 100	76, 97, 123, 140	0
1	GA	166/166 (100%)	-0.12	0 100 100	76, 97, 127, 170	0
1	GB	166/166 (100%)	-0.22	0 100 100	76, 96, 121, 156	0
1	GC	166/166 (100%)	-0.18	1 (0%) 89 81	76, 97, 133, 170	0
1	GD	166/166 (100%)	-0.24	1 (0%) 89 81	78, 105, 138, 151	0
1	GE	166/166 (100%)	-0.24	0 100 100	81, 104, 137, 156	0
1	GF	166/166 (100%)	-0.24	2 (1%) 79 66	80, 100, 136, 151	0
1	GG	166/166 (100%)	-0.20	4 (2%) 59 42	75, 103, 133, 149	0
1	GH	166/166 (100%)	-0.19	1 (0%) 89 81	76, 101, 138, 162	0
1	GI	166/166 (100%)	-0.21	0 100 100	77, 100, 138, 153	0
1	GJ	166/166 (100%)	0.09	2 (1%) 79 66	76, 97, 138, 150	0
1	GK	166/166 (100%)	0.08	2 (1%) 79 66	76, 98, 134, 178	0
1	GL	166/166 (100%)	-0.05	1 (0%) 89 81	79, 100, 130, 148	0
1	GM	166/166 (100%)	-0.08	1 (0%) 89 81	76, 102, 127, 158	0
1	GN	166/166 (100%)	-0.14	2 (1%) 79 66	80, 103, 133, 171	0
1	GO	166/166 (100%)	-0.28	0 100 100	77, 99, 128, 154	0
1	GP	166/166 (100%)	-0.20	2 (1%) 79 66	76, 101, 136, 166	0
1	GQ	166/166 (100%)	-0.18	1 (0%) 89 81	75, 99, 125, 158	0
1	GR	166/166 (100%)	-0.26	0 100 100	75, 100, 137, 171	0
1	GS	166/166 (100%)	-0.28	0 100 100	75, 98, 123, 150	0
1	GT	166/166 (100%)	-0.15	2 (1%) 79 66	75, 97, 135, 166	0
1	GU	166/166 (100%)	-0.23	0 100 100	76, 97, 123, 140	0
1	GV	166/166 (100%)	-0.20	0 100 100	76, 97, 127, 170	0
1	GW	166/166 (100%)	-0.15	1 (0%) 89 81	76, 96, 121, 156	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	GX	166/166 (100%)	-0.17	0 100 100	76, 97, 133, 170	0
1	GY	166/166 (100%)	-0.16	2 (1%) 79 66	78, 105, 138, 151	0
1	GZ	166/166 (100%)	-0.17	1 (0%) 89 81	81, 104, 137, 156	0
1	HA	166/166 (100%)	-0.16	0 100 100	80, 100, 136, 151	0
1	HB	166/166 (100%)	-0.22	3 (1%) 68 53	75, 103, 133, 149	0
1	HC	166/166 (100%)	-0.07	1 (0%) 89 81	76, 101, 138, 162	0
1	HD	166/166 (100%)	-0.10	1 (0%) 89 81	77, 100, 138, 153	0
1	HE	166/166 (100%)	-0.02	5 (3%) 50 34	76, 97, 138, 150	0
1	HF	166/166 (100%)	-0.02	4 (2%) 59 42	76, 98, 134, 178	0
1	HG	166/166 (100%)	0.04	0 100 100	79, 100, 130, 148	0
1	HH	166/166 (100%)	-0.23	0 100 100	76, 102, 127, 158	0
1	HI	166/166 (100%)	-0.23	0 100 100	80, 103, 133, 171	0
1	HJ	166/166 (100%)	-0.20	0 100 100	77, 99, 128, 154	0
1	HK	166/166 (100%)	-0.16	2 (1%) 79 66	76, 101, 136, 166	0
1	HL	166/166 (100%)	-0.37	1 (0%) 89 81	75, 99, 125, 158	0
1	HM	166/166 (100%)	-0.27	1 (0%) 89 81	75, 100, 137, 171	0
1	HN	166/166 (100%)	-0.29	2 (1%) 79 66	75, 98, 123, 150	0
1	HO	166/166 (100%)	-0.22	2 (1%) 79 66	75, 97, 135, 166	0
1	HP	166/166 (100%)	-0.23	0 100 100	76, 97, 123, 140	0
1	HQ	166/166 (100%)	-0.17	2 (1%) 79 66	76, 97, 127, 170	0
1	HR	166/166 (100%)	-0.30	1 (0%) 89 81	76, 96, 121, 156	0
1	HS	166/166 (100%)	-0.35	0 100 100	76, 97, 133, 170	0
1	HT	166/166 (100%)	-0.04	6 (3%) 42 28	78, 105, 138, 151	0
1	HU	166/166 (100%)	-0.10	2 (1%) 79 66	81, 104, 137, 156	0
1	HV	166/166 (100%)	-0.19	0 100 100	80, 100, 136, 151	0
1	HW	166/166 (100%)	-0.14	2 (1%) 79 66	75, 103, 133, 149	0
1	HX	166/166 (100%)	-0.14	1 (0%) 89 81	76, 101, 138, 162	0
1	HY	166/166 (100%)	-0.21	4 (2%) 59 42	77, 100, 138, 153	0
1	HZ	166/166 (100%)	-0.20	3 (1%) 68 53	76, 97, 138, 150	0
1	IA	166/166 (100%)	-0.21	2 (1%) 79 66	76, 98, 134, 178	0
1	IB	166/166 (100%)	-0.24	0 100 100	79, 100, 130, 148	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å^2)	Q<0.9
All	All	34860/34860 (100%)	-0.19	190 (0%)	91	83	75, 100, 135, 178	0

All (190) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	EU	37	GLN	5.2
1	DE	37	GLN	5.0
1	CF	37	GLN	4.8
1	GJ	37	GLN	4.7
1	FO	37	GLN	4.6
1	BM	1	SER	4.5
1	FJ	114	PRO	4.5
1	DA	37	GLN	4.4
1	HD	37	GLN	4.4
1	CJ	37	GLN	4.2
1	ER	37	GLN	4.1
1	DZ	37	GLN	4.1
1	IA	37	GLN	4.0
1	GT	39	LYS	3.7
1	GK	37	GLN	3.6
1	AU	1	SER	3.6
1	AA	1	SER	3.6
1	HT	37	GLN	3.5
1	CG	37	GLN	3.4
1	HE	37	GLN	3.4
1	HB	37	GLN	3.4
1	HF	37	GLN	3.3
1	ET	37	GLN	3.3
1	HO	39	LYS	3.2
1	BI	37	GLN	3.2
1	BJ	1	SER	3.2
1	DQ	1	SER	3.2
1	AJ	96	TRP	3.2
1	DG	1	SER	3.2
1	GP	39	LYS	3.2
1	BM	37	GLN	3.1
1	EZ	107	LEU	3.1
1	BN	39	LYS	3.1
1	GG	39	LYS	3.1
1	HU	114	PRO	3.0
1	AE	1	SER	3.0
1	FM	113	CYS	3.0

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Mol	Chain	Res	Type	RSRZ
1	DC	37	GLN	3.0
1	AS	99	GLN	3.0
1	BY	74	GLN	3.0
1	AF	39	LYS	2.9
1	HK	105	THR	2.9
1	CZ	37	GLN	2.9
1	HE	113	CYS	2.9
1	AH	106	GLY	2.8
1	EP	37	GLN	2.8
1	EQ	1	SER	2.8
1	GD	39	LYS	2.8
1	DX	114	PRO	2.8
1	DT	37	GLN	2.8
1	AK	1	SER	2.8
1	FY	39	LYS	2.7
1	FK	37	GLN	2.7
1	FU	106	GLY	2.7
1	HT	74	GLN	2.7
1	DE	36	SER	2.7
1	FJ	37	GLN	2.7
1	GT	106	GLY	2.7
1	CC	37	GLN	2.6
1	GN	1	SER	2.6
1	GG	113	CYS	2.6
1	AS	37	GLN	2.6
1	CS	106	GLY	2.6
1	AS	98	THR	2.5
1	DS	17	LEU	2.5
1	HO	37	GLN	2.5
1	HY	39	LYS	2.5
1	BH	39	LYS	2.5
1	DM	1	SER	2.5
1	EN	39	LYS	2.5
1	CI	37	GLN	2.5
1	AU	75	ASN	2.5
1	BN	114	PRO	2.5
1	GQ	1	SER	2.5
1	GG	112	ASP	2.5
1	EY	1	SER	2.5
1	IA	114	PRO	2.5
1	ED	75	ASN	2.5
1	FJ	158	CYS	2.5

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Mol	Chain	Res	Type	RSRZ
1	EX	114	PRO	2.5
1	BL	98	THR	2.4
1	BM	4	GLN	2.4
1	FU	1	SER	2.4
1	HE	112	ASP	2.4
1	CI	107	LEU	2.4
1	HT	89	ARG	2.4
1	GY	1	SER	2.4
1	HQ	112	ASP	2.4
1	AJ	113	CYS	2.4
1	GC	39	LYS	2.4
1	HZ	1	SER	2.4
1	BN	98	THR	2.4
1	AY	107	LEU	2.4
1	GN	107	LEU	2.4
1	AL	62	ASN	2.4
1	HW	37	GLN	2.4
1	DD	98	THR	2.4
1	GG	37	GLN	2.4
1	AS	110	ILE	2.3
1	FS	37	GLN	2.3
1	AD	39	LYS	2.3
1	HN	75	ASN	2.3
1	DT	137	THR	2.3
1	DH	106	GLY	2.3
1	GM	82	SER	2.3
1	GL	1	SER	2.3
1	AN	114	PRO	2.3
1	HF	99	GLN	2.3
1	AU	67	VAL	2.3
1	ET	107	LEU	2.3
1	FI	122	GLY	2.3
1	DW	124	ALA	2.3
1	AF	107	LEU	2.3
1	DN	96	TRP	2.3
1	GZ	114	PRO	2.3
1	CL	84	LYS	2.3
1	FM	114	PRO	2.3
1	AN	112	ASP	2.2
1	AT	108	PRO	2.2
1	FJ	113	CYS	2.2
1	DP	96	TRP	2.2

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Mol	Chain	Res	Type	RSRZ
1	FP	37	GLN	2.2
1	HW	39	LYS	2.2
1	HT	122	GLY	2.2
1	FM	98	THR	2.2
1	EF	1	SER	2.2
1	EM	113	CYS	2.2
1	GF	37	GLN	2.2
1	CH	82	SER	2.2
1	HX	125	ASP	2.2
1	HQ	113	CYS	2.2
1	HU	39	LYS	2.2
1	FN	114	PRO	2.2
1	DY	39	LYS	2.2
1	FY	121	LEU	2.2
1	CO	39	LYS	2.2
1	HE	38	GLY	2.2
1	FV	1	SER	2.2
1	BK	37	GLN	2.2
1	EO	114	PRO	2.2
1	CL	65	ASP	2.2
1	CL	1	SER	2.2
1	HY	37	GLN	2.2
1	AJ	1	SER	2.2
1	BK	13	GLU	2.2
1	DH	107	LEU	2.1
1	ED	1	SER	2.1
1	EW	1	SER	2.1
1	BO	37	GLN	2.1
1	HB	1	SER	2.1
1	HL	1	SER	2.1
1	EL	1	SER	2.1
1	GH	102	ASP	2.1
1	AY	39	LYS	2.1
1	GY	37	GLN	2.1
1	HB	43	THR	2.1
1	HF	98	THR	2.1
1	BH	114	PRO	2.1
1	EU	36	SER	2.1
1	GW	1	SER	2.1
1	DV	139	GLU	2.1
1	HM	36	SER	2.1
1	EX	8	TYR	2.1

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Mol	Chain	Res	Type	RSRZ
1	GK	115	LEU	2.1
1	HF	101	THR	2.1
1	HZ	37	GLN	2.1
1	DS	1	SER	2.1
1	HK	107	LEU	2.1
1	CX	37	GLN	2.1
1	HR	69	LYS	2.1
1	CI	106	GLY	2.1
1	HT	26	LEU	2.1
1	AY	112	ASP	2.1
1	GF	158	CYS	2.1
1	GJ	158	CYS	2.1
1	HY	81	SER	2.1
1	GP	113	CYS	2.1
1	DI	1	SER	2.0
1	DS	39	LYS	2.0
1	HY	114	PRO	2.0
1	DS	74	GLN	2.0
1	HN	74	GLN	2.0
1	HE	107	LEU	2.0
1	AS	107	LEU	2.0
1	BK	5	SER	2.0
1	HZ	2	TYR	2.0
1	FO	65	ASP	2.0
1	HT	88	ILE	2.0
1	HC	114	PRO	2.0
1	AA	18	GLU	2.0

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

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

6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

6.4 Ligands (i)

There are no ligands in this entry.

6.5 Other polymers (i)

There are no such residues in this entry.