Full wwPDB X-ray Structure Validation Report (i)

May 27, 2024 – 06:29 PM EDT

PDB ID	:	4V5W
Title	:	Grapevine Fanleaf virus
Authors	:	Schellenberger, P.; Demangeat, G.; Ritzenthaler, C.; Lorber, B.; Sauter, C.
Deposited on	:	2011-05-10
Resolution	:	3.70 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 (i) 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 (i)) were used in the production of this report:

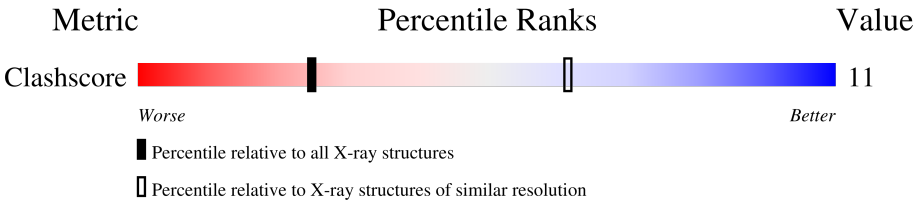
MolProbity	:	4.02b-467
Xtriage (Phenix)	:	1.13
EDS	:	FAILED
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36.2

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 3.70 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))
Clashscore	141614	1027 (3.86-3.54)

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%

Note EDS failed to run properly.

Mol	Chain	Length	Quality of chain
1	AA	504	82% 17% •
1	AB	504	83% 17% •
1	AC	504	84% 16% •
1	AD	504	85% 15%
1	AE	504	85% 14%
1	AF	504	82% 17% •
1	AG	504	80% 20% •
1	AH	504	81% 18% •
1	AI	504	82% 18% •
1	AJ	504	81% 18% •

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Mol	Chain	Length	Quality of chain
1	AK	504	82% 18%
1	AL	504	82% 17%
1	AM	504	84% 16%
1	AN	504	82% 18%
1	AO	504	82% 18%
1	AP	504	84% 15%
1	AQ	504	82% 18%
1	AR	504	84% 16%
1	AS	504	85% 14%
1	AT	504	84% 15%
1	BA	504	83% 16%
1	BB	504	85% 14%
1	BC	504	83% 16%
1	BD	504	84% 16%
1	BE	504	84% 16%
1	BF	504	82% 17%
1	BG	504	84% 16%
1	BH	504	84% 15%
1	BI	504	85% 15%
1	BJ	504	84% 15%
1	BK	504	86% 13%
1	BL	504	85% 15%
1	BM	504	84% 16%
1	BN	504	84% 16%
1	BO	504	83% 16%

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Mol	Chain	Length	Quality of chain
1	BP	504	85% 14%
1	BQ	504	85% 15%
1	BR	504	84% 15%
1	BS	504	85% 15%
1	BT	504	82% 17%
1	CA	504	85% 15%
1	CB	504	83% 17%
1	CC	504	85% 14%
1	CD	504	84% 16%
1	CE	504	82% 17%
1	CF	504	84% 16%
1	CG	504	85% 15%
1	CH	504	82% 17%
1	CI	504	82% 18%
1	CJ	504	82% 18%
1	CK	504	83% 17%
1	CL	504	86% 14%
1	CM	504	84% 16%
1	CN	504	85% 14%
1	CO	504	83% 17%
1	CP	504	85% 15%
1	CQ	504	84% 15%
1	CR	504	81% 18%
1	CS	504	85% 15%
1	CT	504	86% 14%

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 237060 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	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	AB	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	AC	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	AD	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	AE	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	AF	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	AG	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	AH	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	AI	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	AJ	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	AK	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	AL	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	AM	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	AN	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	AO	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	AP	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	AQ	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	AR	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	AS	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	AT	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	BA	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	BB	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	BC	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	BD	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	BE	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	BF	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	BG	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	BH	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	BI	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	BJ	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	BK	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	BL	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	BM	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	BN	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	BO	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	BP	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	BQ	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	BR	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	BS	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	BT	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	CA	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	CB	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	CC	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	CD	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	CE	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	CF	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	CG	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	CH	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	CI	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	CJ	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	CK	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	CL	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	CM	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	CN	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	CO	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	CP	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	CQ	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	CR	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	CS	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	CT	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			

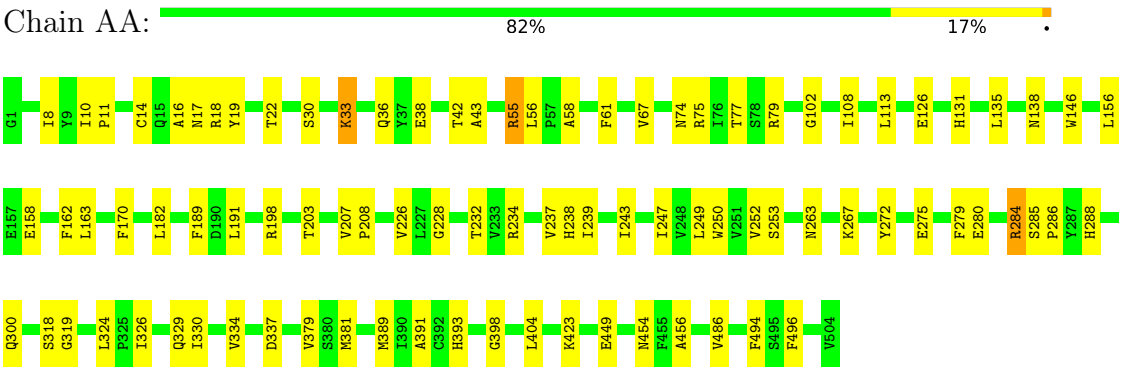
3 Residue-property plots (i)

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. 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. 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.

Note EDS failed to run properly.

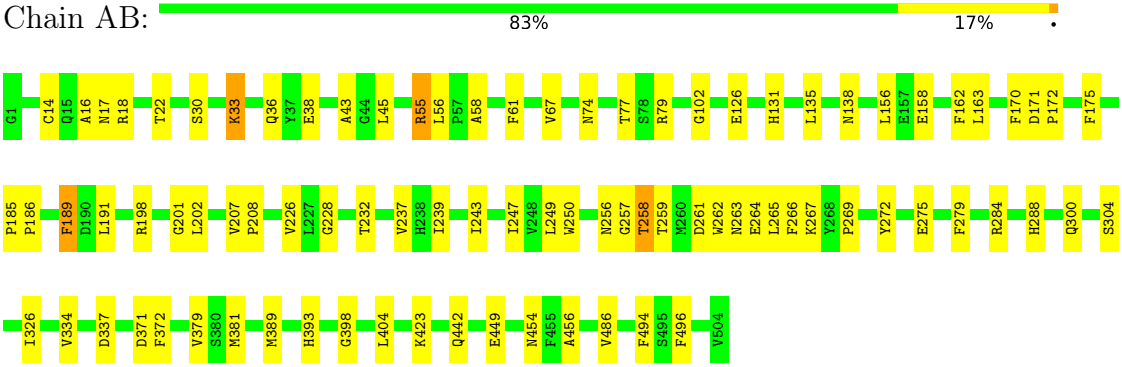
- Molecule 1: COAT PROTEIN

Chain AA:



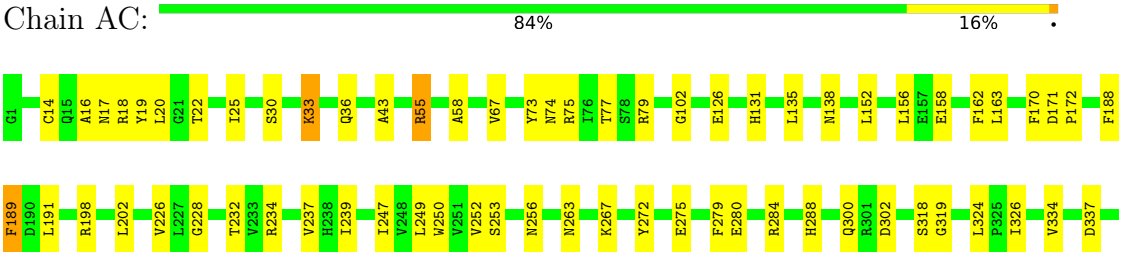
- Molecule 1: COAT PROTEIN

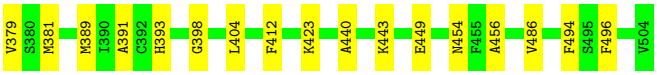
Chain AB:



- Molecule 1: COAT PROTEIN

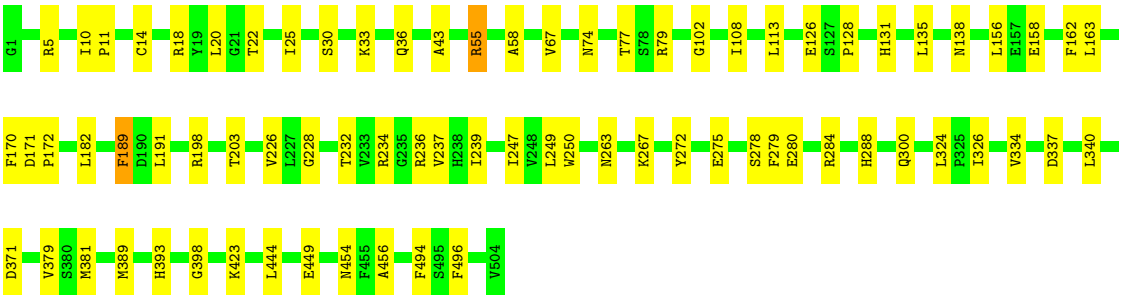
Chain AC:





• Molecule 1: COAT PROTEIN

Chain AD:

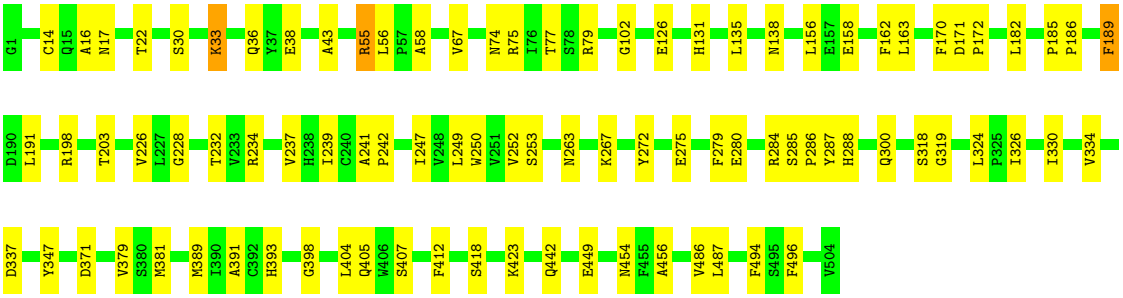


• Molecule 1: COAT PROTEIN

Chain AE:

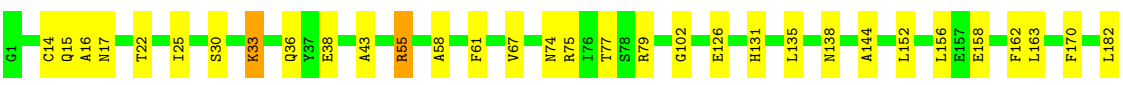
• Molecule 1: COAT PROTEIN

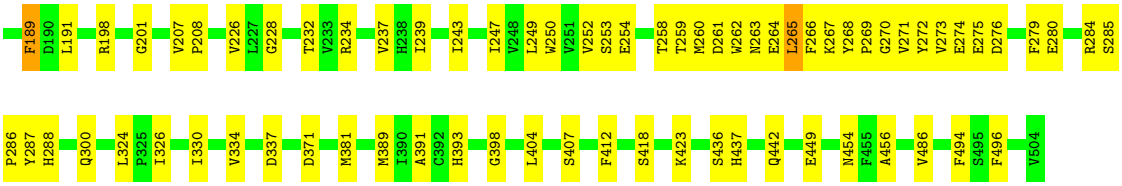
Chain AF:



• Molecule 1: COAT PROTEIN

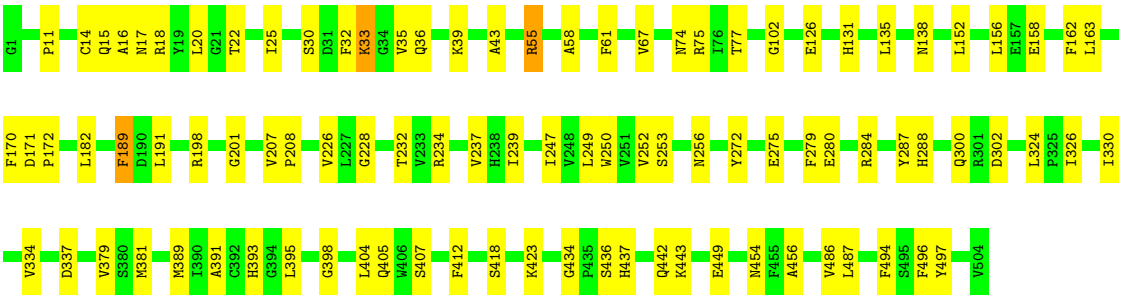
Chain AG:





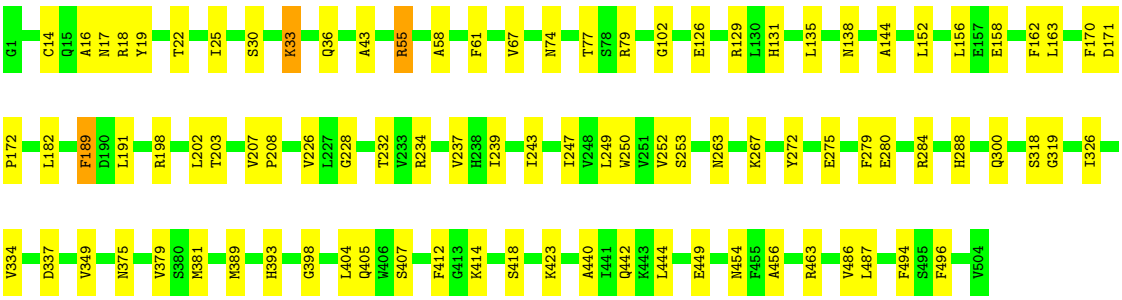
• Molecule 1: COAT PROTEIN

Chain AH:



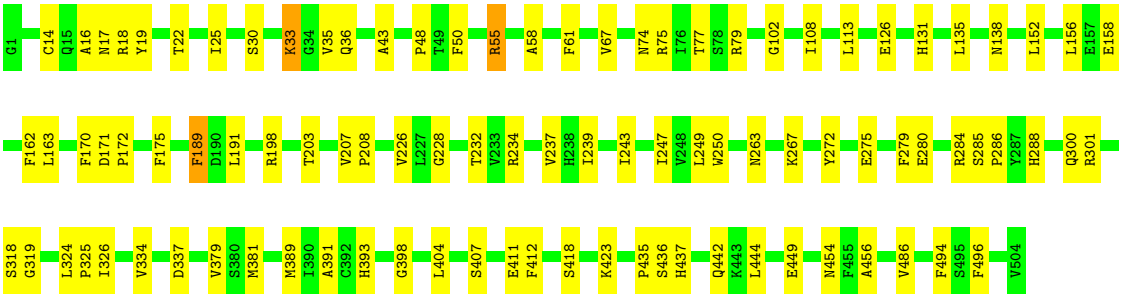
• Molecule 1: COAT PROTEIN

Chain AI:



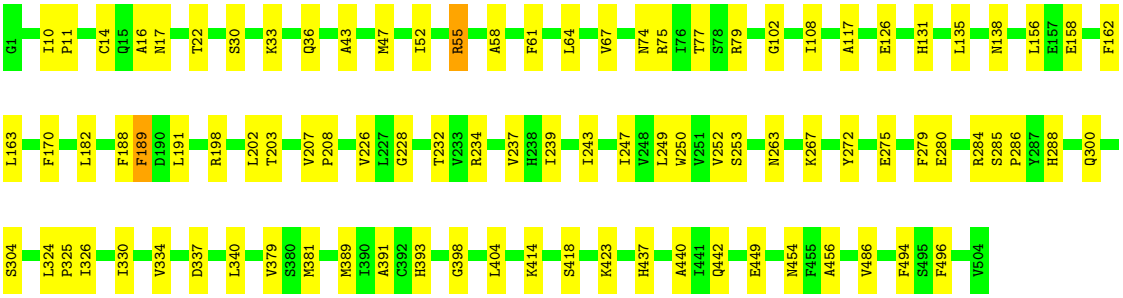
• Molecule 1: COAT PROTEIN

Chain AJ:



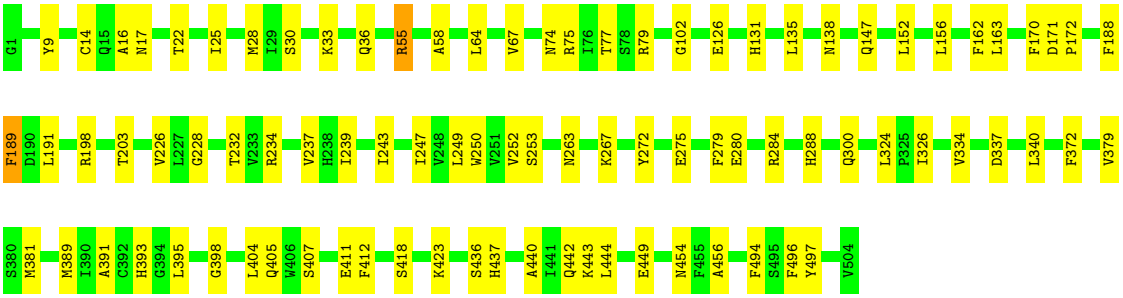
• Molecule 1: COAT PROTEIN

Chain AK:



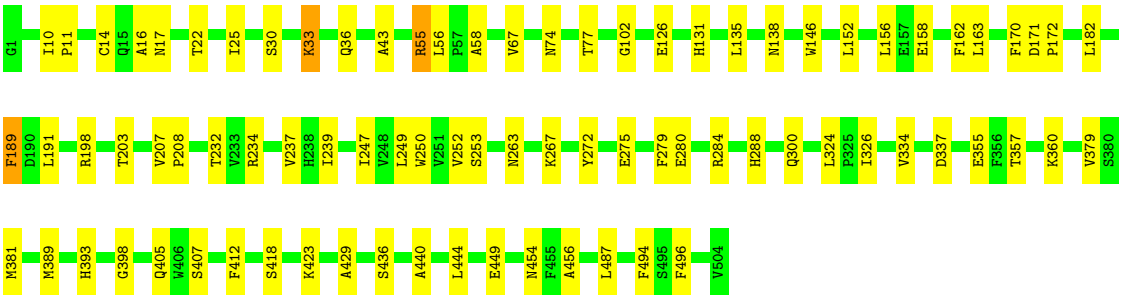
• Molecule 1: COAT PROTEIN

Chain AL:



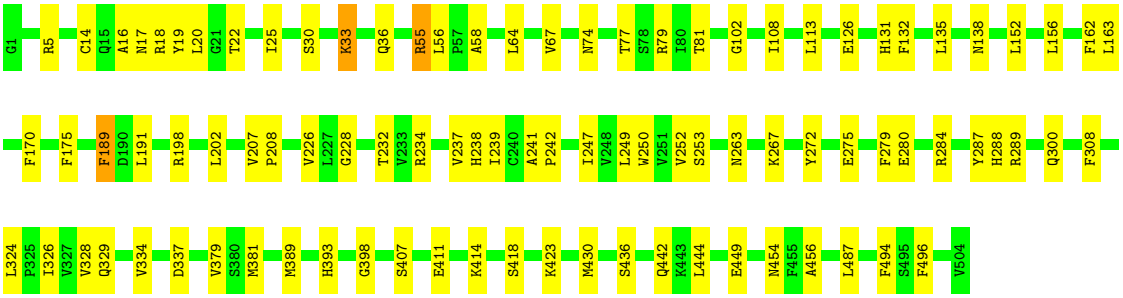
• Molecule 1: COAT PROTEIN

Chain AM:



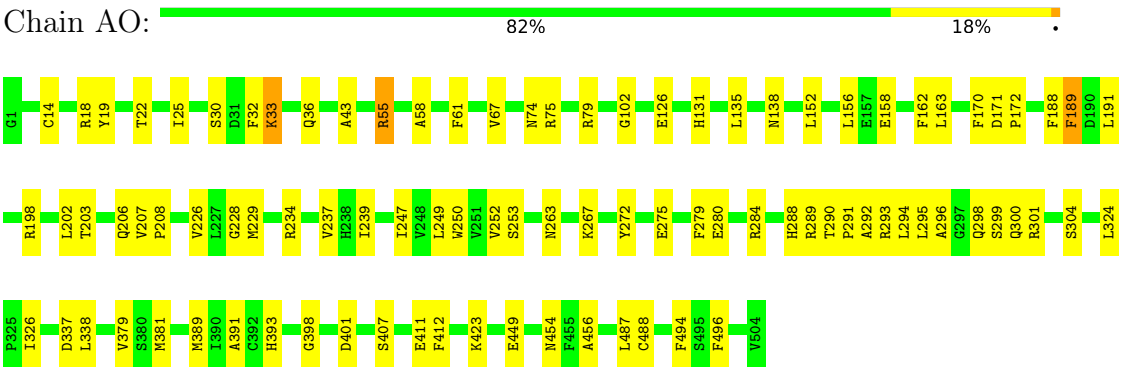
• Molecule 1: COAT PROTEIN

Chain AN:



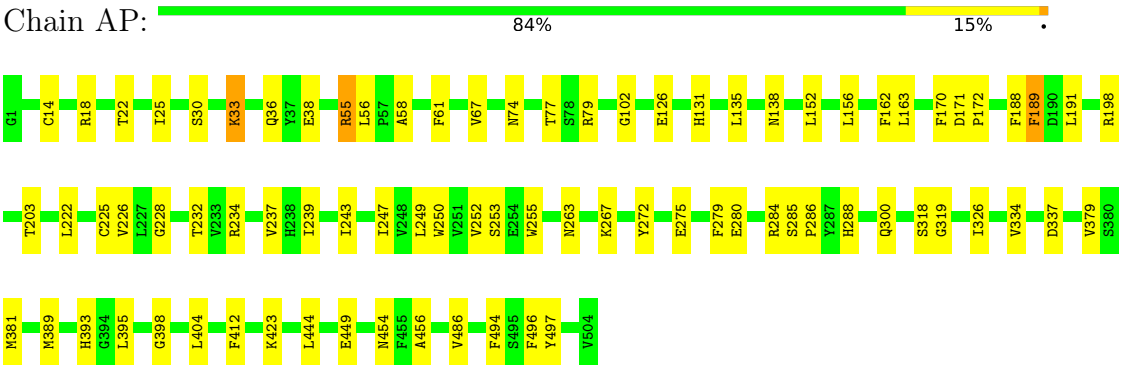
• Molecule 1: COAT PROTEIN

Chain AO:



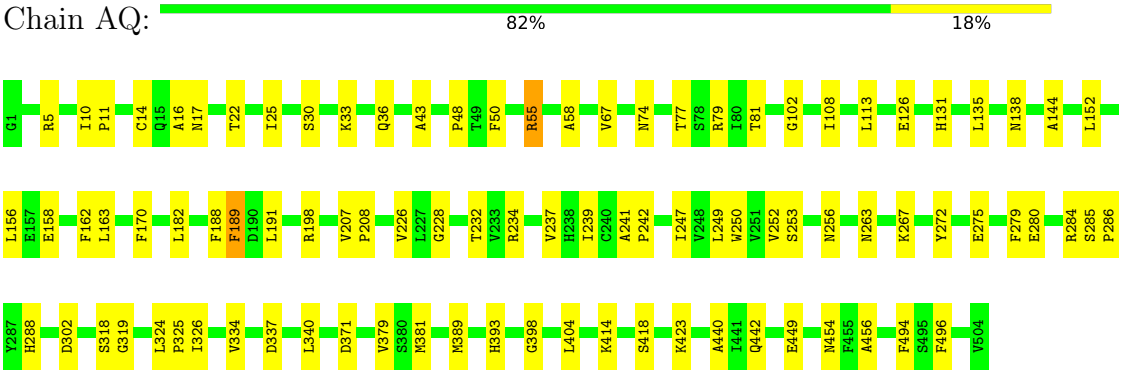
• Molecule 1: COAT PROTEIN

Chain AP:



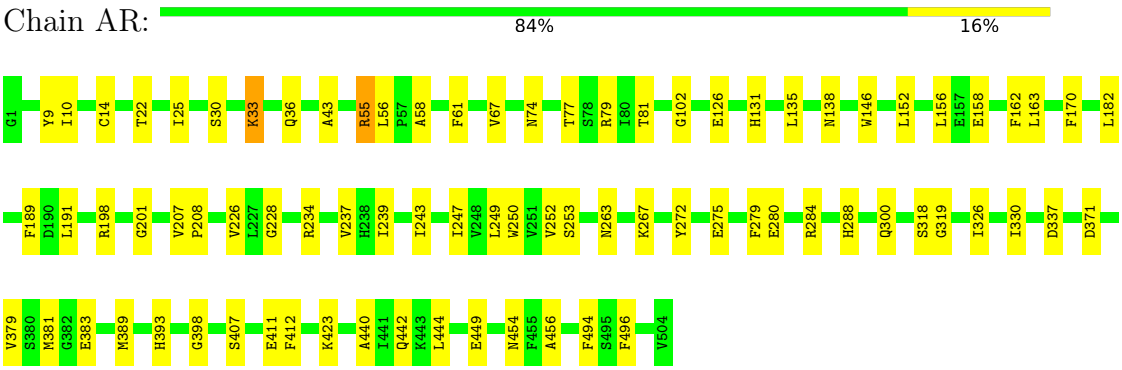
• Molecule 1: COAT PROTEIN

Chain AQ:



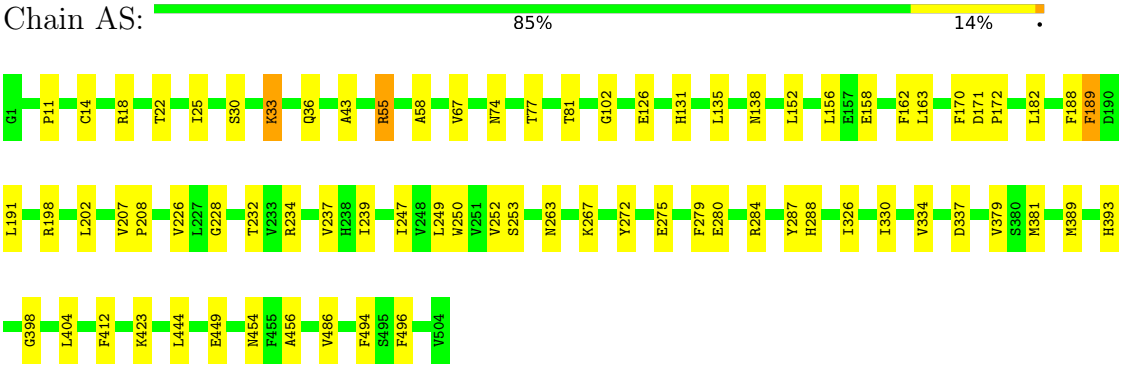
• Molecule 1: COAT PROTEIN

Chain AR:



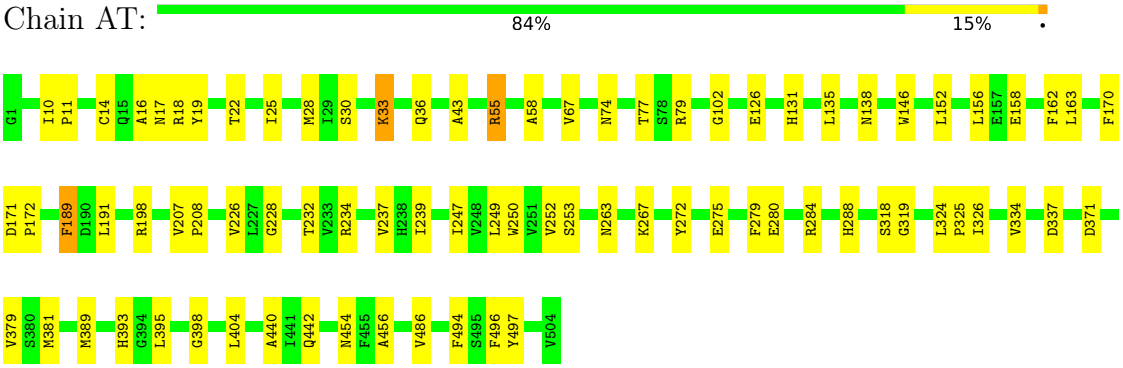
• Molecule 1: COAT PROTEIN

Chain AS:



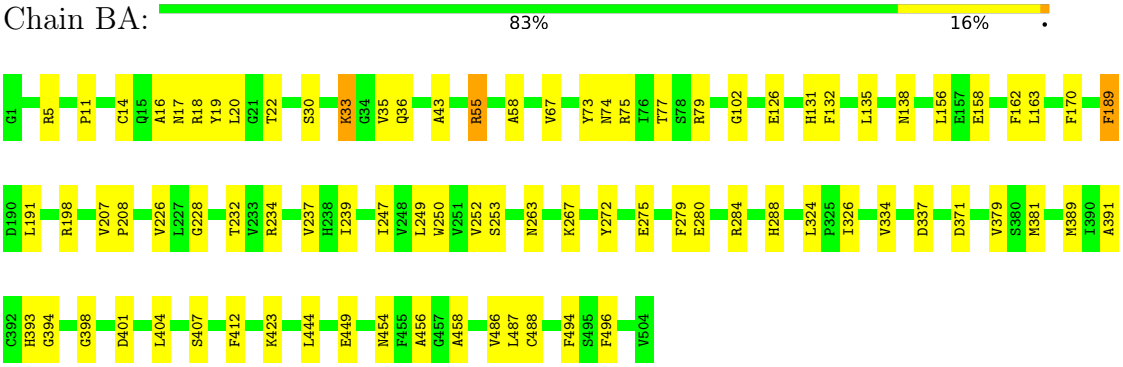
• Molecule 1: COAT PROTEIN

Chain AT:



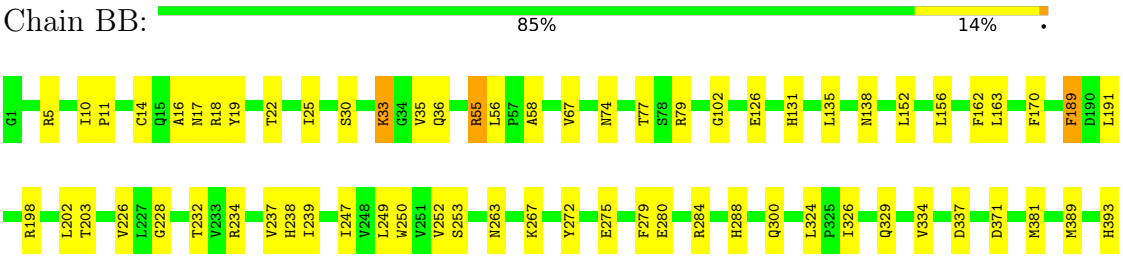
• Molecule 1: COAT PROTEIN

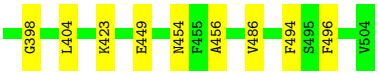
Chain BA:



• Molecule 1: COAT PROTEIN

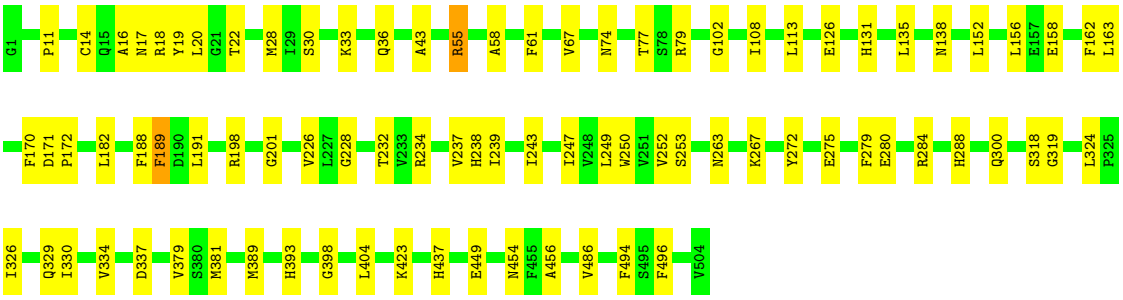
Chain BB:





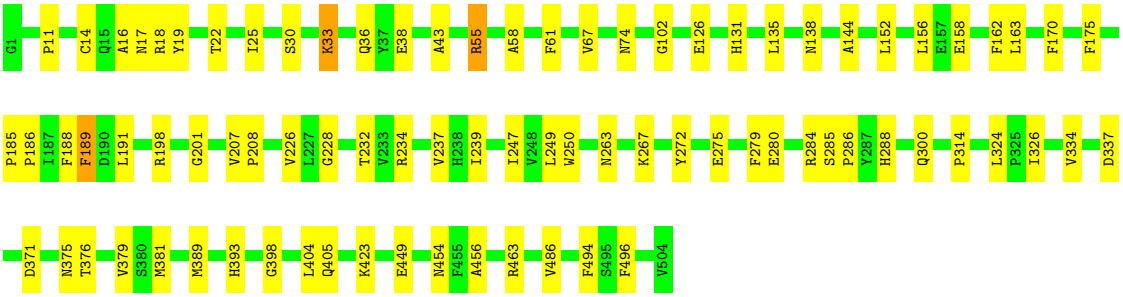
• Molecule 1: COAT PROTEIN

Chain BC:



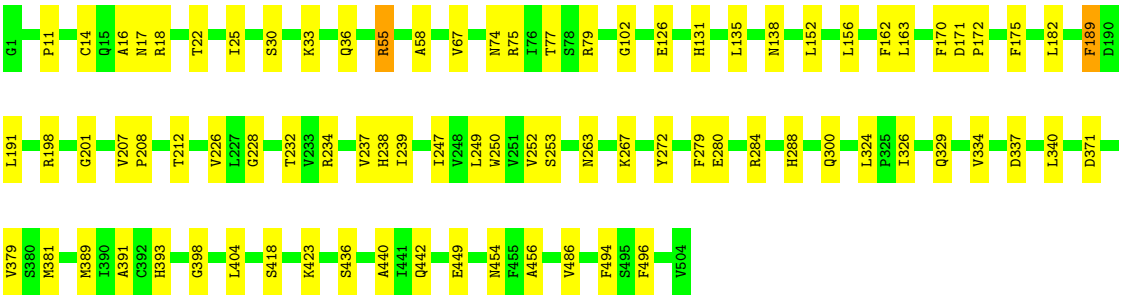
• Molecule 1: COAT PROTEIN

Chain BD:



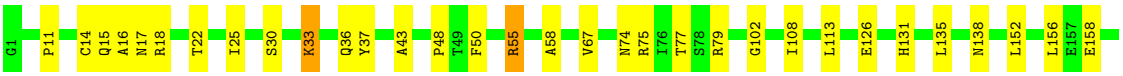
• Molecule 1: COAT PROTEIN

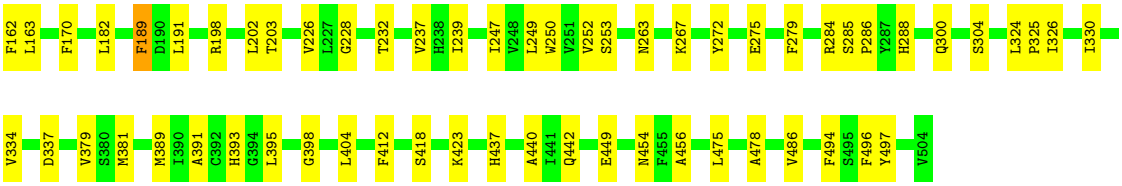
Chain BE:



• Molecule 1: COAT PROTEIN

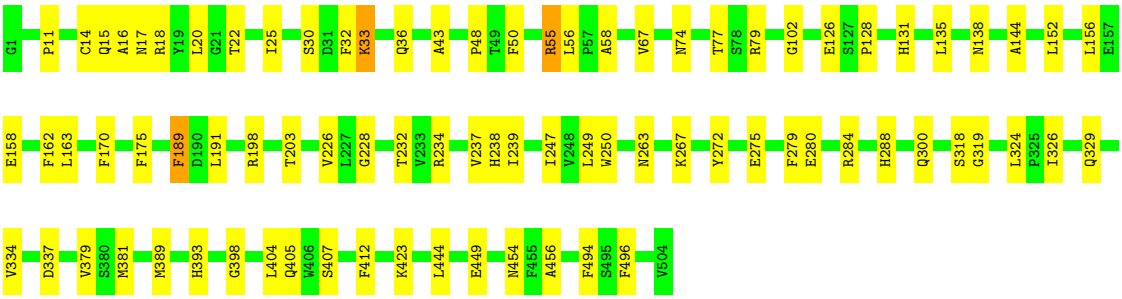
Chain BF:





• Molecule 1: COAT PROTEIN

Chain BG:

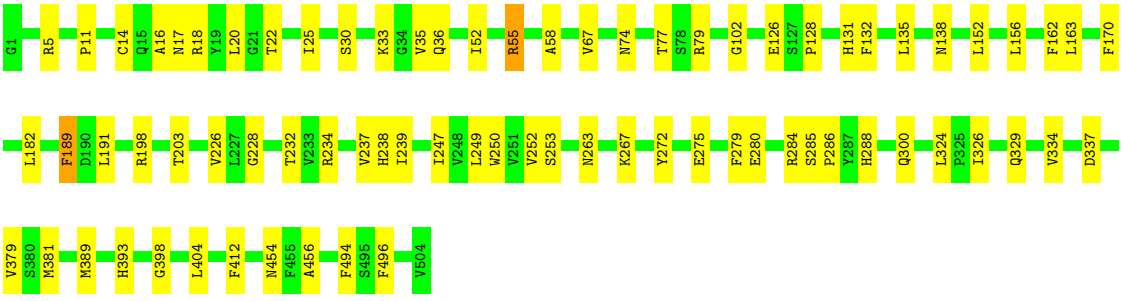


• Molecule 1: COAT PROTEIN

Chain BH:

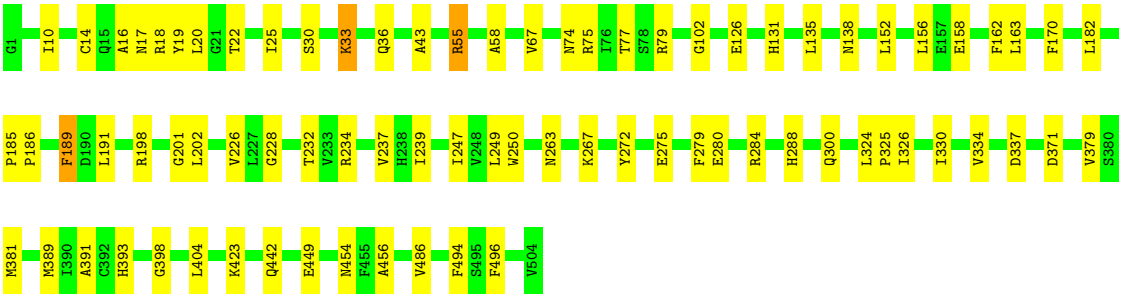
• Molecule 1: COAT PROTEIN

Chain BI:



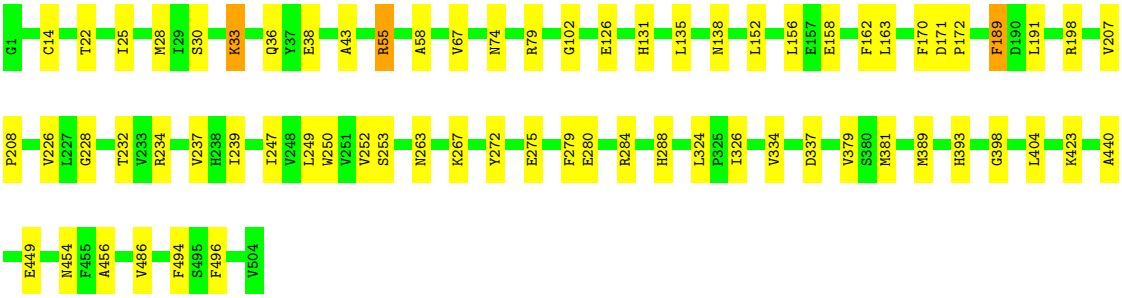
• Molecule 1: COAT PROTEIN

Chain BJ:



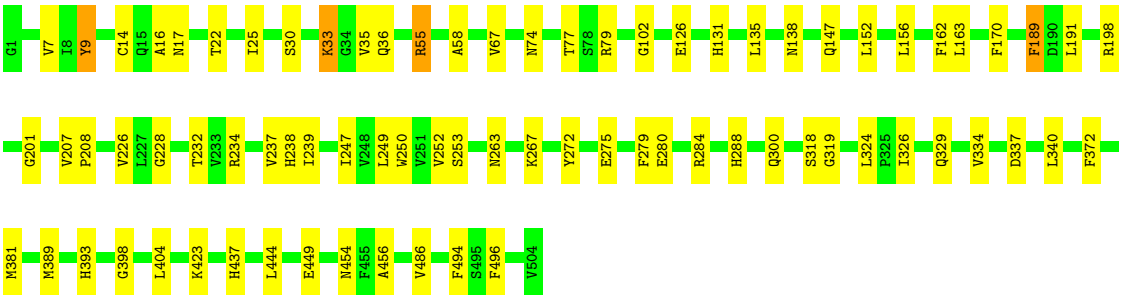
• Molecule 1: COAT PROTEIN

Chain BK:



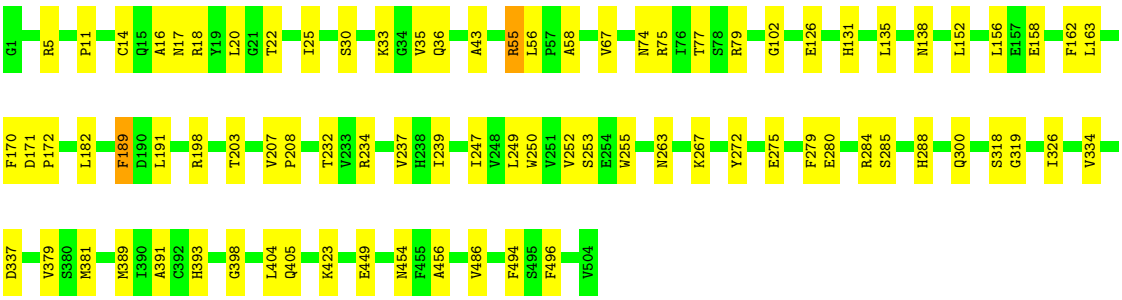
• Molecule 1: COAT PROTEIN

Chain BL:



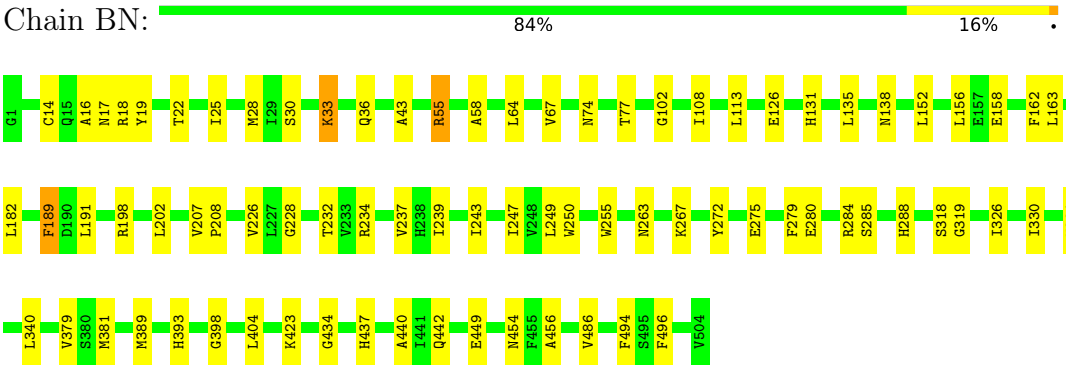
• Molecule 1: COAT PROTEIN

Chain BM:



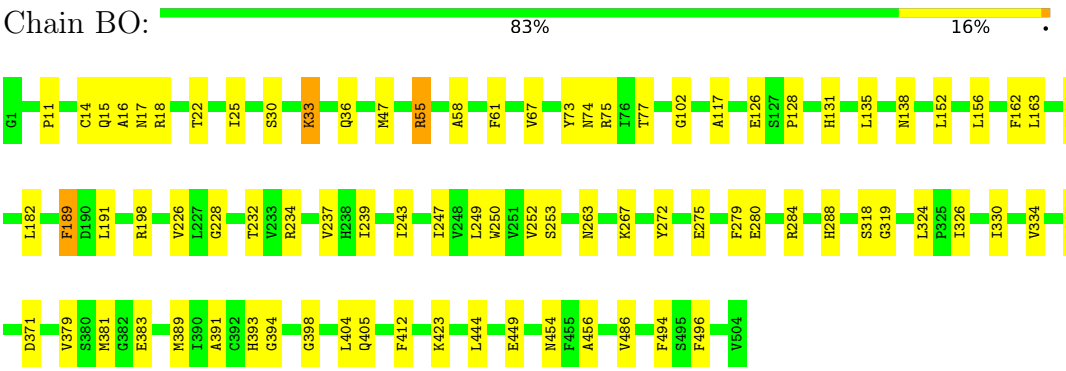
• Molecule 1: COAT PROTEIN

Chain BN:



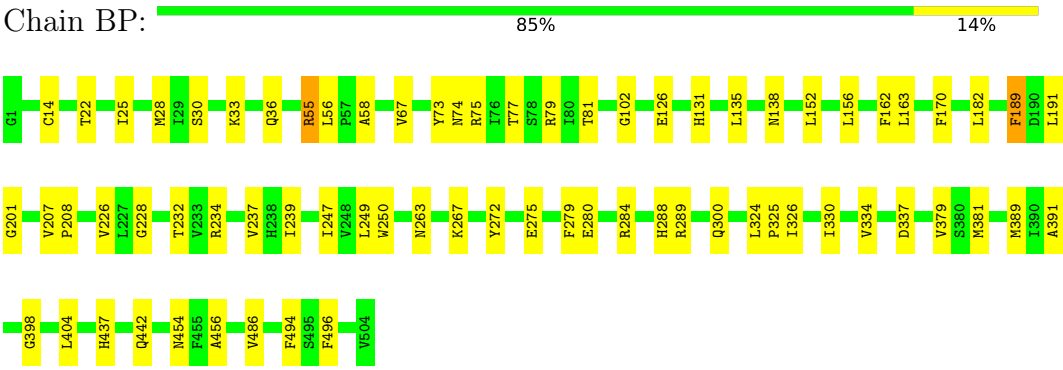
• Molecule 1: COAT PROTEIN

Chain BO:



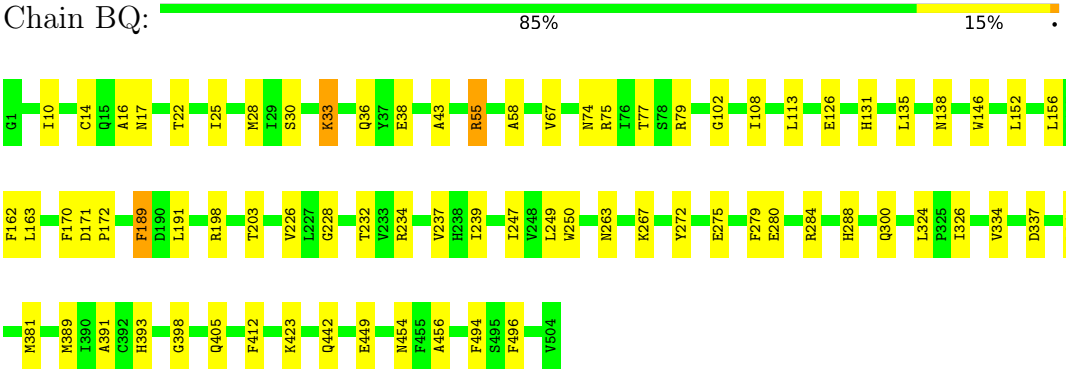
• Molecule 1: COAT PROTEIN

Chain BP:



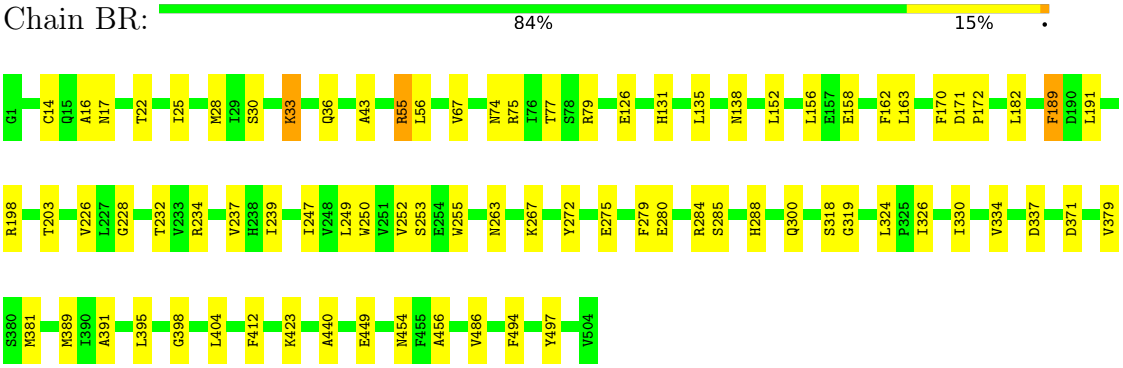
• Molecule 1: COAT PROTEIN

Chain BQ:



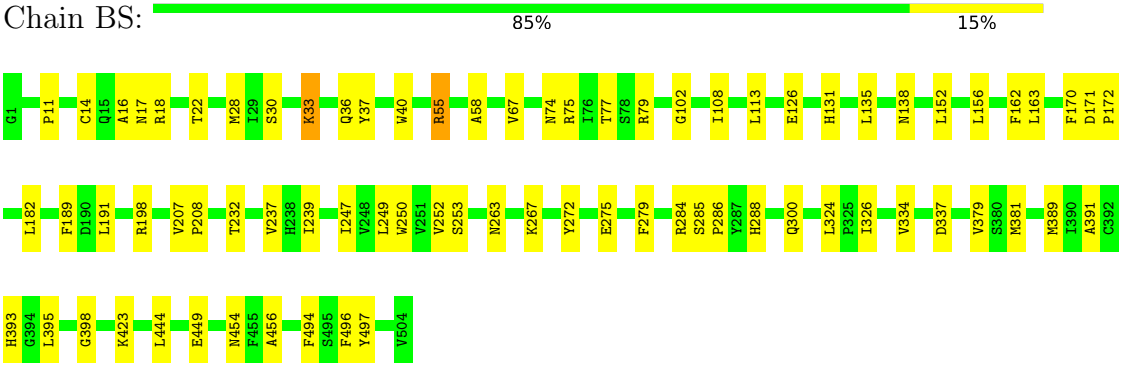
• Molecule 1: COAT PROTEIN

Chain BR:



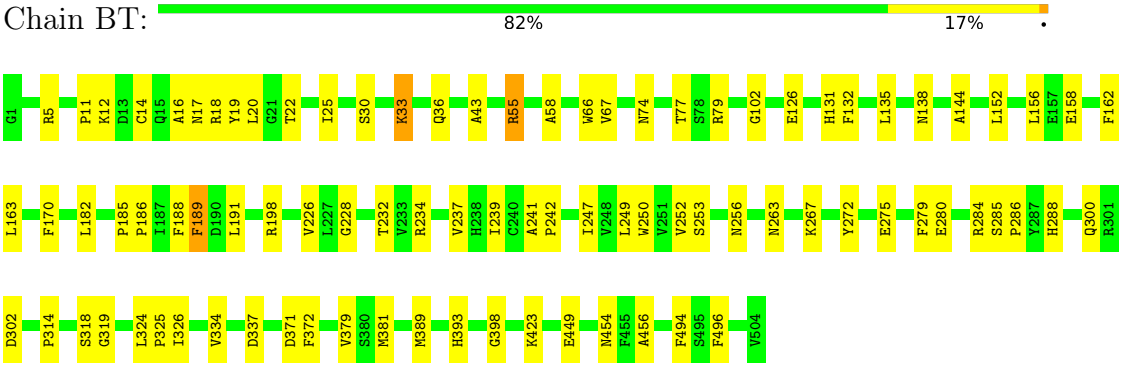
• Molecule 1: COAT PROTEIN

Chain BS:



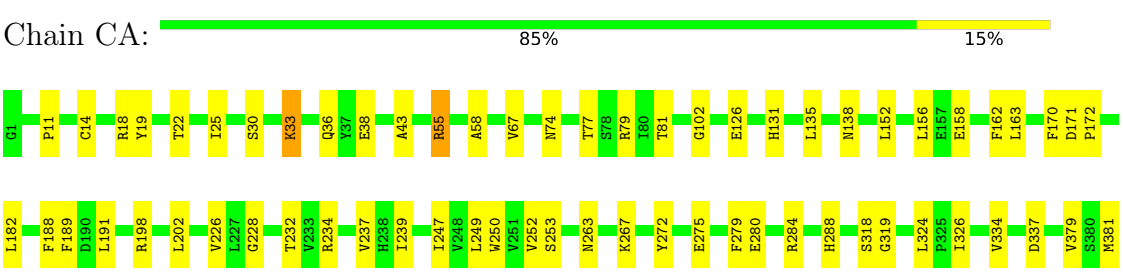
• Molecule 1: COAT PROTEIN

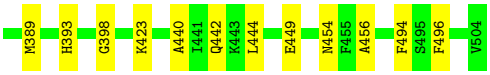
Chain BT:



• Molecule 1: COAT PROTEIN

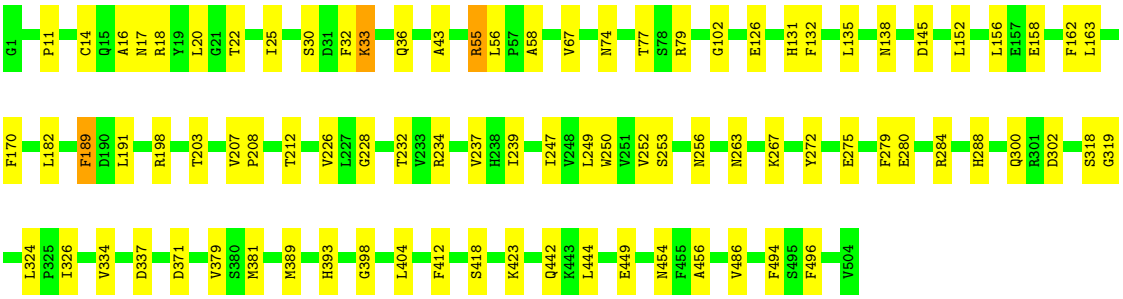
Chain CA:





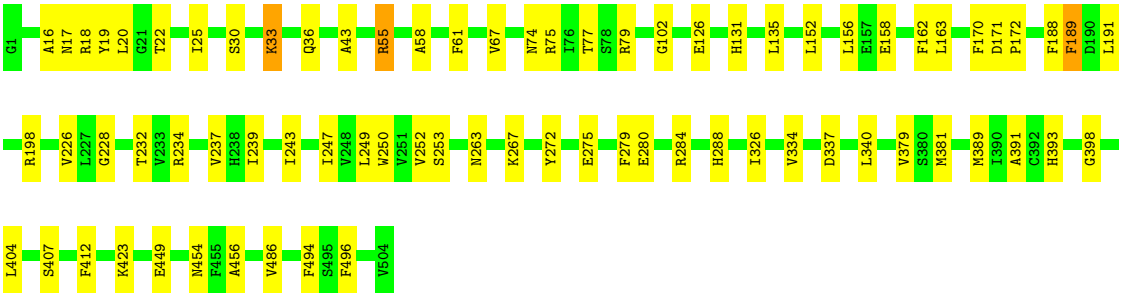
• Molecule 1: COAT PROTEIN

Chain CB:



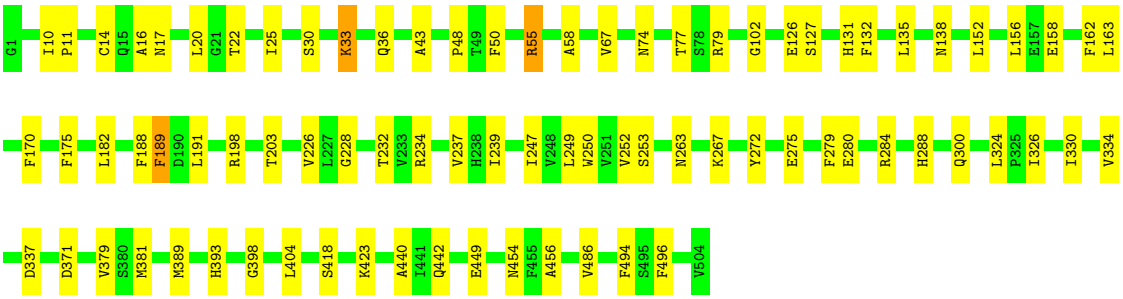
• Molecule 1: COAT PROTEIN

Chain CC:



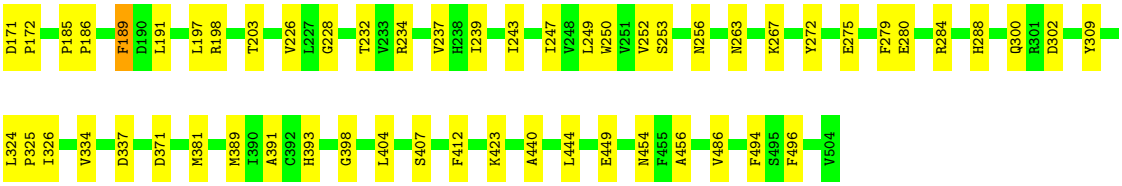
• Molecule 1: COAT PROTEIN

Chain CD:



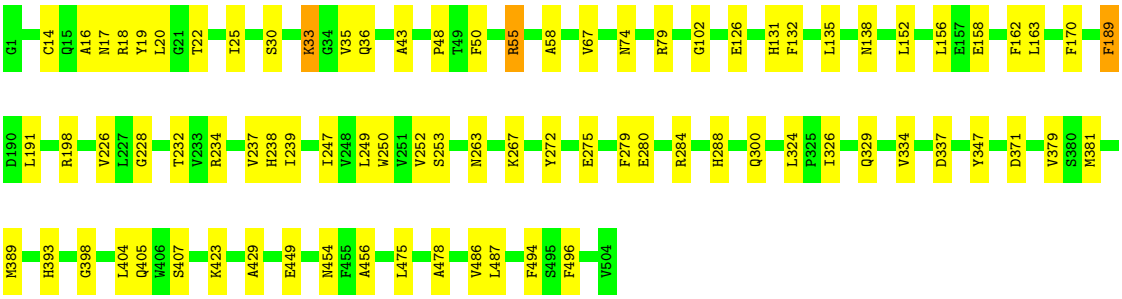
• Molecule 1: COAT PROTEIN

Chain CE:



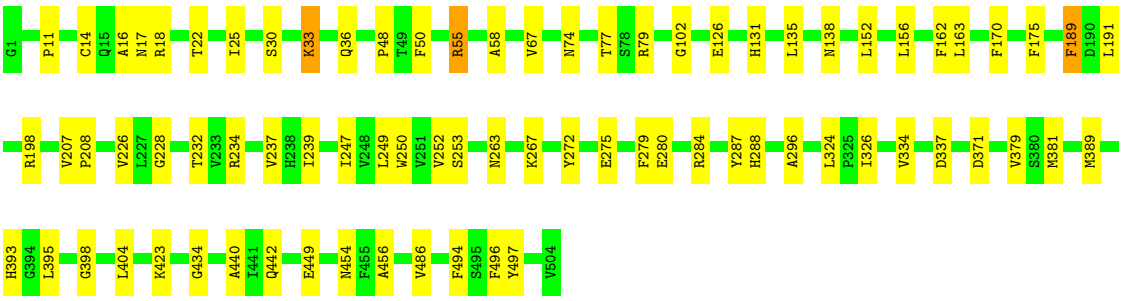
• Molecule 1: COAT PROTEIN

Chain CF:



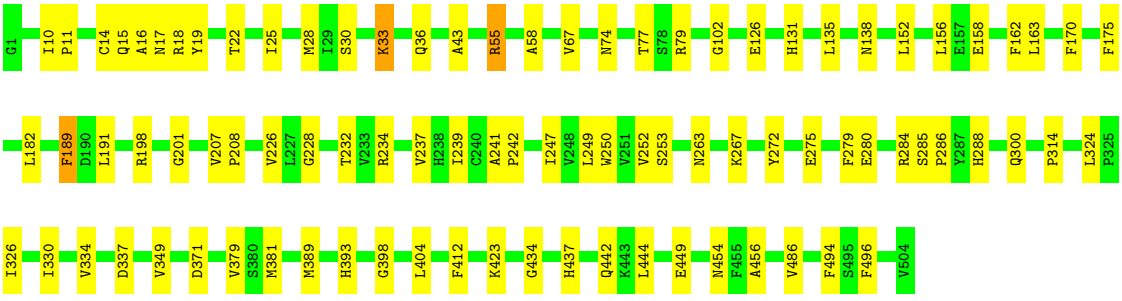
• Molecule 1: COAT PROTEIN

Chain CG:



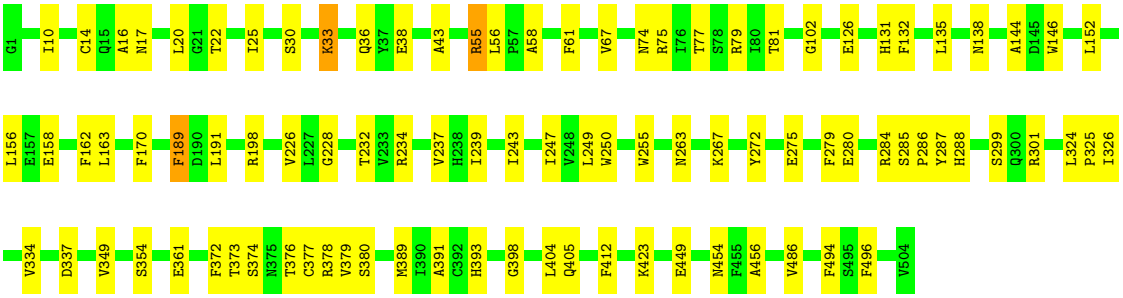
• Molecule 1: COAT PROTEIN

Chain CH:



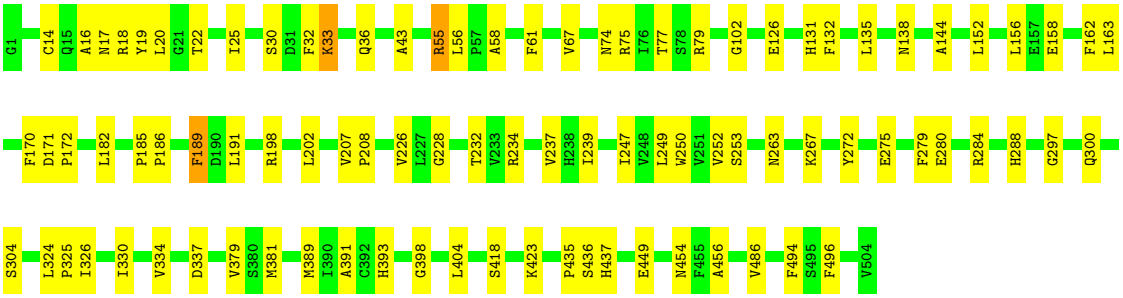
• Molecule 1: COAT PROTEIN

Chain CI:



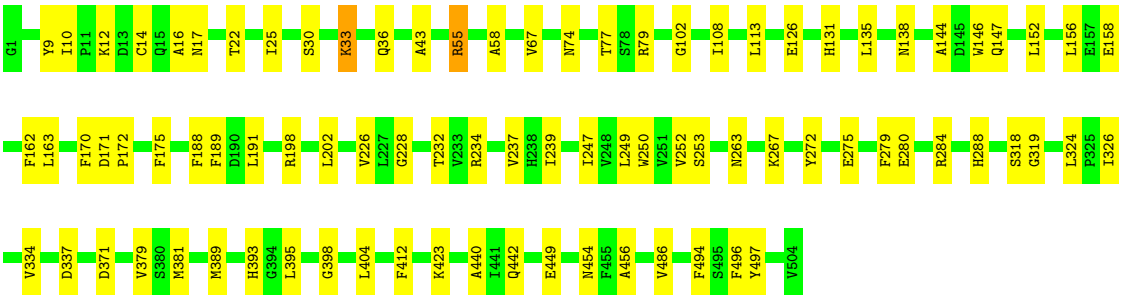
• Molecule 1: COAT PROTEIN

Chain CJ:



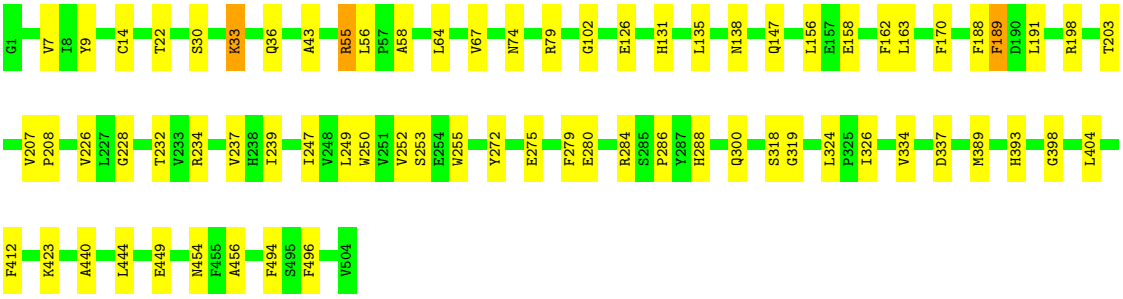
• Molecule 1: COAT PROTEIN

Chain CK:



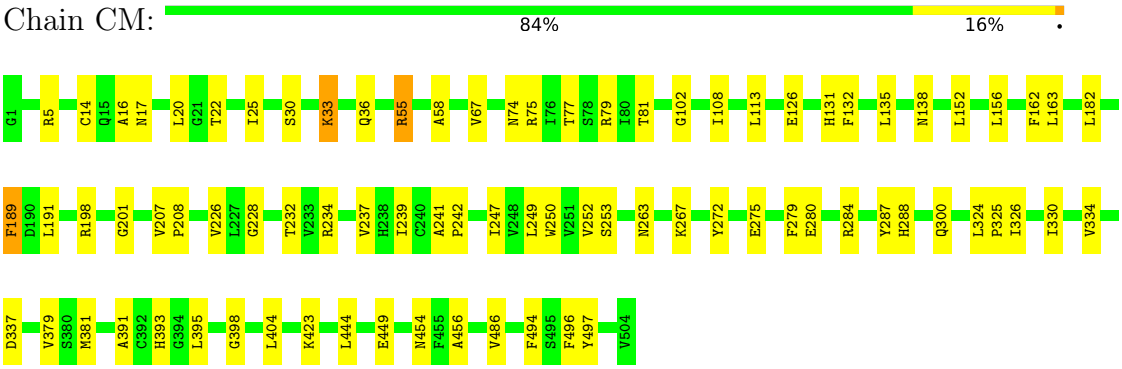
• Molecule 1: COAT PROTEIN

Chain CL:



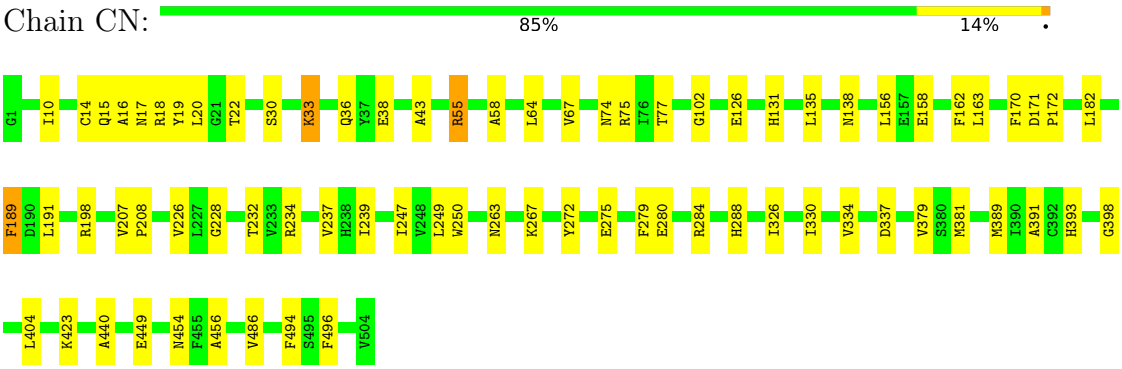
• Molecule 1: COAT PROTEIN

Chain CM:



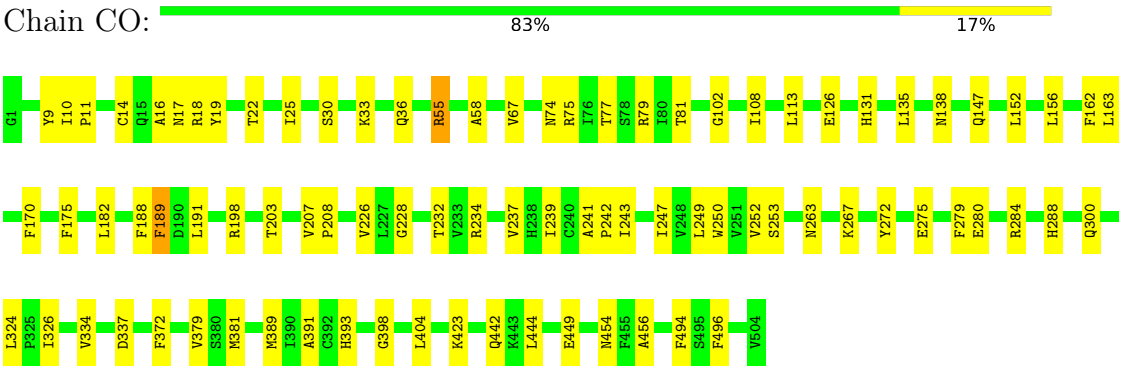
• Molecule 1: COAT PROTEIN

Chain CN:



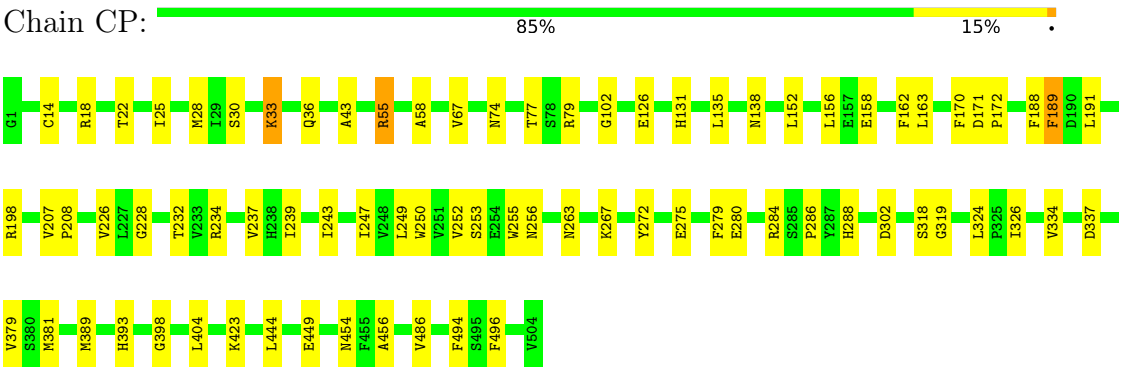
• Molecule 1: COAT PROTEIN

Chain CO:



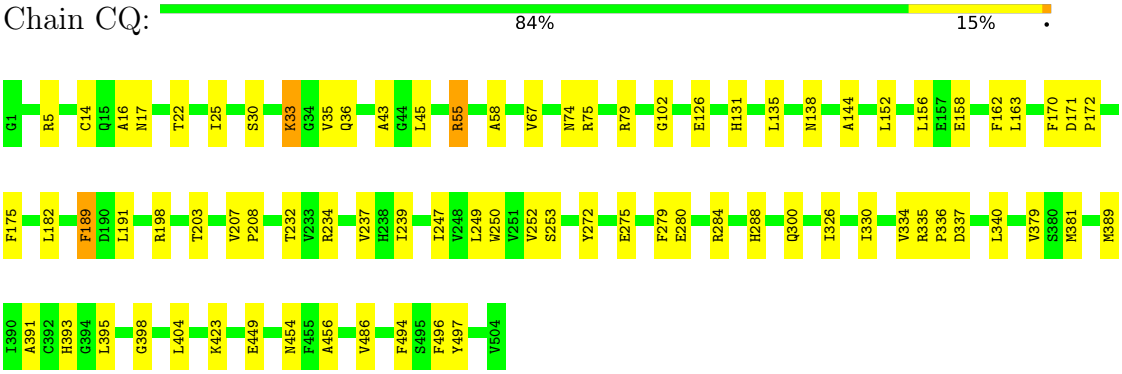
• Molecule 1: COAT PROTEIN

Chain CP:



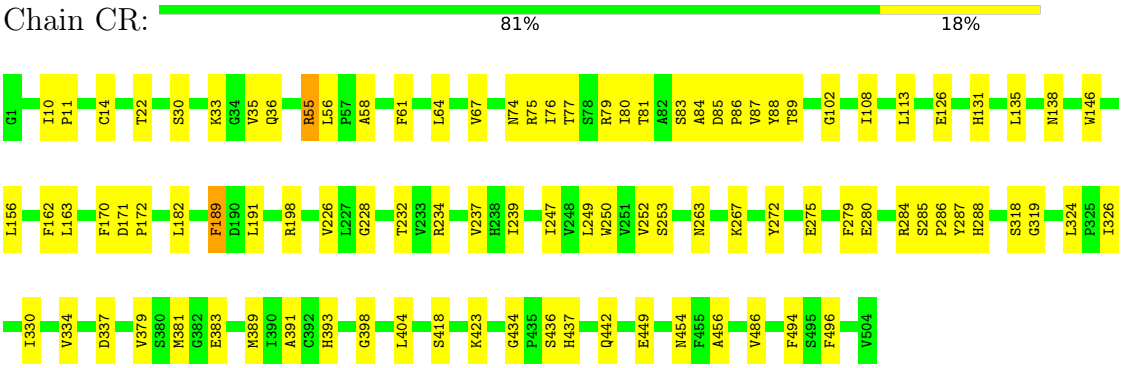
• Molecule 1: COAT PROTEIN

Chain CQ:



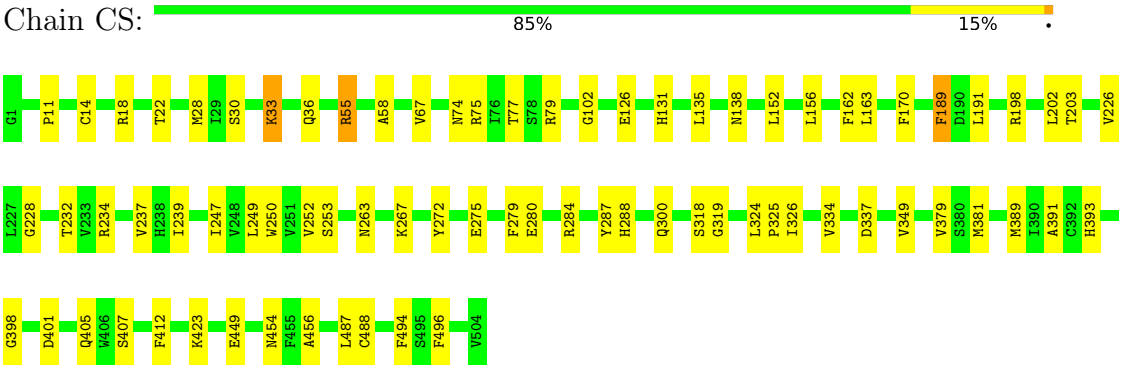
• Molecule 1: COAT PROTEIN

Chain CR:



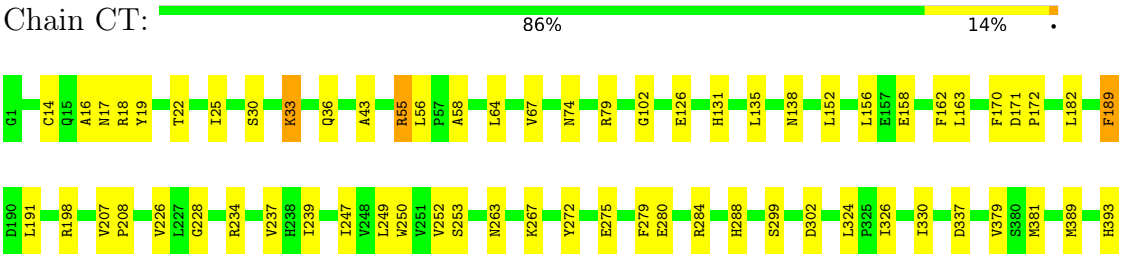
• Molecule 1: COAT PROTEIN

Chain CS:



• Molecule 1: COAT PROTEIN

Chain CT:




G398
K423
A440
E449
N454
F455
A456
F494
S495
F496
V504

4 Data and refinement statistics (i)

EDS failed to run properly - this section is therefore incomplete.

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α, β, γ	283.60Å 295.50Å 394.30Å 90.00° 91.60° 90.00°	Depositor
Resolution (Å)	49.80 – 3.70	Depositor
% Data completeness (in resolution range)	99.0 (49.80-3.70)	Depositor
R_{merge}	0.27	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.88 (at 3.67Å)	Xtriage
Refinement program	PHENIX (PHENIX.REFINE)	Depositor
R, R_{free}	0.232 , 0.247	Depositor
Wilson B-factor (Å^2)	66.2	Xtriage
Anisotropy	0.406	Xtriage
L-test for twinning[2]	$< \|L\| > = 0.38$, $< L^2 > = 0.21$	Xtriage
Estimated twinning fraction	0.088 for -k,-h,-l 0.087 for k,h,-l 0.089 for h,-k,-l	Xtriage
Total number of atoms	237060	wwPDB-VP
Average B, all atoms (Å^2)	91.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.66% 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 (i)

5.1 Standard geometry (i)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	AA	0.50	0/4058	0.62	2/5517 (0.0%)
1	AB	0.56	2/4058 (0.0%)	0.64	2/5517 (0.0%)
1	AC	0.49	2/4058 (0.0%)	0.62	0/5517
1	AD	0.50	2/4058 (0.0%)	0.62	0/5517
1	AE	0.53	2/4058 (0.0%)	0.63	1/5517 (0.0%)
1	AF	0.49	1/4058 (0.0%)	0.62	1/5517 (0.0%)
1	AG	0.59	1/4058 (0.0%)	0.65	2/5517 (0.0%)
1	AH	0.51	2/4058 (0.0%)	0.62	0/5517
1	AI	0.50	2/4058 (0.0%)	0.62	0/5517
1	AJ	0.49	1/4058 (0.0%)	0.62	0/5517
1	AK	0.49	2/4058 (0.0%)	0.61	0/5517
1	AL	0.53	2/4058 (0.0%)	0.64	0/5517
1	AM	0.51	2/4058 (0.0%)	0.62	1/5517 (0.0%)
1	AN	0.50	1/4058 (0.0%)	0.63	1/5517 (0.0%)
1	AO	0.57	2/4058 (0.0%)	0.66	0/5517
1	AP	0.51	2/4058 (0.0%)	0.63	1/5517 (0.0%)
1	AQ	0.50	1/4058 (0.0%)	0.61	0/5517
1	AR	0.52	2/4058 (0.0%)	0.63	1/5517 (0.0%)
1	AS	0.51	1/4058 (0.0%)	0.62	0/5517
1	AT	0.49	1/4058 (0.0%)	0.61	0/5517
1	BA	0.49	1/4058 (0.0%)	0.63	0/5517
1	BB	0.52	2/4058 (0.0%)	0.63	1/5517 (0.0%)
1	BC	0.49	1/4058 (0.0%)	0.62	0/5517
1	BD	0.48	2/4058 (0.0%)	0.62	0/5517
1	BE	0.50	2/4058 (0.0%)	0.63	0/5517
1	BF	0.51	2/4058 (0.0%)	0.62	0/5517
1	BG	0.50	2/4058 (0.0%)	0.62	1/5517 (0.0%)
1	BH	0.49	2/4058 (0.0%)	0.62	0/5517
1	BI	0.51	1/4058 (0.0%)	0.63	0/5517
1	BJ	0.50	1/4058 (0.0%)	0.62	0/5517
1	BK	0.49	2/4058 (0.0%)	0.61	0/5517
1	BL	0.52	3/4058 (0.1%)	0.62	0/5517
1	BM	0.53	3/4058 (0.1%)	0.64	1/5517 (0.0%)
1	BN	0.51	2/4058 (0.0%)	0.63	0/5517

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	BO	0.51	3/4058 (0.1%)	0.63	0/5517
1	BP	0.53	2/4058 (0.0%)	0.65	1/5517 (0.0%)
1	BQ	0.51	2/4058 (0.0%)	0.62	0/5517
1	BR	0.51	2/4058 (0.0%)	0.63	1/5517 (0.0%)
1	BS	0.50	0/4058	0.62	0/5517
1	BT	0.48	1/4058 (0.0%)	0.62	0/5517
1	CA	0.50	0/4058	0.62	0/5517
1	CB	0.51	2/4058 (0.0%)	0.62	1/5517 (0.0%)
1	CC	0.49	1/4058 (0.0%)	0.62	0/5517
1	CD	0.50	2/4058 (0.0%)	0.62	0/5517
1	CE	0.50	1/4058 (0.0%)	0.62	0/5517
1	CF	0.48	1/4058 (0.0%)	0.62	0/5517
1	CG	0.51	1/4058 (0.0%)	0.63	0/5517
1	CH	0.49	1/4058 (0.0%)	0.62	0/5517
1	CI	0.55	1/4058 (0.0%)	0.64	1/5517 (0.0%)
1	CJ	0.50	2/4058 (0.0%)	0.63	1/5517 (0.0%)
1	CK	0.48	0/4058	0.62	0/5517
1	CL	0.52	2/4058 (0.0%)	0.63	1/5517 (0.0%)
1	CM	0.51	1/4058 (0.0%)	0.62	0/5517
1	CN	0.51	1/4058 (0.0%)	0.63	0/5517
1	CO	0.51	2/4058 (0.0%)	0.63	0/5517
1	CP	0.52	2/4058 (0.0%)	0.62	0/5517
1	CQ	0.50	2/4058 (0.0%)	0.62	0/5517
1	CR	0.54	3/4058 (0.1%)	0.64	1/5517 (0.0%)
1	CS	0.52	2/4058 (0.0%)	0.63	0/5517
1	CT	0.50	1/4058 (0.0%)	0.62	1/5517 (0.0%)
All	All	0.51	95/243480 (0.0%)	0.63	23/331020 (0.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand.A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	AA	0	2
1	AB	0	2
1	AC	0	2
1	AD	0	1
1	AE	0	1
1	AF	0	2
1	AG	0	2
1	AH	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	AI	0	2
1	AJ	0	2
1	AK	0	1
1	AL	0	1
1	AM	0	2
1	AN	0	2
1	AO	0	2
1	AP	0	2
1	AQ	0	1
1	AR	0	2
1	AS	0	2
1	AT	0	2
1	BA	0	2
1	BB	0	2
1	BC	0	1
1	BD	0	2
1	BE	0	1
1	BF	0	2
1	BG	0	2
1	BH	0	1
1	BI	0	1
1	BJ	0	2
1	BK	0	2
1	BL	0	2
1	BM	0	1
1	BN	0	2
1	BO	0	2
1	BP	0	1
1	BQ	0	2
1	BR	0	2
1	BS	0	2
1	BT	0	2
1	CA	0	2
1	CB	0	2
1	CC	0	2
1	CD	0	2
1	CE	0	2
1	CF	0	2
1	CG	0	2
1	CH	0	2
1	CI	0	3
1	CJ	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	CK	0	2
1	CL	0	2
1	CM	0	2
1	CN	0	2
1	CO	0	1
1	CP	0	2
1	CQ	0	2
1	CR	0	1
1	CS	0	2
1	CT	0	2
All	All	0	108

All (95) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	BM	189	PHE	CE1-CZ	-6.81	1.24	1.37
1	AL	189	PHE	CE1-CZ	-6.43	1.25	1.37
1	CJ	189	PHE	CE1-CZ	-6.33	1.25	1.37
1	BL	189	PHE	CE1-CZ	-6.28	1.25	1.37
1	BR	189	PHE	CE1-CZ	-6.26	1.25	1.37
1	CP	189	PHE	CE1-CZ	-6.25	1.25	1.37
1	BN	189	PHE	CE1-CZ	-6.25	1.25	1.37
1	CS	189	PHE	CE1-CZ	-6.21	1.25	1.37
1	BH	189	PHE	CE1-CZ	-6.17	1.25	1.37
1	AG	189	PHE	CE1-CZ	-6.12	1.25	1.37
1	BQ	189	PHE	CE1-CZ	-6.11	1.25	1.37
1	BR	189	PHE	CE2-CZ	-6.09	1.25	1.37
1	BK	189	PHE	CE1-CZ	-6.03	1.25	1.37
1	AK	189	PHE	CE1-CZ	-6.02	1.25	1.37
1	AP	189	PHE	CE1-CZ	-6.01	1.25	1.37
1	AP	189	PHE	CE2-CZ	-5.99	1.25	1.37
1	BN	189	PHE	CE2-CZ	-5.98	1.25	1.37
1	BM	189	PHE	CE2-CZ	-5.97	1.26	1.37
1	AI	189	PHE	CE1-CZ	-5.94	1.26	1.37
1	CN	189	PHE	CE1-CZ	-5.94	1.26	1.37
1	CI	189	PHE	CE1-CZ	-5.92	1.26	1.37
1	AH	189	PHE	CE1-CZ	-5.89	1.26	1.37
1	AM	189	PHE	CE1-CZ	-5.85	1.26	1.37
1	CQ	189	PHE	CE1-CZ	-5.83	1.26	1.37
1	BO	189	PHE	CE1-CZ	-5.80	1.26	1.37
1	AE	189	PHE	CE1-CZ	-5.79	1.26	1.37
1	CB	189	PHE	CE1-CZ	-5.78	1.26	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AD	189	PHE	CE1-CZ	-5.77	1.26	1.37
1	AC	189	PHE	CE1-CZ	-5.76	1.26	1.37
1	BC	189	PHE	CE1-CZ	-5.74	1.26	1.37
1	AE	189	PHE	CE2-CZ	-5.71	1.26	1.37
1	CR	189	PHE	CE1-CZ	-5.71	1.26	1.37
1	BH	189	PHE	CE2-CZ	-5.70	1.26	1.37
1	AO	189	PHE	CE1-CZ	-5.68	1.26	1.37
1	BG	189	PHE	CE2-CZ	-5.67	1.26	1.37
1	BK	189	PHE	CE2-CZ	-5.66	1.26	1.37
1	CQ	189	PHE	CE2-CZ	-5.65	1.26	1.37
1	BF	189	PHE	CE1-CZ	-5.63	1.26	1.37
1	AM	189	PHE	CE2-CZ	-5.62	1.26	1.37
1	CM	189	PHE	CE1-CZ	-5.60	1.26	1.37
1	BG	189	PHE	CE1-CZ	-5.60	1.26	1.37
1	AO	189	PHE	CE2-CZ	-5.57	1.26	1.37
1	AI	189	PHE	CE2-CZ	-5.54	1.26	1.37
1	BI	189	PHE	CE1-CZ	-5.54	1.26	1.37
1	AJ	189	PHE	CE1-CZ	-5.52	1.26	1.37
1	CP	189	PHE	CE2-CZ	-5.50	1.26	1.37
1	BB	189	PHE	CE1-CZ	-5.49	1.26	1.37
1	BJ	189	PHE	CE1-CZ	-5.49	1.26	1.37
1	CT	189	PHE	CE1-CZ	-5.49	1.26	1.37
1	AB	189	PHE	CE1-CZ	-5.47	1.26	1.37
1	CH	189	PHE	CE1-CZ	-5.46	1.26	1.37
1	BE	189	PHE	CE1-CZ	-5.45	1.26	1.37
1	BL	9	TYR	CE1-CZ	5.44	1.45	1.38
1	AS	189	PHE	CE2-CZ	-5.43	1.27	1.37
1	BD	189	PHE	CE1-CZ	-5.42	1.27	1.37
1	CF	189	PHE	CE1-CZ	-5.42	1.27	1.37
1	BB	189	PHE	CE2-CZ	-5.42	1.27	1.37
1	AD	189	PHE	CE2-CZ	-5.41	1.27	1.37
1	CR	189	PHE	CE2-CZ	-5.37	1.27	1.37
1	CG	189	PHE	CE1-CZ	-5.37	1.27	1.37
1	BF	189	PHE	CE2-CZ	-5.36	1.27	1.37
1	AF	189	PHE	CE1-CZ	-5.36	1.27	1.37
1	CC	189	PHE	CE1-CZ	-5.34	1.27	1.37
1	AN	189	PHE	CE1-CZ	-5.33	1.27	1.37
1	AT	189	PHE	CE1-CZ	-5.33	1.27	1.37
1	BP	189	PHE	CE1-CZ	-5.33	1.27	1.37
1	BL	189	PHE	CE2-CZ	-5.32	1.27	1.37
1	CB	189	PHE	CE2-CZ	-5.28	1.27	1.37
1	CO	189	PHE	CE1-CZ	-5.28	1.27	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	BP	189	PHE	CE2-CZ	-5.28	1.27	1.37
1	AB	189	PHE	CE2-CZ	-5.28	1.27	1.37
1	BE	189	PHE	CE2-CZ	-5.27	1.27	1.37
1	BM	189	PHE	CG-CD1	-5.26	1.30	1.38
1	AL	189	PHE	CE2-CZ	-5.25	1.27	1.37
1	BD	189	PHE	CE2-CZ	-5.24	1.27	1.37
1	BO	383	GLU	CG-CD	5.21	1.59	1.51
1	BA	189	PHE	CE1-CZ	-5.18	1.27	1.37
1	AC	189	PHE	CE2-CZ	-5.18	1.27	1.37
1	AH	189	PHE	CE2-CZ	-5.18	1.27	1.37
1	BQ	189	PHE	CE2-CZ	-5.17	1.27	1.37
1	AR	383	GLU	CG-CD	5.13	1.59	1.51
1	BO	189	PHE	CE2-CZ	-5.10	1.27	1.37
1	CD	189	PHE	CE1-CZ	-5.09	1.27	1.37
1	CE	189	PHE	CE1-CZ	-5.09	1.27	1.37
1	CD	189	PHE	CE2-CZ	-5.09	1.27	1.37
1	BT	189	PHE	CE2-CZ	-5.08	1.27	1.37
1	CJ	189	PHE	CE2-CZ	-5.08	1.27	1.37
1	CO	189	PHE	CE2-CZ	-5.07	1.27	1.37
1	AQ	189	PHE	CE1-CZ	-5.07	1.27	1.37
1	CL	189	PHE	CE2-CZ	-5.06	1.27	1.37
1	AK	189	PHE	CE2-CZ	-5.05	1.27	1.37
1	CS	189	PHE	CE2-CZ	-5.04	1.27	1.37
1	CR	383	GLU	CG-CD	5.04	1.59	1.51
1	AR	9	TYR	CD1-CE1	5.03	1.46	1.39
1	CL	189	PHE	CE1-CZ	-5.01	1.27	1.37

All (23) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	284	ARG	NE-CZ-NH2	-5.70	117.45	120.30
1	AG	265	LEU	CA-CB-CG	-5.59	102.45	115.30
1	AB	258	THR	N-CA-C	-5.51	96.11	111.00
1	CJ	56	LEU	CA-CB-CG	5.46	127.86	115.30
1	AF	56	LEU	CA-CB-CG	5.33	127.57	115.30
1	CT	56	LEU	CA-CB-CG	5.30	127.50	115.30
1	AG	265	LEU	CB-CG-CD1	-5.28	102.03	111.00
1	CR	56	LEU	CA-CB-CG	5.24	127.36	115.30
1	BM	56	LEU	CA-CB-CG	5.24	127.35	115.30
1	AR	56	LEU	CA-CB-CG	5.24	127.34	115.30
1	BR	56	LEU	CA-CB-CG	5.23	127.33	115.30
1	BP	56	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	AE	56	LEU	CA-CB-CG	5.22	127.31	115.30
1	AM	56	LEU	CA-CB-CG	5.21	127.29	115.30
1	BB	56	LEU	CA-CB-CG	5.20	127.25	115.30
1	CI	56	LEU	CA-CB-CG	5.18	127.22	115.30
1	AB	56	LEU	CA-CB-CG	5.18	127.21	115.30
1	CL	56	LEU	CA-CB-CG	5.12	127.07	115.30
1	AP	56	LEU	CA-CB-CG	5.09	127.02	115.30
1	AA	56	LEU	CA-CB-CG	5.09	127.01	115.30
1	AN	56	LEU	CA-CB-CG	5.06	126.94	115.30
1	BG	56	LEU	CA-CB-CG	5.04	126.89	115.30
1	CB	56	LEU	CA-CB-CG	5.00	126.81	115.30

There are no chirality outliers.

All (108) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	AA	33	LYS	Peptide
1	AA	55	ARG	Peptide
1	AB	33	LYS	Peptide
1	AB	55	ARG	Peptide
1	AC	33	LYS	Peptide
1	AC	55	ARG	Peptide
1	AD	55	ARG	Peptide
1	AE	55	ARG	Peptide
1	AF	33	LYS	Peptide
1	AF	55	ARG	Peptide
1	AG	33	LYS	Peptide
1	AG	55	ARG	Peptide
1	AH	33	LYS	Peptide
1	AH	55	ARG	Peptide
1	AI	33	LYS	Peptide
1	AI	55	ARG	Peptide
1	AJ	33	LYS	Peptide
1	AJ	55	ARG	Peptide
1	AK	55	ARG	Peptide
1	AL	55	ARG	Peptide
1	AM	33	LYS	Peptide
1	AM	55	ARG	Peptide
1	AN	33	LYS	Peptide
1	AN	55	ARG	Peptide
1	AO	33	LYS	Peptide
1	AO	55	ARG	Peptide

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Mol	Chain	Res	Type	Group
1	AP	33	LYS	Peptide
1	AP	55	ARG	Peptide
1	AQ	55	ARG	Peptide
1	AR	33	LYS	Peptide
1	AR	55	ARG	Peptide
1	AS	33	LYS	Peptide
1	AS	55	ARG	Peptide
1	AT	33	LYS	Peptide
1	AT	55	ARG	Peptide
1	BA	33	LYS	Peptide
1	BA	55	ARG	Peptide
1	BB	33	LYS	Peptide
1	BB	55	ARG	Peptide
1	BC	55	ARG	Peptide
1	BD	33	LYS	Peptide
1	BD	55	ARG	Peptide
1	BE	55	ARG	Peptide
1	BF	33	LYS	Peptide
1	BF	55	ARG	Peptide
1	BG	33	LYS	Peptide
1	BG	55	ARG	Peptide
1	BH	55	ARG	Peptide
1	BI	55	ARG	Peptide
1	BJ	33	LYS	Peptide
1	BJ	55	ARG	Peptide
1	BK	33	LYS	Peptide
1	BK	55	ARG	Peptide
1	BL	33	LYS	Peptide
1	BL	55	ARG	Peptide
1	BM	55	ARG	Peptide
1	BN	33	LYS	Peptide
1	BN	55	ARG	Peptide
1	BO	33	LYS	Peptide
1	BO	55	ARG	Peptide
1	BP	55	ARG	Peptide
1	BQ	33	LYS	Peptide
1	BQ	55	ARG	Peptide
1	BR	33	LYS	Peptide
1	BR	55	ARG	Peptide
1	BS	33	LYS	Peptide
1	BS	55	ARG	Peptide
1	BT	33	LYS	Peptide

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Mol	Chain	Res	Type	Group
1	BT	55	ARG	Peptide
1	CA	33	LYS	Peptide
1	CA	55	ARG	Peptide
1	CB	33	LYS	Peptide
1	CB	55	ARG	Peptide
1	CC	33	LYS	Peptide
1	CC	55	ARG	Peptide
1	CD	33	LYS	Peptide
1	CD	55	ARG	Peptide
1	CE	33	LYS	Peptide
1	CE	55	ARG	Peptide
1	CF	33	LYS	Peptide
1	CF	55	ARG	Peptide
1	CG	33	LYS	Peptide
1	CG	55	ARG	Peptide
1	CH	33	LYS	Peptide
1	CH	55	ARG	Peptide
1	CI	33	LYS	Peptide
1	CI	372	PHE	Peptide
1	CI	55	ARG	Peptide
1	CJ	33	LYS	Peptide
1	CJ	55	ARG	Peptide
1	CK	33	LYS	Peptide
1	CK	55	ARG	Peptide
1	CL	33	LYS	Peptide
1	CL	55	ARG	Peptide
1	CM	33	LYS	Peptide
1	CM	55	ARG	Peptide
1	CN	33	LYS	Peptide
1	CN	55	ARG	Peptide
1	CO	55	ARG	Peptide
1	CP	33	LYS	Peptide
1	CP	55	ARG	Peptide
1	CQ	33	LYS	Peptide
1	CQ	55	ARG	Peptide
1	CR	55	ARG	Peptide
1	CS	33	LYS	Peptide
1	CS	55	ARG	Peptide
1	CT	33	LYS	Peptide
1	CT	55	ARG	Peptide

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	3951	0	3909	93	0
1	AB	3951	0	3909	116	0
1	AC	3951	0	3909	92	0
1	AD	3951	0	3909	89	0
1	AE	3951	0	3909	89	0
1	AF	3951	0	3909	99	0
1	AG	3951	0	3907	149	1
1	AH	3951	0	3909	108	0
1	AI	3951	0	3909	113	5
1	AJ	3951	0	3909	109	1
1	AK	3951	0	3909	106	0
1	AL	3951	0	3909	110	0
1	AM	3951	0	3909	94	5
1	AN	3951	0	3909	111	1
1	AO	3951	0	3909	129	0
1	AP	3951	0	3909	84	0
1	AQ	3951	0	3909	101	0
1	AR	3951	0	3909	96	0
1	AS	3951	0	3909	92	0
1	AT	3951	0	3909	96	0
1	BA	3951	0	3909	97	0
1	BB	3951	0	3909	87	0
1	BC	3951	0	3909	80	0
1	BD	3951	0	3909	86	2
1	BE	3951	0	3909	93	1
1	BF	3951	0	3909	101	0
1	BG	3951	0	3909	108	2
1	BH	3951	0	3909	90	0
1	BI	3951	0	3909	86	0
1	BJ	3951	0	3909	91	0
1	BK	3951	0	3909	72	0
1	BL	3951	0	3909	90	0
1	BM	3951	0	3909	90	0
1	BN	3951	0	3909	90	0
1	BO	3951	0	3909	100	0
1	BP	3951	0	3909	93	0
1	BQ	3951	0	3909	85	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	BR	3951	0	3909	97	0
1	BS	3951	0	3909	81	0
1	BT	3951	0	3909	91	0
1	CA	3951	0	3909	89	0
1	CB	3951	0	3909	96	3
1	CC	3951	0	3909	85	0
1	CD	3951	0	3909	94	0
1	CE	3951	0	3909	105	0
1	CF	3951	0	3909	103	0
1	CG	3951	0	3909	89	0
1	CH	3951	0	3909	95	0
1	CI	3951	0	3909	115	1
1	CJ	3951	0	3909	109	2
1	CK	3951	0	3909	86	0
1	CL	3951	0	3909	83	0
1	CM	3951	0	3909	89	0
1	CN	3951	0	3909	81	0
1	CO	3951	0	3909	95	0
1	CP	3951	0	3909	94	0
1	CQ	3951	0	3909	88	0
1	CR	3951	0	3909	122	0
1	CS	3951	0	3909	85	0
1	CT	3951	0	3909	77	0
All	All	237060	0	234538	5081	12

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 11.

All (5081) 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:AG:263:ASN:ND2	1:BG:32:PHE:CA	1.68	1.50
1:AG:272:TYR:CE2	1:BG:55:ARG:CZ	2.02	1.43
1:AG:272:TYR:HE2	1:BG:55:ARG:NE	1.23	1.37
1:AN:430:MET:CE	1:AO:296:ALA:HB2	1.62	1.29
1:AG:272:TYR:HE2	1:BG:55:ARG:CZ	1.36	1.25
1:CR:86:PRO:O	1:CR:88:TYR:N	1.74	1.19
1:CR:79:ARG:CG	1:CR:79:ARG:HH11	1.57	1.15
1:AN:430:MET:HE3	1:AO:296:ALA:HB2	1.21	1.12
1:AG:263:ASN:ND2	1:BG:32:PHE:HA	0.78	1.11
1:AG:265:LEU:O	1:AG:265:LEU:HD12	1.50	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:265:LEU:C	1:AB:265:LEU:HD12	1.62	1.10
1:AG:272:TYR:CE2	1:BG:55:ARG:NE	2.11	1.09
1:AG:272:TYR:HD2	1:BG:55:ARG:NH1	1.51	1.08
1:AB:250:TRP:HE1	1:AB:265:LEU:HD11	1.09	1.07
1:AG:272:TYR:CD2	1:BG:55:ARG:NH1	2.23	1.07
1:CF:79:ARG:HH11	1:CF:79:ARG:HG3	1.18	1.06
1:CR:79:ARG:HH11	1:CR:79:ARG:HG2	1.19	1.04
1:AL:272:TYR:CE2	1:CJ:55:ARG:NE	2.26	1.04
1:AG:272:TYR:CD2	1:BG:55:ARG:CZ	2.40	1.04
1:AO:295:LEU:HB2	1:AO:298:GLN:OE1	1.58	1.03
1:CC:250:TRP:CZ3	1:CC:272:TYR:HE1	1.77	1.01
1:AN:430:MET:CE	1:AO:296:ALA:CB	2.39	1.00
1:AB:265:LEU:C	1:AB:265:LEU:CD1	2.30	1.00
1:AI:272:TYR:CE2	1:AO:55:ARG:NE	2.30	0.99
1:AA:38:GLU:OE1	1:AB:267:LYS:NZ	1.96	0.99
1:CR:86:PRO:O	1:CR:87:VAL:C	1.97	0.99
1:AH:55:ARG:NE	1:AK:272:TYR:CE2	2.31	0.99
1:AO:290:THR:HG23	1:AO:290:THR:O	1.63	0.97
1:CI:376:THR:O	1:CI:377:CYS:HB3	1.62	0.96
1:AN:55:ARG:NE	1:AS:272:TYR:CE2	2.33	0.95
1:BO:250:TRP:CZ3	1:BO:272:TYR:HE1	1.83	0.95
1:AN:430:MET:HE3	1:AO:296:ALA:CB	1.97	0.95
1:AL:272:TYR:CE2	1:CJ:55:ARG:CD	2.49	0.95
1:CC:250:TRP:CZ3	1:CC:272:TYR:CE1	2.54	0.95
1:BS:79:ARG:HG3	1:BS:79:ARG:HH11	1.31	0.94
1:AB:250:TRP:NE1	1:AB:265:LEU:HD11	1.83	0.94
1:CJ:272:TYR:HE2	1:CQ:55:ARG:NE	1.67	0.93
1:AJ:191:LEU:HD23	1:AJ:191:LEU:H	1.34	0.93
1:BJ:250:TRP:CZ3	1:BJ:272:TYR:HE1	1.85	0.93
1:BI:55:ARG:NE	1:BR:272:TYR:CE2	2.36	0.93
1:CD:79:ARG:HG3	1:CD:79:ARG:HH11	1.34	0.93
1:CJ:272:TYR:CE2	1:CQ:55:ARG:NE	2.37	0.93
1:BP:272:TYR:CE2	1:CE:55:ARG:NE	2.35	0.93
1:AO:295:LEU:O	1:AO:298:GLN:HB2	1.69	0.92
1:BO:272:TYR:CE2	1:BR:55:ARG:NE	2.37	0.92
1:AN:55:ARG:NE	1:AS:272:TYR:HE2	1.66	0.92
1:AS:250:TRP:CZ3	1:AS:272:TYR:HE1	1.87	0.92
1:CO:272:TYR:CE2	1:CR:55:ARG:NE	2.38	0.92
1:BJ:191:LEU:H	1:BJ:191:LEU:HD23	1.34	0.92
1:BP:250:TRP:CZ3	1:BP:272:TYR:HE1	1.86	0.92
1:AL:272:TYR:HE2	1:CJ:55:ARG:CD	1.82	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BO:250:TRP:CZ3	1:BO:272:TYR:CE1	2.58	0.91
1:BJ:250:TRP:CZ3	1:BJ:272:TYR:CE1	2.58	0.91
1:AC:191:LEU:H	1:AC:191:LEU:HD23	1.36	0.90
1:AG:79:ARG:HH11	1:AG:79:ARG:HG3	1.36	0.90
1:BJ:79:ARG:HH11	1:BJ:79:ARG:HG3	1.35	0.90
1:CI:377:CYS:SG	1:CI:378:ARG:N	2.43	0.90
1:CI:377:CYS:SG	1:CI:378:ARG:O	2.30	0.90
1:AB:191:LEU:HD23	1:AB:191:LEU:H	1.37	0.90
1:BL:9:TYR:CE1	1:BL:147:GLN:NE2	2.40	0.90
1:BE:191:LEU:HD23	1:BE:191:LEU:H	1.36	0.90
1:BP:272:TYR:HE2	1:CE:55:ARG:CD	1.84	0.90
1:BP:272:TYR:HE2	1:CE:55:ARG:NE	1.70	0.90
1:CE:272:TYR:CE2	1:CM:55:ARG:NE	2.40	0.89
1:AR:191:LEU:HD23	1:AR:191:LEU:H	1.38	0.89
1:AS:250:TRP:CZ3	1:AS:272:TYR:CE1	2.59	0.89
1:AL:191:LEU:HD23	1:AL:191:LEU:H	1.37	0.89
1:AB:265:LEU:HD12	1:AB:265:LEU:O	1.73	0.89
1:CC:191:LEU:HD23	1:CC:191:LEU:H	1.38	0.89
1:BP:250:TRP:CZ3	1:BP:272:TYR:CE1	2.60	0.89
1:CP:191:LEU:HD23	1:CP:191:LEU:H	1.38	0.89
1:BP:191:LEU:HD23	1:BP:191:LEU:H	1.37	0.88
1:AP:191:LEU:HD23	1:AP:191:LEU:H	1.36	0.88
1:CI:191:LEU:H	1:CI:191:LEU:HD23	1.37	0.88
1:BJ:272:TYR:CE2	1:BQ:55:ARG:NE	2.41	0.88
1:BO:191:LEU:HD23	1:BO:191:LEU:H	1.38	0.88
1:AQ:191:LEU:HD23	1:AQ:191:LEU:H	1.39	0.88
1:AO:191:LEU:HD23	1:AO:191:LEU:H	1.37	0.88
1:AE:55:ARG:NE	1:CP:272:TYR:CE2	2.42	0.88
1:AG:191:LEU:HD23	1:AG:191:LEU:H	1.38	0.88
1:AO:292:ALA:O	1:AO:293:ARG:HG2	1.73	0.88
1:CQ:191:LEU:HD23	1:CQ:191:LEU:H	1.37	0.88
1:BB:191:LEU:HD23	1:BB:191:LEU:H	1.39	0.88
1:CF:191:LEU:HD23	1:CF:191:LEU:H	1.39	0.88
1:CI:378:ARG:HG3	1:CI:379:VAL:N	1.88	0.88
1:BD:191:LEU:HD23	1:BD:191:LEU:H	1.39	0.87
1:AD:191:LEU:HD23	1:AD:191:LEU:H	1.40	0.87
1:BM:191:LEU:H	1:BM:191:LEU:HD23	1.38	0.87
1:AK:191:LEU:HD23	1:AK:191:LEU:H	1.38	0.87
1:AE:191:LEU:HD23	1:AE:191:LEU:H	1.39	0.87
1:CD:191:LEU:HD23	1:CD:191:LEU:H	1.39	0.87
1:CO:250:TRP:CZ3	1:CO:272:TYR:CE1	2.63	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:191:LEU:HD23	1:BF:191:LEU:H	1.40	0.86
1:BJ:189:PHE:HE1	1:BJ:198:ARG:HG3	1.40	0.86
1:BQ:191:LEU:HD23	1:BQ:191:LEU:H	1.40	0.86
1:AN:79:ARG:HH11	1:AN:79:ARG:HG3	1.38	0.86
1:AA:191:LEU:HD23	1:AA:191:LEU:H	1.37	0.86
1:AM:191:LEU:HD23	1:AM:191:LEU:H	1.38	0.86
1:AO:250:TRP:CZ3	1:AO:272:TYR:CE1	2.63	0.86
1:CE:191:LEU:HD23	1:CE:191:LEU:H	1.39	0.86
1:AJ:272:TYR:CE2	1:AQ:55:ARG:NE	2.44	0.86
1:BT:191:LEU:HD23	1:BT:191:LEU:H	1.40	0.86
1:CG:191:LEU:HD23	1:CG:191:LEU:H	1.40	0.86
1:CJ:250:TRP:CZ3	1:CJ:272:TYR:HE1	1.94	0.86
1:CQ:250:TRP:CZ3	1:CQ:272:TYR:CE1	2.64	0.86
1:CR:191:LEU:HD23	1:CR:191:LEU:H	1.41	0.86
1:BH:191:LEU:HD23	1:BH:191:LEU:H	1.40	0.86
1:BO:272:TYR:HE2	1:BR:55:ARG:NE	1.73	0.86
1:CJ:250:TRP:CZ3	1:CJ:272:TYR:CE1	2.63	0.86
1:AH:55:ARG:CD	1:AK:272:TYR:CE2	2.59	0.86
1:AP:272:TYR:CE2	1:BE:55:ARG:CD	2.59	0.86
1:BG:191:LEU:HD23	1:BG:191:LEU:H	1.39	0.86
1:CM:191:LEU:HD23	1:CM:191:LEU:H	1.39	0.86
1:AF:79:ARG:HG3	1:AF:79:ARG:HH11	1.38	0.86
1:BK:191:LEU:HD23	1:BK:191:LEU:H	1.41	0.86
1:CK:191:LEU:HD23	1:CK:191:LEU:H	1.40	0.86
1:CO:272:TYR:HE2	1:CR:55:ARG:CD	1.89	0.86
1:AG:265:LEU:HD12	1:AG:265:LEU:C	1.80	0.86
1:CN:191:LEU:HD23	1:CN:191:LEU:H	1.40	0.86
1:BP:272:TYR:CE2	1:CE:55:ARG:CD	2.58	0.85
1:BS:191:LEU:HD23	1:BS:191:LEU:H	1.40	0.85
1:BT:55:ARG:NE	1:CA:272:TYR:CE2	2.44	0.85
1:AL:79:ARG:HG3	1:AL:79:ARG:HH11	1.39	0.85
1:AL:272:TYR:CD2	1:CJ:55:ARG:HD3	2.10	0.85
1:CL:191:LEU:H	1:CL:191:LEU:HD23	1.39	0.85
1:CH:191:LEU:HD23	1:CH:191:LEU:H	1.39	0.85
1:BH:15:GLN:HE21	1:BH:15:GLN:HA	1.38	0.85
1:BN:191:LEU:HD23	1:BN:191:LEU:H	1.41	0.85
1:CR:79:ARG:CG	1:CR:79:ARG:NH1	2.30	0.85
1:AT:250:TRP:CZ3	1:AT:272:TYR:CE1	2.65	0.85
1:CD:272:TYR:CE2	1:CS:55:ARG:NE	2.44	0.85
1:CG:189:PHE:HE1	1:CG:198:ARG:CG	1.90	0.85
1:CA:191:LEU:HD23	1:CA:191:LEU:H	1.41	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CM:250:TRP:CZ3	1:CM:272:TYR:CE1	2.64	0.85
1:CR:189:PHE:HE1	1:CR:198:ARG:CG	1.89	0.85
1:BC:191:LEU:HD23	1:BC:191:LEU:H	1.40	0.85
1:CB:191:LEU:HD23	1:CB:191:LEU:H	1.40	0.85
1:CO:250:TRP:CZ3	1:CO:272:TYR:HE1	1.95	0.85
1:AO:250:TRP:CZ3	1:AO:272:TYR:HE1	1.95	0.85
1:CB:189:PHE:HE1	1:CB:198:ARG:CG	1.90	0.84
1:CO:191:LEU:HD23	1:CO:191:LEU:H	1.42	0.84
1:CO:272:TYR:HE2	1:CR:55:ARG:NE	1.74	0.84
1:AO:272:TYR:HE2	1:AR:55:ARG:CD	1.88	0.84
1:BE:189:PHE:HE1	1:BE:198:ARG:CG	1.91	0.84
1:BI:191:LEU:HD23	1:BI:191:LEU:H	1.40	0.84
1:CS:454:ASN:HD22	1:CS:456:ALA:H	1.24	0.84
1:CP:250:TRP:CZ3	1:CP:272:TYR:CE1	2.65	0.84
1:CR:79:ARG:HH11	1:CR:79:ARG:HG3	1.42	0.84
1:CR:79:ARG:HG2	1:CR:79:ARG:NH1	1.86	0.84
1:AH:191:LEU:HD23	1:AH:191:LEU:H	1.43	0.84
1:CN:189:PHE:HE1	1:CN:198:ARG:HG3	1.41	0.84
1:AB:250:TRP:CZ3	1:AB:272:TYR:CE1	2.66	0.84
1:AG:263:ASN:ND2	1:BG:32:PHE:CB	2.41	0.84
1:BN:189:PHE:HE1	1:BN:198:ARG:CG	1.91	0.84
1:AS:191:LEU:HD23	1:AS:191:LEU:H	1.42	0.84
1:CS:191:LEU:HD23	1:CS:191:LEU:H	1.42	0.84
1:AF:191:LEU:HD23	1:AF:191:LEU:H	1.42	0.83
1:AI:191:LEU:HD23	1:AI:191:LEU:H	1.40	0.83
1:AE:189:PHE:HE1	1:AE:198:ARG:HG3	1.42	0.83
1:AI:272:TYR:CE2	1:AO:55:ARG:CD	2.62	0.83
1:AN:189:PHE:HE1	1:AN:198:ARG:CG	1.91	0.83
1:AN:191:LEU:H	1:AN:191:LEU:HD23	1.42	0.83
1:AP:272:TYR:CE2	1:BE:55:ARG:NE	2.46	0.83
1:AR:189:PHE:HE1	1:AR:198:ARG:HG3	1.42	0.83
1:CF:250:TRP:CZ3	1:CF:272:TYR:CE1	2.66	0.83
1:BB:189:PHE:HE1	1:BB:198:ARG:CG	1.92	0.83
1:AI:189:PHE:HE1	1:AI:198:ARG:CG	1.91	0.83
1:AT:191:LEU:HD23	1:AT:191:LEU:H	1.42	0.83
1:CJ:191:LEU:HD23	1:CJ:191:LEU:H	1.42	0.83
1:AF:454:ASN:HD22	1:AF:456:ALA:H	1.27	0.83
1:AN:189:PHE:HE1	1:AN:198:ARG:HG3	1.44	0.83
1:CJ:189:PHE:HE1	1:CJ:198:ARG:CG	1.92	0.83
1:BR:191:LEU:HD23	1:BR:191:LEU:H	1.42	0.83
1:CC:250:TRP:CE3	1:CC:272:TYR:CE1	2.66	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CD:250:TRP:CZ3	1:CD:272:TYR:CE1	2.65	0.83
1:CE:189:PHE:HE1	1:CE:198:ARG:HG3	1.44	0.83
1:BA:191:LEU:HD23	1:BA:191:LEU:H	1.42	0.83
1:BT:250:TRP:CZ3	1:BT:272:TYR:CE1	2.65	0.83
1:CJ:189:PHE:HE1	1:CJ:198:ARG:HG3	1.43	0.83
1:AF:38:GLU:OE1	1:AG:267:LYS:HE2	1.79	0.83
1:AJ:189:PHE:HE1	1:AJ:198:ARG:CG	1.92	0.83
1:BL:9:TYR:HE1	1:BL:147:GLN:HE21	1.25	0.83
1:AM:454:ASN:HD22	1:AM:456:ALA:H	1.26	0.83
1:AO:272:TYR:CE2	1:AR:55:ARG:NE	2.47	0.83
1:AR:250:TRP:CZ3	1:AR:272:TYR:CE1	2.67	0.83
1:BG:250:TRP:CZ3	1:BG:272:TYR:CE1	2.67	0.83
1:CR:85:ASP:OD1	1:CR:86:PRO:HD2	1.78	0.83
1:AI:189:PHE:HE1	1:AI:198:ARG:HG3	1.42	0.82
1:CG:250:TRP:CZ3	1:CG:272:TYR:CE1	2.67	0.82
1:AG:269:PRO:HG2	1:AG:269:PRO:O	1.78	0.82
1:AL:272:TYR:CE2	1:CJ:55:ARG:HD3	2.15	0.82
1:CM:189:PHE:HE1	1:CM:198:ARG:CG	1.91	0.82
1:CT:191:LEU:HD23	1:CT:191:LEU:H	1.41	0.82
1:AR:189:PHE:HE1	1:AR:198:ARG:CG	1.91	0.82
1:BP:79:ARG:CG	1:BP:79:ARG:HH11	1.90	0.82
1:CN:250:TRP:CZ3	1:CN:272:TYR:CE1	2.67	0.82
1:AP:272:TYR:CD2	1:BE:55:ARG:HD3	2.14	0.82
1:BB:250:TRP:CZ3	1:BB:272:TYR:CE1	2.68	0.82
1:BD:250:TRP:CZ3	1:BD:272:TYR:CE1	2.67	0.82
1:AO:291:PRO:O	1:AO:291:PRO:HD2	1.79	0.82
1:BA:250:TRP:CZ3	1:BA:272:TYR:CE1	2.67	0.82
1:BL:191:LEU:HD23	1:BL:191:LEU:H	1.43	0.82
1:AN:250:TRP:CZ3	1:AN:272:TYR:CE1	2.68	0.82
1:BB:55:ARG:NE	1:CB:272:TYR:CE2	2.48	0.82
1:BH:189:PHE:HE1	1:BH:198:ARG:CG	1.92	0.82
1:CF:189:PHE:HE1	1:CF:198:ARG:CG	1.92	0.82
1:CG:189:PHE:HE1	1:CG:198:ARG:HG3	1.44	0.82
1:BA:79:ARG:HH11	1:BA:79:ARG:HG3	1.43	0.82
1:BB:454:ASN:HD22	1:BB:456:ALA:H	1.26	0.82
1:BK:454:ASN:HD22	1:BK:456:ALA:H	1.27	0.82
1:BO:15:GLN:HA	1:BO:15:GLN:HE21	1.43	0.82
1:CR:250:TRP:CZ3	1:CR:272:TYR:CE1	2.68	0.82
1:AC:250:TRP:CZ3	1:AC:272:TYR:CE1	2.67	0.82
1:CF:454:ASN:HD22	1:CF:456:ALA:H	1.26	0.82
1:BR:79:ARG:HH11	1:BR:79:ARG:HG3	1.45	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CM:189:PHE:HE1	1:CM:198:ARG:HG3	1.45	0.81
1:CT:250:TRP:CZ3	1:CT:272:TYR:CE1	2.68	0.81
1:AB:189:PHE:HE1	1:AB:198:ARG:CG	1.93	0.81
1:AI:79:ARG:HG3	1:AI:79:ARG:HH11	1.43	0.81
1:CE:250:TRP:CZ3	1:CE:272:TYR:CE1	2.68	0.81
1:CF:79:ARG:HH11	1:CF:79:ARG:CG	1.91	0.81
1:AC:55:ARG:NE	1:AT:272:TYR:CE2	2.49	0.81
1:BK:250:TRP:CZ3	1:BK:272:TYR:CE1	2.68	0.81
1:BN:250:TRP:CZ3	1:BN:272:TYR:CE1	2.69	0.81
1:CH:79:ARG:HH11	1:CH:79:ARG:HG3	1.45	0.81
1:CK:250:TRP:CZ3	1:CK:272:TYR:CE1	2.68	0.81
1:CN:189:PHE:HE1	1:CN:198:ARG:CG	1.92	0.81
1:CQ:454:ASN:HD22	1:CQ:456:ALA:H	1.27	0.81
1:BI:250:TRP:CZ3	1:BI:272:TYR:CE1	2.69	0.81
1:BJ:272:TYR:HE2	1:BQ:55:ARG:NE	1.78	0.81
1:CI:376:THR:O	1:CI:376:THR:HG23	1.79	0.81
1:AH:55:ARG:HD3	1:AK:272:TYR:CD2	2.15	0.81
1:BG:189:PHE:HE1	1:BG:198:ARG:HG3	1.45	0.81
1:AH:189:PHE:HE1	1:AH:198:ARG:CG	1.93	0.81
1:AM:189:PHE:HE1	1:AM:198:ARG:CG	1.94	0.81
1:BH:250:TRP:CZ3	1:BH:272:TYR:CE1	2.69	0.81
1:BI:454:ASN:HD22	1:BI:456:ALA:H	1.26	0.81
1:BL:9:TYR:HE1	1:BL:147:GLN:NE2	1.79	0.81
1:CH:250:TRP:CZ3	1:CH:272:TYR:CE1	2.68	0.81
1:CM:454:ASN:HD22	1:CM:456:ALA:H	1.29	0.81
1:AE:250:TRP:CZ3	1:AE:272:TYR:CE1	2.69	0.81
1:AH:272:TYR:CE2	1:CF:55:ARG:NE	2.48	0.81
1:AM:189:PHE:HE1	1:AM:198:ARG:HG3	1.45	0.81
1:BI:189:PHE:HE1	1:BI:198:ARG:HG3	1.45	0.81
1:CE:272:TYR:HE2	1:CM:55:ARG:NE	1.78	0.81
1:BB:189:PHE:HE1	1:BB:198:ARG:HG3	1.45	0.80
1:CI:250:TRP:CZ3	1:CI:272:TYR:CE1	2.69	0.80
1:CS:250:TRP:CZ3	1:CS:272:TYR:CE1	2.69	0.80
1:AL:250:TRP:CZ3	1:AL:272:TYR:CE1	2.69	0.80
1:CD:454:ASN:HD22	1:CD:456:ALA:H	1.30	0.80
1:CH:189:PHE:HE1	1:CH:198:ARG:HG3	1.46	0.80
1:CI:189:PHE:HE1	1:CI:198:ARG:HG3	1.45	0.80
1:CR:85:ASP:OD1	1:CR:86:PRO:CD	2.30	0.80
1:BM:250:TRP:CZ3	1:BM:272:TYR:CE1	2.69	0.80
1:BP:454:ASN:HD22	1:BP:456:ALA:H	1.27	0.80
1:CF:189:PHE:HE1	1:CF:198:ARG:HG3	1.46	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CI:378:ARG:O	1:CI:379:VAL:HG23	1.81	0.80
1:BF:189:PHE:HE1	1:BF:198:ARG:CG	1.95	0.80
1:CR:454:ASN:HD22	1:CR:456:ALA:H	1.27	0.80
1:AF:189:PHE:HE1	1:AF:198:ARG:HG3	1.43	0.80
1:AH:250:TRP:CZ3	1:AH:272:TYR:CE1	2.68	0.80
1:AI:55:ARG:HD3	1:AR:272:TYR:CD2	2.17	0.80
1:AP:272:TYR:HE2	1:BE:55:ARG:CD	1.93	0.80
1:BG:272:TYR:CE2	1:CG:55:ARG:NE	2.49	0.80
1:CB:250:TRP:CZ3	1:CB:272:TYR:CE1	2.70	0.80
1:AF:250:TRP:CZ3	1:AF:272:TYR:CE1	2.70	0.80
1:AG:189:PHE:HE1	1:AG:198:ARG:CG	1.95	0.80
1:AI:272:TYR:CD2	1:AO:55:ARG:HD3	2.16	0.80
1:AK:250:TRP:CZ3	1:AK:272:TYR:CE1	2.69	0.80
1:AO:272:TYR:CE2	1:AR:55:ARG:CD	2.65	0.80
1:BL:250:TRP:CZ3	1:BL:272:TYR:CE1	2.70	0.80
1:CC:55:ARG:NE	1:CT:272:TYR:CE2	2.50	0.80
1:CL:454:ASN:HD22	1:CL:456:ALA:H	1.29	0.80
1:AG:189:PHE:HE1	1:AG:198:ARG:HG3	1.46	0.80
1:AR:454:ASN:HD22	1:AR:456:ALA:H	1.29	0.80
1:CB:189:PHE:HE1	1:CB:198:ARG:HG3	1.44	0.80
1:AB:265:LEU:CD1	1:AB:265:LEU:O	2.30	0.80
1:AH:55:ARG:CD	1:AK:272:TYR:HE2	1.95	0.80
1:AO:290:THR:OG1	1:AO:291:PRO:CD	2.30	0.80
1:AO:292:ALA:O	1:AO:293:ARG:CG	2.30	0.80
1:BM:189:PHE:HE1	1:BM:198:ARG:CG	1.94	0.80
1:AO:290:THR:OG1	1:AO:291:PRO:HD2	1.81	0.79
1:BO:250:TRP:CE3	1:BO:272:TYR:CE1	2.70	0.79
1:CI:376:THR:O	1:CI:377:CYS:CB	2.29	0.79
1:AG:265:LEU:O	1:AG:265:LEU:CD1	2.30	0.79
1:CH:189:PHE:HE1	1:CH:198:ARG:CG	1.95	0.79
1:AM:250:TRP:CZ3	1:AM:272:TYR:CE1	2.70	0.79
1:BH:189:PHE:HE1	1:BH:198:ARG:HG3	1.45	0.79
1:CR:86:PRO:O	1:CR:89:THR:N	2.14	0.79
1:AN:454:ASN:HD22	1:AN:456:ALA:H	1.31	0.79
1:CL:250:TRP:CZ3	1:CL:272:TYR:CE1	2.70	0.79
1:AC:454:ASN:HD22	1:AC:456:ALA:H	1.31	0.79
1:BE:189:PHE:HE1	1:BE:198:ARG:HG3	1.46	0.79
1:BF:250:TRP:CZ3	1:BF:272:TYR:CE1	2.70	0.79
1:BR:189:PHE:HE1	1:BR:198:ARG:HG3	1.46	0.79
1:CJ:272:TYR:HE2	1:CQ:55:ARG:CD	1.95	0.79
1:CN:454:ASN:HD22	1:CN:456:ALA:H	1.30	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CO:272:TYR:CE2	1:CR:55:ARG:CD	2.66	0.79
1:AB:259:THR:CG2	1:AB:259:THR:O	2.30	0.79
1:AJ:189:PHE:HE1	1:AJ:198:ARG:HG3	1.48	0.79
1:CR:189:PHE:HE1	1:CR:198:ARG:HG3	1.47	0.79
1:AQ:250:TRP:CZ3	1:AQ:272:TYR:CE1	2.71	0.79
1:BJ:189:PHE:HE1	1:BJ:198:ARG:CG	1.96	0.79
1:AH:189:PHE:HE1	1:AH:198:ARG:HG3	1.49	0.78
1:AG:272:TYR:O	1:AG:273:VAL:HG23	1.83	0.78
1:BQ:189:PHE:HE1	1:BQ:198:ARG:HG3	1.49	0.78
1:AN:55:ARG:CD	1:AS:272:TYR:HE2	1.96	0.78
1:BQ:250:TRP:CZ3	1:BQ:272:TYR:CE1	2.71	0.78
1:CD:250:TRP:CZ3	1:CD:272:TYR:HE1	2.02	0.78
1:CI:189:PHE:HE1	1:CI:198:ARG:CG	1.96	0.78
1:CK:454:ASN:HD22	1:CK:456:ALA:H	1.28	0.78
1:BA:189:PHE:HE1	1:BA:198:ARG:HG3	1.49	0.78
1:AD:250:TRP:CZ3	1:AD:272:TYR:CE1	2.72	0.78
1:AG:55:ARG:CD	1:CG:272:TYR:CE2	2.66	0.78
1:AK:55:ARG:NE	1:CF:272:TYR:CE2	2.52	0.78
1:BR:454:ASN:HD22	1:BR:456:ALA:H	1.31	0.78
1:CO:79:ARG:HG3	1:CO:79:ARG:HH11	1.49	0.78
1:BM:454:ASN:HD22	1:BM:456:ALA:H	1.31	0.78
1:CO:189:PHE:HE1	1:CO:198:ARG:HG3	1.49	0.78
1:AA:250:TRP:CZ3	1:AA:272:TYR:CE1	2.72	0.78
1:AG:272:TYR:O	1:AG:273:VAL:CG2	2.32	0.78
1:BO:272:TYR:HE2	1:BR:55:ARG:CD	1.97	0.78
1:CD:272:TYR:HE2	1:CS:55:ARG:CD	1.97	0.78
1:AD:454:ASN:HD22	1:AD:456:ALA:H	1.32	0.78
1:BH:454:ASN:HD22	1:BH:456:ALA:H	1.30	0.78
1:BL:454:ASN:HD22	1:BL:456:ALA:H	1.31	0.78
1:BR:250:TRP:CZ3	1:BR:272:TYR:CE1	2.71	0.78
1:BG:189:PHE:HE1	1:BG:198:ARG:CG	1.96	0.77
1:BO:272:TYR:CE2	1:BR:55:ARG:CD	2.67	0.77
1:AG:55:ARG:HD3	1:CG:272:TYR:CE2	2.19	0.77
1:BF:272:TYR:CE2	1:CK:55:ARG:NE	2.52	0.77
1:AD:272:TYR:CE2	1:AS:55:ARG:NE	2.52	0.77
1:BI:55:ARG:CD	1:BR:272:TYR:CE2	2.67	0.77
1:CE:272:TYR:HE2	1:CM:55:ARG:CD	1.97	0.77
1:AG:272:TYR:CE2	1:BG:55:ARG:NH2	2.52	0.77
1:BT:55:ARG:CD	1:CA:272:TYR:HE2	1.97	0.77
1:BA:454:ASN:HD22	1:BA:456:ALA:H	1.32	0.77
1:BP:250:TRP:CE3	1:BP:272:TYR:CE1	2.73	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BS:454:ASN:HD22	1:BS:456:ALA:H	1.30	0.77
1:CE:250:TRP:CZ3	1:CE:272:TYR:HE1	2.03	0.77
1:CP:250:TRP:CZ3	1:CP:272:TYR:HE1	2.01	0.77
1:AE:454:ASN:HD22	1:AE:456:ALA:H	1.31	0.77
1:AO:272:TYR:CE2	1:AR:55:ARG:HD3	2.19	0.77
1:AB:189:PHE:HE1	1:AB:198:ARG:HG3	1.49	0.77
1:BF:454:ASN:HD22	1:BF:456:ALA:H	1.31	0.77
1:BJ:250:TRP:CE3	1:BJ:272:TYR:CE1	2.73	0.77
1:CA:250:TRP:CZ3	1:CA:272:TYR:CE1	2.71	0.77
1:CJ:454:ASN:HD22	1:CJ:456:ALA:H	1.31	0.77
1:CJ:272:TYR:CE2	1:CQ:55:ARG:CZ	2.68	0.77
1:AG:272:TYR:C	1:AG:273:VAL:HG23	2.05	0.77
1:BP:22:THR:OG1	1:BP:131:HIS:HD2	1.68	0.77
1:BT:454:ASN:HD22	1:BT:456:ALA:H	1.31	0.77
1:CD:22:THR:OG1	1:CD:131:HIS:HD2	1.68	0.77
1:AA:454:ASN:HD22	1:AA:456:ALA:H	1.30	0.77
1:AP:250:TRP:CZ3	1:AP:272:TYR:CE1	2.73	0.77
1:AH:272:TYR:CE2	1:CF:55:ARG:CD	2.68	0.76
1:BE:250:TRP:CZ3	1:BE:272:TYR:CE1	2.73	0.76
1:BQ:284:ARG:HH11	1:BQ:284:ARG:CG	1.98	0.76
1:AE:189:PHE:HE1	1:AE:198:ARG:CG	1.98	0.76
1:BF:79:ARG:HH11	1:BF:79:ARG:HG3	1.48	0.76
1:BI:55:ARG:CD	1:BR:272:TYR:HE2	1.97	0.76
1:BT:55:ARG:CD	1:CA:272:TYR:CE2	2.68	0.76
1:AP:22:THR:OG1	1:AP:131:HIS:HD2	1.68	0.76
1:BS:250:TRP:CZ3	1:BS:272:TYR:CE1	2.73	0.76
1:CH:454:ASN:HD22	1:CH:456:ALA:H	1.32	0.76
1:AO:291:PRO:O	1:AO:291:PRO:CD	2.30	0.76
1:BP:189:PHE:HE1	1:BP:198:ARG:HG3	1.50	0.76
1:CC:79:ARG:HH11	1:CC:79:ARG:HG3	1.51	0.76
1:AO:454:ASN:HD22	1:AO:456:ALA:H	1.33	0.76
1:BN:454:ASN:HD22	1:BN:456:ALA:H	1.33	0.76
1:CE:189:PHE:HE1	1:CE:198:ARG:CG	1.98	0.76
1:BL:7:VAL:HG11	1:BL:9:TYR:CZ	2.21	0.76
1:AB:259:THR:O	1:AB:259:THR:HG23	1.85	0.76
1:AG:55:ARG:HD3	1:CG:272:TYR:CD2	2.21	0.76
1:AN:55:ARG:CD	1:AS:272:TYR:CE2	2.69	0.76
1:AO:289:ARG:NH1	1:AO:337:ASP:O	2.19	0.76
1:AP:272:TYR:CE2	1:BE:55:ARG:HD3	2.20	0.76
1:AE:22:THR:OG1	1:AE:131:HIS:HD2	1.69	0.75
1:AF:189:PHE:HE1	1:AF:198:ARG:CG	1.98	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:189:PHE:HE1	1:AK:198:ARG:HG3	1.51	0.75
1:BG:74:ASN:HB3	1:BG:126:GLU:HG2	1.68	0.75
1:BJ:454:ASN:HD22	1:BJ:456:ALA:H	1.32	0.75
1:CD:272:TYR:CE2	1:CS:55:ARG:CD	2.68	0.75
1:CE:22:THR:OG1	1:CE:131:HIS:HD2	1.68	0.75
1:AL:454:ASN:HD22	1:AL:456:ALA:H	1.30	0.75
1:BC:454:ASN:HD22	1:BC:456:ALA:H	1.31	0.75
1:BT:79:ARG:HH11	1:BT:79:ARG:HG3	1.51	0.75
1:CR:77:THR:O	1:CR:80:ILE:CG1	2.33	0.75
1:AI:272:TYR:HE2	1:AO:55:ARG:CD	1.99	0.75
1:BP:272:TYR:CD2	1:CE:55:ARG:HD3	2.22	0.75
1:CC:454:ASN:HD22	1:CC:456:ALA:H	1.34	0.75
1:BL:189:PHE:HE1	1:BL:198:ARG:HG3	1.51	0.75
1:AI:55:ARG:CD	1:AR:272:TYR:CE2	2.69	0.75
1:AJ:55:ARG:NE	1:BL:272:TYR:CE2	2.55	0.75
1:BC:22:THR:OG1	1:BC:131:HIS:HD2	1.69	0.75
1:AP:454:ASN:HD22	1:AP:456:ALA:H	1.32	0.75
1:BF:189:PHE:HE1	1:BF:198:ARG:HG3	1.51	0.75
1:BS:189:PHE:HE1	1:BS:198:ARG:HG3	1.52	0.75
1:CB:11:PRO:HG2	1:CB:18:ARG:CD	2.17	0.75
1:CI:74:ASN:HB3	1:CI:126:GLU:HG2	1.67	0.75
1:CI:272:TYR:CE2	1:CO:55:ARG:NE	2.55	0.75
1:AE:272:TYR:CE2	1:AM:55:ARG:NE	2.55	0.75
1:AJ:250:TRP:CZ3	1:AJ:272:TYR:CE1	2.75	0.75
1:BN:189:PHE:HE1	1:BN:198:ARG:HG3	1.51	0.75
1:AF:22:THR:OG1	1:AF:131:HIS:HD2	1.70	0.75
1:AM:284:ARG:HG2	1:AM:284:ARG:HH11	1.51	0.75
1:BQ:36:GLN:NE2	1:BQ:156:LEU:H	1.85	0.75
1:CD:55:ARG:NE	1:CN:272:TYR:CE2	2.55	0.75
1:BA:33:LYS:HG2	1:BA:33:LYS:O	1.87	0.74
1:BE:454:ASN:HD22	1:BE:456:ALA:H	1.35	0.74
1:BI:189:PHE:HE1	1:BI:198:ARG:CG	2.00	0.74
1:CB:11:PRO:HG2	1:CB:18:ARG:NE	2.02	0.74
1:CI:454:ASN:HD22	1:CI:456:ALA:H	1.35	0.74
1:AF:55:ARG:NE	1:BH:272:TYR:CE2	2.55	0.74
1:AP:33:LYS:HG2	1:AP:33:LYS:O	1.86	0.74
1:AR:22:THR:OG1	1:AR:131:HIS:HD2	1.70	0.74
1:AM:284:ARG:HH11	1:AM:284:ARG:CG	2.00	0.74
1:BB:33:LYS:O	1:BB:33:LYS:HG2	1.87	0.74
1:BL:33:LYS:HG2	1:BL:33:LYS:O	1.87	0.74
1:BP:272:TYR:CE2	1:CE:55:ARG:HD3	2.22	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CJ:22:THR:OG1	1:CJ:131:HIS:HD2	1.70	0.74
1:CL:189:PHE:HE1	1:CL:198:ARG:HG3	1.52	0.74
1:AB:201:GLY:HA3	1:AB:300:GLN:HG2	1.70	0.74
1:BA:22:THR:OG1	1:BA:131:HIS:HD2	1.70	0.74
1:CG:33:LYS:O	1:CG:33:LYS:HG2	1.88	0.74
1:AC:55:ARG:CD	1:AT:272:TYR:HE2	2.01	0.74
1:AE:55:ARG:CD	1:CP:272:TYR:CE2	2.70	0.74
1:AF:272:TYR:CE2	1:BK:55:ARG:NE	2.55	0.74
1:BQ:284:ARG:HH11	1:BQ:284:ARG:HG2	1.52	0.74
1:AE:55:ARG:CD	1:CP:272:TYR:HE2	2.00	0.74
1:AI:250:TRP:CZ3	1:AI:272:TYR:CE1	2.76	0.74
1:CG:79:ARG:HG3	1:CG:79:ARG:HH11	1.52	0.74
1:CL:33:LYS:O	1:CL:33:LYS:HG2	1.88	0.74
1:BK:33:LYS:O	1:BK:33:LYS:HG2	1.88	0.74
1:BK:189:PHE:HE1	1:BK:198:ARG:HG3	1.52	0.74
1:AG:55:ARG:CD	1:CG:272:TYR:HE2	2.00	0.74
1:BR:189:PHE:HE1	1:BR:198:ARG:CG	2.00	0.74
1:CT:454:ASN:HD22	1:CT:456:ALA:H	1.33	0.74
1:AJ:454:ASN:HD22	1:AJ:456:ALA:H	1.35	0.74
1:AT:454:ASN:HD22	1:AT:456:ALA:H	1.36	0.74
1:CB:454:ASN:HD22	1:CB:456:ALA:H	1.35	0.74
1:CT:33:LYS:HG2	1:CT:33:LYS:O	1.88	0.74
1:AH:272:TYR:HE2	1:CF:55:ARG:CD	1.99	0.74
1:AS:250:TRP:CE3	1:AS:272:TYR:CE1	2.75	0.74
1:AT:250:TRP:CZ3	1:AT:272:TYR:HE1	2.06	0.74
1:BP:79:ARG:HH11	1:BP:79:ARG:HG3	1.52	0.74
1:CG:22:THR:OG1	1:CG:131:HIS:HD2	1.71	0.74
1:AA:189:PHE:HE1	1:AA:198:ARG:HG3	1.53	0.73
1:AS:454:ASN:HD22	1:AS:456:ALA:H	1.35	0.73
1:AR:250:TRP:CZ3	1:AR:272:TYR:HE1	2.06	0.73
1:AT:33:LYS:O	1:AT:33:LYS:HG2	1.88	0.73
1:AT:189:PHE:HE1	1:AT:198:ARG:HG3	1.54	0.73
1:BA:14:CYS:H	1:BA:138:ASN:HD21	1.35	0.73
1:BE:33:LYS:O	1:BE:33:LYS:HG2	1.88	0.73
1:CC:55:ARG:CD	1:CT:272:TYR:CE2	2.72	0.73
1:AA:55:ARG:NE	1:CC:272:TYR:HE2	1.86	0.73
1:AE:272:TYR:CE2	1:AM:55:ARG:CD	2.72	0.73
1:AO:289:ARG:NH1	1:AO:337:ASP:C	2.42	0.73
1:BG:33:LYS:HG2	1:BG:33:LYS:O	1.88	0.73
1:BJ:189:PHE:CE1	1:BJ:198:ARG:HG3	2.24	0.73
1:AK:454:ASN:HD22	1:AK:456:ALA:H	1.34	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:430:MET:SD	1:AO:296:ALA:HB2	2.28	0.73
1:BA:74:ASN:HB3	1:BA:126:GLU:HG2	1.69	0.73
1:BC:250:TRP:CZ3	1:BC:272:TYR:CE1	2.76	0.73
1:CR:77:THR:O	1:CR:80:ILE:HG13	1.89	0.73
1:AF:272:TYR:CE2	1:BK:55:ARG:CD	2.72	0.73
1:AN:55:ARG:CZ	1:AS:272:TYR:CE2	2.71	0.73
1:AT:55:ARG:NE	1:BA:272:TYR:CE2	2.56	0.73
1:BD:33:LYS:HG2	1:BD:33:LYS:O	1.89	0.73
1:CA:454:ASN:HD22	1:CA:456:ALA:H	1.34	0.73
1:AI:55:ARG:HD3	1:AR:272:TYR:HD2	1.53	0.73
1:CO:454:ASN:HD22	1:CO:456:ALA:H	1.34	0.73
1:AC:55:ARG:CD	1:AT:272:TYR:CE2	2.71	0.73
1:AF:33:LYS:O	1:AF:33:LYS:HG2	1.88	0.73
1:AI:272:TYR:CD2	1:AO:55:ARG:CZ	2.72	0.73
1:AJ:55:ARG:CD	1:BL:272:TYR:CE2	2.72	0.73
1:AO:206:GLN:HE22	1:AO:294:LEU:HB2	1.53	0.73
1:BD:55:ARG:CD	1:BN:272:TYR:CE2	2.72	0.73
1:BD:272:TYR:CE2	1:BS:55:ARG:NE	2.57	0.73
1:BS:74:ASN:HB3	1:BS:126:GLU:HG2	1.71	0.73
1:CP:79:ARG:HH11	1:CP:79:ARG:HG3	1.54	0.73
1:CQ:250:TRP:CZ3	1:CQ:272:TYR:HE1	2.05	0.73
1:AB:250:TRP:CZ3	1:AB:272:TYR:HE1	2.06	0.73
1:AG:189:PHE:HE2	1:AG:249:LEU:HD21	1.54	0.73
1:BL:74:ASN:HB3	1:BL:126:GLU:HG2	1.71	0.73
1:BO:33:LYS:HG2	1:BO:33:LYS:O	1.87	0.73
1:CC:33:LYS:HG2	1:CC:33:LYS:O	1.88	0.73
1:CN:189:PHE:CE1	1:CN:198:ARG:HG3	2.23	0.73
1:AM:22:THR:OG1	1:AM:131:HIS:HD2	1.72	0.72
1:BB:284:ARG:CG	1:BB:284:ARG:HH11	2.02	0.72
1:BD:250:TRP:CZ3	1:BD:272:TYR:HE1	2.06	0.72
1:BJ:191:LEU:H	1:BJ:191:LEU:CD2	2.02	0.72
1:CE:454:ASN:HD22	1:CE:456:ALA:H	1.37	0.72
1:CG:454:ASN:HD22	1:CG:456:ALA:H	1.34	0.72
1:CL:284:ARG:CG	1:CL:284:ARG:HH11	2.01	0.72
1:AD:55:ARG:NE	1:AN:272:TYR:CE2	2.56	0.72
1:AD:79:ARG:HH11	1:AD:79:ARG:HG3	1.54	0.72
1:AD:189:PHE:HE1	1:AD:198:ARG:HG3	1.54	0.72
1:CD:284:ARG:HG2	1:CD:284:ARG:HH11	1.55	0.72
1:CI:55:ARG:CD	1:CR:272:TYR:CE2	2.72	0.72
1:CJ:272:TYR:CE2	1:CQ:55:ARG:CD	2.72	0.72
1:CM:250:TRP:CZ3	1:CM:272:TYR:HE1	2.06	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:55:ARG:CD	1:CF:272:TYR:CE2	2.71	0.72
1:CH:36:GLN:NE2	1:CH:156:LEU:H	1.88	0.72
1:CL:74:ASN:HB3	1:CL:126:GLU:HG2	1.71	0.72
1:CI:189:PHE:HE2	1:CI:249:LEU:HD21	1.53	0.72
1:AI:55:ARG:NE	1:AR:272:TYR:CE2	2.57	0.72
1:BE:16:ALA:O	1:BE:17:ASN:HB2	1.89	0.72
1:CP:33:LYS:O	1:CP:33:LYS:HG2	1.89	0.72
1:AL:74:ASN:HB3	1:AL:126:GLU:HG2	1.70	0.72
1:AN:22:THR:OG1	1:AN:131:HIS:HD2	1.72	0.72
1:BO:454:ASN:HD22	1:BO:456:ALA:H	1.37	0.72
1:AF:74:ASN:HB3	1:AF:126:GLU:HG2	1.72	0.72
1:BM:284:ARG:CG	1:BM:284:ARG:HH11	2.02	0.72
1:BN:55:ARG:NE	1:BS:272:TYR:CE2	2.57	0.72
1:CI:378:ARG:CG	1:CI:379:VAL:N	2.52	0.72
1:AG:454:ASN:HD22	1:AG:456:ALA:H	1.36	0.72
1:AJ:33:LYS:O	1:AJ:33:LYS:HG2	1.90	0.72
1:BB:191:LEU:H	1:BB:191:LEU:CD2	2.03	0.72
1:BQ:33:LYS:O	1:BQ:33:LYS:HG2	1.89	0.72
1:CI:22:THR:OG1	1:CI:131:HIS:HD2	1.72	0.72
1:AH:454:ASN:HD22	1:AH:456:ALA:H	1.35	0.72
1:AQ:22:THR:OG1	1:AQ:131:HIS:HD2	1.72	0.72
1:BI:33:LYS:O	1:BI:33:LYS:HG2	1.90	0.72
1:BR:33:LYS:HG2	1:BR:33:LYS:O	1.90	0.72
1:CM:22:THR:OG1	1:CM:131:HIS:HD2	1.73	0.72
1:AE:189:PHE:HE2	1:AE:249:LEU:HD21	1.55	0.72
1:AS:22:THR:OG1	1:AS:131:HIS:HD2	1.73	0.72
1:AS:33:LYS:HG2	1:AS:33:LYS:O	1.90	0.72
1:BH:33:LYS:O	1:BH:33:LYS:HG2	1.90	0.72
1:CC:284:ARG:HG2	1:CC:284:ARG:HH11	1.55	0.72
1:AA:55:ARG:NE	1:CC:272:TYR:CE2	2.58	0.71
1:AC:284:ARG:CG	1:AC:284:ARG:HH11	2.02	0.71
1:AK:55:ARG:HD3	1:CF:272:TYR:CD2	2.25	0.71
1:BC:189:PHE:HE1	1:BC:198:ARG:HG3	1.55	0.71
1:BQ:454:ASN:HD22	1:BQ:456:ALA:H	1.36	0.71
1:AB:454:ASN:HD22	1:AB:456:ALA:H	1.38	0.71
1:AQ:33:LYS:O	1:AQ:33:LYS:HG2	1.89	0.71
1:AG:250:TRP:CZ3	1:AG:272:TYR:HE1	2.08	0.71
1:BM:79:ARG:HH11	1:BM:79:ARG:HG3	1.55	0.71
1:BO:74:ASN:HB3	1:BO:126:GLU:HG2	1.73	0.71
1:BO:284:ARG:HH11	1:BO:284:ARG:CG	2.02	0.71
1:BR:74:ASN:HB3	1:BR:126:GLU:HG2	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CC:55:ARG:CD	1:CT:272:TYR:HE2	2.02	0.71
1:CK:36:GLN:NE2	1:CK:156:LEU:H	1.88	0.71
1:CT:189:PHE:HE1	1:CT:198:ARG:HG3	1.55	0.71
1:AB:284:ARG:HG2	1:AB:284:ARG:HH11	1.55	0.71
1:AL:22:THR:OG1	1:AL:131:HIS:HD2	1.72	0.71
1:AR:33:LYS:O	1:AR:33:LYS:HG2	1.88	0.71
1:BH:22:THR:OG1	1:BH:131:HIS:HD2	1.73	0.71
1:CB:22:THR:OG1	1:CB:131:HIS:HD2	1.73	0.71
1:CG:79:ARG:HH11	1:CG:79:ARG:CG	2.03	0.71
1:AG:273:VAL:O	1:AG:273:VAL:HG12	1.91	0.71
1:AQ:74:ASN:HB3	1:AQ:126:GLU:HG2	1.72	0.71
1:AR:189:PHE:HE2	1:AR:249:LEU:HD21	1.53	0.71
1:AR:189:PHE:CE1	1:AR:198:ARG:HG3	2.25	0.71
1:BT:33:LYS:O	1:BT:33:LYS:HG2	1.90	0.71
1:CT:284:ARG:HH11	1:CT:284:ARG:CG	2.04	0.71
1:AC:250:TRP:CZ3	1:AC:272:TYR:HE1	2.08	0.71
1:AK:14:CYS:H	1:AK:138:ASN:HD21	1.39	0.71
1:BC:36:GLN:NE2	1:BC:156:LEU:H	1.89	0.71
1:BD:22:THR:OG1	1:BD:131:HIS:HD2	1.73	0.71
1:BN:22:THR:OG1	1:BN:131:HIS:HD2	1.74	0.71
1:CN:74:ASN:HB3	1:CN:126:GLU:HG2	1.73	0.71
1:CN:250:TRP:CZ3	1:CN:272:TYR:HE1	2.08	0.71
1:CO:33:LYS:O	1:CO:33:LYS:HG2	1.90	0.71
1:AB:74:ASN:HB3	1:AB:126:GLU:HG2	1.72	0.71
1:AB:79:ARG:HH11	1:AB:79:ARG:HG3	1.56	0.71
1:AF:272:TYR:CD2	1:BK:55:ARG:HD3	2.25	0.71
1:AJ:272:TYR:CE2	1:AQ:55:ARG:CD	2.73	0.71
1:BG:454:ASN:HD22	1:BG:456:ALA:H	1.39	0.71
1:BP:33:LYS:O	1:BP:33:LYS:HG2	1.90	0.71
1:CA:33:LYS:O	1:CA:33:LYS:HG2	1.90	0.71
1:CC:284:ARG:HH11	1:CC:284:ARG:CG	2.04	0.71
1:CD:55:ARG:CD	1:CN:272:TYR:CE2	2.74	0.71
1:CE:33:LYS:O	1:CE:33:LYS:HG2	1.89	0.71
1:CO:272:TYR:CE2	1:CR:55:ARG:HD3	2.26	0.71
1:CS:74:ASN:HB3	1:CS:126:GLU:HG2	1.72	0.71
1:AO:295:LEU:CB	1:AO:298:GLN:OE1	2.35	0.71
1:CD:284:ARG:HH11	1:CD:284:ARG:CG	2.04	0.71
1:CN:36:GLN:NE2	1:CN:156:LEU:H	1.88	0.71
1:CT:14:CYS:H	1:CT:138:ASN:HD21	1.38	0.71
1:CT:16:ALA:O	1:CT:17:ASN:HB2	1.91	0.71
1:AM:33:LYS:HG2	1:AM:33:LYS:O	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BD:191:LEU:H	1:BD:191:LEU:CD2	2.04	0.71
1:BS:22:THR:OG1	1:BS:131:HIS:HD2	1.74	0.71
1:CE:272:TYR:CE2	1:CM:55:ARG:CZ	2.73	0.71
1:CJ:14:CYS:H	1:CJ:138:ASN:HD21	1.38	0.71
1:CR:33:LYS:O	1:CR:33:LYS:HG2	1.90	0.71
1:CS:189:PHE:HE1	1:CS:198:ARG:HG3	1.56	0.71
1:AN:55:ARG:CZ	1:AS:272:TYR:CD2	2.74	0.71
1:BA:284:ARG:HH11	1:BA:284:ARG:CG	2.03	0.71
1:BC:33:LYS:O	1:BC:33:LYS:HG2	1.91	0.71
1:BF:22:THR:OG1	1:BF:131:HIS:HD2	1.74	0.71
1:BM:189:PHE:HE2	1:BM:249:LEU:HD21	1.54	0.71
1:CJ:33:LYS:O	1:CJ:33:LYS:HG2	1.91	0.71
1:CP:22:THR:OG1	1:CP:131:HIS:HD2	1.74	0.71
1:CQ:191:LEU:H	1:CQ:191:LEU:CD2	2.04	0.71
1:AB:191:LEU:H	1:AB:191:LEU:CD2	2.04	0.70
1:AC:33:LYS:O	1:AC:33:LYS:HG2	1.90	0.70
1:AE:272:TYR:HE2	1:AM:55:ARG:CD	2.03	0.70
1:AI:189:PHE:CE1	1:AI:198:ARG:HG3	2.25	0.70
1:AS:284:ARG:HH11	1:AS:284:ARG:CG	2.04	0.70
1:CL:284:ARG:HH11	1:CL:284:ARG:HG2	1.56	0.70
1:CS:33:LYS:O	1:CS:33:LYS:HG2	1.91	0.70
1:AN:33:LYS:HG2	1:AN:33:LYS:O	1.90	0.70
1:BI:22:THR:OG1	1:BI:131:HIS:HD2	1.73	0.70
1:BM:189:PHE:HE1	1:BM:198:ARG:HG3	1.55	0.70
1:BS:33:LYS:O	1:BS:33:LYS:HG2	1.92	0.70
1:CJ:189:PHE:CE1	1:CJ:198:ARG:HG3	2.25	0.70
1:CP:189:PHE:HE1	1:CP:198:ARG:HG3	1.56	0.70
1:AN:74:ASN:HB3	1:AN:126:GLU:HG2	1.72	0.70
1:AN:430:MET:HE1	1:AO:296:ALA:CB	2.19	0.70
1:BQ:272:TYR:CE2	1:CL:55:ARG:NE	2.59	0.70
1:CL:22:THR:OG1	1:CL:131:HIS:HD2	1.73	0.70
1:AG:284:ARG:HH11	1:AG:284:ARG:CG	2.04	0.70
1:BD:55:ARG:HD3	1:BN:272:TYR:CD2	2.26	0.70
1:CF:74:ASN:HB3	1:CF:126:GLU:HG2	1.73	0.70
1:CH:33:LYS:O	1:CH:33:LYS:HG2	1.91	0.70
1:AA:33:LYS:O	1:AA:33:LYS:HG2	1.92	0.70
1:AO:79:ARG:HH11	1:AO:79:ARG:HG3	1.56	0.70
1:AQ:454:ASN:HD22	1:AQ:456:ALA:H	1.36	0.70
1:BF:272:TYR:CE2	1:CK:55:ARG:CD	2.75	0.70
1:CB:33:LYS:O	1:CB:33:LYS:HG2	1.91	0.70
1:CK:33:LYS:HG2	1:CK:33:LYS:O	1.90	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:74:ASN:HB3	1:AJ:126:GLU:HG2	1.73	0.70
1:BL:22:THR:OG1	1:BL:131:HIS:HD2	1.73	0.70
1:BO:284:ARG:HH11	1:BO:284:ARG:HG2	1.54	0.70
1:BT:189:PHE:HE1	1:BT:198:ARG:HG3	1.56	0.70
1:CT:284:ARG:HH11	1:CT:284:ARG:HG2	1.56	0.70
1:AI:33:LYS:O	1:AI:33:LYS:HG2	1.92	0.70
1:AN:189:PHE:HE2	1:AN:249:LEU:HD21	1.56	0.70
1:BE:272:TYR:CE2	1:BM:55:ARG:NE	2.59	0.70
1:BK:36:GLN:NE2	1:BK:156:LEU:H	1.89	0.70
1:CF:22:THR:OG1	1:CF:131:HIS:HD2	1.73	0.70
1:CG:189:PHE:CE1	1:CG:198:ARG:HG3	2.27	0.70
1:AA:272:TYR:CE2	1:CT:55:ARG:NE	2.60	0.70
1:AB:33:LYS:HG2	1:AB:33:LYS:O	1.90	0.70
1:AF:189:PHE:HE2	1:AF:249:LEU:HD21	1.56	0.70
1:AG:284:ARG:HH11	1:AG:284:ARG:HG2	1.56	0.70
1:AJ:272:TYR:HE2	1:AQ:55:ARG:CD	2.05	0.70
1:AO:191:LEU:H	1:AO:191:LEU:CD2	2.05	0.70
1:AS:189:PHE:HE1	1:AS:198:ARG:HG3	1.57	0.70
1:BF:284:ARG:HH11	1:BF:284:ARG:CG	2.04	0.70
1:BJ:272:TYR:CE2	1:BQ:55:ARG:CD	2.74	0.70
1:BP:191:LEU:H	1:BP:191:LEU:CD2	2.05	0.70
1:BP:284:ARG:HG2	1:BP:284:ARG:HH11	1.56	0.70
1:BT:22:THR:OG1	1:BT:131:HIS:HD2	1.74	0.70
1:CB:79:ARG:HH11	1:CB:79:ARG:HG3	1.56	0.70
1:CD:55:ARG:HD3	1:CN:272:TYR:CD2	2.27	0.70
1:AH:15:GLN:HA	1:AH:15:GLN:HE21	1.57	0.70
1:AL:284:ARG:HH11	1:AL:284:ARG:CG	2.05	0.70
1:BA:250:TRP:CZ3	1:BA:272:TYR:HE1	2.10	0.70
1:BB:189:PHE:HE2	1:BB:249:LEU:HD21	1.56	0.70
1:BF:284:ARG:HH11	1:BF:284:ARG:HG2	1.57	0.70
1:BO:191:LEU:H	1:BO:191:LEU:CD2	2.05	0.70
1:CA:284:ARG:HG2	1:CA:284:ARG:HH11	1.57	0.70
1:CI:38:GLU:HB2	1:CQ:35:VAL:HG22	1.74	0.70
1:CN:284:ARG:HG2	1:CN:284:ARG:HH11	1.56	0.70
1:CO:189:PHE:CE1	1:CO:198:ARG:HG3	2.26	0.70
1:CP:74:ASN:HB3	1:CP:126:GLU:HG2	1.74	0.70
1:AD:55:ARG:CD	1:AN:272:TYR:CE2	2.75	0.70
1:AG:261:ASP:C	1:AG:261:ASP:OD1	2.30	0.70
1:AK:74:ASN:HB3	1:AK:126:GLU:HG2	1.72	0.70
1:AM:272:TYR:CE2	1:CP:55:ARG:NE	2.60	0.70
1:BH:284:ARG:CG	1:BH:284:ARG:HH11	2.04	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BJ:22:THR:OG1	1:BJ:131:HIS:HD2	1.75	0.70
1:BK:74:ASN:HB3	1:BK:126:GLU:HG2	1.74	0.70
1:BT:250:TRP:CZ3	1:BT:272:TYR:HE1	2.08	0.70
1:CJ:250:TRP:CE3	1:CJ:272:TYR:CE1	2.80	0.70
1:CN:33:LYS:HG2	1:CN:33:LYS:O	1.91	0.70
1:CT:74:ASN:HB3	1:CT:126:GLU:HG2	1.73	0.70
1:AH:33:LYS:HG2	1:AH:33:LYS:O	1.92	0.69
1:BD:284:ARG:HH11	1:BD:284:ARG:CG	2.05	0.69
1:BN:74:ASN:HB3	1:BN:126:GLU:HG2	1.74	0.69
1:CD:272:TYR:CD2	1:CS:55:ARG:HD3	2.26	0.69
1:AA:22:THR:OG1	1:AA:131:HIS:HD2	1.74	0.69
1:AG:33:LYS:O	1:AG:33:LYS:HG2	1.91	0.69
1:AI:284:ARG:CG	1:AI:284:ARG:HH11	2.05	0.69
1:BO:22:THR:OG1	1:BO:131:HIS:HD2	1.75	0.69
1:CG:189:PHE:HE2	1:CG:249:LEU:HD21	1.57	0.69
1:AE:74:ASN:HB3	1:AE:126:GLU:HG2	1.74	0.69
1:AH:284:ARG:HH11	1:AH:284:ARG:CG	2.05	0.69
1:AJ:79:ARG:HH11	1:AJ:79:ARG:HG3	1.56	0.69
1:AO:284:ARG:HH11	1:AO:284:ARG:CG	2.05	0.69
1:BI:284:ARG:HH11	1:BI:284:ARG:CG	2.05	0.69
1:BJ:36:GLN:NE2	1:BJ:156:LEU:H	1.89	0.69
1:CE:16:ALA:O	1:CE:17:ASN:HB2	1.92	0.69
1:AB:284:ARG:HH11	1:AB:284:ARG:CG	2.05	0.69
1:AD:74:ASN:HB3	1:AD:126:GLU:HG2	1.73	0.69
1:AF:284:ARG:CG	1:AF:284:ARG:HH11	2.05	0.69
1:AH:55:ARG:HD3	1:AK:272:TYR:HD2	1.58	0.69
1:AN:189:PHE:CE1	1:AN:198:ARG:HG3	2.26	0.69
1:CB:74:ASN:HB3	1:CB:126:GLU:HG2	1.74	0.69
1:CI:33:LYS:HG2	1:CI:33:LYS:O	1.90	0.69
1:CI:55:ARG:HD3	1:CR:272:TYR:CD2	2.26	0.69
1:CI:284:ARG:HG2	1:CI:284:ARG:HH11	1.57	0.69
1:AD:284:ARG:HH11	1:AD:284:ARG:CG	2.05	0.69
1:AL:191:LEU:H	1:AL:191:LEU:CD2	2.06	0.69
1:AR:191:LEU:H	1:AR:191:LEU:CD2	2.06	0.69
1:BI:191:LEU:H	1:BI:191:LEU:CD2	2.06	0.69
1:CA:36:GLN:NE2	1:CA:156:LEU:H	1.89	0.69
1:CN:189:PHE:HE2	1:CN:249:LEU:HD21	1.58	0.69
1:AG:262:TRP:O	1:AG:263:ASN:C	2.29	0.69
1:AH:250:TRP:CZ3	1:AH:272:TYR:HE1	2.11	0.69
1:AK:33:LYS:HG2	1:AK:33:LYS:O	1.93	0.69
1:AO:250:TRP:CE3	1:AO:272:TYR:CE1	2.81	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BL:79:ARG:HH11	1:BL:79:ARG:HG3	1.57	0.69
1:BP:55:ARG:NE	1:CM:272:TYR:CE2	2.61	0.69
1:CJ:74:ASN:HB3	1:CJ:126:GLU:HG2	1.74	0.69
1:CQ:74:ASN:HB3	1:CQ:126:GLU:HG2	1.74	0.69
1:AD:55:ARG:CD	1:AN:272:TYR:HE2	2.06	0.69
1:AO:74:ASN:HB3	1:AO:126:GLU:HG2	1.75	0.69
1:AT:22:THR:OG1	1:AT:131:HIS:HD2	1.76	0.69
1:BJ:74:ASN:HB3	1:BJ:126:GLU:HG2	1.73	0.69
1:CC:22:THR:OG1	1:CC:131:HIS:HD2	1.75	0.69
1:CE:272:TYR:CE2	1:CM:55:ARG:CD	2.74	0.69
1:CE:284:ARG:HH11	1:CE:284:ARG:CG	2.06	0.69
1:CG:250:TRP:CZ3	1:CG:272:TYR:HE1	2.10	0.69
1:AA:191:LEU:H	1:AA:191:LEU:CD2	2.05	0.69
1:AB:261:ASP:C	1:AB:261:ASP:OD1	2.28	0.69
1:AJ:191:LEU:H	1:AJ:191:LEU:CD2	2.04	0.69
1:AK:442:GLN:HE21	1:AL:412:PHE:HB2	1.58	0.69
1:AO:206:GLN:NE2	1:AO:294:LEU:HB2	2.07	0.69
1:AO:284:ARG:HH11	1:AO:284:ARG:HG2	1.57	0.69
1:AT:79:ARG:HG3	1:AT:79:ARG:HH11	1.58	0.69
1:BB:284:ARG:HH11	1:BB:284:ARG:HG2	1.57	0.69
1:BH:189:PHE:HE2	1:BH:249:LEU:HD21	1.56	0.69
1:BM:16:ALA:O	1:BM:17:ASN:HB2	1.92	0.69
1:CB:191:LEU:H	1:CB:191:LEU:CD2	2.06	0.69
1:CI:55:ARG:HD3	1:CR:272:TYR:CE2	2.27	0.69
1:CI:191:LEU:H	1:CI:191:LEU:CD2	2.05	0.69
1:CM:191:LEU:H	1:CM:191:LEU:CD2	2.06	0.69
1:CM:284:ARG:HH11	1:CM:284:ARG:CG	2.06	0.69
1:CN:191:LEU:H	1:CN:191:LEU:CD2	2.06	0.69
1:CQ:22:THR:OG1	1:CQ:131:HIS:HD2	1.76	0.69
1:AA:284:ARG:HG2	1:AA:284:ARG:HH11	1.58	0.69
1:AD:284:ARG:HH11	1:AD:284:ARG:HG2	1.57	0.69
1:AG:74:ASN:HB3	1:AG:126:GLU:HG2	1.75	0.69
1:AH:189:PHE:HE2	1:AH:249:LEU:HD21	1.56	0.69
1:AI:14:CYS:H	1:AI:138:ASN:HD21	1.41	0.69
1:AK:191:LEU:H	1:AK:191:LEU:CD2	2.05	0.69
1:AM:191:LEU:H	1:AM:191:LEU:CD2	2.05	0.69
1:AP:284:ARG:HH11	1:AP:284:ARG:CG	2.06	0.69
1:BI:284:ARG:HH11	1:BI:284:ARG:HG2	1.57	0.69
1:CA:79:ARG:HG3	1:CA:79:ARG:HH11	1.58	0.69
1:CA:191:LEU:H	1:CA:191:LEU:CD2	2.06	0.69
1:CE:189:PHE:CE1	1:CE:198:ARG:HG3	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CH:15:GLN:HA	1:CH:15:GLN:HE21	1.57	0.69
1:CJ:189:PHE:HE2	1:CJ:249:LEU:HD21	1.58	0.69
1:AD:33:LYS:O	1:AD:33:LYS:HG2	1.93	0.69
1:AD:272:TYR:CE2	1:AS:55:ARG:CD	2.76	0.69
1:AE:14:CYS:H	1:AE:138:ASN:HD21	1.39	0.69
1:AF:55:ARG:CD	1:BH:272:TYR:CE2	2.76	0.69
1:AI:22:THR:OG1	1:AI:131:HIS:HD2	1.75	0.69
1:BB:189:PHE:CE1	1:BB:198:ARG:HG3	2.28	0.69
1:BB:250:TRP:CZ3	1:BB:272:TYR:HE1	2.11	0.69
1:CF:250:TRP:CZ3	1:CF:272:TYR:HE1	2.09	0.69
1:CG:191:LEU:H	1:CG:191:LEU:CD2	2.06	0.69
1:AA:284:ARG:HH11	1:AA:284:ARG:CG	2.06	0.68
1:AG:36:GLN:NE2	1:AG:156:LEU:H	1.91	0.68
1:AL:14:CYS:H	1:AL:138:ASN:HD21	1.40	0.68
1:AL:79:ARG:HH11	1:AL:79:ARG:CG	2.06	0.68
1:AL:272:TYR:CE2	1:CJ:55:ARG:CZ	2.75	0.68
1:BC:272:TYR:CD2	1:CA:55:ARG:HD3	2.27	0.68
1:BJ:272:TYR:HE2	1:BQ:55:ARG:CD	2.05	0.68
1:BN:33:LYS:O	1:BN:33:LYS:HG2	1.93	0.68
1:CB:189:PHE:CE1	1:CB:198:ARG:HG3	2.28	0.68
1:CK:284:ARG:HH11	1:CK:284:ARG:CG	2.06	0.68
1:CQ:284:ARG:HH11	1:CQ:284:ARG:CG	2.06	0.68
1:CR:189:PHE:HE2	1:CR:249:LEU:HD21	1.57	0.68
1:AC:22:THR:OG1	1:AC:131:HIS:HD2	1.76	0.68
1:AL:272:TYR:CD2	1:CJ:55:ARG:CZ	2.76	0.68
1:AM:189:PHE:CE1	1:AM:198:ARG:HG3	2.28	0.68
1:AT:55:ARG:CD	1:BA:272:TYR:CE2	2.76	0.68
1:BC:284:ARG:HH11	1:BC:284:ARG:CG	2.07	0.68
1:BH:74:ASN:HB3	1:BH:126:GLU:HG2	1.74	0.68
1:BQ:189:PHE:CE1	1:BQ:198:ARG:HG3	2.29	0.68
1:BT:74:ASN:HB3	1:BT:126:GLU:HG2	1.74	0.68
1:CI:284:ARG:HH11	1:CI:284:ARG:CG	2.06	0.68
1:CP:191:LEU:H	1:CP:191:LEU:CD2	2.05	0.68
1:CR:22:THR:OG1	1:CR:131:HIS:HD2	1.76	0.68
1:AJ:22:THR:OG1	1:AJ:131:HIS:HD2	1.76	0.68
1:BF:191:LEU:H	1:BF:191:LEU:CD2	2.05	0.68
1:BI:189:PHE:CE1	1:BI:198:ARG:HG3	2.28	0.68
1:BK:284:ARG:HG2	1:BK:284:ARG:HH11	1.57	0.68
1:CK:191:LEU:H	1:CK:191:LEU:CD2	2.07	0.68
1:CM:33:LYS:O	1:CM:33:LYS:HG2	1.93	0.68
1:CO:22:THR:OG1	1:CO:131:HIS:HD2	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:36:GLN:NE2	1:AA:156:LEU:H	1.92	0.68
1:AF:189:PHE:CE1	1:AF:198:ARG:HG3	2.26	0.68
1:AJ:55:ARG:HD3	1:BL:272:TYR:CD2	2.28	0.68
1:AK:284:ARG:HH11	1:AK:284:ARG:CG	2.06	0.68
1:AP:191:LEU:H	1:AP:191:LEU:CD2	2.05	0.68
1:AQ:272:TYR:CE2	1:BL:55:ARG:NE	2.62	0.68
1:BD:55:ARG:CD	1:BN:272:TYR:HE2	2.07	0.68
1:BG:189:PHE:HE2	1:BG:249:LEU:HD21	1.57	0.68
1:BH:55:ARG:NE	1:BK:272:TYR:CE2	2.61	0.68
1:CH:284:ARG:HG2	1:CH:284:ARG:HH11	1.59	0.68
1:CO:272:TYR:CE2	1:CR:55:ARG:CZ	2.76	0.68
1:AN:250:TRP:CZ3	1:AN:272:TYR:HE1	2.10	0.68
1:AO:272:TYR:CD2	1:AR:55:ARG:HD3	2.29	0.68
1:BB:16:ALA:O	1:BB:17:ASN:HB2	1.92	0.68
1:BC:284:ARG:HH11	1:BC:284:ARG:HG2	1.59	0.68
1:CB:16:ALA:O	1:CB:17:ASN:HB2	1.93	0.68
1:CH:189:PHE:HE2	1:CH:249:LEU:HD21	1.59	0.68
1:CK:189:PHE:HE1	1:CK:198:ARG:HG3	1.58	0.68
1:CL:189:PHE:CE1	1:CL:198:ARG:HG3	2.28	0.68
1:CN:284:ARG:HH11	1:CN:284:ARG:CG	2.06	0.68
1:CR:86:PRO:C	1:CR:88:TYR:N	2.47	0.68
1:AK:189:PHE:CE1	1:AK:198:ARG:HG3	2.28	0.68
1:AO:33:LYS:O	1:AO:33:LYS:HG2	1.94	0.68
1:AS:74:ASN:HB3	1:AS:126:GLU:HG2	1.74	0.68
1:BM:22:THR:OG1	1:BM:131:HIS:HD2	1.76	0.68
1:BP:189:PHE:CE1	1:BP:198:ARG:HG3	2.28	0.68
1:CB:250:TRP:CZ3	1:CB:272:TYR:HE1	2.11	0.68
1:CE:189:PHE:HE2	1:CE:249:LEU:HD21	1.59	0.68
1:CH:191:LEU:H	1:CH:191:LEU:CD2	2.07	0.68
1:CL:191:LEU:H	1:CL:191:LEU:CD2	2.06	0.68
1:CS:22:THR:OG1	1:CS:131:HIS:HD2	1.76	0.68
1:AE:250:TRP:CZ3	1:AE:272:TYR:HE1	2.11	0.68
1:AH:272:TYR:CE2	1:CF:55:ARG:HD3	2.28	0.68
1:AI:36:GLN:NE2	1:AI:156:LEU:H	1.92	0.68
1:AI:191:LEU:H	1:AI:191:LEU:CD2	2.07	0.68
1:AI:454:ASN:HD22	1:AI:456:ALA:H	1.39	0.68
1:AL:189:PHE:HE1	1:AL:198:ARG:HG3	1.58	0.68
1:BB:55:ARG:NE	1:CB:272:TYR:HE2	1.92	0.68
1:BB:55:ARG:CD	1:CB:272:TYR:HE2	2.07	0.68
1:BK:22:THR:OG1	1:BK:131:HIS:HD2	1.76	0.68
1:BT:284:ARG:HH11	1:BT:284:ARG:CG	2.07	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CG:189:PHE:CE1	1:CG:198:ARG:CG	2.77	0.68
1:CN:22:THR:OG1	1:CN:131:HIS:HD2	1.76	0.68
1:AE:33:LYS:HG2	1:AE:33:LYS:O	1.92	0.68
1:AI:189:PHE:HE2	1:AI:249:LEU:HD21	1.58	0.68
1:AL:33:LYS:O	1:AL:33:LYS:HG2	1.94	0.68
1:AT:36:GLN:NE2	1:AT:156:LEU:H	1.92	0.68
1:BD:189:PHE:HE1	1:BD:198:ARG:HG3	1.58	0.68
1:BN:284:ARG:HH11	1:BN:284:ARG:CG	2.06	0.68
1:BR:284:ARG:HG2	1:BR:284:ARG:HH11	1.59	0.68
1:CA:22:THR:OG1	1:CA:131:HIS:HD2	1.75	0.68
1:CA:189:PHE:HE1	1:CA:198:ARG:HG3	1.58	0.68
1:CF:33:LYS:HG2	1:CF:33:LYS:O	1.94	0.68
1:CH:74:ASN:HB3	1:CH:126:GLU:HG2	1.74	0.68
1:CK:284:ARG:HH11	1:CK:284:ARG:HG2	1.59	0.68
1:AC:74:ASN:HB3	1:AC:126:GLU:HG2	1.75	0.68
1:AC:284:ARG:HH11	1:AC:284:ARG:HG2	1.59	0.68
1:AE:189:PHE:CE1	1:AE:198:ARG:HG3	2.26	0.68
1:AI:272:TYR:HD2	1:AO:55:ARG:HD3	1.56	0.68
1:BE:74:ASN:HB3	1:BE:126:GLU:HG2	1.74	0.68
1:BM:284:ARG:HH11	1:BM:284:ARG:HG2	1.59	0.68
1:BT:191:LEU:H	1:BT:191:LEU:CD2	2.06	0.68
1:CO:284:ARG:HG2	1:CO:284:ARG:HH11	1.58	0.68
1:CP:454:ASN:HD22	1:CP:456:ALA:H	1.40	0.68
1:AE:55:ARG:NE	1:CP:272:TYR:HE2	1.88	0.68
1:AG:189:PHE:CE1	1:AG:198:ARG:HG3	2.29	0.68
1:AG:259:THR:CG2	1:AG:268:TYR:OH	2.42	0.68
1:AT:284:ARG:HG2	1:AT:284:ARG:HH11	1.59	0.68
1:BA:189:PHE:CE1	1:BA:198:ARG:HG3	2.29	0.68
1:BD:272:TYR:HE2	1:BS:55:ARG:CD	2.06	0.68
1:CI:189:PHE:CE1	1:CI:198:ARG:HG3	2.28	0.68
1:AD:14:CYS:H	1:AD:138:ASN:HD21	1.42	0.67
1:AR:284:ARG:HH11	1:AR:284:ARG:CG	2.06	0.67
1:BE:189:PHE:CE1	1:BE:198:ARG:HG3	2.29	0.67
1:BG:284:ARG:HH11	1:BG:284:ARG:HG2	1.60	0.67
1:BO:272:TYR:CD2	1:BR:55:ARG:HD3	2.29	0.67
1:CF:189:PHE:HE2	1:CF:249:LEU:HD21	1.59	0.67
1:AF:272:TYR:HE2	1:BK:55:ARG:CD	2.07	0.67
1:AH:272:TYR:CD2	1:CF:55:ARG:HD3	2.28	0.67
1:AJ:55:ARG:CD	1:BL:272:TYR:HE2	2.07	0.67
1:AM:16:ALA:O	1:AM:17:ASN:HB2	1.92	0.67
1:AM:189:PHE:HE2	1:AM:249:LEU:HD21	1.58	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:36:GLN:NE2	1:AO:156:LEU:H	1.92	0.67
1:BA:79:ARG:HH11	1:BA:79:ARG:CG	2.06	0.67
1:BG:284:ARG:HH11	1:BG:284:ARG:CG	2.06	0.67
1:BH:191:LEU:H	1:BH:191:LEU:CD2	2.07	0.67
1:BJ:33:LYS:HG2	1:BJ:33:LYS:O	1.94	0.67
1:BQ:191:LEU:H	1:BQ:191:LEU:CD2	2.07	0.67
1:AG:16:ALA:O	1:AG:17:ASN:HB2	1.94	0.67
1:BE:22:THR:OG1	1:BE:131:HIS:HD2	1.76	0.67
1:BF:55:ARG:NE	1:CH:272:TYR:CE2	2.63	0.67
1:CB:36:GLN:NE2	1:CB:156:LEU:H	1.92	0.67
1:CF:191:LEU:H	1:CF:191:LEU:CD2	2.07	0.67
1:CO:284:ARG:HH11	1:CO:284:ARG:CG	2.07	0.67
1:CQ:33:LYS:HG2	1:CQ:33:LYS:O	1.93	0.67
1:BD:55:ARG:HD3	1:BN:272:TYR:CE2	2.28	0.67
1:BJ:55:ARG:NE	1:CL:272:TYR:CE2	2.62	0.67
1:BL:284:ARG:HH11	1:BL:284:ARG:CG	2.07	0.67
1:BM:33:LYS:HG2	1:BM:33:LYS:O	1.93	0.67
1:CM:189:PHE:HE2	1:CM:249:LEU:HD21	1.58	0.67
1:AA:272:TYR:CD2	1:CT:55:ARG:HD3	2.29	0.67
1:AD:191:LEU:H	1:AD:191:LEU:CD2	2.07	0.67
1:AG:22:THR:OG1	1:AG:131:HIS:HD2	1.77	0.67
1:AK:55:ARG:CD	1:CF:272:TYR:HE2	2.08	0.67
1:CD:55:ARG:CD	1:CN:272:TYR:HE2	2.08	0.67
1:CE:79:ARG:HH11	1:CE:79:ARG:HG3	1.60	0.67
1:AD:272:TYR:HE2	1:AS:55:ARG:CD	2.08	0.67
1:AP:74:ASN:HB3	1:AP:126:GLU:HG2	1.76	0.67
1:AQ:189:PHE:HE1	1:AQ:198:ARG:HG3	1.60	0.67
1:BD:55:ARG:NE	1:BN:272:TYR:CE2	2.63	0.67
1:BE:191:LEU:H	1:BE:191:LEU:CD2	2.06	0.67
1:BE:284:ARG:CG	1:BE:284:ARG:HH11	2.07	0.67
1:CC:74:ASN:HB3	1:CC:126:GLU:HG2	1.75	0.67
1:CE:74:ASN:HB3	1:CE:126:GLU:HG2	1.76	0.67
1:AB:22:THR:OG1	1:AB:131:HIS:HD2	1.78	0.67
1:AB:256:ASN:CG	1:AB:256:ASN:O	2.30	0.67
1:AJ:189:PHE:HE2	1:AJ:249:LEU:HD21	1.59	0.67
1:AT:74:ASN:HB3	1:AT:126:GLU:HG2	1.75	0.67
1:BC:191:LEU:H	1:BC:191:LEU:CD2	2.08	0.67
1:BM:191:LEU:H	1:BM:191:LEU:CD2	2.06	0.67
1:CD:36:GLN:NE2	1:CD:156:LEU:H	1.93	0.67
1:CG:284:ARG:CG	1:CG:284:ARG:HH11	2.07	0.67
1:BE:189:PHE:HE2	1:BE:249:LEU:HD21	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BI:189:PHE:HE2	1:BI:249:LEU:HD21	1.59	0.67
1:BK:284:ARG:HH11	1:BK:284:ARG:CG	2.07	0.67
1:BQ:272:TYR:CE2	1:CL:55:ARG:CD	2.78	0.67
1:CC:189:PHE:HE1	1:CC:198:ARG:HG3	1.59	0.67
1:CD:33:LYS:O	1:CD:33:LYS:HG2	1.95	0.67
1:CF:189:PHE:CE1	1:CF:198:ARG:HG3	2.29	0.67
1:CT:191:LEU:H	1:CT:191:LEU:CD2	2.08	0.67
1:AI:284:ARG:HH11	1:AI:284:ARG:HG2	1.58	0.67
1:AK:36:GLN:NE2	1:AK:156:LEU:H	1.92	0.67
1:AS:284:ARG:HH11	1:AS:284:ARG:HG2	1.58	0.67
1:BD:454:ASN:HD22	1:BD:456:ALA:H	1.43	0.67
1:BJ:284:ARG:HH11	1:BJ:284:ARG:CG	2.08	0.67
1:BQ:284:ARG:HG2	1:BQ:284:ARG:NH1	2.09	0.67
1:BS:284:ARG:CG	1:BS:284:ARG:HH11	2.08	0.67
1:CS:250:TRP:CZ3	1:CS:272:TYR:HE1	2.12	0.67
1:AE:55:ARG:HD3	1:CP:272:TYR:CD2	2.30	0.67
1:AI:74:ASN:HB3	1:AI:126:GLU:HG2	1.76	0.67
1:AR:284:ARG:HH11	1:AR:284:ARG:HG2	1.60	0.67
1:AT:55:ARG:CD	1:BA:272:TYR:HE2	2.08	0.67
1:AT:284:ARG:HH11	1:AT:284:ARG:CG	2.08	0.67
1:BC:272:TYR:CE2	1:CA:55:ARG:CD	2.78	0.67
1:BH:189:PHE:CE1	1:BH:198:ARG:HG3	2.28	0.67
1:CR:189:PHE:CE1	1:CR:198:ARG:HG3	2.29	0.67
1:AE:191:LEU:H	1:AE:191:LEU:CD2	2.08	0.66
1:AE:284:ARG:HH11	1:AE:284:ARG:CG	2.08	0.66
1:AH:55:ARG:CZ	1:AK:272:TYR:CD2	2.79	0.66
1:BF:55:ARG:HD3	1:CH:272:TYR:CD2	2.31	0.66
1:BF:272:TYR:HE2	1:CK:55:ARG:CD	2.08	0.66
1:CH:284:ARG:HH11	1:CH:284:ARG:CG	2.08	0.66
1:CK:74:ASN:HB3	1:CK:126:GLU:HG2	1.76	0.66
1:CM:74:ASN:HB3	1:CM:126:GLU:HG2	1.77	0.66
1:CR:85:ASP:OD1	1:CR:85:ASP:C	2.29	0.66
1:AR:14:CYS:H	1:AR:138:ASN:HD21	1.42	0.66
1:BC:189:PHE:CE1	1:BC:198:ARG:HG3	2.30	0.66
1:BR:284:ARG:HH11	1:BR:284:ARG:CG	2.07	0.66
1:BT:55:ARG:HD3	1:CA:272:TYR:CE2	2.30	0.66
1:CB:284:ARG:HH11	1:CB:284:ARG:CG	2.08	0.66
1:CG:74:ASN:HB3	1:CG:126:GLU:HG2	1.78	0.66
1:AC:191:LEU:H	1:AC:191:LEU:CD2	2.06	0.66
1:BA:191:LEU:H	1:BA:191:LEU:CD2	2.08	0.66
1:AB:189:PHE:CE1	1:AB:198:ARG:HG3	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:36:GLN:NE2	1:AE:156:LEU:H	1.94	0.66
1:AL:55:ARG:NE	1:CQ:272:TYR:CE2	2.64	0.66
1:BL:191:LEU:H	1:BL:191:LEU:CD2	2.09	0.66
1:BN:55:ARG:CD	1:BS:272:TYR:CE2	2.78	0.66
1:CO:250:TRP:CE3	1:CO:272:TYR:CE1	2.83	0.66
1:CT:22:THR:OG1	1:CT:131:HIS:HD2	1.78	0.66
1:AN:189:PHE:HE2	1:AN:249:LEU:CD2	2.08	0.66
1:BA:284:ARG:HH11	1:BA:284:ARG:HG2	1.61	0.66
1:BI:55:ARG:CZ	1:BR:272:TYR:CE2	2.78	0.66
1:CD:79:ARG:HH11	1:CD:79:ARG:CG	2.07	0.66
1:CH:250:TRP:CZ3	1:CH:272:TYR:HE1	2.12	0.66
1:CN:14:CYS:H	1:CN:138:ASN:HD21	1.41	0.66
1:CP:250:TRP:CE3	1:CP:272:TYR:CE1	2.84	0.66
1:CP:284:ARG:HH11	1:CP:284:ARG:CG	2.07	0.66
1:CR:191:LEU:H	1:CR:191:LEU:CD2	2.09	0.66
1:AE:272:TYR:CD2	1:AM:55:ARG:HD3	2.30	0.66
1:AH:36:GLN:NE2	1:AH:156:LEU:H	1.94	0.66
1:BI:55:ARG:HD3	1:BR:272:TYR:CD2	2.31	0.66
1:BJ:189:PHE:HE2	1:BJ:249:LEU:HD21	1.61	0.66
1:BM:11:PRO:HG2	1:BM:18:ARG:HD3	1.76	0.66
1:CD:74:ASN:HB3	1:CD:126:GLU:HG2	1.77	0.66
1:CH:22:THR:OG1	1:CH:131:HIS:HD2	1.79	0.66
1:CI:74:ASN:CB	1:CI:126:GLU:HG2	2.26	0.66
1:CI:378:ARG:HG3	1:CI:379:VAL:H	1.61	0.66
1:CM:189:PHE:CE1	1:CM:198:ARG:HG3	2.28	0.66
1:CM:284:ARG:HH11	1:CM:284:ARG:HG2	1.60	0.66
1:CO:74:ASN:HB3	1:CO:126:GLU:HG2	1.76	0.66
1:CO:191:LEU:H	1:CO:191:LEU:CD2	2.07	0.66
1:AN:284:ARG:HH11	1:AN:284:ARG:CG	2.08	0.66
1:BF:33:LYS:O	1:BF:33:LYS:HG2	1.96	0.66
1:BS:79:ARG:HH11	1:BS:79:ARG:CG	2.04	0.66
1:BS:189:PHE:CE1	1:BS:198:ARG:HG3	2.31	0.66
1:CA:250:TRP:CZ3	1:CA:272:TYR:HE1	2.14	0.66
1:CB:284:ARG:HH11	1:CB:284:ARG:HG2	1.59	0.66
1:CG:16:ALA:O	1:CG:17:ASN:HB2	1.95	0.66
1:CN:74:ASN:ND2	1:CN:77:THR:OG1	2.27	0.66
1:CR:86:PRO:HG2	1:CR:87:VAL:H	1.60	0.66
1:BD:272:TYR:CE2	1:BS:55:ARG:CD	2.78	0.66
1:BK:250:TRP:CZ3	1:BK:272:TYR:HE1	2.13	0.66
1:CC:191:LEU:H	1:CC:191:LEU:CD2	2.07	0.66
1:CN:189:PHE:CE1	1:CN:198:ARG:CG	2.79	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:250:TRP:CZ3	1:AD:272:TYR:HE1	2.14	0.66
1:AK:22:THR:OG1	1:AK:131:HIS:HD2	1.79	0.66
1:BL:189:PHE:CE1	1:BL:198:ARG:HG3	2.31	0.66
1:CR:250:TRP:CZ3	1:CR:272:TYR:HE1	2.14	0.66
1:AH:189:PHE:CE1	1:AH:198:ARG:HG3	2.31	0.65
1:AO:272:TYR:HE2	1:AR:55:ARG:NE	1.89	0.65
1:BN:36:GLN:NE2	1:BN:156:LEU:H	1.94	0.65
1:CA:284:ARG:HH11	1:CA:284:ARG:CG	2.09	0.65
1:CL:79:ARG:HG3	1:CL:79:ARG:HH11	1.59	0.65
1:AP:284:ARG:HH11	1:AP:284:ARG:HG2	1.62	0.65
1:BB:74:ASN:HB3	1:BB:126:GLU:HG2	1.79	0.65
1:BE:189:PHE:CE1	1:BE:198:ARG:CG	2.78	0.65
1:CT:250:TRP:CZ3	1:CT:272:TYR:HE1	2.14	0.65
1:AB:189:PHE:HE2	1:AB:249:LEU:HD21	1.59	0.65
1:BJ:284:ARG:HH11	1:BJ:284:ARG:HG2	1.62	0.65
1:BN:284:ARG:HH11	1:BN:284:ARG:HG2	1.62	0.65
1:CD:191:LEU:H	1:CD:191:LEU:CD2	2.09	0.65
1:AL:284:ARG:HH11	1:AL:284:ARG:HG2	1.60	0.65
1:AO:189:PHE:HE1	1:AO:198:ARG:HG3	1.61	0.65
1:AQ:191:LEU:H	1:AQ:191:LEU:CD2	2.08	0.65
1:AR:189:PHE:HE2	1:AR:249:LEU:CD2	2.09	0.65
1:BD:74:ASN:HB3	1:BD:126:GLU:HG2	1.77	0.65
1:BQ:272:TYR:HE2	1:CL:55:ARG:CD	2.09	0.65
1:BR:189:PHE:HE2	1:BR:249:LEU:HD21	1.61	0.65
1:CB:189:PHE:HE2	1:CB:249:LEU:HD21	1.61	0.65
1:CD:272:TYR:CE2	1:CS:55:ARG:HD3	2.30	0.65
1:CI:55:ARG:CD	1:CR:272:TYR:HE2	2.08	0.65
1:AD:36:GLN:NE2	1:AD:156:LEU:H	1.95	0.65
1:BK:189:PHE:CE1	1:BK:198:ARG:HG3	2.32	0.65
1:CG:284:ARG:HH11	1:CG:284:ARG:HG2	1.62	0.65
1:CS:284:ARG:HH11	1:CS:284:ARG:CG	2.09	0.65
1:AD:22:THR:OG1	1:AD:131:HIS:HD2	1.79	0.65
1:AF:55:ARG:CD	1:BH:272:TYR:HE2	2.10	0.65
1:AH:191:LEU:H	1:AH:191:LEU:CD2	2.10	0.65
1:AI:272:TYR:CD2	1:AO:55:ARG:CD	2.79	0.65
1:BH:284:ARG:HH11	1:BH:284:ARG:HG2	1.61	0.65
1:CN:16:ALA:O	1:CN:17:ASN:HB2	1.97	0.65
1:AB:256:ASN:O	1:AB:256:ASN:ND2	2.30	0.65
1:AB:262:TRP:O	1:AB:265:LEU:N	2.30	0.65
1:AF:284:ARG:HH11	1:AF:284:ARG:HG2	1.61	0.65
1:BF:55:ARG:CD	1:CH:272:TYR:CE2	2.80	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:189:PHE:HE2	1:BF:249:LEU:HD21	1.62	0.65
1:CD:284:ARG:HG2	1:CD:284:ARG:NH1	2.12	0.65
1:CF:288:HIS:HD2	1:CF:337:ASP:OD2	1.79	0.65
1:CI:36:GLN:NE2	1:CI:156:LEU:H	1.94	0.65
1:AA:272:TYR:CE2	1:CT:55:ARG:CD	2.80	0.65
1:AB:36:GLN:NE2	1:AB:156:LEU:H	1.94	0.65
1:AJ:189:PHE:CE1	1:AJ:198:ARG:HG3	2.30	0.65
1:BB:22:THR:OG1	1:BB:131:HIS:HD2	1.80	0.65
1:BG:189:PHE:CE1	1:BG:198:ARG:HG3	2.29	0.65
1:BO:189:PHE:HE1	1:BO:198:ARG:HG3	1.61	0.65
1:CL:14:CYS:H	1:CL:138:ASN:HD21	1.45	0.65
1:CR:80:ILE:O	1:CR:83:SER:N	2.30	0.65
1:AK:250:TRP:CZ3	1:AK:272:TYR:HE1	2.14	0.65
1:AP:250:TRP:CZ3	1:AP:272:TYR:HE1	2.14	0.65
1:AS:36:GLN:NE2	1:AS:156:LEU:H	1.95	0.65
1:BB:189:PHE:CE1	1:BB:198:ARG:CG	2.78	0.65
1:BF:36:GLN:NE2	1:BF:156:LEU:H	1.94	0.65
1:BK:191:LEU:H	1:BK:191:LEU:CD2	2.09	0.65
1:CC:189:PHE:CE1	1:CC:198:ARG:HG3	2.32	0.65
1:AN:191:LEU:H	1:AN:191:LEU:CD2	2.10	0.65
1:AS:189:PHE:CE1	1:AS:198:ARG:HG3	2.32	0.65
1:AT:189:PHE:CE1	1:AT:198:ARG:HG3	2.32	0.65
1:BS:36:GLN:NE2	1:BS:156:LEU:H	1.95	0.65
1:CH:55:ARG:NE	1:CK:272:TYR:CE2	2.65	0.65
1:CH:189:PHE:CE1	1:CH:198:ARG:HG3	2.30	0.65
1:AC:55:ARG:HD3	1:AT:272:TYR:CE2	2.32	0.64
1:BG:22:THR:OG1	1:BG:131:HIS:HD2	1.80	0.64
1:BJ:272:TYR:CD2	1:BQ:55:ARG:HD3	2.32	0.64
1:BO:272:TYR:CD2	1:BR:55:ARG:CZ	2.80	0.64
1:AJ:189:PHE:CE1	1:AJ:198:ARG:CG	2.79	0.64
1:AJ:284:ARG:HH11	1:AJ:284:ARG:CG	2.10	0.64
1:AM:74:ASN:HB3	1:AM:126:GLU:HG2	1.78	0.64
1:CC:55:ARG:HD3	1:CT:272:TYR:CD2	2.32	0.64
1:CQ:16:ALA:O	1:CQ:17:ASN:HB2	1.95	0.64
1:AG:55:ARG:NE	1:CG:272:TYR:CE2	2.66	0.64
1:AQ:36:GLN:NE2	1:AQ:156:LEU:H	1.94	0.64
1:BI:55:ARG:CZ	1:BR:272:TYR:CD2	2.80	0.64
1:BL:74:ASN:CB	1:BL:126:GLU:HG2	2.27	0.64
1:BN:189:PHE:HE2	1:BN:249:LEU:HD21	1.61	0.64
1:CC:284:ARG:HG2	1:CC:284:ARG:NH1	2.12	0.64
1:CK:14:CYS:H	1:CK:138:ASN:HD21	1.44	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CM:16:ALA:O	1:CM:17:ASN:HB2	1.95	0.64
1:AF:189:PHE:HE2	1:AF:249:LEU:CD2	2.10	0.64
1:AN:74:ASN:CB	1:AN:126:GLU:HG2	2.28	0.64
1:AN:79:ARG:HH11	1:AN:79:ARG:CG	2.11	0.64
1:BE:272:TYR:HE2	1:BM:55:ARG:CD	2.10	0.64
1:BM:189:PHE:HE2	1:BM:249:LEU:CD2	2.10	0.64
1:BR:191:LEU:H	1:BR:191:LEU:CD2	2.09	0.64
1:CH:189:PHE:HE2	1:CH:249:LEU:CD2	2.10	0.64
1:CL:250:TRP:CZ3	1:CL:272:TYR:HE1	2.15	0.64
1:CN:18:ARG:HG3	1:CN:19:TYR:N	2.12	0.64
1:AG:284:ARG:HG2	1:AG:284:ARG:NH1	2.12	0.64
1:AJ:36:GLN:NE2	1:AJ:156:LEU:H	1.96	0.64
1:AM:250:TRP:CZ3	1:AM:272:TYR:HE1	2.16	0.64
1:BA:74:ASN:CB	1:BA:126:GLU:HG2	2.28	0.64
1:BG:36:GLN:NE2	1:BG:156:LEU:H	1.95	0.64
1:BG:250:TRP:CZ3	1:BG:272:TYR:HE1	2.13	0.64
1:BG:272:TYR:HE2	1:CG:55:ARG:CD	2.10	0.64
1:CF:79:ARG:HG3	1:CF:79:ARG:NH1	2.00	0.64
1:CF:284:ARG:HH11	1:CF:284:ARG:CG	2.10	0.64
1:CJ:284:ARG:HH11	1:CJ:284:ARG:CG	2.10	0.64
1:AA:74:ASN:HB3	1:AA:126:GLU:HG2	1.78	0.64
1:AC:189:PHE:HE1	1:AC:198:ARG:HG3	1.63	0.64
1:AF:250:TRP:CZ3	1:AF:272:TYR:HE1	2.15	0.64
1:AT:191:LEU:H	1:AT:191:LEU:CD2	2.08	0.64
1:AN:16:ALA:O	1:AN:17:ASN:HB2	1.97	0.64
1:BB:239:ILE:HG12	1:BB:326:ILE:CD1	2.27	0.64
1:BC:74:ASN:HB3	1:BC:126:GLU:HG2	1.78	0.64
1:BE:284:ARG:HH11	1:BE:284:ARG:HG2	1.61	0.64
1:BF:74:ASN:HB3	1:BF:126:GLU:HG2	1.80	0.64
1:BF:250:TRP:CZ3	1:BF:272:TYR:HE1	2.14	0.64
1:BF:272:TYR:CD2	1:CK:55:ARG:HD3	2.32	0.64
1:BI:55:ARG:HD3	1:BR:272:TYR:CE2	2.33	0.64
1:BP:74:ASN:HB3	1:BP:126:GLU:HG2	1.80	0.64
1:CP:189:PHE:CE1	1:CP:198:ARG:HG3	2.33	0.64
1:AG:263:ASN:O	1:BG:32:PHE:CE1	2.51	0.64
1:AI:55:ARG:CD	1:AR:272:TYR:HE2	2.11	0.64
1:AM:189:PHE:CE1	1:AM:198:ARG:CG	2.80	0.64
1:BB:55:ARG:CZ	1:CB:272:TYR:CE2	2.81	0.64
1:BL:16:ALA:O	1:BL:17:ASN:HB2	1.98	0.64
1:BL:284:ARG:HH11	1:BL:284:ARG:HG2	1.63	0.64
1:BM:74:ASN:HB3	1:BM:126:GLU:HG2	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CK:22:THR:OG1	1:CK:131:HIS:HD2	1.81	0.64
1:CN:55:ARG:CD	1:CS:272:TYR:CE2	2.80	0.64
1:CR:85:ASP:OD1	1:CR:86:PRO:N	2.31	0.64
1:AF:55:ARG:HD3	1:BH:272:TYR:CD2	2.33	0.64
1:AG:269:PRO:O	1:AG:269:PRO:CG	2.46	0.64
1:AJ:272:TYR:CD2	1:AQ:55:ARG:HD3	2.32	0.64
1:AN:284:ARG:HH11	1:AN:284:ARG:HG2	1.63	0.64
1:AR:36:GLN:NE2	1:AR:156:LEU:H	1.95	0.64
1:BH:250:TRP:CZ3	1:BH:272:TYR:HE1	2.15	0.64
1:BJ:189:PHE:CE1	1:BJ:198:ARG:CG	2.81	0.64
1:BR:189:PHE:CE1	1:BR:198:ARG:HG3	2.29	0.64
1:CA:67:VAL:HG23	1:CA:135:LEU:HB2	1.79	0.64
1:CL:9:TYR:CE1	1:CL:147:GLN:NE2	2.65	0.64
1:CR:74:ASN:HB3	1:CR:126:GLU:HG2	1.79	0.64
1:AJ:55:ARG:HD3	1:BL:272:TYR:CE2	2.32	0.64
1:AM:284:ARG:HG2	1:AM:284:ARG:NH1	2.09	0.64
1:BI:250:TRP:CZ3	1:BI:272:TYR:HE1	2.16	0.64
1:CE:189:PHE:CE1	1:CE:198:ARG:CG	2.81	0.64
1:CQ:284:ARG:HH11	1:CQ:284:ARG:HG2	1.62	0.64
1:CR:80:ILE:HA	1:CR:83:SER:O	1.98	0.64
1:AB:74:ASN:CB	1:AB:126:GLU:HG2	2.29	0.63
1:BE:36:GLN:NE2	1:BE:156:LEU:H	1.96	0.63
1:BP:272:TYR:CE2	1:CE:55:ARG:CZ	2.81	0.63
1:BR:250:TRP:CZ3	1:BR:272:TYR:HE1	2.15	0.63
1:BT:55:ARG:HD3	1:CA:272:TYR:CD2	2.32	0.63
1:CF:284:ARG:HH11	1:CF:284:ARG:HG2	1.63	0.63
1:CI:250:TRP:CZ3	1:CI:272:TYR:HE1	2.15	0.63
1:CQ:14:CYS:H	1:CQ:138:ASN:HD21	1.43	0.63
1:CQ:189:PHE:HE1	1:CQ:198:ARG:HG3	1.62	0.63
1:AG:191:LEU:H	1:AG:191:LEU:CD2	2.07	0.63
1:AG:259:THR:HG21	1:AG:268:TYR:OH	1.98	0.63
1:AL:36:GLN:NE2	1:AL:156:LEU:H	1.95	0.63
1:AM:36:GLN:NE2	1:AM:156:LEU:H	1.96	0.63
1:AM:272:TYR:CE2	1:CP:55:ARG:CD	2.81	0.63
1:BB:14:CYS:H	1:BB:138:ASN:HD21	1.45	0.63
1:BG:79:ARG:HH11	1:BG:79:ARG:HG3	1.62	0.63
1:BT:14:CYS:H	1:BT:138:ASN:HD21	1.46	0.63
1:BT:74:ASN:CB	1:BT:126:GLU:HG2	2.28	0.63
1:CE:250:TRP:CE3	1:CE:272:TYR:CE1	2.86	0.63
1:CK:189:PHE:CE1	1:CK:198:ARG:HG3	2.33	0.63
1:AC:55:ARG:HD3	1:AT:272:TYR:CD2	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BH:14:CYS:H	1:BH:138:ASN:HD21	1.46	0.63
1:BQ:22:THR:OG1	1:BQ:131:HIS:HD2	1.81	0.63
1:CC:55:ARG:HD3	1:CT:272:TYR:CE2	2.33	0.63
1:CD:442:GLN:HE21	1:CE:412:PHE:HB2	1.63	0.63
1:CF:454:ASN:HD22	1:CF:456:ALA:N	1.96	0.63
1:BG:191:LEU:H	1:BG:191:LEU:CD2	2.08	0.63
1:CD:250:TRP:CE3	1:CD:272:TYR:CE1	2.86	0.63
1:CE:272:TYR:CD2	1:CM:55:ARG:CZ	2.81	0.63
1:CL:36:GLN:NE2	1:CL:156:LEU:H	1.97	0.63
1:CM:189:PHE:HE2	1:CM:249:LEU:CD2	2.11	0.63
1:AG:250:TRP:CE3	1:AG:272:TYR:CE1	2.86	0.63
1:AH:22:THR:OG1	1:AH:131:HIS:HD2	1.81	0.63
1:AH:55:ARG:CD	1:AK:272:TYR:CD2	2.81	0.63
1:AT:55:ARG:HD3	1:BA:272:TYR:CD2	2.33	0.63
1:BB:36:GLN:NE2	1:BB:156:LEU:H	1.96	0.63
1:BG:189:PHE:CE1	1:BG:198:ARG:CG	2.81	0.63
1:BP:284:ARG:HH11	1:BP:284:ARG:CG	2.12	0.63
1:BS:191:LEU:H	1:BS:191:LEU:CD2	2.08	0.63
1:BT:284:ARG:HH11	1:BT:284:ARG:HG2	1.63	0.63
1:CT:284:ARG:HG2	1:CT:284:ARG:NH1	2.13	0.63
1:AA:55:ARG:CD	1:CC:272:TYR:HE2	2.11	0.63
1:AC:272:TYR:CE2	1:BA:55:ARG:NE	2.66	0.63
1:AD:55:ARG:HD3	1:AN:272:TYR:CD2	2.34	0.63
1:AH:284:ARG:HH11	1:AH:284:ARG:HG2	1.63	0.63
1:BH:36:GLN:NE2	1:BH:156:LEU:H	1.96	0.63
1:BL:239:ILE:HG12	1:BL:326:ILE:CD1	2.29	0.63
1:BS:74:ASN:CB	1:BS:126:GLU:HG2	2.28	0.63
1:CE:14:CYS:H	1:CE:138:ASN:HD21	1.45	0.63
1:AO:22:THR:OG1	1:AO:131:HIS:HD2	1.82	0.63
1:BB:55:ARG:CD	1:CB:272:TYR:CE2	2.82	0.63
1:BE:79:ARG:HG3	1:BE:79:ARG:HH11	1.63	0.63
1:CS:189:PHE:CE1	1:CS:198:ARG:HG3	2.34	0.63
1:AA:14:CYS:H	1:AA:138:ASN:HD21	1.45	0.63
1:AB:262:TRP:O	1:AB:263:ASN:C	2.30	0.63
1:AF:191:LEU:H	1:AF:191:LEU:CD2	2.11	0.63
1:AG:270:GLY:C	1:AG:271:VAL:HG13	2.19	0.63
1:AH:55:ARG:HD3	1:AK:272:TYR:CE2	2.31	0.63
1:BB:79:ARG:HG3	1:BB:79:ARG:HH11	1.64	0.63
1:BF:67:VAL:HG23	1:BF:135:LEU:HB2	1.80	0.63
1:BI:272:TYR:CE2	1:BO:55:ARG:CD	2.81	0.63
1:BR:36:GLN:NE2	1:BR:156:LEU:H	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CK:250:TRP:CZ3	1:CK:272:TYR:HE1	2.13	0.63
1:AB:261:ASP:OD1	1:AB:263:ASN:N	2.31	0.63
1:AD:189:PHE:CE1	1:AD:198:ARG:HG3	2.34	0.63
1:AE:272:TYR:CE2	1:AM:55:ARG:HD3	2.34	0.63
1:AF:79:ARG:HH11	1:AF:79:ARG:CG	2.10	0.63
1:AG:272:TYR:CE2	1:BG:55:ARG:CD	2.81	0.63
1:AH:74:ASN:HB3	1:AH:126:GLU:HG2	1.79	0.63
1:BC:74:ASN:ND2	1:BC:77:THR:OG1	2.32	0.63
1:BO:284:ARG:HG2	1:BO:284:ARG:NH1	2.12	0.63
1:CN:189:PHE:HE2	1:CN:249:LEU:CD2	2.12	0.63
1:AG:263:ASN:ND2	1:BG:32:PHE:CD1	2.67	0.62
1:AN:36:GLN:NE2	1:AN:156:LEU:H	1.96	0.62
1:AP:36:GLN:NE2	1:AP:156:LEU:H	1.97	0.62
1:AR:74:ASN:HB3	1:AR:126:GLU:HG2	1.81	0.62
1:BA:189:PHE:HE1	1:BA:198:ARG:CG	2.11	0.62
1:BI:272:TYR:CE2	1:BO:55:ARG:HD3	2.34	0.62
1:BN:189:PHE:CE1	1:BN:198:ARG:CG	2.79	0.62
1:CD:272:TYR:HE2	1:CS:55:ARG:NE	1.91	0.62
1:CE:36:GLN:NE2	1:CE:156:LEU:H	1.97	0.62
1:CT:189:PHE:CE1	1:CT:198:ARG:HG3	2.33	0.62
1:AG:274:GLU:OE1	1:AG:274:GLU:N	2.30	0.62
1:AM:454:ASN:ND2	1:AM:456:ALA:H	1.96	0.62
1:AR:201:GLY:HA3	1:AR:300:GLN:HG2	1.81	0.62
1:BD:284:ARG:HH11	1:BD:284:ARG:HG2	1.64	0.62
1:BG:15:GLN:HA	1:BG:15:GLN:HE21	1.64	0.62
1:BI:74:ASN:HB3	1:BI:126:GLU:HG2	1.79	0.62
1:BI:239:ILE:HG12	1:BI:326:ILE:CD1	2.30	0.62
1:BS:284:ARG:HH11	1:BS:284:ARG:HG2	1.64	0.62
1:CN:55:ARG:NE	1:CS:272:TYR:CE2	2.67	0.62
1:AD:272:TYR:CD2	1:AS:55:ARG:HD3	2.33	0.62
1:AG:264:GLU:O	1:AG:267:LYS:HB2	1.99	0.62
1:AK:284:ARG:HH11	1:AK:284:ARG:HG2	1.64	0.62
1:BB:288:HIS:HD2	1:BB:337:ASP:OD2	1.82	0.62
1:BP:14:CYS:H	1:BP:138:ASN:HD21	1.47	0.62
1:CC:36:GLN:NE2	1:CC:156:LEU:H	1.98	0.62
1:CG:189:PHE:HE2	1:CG:249:LEU:CD2	2.12	0.62
1:AO:284:ARG:HG2	1:AO:284:ARG:NH1	2.15	0.62
1:BN:55:ARG:CD	1:BS:272:TYR:HE2	2.11	0.62
1:CM:189:PHE:CE1	1:CM:198:ARG:CG	2.79	0.62
1:AI:272:TYR:CD2	1:AO:55:ARG:NE	2.67	0.62
1:AL:250:TRP:CZ3	1:AL:272:TYR:HE1	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CO:272:TYR:CD2	1:CR:55:ARG:HD3	2.34	0.62
1:CP:74:ASN:CB	1:CP:126:GLU:HG2	2.30	0.62
1:CT:36:GLN:NE2	1:CT:156:LEU:H	1.97	0.62
1:AB:250:TRP:HE1	1:AB:265:LEU:CD1	2.00	0.62
1:AF:36:GLN:NE2	1:AF:156:LEU:H	1.97	0.62
1:AK:74:ASN:CB	1:AK:126:GLU:HG2	2.29	0.62
1:AR:189:PHE:CE1	1:AR:198:ARG:CG	2.79	0.62
1:BG:272:TYR:CE2	1:CG:55:ARG:CD	2.83	0.62
1:BI:189:PHE:HE2	1:BI:249:LEU:CD2	2.12	0.62
1:BI:272:TYR:CE2	1:BO:55:ARG:NE	2.68	0.62
1:BN:189:PHE:CE1	1:BN:198:ARG:HG3	2.34	0.62
1:BO:36:GLN:NE2	1:BO:156:LEU:H	1.96	0.62
1:BQ:250:TRP:CZ3	1:BQ:272:TYR:HE1	2.16	0.62
1:CD:14:CYS:H	1:CD:138:ASN:HD21	1.46	0.62
1:CR:284:ARG:CG	1:CR:284:ARG:HH11	2.12	0.62
1:AD:55:ARG:HD3	1:AN:272:TYR:CE2	2.35	0.62
1:AD:284:ARG:HG2	1:AD:284:ARG:NH1	2.14	0.62
1:AL:189:PHE:CE1	1:AL:198:ARG:HG3	2.33	0.62
1:BB:284:ARG:HG2	1:BB:284:ARG:NH1	2.14	0.62
1:BC:272:TYR:CE2	1:CA:55:ARG:NE	2.68	0.62
1:BJ:55:ARG:CD	1:CL:272:TYR:CE2	2.82	0.62
1:BN:250:TRP:CZ3	1:BN:272:TYR:HE1	2.15	0.62
1:CD:189:PHE:HE1	1:CD:198:ARG:HG3	1.64	0.62
1:CH:189:PHE:CE1	1:CH:198:ARG:CG	2.81	0.62
1:CL:284:ARG:HG2	1:CL:284:ARG:NH1	2.14	0.62
1:AB:263:ASN:HD22	1:CB:32:PHE:HA	1.64	0.62
1:AL:272:TYR:CD2	1:CJ:55:ARG:CD	2.80	0.62
1:AL:272:TYR:HD2	1:CJ:55:ARG:HD3	1.62	0.62
1:BF:14:CYS:H	1:BF:138:ASN:HD21	1.47	0.62
1:CA:74:ASN:HB3	1:CA:126:GLU:HG2	1.81	0.62
1:CB:74:ASN:CB	1:CB:126:GLU:HG2	2.30	0.62
1:CE:191:LEU:H	1:CE:191:LEU:CD2	2.09	0.62
1:AF:272:TYR:CE2	1:BK:55:ARG:HD3	2.35	0.62
1:AQ:79:ARG:HG3	1:AQ:79:ARG:HH11	1.64	0.62
1:BF:284:ARG:HG2	1:BF:284:ARG:NH1	2.13	0.62
1:BO:14:CYS:H	1:BO:138:ASN:HD21	1.48	0.62
1:AB:272:TYR:CE2	1:CB:55:ARG:NE	2.67	0.62
1:AQ:284:ARG:CG	1:AQ:284:ARG:HH11	2.11	0.62
1:BD:250:TRP:CE3	1:BD:272:TYR:CE1	2.88	0.62
1:BJ:272:TYR:CD2	1:BQ:55:ARG:CZ	2.82	0.62
1:CJ:36:GLN:NE2	1:CJ:156:LEU:H	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CQ:36:GLN:NE2	1:CQ:156:LEU:H	1.98	0.62
1:AB:55:ARG:HD3	1:BB:272:TYR:CE2	2.36	0.61
1:AG:189:PHE:HE2	1:AG:249:LEU:CD2	2.12	0.61
1:AJ:284:ARG:HH11	1:AJ:284:ARG:HG2	1.65	0.61
1:AL:16:ALA:O	1:AL:17:ASN:HB2	1.98	0.61
1:AM:272:TYR:HE2	1:CP:55:ARG:CD	2.12	0.61
1:AN:55:ARG:HD3	1:AS:272:TYR:CD2	2.34	0.61
1:BB:189:PHE:HE2	1:BB:249:LEU:CD2	2.13	0.61
1:BC:74:ASN:CB	1:BC:126:GLU:HG2	2.30	0.61
1:BE:272:TYR:CE2	1:BM:55:ARG:CD	2.83	0.61
1:BQ:272:TYR:CE2	1:CL:55:ARG:HD3	2.35	0.61
1:CH:74:ASN:CB	1:CH:126:GLU:HG2	2.30	0.61
1:AE:189:PHE:CE1	1:AE:198:ARG:CG	2.83	0.61
1:AH:67:VAL:HG23	1:AH:135:LEU:HB2	1.81	0.61
1:AM:189:PHE:HE2	1:AM:249:LEU:CD2	2.13	0.61
1:AT:250:TRP:CE3	1:AT:272:TYR:CE1	2.88	0.61
1:CB:189:PHE:CE1	1:CB:198:ARG:CG	2.79	0.61
1:CI:284:ARG:HG2	1:CI:284:ARG:NH1	2.15	0.61
1:CJ:272:TYR:CD2	1:CQ:55:ARG:CZ	2.83	0.61
1:CM:79:ARG:HH11	1:CM:79:ARG:HG3	1.64	0.61
1:CN:55:ARG:HD3	1:CS:272:TYR:CE2	2.35	0.61
1:CR:80:ILE:O	1:CR:83:SER:C	2.38	0.61
1:AB:58:ALA:HB2	1:AB:102:GLY:HA3	1.83	0.61
1:AB:265:LEU:HD12	1:AB:266:PHE:N	2.12	0.61
1:BI:189:PHE:CE1	1:BI:198:ARG:CG	2.83	0.61
1:BQ:189:PHE:HE1	1:BQ:198:ARG:CG	2.13	0.61
1:BR:22:THR:OG1	1:BR:131:HIS:HD2	1.82	0.61
1:CD:454:ASN:HD22	1:CD:456:ALA:N	1.98	0.61
1:CH:55:ARG:CD	1:CK:272:TYR:CE2	2.84	0.61
1:AL:55:ARG:HD3	1:CQ:272:TYR:CD2	2.35	0.61
1:BD:189:PHE:CE1	1:BD:198:ARG:HG3	2.34	0.61
1:BQ:74:ASN:HB3	1:BQ:126:GLU:HG2	1.81	0.61
1:CG:14:CYS:H	1:CG:138:ASN:HD21	1.48	0.61
1:CI:38:GLU:HB3	1:CQ:35:VAL:HG23	1.83	0.61
1:CK:454:ASN:HD22	1:CK:456:ALA:N	1.98	0.61
1:CO:284:ARG:HG2	1:CO:284:ARG:NH1	2.15	0.61
1:CQ:250:TRP:CE3	1:CQ:272:TYR:CE1	2.89	0.61
1:CS:284:ARG:HH11	1:CS:284:ARG:HG2	1.63	0.61
1:AF:74:ASN:CB	1:AF:126:GLU:HG2	2.30	0.61
1:AN:288:HIS:HD2	1:AN:337:ASP:OD2	1.84	0.61
1:BQ:272:TYR:CD2	1:CL:55:ARG:HD3	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CI:189:PHE:HE2	1:CI:249:LEU:CD2	2.12	0.61
1:CP:284:ARG:HH11	1:CP:284:ARG:HG2	1.66	0.61
1:BD:36:GLN:NE2	1:BD:156:LEU:H	1.98	0.61
1:BJ:55:ARG:HD3	1:CL:272:TYR:CD2	2.35	0.61
1:CI:376:THR:O	1:CI:376:THR:CG2	2.48	0.61
1:CR:284:ARG:HH11	1:CR:284:ARG:HG2	1.64	0.61
1:AR:79:ARG:HH11	1:AR:79:ARG:HG3	1.64	0.61
1:AS:284:ARG:HG2	1:AS:284:ARG:NH1	2.15	0.61
1:BN:191:LEU:H	1:BN:191:LEU:CD2	2.10	0.61
1:BP:454:ASN:HD22	1:BP:456:ALA:N	1.99	0.61
1:CJ:189:PHE:CE1	1:CJ:198:ARG:CG	2.80	0.61
1:CP:36:GLN:NE2	1:CP:156:LEU:H	1.98	0.61
1:CQ:74:ASN:CB	1:CQ:126:GLU:HG2	2.30	0.61
1:AA:250:TRP:CZ3	1:AA:272:TYR:HE1	2.17	0.61
1:AF:189:PHE:CE1	1:AF:198:ARG:CG	2.82	0.61
1:AG:79:ARG:HG3	1:AG:79:ARG:NH1	2.10	0.61
1:AH:189:PHE:CE1	1:AH:198:ARG:CG	2.81	0.61
1:CD:189:PHE:CE1	1:CD:198:ARG:HG3	2.36	0.61
1:CI:14:CYS:H	1:CI:138:ASN:HD21	1.47	0.61
1:CK:284:ARG:HG2	1:CK:284:ARG:NH1	2.15	0.61
1:CN:284:ARG:HG2	1:CN:284:ARG:NH1	2.15	0.61
1:AB:250:TRP:CE3	1:AB:272:TYR:CE1	2.89	0.61
1:AC:36:GLN:NE2	1:AC:156:LEU:H	1.98	0.61
1:AI:55:ARG:CD	1:AR:272:TYR:CD2	2.83	0.61
1:AL:55:ARG:CD	1:CQ:272:TYR:CE2	2.83	0.61
1:AO:67:VAL:HG23	1:AO:135:LEU:HB2	1.83	0.61
1:AQ:250:TRP:CZ3	1:AQ:272:TYR:HE1	2.17	0.61
1:BA:288:HIS:HD2	1:BA:337:ASP:OD2	1.83	0.61
1:BE:74:ASN:CB	1:BE:126:GLU:HG2	2.30	0.61
1:BH:398:GLY:HA3	1:BH:494:PHE:CD2	2.36	0.61
1:BK:14:CYS:H	1:BK:138:ASN:HD21	1.49	0.61
1:BN:16:ALA:O	1:BN:17:ASN:HB2	2.01	0.61
1:BR:74:ASN:CB	1:BR:126:GLU:HG2	2.31	0.61
1:BS:250:TRP:CZ3	1:BS:272:TYR:HE1	2.19	0.61
1:CF:189:PHE:CE1	1:CF:198:ARG:CG	2.79	0.61
1:CJ:74:ASN:CB	1:CJ:126:GLU:HG2	2.31	0.61
1:CR:77:THR:O	1:CR:80:ILE:HG12	1.99	0.61
1:AE:55:ARG:CZ	1:CP:272:TYR:CD2	2.84	0.61
1:AE:284:ARG:HH11	1:AE:284:ARG:HG2	1.66	0.61
1:AG:261:ASP:O	1:AG:264:GLU:HB3	2.01	0.61
1:AI:189:PHE:HE2	1:AI:249:LEU:CD2	2.14	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:203:THR:HB	1:AJ:300:GLN:HG3	1.82	0.61
1:AN:189:PHE:CE1	1:AN:198:ARG:CG	2.79	0.61
1:AR:284:ARG:HG2	1:AR:284:ARG:NH1	2.16	0.61
1:BA:36:GLN:NE2	1:BA:156:LEU:H	1.99	0.61
1:BG:189:PHE:HE2	1:BG:249:LEU:CD2	2.14	0.61
1:BI:272:TYR:HE2	1:BO:55:ARG:CD	2.12	0.61
1:BO:74:ASN:CB	1:BO:126:GLU:HG2	2.31	0.61
1:CH:284:ARG:HG2	1:CH:284:ARG:NH1	2.16	0.61
1:CM:74:ASN:CB	1:CM:126:GLU:HG2	2.31	0.61
1:CM:284:ARG:HG2	1:CM:284:ARG:NH1	2.15	0.61
1:CS:191:LEU:H	1:CS:191:LEU:CD2	2.10	0.61
1:BA:284:ARG:HG2	1:BA:284:ARG:NH1	2.15	0.60
1:BI:55:ARG:NE	1:BR:272:TYR:HE2	1.89	0.60
1:CE:189:PHE:HE2	1:CE:249:LEU:CD2	2.13	0.60
1:CF:74:ASN:CB	1:CF:126:GLU:HG2	2.31	0.60
1:AA:189:PHE:CE1	1:AA:198:ARG:HG3	2.33	0.60
1:AC:284:ARG:HG2	1:AC:284:ARG:NH1	2.13	0.60
1:AD:74:ASN:CB	1:AD:126:GLU:HG2	2.31	0.60
1:AF:454:ASN:HD22	1:AF:456:ALA:N	1.99	0.60
1:CA:189:PHE:CE1	1:CA:198:ARG:HG3	2.34	0.60
1:CR:76:ILE:O	1:CR:80:ILE:HG12	2.02	0.60
1:AA:55:ARG:CD	1:CC:272:TYR:CE2	2.85	0.60
1:AH:55:ARG:CZ	1:AK:272:TYR:CE2	2.84	0.60
1:AO:294:LEU:HD11	1:AO:299:SER:HA	1.84	0.60
1:BE:250:TRP:CZ3	1:BE:272:TYR:HE1	2.18	0.60
1:BL:250:TRP:CZ3	1:BL:272:TYR:HE1	2.20	0.60
1:BO:16:ALA:O	1:BO:17:ASN:HB2	2.00	0.60
1:CI:272:TYR:CE2	1:CO:55:ARG:CD	2.84	0.60
1:AA:189:PHE:HE1	1:AA:198:ARG:CG	2.13	0.60
1:AE:74:ASN:CB	1:AE:126:GLU:HG2	2.31	0.60
1:AP:189:PHE:HE1	1:AP:198:ARG:HG3	1.67	0.60
1:AT:74:ASN:CB	1:AT:126:GLU:HG2	2.31	0.60
1:BF:454:ASN:HD22	1:BF:456:ALA:N	2.00	0.60
1:BH:55:ARG:CD	1:BK:272:TYR:CE2	2.85	0.60
1:BQ:74:ASN:ND2	1:BQ:77:THR:OG1	2.34	0.60
1:BT:36:GLN:NE2	1:BT:156:LEU:H	1.99	0.60
1:CB:284:ARG:HG2	1:CB:284:ARG:NH1	2.16	0.60
1:CN:55:ARG:CD	1:CS:272:TYR:HE2	2.13	0.60
1:CN:55:ARG:HD3	1:CS:272:TYR:CD2	2.36	0.60
1:CQ:189:PHE:CE1	1:CQ:198:ARG:HG3	2.37	0.60
1:AA:454:ASN:HD22	1:AA:456:ALA:N	1.99	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:203:THR:HB	1:AE:300:GLN:HG3	1.83	0.60
1:AH:74:ASN:ND2	1:AH:77:THR:OG1	2.34	0.60
1:AQ:74:ASN:CB	1:AQ:126:GLU:HG2	2.31	0.60
1:AS:191:LEU:H	1:AS:191:LEU:CD2	2.12	0.60
1:BF:189:PHE:CE1	1:BF:198:ARG:HG3	2.35	0.60
1:BM:250:TRP:CZ3	1:BM:272:TYR:HE1	2.17	0.60
1:BR:284:ARG:HG2	1:BR:284:ARG:NH1	2.16	0.60
1:AB:189:PHE:HE2	1:AB:249:LEU:CD2	2.14	0.60
1:AB:284:ARG:HG2	1:AB:284:ARG:NH1	2.13	0.60
1:AE:55:ARG:HD3	1:CP:272:TYR:CE2	2.36	0.60
1:AG:74:ASN:CB	1:AG:126:GLU:HG2	2.32	0.60
1:BJ:79:ARG:HG3	1:BJ:79:ARG:NH1	2.13	0.60
1:CE:272:TYR:CE2	1:CM:55:ARG:HD3	2.36	0.60
1:CE:284:ARG:HH11	1:CE:284:ARG:HG2	1.66	0.60
1:CJ:191:LEU:H	1:CJ:191:LEU:CD2	2.10	0.60
1:CR:86:PRO:HG2	1:CR:87:VAL:N	2.17	0.60
1:CR:189:PHE:HE2	1:CR:249:LEU:CD2	2.15	0.60
1:AE:189:PHE:HE2	1:AE:249:LEU:CD2	2.14	0.60
1:AH:189:PHE:HE2	1:AH:249:LEU:CD2	2.15	0.60
1:AH:398:GLY:HA3	1:AH:494:PHE:CD2	2.37	0.60
1:AI:272:TYR:CE2	1:AO:55:ARG:CZ	2.84	0.60
1:AJ:189:PHE:HE2	1:AJ:249:LEU:CD2	2.15	0.60
1:BD:272:TYR:CE2	1:BS:55:ARG:HD3	2.36	0.60
1:BG:284:ARG:HG2	1:BG:284:ARG:NH1	2.15	0.60
1:BL:189:PHE:HE1	1:BL:198:ARG:CG	2.14	0.60
1:CA:284:ARG:HG2	1:CA:284:ARG:NH1	2.15	0.60
1:CR:14:CYS:H	1:CR:138:ASN:HD21	1.50	0.60
1:AT:55:ARG:HD3	1:BA:272:TYR:CE2	2.37	0.60
1:BQ:67:VAL:HG23	1:BQ:135:LEU:HB2	1.84	0.60
1:CE:74:ASN:ND2	1:CE:77:THR:OG1	2.35	0.60
1:AC:454:ASN:HD22	1:AC:456:ALA:N	2.00	0.60
1:AJ:272:TYR:HE2	1:AQ:55:ARG:NE	2.00	0.60
1:BF:272:TYR:CE2	1:CK:55:ARG:HD3	2.36	0.60
1:BH:15:GLN:HA	1:BH:15:GLN:NE2	2.15	0.60
1:BO:272:TYR:CE2	1:BR:55:ARG:CZ	2.85	0.60
1:CD:74:ASN:CB	1:CD:126:GLU:HG2	2.32	0.60
1:CE:74:ASN:CB	1:CE:126:GLU:HG2	2.32	0.60
1:CL:74:ASN:CB	1:CL:126:GLU:HG2	2.32	0.60
1:AB:55:ARG:CD	1:BB:272:TYR:CE2	2.85	0.59
1:AE:55:ARG:CZ	1:CP:272:TYR:CE2	2.85	0.59
1:AH:284:ARG:HG2	1:AH:284:ARG:NH1	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:284:ARG:HG2	1:AP:284:ARG:NH1	2.17	0.59
1:BA:189:PHE:HE2	1:BA:249:LEU:HD21	1.67	0.59
1:BC:284:ARG:HG2	1:BC:284:ARG:NH1	2.16	0.59
1:BJ:189:PHE:HE2	1:BJ:249:LEU:CD2	2.14	0.59
1:BM:239:ILE:HG12	1:BM:326:ILE:CD1	2.32	0.59
1:BM:250:TRP:HZ3	1:BM:272:TYR:CE1	2.20	0.59
1:BO:398:GLY:HA3	1:BO:494:PHE:CD2	2.37	0.59
1:BP:55:ARG:CD	1:CM:272:TYR:HE2	2.15	0.59
1:BR:16:ALA:O	1:BR:17:ASN:HB2	2.02	0.59
1:CI:144:ALA:HB3	1:CR:191:LEU:O	2.02	0.59
1:CM:454:ASN:HD22	1:CM:456:ALA:N	1.99	0.59
1:CR:189:PHE:CE1	1:CR:198:ARG:CG	2.78	0.59
1:CS:14:CYS:H	1:CS:138:ASN:HD21	1.49	0.59
1:AT:250:TRP:HZ3	1:AT:272:TYR:CE1	2.20	0.59
1:BT:55:ARG:CZ	1:CA:272:TYR:CE2	2.85	0.59
1:BT:250:TRP:CE3	1:BT:272:TYR:CE1	2.90	0.59
1:CT:74:ASN:CB	1:CT:126:GLU:HG2	2.31	0.59
1:AG:79:ARG:HH11	1:AG:79:ARG:CG	2.13	0.59
1:AG:250:TRP:CZ3	1:AG:272:TYR:CE1	2.89	0.59
1:AS:74:ASN:CB	1:AS:126:GLU:HG2	2.31	0.59
1:BN:55:ARG:HD3	1:BS:272:TYR:CE2	2.37	0.59
1:BR:189:PHE:CE1	1:BR:198:ARG:CG	2.84	0.59
1:AH:14:CYS:H	1:AH:138:ASN:HD21	1.50	0.59
1:AJ:74:ASN:CB	1:AJ:126:GLU:HG2	2.32	0.59
1:BF:189:PHE:CE1	1:BF:198:ARG:CG	2.81	0.59
1:BH:189:PHE:HE2	1:BH:249:LEU:CD2	2.16	0.59
1:CG:36:GLN:NE2	1:CG:156:LEU:H	1.99	0.59
1:AA:284:ARG:HG2	1:AA:284:ARG:NH1	2.15	0.59
1:AI:189:PHE:CE1	1:AI:198:ARG:CG	2.79	0.59
1:AM:454:ASN:HD22	1:AM:456:ALA:N	1.97	0.59
1:BD:272:TYR:CD2	1:BS:55:ARG:HD3	2.38	0.59
1:BG:272:TYR:CE2	1:CG:55:ARG:CZ	2.86	0.59
1:BH:74:ASN:CB	1:BH:126:GLU:HG2	2.31	0.59
1:CF:250:TRP:CE3	1:CF:272:TYR:CE1	2.91	0.59
1:CO:74:ASN:CB	1:CO:126:GLU:HG2	2.31	0.59
1:CS:74:ASN:CB	1:CS:126:GLU:HG2	2.32	0.59
1:AO:162:PHE:CD2	1:AO:163:LEU:HD13	2.38	0.59
1:AR:250:TRP:CE3	1:AR:272:TYR:CE1	2.91	0.59
1:AB:256:ASN:ND2	1:AB:256:ASN:C	2.54	0.59
1:AG:272:TYR:C	1:AG:273:VAL:CG2	2.71	0.59
1:BI:284:ARG:HG2	1:BI:284:ARG:NH1	2.15	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BK:189:PHE:HE1	1:BK:198:ARG:CG	2.15	0.59
1:BN:189:PHE:HE2	1:BN:249:LEU:CD2	2.16	0.59
1:CJ:284:ARG:HH11	1:CJ:284:ARG:HG2	1.66	0.59
1:CP:79:ARG:HH11	1:CP:79:ARG:CG	2.16	0.59
1:CS:36:GLN:NE2	1:CS:156:LEU:H	2.01	0.59
1:AN:454:ASN:HD22	1:AN:456:ALA:N	2.00	0.59
1:AP:272:TYR:HD2	1:BE:55:ARG:HD3	1.64	0.59
1:BA:189:PHE:HE2	1:BA:249:LEU:CD2	2.16	0.59
1:BK:74:ASN:CB	1:BK:126:GLU:HG2	2.32	0.59
1:AG:189:PHE:CE1	1:AG:198:ARG:CG	2.81	0.59
1:BF:74:ASN:CB	1:BF:126:GLU:HG2	2.33	0.59
1:BI:74:ASN:CB	1:BI:126:GLU:HG2	2.32	0.59
1:BS:189:PHE:HE1	1:BS:198:ARG:CG	2.15	0.59
1:CF:189:PHE:HE2	1:CF:249:LEU:CD2	2.15	0.59
1:CG:454:ASN:HD22	1:CG:456:ALA:N	2.01	0.59
1:CK:74:ASN:CB	1:CK:126:GLU:HG2	2.33	0.59
1:AA:74:ASN:ND2	1:AA:77:THR:OG1	2.36	0.59
1:AC:250:TRP:CE3	1:AC:272:TYR:CE1	2.91	0.59
1:AG:14:CYS:H	1:AG:138:ASN:HD21	1.49	0.59
1:AI:74:ASN:CB	1:AI:126:GLU:HG2	2.33	0.59
1:BA:454:ASN:HD22	1:BA:456:ALA:N	2.01	0.59
1:BK:288:HIS:HD2	1:BK:337:ASP:OD2	1.86	0.59
1:BT:189:PHE:CE1	1:BT:198:ARG:HG3	2.36	0.59
1:CH:79:ARG:HG3	1:CH:79:ARG:NH1	2.17	0.59
1:AB:16:ALA:O	1:AB:17:ASN:HB2	2.02	0.58
1:AC:74:ASN:CB	1:AC:126:GLU:HG2	2.32	0.58
1:AD:189:PHE:HE1	1:AD:198:ARG:CG	2.15	0.58
1:AG:264:GLU:O	1:AG:267:LYS:N	2.30	0.58
1:AI:272:TYR:CE2	1:AO:55:ARG:HD3	2.36	0.58
1:AK:55:ARG:HD3	1:CF:272:TYR:CE2	2.37	0.58
1:AP:79:ARG:HH11	1:AP:79:ARG:HG3	1.66	0.58
1:BP:189:PHE:HE1	1:BP:198:ARG:CG	2.16	0.58
1:CC:74:ASN:CB	1:CC:126:GLU:HG2	2.32	0.58
1:CI:55:ARG:NE	1:CR:272:TYR:CE2	2.71	0.58
1:CJ:272:TYR:CE2	1:CQ:55:ARG:HD3	2.38	0.58
1:CJ:454:ASN:HD22	1:CJ:456:ALA:N	2.00	0.58
1:AE:454:ASN:HD22	1:AE:456:ALA:N	2.01	0.58
1:AP:58:ALA:HB2	1:AP:102:GLY:HA3	1.84	0.58
1:AQ:284:ARG:HH11	1:AQ:284:ARG:HG2	1.68	0.58
1:AT:189:PHE:HE1	1:AT:198:ARG:CG	2.16	0.58
1:BE:284:ARG:HG2	1:BE:284:ARG:NH1	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BH:189:PHE:CE1	1:BH:198:ARG:CG	2.80	0.58
1:BP:284:ARG:HG2	1:BP:284:ARG:NH1	2.17	0.58
1:BS:454:ASN:HD22	1:BS:456:ALA:N	2.01	0.58
1:CA:43:ALA:HB1	1:CA:158:GLU:HA	1.86	0.58
1:CN:250:TRP:CE3	1:CN:272:TYR:CE1	2.91	0.58
1:CS:288:HIS:HD2	1:CS:337:ASP:OD2	1.86	0.58
1:AG:38:GLU:HB2	1:CF:35:VAL:HG22	1.84	0.58
1:AG:272:TYR:N	1:AG:272:TYR:HD1	2.00	0.58
1:AT:74:ASN:ND2	1:AT:77:THR:OG1	2.35	0.58
1:BA:189:PHE:CE1	1:BA:198:ARG:CG	2.86	0.58
1:CO:272:TYR:CD2	1:CR:55:ARG:CZ	2.87	0.58
1:AD:272:TYR:CE2	1:AS:55:ARG:HD3	2.38	0.58
1:AF:203:THR:HB	1:AF:300:GLN:HG3	1.85	0.58
1:BC:14:CYS:H	1:BC:138:ASN:HD21	1.51	0.58
1:BC:454:ASN:HD22	1:BC:456:ALA:N	2.00	0.58
1:BT:454:ASN:HD22	1:BT:456:ALA:N	2.01	0.58
1:AB:262:TRP:N	1:AB:262:TRP:CD1	2.70	0.58
1:AC:189:PHE:CE1	1:AC:198:ARG:HG3	2.39	0.58
1:AO:239:ILE:HG12	1:AO:326:ILE:CD1	2.33	0.58
1:BD:14:CYS:H	1:BD:138:ASN:HD21	1.51	0.58
1:CB:189:PHE:HE2	1:CB:249:LEU:CD2	2.17	0.58
1:CG:284:ARG:HG2	1:CG:284:ARG:NH1	2.17	0.58
1:CN:74:ASN:CB	1:CN:126:GLU:HG2	2.32	0.58
1:AB:288:HIS:HD2	1:AB:337:ASP:OD2	1.86	0.58
1:AI:284:ARG:HG2	1:AI:284:ARG:NH1	2.15	0.58
1:AO:454:ASN:HD22	1:AO:456:ALA:N	2.00	0.58
1:BG:74:ASN:CB	1:BG:126:GLU:HG2	2.31	0.58
1:BP:55:ARG:CD	1:CM:272:TYR:CE2	2.87	0.58
1:BQ:43:ALA:HB1	1:BQ:158:GLU:HA	1.86	0.58
1:CQ:250:TRP:HZ3	1:CQ:272:TYR:CE1	2.19	0.58
1:AA:67:VAL:HG23	1:AA:135:LEU:HB2	1.85	0.58
1:AL:55:ARG:CD	1:CQ:272:TYR:HE2	2.17	0.58
1:AL:454:ASN:HD22	1:AL:456:ALA:N	2.01	0.58
1:BB:74:ASN:CB	1:BB:126:GLU:HG2	2.34	0.58
1:BD:284:ARG:HG2	1:BD:284:ARG:NH1	2.18	0.58
1:BG:11:PRO:HG2	1:BG:18:ARG:HD2	1.85	0.58
1:BJ:79:ARG:HH11	1:BJ:79:ARG:CG	2.10	0.58
1:BN:74:ASN:CB	1:BN:126:GLU:HG2	2.34	0.58
1:BP:272:TYR:CD2	1:CE:55:ARG:CZ	2.87	0.58
1:BR:454:ASN:HD22	1:BR:456:ALA:N	2.01	0.58
1:CJ:263:ASN:HD22	1:CQ:5:ARG:HD3	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:14:CYS:H	1:AJ:138:ASN:HD21	1.51	0.58
1:AL:74:ASN:CB	1:AL:126:GLU:HG2	2.32	0.58
1:AN:284:ARG:HG2	1:AN:284:ARG:NH1	2.18	0.58
1:AQ:189:PHE:HE2	1:AQ:249:LEU:CD2	2.17	0.58
1:BM:36:GLN:NE2	1:BM:156:LEU:H	2.02	0.58
1:BM:284:ARG:HG2	1:BM:284:ARG:NH1	2.15	0.58
1:AN:239:ILE:HG12	1:AN:326:ILE:CD1	2.34	0.58
1:BF:189:PHE:HE2	1:BF:249:LEU:CD2	2.17	0.58
1:BH:55:ARG:CD	1:BK:272:TYR:HE2	2.17	0.58
1:BJ:74:ASN:CB	1:BJ:126:GLU:HG2	2.33	0.58
1:BN:67:VAL:HG23	1:BN:135:LEU:HB2	1.86	0.58
1:BS:284:ARG:HG2	1:BS:284:ARG:NH1	2.19	0.58
1:BT:284:ARG:HG2	1:BT:284:ARG:NH1	2.18	0.58
1:CB:454:ASN:HD22	1:CB:456:ALA:N	2.01	0.58
1:CH:43:ALA:HB1	1:CH:158:GLU:HA	1.86	0.58
1:CL:9:TYR:HE1	1:CL:147:GLN:HE21	1.50	0.58
1:CO:239:ILE:HG12	1:CO:326:ILE:CD1	2.34	0.58
1:AA:398:GLY:HA3	1:AA:494:PHE:CD2	2.38	0.58
1:AD:189:PHE:HE2	1:AD:249:LEU:CD2	2.17	0.58
1:AJ:272:TYR:CE2	1:AQ:55:ARG:HD3	2.39	0.58
1:AP:74:ASN:CB	1:AP:126:GLU:HG2	2.34	0.58
1:BN:55:ARG:HD3	1:BS:272:TYR:CD2	2.39	0.58
1:BP:454:ASN:ND2	1:BP:456:ALA:H	2.00	0.58
1:CM:250:TRP:CE3	1:CM:272:TYR:CE1	2.91	0.58
1:CR:36:GLN:NE2	1:CR:156:LEU:H	2.02	0.58
1:AG:250:TRP:CE3	1:AG:272:TYR:HE1	2.22	0.57
1:AN:55:ARG:HD3	1:AS:272:TYR:CE2	2.38	0.57
1:AP:74:ASN:ND2	1:AP:77:THR:OG1	2.37	0.57
1:AQ:272:TYR:CE2	1:BL:55:ARG:CD	2.87	0.57
1:BC:239:ILE:HG12	1:BC:326:ILE:CD1	2.33	0.57
1:BH:79:ARG:HG3	1:BH:79:ARG:HH11	1.67	0.57
1:BL:284:ARG:HG2	1:BL:284:ARG:NH1	2.19	0.57
1:CF:284:ARG:HG2	1:CF:284:ARG:NH1	2.19	0.57
1:CQ:284:ARG:HG2	1:CQ:284:ARG:NH1	2.17	0.57
1:CS:454:ASN:ND2	1:CS:456:ALA:H	1.98	0.57
1:AA:189:PHE:CE1	1:AA:198:ARG:CG	2.87	0.57
1:AK:284:ARG:HG2	1:AK:284:ARG:NH1	2.17	0.57
1:AP:189:PHE:CE1	1:AP:198:ARG:HG3	2.38	0.57
1:AR:74:ASN:CB	1:AR:126:GLU:HG2	2.34	0.57
1:BN:284:ARG:HG2	1:BN:284:ARG:NH1	2.17	0.57
1:CF:18:ARG:HG3	1:CF:19:TYR:N	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CT:454:ASN:HD22	1:CT:456:ALA:N	2.01	0.57
1:AT:189:PHE:CE1	1:AT:198:ARG:CG	2.87	0.57
1:BE:272:TYR:CE2	1:BM:55:ARG:HD3	2.39	0.57
1:BF:55:ARG:CD	1:CH:272:TYR:HE2	2.16	0.57
1:BJ:284:ARG:HG2	1:BJ:284:ARG:NH1	2.18	0.57
1:BN:189:PHE:HE1	1:BN:198:ARG:HG2	1.68	0.57
1:CI:454:ASN:HD22	1:CI:456:ALA:N	2.02	0.57
1:AA:74:ASN:CB	1:AA:126:GLU:HG2	2.34	0.57
1:AB:189:PHE:CE1	1:AB:198:ARG:CG	2.81	0.57
1:AF:284:ARG:HG2	1:AF:284:ARG:NH1	2.17	0.57
1:AH:11:PRO:HG2	1:AH:18:ARG:HD2	1.87	0.57
1:AN:250:TRP:CE3	1:AN:272:TYR:CE1	2.92	0.57
1:BG:16:ALA:O	1:BG:17:ASN:HB2	2.03	0.57
1:BH:284:ARG:HG2	1:BH:284:ARG:NH1	2.16	0.57
1:BP:189:PHE:CE1	1:BP:198:ARG:CG	2.88	0.57
1:CF:36:GLN:NE2	1:CF:156:LEU:H	2.03	0.57
1:CG:250:TRP:CE3	1:CG:272:TYR:CE1	2.92	0.57
1:CH:288:HIS:HD2	1:CH:337:ASP:OD2	1.88	0.57
1:CQ:454:ASN:ND2	1:CQ:456:ALA:H	2.00	0.57
1:AL:284:ARG:HG2	1:AL:284:ARG:NH1	2.16	0.57
1:BQ:288:HIS:HD2	1:BQ:337:ASP:OD2	1.87	0.57
1:AT:454:ASN:HD22	1:AT:456:ALA:N	2.02	0.57
1:BI:454:ASN:ND2	1:BI:456:ALA:H	2.01	0.57
1:BN:454:ASN:HD22	1:BN:456:ALA:N	2.02	0.57
1:BO:272:TYR:CE2	1:BR:55:ARG:HD3	2.40	0.57
1:BR:79:ARG:HH11	1:BR:79:ARG:CG	2.16	0.57
1:BS:14:CYS:H	1:BS:138:ASN:HD21	1.52	0.57
1:CF:454:ASN:ND2	1:CF:456:ALA:H	2.00	0.57
1:CI:79:ARG:HH11	1:CI:79:ARG:HG3	1.68	0.57
1:CL:189:PHE:CE1	1:CL:198:ARG:CG	2.88	0.57
1:AF:14:CYS:H	1:AF:138:ASN:HD21	1.52	0.57
1:AM:272:TYR:CE2	1:CP:55:ARG:HD3	2.40	0.57
1:AO:189:PHE:CE1	1:AO:198:ARG:HG3	2.40	0.57
1:BE:454:ASN:HD22	1:BE:456:ALA:N	2.02	0.57
1:BK:284:ARG:HG2	1:BK:284:ARG:NH1	2.15	0.57
1:BL:189:PHE:CE1	1:BL:198:ARG:CG	2.87	0.57
1:BP:36:GLN:NE2	1:BP:156:LEU:H	2.02	0.57
1:CK:9:TYR:HE1	1:CK:147:GLN:HE21	1.53	0.57
1:CR:189:PHE:HE1	1:CR:198:ARG:HG2	1.67	0.57
1:AB:272:TYR:HE2	1:CB:55:ARG:CD	2.18	0.57
1:AH:75:ARG:NH2	1:AH:391:ALA:O	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:398:GLY:HA3	1:AM:494:PHE:CD2	2.39	0.57
1:AP:454:ASN:HD22	1:AP:456:ALA:N	2.02	0.57
1:AT:288:HIS:HD2	1:AT:337:ASP:OD2	1.88	0.57
1:BB:250:TRP:CE3	1:BB:272:TYR:CE1	2.92	0.57
1:BD:398:GLY:HA3	1:BD:494:PHE:CD2	2.40	0.57
1:BJ:272:TYR:CE2	1:BQ:55:ARG:CZ	2.88	0.57
1:CC:250:TRP:CE3	1:CC:272:TYR:CD1	2.92	0.57
1:CM:36:GLN:NE2	1:CM:156:LEU:H	2.02	0.57
1:CT:250:TRP:HZ3	1:CT:272:TYR:CE1	2.22	0.57
1:AH:288:HIS:HD2	1:AH:337:ASP:OD2	1.88	0.57
1:AM:272:TYR:CD2	1:CP:55:ARG:HD3	2.40	0.57
1:BB:250:TRP:HZ3	1:BB:272:TYR:CE1	2.23	0.57
1:BE:74:ASN:ND2	1:BE:77:THR:OG1	2.38	0.57
1:BJ:55:ARG:CD	1:CL:272:TYR:HE2	2.17	0.57
1:BM:284:ARG:CG	1:BM:284:ARG:NH1	2.67	0.57
1:BS:79:ARG:CG	1:BS:79:ARG:NH1	2.66	0.57
1:CD:55:ARG:HD3	1:CN:272:TYR:CE2	2.40	0.57
1:CJ:284:ARG:HG2	1:CJ:284:ARG:NH1	2.20	0.57
1:AE:284:ARG:HG2	1:AE:284:ARG:NH1	2.20	0.57
1:AG:272:TYR:N	1:AG:272:TYR:CD1	2.67	0.57
1:AK:454:ASN:HD22	1:AK:456:ALA:N	2.03	0.57
1:AP:55:ARG:NE	1:BM:272:TYR:CE2	2.73	0.57
1:AQ:189:PHE:CE1	1:AQ:198:ARG:HG3	2.39	0.57
1:BA:232:THR:HB	1:BA:334:VAL:HG23	1.87	0.57
1:BC:79:ARG:HH11	1:BC:79:ARG:HG3	1.70	0.57
1:BO:189:PHE:CE1	1:BO:198:ARG:HG3	2.39	0.57
1:AA:189:PHE:HE2	1:AA:249:LEU:CD2	2.18	0.56
1:AO:290:THR:O	1:AO:290:THR:CG2	2.39	0.56
1:AS:398:GLY:HA3	1:AS:494:PHE:CD2	2.40	0.56
1:BM:189:PHE:CE1	1:BM:198:ARG:CG	2.82	0.56
1:BM:189:PHE:CE1	1:BM:198:ARG:HG3	2.38	0.56
1:CP:284:ARG:HG2	1:CP:284:ARG:NH1	2.20	0.56
1:CS:284:ARG:HG2	1:CS:284:ARG:NH1	2.19	0.56
1:AB:55:ARG:HD3	1:BB:272:TYR:CD2	2.40	0.56
1:AH:16:ALA:O	1:AH:17:ASN:HB2	2.04	0.56
1:AJ:250:TRP:CZ3	1:AJ:272:TYR:HE1	2.23	0.56
1:BG:272:TYR:CD2	1:CG:55:ARG:CZ	2.88	0.56
1:BS:189:PHE:CE1	1:BS:198:ARG:CG	2.88	0.56
1:CM:14:CYS:H	1:CM:138:ASN:HD21	1.51	0.56
1:CM:239:ILE:HG12	1:CM:326:ILE:CD1	2.35	0.56
1:CS:250:TRP:CE3	1:CS:272:TYR:CE1	2.93	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CS:398:GLY:HA3	1:CS:494:PHE:CD2	2.40	0.56
1:AB:55:ARG:CD	1:BB:272:TYR:HE2	2.19	0.56
1:AH:250:TRP:CE3	1:AH:272:TYR:CE1	2.93	0.56
1:AJ:454:ASN:HD22	1:AJ:456:ALA:N	2.03	0.56
1:AP:250:TRP:CE3	1:AP:272:TYR:CE1	2.93	0.56
1:BB:454:ASN:ND2	1:BB:456:ALA:H	2.00	0.56
1:BM:398:GLY:HA3	1:BM:494:PHE:CD2	2.40	0.56
1:BN:189:PHE:CE1	1:BN:198:ARG:HG2	2.41	0.56
1:BP:74:ASN:CB	1:BP:126:GLU:HG2	2.35	0.56
1:BQ:74:ASN:CB	1:BQ:126:GLU:HG2	2.35	0.56
1:CB:191:LEU:HD23	1:CB:191:LEU:N	2.18	0.56
1:CB:250:TRP:CE3	1:CB:272:TYR:CE1	2.93	0.56
1:CC:454:ASN:HD22	1:CC:456:ALA:N	2.02	0.56
1:CI:378:ARG:CG	1:CI:379:VAL:H	2.17	0.56
1:CJ:189:PHE:HE2	1:CJ:249:LEU:CD2	2.18	0.56
1:CK:74:ASN:ND2	1:CK:77:THR:OG1	2.38	0.56
1:CR:284:ARG:HG2	1:CR:284:ARG:NH1	2.20	0.56
1:AA:272:TYR:HE2	1:CT:55:ARG:CD	2.18	0.56
1:AI:442:GLN:HE21	1:AJ:412:PHE:HB2	1.70	0.56
1:AI:454:ASN:HD22	1:AI:456:ALA:N	2.03	0.56
1:AN:454:ASN:ND2	1:AN:456:ALA:H	2.03	0.56
1:BE:288:HIS:HD2	1:BE:337:ASP:OD2	1.89	0.56
1:BJ:250:TRP:HZ3	1:BJ:272:TYR:CE1	2.22	0.56
1:CN:250:TRP:HZ3	1:CN:272:TYR:CE1	2.23	0.56
1:CO:14:CYS:H	1:CO:138:ASN:HD21	1.53	0.56
1:CR:250:TRP:HZ3	1:CR:272:TYR:CE1	2.23	0.56
1:AD:189:PHE:CE1	1:AD:198:ARG:CG	2.89	0.56
1:AD:398:GLY:HA3	1:AD:494:PHE:CD2	2.40	0.56
1:AF:454:ASN:ND2	1:AF:456:ALA:H	2.01	0.56
1:AJ:79:ARG:HG3	1:AJ:79:ARG:NH1	2.21	0.56
1:AQ:67:VAL:HG23	1:AQ:135:LEU:HB2	1.88	0.56
1:AQ:442:GLN:HE21	1:AR:412:PHE:HB2	1.71	0.56
1:AS:454:ASN:HD22	1:AS:456:ALA:N	2.03	0.56
1:BE:189:PHE:HE2	1:BE:249:LEU:CD2	2.18	0.56
1:BF:79:ARG:HH11	1:BF:79:ARG:CG	2.18	0.56
1:BL:288:HIS:HD2	1:BL:337:ASP:OD2	1.89	0.56
1:BQ:189:PHE:CE1	1:BQ:198:ARG:CG	2.88	0.56
1:CE:454:ASN:HD22	1:CE:456:ALA:N	2.03	0.56
1:AM:288:HIS:HD2	1:AM:337:ASP:OD2	1.89	0.56
1:BA:250:TRP:CE3	1:BA:272:TYR:CE1	2.93	0.56
1:BH:55:ARG:HD3	1:BK:272:TYR:CD2	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BR:189:PHE:HE2	1:BR:249:LEU:CD2	2.18	0.56
1:BR:454:ASN:ND2	1:BR:456:ALA:H	2.03	0.56
1:BT:288:HIS:HD2	1:BT:337:ASP:OD2	1.89	0.56
1:CH:55:ARG:CD	1:CK:272:TYR:HE2	2.17	0.56
1:CJ:18:ARG:HD2	1:CJ:19:TYR:O	2.05	0.56
1:CM:75:ARG:NH2	1:CM:391:ALA:O	2.38	0.56
1:CR:74:ASN:CB	1:CR:126:GLU:HG2	2.35	0.56
1:AL:14:CYS:H	1:AL:138:ASN:ND2	2.03	0.56
1:BM:189:PHE:HE1	1:BM:198:ARG:HG2	1.70	0.56
1:BQ:14:CYS:H	1:BQ:138:ASN:HD21	1.53	0.56
1:BS:79:ARG:HG3	1:BS:79:ARG:NH1	2.10	0.56
1:BT:79:ARG:HG3	1:BT:79:ARG:NH1	2.21	0.56
1:CF:239:ILE:HG12	1:CF:326:ILE:CD1	2.35	0.56
1:CI:189:PHE:CE1	1:CI:198:ARG:CG	2.83	0.56
1:CO:36:GLN:NE2	1:CO:156:LEU:H	2.03	0.56
1:AH:43:ALA:HB1	1:AH:158:GLU:HA	1.88	0.56
1:AL:288:HIS:HD2	1:AL:337:ASP:OD2	1.89	0.56
1:BN:442:GLN:HE21	1:BO:412:PHE:HB2	1.71	0.56
1:CE:284:ARG:HG2	1:CE:284:ARG:NH1	2.21	0.56
1:CM:250:TRP:HZ3	1:CM:272:TYR:CE1	2.19	0.56
1:CN:454:ASN:HD22	1:CN:456:ALA:N	2.00	0.56
1:CT:189:PHE:HE2	1:CT:249:LEU:CD2	2.19	0.56
1:AE:250:TRP:CE3	1:AE:272:TYR:CE1	2.94	0.56
1:AN:14:CYS:H	1:AN:138:ASN:HD21	1.53	0.56
1:AP:14:CYS:H	1:AP:138:ASN:HD21	1.53	0.56
1:BP:79:ARG:HH11	1:BP:79:ARG:HG2	1.70	0.56
1:CI:272:TYR:CD2	1:CO:55:ARG:HD3	2.40	0.56
1:CR:250:TRP:CE3	1:CR:272:TYR:CE1	2.94	0.56
1:AG:288:HIS:HD2	1:AG:337:ASP:OD2	1.89	0.56
1:AK:191:LEU:HD23	1:AK:191:LEU:N	2.17	0.56
1:AM:74:ASN:ND2	1:AM:77:THR:OG1	2.39	0.56
1:AQ:288:HIS:HD2	1:AQ:337:ASP:OD2	1.89	0.56
1:BB:74:ASN:ND2	1:BB:77:THR:OG1	2.39	0.56
1:BF:74:ASN:ND2	1:BF:77:THR:OG1	2.38	0.56
1:BG:250:TRP:HZ3	1:BG:272:TYR:CE1	2.20	0.56
1:BH:250:TRP:HZ3	1:BH:272:TYR:CE1	2.22	0.56
1:BK:250:TRP:HZ3	1:BK:272:TYR:CE1	2.23	0.56
1:BK:398:GLY:HA3	1:BK:494:PHE:CD2	2.40	0.56
1:CH:454:ASN:HD22	1:CH:456:ALA:N	2.02	0.56
1:AB:191:LEU:HD23	1:AB:191:LEU:N	2.16	0.55
1:AD:67:VAL:HG23	1:AD:135:LEU:HB2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:55:ARG:NE	1:AK:272:TYR:CD2	2.74	0.55
1:AJ:284:ARG:HG2	1:AJ:284:ARG:NH1	2.22	0.55
1:AT:284:ARG:HG2	1:AT:284:ARG:NH1	2.16	0.55
1:BB:67:VAL:HG23	1:BB:135:LEU:HB2	1.88	0.55
1:BG:67:VAL:HG23	1:BG:135:LEU:HB2	1.88	0.55
1:BT:189:PHE:HE1	1:BT:198:ARG:CG	2.18	0.55
1:AI:144:ALA:HB3	1:AR:191:LEU:O	2.06	0.55
1:AP:55:ARG:CD	1:BM:272:TYR:CE2	2.90	0.55
1:BB:11:PRO:HG2	1:BB:18:ARG:HD2	1.88	0.55
1:BM:14:CYS:H	1:BM:138:ASN:HD21	1.52	0.55
1:BM:74:ASN:CB	1:BM:126:GLU:HG2	2.36	0.55
1:CH:55:ARG:HD3	1:CK:272:TYR:CD2	2.41	0.55
1:CI:272:TYR:HE2	1:CO:55:ARG:CD	2.18	0.55
1:CK:454:ASN:ND2	1:CK:456:ALA:H	2.01	0.55
1:CL:189:PHE:HE1	1:CL:198:ARG:CG	2.19	0.55
1:CQ:288:HIS:HD2	1:CQ:337:ASP:OD2	1.89	0.55
1:AC:272:TYR:HE2	1:BA:55:ARG:CD	2.19	0.55
1:AD:250:TRP:CE3	1:AD:272:TYR:CE1	2.95	0.55
1:AQ:454:ASN:HD22	1:AQ:456:ALA:N	2.04	0.55
1:BC:16:ALA:O	1:BC:17:ASN:HB2	2.06	0.55
1:BC:272:TYR:CE2	1:CA:55:ARG:HD3	2.42	0.55
1:BQ:189:PHE:HE2	1:BQ:249:LEU:HD21	1.71	0.55
1:BS:288:HIS:HD2	1:BS:337:ASP:OD2	1.89	0.55
1:CD:55:ARG:HD3	1:CN:272:TYR:HD2	1.70	0.55
1:CD:454:ASN:ND2	1:CD:456:ALA:H	2.02	0.55
1:CQ:189:PHE:HE2	1:CQ:249:LEU:CD2	2.20	0.55
1:AA:16:ALA:O	1:AA:17:ASN:HB2	2.07	0.55
1:AE:288:HIS:HD2	1:AE:337:ASP:OD2	1.90	0.55
1:AM:74:ASN:CB	1:AM:126:GLU:HG2	2.35	0.55
1:AR:10:ILE:HG21	1:AR:146:TRP:CZ2	2.41	0.55
1:AR:58:ALA:HB2	1:AR:102:GLY:HA3	1.88	0.55
1:AS:67:VAL:HG23	1:AS:135:LEU:HB2	1.88	0.55
1:BA:232:THR:HB	1:BA:334:VAL:CG2	2.37	0.55
1:BJ:67:VAL:HG23	1:BJ:135:LEU:HB2	1.89	0.55
1:BK:189:PHE:HE2	1:BK:249:LEU:CD2	2.18	0.55
1:BP:75:ARG:NH2	1:BP:391:ALA:O	2.39	0.55
1:CH:11:PRO:HG2	1:CH:18:ARG:HD2	1.88	0.55
1:AA:272:TYR:HD2	1:CT:55:ARG:HD3	1.72	0.55
1:AJ:272:TYR:CE2	1:AQ:55:ARG:CZ	2.89	0.55
1:AQ:272:TYR:HE2	1:BL:55:ARG:CD	2.19	0.55
1:BL:250:TRP:HZ3	1:BL:272:TYR:CE1	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BM:67:VAL:HG23	1:BM:135:LEU:HB2	1.88	0.55
1:BQ:189:PHE:HE2	1:BQ:249:LEU:CD2	2.20	0.55
1:CA:454:ASN:HD22	1:CA:456:ALA:N	2.04	0.55
1:CP:288:HIS:HD2	1:CP:337:ASP:OD2	1.90	0.55
1:AI:74:ASN:ND2	1:AI:77:THR:OG1	2.39	0.55
1:BD:67:VAL:HG23	1:BD:135:LEU:HB2	1.88	0.55
1:BH:288:HIS:HD2	1:BH:337:ASP:OD2	1.90	0.55
1:BK:250:TRP:CE3	1:BK:272:TYR:CE1	2.94	0.55
1:BK:454:ASN:ND2	1:BK:456:ALA:H	2.02	0.55
1:CG:398:GLY:HA3	1:CG:494:PHE:CD2	2.41	0.55
1:CK:250:TRP:CE3	1:CK:272:TYR:CE1	2.94	0.55
1:CS:189:PHE:HE1	1:CS:198:ARG:CG	2.19	0.55
1:CS:239:ILE:HG12	1:CS:326:ILE:CD1	2.37	0.55
1:AI:272:TYR:HE2	1:AO:55:ARG:NE	1.92	0.55
1:BB:55:ARG:CZ	1:CB:272:TYR:CD2	2.90	0.55
1:BG:454:ASN:HD22	1:BG:456:ALA:N	2.04	0.55
1:BM:288:HIS:HD2	1:BM:337:ASP:OD2	1.90	0.55
1:BM:454:ASN:HD22	1:BM:456:ALA:N	2.00	0.55
1:CA:74:ASN:CB	1:CA:126:GLU:HG2	2.37	0.55
1:AA:191:LEU:HD23	1:AA:191:LEU:N	2.16	0.55
1:AC:398:GLY:HA3	1:AC:494:PHE:CD2	2.42	0.55
1:BF:55:ARG:HD3	1:CH:272:TYR:CE2	2.42	0.55
1:BK:189:PHE:CE1	1:BK:198:ARG:CG	2.89	0.55
1:CB:14:CYS:H	1:CB:138:ASN:HD21	1.54	0.55
1:CI:250:TRP:HZ3	1:CI:272:TYR:CE1	2.22	0.55
1:CQ:454:ASN:HD22	1:CQ:456:ALA:N	2.00	0.55
1:CR:67:VAL:HG23	1:CR:135:LEU:HB2	1.89	0.55
1:AB:14:CYS:H	1:AB:138:ASN:HD21	1.52	0.55
1:AH:272:TYR:CE2	1:CF:55:ARG:CZ	2.90	0.55
1:AQ:284:ARG:HG2	1:AQ:284:ARG:NH1	2.20	0.55
1:BA:74:ASN:ND2	1:BA:77:THR:OG1	2.40	0.55
1:BK:454:ASN:HD22	1:BK:456:ALA:N	1.99	0.55
1:CJ:79:ARG:HH11	1:CJ:79:ARG:HG3	1.72	0.55
1:CJ:454:ASN:ND2	1:CJ:456:ALA:H	2.04	0.55
1:CS:454:ASN:HD22	1:CS:456:ALA:N	1.98	0.55
1:BD:189:PHE:HE2	1:BD:249:LEU:CD2	2.20	0.55
1:BI:272:TYR:CD2	1:BO:55:ARG:HD3	2.41	0.55
1:BL:36:GLN:NE2	1:BL:156:LEU:H	2.05	0.55
1:BQ:398:GLY:HA3	1:BQ:494:PHE:CD2	2.41	0.55
1:CH:250:TRP:CE3	1:CH:272:TYR:CE1	2.93	0.55
1:CI:74:ASN:ND2	1:CI:77:THR:OG1	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CM:288:HIS:HD2	1:CM:337:ASP:OD2	1.90	0.55
1:CO:189:PHE:CE1	1:CO:198:ARG:CG	2.90	0.55
1:AH:454:ASN:HD22	1:AH:456:ALA:N	2.03	0.54
1:AQ:16:ALA:O	1:AQ:17:ASN:HB2	2.07	0.54
1:AR:288:HIS:HD2	1:AR:337:ASP:OD2	1.90	0.54
1:BD:74:ASN:CB	1:BD:126:GLU:HG2	2.36	0.54
1:BI:250:TRP:HZ3	1:BI:272:TYR:CE1	2.23	0.54
1:BI:454:ASN:HD22	1:BI:456:ALA:N	1.99	0.54
1:BJ:18:ARG:HD2	1:BJ:19:TYR:O	2.06	0.54
1:BS:189:PHE:HE2	1:BS:249:LEU:CD2	2.20	0.54
1:CE:288:HIS:HD2	1:CE:337:ASP:OD2	1.90	0.54
1:CH:67:VAL:HG23	1:CH:135:LEU:HB2	1.90	0.54
1:CS:189:PHE:CE1	1:CS:198:ARG:CG	2.90	0.54
1:AA:58:ALA:HB2	1:AA:102:GLY:HA3	1.89	0.54
1:AB:250:TRP:HZ3	1:AB:272:TYR:CE1	2.22	0.54
1:AB:454:ASN:HD22	1:AB:456:ALA:N	2.03	0.54
1:AF:405:GLN:NE2	1:AJ:437:HIS:CE1	2.76	0.54
1:AH:162:PHE:CD2	1:AH:163:LEU:HD13	2.43	0.54
1:AJ:272:TYR:CD2	1:AQ:55:ARG:CZ	2.90	0.54
1:AS:288:HIS:HD2	1:AS:337:ASP:OD2	1.91	0.54
1:BP:189:PHE:HE2	1:BP:249:LEU:CD2	2.20	0.54
1:BT:55:ARG:NE	1:CA:272:TYR:HE2	1.96	0.54
1:BT:189:PHE:HE2	1:BT:249:LEU:CD2	2.20	0.54
1:CG:74:ASN:CB	1:CG:126:GLU:HG2	2.37	0.54
1:CJ:250:TRP:HZ3	1:CJ:272:TYR:CE1	2.25	0.54
1:AB:272:TYR:CE2	1:CB:55:ARG:CD	2.90	0.54
1:AG:258:THR:O	1:AG:259:THR:C	2.40	0.54
1:AG:398:GLY:HA3	1:AG:494:PHE:CD2	2.43	0.54
1:AL:250:TRP:CE3	1:AL:272:TYR:CE1	2.95	0.54
1:AQ:256:ASN:HD22	1:AQ:302:ASP:HA	1.73	0.54
1:AR:398:GLY:HA3	1:AR:494:PHE:CD2	2.42	0.54
1:BA:250:TRP:HZ3	1:BA:272:TYR:CE1	2.22	0.54
1:BI:398:GLY:HA3	1:BI:494:PHE:CD2	2.41	0.54
1:BS:58:ALA:HB2	1:BS:102:GLY:HA3	1.88	0.54
1:CL:454:ASN:HD22	1:CL:456:ALA:N	2.01	0.54
1:AB:398:GLY:HA3	1:AB:494:PHE:CD2	2.43	0.54
1:AF:16:ALA:O	1:AF:17:ASN:HB2	2.07	0.54
1:AH:284:ARG:CG	1:AH:284:ARG:NH1	2.70	0.54
1:AK:442:GLN:NE2	1:AL:412:PHE:HB2	2.23	0.54
1:BG:250:TRP:CE3	1:BG:272:TYR:CE1	2.95	0.54
1:BJ:74:ASN:ND2	1:BJ:77:THR:OG1	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CE:226:VAL:HG13	1:CE:228:GLY:H	1.73	0.54
1:CJ:272:TYR:CD2	1:CQ:55:ARG:HD3	2.43	0.54
1:CK:250:TRP:HZ3	1:CK:272:TYR:CE1	2.22	0.54
1:CM:454:ASN:ND2	1:CM:456:ALA:H	2.02	0.54
1:CQ:454:ASN:HD21	1:CQ:456:ALA:HB3	1.72	0.54
1:CS:203:THR:HB	1:CS:300:GLN:HG3	1.88	0.54
1:AG:454:ASN:HD22	1:AG:456:ALA:N	2.04	0.54
1:AJ:67:VAL:HG23	1:AJ:135:LEU:HB2	1.90	0.54
1:AM:67:VAL:HG23	1:AM:135:LEU:HB2	1.89	0.54
1:AO:74:ASN:CB	1:AO:126:GLU:HG2	2.37	0.54
1:BA:189:PHE:HD2	1:BA:247:ILE:HD11	1.73	0.54
1:BD:288:HIS:HD2	1:BD:337:ASP:OD2	1.90	0.54
1:BI:14:CYS:H	1:BI:138:ASN:HD21	1.56	0.54
1:BN:250:TRP:CE3	1:BN:272:TYR:CE1	2.96	0.54
1:BP:398:GLY:HA3	1:BP:494:PHE:CD2	2.43	0.54
1:CC:79:ARG:HG3	1:CC:79:ARG:NH1	2.21	0.54
1:CP:454:ASN:HD22	1:CP:456:ALA:N	2.06	0.54
1:AG:58:ALA:HB2	1:AG:102:GLY:HA3	1.89	0.54
1:BB:454:ASN:HD22	1:BB:456:ALA:N	1.99	0.54
1:BF:250:TRP:CE3	1:BF:272:TYR:CE1	2.95	0.54
1:BJ:454:ASN:HD21	1:BJ:456:ALA:HB3	1.73	0.54
1:BO:250:TRP:CE3	1:BO:272:TYR:CD1	2.95	0.54
1:BQ:162:PHE:CD2	1:BQ:163:LEU:HD13	2.43	0.54
1:CB:398:GLY:HA3	1:CB:494:PHE:CD2	2.43	0.54
1:CF:30:SER:O	1:CF:33:LYS:HB2	2.08	0.54
1:CT:189:PHE:HE1	1:CT:198:ARG:CG	2.19	0.54
1:CT:250:TRP:CE3	1:CT:272:TYR:CE1	2.96	0.54
1:AO:289:ARG:HH12	1:AO:337:ASP:C	2.10	0.54
1:BG:14:CYS:H	1:BG:138:ASN:HD21	1.54	0.54
1:BH:454:ASN:HD22	1:BH:456:ALA:N	2.02	0.54
1:BP:77:THR:O	1:BP:81:THR:HG23	2.07	0.54
1:BT:250:TRP:HZ3	1:BT:272:TYR:CE1	2.22	0.54
1:CC:67:VAL:HG23	1:CC:135:LEU:HB2	1.90	0.54
1:CF:250:TRP:HZ3	1:CF:272:TYR:CE1	2.21	0.54
1:CJ:272:TYR:CD2	1:CQ:55:ARG:NH1	2.75	0.54
1:AF:55:ARG:HD3	1:BH:272:TYR:CE2	2.43	0.54
1:AI:250:TRP:CZ3	1:AI:272:TYR:HE1	2.22	0.54
1:AK:58:ALA:HB2	1:AK:102:GLY:HA3	1.89	0.54
1:AN:55:ARG:NH1	1:AS:272:TYR:CD2	2.76	0.54
1:BC:398:GLY:HA3	1:BC:494:PHE:CD2	2.43	0.54
1:BT:189:PHE:CE1	1:BT:198:ARG:CG	2.91	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BT:454:ASN:ND2	1:BT:456:ALA:H	2.03	0.54
1:CA:11:PRO:HG2	1:CA:18:ARG:HD2	1.90	0.54
1:CB:67:VAL:HG23	1:CB:135:LEU:HB2	1.89	0.54
1:CT:189:PHE:HD2	1:CT:247:ILE:HD11	1.73	0.54
1:AH:74:ASN:CB	1:AH:126:GLU:HG2	2.37	0.54
1:AH:250:TRP:HZ3	1:AH:272:TYR:CE1	2.24	0.54
1:AI:43:ALA:HB1	1:AI:158:GLU:HA	1.89	0.54
1:AI:418:SER:HB3	1:AJ:407:SER:HB3	1.90	0.54
1:AQ:189:PHE:HE2	1:AQ:249:LEU:HD21	1.71	0.54
1:BO:15:GLN:HA	1:BO:15:GLN:NE2	2.18	0.54
1:CD:67:VAL:HG23	1:CD:135:LEU:HB2	1.88	0.54
1:CK:67:VAL:HG23	1:CK:135:LEU:HB2	1.89	0.54
1:AD:272:TYR:HE2	1:AS:55:ARG:NE	2.06	0.54
1:AF:288:HIS:HD2	1:AF:337:ASP:OD2	1.91	0.54
1:AJ:191:LEU:O	1:AQ:144:ALA:HB3	2.09	0.54
1:AO:203:THR:CG2	1:AO:293:ARG:HA	2.38	0.54
1:CE:203:THR:HB	1:CE:300:GLN:HG3	1.90	0.54
1:CS:79:ARG:HH11	1:CS:79:ARG:HG3	1.73	0.54
1:AL:442:GLN:HE21	1:AM:412:PHE:HB2	1.73	0.53
1:AO:272:TYR:CE2	1:AR:55:ARG:CZ	2.91	0.53
1:AO:398:GLY:HA3	1:AO:494:PHE:CD2	2.42	0.53
1:BA:398:GLY:HA3	1:BA:494:PHE:CD2	2.42	0.53
1:BJ:14:CYS:H	1:BJ:138:ASN:HD21	1.54	0.53
1:BJ:288:HIS:HD2	1:BJ:337:ASP:OD2	1.91	0.53
1:BM:189:PHE:CE1	1:BM:198:ARG:HG2	2.43	0.53
1:BO:454:ASN:HD22	1:BO:456:ALA:N	2.06	0.53
1:BR:398:GLY:HA3	1:BR:494:PHE:CD2	2.43	0.53
1:CH:16:ALA:O	1:CH:17:ASN:HB2	2.08	0.53
1:CN:454:ASN:ND2	1:CN:456:ALA:H	2.02	0.53
1:CT:67:VAL:HG23	1:CT:135:LEU:HB2	1.89	0.53
1:AO:288:HIS:HD2	1:AO:337:ASP:OD2	1.91	0.53
1:BN:170:PHE:HD1	1:BN:389:MET:HE2	1.73	0.53
1:CR:398:GLY:HA3	1:CR:494:PHE:CD2	2.42	0.53
1:AI:79:ARG:HG3	1:AI:79:ARG:NH1	2.18	0.53
1:AK:288:HIS:HD2	1:AK:337:ASP:OD2	1.90	0.53
1:AT:11:PRO:HG2	1:AT:18:ARG:HD2	1.89	0.53
1:AT:189:PHE:HE2	1:AT:249:LEU:CD2	2.21	0.53
1:AT:398:GLY:HA3	1:AT:494:PHE:CD2	2.42	0.53
1:BA:239:ILE:HG12	1:BA:326:ILE:CD1	2.39	0.53
1:BF:189:PHE:CE1	1:BF:198:ARG:HG2	2.43	0.53
1:BJ:454:ASN:HD22	1:BJ:456:ALA:N	2.03	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BM:203:THR:HB	1:BM:300:GLN:HG3	1.91	0.53
1:BS:191:LEU:HD23	1:BS:191:LEU:N	2.19	0.53
1:CL:250:TRP:CE3	1:CL:272:TYR:CE1	2.95	0.53
1:CT:189:PHE:CE1	1:CT:198:ARG:CG	2.91	0.53
1:AB:264:GLU:O	1:AB:265:LEU:C	2.45	0.53
1:AI:67:VAL:HG23	1:AI:135:LEU:HB2	1.89	0.53
1:AK:250:TRP:CE3	1:AK:272:TYR:CE1	2.96	0.53
1:AR:67:VAL:HG23	1:AR:135:LEU:HB2	1.91	0.53
1:BC:272:TYR:HE2	1:CA:55:ARG:CD	2.21	0.53
1:BH:250:TRP:CE3	1:BH:272:TYR:CE1	2.97	0.53
1:BT:398:GLY:HA3	1:BT:494:PHE:CD2	2.43	0.53
1:CD:272:TYR:CD2	1:CS:55:ARG:CZ	2.92	0.53
1:CE:454:ASN:HD21	1:CE:456:ALA:HB3	1.73	0.53
1:CJ:288:HIS:HD2	1:CJ:337:ASP:OD2	1.91	0.53
1:CO:67:VAL:HG23	1:CO:135:LEU:HB2	1.90	0.53
1:CP:170:PHE:HD1	1:CP:389:MET:HE2	1.74	0.53
1:CP:250:TRP:HZ3	1:CP:272:TYR:CE1	2.25	0.53
1:AA:250:TRP:CE3	1:AA:272:TYR:CE1	2.97	0.53
1:AK:14:CYS:H	1:AK:138:ASN:ND2	2.05	0.53
1:AL:74:ASN:ND2	1:AL:77:THR:OG1	2.41	0.53
1:AM:250:TRP:CE3	1:AM:272:TYR:CE1	2.96	0.53
1:AQ:250:TRP:CE3	1:AQ:272:TYR:CE1	2.97	0.53
1:BB:162:PHE:CD2	1:BB:163:LEU:HD13	2.44	0.53
1:BC:454:ASN:ND2	1:BC:456:ALA:H	2.03	0.53
1:BN:18:ARG:HG3	1:BN:19:TYR:N	2.22	0.53
1:CA:250:TRP:CE3	1:CA:272:TYR:CE1	2.95	0.53
1:CC:75:ARG:NH2	1:CC:391:ALA:O	2.41	0.53
1:CE:67:VAL:HG23	1:CE:135:LEU:HB2	1.91	0.53
1:CH:14:CYS:H	1:CH:138:ASN:HD21	1.56	0.53
1:CK:288:HIS:HD2	1:CK:337:ASP:OD2	1.92	0.53
1:AC:288:HIS:HD2	1:AC:337:ASP:OD2	1.92	0.53
1:AG:266:PHE:N	1:AG:266:PHE:HD1	2.07	0.53
1:AK:55:ARG:HD3	1:CF:272:TYR:HD2	1.69	0.53
1:AL:272:TYR:CD2	1:CJ:55:ARG:NE	2.77	0.53
1:AO:30:SER:O	1:AO:33:LYS:HB2	2.09	0.53
1:BE:14:CYS:H	1:BE:138:ASN:HD21	1.57	0.53
1:BI:250:TRP:CE3	1:BI:272:TYR:CE1	2.96	0.53
1:BT:67:VAL:HG23	1:BT:135:LEU:HB2	1.89	0.53
1:CD:272:TYR:CE2	1:CS:55:ARG:CZ	2.91	0.53
1:CT:43:ALA:HB1	1:CT:158:GLU:HA	1.90	0.53
1:AA:239:ILE:HG12	1:AA:326:ILE:CD1	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:67:VAL:HG23	1:AC:135:LEU:HB2	1.90	0.53
1:AF:79:ARG:HG3	1:AF:79:ARG:NH1	2.17	0.53
1:AF:487:LEU:HD21	1:AJ:436:SER:O	2.09	0.53
1:AL:272:TYR:CD2	1:CJ:55:ARG:NH1	2.76	0.53
1:AP:412:PHE:HB2	1:AT:442:GLN:HE21	1.74	0.53
1:AR:454:ASN:ND2	1:AR:456:ALA:H	2.03	0.53
1:BL:454:ASN:HD22	1:BL:456:ALA:N	2.03	0.53
1:BR:250:TRP:CE3	1:BR:272:TYR:CE1	2.96	0.53
1:CA:14:CYS:H	1:CA:138:ASN:HD21	1.57	0.53
1:CC:288:HIS:HD2	1:CC:337:ASP:OD2	1.92	0.53
1:CH:250:TRP:HZ3	1:CH:272:TYR:CE1	2.22	0.53
1:CJ:58:ALA:HB2	1:CJ:102:GLY:HA3	1.89	0.53
1:CP:189:PHE:HE2	1:CP:249:LEU:CD2	2.22	0.53
1:AA:30:SER:O	1:AA:33:LYS:HB2	2.09	0.53
1:AH:55:ARG:NE	1:AK:272:TYR:HE2	1.92	0.53
1:AI:243:ILE:HD13	1:AO:61:PHE:CZ	2.44	0.53
1:AM:203:THR:HB	1:AM:300:GLN:HG3	1.91	0.53
1:AN:79:ARG:HG3	1:AN:79:ARG:NH1	2.18	0.53
1:AQ:43:ALA:HB1	1:AQ:158:GLU:HA	1.91	0.53
1:BA:58:ALA:HB2	1:BA:102:GLY:HA3	1.90	0.53
1:BG:272:TYR:HE2	1:CG:55:ARG:NE	1.99	0.53
1:BI:191:LEU:HD23	1:BI:191:LEU:N	2.18	0.53
1:BJ:272:TYR:N	1:BJ:272:TYR:HD1	2.06	0.53
1:BK:67:VAL:HG23	1:BK:135:LEU:HB2	1.90	0.53
1:BM:79:ARG:HH11	1:BM:79:ARG:CG	2.22	0.53
1:BM:191:LEU:HD23	1:BM:191:LEU:N	2.17	0.53
1:BN:250:TRP:HZ3	1:BN:272:TYR:CE1	2.24	0.53
1:CB:288:HIS:HD2	1:CB:337:ASP:OD2	1.92	0.53
1:CO:79:ARG:HG3	1:CO:79:ARG:NH1	2.23	0.53
1:AD:288:HIS:HD2	1:AD:337:ASP:OD2	1.92	0.53
1:AD:454:ASN:HD22	1:AD:456:ALA:N	2.02	0.53
1:AF:67:VAL:HG23	1:AF:135:LEU:HB2	1.91	0.53
1:AF:250:TRP:CE3	1:AF:272:TYR:CE1	2.97	0.53
1:AK:74:ASN:ND2	1:AK:77:THR:OG1	2.42	0.53
1:AK:189:PHE:CE1	1:AK:198:ARG:CG	2.92	0.53
1:BM:25:ILE:HG23	1:BM:152:LEU:HD11	1.91	0.53
1:CC:398:GLY:HA3	1:CC:494:PHE:CD2	2.44	0.53
1:CD:58:ALA:HB2	1:CD:102:GLY:HA3	1.91	0.53
1:CI:288:HIS:HD2	1:CI:337:ASP:OD2	1.90	0.53
1:CL:189:PHE:HE2	1:CL:249:LEU:CD2	2.22	0.53
1:CO:189:PHE:HE2	1:CO:249:LEU:CD2	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CR:189:PHE:CE1	1:CR:198:ARG:HG2	2.43	0.53
1:AL:189:PHE:HE2	1:AL:249:LEU:CD2	2.22	0.53
1:AO:191:LEU:CD2	1:AO:191:LEU:N	2.72	0.53
1:AR:250:TRP:HZ3	1:AR:272:TYR:CE1	2.23	0.53
1:AR:454:ASN:HD21	1:AR:456:ALA:HB3	1.73	0.53
1:AT:43:ALA:HB1	1:AT:158:GLU:HA	1.90	0.53
1:BA:14:CYS:H	1:BA:138:ASN:ND2	2.03	0.53
1:BC:288:HIS:HD2	1:BC:337:ASP:OD2	1.92	0.53
1:BF:43:ALA:HB1	1:BF:158:GLU:HA	1.91	0.53
1:BK:189:PHE:HD2	1:BK:247:ILE:HD11	1.74	0.53
1:BP:58:ALA:HB2	1:BP:102:GLY:HA3	1.91	0.53
1:BP:250:TRP:CE3	1:BP:272:TYR:CD1	2.97	0.53
1:BT:74:ASN:ND2	1:BT:77:THR:OG1	2.41	0.53
1:BT:170:PHE:HD1	1:BT:389:MET:CE	2.22	0.53
1:CD:288:HIS:HD2	1:CD:337:ASP:OD2	1.92	0.53
1:CG:189:PHE:CE1	1:CG:198:ARG:HG2	2.44	0.53
1:AD:79:ARG:HH11	1:AD:79:ARG:CG	2.21	0.52
1:AG:284:ARG:CG	1:AG:284:ARG:NH1	2.69	0.52
1:AK:75:ARG:NH2	1:AK:391:ALA:O	2.42	0.52
1:AK:398:GLY:HA3	1:AK:494:PHE:CD2	2.43	0.52
1:AL:55:ARG:HD3	1:CQ:272:TYR:CE2	2.44	0.52
1:BD:454:ASN:HD22	1:BD:456:ALA:N	2.06	0.52
1:BI:36:GLN:NE2	1:BI:156:LEU:H	2.07	0.52
1:BO:288:HIS:HD2	1:BO:337:ASP:OD2	1.92	0.52
1:CC:272:TYR:N	1:CC:272:TYR:HD1	2.07	0.52
1:CL:398:GLY:HA3	1:CL:494:PHE:CD2	2.45	0.52
1:CP:284:ARG:CG	1:CP:284:ARG:NH1	2.72	0.52
1:AH:437:HIS:CE1	1:AI:405:GLN:NE2	2.77	0.52
1:AJ:191:LEU:CD2	1:AJ:191:LEU:N	2.70	0.52
1:AO:226:VAL:HG13	1:AO:228:GLY:H	1.74	0.52
1:AO:250:TRP:HZ3	1:AO:272:TYR:CE1	2.25	0.52
1:AQ:239:ILE:HG12	1:AQ:326:ILE:CD1	2.40	0.52
1:BB:30:SER:O	1:BB:33:LYS:HB2	2.09	0.52
1:BT:55:ARG:CZ	1:CA:272:TYR:CD2	2.92	0.52
1:CA:189:PHE:CE1	1:CA:198:ARG:CG	2.93	0.52
1:CJ:14:CYS:H	1:CJ:138:ASN:ND2	2.07	0.52
1:CN:288:HIS:HD2	1:CN:337:ASP:OD2	1.92	0.52
1:CS:189:PHE:HE2	1:CS:249:LEU:CD2	2.20	0.52
1:AA:272:TYR:CE2	1:CT:55:ARG:HD3	2.43	0.52
1:AA:288:HIS:HD2	1:AA:337:ASP:OD2	1.92	0.52
1:AG:266:PHE:N	1:AG:266:PHE:CD1	2.77	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:189:PHE:CE2	1:AR:249:LEU:HD21	2.41	0.52
1:BA:79:ARG:CG	1:BA:79:ARG:NH1	2.71	0.52
1:BG:288:HIS:HD2	1:BG:337:ASP:OD2	1.92	0.52
1:BH:74:ASN:ND2	1:BH:77:THR:OG1	2.42	0.52
1:CC:250:TRP:HZ3	1:CC:272:TYR:CE1	2.20	0.52
1:CF:398:GLY:HA3	1:CF:494:PHE:CD2	2.45	0.52
1:CT:14:CYS:H	1:CT:138:ASN:ND2	2.04	0.52
1:AD:284:ARG:CG	1:AD:284:ARG:NH1	2.70	0.52
1:AF:250:TRP:HZ3	1:AF:272:TYR:CE1	2.25	0.52
1:AO:289:ARG:NH1	1:AO:338:LEU:C	2.62	0.52
1:AS:189:PHE:HE2	1:AS:249:LEU:CD2	2.22	0.52
1:BC:189:PHE:CE1	1:BC:198:ARG:CG	2.92	0.52
1:BF:398:GLY:HA3	1:BF:494:PHE:CD2	2.45	0.52
1:BH:232:THR:HB	1:BH:334:VAL:CG2	2.40	0.52
1:BJ:398:GLY:HA3	1:BJ:494:PHE:CD2	2.44	0.52
1:BL:79:ARG:HH11	1:BL:79:ARG:CG	2.23	0.52
1:BL:398:GLY:HA3	1:BL:494:PHE:CD2	2.44	0.52
1:BO:191:LEU:CD2	1:BO:191:LEU:N	2.73	0.52
1:BO:284:ARG:CG	1:BO:284:ARG:NH1	2.68	0.52
1:CA:189:PHE:HE2	1:CA:249:LEU:CD2	2.23	0.52
1:CA:288:HIS:HD2	1:CA:337:ASP:OD2	1.92	0.52
1:CG:226:VAL:HG13	1:CG:228:GLY:H	1.75	0.52
1:CK:454:ASN:HD21	1:CK:456:ALA:HB3	1.75	0.52
1:CL:454:ASN:ND2	1:CL:456:ALA:H	2.03	0.52
1:AJ:189:PHE:HE1	1:AJ:198:ARG:HG2	1.74	0.52
1:AK:250:TRP:HZ3	1:AK:272:TYR:CE1	2.23	0.52
1:AN:250:TRP:HZ3	1:AN:272:TYR:CE1	2.24	0.52
1:AR:454:ASN:HD22	1:AR:456:ALA:N	2.01	0.52
1:BE:189:PHE:CE1	1:BE:198:ARG:HG2	2.43	0.52
1:BF:30:SER:O	1:BF:33:LYS:HB2	2.09	0.52
1:BG:272:TYR:CE2	1:CG:55:ARG:HD3	2.43	0.52
1:BJ:250:TRP:CE3	1:BJ:272:TYR:CD1	2.97	0.52
1:BN:288:HIS:HD2	1:BN:337:ASP:OD2	1.92	0.52
1:CA:30:SER:O	1:CA:33:LYS:HB2	2.10	0.52
1:CE:272:TYR:CD2	1:CM:55:ARG:HD3	2.44	0.52
1:CE:398:GLY:HA3	1:CE:494:PHE:CD2	2.44	0.52
1:CI:250:TRP:CE3	1:CI:272:TYR:CE1	2.97	0.52
1:CM:454:ASN:HD21	1:CM:456:ALA:HB3	1.74	0.52
1:CS:75:ARG:NH2	1:CS:391:ALA:O	2.42	0.52
1:AC:239:ILE:HG12	1:AC:326:ILE:CD1	2.38	0.52
1:AJ:16:ALA:O	1:AJ:17:ASN:HB2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:203:THR:HG21	1:AO:294:LEU:HD23	1.92	0.52
1:BE:58:ALA:HB2	1:BE:102:GLY:HA3	1.92	0.52
1:BJ:43:ALA:HB1	1:BJ:158:GLU:HA	1.92	0.52
1:BQ:25:ILE:HG23	1:BQ:152:LEU:HD11	1.91	0.52
1:BR:162:PHE:CD2	1:BR:163:LEU:HD13	2.44	0.52
1:CE:272:TYR:N	1:CE:272:TYR:HD1	2.08	0.52
1:CF:487:LEU:HD21	1:CJ:436:SER:O	2.09	0.52
1:CG:162:PHE:CD2	1:CG:163:LEU:HD13	2.45	0.52
1:CL:7:VAL:HG11	1:CL:9:TYR:CZ	2.44	0.52
1:CO:75:ARG:NH2	1:CO:391:ALA:O	2.43	0.52
1:AA:454:ASN:ND2	1:AA:456:ALA:H	2.03	0.52
1:AC:162:PHE:CD2	1:AC:163:LEU:HD13	2.44	0.52
1:AD:189:PHE:HE2	1:AD:249:LEU:HD21	1.75	0.52
1:AI:398:GLY:HA3	1:AI:494:PHE:CD2	2.44	0.52
1:AL:58:ALA:HB2	1:AL:102:GLY:HA3	1.92	0.52
1:AL:191:LEU:CD2	1:AL:191:LEU:N	2.72	0.52
1:AL:284:ARG:CG	1:AL:284:ARG:NH1	2.70	0.52
1:AT:14:CYS:H	1:AT:138:ASN:HD21	1.56	0.52
1:BA:189:PHE:CE2	1:BA:249:LEU:HD21	2.45	0.52
1:BB:55:ARG:HD3	1:CB:272:TYR:CE2	2.44	0.52
1:BG:379:VAL:HG11	1:BG:381:MET:HE1	1.92	0.52
1:BN:170:PHE:HD1	1:BN:389:MET:CE	2.21	0.52
1:BO:67:VAL:HG23	1:BO:135:LEU:HB2	1.90	0.52
1:BQ:454:ASN:HD22	1:BQ:456:ALA:N	2.03	0.52
1:CB:189:PHE:HE1	1:CB:198:ARG:HG2	1.73	0.52
1:CR:454:ASN:HD22	1:CR:456:ALA:N	2.02	0.52
1:AL:189:PHE:CE1	1:AL:198:ARG:CG	2.92	0.52
1:AL:267:LYS:HG2	1:CJ:32:PHE:CZ	2.45	0.52
1:AO:75:ARG:NH2	1:AO:391:ALA:O	2.41	0.52
1:AQ:398:GLY:HA3	1:AQ:494:PHE:CD2	2.44	0.52
1:BB:18:ARG:HG3	1:BB:19:TYR:N	2.25	0.52
1:BC:43:ALA:HB1	1:BC:158:GLU:HA	1.92	0.52
1:BC:250:TRP:HZ3	1:BC:272:TYR:CE1	2.28	0.52
1:BJ:226:VAL:HG13	1:BJ:228:GLY:H	1.75	0.52
1:BO:191:LEU:HD23	1:BO:191:LEU:N	2.17	0.52
1:BS:250:TRP:CE3	1:BS:272:TYR:CE1	2.98	0.52
1:BT:191:LEU:HD23	1:BT:191:LEU:N	2.19	0.52
1:CC:74:ASN:ND2	1:CC:77:THR:OG1	2.43	0.52
1:CG:67:VAL:HG23	1:CG:135:LEU:HB2	1.90	0.52
1:CI:38:GLU:HB2	1:CQ:35:VAL:CG2	2.38	0.52
1:CR:288:HIS:HD2	1:CR:337:ASP:OD2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:272:TYR:CD1	1:AB:272:TYR:N	2.78	0.52
1:AP:55:ARG:CD	1:BM:272:TYR:HE2	2.23	0.52
1:AP:55:ARG:HD3	1:BM:272:TYR:CD2	2.44	0.52
1:AP:191:LEU:CD2	1:AP:191:LEU:N	2.72	0.52
1:AQ:189:PHE:HE1	1:AQ:198:ARG:CG	2.22	0.52
1:BC:58:ALA:HB2	1:BC:102:GLY:HA3	1.92	0.52
1:BE:272:TYR:CE2	1:BM:55:ARG:CZ	2.93	0.52
1:BJ:272:TYR:N	1:BJ:272:TYR:CD1	2.78	0.52
1:BQ:16:ALA:O	1:BQ:17:ASN:HB2	2.10	0.52
1:CA:170:PHE:HD1	1:CA:389:MET:CE	2.23	0.52
1:CJ:75:ARG:NH2	1:CJ:391:ALA:O	2.42	0.52
1:CO:398:GLY:HA3	1:CO:494:PHE:CD2	2.44	0.52
1:CP:74:ASN:ND2	1:CP:77:THR:OG1	2.43	0.52
1:BI:288:HIS:HD2	1:BI:337:ASP:OD2	1.93	0.52
1:BN:43:ALA:HB1	1:BN:158:GLU:HA	1.91	0.52
1:BN:398:GLY:HA3	1:BN:494:PHE:CD2	2.45	0.52
1:BQ:442:GLN:HE21	1:BR:412:PHE:HB2	1.75	0.52
1:CF:162:PHE:CD2	1:CF:163:LEU:HD13	2.45	0.52
1:CJ:67:VAL:HG23	1:CJ:135:LEU:HB2	1.92	0.52
1:CO:79:ARG:HH11	1:CO:79:ARG:CG	2.20	0.52
1:CS:11:PRO:HG2	1:CS:18:ARG:HD2	1.92	0.52
1:CS:250:TRP:HZ3	1:CS:272:TYR:CE1	2.26	0.52
1:AC:272:TYR:CE2	1:BA:55:ARG:CD	2.92	0.51
1:AD:454:ASN:ND2	1:AD:456:ALA:H	2.05	0.51
1:AG:270:GLY:O	1:AG:271:VAL:CG1	2.58	0.51
1:AI:288:HIS:HD2	1:AI:337:ASP:OD2	1.92	0.51
1:AK:67:VAL:HG23	1:AK:135:LEU:HB2	1.92	0.51
1:AN:191:LEU:HD23	1:AN:191:LEU:N	2.20	0.51
1:AN:239:ILE:HG23	1:AN:324:LEU:HD21	1.93	0.51
1:AN:398:GLY:HA3	1:AN:494:PHE:CD2	2.43	0.51
1:AS:232:THR:HB	1:AS:334:VAL:HG23	1.92	0.51
1:BD:191:LEU:CD2	1:BD:191:LEU:N	2.73	0.51
1:BQ:250:TRP:CE3	1:BQ:272:TYR:CE1	2.97	0.51
1:BR:67:VAL:HG23	1:BR:135:LEU:HB2	1.91	0.51
1:CD:398:GLY:HA3	1:CD:494:PHE:CD2	2.45	0.51
1:CF:79:ARG:CG	1:CF:79:ARG:NH1	2.60	0.51
1:CT:58:ALA:HB2	1:CT:102:GLY:HA3	1.92	0.51
1:AE:14:CYS:H	1:AE:138:ASN:ND2	2.05	0.51
1:AR:239:ILE:HG12	1:AR:326:ILE:CD1	2.41	0.51
1:BC:250:TRP:CZ3	1:BC:272:TYR:HE1	2.26	0.51
1:BI:30:SER:O	1:BI:33:LYS:HB2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BK:79:ARG:HH11	1:BK:79:ARG:HG3	1.75	0.51
1:BL:250:TRP:CE3	1:BL:272:TYR:CE1	2.98	0.51
1:BR:43:ALA:HB1	1:BR:158:GLU:HA	1.91	0.51
1:CE:18:ARG:HG3	1:CE:19:TYR:N	2.25	0.51
1:CL:250:TRP:HZ3	1:CL:272:TYR:CE1	2.24	0.51
1:CM:67:VAL:HG23	1:CM:135:LEU:HB2	1.91	0.51
1:CN:43:ALA:HB1	1:CN:158:GLU:HA	1.92	0.51
1:CS:67:VAL:HG23	1:CS:135:LEU:HB2	1.92	0.51
1:CT:288:HIS:HD2	1:CT:337:ASP:OD2	1.92	0.51
1:AC:454:ASN:HD21	1:AC:456:ALA:HB3	1.75	0.51
1:AE:454:ASN:ND2	1:AE:456:ALA:H	2.03	0.51
1:AI:58:ALA:HB2	1:AI:102:GLY:HA3	1.92	0.51
1:AL:250:TRP:HZ3	1:AL:272:TYR:CE1	2.22	0.51
1:AS:43:ALA:HB1	1:AS:158:GLU:HA	1.92	0.51
1:BJ:272:TYR:HD2	1:BQ:55:ARG:HD3	1.75	0.51
1:BL:7:VAL:CG1	1:BL:9:TYR:CZ	2.93	0.51
1:BO:272:TYR:CD2	1:BR:55:ARG:CD	2.94	0.51
1:CA:74:ASN:ND2	1:CA:77:THR:OG1	2.43	0.51
1:CA:250:TRP:HZ3	1:CA:272:TYR:CE1	2.26	0.51
1:CE:272:TYR:CD2	1:CM:55:ARG:NH1	2.78	0.51
1:CF:191:LEU:HD23	1:CF:191:LEU:N	2.18	0.51
1:CK:191:LEU:HD23	1:CK:191:LEU:N	2.19	0.51
1:CO:250:TRP:HZ3	1:CO:272:TYR:CE1	2.23	0.51
1:AB:265:LEU:O	1:AB:265:LEU:HD13	2.10	0.51
1:AG:189:PHE:CE2	1:AG:249:LEU:HD21	2.42	0.51
1:AH:189:PHE:HE1	1:AH:198:ARG:HG2	1.75	0.51
1:AM:250:TRP:HZ3	1:AM:272:TYR:CE1	2.24	0.51
1:AQ:25:ILE:HG23	1:AQ:152:LEU:HD11	1.92	0.51
1:AS:162:PHE:CD2	1:AS:163:LEU:HD13	2.45	0.51
1:AS:250:TRP:HZ3	1:AS:272:TYR:CE1	2.23	0.51
1:BE:250:TRP:CE3	1:BE:272:TYR:CE1	2.98	0.51
1:BH:58:ALA:HB2	1:BH:102:GLY:HA3	1.92	0.51
1:BH:170:PHE:HD1	1:BH:389:MET:CE	2.23	0.51
1:BL:189:PHE:HE2	1:BL:249:LEU:CD2	2.24	0.51
1:BQ:239:ILE:HG12	1:BQ:326:ILE:CD1	2.41	0.51
1:CF:14:CYS:H	1:CF:138:ASN:HD21	1.57	0.51
1:CJ:272:TYR:N	1:CJ:272:TYR:HD1	2.07	0.51
1:CP:189:PHE:CE1	1:CP:198:ARG:CG	2.93	0.51
1:AD:239:ILE:HG12	1:AD:326:ILE:CD1	2.41	0.51
1:AF:412:PHE:HB2	1:AJ:442:GLN:HE21	1.74	0.51
1:AI:170:PHE:HD1	1:AI:389:MET:CE	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:288:HIS:HD2	1:AJ:337:ASP:OD2	1.93	0.51
1:AK:189:PHE:HE2	1:AK:249:LEU:CD2	2.23	0.51
1:AN:232:THR:HB	1:AN:334:VAL:CG2	2.40	0.51
1:AO:189:PHE:HE2	1:AO:249:LEU:CD2	2.24	0.51
1:BC:272:TYR:HD2	1:CA:55:ARG:HD3	1.73	0.51
1:BH:232:THR:HB	1:BH:334:VAL:HG23	1.93	0.51
1:BO:58:ALA:HB2	1:BO:102:GLY:HA3	1.93	0.51
1:CF:67:VAL:HG23	1:CF:135:LEU:HB2	1.91	0.51
1:CG:239:ILE:HG12	1:CG:326:ILE:CD1	2.40	0.51
1:CR:80:ILE:O	1:CR:83:SER:CA	2.59	0.51
1:AJ:189:PHE:CE1	1:AJ:198:ARG:HG2	2.45	0.51
1:AK:189:PHE:HE1	1:AK:198:ARG:CG	2.21	0.51
1:AQ:189:PHE:HD2	1:AQ:247:ILE:HD11	1.76	0.51
1:AS:272:TYR:N	1:AS:272:TYR:HD1	2.08	0.51
1:BB:189:PHE:CE1	1:BB:198:ARG:HG2	2.46	0.51
1:BD:18:ARG:HG3	1:BD:19:TYR:N	2.26	0.51
1:BD:144:ALA:HB3	1:BN:191:LEU:O	2.10	0.51
1:BE:191:LEU:CD2	1:BE:191:LEU:N	2.74	0.51
1:BI:79:ARG:HH11	1:BI:79:ARG:HG3	1.75	0.51
1:BI:226:VAL:HG13	1:BI:228:GLY:H	1.76	0.51
1:BK:239:ILE:HG12	1:BK:326:ILE:CD1	2.41	0.51
1:BN:454:ASN:ND2	1:BN:456:ALA:H	2.05	0.51
1:BO:189:PHE:CE1	1:BO:198:ARG:CG	2.94	0.51
1:CF:347:TYR:O	1:CJ:435:PRO:HB3	2.11	0.51
1:CG:30:SER:O	1:CG:33:LYS:HB2	2.11	0.51
1:CI:38:GLU:CB	1:CQ:35:VAL:CG2	2.88	0.51
1:CI:354:SER:O	1:CI:378:ARG:CB	2.58	0.51
1:CQ:14:CYS:H	1:CQ:138:ASN:ND2	2.09	0.51
1:CQ:239:ILE:HG12	1:CQ:326:ILE:CD1	2.41	0.51
1:CR:74:ASN:ND2	1:CR:77:THR:OG1	2.43	0.51
1:AA:8:ILE:HG22	1:AA:10:ILE:HD11	1.92	0.51
1:AA:55:ARG:HD3	1:CC:272:TYR:CD2	2.45	0.51
1:AL:189:PHE:HE2	1:AL:249:LEU:HD21	1.75	0.51
1:AM:58:ALA:HB2	1:AM:102:GLY:HA3	1.93	0.51
1:AP:67:VAL:HG23	1:AP:135:LEU:HB2	1.93	0.51
1:AP:226:VAL:HG13	1:AP:228:GLY:H	1.75	0.51
1:AQ:189:PHE:CE1	1:AQ:198:ARG:CG	2.94	0.51
1:AQ:272:TYR:CD2	1:BL:55:ARG:HD3	2.45	0.51
1:AR:191:LEU:CD2	1:AR:191:LEU:N	2.73	0.51
1:BE:162:PHE:CD2	1:BE:163:LEU:HD13	2.46	0.51
1:BO:30:SER:O	1:BO:33:LYS:HB2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CC:404:LEU:HD22	1:CC:486:VAL:HG22	1.92	0.51
1:CN:38:GLU:HB2	1:CR:35:VAL:HG22	1.92	0.51
1:CT:263:ASN:O	1:CT:267:LYS:HG3	2.11	0.51
1:AD:263:ASN:O	1:AD:267:LYS:HG3	2.10	0.51
1:AF:191:LEU:HD23	1:AF:191:LEU:N	2.21	0.51
1:AJ:170:PHE:HD1	1:AJ:389:MET:CE	2.24	0.51
1:AK:43:ALA:HB1	1:AK:158:GLU:HA	1.93	0.51
1:AQ:14:CYS:H	1:AQ:138:ASN:HD21	1.58	0.51
1:BK:454:ASN:HD21	1:BK:456:ALA:HB3	1.76	0.51
1:BM:454:ASN:ND2	1:BM:456:ALA:H	2.04	0.51
1:BO:272:TYR:N	1:BO:272:TYR:HD1	2.08	0.51
1:CB:43:ALA:HB1	1:CB:158:GLU:HA	1.92	0.51
1:CD:250:TRP:HZ3	1:CD:272:TYR:CE1	2.26	0.51
1:CE:30:SER:O	1:CE:33:LYS:HB2	2.11	0.51
1:CK:189:PHE:CE1	1:CK:198:ARG:CG	2.94	0.51
1:CO:189:PHE:HE1	1:CO:198:ARG:CG	2.19	0.51
1:CP:189:PHE:HE1	1:CP:198:ARG:CG	2.23	0.51
1:CR:80:ILE:O	1:CR:83:SER:O	2.29	0.51
1:CR:86:PRO:O	1:CR:88:TYR:CA	2.56	0.51
1:AA:189:PHE:HE2	1:AA:249:LEU:HD21	1.74	0.51
1:AC:250:TRP:HZ3	1:AC:272:TYR:CE1	2.26	0.51
1:AG:262:TRP:O	1:AG:265:LEU:N	2.43	0.51
1:AH:454:ASN:HD21	1:AH:456:ALA:HB3	1.76	0.51
1:AO:43:ALA:HB1	1:AO:158:GLU:HA	1.91	0.51
1:BA:16:ALA:O	1:BA:17:ASN:HB2	2.11	0.51
1:BF:55:ARG:HD3	1:CH:272:TYR:HD2	1.75	0.51
1:BJ:30:SER:O	1:BJ:33:LYS:HB2	2.09	0.51
1:BP:55:ARG:HD3	1:CM:272:TYR:CE2	2.46	0.51
1:BS:74:ASN:ND2	1:BS:77:THR:OG1	2.44	0.51
1:CL:288:HIS:HD2	1:CL:337:ASP:OD2	1.94	0.51
1:CN:14:CYS:H	1:CN:138:ASN:ND2	2.09	0.51
1:CQ:398:GLY:HA3	1:CQ:494:PHE:CD2	2.46	0.51
1:AF:58:ALA:HB2	1:AF:102:GLY:HA3	1.93	0.51
1:AF:239:ILE:HG12	1:AF:326:ILE:CD1	2.41	0.51
1:AN:67:VAL:HG23	1:AN:135:LEU:HB2	1.93	0.51
1:AP:288:HIS:HD2	1:AP:337:ASP:OD2	1.94	0.51
1:BB:398:GLY:HA3	1:BB:494:PHE:CD2	2.46	0.51
1:BD:30:SER:O	1:BD:33:LYS:HB2	2.10	0.51
1:BL:189:PHE:HD2	1:BL:247:ILE:HD11	1.76	0.51
1:BP:191:LEU:CD2	1:BP:191:LEU:N	2.73	0.51
1:BT:30:SER:O	1:BT:33:LYS:HB2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CB:232:THR:HB	1:CB:334:VAL:CG2	2.41	0.51
1:CB:250:TRP:HZ3	1:CB:272:TYR:CE1	2.25	0.51
1:AD:14:CYS:H	1:AD:138:ASN:ND2	2.09	0.50
1:AG:75:ARG:NH2	1:AG:391:ALA:O	2.45	0.50
1:AG:263:ASN:O	1:BG:32:PHE:HE1	1.93	0.50
1:AK:170:PHE:HD1	1:AK:389:MET:CE	2.24	0.50
1:AL:398:GLY:HA3	1:AL:494:PHE:CD2	2.46	0.50
1:AM:191:LEU:CD2	1:AM:191:LEU:N	2.73	0.50
1:AR:14:CYS:H	1:AR:138:ASN:ND2	2.07	0.50
1:AR:379:VAL:HG11	1:AR:381:MET:HE1	1.94	0.50
1:BH:55:ARG:HD3	1:BK:272:TYR:CE2	2.45	0.50
1:BJ:239:ILE:HG12	1:BJ:326:ILE:CD1	2.41	0.50
1:BM:250:TRP:CE3	1:BM:272:TYR:CE1	2.99	0.50
1:BQ:30:SER:O	1:BQ:33:LYS:HB2	2.12	0.50
1:BS:162:PHE:CD2	1:BS:163:LEU:HD13	2.46	0.50
1:BT:191:LEU:CD2	1:BT:191:LEU:N	2.74	0.50
1:CC:55:ARG:CZ	1:CT:272:TYR:CE2	2.93	0.50
1:CF:16:ALA:O	1:CF:17:ASN:HB2	2.12	0.50
1:CG:25:ILE:HG23	1:CG:152:LEU:HD11	1.93	0.50
1:CH:191:LEU:CD2	1:CH:191:LEU:N	2.75	0.50
1:CH:398:GLY:HA3	1:CH:494:PHE:CD2	2.45	0.50
1:CI:58:ALA:HB2	1:CI:102:GLY:HA3	1.93	0.50
1:CI:404:LEU:HD22	1:CI:486:VAL:HG22	1.92	0.50
1:CJ:170:PHE:HD1	1:CJ:389:MET:CE	2.23	0.50
1:CP:239:ILE:HG12	1:CP:326:ILE:CD1	2.41	0.50
1:CQ:191:LEU:CD2	1:CQ:191:LEU:N	2.73	0.50
1:AB:79:ARG:HH11	1:AB:79:ARG:CG	2.22	0.50
1:AD:5:ARG:HD3	1:AN:263:ASN:HD22	1.75	0.50
1:AD:170:PHE:HD1	1:AD:389:MET:CE	2.24	0.50
1:AD:454:ASN:HD21	1:AD:456:ALA:HB3	1.75	0.50
1:AG:38:GLU:HB3	1:CF:35:VAL:HG23	1.93	0.50
1:AH:436:SER:O	1:AI:487:LEU:HD21	2.11	0.50
1:AI:79:ARG:HH11	1:AI:79:ARG:CG	2.19	0.50
1:AJ:189:PHE:HD2	1:AJ:247:ILE:CD1	2.24	0.50
1:AL:418:SER:HB3	1:AM:407:SER:HB3	1.93	0.50
1:AO:25:ILE:HG23	1:AO:152:LEU:HD11	1.93	0.50
1:AP:454:ASN:ND2	1:AP:456:ALA:H	2.05	0.50
1:AS:250:TRP:CE3	1:AS:272:TYR:CD1	2.99	0.50
1:AT:67:VAL:HG23	1:AT:135:LEU:HB2	1.93	0.50
1:BD:272:TYR:HE2	1:BS:55:ARG:NE	2.04	0.50
1:BI:67:VAL:HG23	1:BI:135:LEU:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BM:162:PHE:CD2	1:BM:163:LEU:HD13	2.46	0.50
1:CC:191:LEU:CD2	1:CC:191:LEU:N	2.74	0.50
1:AA:191:LEU:CD2	1:AA:191:LEU:N	2.74	0.50
1:AC:30:SER:O	1:AC:33:LYS:HB2	2.11	0.50
1:AI:14:CYS:H	1:AI:138:ASN:ND2	2.08	0.50
1:AJ:74:ASN:ND2	1:AJ:77:THR:OG1	2.44	0.50
1:AL:30:SER:O	1:AL:33:LYS:HB2	2.12	0.50
1:AP:55:ARG:HD3	1:BM:272:TYR:CE2	2.47	0.50
1:BA:191:LEU:HD23	1:BA:191:LEU:N	2.21	0.50
1:BB:58:ALA:HB2	1:BB:102:GLY:HA3	1.92	0.50
1:BJ:16:ALA:O	1:BJ:17:ASN:HB2	2.11	0.50
1:BR:288:HIS:HD2	1:BR:337:ASP:OD2	1.93	0.50
1:BT:189:PHE:HE2	1:BT:249:LEU:HD21	1.76	0.50
1:BT:234:ARG:HG2	1:BT:280:GLU:HG2	1.94	0.50
1:CJ:272:TYR:N	1:CJ:272:TYR:CD1	2.80	0.50
1:CK:14:CYS:H	1:CK:138:ASN:ND2	2.08	0.50
1:CK:43:ALA:HB1	1:CK:158:GLU:HA	1.93	0.50
1:CL:67:VAL:HG23	1:CL:135:LEU:HB2	1.93	0.50
1:CS:30:SER:O	1:CS:33:LYS:HB2	2.12	0.50
1:AE:191:LEU:CD2	1:AE:191:LEU:N	2.74	0.50
1:AG:258:THR:C	1:AG:259:THR:O	2.41	0.50
1:BG:398:GLY:HA3	1:BG:494:PHE:CD2	2.47	0.50
1:BL:454:ASN:ND2	1:BL:456:ALA:H	2.06	0.50
1:BO:272:TYR:CD1	1:BO:272:TYR:N	2.79	0.50
1:BR:250:TRP:HZ3	1:BR:272:TYR:CE1	2.27	0.50
1:CA:189:PHE:HE1	1:CA:198:ARG:CG	2.24	0.50
1:CG:250:TRP:HZ3	1:CG:272:TYR:CE1	2.23	0.50
1:CJ:74:ASN:ND2	1:CJ:77:THR:OG1	2.44	0.50
1:CM:272:TYR:N	1:CM:272:TYR:CD1	2.79	0.50
1:CM:272:TYR:N	1:CM:272:TYR:HD1	2.09	0.50
1:CN:170:PHE:HD1	1:CN:389:MET:CE	2.23	0.50
1:AB:239:ILE:HG12	1:AB:326:ILE:CD1	2.41	0.50
1:AB:261:ASP:OD1	1:AB:261:ASP:O	2.30	0.50
1:AC:191:LEU:CD2	1:AC:191:LEU:N	2.73	0.50
1:AG:259:THR:HG21	1:AG:268:TYR:CZ	2.45	0.50
1:AH:272:TYR:CD2	1:CF:55:ARG:CZ	2.94	0.50
1:AI:239:ILE:HG12	1:AI:326:ILE:CD1	2.42	0.50
1:AK:16:ALA:O	1:AK:17:ASN:HB2	2.12	0.50
1:AS:189:PHE:CE1	1:AS:198:ARG:CG	2.95	0.50
1:BM:43:ALA:HB1	1:BM:158:GLU:HA	1.92	0.50
1:BN:263:ASN:O	1:BN:267:LYS:HG3	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CB:189:PHE:CE1	1:CB:198:ARG:HG2	2.46	0.50
1:CI:226:VAL:HG13	1:CI:228:GLY:H	1.76	0.50
1:CI:454:ASN:ND2	1:CI:456:ALA:H	2.08	0.50
1:CR:58:ALA:HB2	1:CR:102:GLY:HA3	1.94	0.50
1:AC:58:ALA:HB2	1:AC:102:GLY:HA3	1.94	0.50
1:AH:226:VAL:HG13	1:AH:228:GLY:H	1.76	0.50
1:AI:226:VAL:HG13	1:AI:228:GLY:H	1.76	0.50
1:AO:272:TYR:N	1:AO:272:TYR:HD1	2.10	0.50
1:AR:442:GLN:HE21	1:AS:412:PHE:HB2	1.76	0.50
1:AT:162:PHE:CD2	1:AT:163:LEU:HD13	2.47	0.50
1:BA:454:ASN:HD21	1:BA:456:ALA:HB3	1.77	0.50
1:BB:272:TYR:N	1:BB:272:TYR:CD1	2.79	0.50
1:BC:55:ARG:NE	1:BT:272:TYR:CE2	2.79	0.50
1:BO:189:PHE:HD2	1:BO:247:ILE:HD11	1.77	0.50
1:BS:250:TRP:HZ3	1:BS:272:TYR:CE1	2.27	0.50
1:CC:58:ALA:HB2	1:CC:102:GLY:HA3	1.94	0.50
1:CI:191:LEU:HD23	1:CI:191:LEU:N	2.17	0.50
1:CN:189:PHE:HD2	1:CN:247:ILE:CD1	2.24	0.50
1:CQ:67:VAL:HG23	1:CQ:135:LEU:HB2	1.94	0.50
1:CQ:232:THR:HB	1:CQ:334:VAL:CG2	2.42	0.50
1:AB:61:PHE:CD2	1:AB:243:ILE:HD11	2.47	0.50
1:AC:55:ARG:CZ	1:AT:272:TYR:CE2	2.95	0.50
1:AC:454:ASN:ND2	1:AC:456:ALA:H	2.06	0.50
1:AI:284:ARG:CG	1:AI:284:ARG:NH1	2.71	0.50
1:AK:189:PHE:HD2	1:AK:247:ILE:HD11	1.77	0.50
1:AN:189:PHE:CE2	1:AN:249:LEU:HD21	2.42	0.50
1:AO:79:ARG:HG3	1:AO:79:ARG:NH1	2.24	0.50
1:AO:189:PHE:CE1	1:AO:198:ARG:CG	2.95	0.50
1:BE:284:ARG:CG	1:BE:284:ARG:NH1	2.72	0.50
1:BI:58:ALA:HB2	1:BI:102:GLY:HA3	1.92	0.50
1:BS:398:GLY:HA3	1:BS:494:PHE:CD2	2.47	0.50
1:CD:442:GLN:NE2	1:CE:412:PHE:HB2	2.27	0.50
1:AA:226:VAL:HG13	1:AA:228:GLY:H	1.77	0.50
1:AB:272:TYR:N	1:AB:272:TYR:HD1	2.09	0.50
1:AF:272:TYR:HD2	1:BK:55:ARG:HD3	1.72	0.50
1:AJ:203:THR:CB	1:AJ:300:GLN:HG3	2.42	0.50
1:AL:226:VAL:HG13	1:AL:228:GLY:H	1.77	0.50
1:AN:14:CYS:HB3	1:AN:64:LEU:HD21	1.94	0.50
1:BD:170:PHE:HD1	1:BD:389:MET:CE	2.24	0.50
1:BD:250:TRP:HZ3	1:BD:272:TYR:CE1	2.27	0.50
1:BE:67:VAL:HG23	1:BE:135:LEU:HB2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:162:PHE:CD2	1:BF:163:LEU:HD13	2.47	0.50
1:BG:30:SER:O	1:BG:33:LYS:HB2	2.10	0.50
1:BP:67:VAL:HG23	1:BP:135:LEU:HB2	1.93	0.50
1:CB:191:LEU:CD2	1:CB:191:LEU:N	2.74	0.50
1:CO:16:ALA:O	1:CO:17:ASN:HB2	2.11	0.50
1:CQ:79:ARG:HH11	1:CQ:79:ARG:HG3	1.77	0.50
1:CQ:232:THR:HB	1:CQ:334:VAL:HG23	1.93	0.50
1:AE:58:ALA:HB2	1:AE:102:GLY:HA3	1.92	0.50
1:AE:67:VAL:HG23	1:AE:135:LEU:HB2	1.93	0.50
1:AE:197:LEU:HD12	1:AE:198:ARG:N	2.26	0.50
1:AF:398:GLY:HA3	1:AF:494:PHE:CD2	2.46	0.50
1:AK:454:ASN:ND2	1:AK:456:ALA:H	2.07	0.50
1:AL:272:TYR:HE2	1:CJ:55:ARG:NE	1.87	0.50
1:AQ:232:THR:HB	1:AQ:334:VAL:HG23	1.94	0.50
1:BE:239:ILE:HG12	1:BE:326:ILE:CD1	2.42	0.50
1:BF:170:PHE:HD1	1:BF:389:MET:CE	2.24	0.50
1:BF:272:TYR:CD2	1:CK:55:ARG:CZ	2.95	0.50
1:BH:15:GLN:HE21	1:BH:15:GLN:CA	2.09	0.50
1:BO:189:PHE:HE2	1:BO:249:LEU:CD2	2.24	0.50
1:BQ:58:ALA:HB2	1:BQ:102:GLY:HA3	1.94	0.50
1:BS:191:LEU:CD2	1:BS:191:LEU:N	2.75	0.50
1:CB:454:ASN:ND2	1:CB:456:ALA:H	2.08	0.50
1:CH:18:ARG:HG3	1:CH:19:TYR:N	2.26	0.50
1:CH:55:ARG:HD3	1:CK:272:TYR:CE2	2.47	0.50
1:CL:14:CYS:HB3	1:CL:64:LEU:HD21	1.93	0.50
1:AF:30:SER:O	1:AF:33:LYS:HB2	2.12	0.49
1:AL:454:ASN:ND2	1:AL:456:ALA:H	2.05	0.49
1:BE:189:PHE:HE1	1:BE:198:ARG:HG2	1.73	0.49
1:BF:189:PHE:HE1	1:BF:198:ARG:HG2	1.75	0.49
1:BN:14:CYS:H	1:BN:138:ASN:HD21	1.58	0.49
1:BO:74:ASN:ND2	1:BO:77:THR:OG1	2.45	0.49
1:BS:454:ASN:ND2	1:BS:456:ALA:H	2.03	0.49
1:BT:189:PHE:HD2	1:BT:247:ILE:HD11	1.77	0.49
1:CB:25:ILE:HG23	1:CB:152:LEU:HD11	1.94	0.49
1:CD:418:SER:HB3	1:CE:407:SER:HB3	1.93	0.49
1:CE:272:TYR:N	1:CE:272:TYR:CD1	2.80	0.49
1:CG:239:ILE:HD12	1:CG:275:GLU:HA	1.94	0.49
1:CH:454:ASN:ND2	1:CH:456:ALA:H	2.06	0.49
1:CP:189:PHE:HD2	1:CP:247:ILE:HD11	1.77	0.49
1:AI:55:ARG:HD3	1:AR:272:TYR:CE2	2.44	0.49
1:AK:79:ARG:HH11	1:AK:79:ARG:HG3	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:189:PHE:HE1	1:AO:198:ARG:CG	2.24	0.49
1:BJ:191:LEU:CD2	1:BJ:191:LEU:N	2.70	0.49
1:BJ:404:LEU:HD22	1:BJ:486:VAL:HG22	1.93	0.49
1:BQ:75:ARG:NH2	1:BQ:391:ALA:O	2.43	0.49
1:BS:189:PHE:HE2	1:BS:249:LEU:HD21	1.77	0.49
1:CB:74:ASN:ND2	1:CB:77:THR:OG1	2.44	0.49
1:CB:232:THR:HB	1:CB:334:VAL:HG23	1.93	0.49
1:CB:454:ASN:HD21	1:CB:456:ALA:HB3	1.77	0.49
1:CD:170:PHE:HD1	1:CD:389:MET:CE	2.25	0.49
1:CD:189:PHE:CE1	1:CD:198:ARG:CG	2.96	0.49
1:CH:189:PHE:HD2	1:CH:247:ILE:CD1	2.25	0.49
1:CL:203:THR:HB	1:CL:300:GLN:HG3	1.94	0.49
1:CN:67:VAL:HG23	1:CN:135:LEU:HB2	1.94	0.49
1:CQ:189:PHE:HE2	1:CQ:249:LEU:HD21	1.77	0.49
1:AB:189:PHE:HD2	1:AB:247:ILE:CD1	2.25	0.49
1:AC:79:ARG:HG3	1:AC:79:ARG:HH11	1.76	0.49
1:AE:16:ALA:O	1:AE:17:ASN:HB2	2.11	0.49
1:AE:398:GLY:HA3	1:AE:494:PHE:CD2	2.47	0.49
1:AG:258:THR:O	1:AG:258:THR:OG1	2.29	0.49
1:AG:275:GLU:O	1:AG:276:ASP:C	2.44	0.49
1:AN:58:ALA:HB2	1:AN:102:GLY:HA3	1.94	0.49
1:AP:239:ILE:HG12	1:AP:326:ILE:CD1	2.42	0.49
1:AQ:418:SER:HB3	1:AR:407:SER:HB3	1.94	0.49
1:BG:189:PHE:CE2	1:BG:249:LEU:HD21	2.44	0.49
1:BG:191:LEU:CD2	1:BG:191:LEU:N	2.75	0.49
1:BJ:454:ASN:ND2	1:BJ:456:ALA:H	2.07	0.49
1:BR:79:ARG:HG3	1:BR:79:ARG:NH1	2.22	0.49
1:CF:454:ASN:HD21	1:CF:456:ALA:HB3	1.78	0.49
1:CG:191:LEU:CD2	1:CG:191:LEU:N	2.75	0.49
1:CK:239:ILE:HD12	1:CK:275:GLU:HA	1.94	0.49
1:CN:30:SER:O	1:CN:33:LYS:HB2	2.11	0.49
1:CO:77:THR:O	1:CO:81:THR:HG23	2.11	0.49
1:CO:284:ARG:CG	1:CO:284:ARG:NH1	2.72	0.49
1:CO:288:HIS:HD2	1:CO:337:ASP:OD2	1.95	0.49
1:AA:75:ARG:NH2	1:AA:391:ALA:O	2.45	0.49
1:AB:30:SER:O	1:AB:33:LYS:HB2	2.12	0.49
1:AC:189:PHE:CE1	1:AC:198:ARG:CG	2.95	0.49
1:AG:74:ASN:ND2	1:AG:77:THR:OG1	2.46	0.49
1:AL:75:ARG:NH2	1:AL:391:ALA:O	2.46	0.49
1:AM:162:PHE:CD2	1:AM:163:LEU:HD13	2.48	0.49
1:AQ:454:ASN:HD21	1:AQ:456:ALA:HB3	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:30:SER:O	1:AR:33:LYS:HB2	2.12	0.49
1:BB:18:ARG:NH1	1:BB:18:ARG:HB2	2.27	0.49
1:BD:189:PHE:HD2	1:BD:247:ILE:HD11	1.78	0.49
1:BD:272:TYR:N	1:BD:272:TYR:HD1	2.10	0.49
1:BF:16:ALA:O	1:BF:17:ASN:HB2	2.11	0.49
1:BH:191:LEU:HD23	1:BH:191:LEU:N	2.19	0.49
1:BP:162:PHE:CD2	1:BP:163:LEU:HD13	2.47	0.49
1:CC:272:TYR:CD1	1:CC:272:TYR:N	2.78	0.49
1:CE:189:PHE:CE2	1:CE:249:LEU:HD21	2.45	0.49
1:CI:191:LEU:CD2	1:CI:191:LEU:N	2.73	0.49
1:CJ:16:ALA:O	1:CJ:17:ASN:HB2	2.11	0.49
1:CK:191:LEU:CD2	1:CK:191:LEU:N	2.75	0.49
1:CK:239:ILE:HG12	1:CK:326:ILE:CD1	2.42	0.49
1:CS:189:PHE:HE2	1:CS:249:LEU:HD21	1.77	0.49
1:AA:252:VAL:HG22	1:AA:253:SER:N	2.28	0.49
1:AB:262:TRP:HA	1:AB:265:LEU:HB3	1.95	0.49
1:AF:162:PHE:CD2	1:AF:163:LEU:HD13	2.47	0.49
1:AR:162:PHE:CD2	1:AR:163:LEU:HD13	2.46	0.49
1:AS:272:TYR:N	1:AS:272:TYR:CD1	2.80	0.49
1:AT:58:ALA:HB2	1:AT:102:GLY:HA3	1.93	0.49
1:BA:272:TYR:CD1	1:BA:272:TYR:N	2.80	0.49
1:BC:189:PHE:HE2	1:BC:249:LEU:CD2	2.26	0.49
1:BD:189:PHE:CE1	1:BD:198:ARG:CG	2.95	0.49
1:BI:55:ARG:NH1	1:BR:272:TYR:CD2	2.81	0.49
1:BJ:170:PHE:HD1	1:BJ:389:MET:CE	2.25	0.49
1:BP:55:ARG:HD3	1:CM:272:TYR:CD2	2.47	0.49
1:CD:191:LEU:HD23	1:CD:191:LEU:N	2.18	0.49
1:CF:189:PHE:HD2	1:CF:247:ILE:CD1	2.26	0.49
1:CH:442:GLN:HE21	1:CI:412:PHE:HB2	1.77	0.49
1:CJ:30:SER:O	1:CJ:33:LYS:HB2	2.12	0.49
1:CK:189:PHE:HE2	1:CK:249:LEU:CD2	2.25	0.49
1:CP:191:LEU:CD2	1:CP:191:LEU:N	2.73	0.49
1:CP:272:TYR:N	1:CP:272:TYR:HD1	2.10	0.49
1:CR:170:PHE:HD1	1:CR:389:MET:CE	2.25	0.49
1:CT:454:ASN:ND2	1:CT:456:ALA:H	2.06	0.49
1:AC:16:ALA:O	1:AC:17:ASN:HB2	2.13	0.49
1:AD:272:TYR:CD2	1:AS:55:ARG:CZ	2.96	0.49
1:AH:30:SER:O	1:AH:33:LYS:HB2	2.12	0.49
1:AH:170:PHE:HD1	1:AH:389:MET:HE2	1.77	0.49
1:AL:189:PHE:HE1	1:AL:198:ARG:CG	2.24	0.49
1:AO:284:ARG:CG	1:AO:284:ARG:NH1	2.71	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AQ:232:THR:HB	1:AQ:334:VAL:CG2	2.43	0.49
1:AQ:239:ILE:HD12	1:AQ:275:GLU:HA	1.94	0.49
1:BB:189:PHE:HD2	1:BB:247:ILE:CD1	2.24	0.49
1:BC:67:VAL:HG23	1:BC:135:LEU:HB2	1.94	0.49
1:BF:250:TRP:HZ3	1:BF:272:TYR:CE1	2.26	0.49
1:BI:162:PHE:CD2	1:BI:163:LEU:HD13	2.47	0.49
1:BS:170:PHE:HD1	1:BS:389:MET:CE	2.25	0.49
1:CI:398:GLY:HA3	1:CI:494:PHE:CD2	2.47	0.49
1:CO:18:ARG:HG3	1:CO:19:TYR:N	2.27	0.49
1:AC:55:ARG:NE	1:AT:272:TYR:HE2	2.02	0.49
1:AR:189:PHE:HD2	1:AR:247:ILE:CD1	2.26	0.49
1:BD:379:VAL:HG11	1:BD:381:MET:HE1	1.95	0.49
1:BJ:55:ARG:HD3	1:CL:272:TYR:CE2	2.46	0.49
1:CC:189:PHE:CE1	1:CC:198:ARG:CG	2.96	0.49
1:CF:170:PHE:HD1	1:CF:389:MET:CE	2.25	0.49
1:CG:189:PHE:HD2	1:CG:247:ILE:HD11	1.77	0.49
1:CL:454:ASN:HD21	1:CL:456:ALA:HB3	1.77	0.49
1:CM:189:PHE:CE1	1:CM:198:ARG:HG2	2.47	0.49
1:CM:191:LEU:CD2	1:CM:191:LEU:N	2.74	0.49
1:CP:398:GLY:HA3	1:CP:494:PHE:CD2	2.48	0.49
1:CR:454:ASN:HD21	1:CR:456:ALA:HB3	1.77	0.49
1:AG:189:PHE:HD2	1:AG:247:ILE:CD1	2.25	0.49
1:AG:267:LYS:C	1:AG:268:TYR:O	2.45	0.49
1:AG:270:GLY:C	1:AG:271:VAL:CG1	2.81	0.49
1:AH:189:PHE:CE2	1:AH:249:LEU:HD21	2.44	0.49
1:AI:191:LEU:HD23	1:AI:191:LEU:N	2.19	0.49
1:AI:250:TRP:CE3	1:AI:272:TYR:CE1	3.01	0.49
1:AJ:30:SER:O	1:AJ:33:LYS:HB2	2.13	0.49
1:AK:284:ARG:CG	1:AK:284:ARG:NH1	2.70	0.49
1:AM:189:PHE:CE2	1:AM:249:LEU:HD21	2.45	0.49
1:AQ:272:TYR:CE2	1:BL:55:ARG:HD3	2.48	0.49
1:AR:272:TYR:N	1:AR:272:TYR:CD1	2.80	0.49
1:BH:191:LEU:CD2	1:BH:191:LEU:N	2.76	0.49
1:BI:189:PHE:HD2	1:BI:247:ILE:HD11	1.76	0.49
1:BI:454:ASN:HD21	1:BI:456:ALA:HB3	1.78	0.49
1:BJ:58:ALA:HB2	1:BJ:102:GLY:HA3	1.94	0.49
1:BM:189:PHE:CE2	1:BM:249:LEU:HD21	2.42	0.49
1:BP:263:ASN:O	1:BP:267:LYS:HG3	2.13	0.49
1:BS:67:VAL:HG23	1:BS:135:LEU:HB2	1.95	0.49
1:CG:288:HIS:HD2	1:CG:337:ASP:OD2	1.95	0.49
1:AB:189:PHE:HE1	1:AB:198:ARG:HG2	1.74	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:67:VAL:HG23	1:AL:135:LEU:HB2	1.94	0.49
1:AT:28:MET:HE2	1:AT:152:LEU:HG	1.95	0.49
1:BD:272:TYR:N	1:BD:272:TYR:CD1	2.81	0.49
1:BJ:272:TYR:CE2	1:BQ:55:ARG:HD3	2.48	0.49
1:BO:272:TYR:HD2	1:BR:55:ARG:HD3	1.78	0.49
1:BQ:191:LEU:CD2	1:BQ:191:LEU:N	2.76	0.49
1:BR:75:ARG:NH2	1:BR:391:ALA:O	2.46	0.49
1:CE:14:CYS:H	1:CE:138:ASN:ND2	2.11	0.49
1:CF:58:ALA:HB2	1:CF:102:GLY:HA3	1.94	0.49
1:CF:189:PHE:CE1	1:CF:198:ARG:HG2	2.47	0.49
1:CM:189:PHE:HD2	1:CM:247:ILE:CD1	2.25	0.49
1:CN:454:ASN:HD21	1:CN:456:ALA:HB3	1.77	0.49
1:CO:189:PHE:HE2	1:CO:249:LEU:HD21	1.78	0.49
1:CO:393:HIS:CG	1:CO:496:PHE:HB3	2.48	0.49
1:CO:454:ASN:HD22	1:CO:456:ALA:N	2.06	0.49
1:CR:454:ASN:ND2	1:CR:456:ALA:H	2.02	0.49
1:CS:74:ASN:ND2	1:CS:77:THR:OG1	2.46	0.49
1:CT:299:SER:O	1:CT:302:ASP:HB2	2.13	0.49
1:AG:162:PHE:CD2	1:AG:163:LEU:HD13	2.48	0.49
1:AS:58:ALA:HB2	1:AS:102:GLY:HA3	1.95	0.49
1:AS:232:THR:HB	1:AS:334:VAL:CG2	2.43	0.49
1:AT:170:PHE:HD1	1:AT:389:MET:CE	2.25	0.49
1:BA:454:ASN:ND2	1:BA:456:ALA:H	2.05	0.49
1:BB:272:TYR:N	1:BB:272:TYR:HD1	2.11	0.49
1:BC:404:LEU:HD22	1:BC:486:VAL:HG22	1.95	0.49
1:BE:272:TYR:CD2	1:BM:55:ARG:HD3	2.47	0.49
1:BE:398:GLY:HA3	1:BE:494:PHE:CD2	2.48	0.49
1:BK:189:PHE:HE2	1:BK:249:LEU:HD21	1.78	0.49
1:CA:239:ILE:HG12	1:CA:326:ILE:CD1	2.43	0.49
1:CC:454:ASN:ND2	1:CC:456:ALA:H	2.06	0.49
1:CL:170:PHE:HD1	1:CL:389:MET:HE2	1.78	0.49
1:CN:191:LEU:HD23	1:CN:191:LEU:N	2.19	0.49
1:AB:261:ASP:O	1:AB:261:ASP:CG	2.51	0.48
1:AH:189:PHE:HD2	1:AH:247:ILE:CD1	2.26	0.48
1:AO:18:ARG:HG3	1:AO:19:TYR:N	2.28	0.48
1:BB:191:LEU:HD23	1:BB:191:LEU:N	2.17	0.48
1:BH:239:ILE:HG12	1:BH:326:ILE:CD1	2.42	0.48
1:BJ:272:TYR:CD2	1:BQ:55:ARG:CD	2.95	0.48
1:BM:191:LEU:CD2	1:BM:191:LEU:N	2.74	0.48
1:BP:272:TYR:N	1:BP:272:TYR:HD1	2.11	0.48
1:CE:250:TRP:HZ3	1:CE:272:TYR:CE1	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CI:16:ALA:O	1:CI:17:ASN:HB2	2.13	0.48
1:CO:272:TYR:CD2	1:CR:55:ARG:NH1	2.81	0.48
1:CR:30:SER:O	1:CR:33:LYS:HB2	2.12	0.48
1:CS:272:TYR:N	1:CS:272:TYR:HD1	2.11	0.48
1:CT:189:PHE:HE2	1:CT:249:LEU:HD21	1.78	0.48
1:AB:162:PHE:CD2	1:AB:163:LEU:HD13	2.48	0.48
1:AB:262:TRP:N	1:AB:262:TRP:HD1	2.11	0.48
1:AD:30:SER:O	1:AD:33:LYS:HB2	2.13	0.48
1:AH:443:LYS:HE2	1:AI:444:LEU:HB2	1.95	0.48
1:AQ:170:PHE:HD1	1:AQ:389:MET:CE	2.25	0.48
1:BC:226:VAL:HG13	1:BC:228:GLY:H	1.77	0.48
1:BD:43:ALA:HB1	1:BD:158:GLU:HA	1.94	0.48
1:BF:191:LEU:CD2	1:BF:191:LEU:N	2.74	0.48
1:BK:43:ALA:HB1	1:BK:158:GLU:HA	1.95	0.48
1:BN:454:ASN:HD21	1:BN:456:ALA:HB3	1.78	0.48
1:BP:189:PHE:HE2	1:BP:249:LEU:HD21	1.79	0.48
1:BR:170:PHE:HD1	1:BR:389:MET:HE2	1.78	0.48
1:CD:440:ALA:HB3	1:CE:444:LEU:HD13	1.95	0.48
1:CH:189:PHE:CE2	1:CH:249:LEU:HD21	2.45	0.48
1:CJ:43:ALA:HB1	1:CJ:158:GLU:HA	1.95	0.48
1:CK:379:VAL:HG11	1:CK:381:MET:HE1	1.95	0.48
1:CM:398:GLY:HA3	1:CM:494:PHE:CD2	2.48	0.48
1:CT:398:GLY:HA3	1:CT:494:PHE:CD2	2.47	0.48
1:AA:55:ARG:CZ	1:CC:272:TYR:CE2	2.96	0.48
1:AD:272:TYR:CE2	1:AS:55:ARG:CZ	2.96	0.48
1:AT:191:LEU:CD2	1:AT:191:LEU:N	2.76	0.48
1:BG:226:VAL:HG13	1:BG:228:GLY:H	1.78	0.48
1:BH:67:VAL:HG23	1:BH:135:LEU:HB2	1.96	0.48
1:BR:74:ASN:ND2	1:BR:77:THR:OG1	2.46	0.48
1:CB:263:ASN:O	1:CB:267:LYS:HG3	2.12	0.48
1:CD:74:ASN:ND2	1:CD:77:THR:OG1	2.46	0.48
1:CD:272:TYR:HD2	1:CS:55:ARG:HD3	1.75	0.48
1:CD:393:HIS:CG	1:CD:496:PHE:HB3	2.48	0.48
1:AB:67:VAL:HG23	1:AB:135:LEU:HB2	1.96	0.48
1:AG:259:THR:HG22	1:AG:268:TYR:OH	2.14	0.48
1:AJ:35:VAL:HG22	1:BK:38:GLU:HB2	1.94	0.48
1:AJ:239:ILE:HD12	1:AJ:275:GLU:HA	1.94	0.48
1:AN:232:THR:HB	1:AN:334:VAL:HG23	1.96	0.48
1:AO:454:ASN:ND2	1:AO:456:ALA:H	2.06	0.48
1:AP:22:THR:OG1	1:AP:131:HIS:CD2	2.58	0.48
1:BA:67:VAL:HG23	1:BA:135:LEU:HB2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:170:PHE:HD1	1:BA:389:MET:CE	2.26	0.48
1:BA:272:TYR:N	1:BA:272:TYR:HD1	2.12	0.48
1:BF:454:ASN:HD21	1:BF:456:ALA:HB3	1.78	0.48
1:BH:189:PHE:CE2	1:BH:249:LEU:HD21	2.44	0.48
1:BN:74:ASN:ND2	1:BN:77:THR:OG1	2.45	0.48
1:BT:16:ALA:O	1:BT:17:ASN:HB2	2.14	0.48
1:CA:191:LEU:CD2	1:CA:191:LEU:N	2.74	0.48
1:CD:272:TYR:N	1:CD:272:TYR:CD1	2.82	0.48
1:CH:162:PHE:CD2	1:CH:163:LEU:HD13	2.49	0.48
1:CH:239:ILE:HG12	1:CH:326:ILE:CD1	2.42	0.48
1:CI:189:PHE:HD2	1:CI:247:ILE:CD1	2.25	0.48
1:CK:170:PHE:HD1	1:CK:389:MET:CE	2.26	0.48
1:CM:239:ILE:HD12	1:CM:275:GLU:HA	1.94	0.48
1:CS:11:PRO:HG2	1:CS:18:ARG:CD	2.43	0.48
1:CT:272:TYR:N	1:CT:272:TYR:CD1	2.82	0.48
1:AA:250:TRP:HZ3	1:AA:272:TYR:CE1	2.28	0.48
1:AB:189:PHE:CE1	1:AB:198:ARG:HG2	2.49	0.48
1:AG:67:VAL:HG23	1:AG:135:LEU:HB2	1.96	0.48
1:AK:55:ARG:CD	1:CF:272:TYR:CD2	2.94	0.48
1:AK:440:ALA:HB3	1:AL:444:LEU:HD13	1.96	0.48
1:AP:272:TYR:CD2	1:BE:55:ARG:CD	2.88	0.48
1:AS:284:ARG:CG	1:AS:284:ARG:NH1	2.70	0.48
1:AT:189:PHE:HD2	1:AT:247:ILE:HD11	1.78	0.48
1:BB:234:ARG:HG2	1:BB:280:GLU:HG2	1.95	0.48
1:BE:263:ASN:HD22	1:BM:5:ARG:HD3	1.78	0.48
1:BG:272:TYR:N	1:BG:272:TYR:CD1	2.82	0.48
1:BO:189:PHE:HE1	1:BO:198:ARG:CG	2.24	0.48
1:BO:239:ILE:HG12	1:BO:326:ILE:CD1	2.44	0.48
1:BT:239:ILE:HG12	1:BT:326:ILE:CD1	2.43	0.48
1:CC:30:SER:O	1:CC:33:LYS:HB2	2.13	0.48
1:CH:284:ARG:CG	1:CH:284:ARG:NH1	2.73	0.48
1:CJ:226:VAL:HG13	1:CJ:228:GLY:H	1.78	0.48
1:CN:189:PHE:HD2	1:CN:247:ILE:HD11	1.77	0.48
1:CO:162:PHE:CD2	1:CO:163:LEU:HD13	2.47	0.48
1:CO:189:PHE:HD2	1:CO:247:ILE:HD11	1.78	0.48
1:CQ:170:PHE:HD1	1:CQ:389:MET:CE	2.26	0.48
1:CR:191:LEU:HD23	1:CR:191:LEU:N	2.19	0.48
1:AO:14:CYS:H	1:AO:138:ASN:HD21	1.60	0.48
1:AO:289:ARG:NH1	1:AO:338:LEU:O	2.47	0.48
1:AQ:250:TRP:HZ3	1:AQ:272:TYR:CE1	2.26	0.48
1:BA:30:SER:O	1:BA:33:LYS:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:75:ARG:NH2	1:BA:391:ALA:O	2.44	0.48
1:BB:5:ARG:HD3	1:CB:263:ASN:HD22	1.79	0.48
1:BC:252:VAL:HG22	1:BC:253:SER:N	2.28	0.48
1:BD:189:PHE:HE2	1:BD:249:LEU:HD21	1.79	0.48
1:BE:250:TRP:HZ3	1:BE:272:TYR:CE1	2.29	0.48
1:BN:58:ALA:HB2	1:BN:102:GLY:HA3	1.96	0.48
1:BO:75:ARG:NH2	1:BO:391:ALA:O	2.46	0.48
1:BQ:189:PHE:HD2	1:BQ:247:ILE:HD11	1.79	0.48
1:BS:189:PHE:HD2	1:BS:247:ILE:HD11	1.79	0.48
1:CC:162:PHE:CD2	1:CC:163:LEU:HD13	2.49	0.48
1:CL:189:PHE:HD2	1:CL:247:ILE:HD11	1.77	0.48
1:CP:272:TYR:N	1:CP:272:TYR:CD1	2.81	0.48
1:CR:189:PHE:HD2	1:CR:247:ILE:CD1	2.25	0.48
1:AB:191:LEU:CD2	1:AB:191:LEU:N	2.72	0.48
1:AE:55:ARG:HD3	1:CP:272:TYR:HD2	1.77	0.48
1:AG:276:ASP:OD1	1:AG:276:ASP:N	2.30	0.48
1:AG:454:ASN:ND2	1:AG:456:ALA:H	2.08	0.48
1:AH:170:PHE:HD1	1:AH:389:MET:CE	2.26	0.48
1:AJ:250:TRP:CE3	1:AJ:272:TYR:CE1	3.01	0.48
1:AJ:398:GLY:HA3	1:AJ:494:PHE:CD2	2.48	0.48
1:AJ:404:LEU:HD22	1:AJ:486:VAL:HG22	1.95	0.48
1:AK:418:SER:HB3	1:AL:407:SER:HB3	1.94	0.48
1:BB:14:CYS:H	1:BB:138:ASN:ND2	2.12	0.48
1:BF:440:ALA:CB	1:BG:444:LEU:HD13	2.43	0.48
1:BN:189:PHE:HD2	1:BN:247:ILE:CD1	2.26	0.48
1:BP:272:TYR:CD2	1:CE:55:ARG:CD	2.93	0.48
1:BS:239:ILE:HG12	1:BS:326:ILE:CD1	2.44	0.48
1:CD:188:PHE:C	1:CD:189:PHE:HD1	2.17	0.48
1:CG:272:TYR:N	1:CG:272:TYR:CD1	2.82	0.48
1:CI:144:ALA:CB	1:CR:191:LEU:O	2.61	0.48
1:CJ:189:PHE:HD2	1:CJ:247:ILE:CD1	2.26	0.48
1:CK:16:ALA:O	1:CK:17:ASN:HB2	2.14	0.48
1:CS:234:ARG:HG2	1:CS:280:GLU:HG2	1.94	0.48
1:AB:239:ILE:HD12	1:AB:275:GLU:HA	1.96	0.48
1:AE:250:TRP:HZ3	1:AE:272:TYR:CE1	2.28	0.48
1:AE:272:TYR:HD2	1:AM:55:ARG:HD3	1.78	0.48
1:AG:191:LEU:CD2	1:AG:191:LEU:N	2.74	0.48
1:AL:189:PHE:HD2	1:AL:247:ILE:HD11	1.79	0.48
1:AO:189:PHE:HD2	1:AO:247:ILE:HD11	1.79	0.48
1:AP:404:LEU:HD22	1:AP:486:VAL:HG22	1.94	0.48
1:AQ:191:LEU:CD2	1:AQ:191:LEU:N	2.75	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AQ:393:HIS:CG	1:AQ:496:PHE:HB3	2.49	0.48
1:AQ:442:GLN:NE2	1:AR:412:PHE:HB2	2.29	0.48
1:AR:189:PHE:CE1	1:AR:198:ARG:HG2	2.49	0.48
1:AS:234:ARG:HG2	1:AS:280:GLU:HG2	1.96	0.48
1:AT:189:PHE:HE2	1:AT:249:LEU:HD21	1.79	0.48
1:BF:412:PHE:HB2	1:BJ:442:GLN:HE21	1.79	0.48
1:BH:43:ALA:HB1	1:BH:158:GLU:HA	1.95	0.48
1:BK:58:ALA:HB2	1:BK:102:GLY:HA3	1.95	0.48
1:BQ:250:TRP:HZ3	1:BQ:272:TYR:CE1	2.27	0.48
1:BS:379:VAL:HG11	1:BS:381:MET:HE1	1.95	0.48
1:CF:232:THR:HB	1:CF:334:VAL:CG2	2.43	0.48
1:CG:14:CYS:H	1:CG:138:ASN:ND2	2.10	0.48
1:CH:58:ALA:HB2	1:CH:102:GLY:HA3	1.96	0.48
1:CJ:162:PHE:CD2	1:CJ:163:LEU:HD13	2.49	0.48
1:CJ:379:VAL:HG11	1:CJ:381:MET:HE1	1.95	0.48
1:AA:272:TYR:N	1:AA:272:TYR:CD1	2.82	0.48
1:AC:239:ILE:HD12	1:AC:275:GLU:HA	1.94	0.48
1:AD:272:TYR:HD1	1:AD:272:TYR:N	2.12	0.48
1:AF:55:ARG:HD3	1:BH:272:TYR:HD2	1.77	0.48
1:AL:79:ARG:CG	1:AL:79:ARG:NH1	2.71	0.48
1:AP:444:LEU:HD13	1:AT:440:ALA:HB3	1.95	0.48
1:AT:284:ARG:CG	1:AT:284:ARG:NH1	2.73	0.48
1:BB:454:ASN:HD21	1:BB:456:ALA:HB3	1.77	0.48
1:BD:16:ALA:O	1:BD:17:ASN:HB2	2.14	0.48
1:BD:38:GLU:HB2	1:BM:35:VAL:HG22	1.96	0.48
1:BD:201:GLY:HA3	1:BD:300:GLN:HG2	1.96	0.48
1:BE:11:PRO:HG2	1:BE:18:ARG:HD3	1.95	0.48
1:BF:239:ILE:HG12	1:BF:326:ILE:CD1	2.44	0.48
1:BH:170:PHE:HD1	1:BH:389:MET:HE2	1.79	0.48
1:BN:239:ILE:HG12	1:BN:326:ILE:CD1	2.44	0.48
1:BO:189:PHE:HE2	1:BO:249:LEU:HD21	1.79	0.48
1:BO:404:LEU:HD22	1:BO:486:VAL:HG22	1.96	0.48
1:BR:440:ALA:CB	1:BS:444:LEU:HD13	2.44	0.48
1:BS:232:THR:HB	1:BS:334:VAL:HG23	1.96	0.48
1:BT:162:PHE:CD2	1:BT:163:LEU:HD13	2.48	0.48
1:CA:398:GLY:HA3	1:CA:494:PHE:CD2	2.49	0.48
1:CD:272:TYR:N	1:CD:272:TYR:HD1	2.11	0.48
1:CH:189:PHE:CE1	1:CH:198:ARG:HG2	2.49	0.48
1:CH:454:ASN:HD21	1:CH:456:ALA:HB3	1.79	0.48
1:CN:10:ILE:HD13	1:CN:20:LEU:HD13	1.95	0.48
1:CQ:189:PHE:CE1	1:CQ:198:ARG:CG	2.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CR:237:VAL:HG23	1:CR:279:PHE:CD2	2.48	0.48
1:AD:189:PHE:HD2	1:AD:247:ILE:HD11	1.79	0.48
1:AF:79:ARG:CG	1:AF:79:ARG:NH1	2.72	0.48
1:AH:25:ILE:HG23	1:AH:152:LEU:HD11	1.96	0.48
1:AI:170:PHE:HD1	1:AI:389:MET:HE2	1.79	0.48
1:AI:263:ASN:O	1:AI:267:LYS:HG3	2.13	0.48
1:AM:252:VAL:HG22	1:AM:253:SER:N	2.29	0.48
1:BB:239:ILE:HG23	1:BB:324:LEU:HD21	1.96	0.48
1:BF:454:ASN:ND2	1:BF:456:ALA:H	2.05	0.48
1:BN:239:ILE:HD12	1:BN:275:GLU:HA	1.95	0.48
1:BO:170:PHE:HD1	1:BO:389:MET:HE2	1.79	0.48
1:BR:232:THR:HB	1:BR:334:VAL:HG23	1.96	0.48
1:CA:25:ILE:HG23	1:CA:152:LEU:HD11	1.96	0.48
1:CA:442:GLN:HE21	1:CB:412:PHE:HB2	1.78	0.48
1:CB:189:PHE:HD2	1:CB:247:ILE:CD1	2.27	0.48
1:CC:189:PHE:HE2	1:CC:249:LEU:CD2	2.26	0.48
1:CC:239:ILE:HG12	1:CC:326:ILE:CD1	2.44	0.48
1:CI:272:TYR:N	1:CI:272:TYR:CD1	2.81	0.48
1:CJ:284:ARG:CG	1:CJ:284:ARG:NH1	2.74	0.48
1:CJ:398:GLY:HA3	1:CJ:494:PHE:CD2	2.49	0.48
1:CN:58:ALA:HB2	1:CN:102:GLY:HA3	1.96	0.48
1:CT:454:ASN:HD21	1:CT:456:ALA:HB3	1.79	0.48
1:AD:58:ALA:HB2	1:AD:102:GLY:HA3	1.96	0.47
1:AK:272:TYR:N	1:AK:272:TYR:CD1	2.81	0.47
1:AN:191:LEU:CD2	1:AN:191:LEU:N	2.77	0.47
1:AO:272:TYR:N	1:AO:272:TYR:CD1	2.81	0.47
1:BC:55:ARG:CD	1:BT:272:TYR:CE2	2.96	0.47
1:BC:237:VAL:HG23	1:BC:279:PHE:CD2	2.49	0.47
1:BC:250:TRP:CE3	1:BC:272:TYR:CE1	3.02	0.47
1:BH:263:ASN:O	1:BH:267:LYS:HG3	2.14	0.47
1:BJ:393:HIS:CG	1:BJ:496:PHE:HB3	2.49	0.47
1:BQ:79:ARG:HH11	1:BQ:79:ARG:HG3	1.79	0.47
1:BS:170:PHE:HD1	1:BS:389:MET:HE2	1.79	0.47
1:CB:20:LEU:HB2	1:CB:132:PHE:O	2.14	0.47
1:CF:379:VAL:HG11	1:CF:381:MET:HE1	1.95	0.47
1:CG:189:PHE:HD2	1:CG:247:ILE:CD1	2.26	0.47
1:CM:30:SER:O	1:CM:33:LYS:HB2	2.14	0.47
1:CP:162:PHE:CD2	1:CP:163:LEU:HD13	2.48	0.47
1:AB:55:ARG:NE	1:BB:272:TYR:CE2	2.82	0.47
1:AE:203:THR:CB	1:AE:300:GLN:HG3	2.43	0.47
1:AG:272:TYR:O	1:AG:273:VAL:HG22	2.10	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:201:GLY:HA3	1:AH:300:GLN:HG2	1.96	0.47
1:AH:454:ASN:ND2	1:AH:456:ALA:H	2.08	0.47
1:AN:379:VAL:HG11	1:AN:381:MET:HE1	1.96	0.47
1:AQ:379:VAL:HG11	1:AQ:381:MET:HE1	1.96	0.47
1:AR:263:ASN:O	1:AR:267:LYS:HG3	2.13	0.47
1:BG:58:ALA:HB2	1:BG:102:GLY:HA3	1.95	0.47
1:BG:272:TYR:CD2	1:CG:55:ARG:HD3	2.48	0.47
1:BH:454:ASN:HD21	1:BH:456:ALA:HB3	1.78	0.47
1:BJ:189:PHE:CE2	1:BJ:249:LEU:HD21	2.47	0.47
1:BO:272:TYR:CD2	1:BR:55:ARG:NE	2.82	0.47
1:BT:5:ARG:HD3	1:CA:263:ASN:HD22	1.78	0.47
1:CB:30:SER:O	1:CB:33:LYS:HB2	2.14	0.47
1:CE:189:PHE:HD2	1:CE:247:ILE:CD1	2.27	0.47
1:CE:232:THR:HB	1:CE:334:VAL:HG23	1.95	0.47
1:CI:379:VAL:CG1	1:CI:380:SER:N	2.70	0.47
1:CL:226:VAL:HG13	1:CL:228:GLY:H	1.79	0.47
1:CL:252:VAL:HG22	1:CL:253:SER:N	2.28	0.47
1:CO:454:ASN:ND2	1:CO:456:ALA:H	2.09	0.47
1:CR:86:PRO:O	1:CR:88:TYR:C	2.52	0.47
1:CR:239:ILE:HD12	1:CR:275:GLU:HA	1.96	0.47
1:AB:226:VAL:HG13	1:AB:228:GLY:H	1.80	0.47
1:AG:254:GLU:OE1	1:AG:259:THR:HG22	2.14	0.47
1:AH:61:PHE:CZ	1:AK:243:ILE:HD13	2.49	0.47
1:AI:191:LEU:CD2	1:AI:191:LEU:N	2.76	0.47
1:AI:414:LYS:HA	1:AJ:411:GLU:HB3	1.95	0.47
1:AJ:18:ARG:HD2	1:AJ:19:TYR:O	2.13	0.47
1:AK:442:GLN:HG2	1:AL:412:PHE:CD1	2.49	0.47
1:AM:239:ILE:HG12	1:AM:326:ILE:CD1	2.44	0.47
1:AO:300:GLN:HE21	1:AO:300:GLN:HB2	1.47	0.47
1:AP:79:ARG:HH11	1:AP:79:ARG:CG	2.27	0.47
1:AP:454:ASN:HD21	1:AP:456:ALA:HB3	1.78	0.47
1:BB:79:ARG:HH11	1:BB:79:ARG:CG	2.26	0.47
1:BF:284:ARG:CG	1:BF:284:ARG:NH1	2.70	0.47
1:BH:454:ASN:ND2	1:BH:456:ALA:H	2.04	0.47
1:BI:393:HIS:CG	1:BI:496:PHE:HB3	2.50	0.47
1:BN:237:VAL:HG23	1:BN:279:PHE:CD2	2.49	0.47
1:CH:170:PHE:HD1	1:CH:389:MET:CE	2.27	0.47
1:CJ:237:VAL:HG23	1:CJ:279:PHE:CD2	2.50	0.47
1:CK:398:GLY:HA3	1:CK:494:PHE:CD2	2.48	0.47
1:CP:30:SER:O	1:CP:33:LYS:HB2	2.14	0.47
1:CR:404:LEU:HD22	1:CR:486:VAL:HG22	1.94	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:191:LEU:CD2	1:AD:191:LEU:N	2.74	0.47
1:AF:237:VAL:HG23	1:AF:279:PHE:CD2	2.49	0.47
1:AI:379:VAL:HG11	1:AI:381:MET:HE1	1.96	0.47
1:AJ:189:PHE:CE2	1:AJ:249:LEU:HD21	2.46	0.47
1:AK:162:PHE:CD2	1:AK:163:LEU:HD13	2.49	0.47
1:BA:162:PHE:CD2	1:BA:163:LEU:HD13	2.49	0.47
1:BC:300:GLN:HE21	1:BC:300:GLN:HB2	1.55	0.47
1:BF:272:TYR:CE2	1:CK:55:ARG:CZ	2.97	0.47
1:BI:74:ASN:ND2	1:BI:77:THR:OG1	2.48	0.47
1:BJ:55:ARG:HD3	1:CL:272:TYR:HD2	1.78	0.47
1:BM:170:PHE:HD1	1:BM:389:MET:CE	2.27	0.47
1:BQ:232:THR:HB	1:BQ:334:VAL:HG23	1.96	0.47
1:CA:454:ASN:HD21	1:CA:456:ALA:HB3	1.79	0.47
1:CA:454:ASN:ND2	1:CA:456:ALA:H	2.08	0.47
1:CE:263:ASN:HD22	1:CM:5:ARG:HD3	1.79	0.47
1:CH:189:PHE:HD2	1:CH:247:ILE:HD11	1.79	0.47
1:CI:61:PHE:CD2	1:CI:243:ILE:HD11	2.49	0.47
1:CJ:239:ILE:HG12	1:CJ:326:ILE:CD1	2.43	0.47
1:CS:379:VAL:HG11	1:CS:381:MET:HE1	1.96	0.47
1:AD:74:ASN:ND2	1:AD:77:THR:OG1	2.48	0.47
1:AF:189:PHE:HD2	1:AF:247:ILE:CD1	2.27	0.47
1:AF:407:SER:HB3	1:AJ:418:SER:HB3	1.96	0.47
1:AH:18:ARG:HG2	1:AH:20:LEU:HD23	1.96	0.47
1:AI:272:TYR:N	1:AI:272:TYR:CD1	2.83	0.47
1:AJ:55:ARG:HD3	1:BL:272:TYR:HD2	1.78	0.47
1:AJ:454:ASN:ND2	1:AJ:456:ALA:H	2.09	0.47
1:AP:398:GLY:HA3	1:AP:494:PHE:CD2	2.49	0.47
1:AS:239:ILE:HG12	1:AS:326:ILE:CD1	2.44	0.47
1:BB:404:LEU:HD22	1:BB:486:VAL:HG22	1.95	0.47
1:BC:284:ARG:CG	1:BC:284:ARG:NH1	2.72	0.47
1:BC:393:HIS:CG	1:BC:496:PHE:HB3	2.49	0.47
1:BD:162:PHE:CD2	1:BD:163:LEU:HD13	2.49	0.47
1:BD:191:LEU:HD23	1:BD:191:LEU:N	2.17	0.47
1:BD:239:ILE:HG12	1:BD:326:ILE:CD1	2.45	0.47
1:BE:170:PHE:HD1	1:BE:389:MET:CE	2.28	0.47
1:BG:162:PHE:CD2	1:BG:163:LEU:HD13	2.50	0.47
1:BG:239:ILE:HG12	1:BG:326:ILE:CD1	2.45	0.47
1:BM:189:PHE:HD2	1:BM:247:ILE:CD1	2.28	0.47
1:BP:30:SER:O	1:BP:33:LYS:HB2	2.13	0.47
1:BR:170:PHE:HD1	1:BR:389:MET:CE	2.27	0.47
1:CA:189:PHE:HD2	1:CA:247:ILE:HD11	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CB:58:ALA:HB2	1:CB:102:GLY:HA3	1.96	0.47
1:CB:162:PHE:CD2	1:CB:163:LEU:HD13	2.50	0.47
1:CE:393:HIS:CG	1:CE:496:PHE:HB3	2.49	0.47
1:CK:189:PHE:HE1	1:CK:198:ARG:CG	2.27	0.47
1:CN:75:ARG:NH2	1:CN:391:ALA:O	2.47	0.47
1:CO:203:THR:HB	1:CO:300:GLN:HG3	1.96	0.47
1:AC:272:TYR:HE2	1:BA:55:ARG:NE	2.12	0.47
1:AG:226:VAL:HG13	1:AG:228:GLY:H	1.80	0.47
1:AG:258:THR:O	1:AG:259:THR:O	2.33	0.47
1:AL:243:ILE:HD13	1:CJ:61:PHE:CZ	2.48	0.47
1:AS:189:PHE:HD2	1:AS:247:ILE:HD11	1.78	0.47
1:BE:454:ASN:ND2	1:BE:456:ALA:H	2.08	0.47
1:BF:189:PHE:HD2	1:BF:247:ILE:CD1	2.28	0.47
1:BH:234:ARG:HG2	1:BH:280:GLU:HG2	1.97	0.47
1:BQ:454:ASN:ND2	1:BQ:456:ALA:H	2.09	0.47
1:BS:393:HIS:CG	1:BS:496:PHE:HB3	2.50	0.47
1:BT:239:ILE:HD12	1:BT:275:GLU:HA	1.96	0.47
1:CA:234:ARG:HG2	1:CA:280:GLU:HG2	1.97	0.47
1:CB:239:ILE:HD12	1:CB:275:GLU:HA	1.97	0.47
1:CE:58:ALA:HB2	1:CE:102:GLY:HA3	1.96	0.47
1:CE:232:THR:HB	1:CE:334:VAL:CG2	2.45	0.47
1:CG:58:ALA:HB2	1:CG:102:GLY:HA3	1.97	0.47
1:CH:79:ARG:HH11	1:CH:79:ARG:CG	2.19	0.47
1:CJ:393:HIS:CG	1:CJ:496:PHE:HB3	2.50	0.47
1:CM:232:THR:HB	1:CM:334:VAL:CG2	2.45	0.47
1:CS:272:TYR:N	1:CS:272:TYR:CD1	2.81	0.47
1:AE:162:PHE:CD2	1:AE:163:LEU:HD13	2.50	0.47
1:AE:189:PHE:HD2	1:AE:247:ILE:HD11	1.80	0.47
1:AE:189:PHE:CE2	1:AE:249:LEU:HD21	2.43	0.47
1:AF:226:VAL:HG13	1:AF:228:GLY:H	1.78	0.47
1:AG:437:HIS:CE1	1:AH:405:GLN:NE2	2.83	0.47
1:AI:30:SER:O	1:AI:33:LYS:HB2	2.14	0.47
1:AI:162:PHE:CD2	1:AI:163:LEU:HD13	2.49	0.47
1:AI:234:ARG:HG2	1:AI:280:GLU:HG2	1.97	0.47
1:AK:191:LEU:CD2	1:AK:191:LEU:N	2.74	0.47
1:AL:170:PHE:HD1	1:AL:389:MET:CE	2.28	0.47
1:AM:170:PHE:HD1	1:AM:389:MET:HE2	1.80	0.47
1:AN:272:TYR:N	1:AN:272:TYR:CD1	2.83	0.47
1:AQ:162:PHE:CD2	1:AQ:163:LEU:HD13	2.50	0.47
1:AQ:234:ARG:HG2	1:AQ:280:GLU:HG2	1.94	0.47
1:AR:272:TYR:N	1:AR:272:TYR:HD1	2.12	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AS:189:PHE:HE2	1:AS:249:LEU:HD21	1.80	0.47
1:AS:226:VAL:HG13	1:AS:228:GLY:H	1.80	0.47
1:BA:43:ALA:HB1	1:BA:158:GLU:HA	1.95	0.47
1:BB:55:ARG:HD3	1:CB:272:TYR:CD2	2.49	0.47
1:BE:454:ASN:HD21	1:BE:456:ALA:HB3	1.79	0.47
1:BF:288:HIS:HD2	1:BF:337:ASP:OD2	1.97	0.47
1:BH:30:SER:O	1:BH:33:LYS:HB2	2.14	0.47
1:BH:189:PHE:HD2	1:BH:247:ILE:CD1	2.27	0.47
1:BJ:189:PHE:HD2	1:BJ:247:ILE:HD11	1.80	0.47
1:BK:30:SER:O	1:BK:33:LYS:HB2	2.15	0.47
1:BL:232:THR:HB	1:BL:334:VAL:CG2	2.45	0.47
1:BR:239:ILE:HD12	1:BR:275:GLU:HA	1.96	0.47
1:BT:189:PHE:CE2	1:BT:249:LEU:HD21	2.49	0.47
1:BT:256:ASN:HD22	1:BT:302:ASP:HA	1.79	0.47
1:CA:171:ASP:HA	1:CA:172:PRO:HD3	1.77	0.47
1:CB:252:VAL:HG22	1:CB:253:SER:N	2.30	0.47
1:CI:272:TYR:CD2	1:CO:55:ARG:CZ	2.97	0.47
1:CI:393:HIS:CG	1:CI:496:PHE:HB3	2.50	0.47
1:CK:263:ASN:O	1:CK:267:LYS:HG3	2.15	0.47
1:CK:442:GLN:HE21	1:CL:412:PHE:HB2	1.78	0.47
1:CO:272:TYR:N	1:CO:272:TYR:HD1	2.13	0.47
1:CR:234:ARG:HG2	1:CR:280:GLU:HG2	1.97	0.47
1:CS:189:PHE:HD2	1:CS:247:ILE:HD11	1.80	0.47
1:CT:189:PHE:CE2	1:CT:249:LEU:HD21	2.50	0.47
1:AC:55:ARG:CZ	1:AT:272:TYR:CD2	2.98	0.47
1:AG:61:PHE:CD2	1:AG:243:ILE:HD11	2.50	0.47
1:AH:189:PHE:CE1	1:AH:198:ARG:HG2	2.48	0.47
1:AH:379:VAL:HG11	1:AH:381:MET:HE1	1.96	0.47
1:AI:189:PHE:CE2	1:AI:249:LEU:HD21	2.46	0.47
1:AJ:232:THR:HB	1:AJ:334:VAL:HG23	1.97	0.47
1:AM:189:PHE:CE1	1:AM:198:ARG:HG2	2.50	0.47
1:AM:234:ARG:HG2	1:AM:280:GLU:HG2	1.96	0.47
1:AR:22:THR:OG1	1:AR:131:HIS:CD2	2.60	0.47
1:AT:454:ASN:ND2	1:AT:456:ALA:H	2.09	0.47
1:BB:189:PHE:HD2	1:BB:247:ILE:HD11	1.79	0.47
1:BC:55:ARG:CD	1:BT:272:TYR:HE2	2.28	0.47
1:BH:162:PHE:CD2	1:BH:163:LEU:HD13	2.50	0.47
1:BK:191:LEU:HD23	1:BK:191:LEU:N	2.19	0.47
1:BL:201:GLY:HA3	1:BL:300:GLN:HG2	1.96	0.47
1:BL:393:HIS:CG	1:BL:496:PHE:HB3	2.50	0.47
1:BS:454:ASN:HD21	1:BS:456:ALA:HB3	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CB:404:LEU:HD22	1:CB:486:VAL:HG22	1.96	0.47
1:CC:379:VAL:HG11	1:CC:381:MET:HE1	1.97	0.47
1:CE:239:ILE:HG12	1:CE:326:ILE:CD1	2.44	0.47
1:CF:232:THR:HB	1:CF:334:VAL:HG23	1.97	0.47
1:CG:234:ARG:HG2	1:CG:280:GLU:HG2	1.97	0.47
1:CJ:170:PHE:HD1	1:CJ:389:MET:HE2	1.80	0.47
1:CN:170:PHE:HD1	1:CN:389:MET:HE2	1.80	0.47
1:AA:11:PRO:HG2	1:AA:18:ARG:HD2	1.96	0.47
1:AB:272:TYR:CE2	1:CB:55:ARG:HD3	2.50	0.47
1:AD:250:TRP:HZ3	1:AD:272:TYR:CE1	2.29	0.47
1:AE:239:ILE:HG12	1:AE:326:ILE:CD1	2.45	0.47
1:AF:189:PHE:CE2	1:AF:249:LEU:HD21	2.42	0.47
1:AH:191:LEU:HD23	1:AH:191:LEU:N	2.22	0.47
1:AJ:237:VAL:HG23	1:AJ:279:PHE:CD2	2.50	0.47
1:AO:239:ILE:HD12	1:AO:275:GLU:HA	1.97	0.47
1:AP:30:SER:O	1:AP:33:LYS:HB2	2.14	0.47
1:BC:191:LEU:CD2	1:BC:191:LEU:N	2.76	0.47
1:BC:437:HIS:CE1	1:BD:405:GLN:NE2	2.83	0.47
1:BE:272:TYR:HE2	1:BM:55:ARG:NE	2.09	0.47
1:BK:232:THR:HB	1:BK:334:VAL:HG23	1.97	0.47
1:BL:191:LEU:CD2	1:BL:191:LEU:N	2.76	0.47
1:BP:22:THR:OG1	1:BP:131:HIS:CD2	2.58	0.47
1:BP:272:TYR:CD1	1:BP:272:TYR:N	2.83	0.47
1:BQ:10:ILE:HG21	1:BQ:146:TRP:CZ2	2.50	0.47
1:CD:239:ILE:HG12	1:CD:326:ILE:CD1	2.45	0.47
1:CH:239:ILE:HD12	1:CH:275:GLU:HA	1.96	0.47
1:CL:170:PHE:HD1	1:CL:389:MET:CE	2.28	0.47
1:CL:239:ILE:HG12	1:CL:326:ILE:CD1	2.45	0.47
1:CO:30:SER:O	1:CO:33:LYS:HB2	2.15	0.47
1:CQ:189:PHE:CE2	1:CQ:249:LEU:HD21	2.50	0.47
1:CQ:272:TYR:N	1:CQ:272:TYR:CD1	2.83	0.47
1:CR:10:ILE:HG21	1:CR:146:TRP:CZ2	2.49	0.47
1:CR:379:VAL:HG11	1:CR:381:MET:HE1	1.97	0.47
1:AB:61:PHE:CE2	1:AB:243:ILE:HD11	2.50	0.47
1:AB:272:TYR:CD2	1:CB:55:ARG:HD3	2.49	0.47
1:AD:272:TYR:N	1:AD:272:TYR:CD1	2.82	0.47
1:AE:454:ASN:HD21	1:AE:456:ALA:HB3	1.80	0.47
1:AF:239:ILE:HD12	1:AF:275:GLU:HA	1.96	0.47
1:AF:442:GLN:HE21	1:AG:412:PHE:HB2	1.80	0.47
1:AG:30:SER:O	1:AG:33:LYS:HB2	2.14	0.47
1:AK:55:ARG:CZ	1:CF:272:TYR:CD2	2.98	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:393:HIS:CG	1:AL:496:PHE:HB3	2.50	0.47
1:AN:25:ILE:HG23	1:AN:152:LEU:HD11	1.96	0.47
1:BB:25:ILE:HG23	1:BB:152:LEU:HD11	1.97	0.47
1:BC:30:SER:O	1:BC:33:LYS:HB2	2.15	0.47
1:BC:188:PHE:C	1:BC:189:PHE:HD1	2.17	0.47
1:BH:256:ASN:HD22	1:BH:302:ASP:HA	1.80	0.47
1:BI:272:TYR:N	1:BI:272:TYR:CD1	2.83	0.47
1:BN:440:ALA:HB3	1:BO:444:LEU:HD13	1.97	0.47
1:CA:226:VAL:HG13	1:CA:228:GLY:H	1.79	0.47
1:CC:188:PHE:C	1:CC:189:PHE:HD1	2.19	0.47
1:CE:234:ARG:HG2	1:CE:280:GLU:HG2	1.97	0.47
1:CM:263:ASN:O	1:CM:267:LYS:HG3	2.15	0.47
1:CM:393:HIS:CG	1:CM:496:PHE:HB3	2.50	0.47
1:CT:191:LEU:CD2	1:CT:191:LEU:N	2.76	0.47
1:CT:239:ILE:HG12	1:CT:326:ILE:CD1	2.45	0.47
1:AA:55:ARG:HD3	1:CC:272:TYR:CE2	2.50	0.46
1:AI:189:PHE:HD2	1:AI:247:ILE:CD1	2.28	0.46
1:AJ:75:ARG:NH2	1:AJ:391:ALA:O	2.47	0.46
1:AN:393:HIS:CG	1:AN:496:PHE:HB3	2.50	0.46
1:AN:454:ASN:HD21	1:AN:456:ALA:HB3	1.80	0.46
1:AO:239:ILE:HG23	1:AO:324:LEU:HD21	1.96	0.46
1:AO:292:ALA:C	1:AO:293:ARG:CG	2.80	0.46
1:AO:454:ASN:HD21	1:AO:456:ALA:HB3	1.80	0.46
1:AP:263:ASN:O	1:AP:267:LYS:HG3	2.15	0.46
1:AS:393:HIS:CG	1:AS:496:PHE:HB3	2.50	0.46
1:AT:379:VAL:HG11	1:AT:381:MET:HE1	1.96	0.46
1:BE:30:SER:O	1:BE:33:LYS:HB2	2.15	0.46
1:BK:379:VAL:HG11	1:BK:381:MET:HE1	1.95	0.46
1:BP:189:PHE:HD2	1:BP:247:ILE:HD11	1.80	0.46
1:BT:232:THR:HB	1:BT:334:VAL:CG2	2.44	0.46
1:CC:250:TRP:CZ3	1:CC:272:TYR:CD1	3.03	0.46
1:CG:454:ASN:HD21	1:CG:456:ALA:HB3	1.80	0.46
1:CI:67:VAL:HG23	1:CI:135:LEU:HB2	1.96	0.46
1:CI:162:PHE:CD2	1:CI:163:LEU:HD13	2.49	0.46
1:CK:79:ARG:HH11	1:CK:79:ARG:HG3	1.80	0.46
1:CP:43:ALA:HB1	1:CP:158:GLU:HA	1.96	0.46
1:AB:232:THR:HB	1:AB:334:VAL:HG23	1.97	0.46
1:AD:162:PHE:CD2	1:AD:163:LEU:HD13	2.50	0.46
1:AE:75:ARG:NH2	1:AE:391:ALA:O	2.47	0.46
1:AF:252:VAL:HG22	1:AF:253:SER:N	2.29	0.46
1:AG:263:ASN:ND2	1:BG:32:PHE:HD1	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:393:HIS:CG	1:AH:496:PHE:HB3	2.50	0.46
1:AI:454:ASN:HD21	1:AI:456:ALA:HB3	1.80	0.46
1:AL:436:SER:O	1:AM:487:LEU:HD21	2.15	0.46
1:AN:5:ARG:HD3	1:AS:263:ASN:HD22	1.80	0.46
1:AN:18:ARG:HG3	1:AN:19:TYR:N	2.30	0.46
1:AN:189:PHE:HD2	1:AN:247:ILE:CD1	2.27	0.46
1:AP:25:ILE:HG23	1:AP:152:LEU:HD11	1.97	0.46
1:AS:263:ASN:O	1:AS:267:LYS:HG3	2.15	0.46
1:BA:379:VAL:HG11	1:BA:381:MET:HE1	1.97	0.46
1:BC:189:PHE:HD2	1:BC:247:ILE:HD11	1.80	0.46
1:BE:75:ARG:NH2	1:BE:391:ALA:O	2.49	0.46
1:BO:170:PHE:HD1	1:BO:389:MET:CE	2.28	0.46
1:BR:454:ASN:HD21	1:BR:456:ALA:HB3	1.79	0.46
1:CD:20:LEU:HB2	1:CD:132:PHE:O	2.16	0.46
1:CE:191:LEU:CD2	1:CE:191:LEU:N	2.75	0.46
1:CF:405:GLN:NE2	1:CJ:437:HIS:CE1	2.83	0.46
1:CK:237:VAL:HG23	1:CK:279:PHE:CD2	2.49	0.46
1:CL:189:PHE:HE2	1:CL:249:LEU:HD21	1.80	0.46
1:CP:232:THR:HB	1:CP:334:VAL:CG2	2.45	0.46
1:AB:189:PHE:CE2	1:AB:249:LEU:HD21	2.46	0.46
1:AC:189:PHE:HE2	1:AC:249:LEU:CD2	2.28	0.46
1:AD:55:ARG:CZ	1:AN:272:TYR:CE2	2.99	0.46
1:AG:264:GLU:O	1:AG:267:LYS:CB	2.64	0.46
1:AM:239:ILE:HD12	1:AM:275:GLU:HA	1.97	0.46
1:AP:444:LEU:HD13	1:AT:440:ALA:CB	2.45	0.46
1:AQ:189:PHE:CE2	1:AQ:249:LEU:HD21	2.49	0.46
1:AR:189:PHE:HD2	1:AR:247:ILE:HD11	1.79	0.46
1:AR:423:LYS:HE2	1:AR:449:GLU:O	2.15	0.46
1:BA:371:ASP:OD1	1:BA:381:MET:HG2	2.16	0.46
1:BH:189:PHE:CE1	1:BH:198:ARG:HG2	2.48	0.46
1:BH:272:TYR:N	1:BH:272:TYR:CD1	2.83	0.46
1:BH:442:GLN:HE21	1:BI:412:PHE:HB2	1.80	0.46
1:BL:14:CYS:H	1:BL:138:ASN:HD21	1.62	0.46
1:BR:226:VAL:HG13	1:BR:228:GLY:H	1.80	0.46
1:CB:170:PHE:HD1	1:CB:389:MET:CE	2.28	0.46
1:CJ:250:TRP:CE3	1:CJ:272:TYR:CD1	3.03	0.46
1:CL:404:LEU:N	1:CL:404:LEU:HD23	2.31	0.46
1:CP:58:ALA:HB2	1:CP:102:GLY:HA3	1.98	0.46
1:CR:442:GLN:HE21	1:CS:412:PHE:HB2	1.78	0.46
1:AC:43:ALA:HB1	1:AC:158:GLU:HA	1.98	0.46
1:AC:272:TYR:CE2	1:BA:55:ARG:HD3	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:226:VAL:HG13	1:AD:228:GLY:H	1.80	0.46
1:AG:162:PHE:CD1	1:AH:287:TYR:HA	2.50	0.46
1:AG:189:PHE:CE1	1:AG:198:ARG:HG2	2.50	0.46
1:AH:239:ILE:HD12	1:AH:275:GLU:HA	1.98	0.46
1:AJ:58:ALA:HB2	1:AJ:102:GLY:HA3	1.97	0.46
1:AJ:284:ARG:CG	1:AJ:284:ARG:NH1	2.75	0.46
1:AJ:454:ASN:HD21	1:AJ:456:ALA:HB3	1.81	0.46
1:AL:239:ILE:HD12	1:AL:275:GLU:HA	1.98	0.46
1:AM:232:THR:HB	1:AM:334:VAL:CG2	2.45	0.46
1:AN:237:VAL:HG23	1:AN:279:PHE:CD2	2.51	0.46
1:BC:263:ASN:O	1:BC:267:LYS:HG3	2.16	0.46
1:BF:442:GLN:HE21	1:BG:412:PHE:HB2	1.80	0.46
1:BG:18:ARG:HG2	1:BG:20:LEU:HD23	1.98	0.46
1:BG:43:ALA:HB1	1:BG:158:GLU:HA	1.97	0.46
1:BK:171:ASP:HA	1:BK:172:PRO:HD3	1.81	0.46
1:BL:239:ILE:HD12	1:BL:275:GLU:HA	1.98	0.46
1:BR:232:THR:HB	1:BR:334:VAL:CG2	2.45	0.46
1:CB:203:THR:HB	1:CB:300:GLN:HG3	1.97	0.46
1:CB:239:ILE:HG12	1:CB:326:ILE:CD1	2.46	0.46
1:CD:79:ARG:CG	1:CD:79:ARG:NH1	2.71	0.46
1:CF:234:ARG:HG2	1:CF:280:GLU:HG2	1.98	0.46
1:CF:237:VAL:HG23	1:CF:279:PHE:CD2	2.50	0.46
1:CI:10:ILE:HG21	1:CI:146:TRP:CZ2	2.50	0.46
1:CO:25:ILE:HG23	1:CO:152:LEU:HD11	1.97	0.46
1:CO:170:PHE:HD1	1:CO:389:MET:CE	2.29	0.46
1:CT:18:ARG:HG3	1:CT:19:TYR:N	2.30	0.46
1:AG:79:ARG:NH1	1:AG:79:ARG:CG	2.72	0.46
1:AJ:203:THR:HB	1:AJ:300:GLN:CG	2.45	0.46
1:AM:379:VAL:HG11	1:AM:381:MET:HE1	1.97	0.46
1:AS:237:VAL:HG23	1:AS:279:PHE:CD2	2.50	0.46
1:BA:393:HIS:CG	1:BA:496:PHE:HB3	2.50	0.46
1:BD:404:LEU:HD22	1:BD:486:VAL:HG22	1.96	0.46
1:BF:393:HIS:CG	1:BF:496:PHE:HB3	2.50	0.46
1:BM:189:PHE:HD2	1:BM:247:ILE:HD11	1.80	0.46
1:BO:379:VAL:HG11	1:BO:381:MET:HE1	1.98	0.46
1:BP:14:CYS:H	1:BP:138:ASN:ND2	2.11	0.46
1:CA:162:PHE:CD2	1:CA:163:LEU:HD13	2.51	0.46
1:CD:454:ASN:HD21	1:CD:456:ALA:HB3	1.79	0.46
1:CG:379:VAL:HG11	1:CG:381:MET:HE1	1.97	0.46
1:CH:379:VAL:HG11	1:CH:381:MET:HE1	1.97	0.46
1:CK:272:TYR:CD1	1:CK:272:TYR:N	2.84	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CL:234:ARG:HG2	1:CL:280:GLU:HG2	1.97	0.46
1:CP:189:PHE:HE2	1:CP:249:LEU:HD21	1.80	0.46
1:CS:454:ASN:HD21	1:CS:456:ALA:HB3	1.81	0.46
1:AC:263:ASN:HD22	1:BA:5:ARG:HD3	1.80	0.46
1:AG:234:ARG:HG2	1:AG:280:GLU:HG2	1.98	0.46
1:AG:393:HIS:CG	1:AG:496:PHE:HB3	2.51	0.46
1:AH:442:GLN:HE21	1:AI:412:PHE:HB2	1.81	0.46
1:AJ:272:TYR:HD2	1:AQ:55:ARG:HD3	1.78	0.46
1:AL:162:PHE:CD2	1:AL:163:LEU:HD13	2.51	0.46
1:AP:272:TYR:CD2	1:BE:55:ARG:CZ	2.98	0.46
1:AR:234:ARG:HG2	1:AR:280:GLU:HG2	1.98	0.46
1:AT:454:ASN:HD21	1:AT:456:ALA:HB3	1.80	0.46
1:BB:189:PHE:CE2	1:BB:249:LEU:HD21	2.43	0.46
1:BF:58:ALA:HB2	1:BF:102:GLY:HA3	1.97	0.46
1:BF:272:TYR:HE2	1:CK:55:ARG:NE	2.10	0.46
1:BI:252:VAL:HG22	1:BI:253:SER:N	2.30	0.46
1:BL:232:THR:HB	1:BL:334:VAL:HG23	1.97	0.46
1:BM:30:SER:O	1:BM:33:LYS:HB2	2.15	0.46
1:BQ:239:ILE:HD12	1:BQ:275:GLU:HA	1.97	0.46
1:BR:30:SER:O	1:BR:33:LYS:HB2	2.15	0.46
1:BR:191:LEU:CD2	1:BR:191:LEU:N	2.77	0.46
1:BR:263:ASN:O	1:BR:267:LYS:HG3	2.14	0.46
1:BS:16:ALA:O	1:BS:17:ASN:HB2	2.16	0.46
1:BT:43:ALA:HB1	1:BT:158:GLU:HA	1.97	0.46
1:BT:393:HIS:CG	1:BT:496:PHE:HB3	2.51	0.46
1:BT:423:LYS:HE2	1:BT:449:GLU:O	2.16	0.46
1:CE:61:PHE:CD2	1:CE:243:ILE:HD11	2.50	0.46
1:CE:75:ARG:NH2	1:CE:391:ALA:O	2.48	0.46
1:CE:170:PHE:HD1	1:CE:389:MET:CE	2.29	0.46
1:CG:442:GLN:HE21	1:CH:412:PHE:HB2	1.81	0.46
1:CJ:454:ASN:HD21	1:CJ:456:ALA:HB3	1.80	0.46
1:CM:162:PHE:CD2	1:CM:163:LEU:HD13	2.50	0.46
1:CN:207:VAL:HA	1:CN:208:PRO:HD3	1.80	0.46
1:CP:14:CYS:H	1:CP:138:ASN:HD21	1.62	0.46
1:AA:162:PHE:CD2	1:AA:163:LEU:HD13	2.51	0.46
1:AD:237:VAL:HG23	1:AD:279:PHE:CD2	2.50	0.46
1:AE:239:ILE:HD12	1:AE:275:GLU:HA	1.98	0.46
1:AF:324:LEU:C	1:AF:324:LEU:HD23	2.36	0.46
1:AG:170:PHE:HD1	1:AG:389:MET:CE	2.29	0.46
1:AH:189:PHE:HD2	1:AH:247:ILE:HD11	1.79	0.46
1:AJ:43:ALA:HB1	1:AJ:158:GLU:HA	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:237:VAL:HG23	1:AR:279:PHE:CD2	2.50	0.46
1:AS:404:LEU:HD22	1:AS:486:VAL:HG22	1.98	0.46
1:AT:239:ILE:HD12	1:AT:275:GLU:HA	1.98	0.46
1:BA:284:ARG:CG	1:BA:284:ARG:NH1	2.68	0.46
1:BE:379:VAL:HG11	1:BE:381:MET:HE1	1.98	0.46
1:BM:272:TYR:N	1:BM:272:TYR:CD1	2.82	0.46
1:BM:454:ASN:HD21	1:BM:456:ALA:HB3	1.80	0.46
1:BN:182:LEU:HG	1:BN:330:ILE:HB	1.97	0.46
1:CE:263:ASN:O	1:CE:267:LYS:HG3	2.16	0.46
1:CF:191:LEU:CD2	1:CF:191:LEU:N	2.75	0.46
1:CI:61:PHE:CE2	1:CI:243:ILE:HD11	2.50	0.46
1:CK:189:PHE:HD2	1:CK:247:ILE:HD11	1.80	0.46
1:CP:393:HIS:CG	1:CP:496:PHE:HB3	2.51	0.46
1:CQ:393:HIS:CG	1:CQ:496:PHE:HB3	2.51	0.46
1:AC:237:VAL:HG23	1:AC:279:PHE:CD2	2.50	0.46
1:AF:189:PHE:HD2	1:AF:247:ILE:HD11	1.80	0.46
1:AG:270:GLY:O	1:AG:271:VAL:HG13	2.16	0.46
1:AH:234:ARG:HG2	1:AH:280:GLU:HG2	1.98	0.46
1:AK:234:ARG:HG2	1:AK:280:GLU:HG2	1.98	0.46
1:AM:232:THR:HB	1:AM:334:VAL:HG23	1.98	0.46
1:AM:454:ASN:HD21	1:AM:456:ALA:HB3	1.80	0.46
1:AP:61:PHE:CD2	1:AP:243:ILE:HD11	2.51	0.46
1:AS:14:CYS:H	1:AS:138:ASN:HD21	1.64	0.46
1:BD:170:PHE:HD1	1:BD:389:MET:HE2	1.81	0.46
1:BD:189:PHE:CE2	1:BD:249:LEU:HD21	2.50	0.46
1:BD:226:VAL:HG13	1:BD:228:GLY:H	1.80	0.46
1:BH:16:ALA:O	1:BH:17:ASN:HB2	2.15	0.46
1:BK:191:LEU:CD2	1:BK:191:LEU:N	2.76	0.46
1:BM:252:VAL:HG22	1:BM:253:SER:N	2.31	0.46
1:BO:250:TRP:CZ3	1:BO:272:TYR:CD1	3.04	0.46
1:CC:250:TRP:HE3	1:CC:272:TYR:CD1	2.33	0.46
1:CD:30:SER:O	1:CD:33:LYS:HB2	2.15	0.46
1:CI:189:PHE:CE2	1:CI:249:LEU:HD21	2.41	0.46
1:CK:234:ARG:HG2	1:CK:280:GLU:HG2	1.96	0.46
1:AA:189:PHE:HD2	1:AA:247:ILE:HD11	1.81	0.46
1:AA:393:HIS:CG	1:AA:496:PHE:HB3	2.51	0.46
1:AE:272:TYR:CD1	1:AE:272:TYR:N	2.84	0.46
1:AG:170:PHE:HD1	1:AG:389:MET:HE2	1.81	0.46
1:AH:191:LEU:CD2	1:AH:191:LEU:N	2.77	0.46
1:AI:18:ARG:NH1	1:AI:18:ARG:HB2	2.31	0.46
1:AK:203:THR:HB	1:AK:300:GLN:HG3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:14:CYS:HB3	1:AL:64:LEU:HD21	1.98	0.46
1:AL:25:ILE:HG23	1:AL:152:LEU:HD11	1.97	0.46
1:AM:14:CYS:H	1:AM:138:ASN:HD21	1.64	0.46
1:AN:162:PHE:CD2	1:AN:163:LEU:HD13	2.51	0.46
1:AO:393:HIS:CG	1:AO:496:PHE:HB3	2.51	0.46
1:AP:189:PHE:CE1	1:AP:198:ARG:CG	2.99	0.46
1:AQ:454:ASN:ND2	1:AQ:456:ALA:H	2.10	0.46
1:AR:170:PHE:HD1	1:AR:389:MET:CE	2.29	0.46
1:AS:171:ASP:HA	1:AS:172:PRO:HD3	1.77	0.46
1:AT:171:ASP:HA	1:AT:172:PRO:HD3	1.76	0.46
1:AT:263:ASN:O	1:AT:267:LYS:HG3	2.15	0.46
1:BA:234:ARG:HG2	1:BA:280:GLU:HG2	1.97	0.46
1:BE:272:TYR:N	1:BE:272:TYR:CD1	2.84	0.46
1:BG:232:THR:HB	1:BG:334:VAL:CG2	2.45	0.46
1:BI:5:ARG:HD3	1:BR:263:ASN:HD22	1.81	0.46
1:BL:25:ILE:HG23	1:BL:152:LEU:HD11	1.98	0.46
1:BL:237:VAL:HG23	1:BL:279:PHE:CD2	2.50	0.46
1:BN:30:SER:O	1:BN:33:LYS:HB2	2.15	0.46
1:BN:255:TRP:CE3	1:BN:285:SER:HB2	2.51	0.46
1:BO:11:PRO:HG2	1:BO:18:ARG:CD	2.46	0.46
1:BT:18:ARG:HG3	1:BT:19:TYR:N	2.31	0.46
1:CC:55:ARG:CZ	1:CT:272:TYR:CD2	2.98	0.46
1:CG:272:TYR:N	1:CG:272:TYR:HD1	2.13	0.46
1:CG:454:ASN:ND2	1:CG:456:ALA:H	2.08	0.46
1:CI:373:THR:HG22	1:CI:374:SER:N	2.29	0.46
1:CJ:239:ILE:HD12	1:CJ:275:GLU:HA	1.98	0.46
1:CK:30:SER:O	1:CK:33:LYS:HB2	2.15	0.46
1:CL:79:ARG:HH11	1:CL:79:ARG:CG	2.27	0.46
1:CM:226:VAL:HG13	1:CM:228:GLY:H	1.80	0.46
1:CN:379:VAL:HG11	1:CN:381:MET:HE1	1.97	0.46
1:CR:182:LEU:HG	1:CR:330:ILE:HB	1.97	0.46
1:CR:393:HIS:CG	1:CR:496:PHE:HB3	2.51	0.46
1:CT:272:TYR:N	1:CT:272:TYR:HD1	2.14	0.46
1:AC:393:HIS:CG	1:AC:496:PHE:HB3	2.51	0.46
1:AE:189:PHE:HD2	1:AE:247:ILE:CD1	2.28	0.46
1:AG:263:ASN:ND2	1:BG:32:PHE:CG	2.83	0.46
1:AH:239:ILE:HG12	1:AH:326:ILE:CD1	2.46	0.46
1:AI:171:ASP:HA	1:AI:172:PRO:HD3	1.77	0.46
1:AK:379:VAL:HG11	1:AK:381:MET:HE1	1.96	0.46
1:AL:437:HIS:CE1	1:AM:405:GLN:NE2	2.84	0.46
1:AN:189:PHE:CE1	1:AN:198:ARG:HG2	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AQ:30:SER:O	1:AQ:33:LYS:HB2	2.15	0.46
1:BG:25:ILE:HG23	1:BG:152:LEU:HD11	1.96	0.46
1:BG:189:PHE:CE1	1:BG:198:ARG:HG2	2.51	0.46
1:BG:393:HIS:CG	1:BG:496:PHE:HB3	2.51	0.46
1:BH:189:PHE:HE1	1:BH:198:ARG:HG2	1.77	0.46
1:BH:239:ILE:HD12	1:BH:275:GLU:HA	1.96	0.46
1:BJ:250:TRP:CZ3	1:BJ:272:TYR:CD1	3.04	0.46
1:BJ:263:ASN:O	1:BJ:267:LYS:HG3	2.16	0.46
1:CC:252:VAL:HG22	1:CC:253:SER:N	2.31	0.46
1:CI:272:TYR:N	1:CI:272:TYR:HD1	2.14	0.46
1:CK:162:PHE:CD2	1:CK:163:LEU:HD13	2.50	0.46
1:CK:171:ASP:HA	1:CK:172:PRO:HD3	1.79	0.46
1:CN:232:THR:HB	1:CN:334:VAL:CG2	2.46	0.46
1:CR:162:PHE:CD2	1:CR:163:LEU:HD13	2.51	0.46
1:CR:191:LEU:CD2	1:CR:191:LEU:N	2.76	0.46
1:AA:237:VAL:HG23	1:AA:279:PHE:CD2	2.51	0.45
1:AB:269:PRO:O	1:AB:269:PRO:HG2	2.16	0.45
1:AD:189:PHE:CE2	1:AD:249:LEU:HD21	2.51	0.45
1:AF:454:ASN:HD21	1:AF:456:ALA:HB3	1.80	0.45
1:AH:418:SER:HB3	1:AI:407:SER:HB3	1.98	0.45
1:AN:239:ILE:HD12	1:AN:275:GLU:HA	1.97	0.45
1:AP:272:TYR:N	1:AP:272:TYR:HD1	2.15	0.45
1:AQ:284:ARG:CG	1:AQ:284:ARG:NH1	2.74	0.45
1:AT:226:VAL:HG13	1:AT:228:GLY:H	1.81	0.45
1:AT:272:TYR:N	1:AT:272:TYR:CD1	2.83	0.45
1:AT:395:LEU:HB2	1:AT:497:TYR:HB2	1.98	0.45
1:AT:404:LEU:HD22	1:AT:486:VAL:HG22	1.97	0.45
1:BB:393:HIS:CG	1:BB:496:PHE:HB3	2.51	0.45
1:BE:25:ILE:HG23	1:BE:152:LEU:HD11	1.98	0.45
1:BG:79:ARG:HG3	1:BG:79:ARG:NH1	2.30	0.45
1:BG:272:TYR:N	1:BG:272:TYR:HD1	2.14	0.45
1:BI:189:PHE:HD2	1:BI:247:ILE:CD1	2.29	0.45
1:BK:189:PHE:CE2	1:BK:249:LEU:HD21	2.51	0.45
1:BM:272:TYR:N	1:BM:272:TYR:HD1	2.14	0.45
1:BN:28:MET:HE2	1:BN:152:LEU:HG	1.97	0.45
1:BO:162:PHE:CD2	1:BO:163:LEU:HD13	2.51	0.45
1:CA:444:LEU:HD13	1:CE:440:ALA:CB	2.46	0.45
1:CB:318:SER:HA	1:CB:319:GLY:HA2	1.76	0.45
1:CF:272:TYR:N	1:CF:272:TYR:CD1	2.85	0.45
1:CF:393:HIS:CG	1:CF:496:PHE:HB3	2.52	0.45
1:CF:404:LEU:HD22	1:CF:486:VAL:HG22	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CJ:263:ASN:O	1:CJ:267:LYS:HG3	2.16	0.45
1:CK:226:VAL:HG13	1:CK:228:GLY:H	1.81	0.45
1:CL:162:PHE:CD2	1:CL:163:LEU:HD13	2.51	0.45
1:AA:239:ILE:HD12	1:AA:275:GLU:HA	1.97	0.45
1:AC:189:PHE:HD2	1:AC:247:ILE:HD11	1.80	0.45
1:AG:442:GLN:HE21	1:AH:412:PHE:HB2	1.81	0.45
1:AI:16:ALA:O	1:AI:17:ASN:HB2	2.17	0.45
1:AI:144:ALA:CB	1:AR:191:LEU:O	2.64	0.45
1:AK:263:ASN:O	1:AK:267:LYS:HG3	2.15	0.45
1:AK:272:TYR:N	1:AK:272:TYR:HD1	2.13	0.45
1:AN:189:PHE:HD2	1:AN:247:ILE:HD11	1.80	0.45
1:AS:30:SER:O	1:AS:33:LYS:HB2	2.16	0.45
1:BB:423:LYS:HE2	1:BB:449:GLU:O	2.16	0.45
1:BF:440:ALA:HB3	1:BG:444:LEU:HD13	1.98	0.45
1:BH:393:HIS:CG	1:BH:496:PHE:HB3	2.51	0.45
1:BO:454:ASN:HD21	1:BO:456:ALA:HB3	1.80	0.45
1:BP:73:TYR:CZ	1:BP:394:GLY:HA3	2.51	0.45
1:BP:272:TYR:CD2	1:CE:55:ARG:NH1	2.84	0.45
1:BQ:170:PHE:HD1	1:BQ:389:MET:CE	2.30	0.45
1:BR:189:PHE:CE2	1:BR:249:LEU:HD21	2.48	0.45
1:BS:30:SER:O	1:BS:33:LYS:HB2	2.16	0.45
1:CA:170:PHE:HD1	1:CA:389:MET:HE2	1.80	0.45
1:CA:232:THR:HB	1:CA:334:VAL:CG2	2.46	0.45
1:CA:393:HIS:CG	1:CA:496:PHE:HB3	2.52	0.45
1:CC:170:PHE:HD1	1:CC:389:MET:CE	2.30	0.45
1:CH:201:GLY:HA3	1:CH:300:GLN:HG2	1.98	0.45
1:CJ:234:ARG:HG2	1:CJ:280:GLU:HG2	1.98	0.45
1:CN:232:THR:HB	1:CN:334:VAL:HG23	1.99	0.45
1:CR:263:ASN:O	1:CR:267:LYS:HG3	2.16	0.45
1:CS:58:ALA:HB2	1:CS:102:GLY:HA3	1.97	0.45
1:AD:170:PHE:HD1	1:AD:389:MET:HE2	1.81	0.45
1:AG:144:ALA:HB3	1:CG:191:LEU:O	2.17	0.45
1:AG:201:GLY:HA3	1:AG:300:GLN:HG2	1.99	0.45
1:AG:263:ASN:ND2	1:BG:32:PHE:N	2.51	0.45
1:AL:203:THR:HB	1:AL:300:GLN:HG3	1.98	0.45
1:AO:250:TRP:CE3	1:AO:272:TYR:CD1	3.04	0.45
1:AP:18:ARG:CG	1:AP:18:ARG:HH11	2.29	0.45
1:AP:18:ARG:HH11	1:AP:18:ARG:HG3	1.81	0.45
1:AS:170:PHE:HD1	1:AS:389:MET:CE	2.28	0.45
1:AT:318:SER:HA	1:AT:319:GLY:HA2	1.78	0.45
1:BE:237:VAL:HG23	1:BE:279:PHE:CD2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BH:25:ILE:HG23	1:BH:152:LEU:HD11	1.98	0.45
1:BI:239:ILE:HD12	1:BI:275:GLU:HA	1.98	0.45
1:BL:58:ALA:HB2	1:BL:102:GLY:HA3	1.98	0.45
1:BL:162:PHE:CD2	1:BL:163:LEU:HD13	2.51	0.45
1:BM:379:VAL:HG11	1:BM:381:MET:HE1	1.98	0.45
1:BP:79:ARG:CG	1:BP:79:ARG:NH1	2.60	0.45
1:BP:454:ASN:HD21	1:BP:456:ALA:HB3	1.81	0.45
1:BS:75:ARG:NH2	1:BS:391:ALA:O	2.49	0.45
1:BT:237:VAL:HG23	1:BT:279:PHE:CD2	2.51	0.45
1:CF:162:PHE:CD1	1:CG:287:TYR:HA	2.51	0.45
1:CG:232:THR:HB	1:CG:334:VAL:HG23	1.97	0.45
1:CI:170:PHE:HD1	1:CI:389:MET:CE	2.29	0.45
1:CO:226:VAL:HG13	1:CO:228:GLY:H	1.81	0.45
1:CO:234:ARG:HG2	1:CO:280:GLU:HG2	1.97	0.45
1:CT:30:SER:O	1:CT:33:LYS:HB2	2.16	0.45
1:AC:189:PHE:HE1	1:AC:198:ARG:CG	2.27	0.45
1:AF:232:THR:HB	1:AF:334:VAL:CG2	2.46	0.45
1:AI:18:ARG:HG3	1:AI:19:TYR:O	2.16	0.45
1:AK:226:VAL:HG13	1:AK:228:GLY:H	1.81	0.45
1:AK:239:ILE:HG12	1:AK:326:ILE:CD1	2.46	0.45
1:AM:171:ASP:HA	1:AM:172:PRO:HD3	1.79	0.45
1:AT:232:THR:HB	1:AT:334:VAL:HG23	1.98	0.45
1:BC:454:ASN:HD21	1:BC:456:ALA:HB3	1.82	0.45
1:BD:393:HIS:CG	1:BD:496:PHE:HB3	2.52	0.45
1:BG:239:ILE:HD12	1:BG:275:GLU:HA	1.99	0.45
1:BI:16:ALA:O	1:BI:17:ASN:HB2	2.16	0.45
1:BL:454:ASN:HD21	1:BL:456:ALA:HB3	1.80	0.45
1:BN:14:CYS:HB3	1:BN:64:LEU:HD21	1.97	0.45
1:BO:234:ARG:HG2	1:BO:280:GLU:HG2	1.97	0.45
1:BO:252:VAL:HG22	1:BO:253:SER:N	2.31	0.45
1:BT:170:PHE:HD1	1:BT:389:MET:HE2	1.81	0.45
1:CA:379:VAL:HG11	1:CA:381:MET:HE1	1.98	0.45
1:CC:234:ARG:HG2	1:CC:280:GLU:HG2	1.99	0.45
1:CD:440:ALA:CB	1:CE:444:LEU:HD13	2.46	0.45
1:CH:232:THR:HB	1:CH:334:VAL:HG23	1.99	0.45
1:CI:454:ASN:HD21	1:CI:456:ALA:HB3	1.81	0.45
1:CQ:189:PHE:HD2	1:CQ:247:ILE:HD11	1.81	0.45
1:CS:324:LEU:HD23	1:CS:324:LEU:C	2.36	0.45
1:CT:226:VAL:HG13	1:CT:228:GLY:H	1.81	0.45
1:AA:189:PHE:CE2	1:AA:249:LEU:HD21	2.51	0.45
1:AC:73:TYR:O	1:AC:75:ARG:HG2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:379:VAL:HG11	1:AC:381:MET:HE1	1.98	0.45
1:AJ:226:VAL:HG13	1:AJ:228:GLY:H	1.82	0.45
1:AJ:234:ARG:HG2	1:AJ:280:GLU:HG2	1.98	0.45
1:AN:272:TYR:N	1:AN:272:TYR:HD1	2.14	0.45
1:AQ:207:VAL:HA	1:AQ:208:PRO:HD3	1.84	0.45
1:BC:55:ARG:HD3	1:BT:272:TYR:CE2	2.51	0.45
1:BC:55:ARG:HD3	1:BT:272:TYR:CD2	2.52	0.45
1:BD:14:CYS:H	1:BD:138:ASN:ND2	2.14	0.45
1:BD:237:VAL:HG23	1:BD:279:PHE:CD2	2.51	0.45
1:BG:234:ARG:HG2	1:BG:280:GLU:HG2	1.99	0.45
1:BH:404:LEU:HD22	1:BH:486:VAL:HG22	1.99	0.45
1:BP:442:GLN:HE21	1:BQ:412:PHE:HB2	1.82	0.45
1:BQ:232:THR:HB	1:BQ:334:VAL:CG2	2.46	0.45
1:BR:189:PHE:HD2	1:BR:247:ILE:HD11	1.81	0.45
1:CA:232:THR:HB	1:CA:334:VAL:HG23	1.99	0.45
1:CF:263:ASN:O	1:CF:267:LYS:HG3	2.16	0.45
1:CH:30:SER:O	1:CH:33:LYS:HB2	2.16	0.45
1:CI:354:SER:O	1:CI:378:ARG:HB3	2.16	0.45
1:CJ:189:PHE:HE1	1:CJ:198:ARG:HG2	1.79	0.45
1:CM:234:ARG:HG2	1:CM:280:GLU:HG2	1.98	0.45
1:CN:189:PHE:CE1	1:CN:198:ARG:HG2	2.51	0.45
1:CN:239:ILE:HD12	1:CN:275:GLU:HA	1.97	0.45
1:CQ:272:TYR:N	1:CQ:272:TYR:HD1	2.15	0.45
1:CS:263:ASN:O	1:CS:267:LYS:HG3	2.16	0.45
1:CT:14:CYS:HB3	1:CT:64:LEU:HD21	1.97	0.45
1:AB:74:ASN:ND2	1:AB:77:THR:OG1	2.50	0.45
1:AC:18:ARG:HG2	1:AC:20:LEU:HD23	1.98	0.45
1:AC:272:TYR:N	1:AC:272:TYR:CD1	2.85	0.45
1:AE:30:SER:O	1:AE:33:LYS:HB2	2.16	0.45
1:AF:75:ARG:NH2	1:AF:391:ALA:O	2.49	0.45
1:AJ:189:PHE:HD2	1:AJ:247:ILE:HD11	1.82	0.45
1:AR:393:HIS:CG	1:AR:496:PHE:HB3	2.52	0.45
1:AS:189:PHE:CE2	1:AS:249:LEU:HD21	2.51	0.45
1:AT:234:ARG:HG2	1:AT:280:GLU:HG2	1.97	0.45
1:AT:272:TYR:N	1:AT:272:TYR:HD1	2.14	0.45
1:BE:226:VAL:HG13	1:BE:228:GLY:H	1.81	0.45
1:BJ:237:VAL:HG23	1:BJ:279:PHE:CD2	2.51	0.45
1:BN:393:HIS:CG	1:BN:496:PHE:HB3	2.51	0.45
1:CB:371:ASP:OD1	1:CB:381:MET:HG2	2.16	0.45
1:CE:79:ARG:HH11	1:CE:79:ARG:CG	2.28	0.45
1:CG:263:ASN:O	1:CG:267:LYS:HG3	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CH:237:VAL:HG23	1:CH:279:PHE:CD2	2.51	0.45
1:CI:361:GLU:OE1	1:CI:376:THR:HG23	2.17	0.45
1:CJ:20:LEU:HB2	1:CJ:132:PHE:O	2.16	0.45
1:CJ:207:VAL:HA	1:CJ:208:PRO:HD3	1.83	0.45
1:CK:393:HIS:CG	1:CK:496:PHE:HB3	2.52	0.45
1:CL:22:THR:OG1	1:CL:131:HIS:CD2	2.63	0.45
1:CP:18:ARG:HH11	1:CP:18:ARG:HG3	1.82	0.45
1:CQ:30:SER:O	1:CQ:33:LYS:HB2	2.16	0.45
1:AB:379:VAL:HG11	1:AB:381:MET:HE1	1.99	0.45
1:AD:203:THR:HB	1:AD:300:GLN:HG3	1.99	0.45
1:AG:371:ASP:OD1	1:AG:381:MET:HG2	2.17	0.45
1:AH:232:THR:HB	1:AH:334:VAL:HG23	1.99	0.45
1:AI:393:HIS:CG	1:AI:496:PHE:HB3	2.52	0.45
1:AJ:162:PHE:CD2	1:AJ:163:LEU:HD13	2.52	0.45
1:AM:272:TYR:CD1	1:AM:272:TYR:N	2.85	0.45
1:AM:440:ALA:CB	1:AN:444:LEU:HD13	2.47	0.45
1:AP:412:PHE:HB2	1:AT:442:GLN:NE2	2.31	0.45
1:AQ:252:VAL:HG22	1:AQ:253:SER:N	2.32	0.45
1:AR:61:PHE:CD2	1:AR:243:ILE:HD11	2.52	0.45
1:AS:182:LEU:C	1:AS:182:LEU:HD12	2.37	0.45
1:BC:189:PHE:HE1	1:BC:198:ARG:CG	2.26	0.45
1:BE:393:HIS:CG	1:BE:496:PHE:HB3	2.51	0.45
1:BL:252:VAL:HG22	1:BL:253:SER:N	2.31	0.45
1:BL:272:TYR:CD1	1:BL:272:TYR:N	2.85	0.45
1:BM:75:ARG:NH2	1:BM:391:ALA:O	2.50	0.45
1:BP:74:ASN:ND2	1:BP:77:THR:OG1	2.50	0.45
1:BP:189:PHE:CE2	1:BP:249:LEU:HD21	2.52	0.45
1:BQ:237:VAL:HG23	1:BQ:279:PHE:CD2	2.52	0.45
1:BQ:272:TYR:N	1:BQ:272:TYR:CD1	2.84	0.45
1:BT:25:ILE:HG23	1:BT:152:LEU:HD11	1.99	0.45
1:CB:170:PHE:HD1	1:CB:389:MET:HE2	1.82	0.45
1:CE:197:LEU:HD13	1:CE:309:TYR:CZ	2.51	0.45
1:CH:263:ASN:O	1:CH:267:LYS:HG3	2.17	0.45
1:CI:43:ALA:HB1	1:CI:158:GLU:HA	1.97	0.45
1:CI:189:PHE:HD2	1:CI:247:ILE:HD11	1.81	0.45
1:CL:237:VAL:HG23	1:CL:279:PHE:CD2	2.52	0.45
1:CP:237:VAL:HG23	1:CP:279:PHE:CD2	2.51	0.45
1:CP:379:VAL:HG11	1:CP:381:MET:HE1	1.99	0.45
1:CQ:25:ILE:HG23	1:CQ:152:LEU:HD11	1.98	0.45
1:CQ:58:ALA:HB2	1:CQ:102:GLY:HA3	1.98	0.45
1:CS:162:PHE:CD2	1:CS:163:LEU:HD13	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:79:ARG:HH11	1:AA:79:ARG:HG3	1.82	0.45
1:AB:393:HIS:CG	1:AB:496:PHE:HB3	2.51	0.45
1:AE:207:VAL:HA	1:AE:208:PRO:HD3	1.82	0.45
1:AF:171:ASP:HA	1:AF:172:PRO:HD3	1.79	0.45
1:AF:379:VAL:HG11	1:AF:381:MET:HE1	1.99	0.45
1:AG:404:LEU:HD22	1:AG:486:VAL:HG22	1.98	0.45
1:AH:232:THR:HB	1:AH:334:VAL:CG2	2.47	0.45
1:AI:189:PHE:CE1	1:AI:198:ARG:HG2	2.51	0.45
1:AJ:25:ILE:HG23	1:AJ:152:LEU:HD11	1.99	0.45
1:AK:418:SER:HB3	1:AL:407:SER:CB	2.47	0.45
1:AL:234:ARG:HG2	1:AL:280:GLU:HG2	1.99	0.45
1:AM:43:ALA:HB1	1:AM:158:GLU:HA	1.99	0.45
1:AP:203:THR:HB	1:AP:300:GLN:HG3	1.97	0.45
1:AP:272:TYR:N	1:AP:272:TYR:CD1	2.85	0.45
1:AQ:74:ASN:ND2	1:AQ:77:THR:OG1	2.49	0.45
1:BA:237:VAL:HG23	1:BA:279:PHE:CD2	2.51	0.45
1:BC:162:PHE:CD2	1:BC:163:LEU:HD13	2.52	0.45
1:BD:58:ALA:HB2	1:BD:102:GLY:HA3	1.99	0.45
1:BF:404:LEU:HD22	1:BF:486:VAL:HG22	1.97	0.45
1:BG:189:PHE:HD2	1:BG:247:ILE:HD11	1.82	0.45
1:BM:234:ARG:HG2	1:BM:280:GLU:HG2	1.97	0.45
1:BN:232:THR:HB	1:BN:334:VAL:CG2	2.47	0.45
1:BN:318:SER:HA	1:BN:319:GLY:HA2	1.80	0.45
1:BO:263:ASN:O	1:BO:267:LYS:HG3	2.17	0.45
1:BR:272:TYR:N	1:BR:272:TYR:CD1	2.85	0.45
1:CC:232:THR:HB	1:CC:334:VAL:HG23	1.99	0.45
1:CG:189:PHE:CE2	1:CG:249:LEU:HD21	2.44	0.45
1:CH:226:VAL:HG13	1:CH:228:GLY:H	1.82	0.45
1:CH:371:ASP:OD1	1:CH:381:MET:HG2	2.16	0.45
1:CJ:189:PHE:CE1	1:CJ:198:ARG:HG2	2.52	0.45
1:CM:77:THR:O	1:CM:81:THR:HG23	2.16	0.45
1:CP:67:VAL:HG23	1:CP:135:LEU:HB2	1.98	0.45
1:AE:170:PHE:HD1	1:AE:389:MET:CE	2.29	0.45
1:AJ:393:HIS:CG	1:AJ:496:PHE:HB3	2.51	0.45
1:AN:170:PHE:HD1	1:AN:389:MET:CE	2.30	0.45
1:AN:430:MET:HE1	1:AO:296:ALA:HA	1.98	0.45
1:AO:189:PHE:HE2	1:AO:249:LEU:HD21	1.82	0.45
1:AO:207:VAL:HA	1:AO:208:PRO:HD3	1.86	0.45
1:AS:25:ILE:HG23	1:AS:152:LEU:HD11	1.98	0.45
1:AS:250:TRP:CZ3	1:AS:272:TYR:CD1	3.05	0.45
1:BB:237:VAL:HG23	1:BB:279:PHE:CD2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BB:371:ASP:OD1	1:BB:381:MET:HG2	2.17	0.45
1:BC:18:ARG:HG3	1:BC:19:TYR:N	2.31	0.45
1:BD:61:PHE:CZ	1:BN:243:ILE:HD13	2.51	0.45
1:BE:189:PHE:HD2	1:BE:247:ILE:CD1	2.30	0.45
1:BH:10:ILE:HD13	1:BH:20:LEU:HD13	1.99	0.45
1:BH:226:VAL:HG13	1:BH:228:GLY:H	1.82	0.45
1:BP:237:VAL:HG23	1:BP:279:PHE:CD2	2.51	0.45
1:BR:189:PHE:HD2	1:BR:247:ILE:CD1	2.30	0.45
1:BT:454:ASN:HD21	1:BT:456:ALA:HB3	1.82	0.45
1:CB:442:GLN:HE21	1:CC:412:PHE:HB2	1.82	0.45
1:CF:238:HIS:HE1	1:CF:329:GLN:OE1	2.00	0.45
1:CG:207:VAL:HA	1:CG:208:PRO:HD3	1.82	0.45
1:CI:38:GLU:CB	1:CQ:35:VAL:HG23	2.46	0.45
1:CJ:79:ARG:HH11	1:CJ:79:ARG:CG	2.29	0.45
1:CM:22:THR:OG1	1:CM:131:HIS:CD2	2.63	0.45
1:CM:189:PHE:CE2	1:CM:249:LEU:HD21	2.45	0.45
1:CM:300:GLN:HE21	1:CM:300:GLN:HB2	1.54	0.45
1:CM:395:LEU:HB2	1:CM:497:TYR:HB2	1.99	0.45
1:CN:440:ALA:CB	1:CO:444:LEU:HD13	2.47	0.45
1:CO:252:VAL:HG22	1:CO:253:SER:N	2.32	0.45
1:CR:77:THR:O	1:CR:81:THR:CG2	2.65	0.45
1:CR:437:HIS:CE1	1:CS:405:GLN:NE2	2.85	0.45
1:AA:272:TYR:CD2	1:CT:55:ARG:CD	2.99	0.45
1:AC:423:LYS:HE2	1:AC:449:GLU:O	2.17	0.45
1:AD:234:ARG:HG2	1:AD:280:GLU:HG2	1.98	0.45
1:AE:171:ASP:HA	1:AE:172:PRO:HD3	1.79	0.45
1:AH:182:LEU:HG	1:AH:330:ILE:HB	1.98	0.45
1:AI:237:VAL:HG23	1:AI:279:PHE:CD2	2.52	0.45
1:AL:263:ASN:O	1:AL:267:LYS:HG3	2.17	0.45
1:AO:299:SER:O	1:AO:301:ARG:N	2.50	0.45
1:AT:239:ILE:HG12	1:AT:326:ILE:CD1	2.47	0.45
1:BD:234:ARG:HG2	1:BD:280:GLU:HG2	1.99	0.45
1:BF:379:VAL:HG12	1:BF:381:MET:HE2	1.99	0.45
1:BI:170:PHE:HD1	1:BI:389:MET:CE	2.30	0.45
1:BJ:163:LEU:HD12	1:BJ:163:LEU:HA	1.84	0.45
1:BJ:232:THR:HB	1:BJ:334:VAL:HG23	1.98	0.45
1:BK:232:THR:HB	1:BK:334:VAL:CG2	2.46	0.45
1:BM:263:ASN:O	1:BM:267:LYS:HG3	2.17	0.45
1:BM:423:LYS:HE2	1:BM:449:GLU:O	2.17	0.45
1:CA:163:LEU:HD12	1:CA:163:LEU:HA	1.86	0.45
1:CD:16:ALA:O	1:CD:17:ASN:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CE:162:PHE:CD2	1:CE:163:LEU:HD13	2.52	0.45
1:CF:170:PHE:HD1	1:CF:389:MET:HE2	1.82	0.45
1:CH:74:ASN:ND2	1:CH:77:THR:OG1	2.50	0.45
1:CJ:232:THR:HB	1:CJ:334:VAL:HG23	1.99	0.45
1:CS:423:LYS:HE2	1:CS:449:GLU:O	2.17	0.45
1:CT:393:HIS:CG	1:CT:496:PHE:HB3	2.51	0.45
1:AF:170:PHE:HD1	1:AF:389:MET:CE	2.30	0.44
1:AH:237:VAL:HG23	1:AH:279:PHE:CD2	2.53	0.44
1:AK:30:SER:O	1:AK:33:LYS:HB2	2.17	0.44
1:AK:182:LEU:HG	1:AK:330:ILE:HB	1.99	0.44
1:AO:234:ARG:HG2	1:AO:280:GLU:HG2	1.99	0.44
1:AP:393:HIS:CG	1:AP:496:PHE:HB3	2.51	0.44
1:AR:10:ILE:HG21	1:AR:146:TRP:CE2	2.52	0.44
1:AR:25:ILE:HG23	1:AR:152:LEU:HD11	1.99	0.44
1:AS:207:VAL:HA	1:AS:208:PRO:HD3	1.83	0.44
1:AS:454:ASN:HD21	1:AS:456:ALA:HB3	1.82	0.44
1:BA:239:ILE:HD12	1:BA:275:GLU:HA	1.98	0.44
1:BE:234:ARG:HG2	1:BE:280:GLU:HG2	1.98	0.44
1:BH:423:LYS:HE2	1:BH:449:GLU:O	2.16	0.44
1:BJ:232:THR:HB	1:BJ:334:VAL:CG2	2.47	0.44
1:BJ:239:ILE:HD12	1:BJ:275:GLU:HA	2.00	0.44
1:BL:74:ASN:ND2	1:BL:77:THR:OG1	2.50	0.44
1:BN:162:PHE:CD2	1:BN:163:LEU:HD13	2.52	0.44
1:BQ:203:THR:HB	1:BQ:300:GLN:HG3	1.99	0.44
1:CC:25:ILE:HG23	1:CC:152:LEU:HD11	1.99	0.44
1:CD:79:ARG:HG3	1:CD:79:ARG:NH1	2.14	0.44
1:CD:191:LEU:CD2	1:CD:191:LEU:N	2.77	0.44
1:CO:239:ILE:HD12	1:CO:275:GLU:HA	2.00	0.44
1:CO:379:VAL:HG11	1:CO:381:MET:HE1	1.98	0.44
1:CP:232:THR:HB	1:CP:334:VAL:HG23	1.98	0.44
1:CT:170:PHE:HD1	1:CT:389:MET:CE	2.30	0.44
1:AA:18:ARG:HG3	1:AA:19:TYR:N	2.32	0.44
1:AE:237:VAL:HG23	1:AE:279:PHE:CD2	2.53	0.44
1:AH:35:VAL:O	1:AH:39:LYS:HG3	2.18	0.44
1:AK:414:LYS:HA	1:AL:411:GLU:HB3	1.99	0.44
1:AR:162:PHE:CD1	1:AS:287:TYR:HA	2.53	0.44
1:BC:239:ILE:HD12	1:BC:275:GLU:HA	1.99	0.44
1:BE:207:VAL:HA	1:BE:208:PRO:HD3	1.83	0.44
1:BE:232:THR:HB	1:BE:334:VAL:CG2	2.47	0.44
1:BF:379:VAL:HG11	1:BF:381:MET:HE1	2.00	0.44
1:BG:263:ASN:O	1:BG:267:LYS:HG3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BI:234:ARG:HG2	1:BI:280:GLU:HG2	1.98	0.44
1:BM:58:ALA:HB2	1:BM:102:GLY:HA3	1.99	0.44
1:BM:207:VAL:HA	1:BM:208:PRO:HD3	1.86	0.44
1:BM:393:HIS:CG	1:BM:496:PHE:HB3	2.52	0.44
1:BN:272:TYR:N	1:BN:272:TYR:CD1	2.86	0.44
1:BO:189:PHE:CE2	1:BO:249:LEU:HD21	2.52	0.44
1:BP:232:THR:HB	1:BP:334:VAL:CG2	2.47	0.44
1:BP:250:TRP:CZ3	1:BP:272:TYR:CD1	3.05	0.44
1:BR:203:THR:HB	1:BR:300:GLN:HG3	1.99	0.44
1:BS:232:THR:HB	1:BS:334:VAL:CG2	2.46	0.44
1:CA:272:TYR:N	1:CA:272:TYR:CD1	2.85	0.44
1:CB:272:TYR:N	1:CB:272:TYR:CD1	2.85	0.44
1:CC:18:ARG:HG3	1:CC:19:TYR:N	2.31	0.44
1:CK:423:LYS:HE2	1:CK:449:GLU:O	2.17	0.44
1:CL:393:HIS:CG	1:CL:496:PHE:HB3	2.52	0.44
1:CN:239:ILE:HG12	1:CN:326:ILE:CD1	2.47	0.44
1:CQ:162:PHE:CD2	1:CQ:163:LEU:HD13	2.52	0.44
1:CS:239:ILE:HD12	1:CS:275:GLU:HA	1.99	0.44
1:AA:207:VAL:HA	1:AA:208:PRO:HD3	1.82	0.44
1:AE:234:ARG:HG2	1:AE:280:GLU:HG2	1.99	0.44
1:AG:423:LYS:HE2	1:AG:449:GLU:O	2.17	0.44
1:AI:272:TYR:N	1:AI:272:TYR:HD1	2.15	0.44
1:AJ:108:ILE:HG23	1:AJ:113:LEU:HD12	2.00	0.44
1:AK:232:THR:HB	1:AK:334:VAL:HG23	1.99	0.44
1:AM:207:VAL:HA	1:AM:208:PRO:HD3	1.82	0.44
1:AT:79:ARG:HH11	1:AT:79:ARG:CG	2.29	0.44
1:BB:55:ARG:NH1	1:CB:272:TYR:CD2	2.85	0.44
1:BC:234:ARG:HG2	1:BC:280:GLU:HG2	2.00	0.44
1:BF:11:PRO:HG2	1:BF:18:ARG:CD	2.48	0.44
1:BG:170:PHE:HD1	1:BG:389:MET:HE2	1.83	0.44
1:BG:454:ASN:ND2	1:BG:456:ALA:H	2.11	0.44
1:BJ:75:ARG:NH2	1:BJ:391:ALA:O	2.49	0.44
1:BJ:272:TYR:CD2	1:BQ:55:ARG:NE	2.83	0.44
1:BN:191:LEU:CD2	1:BN:191:LEU:N	2.77	0.44
1:BO:250:TRP:HZ3	1:BO:272:TYR:CE1	2.25	0.44
1:BO:393:HIS:CG	1:BO:496:PHE:HB3	2.52	0.44
1:BQ:272:TYR:N	1:BQ:272:TYR:HD1	2.15	0.44
1:CB:207:VAL:HA	1:CB:208:PRO:HD3	1.82	0.44
1:CF:371:ASP:OD1	1:CF:381:MET:HG2	2.17	0.44
1:CG:423:LYS:HE2	1:CG:449:GLU:O	2.17	0.44
1:CL:324:LEU:HD23	1:CL:324:LEU:C	2.37	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CM:241:ALA:HB1	1:CM:242:PRO:HD2	1.99	0.44
1:CM:379:VAL:HG11	1:CM:381:MET:HE1	1.99	0.44
1:CN:263:ASN:O	1:CN:267:LYS:HG3	2.18	0.44
1:CP:239:ILE:HD12	1:CP:275:GLU:HA	1.98	0.44
1:CQ:300:GLN:HE21	1:CQ:300:GLN:HB2	1.58	0.44
1:AA:42:THR:OG1	1:AB:267:LYS:O	2.26	0.44
1:AC:75:ARG:NH2	1:AC:391:ALA:O	2.51	0.44
1:AE:272:TYR:N	1:AE:272:TYR:HD1	2.15	0.44
1:AG:55:ARG:HD3	1:CG:272:TYR:HD2	1.76	0.44
1:AG:189:PHE:HD2	1:AG:247:ILE:HD11	1.81	0.44
1:AL:171:ASP:HA	1:AL:172:PRO:HD3	1.79	0.44
1:AM:423:LYS:HE2	1:AM:449:GLU:O	2.18	0.44
1:AN:436:SER:O	1:AO:487:LEU:HD21	2.17	0.44
1:AP:162:PHE:CD2	1:AP:163:LEU:HD13	2.53	0.44
1:AQ:272:TYR:CD2	1:BL:55:ARG:CZ	3.01	0.44
1:AS:188:PHE:C	1:AS:189:PHE:HD1	2.20	0.44
1:AS:423:LYS:HE2	1:AS:449:GLU:O	2.18	0.44
1:BC:61:PHE:CD2	1:BC:243:ILE:HD11	2.53	0.44
1:BE:171:ASP:HA	1:BE:172:PRO:HD3	1.78	0.44
1:BF:202:LEU:HB2	1:BF:304:SER:O	2.17	0.44
1:BH:11:PRO:HG2	1:BH:18:ARG:HD2	1.99	0.44
1:BL:30:SER:O	1:BL:33:LYS:HB2	2.16	0.44
1:BL:238:HIS:HE1	1:BL:329:GLN:OE1	2.01	0.44
1:BM:18:ARG:HG2	1:BM:20:LEU:HD23	2.00	0.44
1:BM:74:ASN:ND2	1:BM:77:THR:OG1	2.51	0.44
1:BO:22:THR:OG1	1:BO:131:HIS:CD2	2.65	0.44
1:BO:318:SER:HA	1:BO:319:GLY:HA2	1.80	0.44
1:BS:237:VAL:HG23	1:BS:279:PHE:CD2	2.53	0.44
1:CA:189:PHE:HE2	1:CA:249:LEU:HD21	1.82	0.44
1:CB:234:ARG:HG2	1:CB:280:GLU:HG2	2.00	0.44
1:CF:407:SER:HB3	1:CJ:418:SER:HB3	1.99	0.44
1:CG:11:PRO:HG2	1:CG:18:ARG:HD2	2.00	0.44
1:CG:393:HIS:CG	1:CG:496:PHE:HB3	2.52	0.44
1:CG:434:GLY:O	1:CH:349:VAL:HG23	2.18	0.44
1:CH:252:VAL:HG22	1:CH:253:SER:N	2.33	0.44
1:CI:14:CYS:H	1:CI:138:ASN:ND2	2.15	0.44
1:CI:30:SER:O	1:CI:33:LYS:HB2	2.18	0.44
1:CK:25:ILE:HG23	1:CK:152:LEU:HD11	1.99	0.44
1:CK:170:PHE:HD1	1:CK:389:MET:HE2	1.82	0.44
1:CP:404:LEU:HD22	1:CP:486:VAL:HG22	1.99	0.44
1:CR:318:SER:HA	1:CR:319:GLY:HA2	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CS:191:LEU:CD2	1:CS:191:LEU:N	2.77	0.44
1:AA:14:CYS:H	1:AA:138:ASN:ND2	2.12	0.44
1:AA:263:ASN:O	1:AA:267:LYS:HG3	2.17	0.44
1:AD:232:THR:HB	1:AD:334:VAL:HG23	2.00	0.44
1:AD:393:HIS:CG	1:AD:496:PHE:HB3	2.52	0.44
1:AE:404:LEU:HD22	1:AE:486:VAL:HG22	1.98	0.44
1:AH:252:VAL:HG22	1:AH:253:SER:N	2.32	0.44
1:AI:404:LEU:HD22	1:AI:486:VAL:HG22	1.99	0.44
1:AK:393:HIS:CG	1:AK:496:PHE:HB3	2.52	0.44
1:AL:237:VAL:HG23	1:AL:279:PHE:CD2	2.52	0.44
1:AM:189:PHE:HD2	1:AM:247:ILE:CD1	2.31	0.44
1:AN:234:ARG:HG2	1:AN:280:GLU:HG2	1.99	0.44
1:AO:237:VAL:HG23	1:AO:279:PHE:CD2	2.53	0.44
1:AO:299:SER:C	1:AO:301:ARG:N	2.68	0.44
1:AP:272:TYR:CE2	1:BE:55:ARG:CZ	3.00	0.44
1:BC:182:LEU:HG	1:BC:330:ILE:HB	1.98	0.44
1:BE:232:THR:HB	1:BE:334:VAL:HG23	2.00	0.44
1:BF:203:THR:HB	1:BF:300:GLN:HG3	1.99	0.44
1:BI:25:ILE:HG23	1:BI:152:LEU:HD11	1.99	0.44
1:BM:232:THR:HB	1:BM:334:VAL:HG23	2.00	0.44
1:BM:237:VAL:HG23	1:BM:279:PHE:CD2	2.52	0.44
1:BN:234:ARG:HG2	1:BN:280:GLU:HG2	2.00	0.44
1:BP:234:ARG:HG2	1:BP:280:GLU:HG2	2.00	0.44
1:BP:239:ILE:HD12	1:BP:275:GLU:HA	2.00	0.44
1:BR:237:VAL:HG23	1:BR:279:PHE:CD2	2.52	0.44
1:CB:237:VAL:HG23	1:CB:279:PHE:CD2	2.53	0.44
1:CC:43:ALA:HB1	1:CC:158:GLU:HA	1.99	0.44
1:CD:203:THR:HB	1:CD:300:GLN:HG3	1.98	0.44
1:CH:234:ARG:HG2	1:CH:280:GLU:HG2	2.00	0.44
1:CJ:191:LEU:O	1:CQ:144:ALA:HB3	2.17	0.44
1:CK:188:PHE:C	1:CK:189:PHE:HD1	2.21	0.44
1:CK:272:TYR:N	1:CK:272:TYR:HD1	2.16	0.44
1:CN:398:GLY:HA3	1:CN:494:PHE:CD2	2.52	0.44
1:CS:189:PHE:CE2	1:CS:249:LEU:HD21	2.53	0.44
1:CT:162:PHE:CD2	1:CT:163:LEU:HD13	2.53	0.44
1:AE:232:THR:HB	1:AE:334:VAL:CG2	2.48	0.44
1:AF:263:ASN:O	1:AF:267:LYS:HG3	2.16	0.44
1:AF:393:HIS:CG	1:AF:496:PHE:HB3	2.52	0.44
1:AG:14:CYS:H	1:AG:138:ASN:ND2	2.15	0.44
1:AK:454:ASN:HD21	1:AK:456:ALA:HB3	1.83	0.44
1:AL:191:LEU:O	1:CJ:144:ALA:HB3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:207:VAL:HA	1:AN:208:PRO:HD3	1.83	0.44
1:AO:379:VAL:HG11	1:AO:381:MET:HE1	1.99	0.44
1:AT:189:PHE:CE2	1:AT:249:LEU:HD21	2.52	0.44
1:BA:263:ASN:O	1:BA:267:LYS:HG3	2.17	0.44
1:BB:10:ILE:HA	1:BB:11:PRO:HD3	1.80	0.44
1:BE:263:ASN:O	1:BE:267:LYS:HG3	2.18	0.44
1:BK:239:ILE:HD12	1:BK:275:GLU:HA	2.00	0.44
1:BN:440:ALA:CB	1:BO:444:LEU:HD13	2.47	0.44
1:BP:226:VAL:HG13	1:BP:228:GLY:H	1.82	0.44
1:BQ:263:ASN:O	1:BQ:267:LYS:HG3	2.17	0.44
1:BQ:393:HIS:CG	1:BQ:496:PHE:HB3	2.53	0.44
1:BT:12:LYS:HB3	1:BT:144:ALA:C	2.37	0.44
1:CA:189:PHE:CE2	1:CA:249:LEU:HD21	2.53	0.44
1:CB:393:HIS:CG	1:CB:496:PHE:HB3	2.53	0.44
1:CC:393:HIS:CG	1:CC:496:PHE:HB3	2.52	0.44
1:CE:189:PHE:HD2	1:CE:247:ILE:HD11	1.81	0.44
1:CF:239:ILE:HD12	1:CF:275:GLU:HA	1.99	0.44
1:CH:423:LYS:HE2	1:CH:449:GLU:O	2.18	0.44
1:CO:79:ARG:NH1	1:CO:79:ARG:CG	2.79	0.44
1:CO:191:LEU:CD2	1:CO:191:LEU:N	2.76	0.44
1:CQ:171:ASP:HA	1:CQ:172:PRO:HD3	1.78	0.44
1:CT:79:ARG:HH11	1:CT:79:ARG:HG3	1.83	0.44
1:CT:171:ASP:HA	1:CT:172:PRO:HD3	1.79	0.44
1:CT:207:VAL:HA	1:CT:208:PRO:HD3	1.84	0.44
1:CT:423:LYS:HE2	1:CT:449:GLU:O	2.18	0.44
1:AA:170:PHE:HD1	1:AA:389:MET:CE	2.31	0.44
1:AE:232:THR:HB	1:AE:334:VAL:HG23	1.98	0.44
1:AG:252:VAL:HG22	1:AG:253:SER:N	2.33	0.44
1:AJ:170:PHE:HD1	1:AJ:389:MET:HE2	1.82	0.44
1:AL:324:LEU:C	1:AL:324:LEU:HD23	2.38	0.44
1:AM:30:SER:O	1:AM:33:LYS:HB2	2.16	0.44
1:AP:38:GLU:HB2	1:BL:35:VAL:HG22	2.00	0.44
1:AT:393:HIS:CG	1:AT:496:PHE:HB3	2.52	0.44
1:BF:25:ILE:HG23	1:BF:152:LEU:HD11	1.99	0.44
1:BF:423:LYS:HE2	1:BF:449:GLU:O	2.17	0.44
1:BG:74:ASN:ND2	1:BG:77:THR:OG1	2.51	0.44
1:BI:191:LEU:CD2	1:BI:191:LEU:N	2.74	0.44
1:BJ:182:LEU:HG	1:BJ:330:ILE:HB	1.99	0.44
1:BJ:189:PHE:HD2	1:BJ:247:ILE:CD1	2.30	0.44
1:BK:162:PHE:CD2	1:BK:163:LEU:HD13	2.53	0.44
1:BK:393:HIS:CG	1:BK:496:PHE:HB3	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BL:404:LEU:HD22	1:BL:486:VAL:HG22	1.99	0.44
1:BP:289:ARG:NH1	1:BP:337:ASP:OD1	2.51	0.44
1:BQ:234:ARG:HG2	1:BQ:280:GLU:HG2	2.00	0.44
1:BT:272:TYR:N	1:BT:272:TYR:CD1	2.86	0.44
1:CB:189:PHE:CE2	1:CB:249:LEU:HD21	2.48	0.44
1:CC:189:PHE:HD2	1:CC:247:ILE:HD11	1.82	0.44
1:CD:226:VAL:HG13	1:CD:228:GLY:H	1.82	0.44
1:CD:237:VAL:HG23	1:CD:279:PHE:CD2	2.53	0.44
1:CI:299:SER:OG	1:CI:301:ARG:HG2	2.18	0.44
1:CK:58:ALA:HB2	1:CK:102:GLY:HA3	1.99	0.44
1:CP:189:PHE:CE2	1:CP:249:LEU:HD21	2.53	0.44
1:CQ:75:ARG:NH2	1:CQ:391:ALA:O	2.48	0.44
1:CQ:239:ILE:HD12	1:CQ:275:GLU:HA	1.99	0.44
1:CQ:252:VAL:HG22	1:CQ:253:SER:N	2.33	0.44
1:CR:239:ILE:HG12	1:CR:326:ILE:CD1	2.48	0.44
1:AA:272:TYR:N	1:AA:272:TYR:HD1	2.15	0.44
1:AF:162:PHE:CD1	1:AG:287:TYR:HA	2.53	0.44
1:AF:272:TYR:N	1:AF:272:TYR:CD1	2.84	0.44
1:AH:324:LEU:HD23	1:AH:324:LEU:C	2.38	0.44
1:AH:423:LYS:HE2	1:AH:449:GLU:O	2.18	0.44
1:AI:25:ILE:HG23	1:AI:152:LEU:HD11	1.98	0.44
1:AI:250:TRP:HZ3	1:AI:272:TYR:CE1	2.31	0.44
1:AI:272:TYR:CD2	1:AO:55:ARG:NH1	2.86	0.44
1:AJ:55:ARG:CZ	1:BL:272:TYR:CE2	3.01	0.44
1:AJ:232:THR:HB	1:AJ:334:VAL:CG2	2.47	0.44
1:AJ:239:ILE:HG12	1:AJ:326:ILE:CD1	2.48	0.44
1:AJ:250:TRP:HZ3	1:AJ:272:TYR:CE1	2.29	0.44
1:AK:170:PHE:HD1	1:AK:389:MET:HE2	1.83	0.44
1:AT:170:PHE:HD1	1:AT:389:MET:HE2	1.82	0.44
1:BB:239:ILE:HD12	1:BB:275:GLU:HA	2.00	0.44
1:BC:272:TYR:N	1:BC:272:TYR:CD1	2.85	0.44
1:BN:434:GLY:O	1:BO:349:VAL:HG23	2.18	0.44
1:BP:288:HIS:HD2	1:BP:337:ASP:OD2	2.00	0.44
1:BQ:423:LYS:HE2	1:BQ:449:GLU:O	2.18	0.44
1:BS:263:ASN:O	1:BS:267:LYS:HG3	2.18	0.44
1:BT:58:ALA:HB2	1:BT:102:GLY:HA3	2.00	0.44
1:CA:239:ILE:HD12	1:CA:275:GLU:HA	2.00	0.44
1:CC:423:LYS:HE2	1:CC:449:GLU:O	2.18	0.44
1:CF:189:PHE:HD2	1:CF:247:ILE:HD11	1.81	0.44
1:CI:237:VAL:HG23	1:CI:279:PHE:CD2	2.53	0.44
1:CO:74:ASN:ND2	1:CO:77:THR:OG1	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CS:393:HIS:CG	1:CS:496:PHE:HB3	2.53	0.44
1:AC:188:PHE:C	1:AC:189:PHE:HD1	2.20	0.44
1:AC:232:THR:HB	1:AC:334:VAL:HG23	2.00	0.44
1:AC:440:ALA:CB	1:AD:444:LEU:HD13	2.48	0.44
1:AD:55:ARG:CZ	1:AN:272:TYR:CD2	3.01	0.44
1:AE:393:HIS:CG	1:AE:496:PHE:HB3	2.53	0.44
1:AF:234:ARG:HG2	1:AF:280:GLU:HG2	1.99	0.44
1:AF:272:TYR:N	1:AF:272:TYR:HD1	2.16	0.44
1:AG:262:TRP:C	1:AG:264:GLU:N	2.67	0.44
1:AH:272:TYR:N	1:AH:272:TYR:CD1	2.85	0.44
1:AK:423:LYS:HE2	1:AK:449:GLU:O	2.18	0.44
1:AM:25:ILE:HG23	1:AM:152:LEU:HD11	2.00	0.44
1:AO:171:ASP:HA	1:AO:172:PRO:HD3	1.81	0.44
1:AO:252:VAL:HG22	1:AO:253:SER:N	2.33	0.44
1:AP:170:PHE:HD1	1:AP:389:MET:CE	2.30	0.44
1:BA:170:PHE:HD1	1:BA:389:MET:HE2	1.83	0.44
1:BA:404:LEU:HD22	1:BA:486:VAL:HG22	1.98	0.44
1:BA:444:LEU:HD13	1:BE:440:ALA:CB	2.48	0.44
1:BB:16:ALA:O	1:BB:17:ASN:CB	2.64	0.44
1:BB:234:ARG:CG	1:BB:280:GLU:HG2	2.48	0.44
1:BD:163:LEU:HD12	1:BD:163:LEU:HA	1.87	0.44
1:BE:11:PRO:HG2	1:BE:18:ARG:CD	2.48	0.44
1:BM:239:ILE:HD12	1:BM:275:GLU:HA	1.99	0.44
1:BS:189:PHE:CE2	1:BS:249:LEU:HD21	2.53	0.44
1:CD:232:THR:HB	1:CD:334:VAL:CG2	2.48	0.44
1:CL:14:CYS:H	1:CL:138:ASN:ND2	2.12	0.44
1:CL:272:TYR:N	1:CL:272:TYR:CD1	2.84	0.44
1:CN:423:LYS:HE2	1:CN:449:GLU:O	2.17	0.44
1:CQ:43:ALA:HB1	1:CQ:158:GLU:HA	1.99	0.44
1:CR:86:PRO:HA	1:CR:89:THR:OG1	2.17	0.44
1:AB:454:ASN:ND2	1:AB:456:ALA:H	2.10	0.43
1:AI:207:VAL:HA	1:AI:208:PRO:HD3	1.84	0.43
1:AI:232:THR:HB	1:AI:334:VAL:HG23	1.98	0.43
1:AK:239:ILE:HD12	1:AK:275:GLU:HA	2.00	0.43
1:AL:189:PHE:CE2	1:AL:249:LEU:HD21	2.50	0.43
1:AN:238:HIS:HE1	1:AN:329:GLN:OE1	2.01	0.43
1:AQ:272:TYR:CE2	1:BL:55:ARG:CZ	3.01	0.43
1:BB:250:TRP:HZ3	1:BB:272:TYR:HE1	1.63	0.43
1:BH:272:TYR:N	1:BH:272:TYR:HD1	2.15	0.43
1:BI:203:THR:HB	1:BI:300:GLN:HG3	2.00	0.43
1:BK:272:TYR:N	1:BK:272:TYR:CD1	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BK:404:LEU:HD22	1:BK:486:VAL:HG22	1.99	0.43
1:BM:232:THR:HB	1:BM:334:VAL:CG2	2.47	0.43
1:BN:108:ILE:HG23	1:BN:113:LEU:HD12	2.00	0.43
1:BO:14:CYS:H	1:BO:138:ASN:ND2	2.14	0.43
1:BR:25:ILE:HG23	1:BR:152:LEU:HD11	2.00	0.43
1:BT:232:THR:HB	1:BT:334:VAL:HG23	2.00	0.43
1:CC:171:ASP:HA	1:CC:172:PRO:HD3	1.79	0.43
1:CE:239:ILE:HD12	1:CE:275:GLU:HA	2.00	0.43
1:CH:272:TYR:N	1:CH:272:TYR:CD1	2.86	0.43
1:CI:272:TYR:HD2	1:CO:55:ARG:HD3	1.82	0.43
1:CK:252:VAL:HG22	1:CK:253:SER:N	2.33	0.43
1:CO:272:TYR:N	1:CO:272:TYR:CD1	2.84	0.43
1:CR:226:VAL:HG13	1:CR:228:GLY:H	1.83	0.43
1:AB:442:GLN:HE21	1:AC:412:PHE:HB2	1.83	0.43
1:AC:404:LEU:HD22	1:AC:486:VAL:HG22	1.99	0.43
1:AL:22:THR:OG1	1:AL:131:HIS:CD2	2.63	0.43
1:AL:440:ALA:HB3	1:AM:444:LEU:HD13	2.00	0.43
1:AM:22:THR:OG1	1:AM:131:HIS:CD2	2.63	0.43
1:AN:30:SER:O	1:AN:33:LYS:HB2	2.19	0.43
1:AN:263:ASN:O	1:AN:267:LYS:HG3	2.17	0.43
1:AP:239:ILE:HD12	1:AP:275:GLU:HA	2.00	0.43
1:AT:55:ARG:HD3	1:BA:272:TYR:HD2	1.81	0.43
1:BB:232:THR:HB	1:BB:334:VAL:CG2	2.48	0.43
1:BC:108:ILE:HG23	1:BC:113:LEU:HD12	2.00	0.43
1:BF:252:VAL:HG22	1:BF:253:SER:N	2.33	0.43
1:BI:381:MET:HE2	1:BI:381:MET:HB2	1.84	0.43
1:BJ:191:LEU:HD23	1:BJ:191:LEU:N	2.13	0.43
1:BO:239:ILE:HD12	1:BO:275:GLU:HA	1.99	0.43
1:BS:395:LEU:HB2	1:BS:497:TYR:HB2	2.00	0.43
1:CA:18:ARG:HG3	1:CA:19:TYR:N	2.32	0.43
1:CA:58:ALA:HB2	1:CA:102:GLY:HA3	2.00	0.43
1:CG:79:ARG:CG	1:CG:79:ARG:NH1	2.70	0.43
1:CL:30:SER:O	1:CL:33:LYS:HB2	2.17	0.43
1:CN:15:GLN:OE1	1:CN:15:GLN:HA	2.17	0.43
1:CO:454:ASN:HD21	1:CO:456:ALA:HB3	1.82	0.43
1:CP:28:MET:HE2	1:CP:152:LEU:HG	2.00	0.43
1:CQ:237:VAL:HG23	1:CQ:279:PHE:CD2	2.52	0.43
1:CR:272:TYR:N	1:CR:272:TYR:CD1	2.86	0.43
1:CT:237:VAL:HG23	1:CT:279:PHE:CD2	2.53	0.43
1:AA:43:ALA:HB1	1:AA:158:GLU:HA	2.00	0.43
1:AB:38:GLU:HB2	1:BA:35:VAL:HG22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:202:LEU:HB2	1:AB:304:SER:O	2.19	0.43
1:AB:256:ASN:C	1:AB:256:ASN:HD22	2.22	0.43
1:AC:22:THR:OG1	1:AC:131:HIS:CD2	2.66	0.43
1:AC:272:TYR:N	1:AC:272:TYR:HD1	2.16	0.43
1:AG:237:VAL:HG23	1:AG:279:PHE:CD2	2.54	0.43
1:AQ:371:ASP:OD1	1:AQ:381:MET:HG2	2.18	0.43
1:AR:77:THR:O	1:AR:81:THR:HG23	2.18	0.43
1:AS:191:LEU:CD2	1:AS:191:LEU:N	2.79	0.43
1:AT:163:LEU:HD12	1:AT:163:LEU:HA	1.85	0.43
1:BB:226:VAL:HG13	1:BB:228:GLY:H	1.84	0.43
1:BC:239:ILE:HG23	1:BC:324:LEU:HD21	2.00	0.43
1:BF:237:VAL:HG23	1:BF:279:PHE:CD2	2.54	0.43
1:BH:14:CYS:H	1:BH:138:ASN:ND2	2.13	0.43
1:BH:163:LEU:HD12	1:BH:163:LEU:HA	1.85	0.43
1:BI:35:VAL:HG22	1:BQ:38:GLU:HB2	1.99	0.43
1:BL:67:VAL:HG23	1:BL:135:LEU:HB2	1.98	0.43
1:CA:237:VAL:HG23	1:CA:279:PHE:CD2	2.53	0.43
1:CB:324:LEU:HD23	1:CB:324:LEU:C	2.37	0.43
1:CE:171:ASP:HA	1:CE:172:PRO:HD3	1.80	0.43
1:CF:189:PHE:HE1	1:CF:198:ARG:HG2	1.76	0.43
1:CG:237:VAL:HG23	1:CG:279:PHE:CD2	2.53	0.43
1:CH:404:LEU:HD22	1:CH:486:VAL:HG22	1.99	0.43
1:CI:234:ARG:HG2	1:CI:280:GLU:HG2	1.99	0.43
1:CI:239:ILE:HG12	1:CI:326:ILE:CD1	2.48	0.43
1:CJ:232:THR:HB	1:CJ:334:VAL:CG2	2.47	0.43
1:CO:182:LEU:C	1:CO:182:LEU:HD12	2.38	0.43
1:CR:232:THR:HB	1:CR:334:VAL:HG23	2.00	0.43
1:CS:237:VAL:HG23	1:CS:279:PHE:CD2	2.53	0.43
1:AA:8:ILE:HG22	1:AA:10:ILE:CD1	2.49	0.43
1:AB:454:ASN:HD21	1:AB:456:ALA:HB3	1.82	0.43
1:AC:232:THR:HB	1:AC:334:VAL:CG2	2.49	0.43
1:AC:252:VAL:HG22	1:AC:253:SER:N	2.33	0.43
1:AF:423:LYS:HE2	1:AF:449:GLU:O	2.18	0.43
1:AG:38:GLU:HB2	1:CF:35:VAL:CG2	2.49	0.43
1:AH:55:ARG:NH1	1:AK:272:TYR:CD2	2.86	0.43
1:AH:272:TYR:N	1:AH:272:TYR:HD1	2.16	0.43
1:AJ:207:VAL:HA	1:AJ:208:PRO:HD3	1.80	0.43
1:AK:252:VAL:HG22	1:AK:253:SER:N	2.33	0.43
1:AM:454:ASN:HD22	1:AM:454:ASN:C	2.22	0.43
1:AN:300:GLN:HE21	1:AN:300:GLN:HB2	1.60	0.43
1:AO:250:TRP:CZ3	1:AO:272:TYR:CD1	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:263:ASN:O	1:AO:267:LYS:HG3	2.17	0.43
1:AO:272:TYR:CD2	1:AR:55:ARG:CZ	3.01	0.43
1:AO:401:ASP:O	1:AO:488:CYS:HA	2.19	0.43
1:AP:318:SER:HA	1:AP:319:GLY:HA2	1.76	0.43
1:AR:252:VAL:HG22	1:AR:253:SER:N	2.33	0.43
1:AS:74:ASN:ND2	1:AS:77:THR:OG1	2.52	0.43
1:AT:30:SER:O	1:AT:33:LYS:HB2	2.19	0.43
1:BD:423:LYS:HE2	1:BD:449:GLU:O	2.17	0.43
1:BD:454:ASN:HD21	1:BD:456:ALA:HB3	1.82	0.43
1:BD:454:ASN:ND2	1:BD:456:ALA:H	2.14	0.43
1:BI:11:PRO:HG2	1:BI:18:ARG:HD2	2.00	0.43
1:BJ:10:ILE:CD1	1:BJ:20:LEU:HD13	2.49	0.43
1:BO:61:PHE:CD2	1:BO:243:ILE:HD11	2.53	0.43
1:BQ:324:LEU:HD23	1:BQ:324:LEU:C	2.39	0.43
1:BT:314:PRO:HB3	1:BT:324:LEU:HD13	2.01	0.43
1:BT:318:SER:HA	1:BT:319:GLY:HA2	1.81	0.43
1:BT:371:ASP:OD1	1:BT:381:MET:HG2	2.19	0.43
1:CE:371:ASP:OD1	1:CE:381:MET:HG2	2.18	0.43
1:CE:423:LYS:HE2	1:CE:449:GLU:O	2.17	0.43
1:CG:232:THR:HB	1:CG:334:VAL:CG2	2.48	0.43
1:CI:324:LEU:HD23	1:CI:324:LEU:C	2.38	0.43
1:CO:207:VAL:HA	1:CO:208:PRO:HD3	1.83	0.43
1:CP:25:ILE:HG23	1:CP:152:LEU:HD11	2.01	0.43
1:CP:170:PHE:HD1	1:CP:389:MET:CE	2.30	0.43
1:CP:256:ASN:HD22	1:CP:302:ASP:HA	1.84	0.43
1:AA:55:ARG:CZ	1:CC:272:TYR:CD2	3.02	0.43
1:AA:454:ASN:HD21	1:AA:456:ALA:HB3	1.84	0.43
1:AB:371:ASP:OD1	1:AB:381:MET:HG2	2.19	0.43
1:AC:300:GLN:HE21	1:AC:300:GLN:HB2	1.53	0.43
1:AF:55:ARG:CZ	1:BH:272:TYR:CE2	3.01	0.43
1:AF:404:LEU:HD22	1:AF:486:VAL:HG22	2.00	0.43
1:AK:232:THR:HB	1:AK:334:VAL:CG2	2.49	0.43
1:AK:237:VAL:HG23	1:AK:279:PHE:CD2	2.54	0.43
1:AL:55:ARG:HD3	1:CQ:272:TYR:HD2	1.80	0.43
1:AQ:226:VAL:HG13	1:AQ:228:GLY:H	1.83	0.43
1:AR:440:ALA:CB	1:AS:444:LEU:HD13	2.49	0.43
1:BB:203:THR:HB	1:BB:300:GLN:HG3	2.00	0.43
1:BB:238:HIS:HE1	1:BB:329:GLN:OE1	2.02	0.43
1:BC:18:ARG:HG2	1:BC:20:LEU:HD23	2.01	0.43
1:BF:170:PHE:HD1	1:BF:389:MET:HE2	1.83	0.43
1:BG:189:PHE:HD2	1:BG:247:ILE:CD1	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BG:404:LEU:HD23	1:BG:404:LEU:N	2.32	0.43
1:BH:379:VAL:HG11	1:BH:381:MET:HE1	2.00	0.43
1:BI:189:PHE:CE2	1:BI:249:LEU:HD21	2.45	0.43
1:BK:170:PHE:HD1	1:BK:389:MET:CE	2.32	0.43
1:BL:226:VAL:HG13	1:BL:228:GLY:H	1.82	0.43
1:BO:61:PHE:CE2	1:BO:243:ILE:HD11	2.53	0.43
1:BP:55:ARG:CZ	1:CM:272:TYR:CE2	3.01	0.43
1:BP:79:ARG:HG3	1:BP:79:ARG:NH1	2.26	0.43
1:CD:239:ILE:HD12	1:CD:275:GLU:HA	1.99	0.43
1:CH:232:THR:HB	1:CH:334:VAL:CG2	2.49	0.43
1:CJ:25:ILE:HG23	1:CJ:152:LEU:HD11	2.01	0.43
1:CJ:189:PHE:HD2	1:CJ:247:ILE:HD11	1.83	0.43
1:CJ:324:LEU:C	1:CJ:324:LEU:HD23	2.39	0.43
1:CL:272:TYR:N	1:CL:272:TYR:HD1	2.16	0.43
1:CO:250:TRP:CE3	1:CO:272:TYR:CD1	3.07	0.43
1:CO:404:LEU:N	1:CO:404:LEU:HD23	2.32	0.43
1:CP:226:VAL:HG13	1:CP:228:GLY:H	1.82	0.43
1:AB:43:ALA:HB1	1:AB:158:GLU:HA	2.01	0.43
1:AB:404:LEU:HD22	1:AB:486:VAL:HG22	2.00	0.43
1:AC:226:VAL:HG13	1:AC:228:GLY:H	1.83	0.43
1:AC:234:ARG:HG2	1:AC:280:GLU:HG2	2.00	0.43
1:AE:55:ARG:NH1	1:CP:272:TYR:CD2	2.86	0.43
1:AG:254:GLU:OE1	1:AG:259:THR:CG2	2.67	0.43
1:AK:10:ILE:HA	1:AK:11:PRO:HD3	1.88	0.43
1:AK:61:PHE:CD2	1:AK:243:ILE:HD11	2.54	0.43
1:AM:189:PHE:HD2	1:AM:247:ILE:HD11	1.83	0.43
1:AM:237:VAL:HG23	1:AM:279:PHE:CD2	2.54	0.43
1:AO:189:PHE:CE2	1:AO:249:LEU:HD21	2.53	0.43
1:AO:423:LYS:HE2	1:AO:449:GLU:O	2.18	0.43
1:AQ:234:ARG:CG	1:AQ:280:GLU:HG2	2.49	0.43
1:BC:379:VAL:HG11	1:BC:381:MET:HE1	1.99	0.43
1:BC:423:LYS:HE2	1:BC:449:GLU:O	2.19	0.43
1:BD:272:TYR:CE2	1:BS:55:ARG:CZ	3.01	0.43
1:BF:189:PHE:HD2	1:BF:247:ILE:HD11	1.82	0.43
1:BH:189:PHE:HD2	1:BH:247:ILE:HD11	1.83	0.43
1:BI:272:TYR:N	1:BI:272:TYR:HD1	2.16	0.43
1:BJ:201:GLY:HA3	1:BJ:300:GLN:HG2	2.00	0.43
1:BP:55:ARG:NE	1:CM:272:TYR:HE2	2.10	0.43
1:BP:182:LEU:HG	1:BP:330:ILE:HB	1.99	0.43
1:BP:379:VAL:HG11	1:BP:381:MET:HE1	2.00	0.43
1:BS:28:MET:HE2	1:BS:152:LEU:HG	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:318:SER:HA	1:CA:319:GLY:HA2	1.77	0.43
1:CB:226:VAL:HG13	1:CB:228:GLY:H	1.84	0.43
1:CG:252:VAL:HG22	1:CG:253:SER:N	2.34	0.43
1:CJ:250:TRP:HZ3	1:CJ:272:TYR:HE1	1.58	0.43
1:CL:58:ALA:HB2	1:CL:102:GLY:HA3	2.00	0.43
1:CR:14:CYS:H	1:CR:138:ASN:ND2	2.15	0.43
1:CS:170:PHE:HD1	1:CS:389:MET:CE	2.31	0.43
1:CT:239:ILE:HD12	1:CT:275:GLU:HA	2.01	0.43
1:AD:55:ARG:NE	1:AN:272:TYR:HE2	2.11	0.43
1:AE:255:TRP:CE3	1:AE:285:SER:HB2	2.53	0.43
1:AH:171:ASP:HA	1:AH:172:PRO:HD3	1.78	0.43
1:AI:239:ILE:HD12	1:AI:275:GLU:HA	2.01	0.43
1:AN:14:CYS:H	1:AN:138:ASN:ND2	2.17	0.43
1:AQ:237:VAL:HG23	1:AQ:279:PHE:CD2	2.54	0.43
1:AR:442:GLN:NE2	1:AS:412:PHE:HB2	2.34	0.43
1:BB:263:ASN:O	1:BB:267:LYS:HG3	2.18	0.43
1:BC:11:PRO:HG2	1:BC:18:ARG:HD2	2.00	0.43
1:BE:404:LEU:HD22	1:BE:486:VAL:HG22	2.00	0.43
1:BF:232:THR:HB	1:BF:334:VAL:HG23	2.00	0.43
1:BF:272:TYR:N	1:BF:272:TYR:CD1	2.84	0.43
1:BF:437:HIS:CE1	1:BG:405:GLN:NE2	2.87	0.43
1:BG:318:SER:HA	1:BG:319:GLY:HA2	1.81	0.43
1:BH:15:GLN:NE2	1:BH:15:GLN:CA	2.80	0.43
1:BK:234:ARG:HG2	1:BK:280:GLU:HG2	1.99	0.43
1:BK:440:ALA:CB	1:BL:444:LEU:HD13	2.48	0.43
1:BN:232:THR:HB	1:BN:334:VAL:HG23	2.00	0.43
1:BO:250:TRP:HE3	1:BO:272:TYR:CD1	2.36	0.43
1:BO:423:LYS:HE2	1:BO:449:GLU:O	2.19	0.43
1:BP:207:VAL:HA	1:BP:208:PRO:HD3	1.83	0.43
1:BT:226:VAL:HG13	1:BT:228:GLY:H	1.83	0.43
1:CA:79:ARG:HG3	1:CA:79:ARG:NH1	2.29	0.43
1:CD:234:ARG:HG2	1:CD:280:GLU:HG2	1.99	0.43
1:CE:25:ILE:HG23	1:CE:152:LEU:HD11	2.01	0.43
1:CE:43:ALA:HB1	1:CE:158:GLU:HA	2.00	0.43
1:CE:324:LEU:HA	1:CE:325:PRO:HD3	1.85	0.43
1:CK:232:THR:HB	1:CK:334:VAL:CG2	2.49	0.43
1:CN:404:LEU:HD22	1:CN:486:VAL:HG22	2.00	0.43
1:CO:188:PHE:C	1:CO:189:PHE:HD1	2.22	0.43
1:CP:163:LEU:HD12	1:CP:163:LEU:HA	1.90	0.43
1:AA:423:LYS:HE2	1:AA:449:GLU:O	2.18	0.43
1:AC:170:PHE:HD1	1:AC:389:MET:CE	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:170:PHE:HD1	1:AC:389:MET:HE2	1.82	0.43
1:AE:272:TYR:CE2	1:AM:55:ARG:CZ	3.01	0.43
1:AK:440:ALA:CB	1:AL:444:LEU:HD13	2.49	0.43
1:AL:404:LEU:N	1:AL:404:LEU:HD23	2.34	0.43
1:AL:418:SER:HB3	1:AM:407:SER:CB	2.49	0.43
1:AQ:170:PHE:HD1	1:AQ:389:MET:HE2	1.84	0.43
1:AR:55:ARG:HG2	1:AR:55:ARG:HH11	1.83	0.43
1:AR:440:ALA:HB3	1:AS:444:LEU:HD13	2.01	0.43
1:AT:207:VAL:HA	1:AT:208:PRO:HD3	1.85	0.43
1:AT:237:VAL:HG23	1:AT:279:PHE:CD2	2.54	0.43
1:BG:423:LYS:HE2	1:BG:449:GLU:O	2.18	0.43
1:BI:55:ARG:CD	1:BR:272:TYR:CD2	2.98	0.43
1:BI:300:GLN:HE21	1:BI:300:GLN:HB2	1.61	0.43
1:BI:404:LEU:N	1:BI:404:LEU:HD23	2.33	0.43
1:BK:207:VAL:HA	1:BK:208:PRO:HD3	1.86	0.43
1:BL:234:ARG:HG2	1:BL:280:GLU:HG2	2.00	0.43
1:BL:437:HIS:CE1	1:BM:405:GLN:NE2	2.86	0.43
1:BN:437:HIS:CE1	1:BO:405:GLN:NE2	2.86	0.43
1:BO:237:VAL:HG23	1:BO:279:PHE:CD2	2.53	0.43
1:BP:300:GLN:HE21	1:BP:300:GLN:HB2	1.58	0.43
1:BP:393:HIS:CG	1:BP:496:PHE:HB3	2.54	0.43
1:CA:423:LYS:HE2	1:CA:449:GLU:O	2.19	0.43
1:CB:79:ARG:HG3	1:CB:79:ARG:NH1	2.30	0.43
1:CB:272:TYR:N	1:CB:272:TYR:HD1	2.16	0.43
1:CD:189:PHE:HE2	1:CD:249:LEU:CD2	2.31	0.43
1:CD:272:TYR:CD2	1:CS:55:ARG:CD	2.97	0.43
1:CF:324:LEU:HD23	1:CF:324:LEU:C	2.39	0.43
1:CH:79:ARG:NH1	1:CH:79:ARG:CG	2.77	0.43
1:CH:272:TYR:N	1:CH:272:TYR:HD1	2.17	0.43
1:CI:272:TYR:CE2	1:CO:55:ARG:CZ	3.01	0.43
1:CI:272:TYR:CE2	1:CO:55:ARG:HD3	2.52	0.43
1:CL:423:LYS:HE2	1:CL:449:GLU:O	2.18	0.43
1:AB:189:PHE:HD2	1:AB:247:ILE:HD11	1.83	0.43
1:AM:10:ILE:HA	1:AM:11:PRO:HD3	1.89	0.43
1:AQ:440:ALA:HB3	1:AR:444:LEU:HD13	2.00	0.43
1:AT:232:THR:HB	1:AT:334:VAL:CG2	2.48	0.43
1:BA:487:LEU:HD21	1:BE:436:SER:O	2.19	0.43
1:BC:18:ARG:NH1	1:BC:18:ARG:HB2	2.34	0.43
1:BE:189:PHE:HD2	1:BE:247:ILE:HD11	1.83	0.43
1:BF:239:ILE:HD12	1:BF:275:GLU:HA	1.99	0.43
1:BH:171:ASP:HA	1:BH:172:PRO:HD3	1.78	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BK:226:VAL:HG13	1:BK:228:GLY:H	1.83	0.43
1:BM:404:LEU:HD22	1:BM:486:VAL:HG22	2.00	0.43
1:BP:201:GLY:HA3	1:BP:300:GLN:HG2	1.99	0.43
1:BQ:272:TYR:CE2	1:CL:55:ARG:CZ	3.02	0.43
1:BR:14:CYS:H	1:BR:138:ASN:HD21	1.65	0.43
1:BS:239:ILE:HD12	1:BS:275:GLU:HA	2.01	0.43
1:CA:263:ASN:O	1:CA:267:LYS:HG3	2.18	0.43
1:CD:162:PHE:CD2	1:CD:163:LEU:HD13	2.53	0.43
1:CD:189:PHE:HD2	1:CD:247:ILE:HD11	1.83	0.43
1:CD:379:VAL:HG11	1:CD:381:MET:HE1	2.00	0.43
1:CD:418:SER:HB3	1:CE:407:SER:CB	2.49	0.43
1:CF:22:THR:OG1	1:CF:131:HIS:CD2	2.63	0.43
1:CL:9:TYR:HE1	1:CL:147:GLN:NE2	2.12	0.43
1:CM:189:PHE:HD2	1:CM:247:ILE:HD11	1.84	0.43
1:CM:423:LYS:HE2	1:CM:449:GLU:O	2.19	0.43
1:CN:171:ASP:HA	1:CN:172:PRO:HD3	1.78	0.43
1:CO:232:THR:HB	1:CO:334:VAL:CG2	2.49	0.43
1:CP:318:SER:HA	1:CP:319:GLY:HA2	1.75	0.43
1:AB:404:LEU:N	1:AB:404:LEU:HD23	2.34	0.43
1:AC:272:TYR:CD2	1:BA:55:ARG:HD3	2.54	0.43
1:AD:55:ARG:HD3	1:AN:272:TYR:HD2	1.83	0.43
1:AG:436:SER:O	1:AH:487:LEU:HD21	2.18	0.43
1:AI:232:THR:HB	1:AI:334:VAL:CG2	2.48	0.43
1:AJ:263:ASN:O	1:AJ:267:LYS:HG3	2.18	0.43
1:AK:404:LEU:HD22	1:AK:486:VAL:HG22	2.00	0.43
1:AK:437:HIS:CE1	1:AL:405:GLN:NE2	2.87	0.43
1:AN:189:PHE:HE1	1:AN:198:ARG:HG2	1.78	0.43
1:AN:423:LYS:HE2	1:AN:449:GLU:O	2.19	0.43
1:AP:171:ASP:HA	1:AP:172:PRO:HD3	1.79	0.43
1:AQ:404:LEU:N	1:AQ:404:LEU:HD23	2.34	0.43
1:BA:191:LEU:CD2	1:BA:191:LEU:N	2.77	0.43
1:BC:170:PHE:HD1	1:BC:389:MET:CE	2.32	0.43
1:BD:207:VAL:HA	1:BD:208:PRO:HD3	1.81	0.43
1:BE:272:TYR:N	1:BE:272:TYR:HD1	2.16	0.43
1:BJ:25:ILE:HG23	1:BJ:152:LEU:HD11	2.01	0.43
1:BK:252:VAL:HG22	1:BK:253:SER:N	2.33	0.43
1:BK:440:ALA:HB3	1:BL:444:LEU:HD13	2.01	0.43
1:BL:423:LYS:HE2	1:BL:449:GLU:O	2.18	0.43
1:BP:232:THR:HB	1:BP:334:VAL:HG23	2.01	0.43
1:BS:11:PRO:HG2	1:BS:18:ARG:HD2	2.01	0.43
1:BT:252:VAL:HG22	1:BT:253:SER:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CC:18:ARG:HG2	1:CC:20:LEU:HD23	2.01	0.43
1:CD:25:ILE:HG23	1:CD:152:LEU:HD11	2.01	0.43
1:CD:404:LEU:HD22	1:CD:486:VAL:HG22	2.00	0.43
1:CE:252:VAL:HG22	1:CE:253:SER:N	2.33	0.43
1:CE:256:ASN:HD22	1:CE:302:ASP:HA	1.84	0.43
1:CF:272:TYR:N	1:CF:272:TYR:HD1	2.16	0.43
1:CI:378:ARG:CD	1:CI:379:VAL:H	2.31	0.43
1:CN:189:PHE:CE2	1:CN:249:LEU:HD21	2.44	0.43
1:CO:58:ALA:HB2	1:CO:102:GLY:HA3	1.99	0.43
1:CP:454:ASN:HD21	1:CP:456:ALA:HB3	1.84	0.43
1:CQ:423:LYS:HE2	1:CQ:449:GLU:O	2.19	0.43
1:AB:232:THR:HB	1:AB:334:VAL:CG2	2.49	0.42
1:AD:10:ILE:CD1	1:AD:20:LEU:HD13	2.49	0.42
1:AD:11:PRO:HG2	1:AD:18:ARG:CD	2.48	0.42
1:AD:272:TYR:HD2	1:AS:55:ARG:HD3	1.81	0.42
1:AE:263:ASN:O	1:AE:267:LYS:HG3	2.19	0.42
1:AI:442:GLN:NE2	1:AJ:412:PHE:HB2	2.34	0.42
1:AL:9:TYR:CE1	1:AL:147:GLN:NE2	2.87	0.42
1:AM:170:PHE:HD1	1:AM:389:MET:CE	2.32	0.42
1:AP:163:LEU:HD12	1:AP:163:LEU:HA	1.90	0.42
1:AR:207:VAL:HA	1:AR:208:PRO:HD3	1.84	0.42
1:AT:191:LEU:HD23	1:AT:191:LEU:N	2.21	0.42
1:BA:324:LEU:HD23	1:BA:324:LEU:C	2.39	0.42
1:BF:189:PHE:CE2	1:BF:249:LEU:HD21	2.49	0.42
1:BF:226:VAL:HG13	1:BF:228:GLY:H	1.84	0.42
1:BG:324:LEU:HD23	1:BG:324:LEU:C	2.40	0.42
1:BH:252:VAL:HG22	1:BH:253:SER:N	2.33	0.42
1:BL:372:PHE:H	1:BL:381:MET:HE1	1.84	0.42
1:BN:163:LEU:HD12	1:BN:163:LEU:HA	1.89	0.42
1:BO:454:ASN:ND2	1:BO:456:ALA:H	2.12	0.42
1:CA:188:PHE:C	1:CA:189:PHE:HD1	2.21	0.42
1:CC:454:ASN:HD21	1:CC:456:ALA:HB3	1.82	0.42
1:CD:14:CYS:H	1:CD:138:ASN:ND2	2.13	0.42
1:CH:25:ILE:HG23	1:CH:152:LEU:HD11	2.01	0.42
1:CI:25:ILE:HG23	1:CI:152:LEU:HD11	2.01	0.42
1:CL:318:SER:HA	1:CL:319:GLY:HA2	1.79	0.42
1:CM:189:PHE:HE1	1:CM:198:ARG:HG2	1.76	0.42
1:CO:243:ILE:HD13	1:CR:61:PHE:CZ	2.54	0.42
1:AC:18:ARG:HG3	1:AC:19:TYR:N	2.34	0.42
1:AC:404:LEU:N	1:AC:404:LEU:HD23	2.34	0.42
1:AE:61:PHE:CZ	1:CP:243:ILE:HD13	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AF:55:ARG:CZ	1:BH:272:TYR:CD2	3.02	0.42
1:AG:234:ARG:CG	1:AG:280:GLU:HG2	2.49	0.42
1:AH:404:LEU:HD22	1:AH:486:VAL:HG22	2.00	0.42
1:AI:55:ARG:HD2	1:AR:272:TYR:HE2	1.81	0.42
1:AJ:272:TYR:CD2	1:AQ:55:ARG:CD	3.00	0.42
1:AK:189:PHE:HE2	1:AK:249:LEU:HD21	1.84	0.42
1:AL:423:LYS:HE2	1:AL:449:GLU:O	2.19	0.42
1:AM:182:LEU:C	1:AM:182:LEU:HD12	2.39	0.42
1:AP:234:ARG:HG2	1:AP:280:GLU:HG2	2.01	0.42
1:AP:423:LYS:HE2	1:AP:449:GLU:O	2.19	0.42
1:AT:25:ILE:HG23	1:AT:152:LEU:HD11	2.01	0.42
1:BA:226:VAL:HG13	1:BA:228:GLY:H	1.84	0.42
1:BG:11:PRO:HG2	1:BG:18:ARG:CD	2.49	0.42
1:BG:237:VAL:HG23	1:BG:279:PHE:CD2	2.54	0.42
1:BG:381:MET:HE2	1:BG:381:MET:HB2	1.80	0.42
1:BK:263:ASN:O	1:BK:267:LYS:HG3	2.20	0.42
1:BP:250:TRP:HZ3	1:BP:272:TYR:CE1	2.27	0.42
1:BR:79:ARG:CG	1:BR:79:ARG:NH1	2.77	0.42
1:BS:207:VAL:HA	1:BS:208:PRO:HD3	1.85	0.42
1:CB:189:PHE:HD2	1:CB:247:ILE:HD11	1.83	0.42
1:CC:232:THR:HB	1:CC:334:VAL:CG2	2.50	0.42
1:CF:25:ILE:HG23	1:CF:152:LEU:HD11	2.01	0.42
1:CF:300:GLN:HE21	1:CF:300:GLN:HB2	1.57	0.42
1:CH:393:HIS:CG	1:CH:496:PHE:HB3	2.53	0.42
1:CI:263:ASN:O	1:CI:267:LYS:HG3	2.18	0.42
1:CL:189:PHE:CE2	1:CL:249:LEU:HD21	2.54	0.42
1:CM:207:VAL:HA	1:CM:208:PRO:HD3	1.85	0.42
1:CN:191:LEU:CD2	1:CN:191:LEU:N	2.75	0.42
1:CP:454:ASN:ND2	1:CP:456:ALA:H	2.13	0.42
1:CR:418:SER:HB3	1:CS:407:SER:HB3	2.01	0.42
1:AA:232:THR:HB	1:AA:334:VAL:HG23	2.01	0.42
1:AC:272:TYR:CE2	1:BA:55:ARG:CZ	3.03	0.42
1:AE:55:ARG:CD	1:CP:272:TYR:CD2	2.98	0.42
1:AJ:285:SER:HA	1:AJ:286:PRO:HD3	1.91	0.42
1:AJ:318:SER:HA	1:AJ:319:GLY:HA2	1.80	0.42
1:AL:272:TYR:N	1:AL:272:TYR:CD1	2.86	0.42
1:AL:395:LEU:HB2	1:AL:497:TYR:HB2	2.01	0.42
1:AQ:182:LEU:HD12	1:AQ:182:LEU:C	2.40	0.42
1:AR:74:ASN:ND2	1:AR:77:THR:OG1	2.52	0.42
1:BD:263:ASN:O	1:BD:267:LYS:HG3	2.19	0.42
1:BF:75:ARG:NH2	1:BF:391:ALA:O	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:191:LEU:HD23	1:BF:191:LEU:N	2.19	0.42
1:BG:15:GLN:HA	1:BG:15:GLN:NE2	2.30	0.42
1:BH:33:LYS:O	1:BH:33:LYS:CG	2.62	0.42
1:BI:234:ARG:CG	1:BI:280:GLU:HG2	2.49	0.42
1:BK:25:ILE:HG23	1:BK:152:LEU:HD11	2.01	0.42
1:BM:182:LEU:C	1:BM:182:LEU:HD12	2.39	0.42
1:BM:203:THR:CB	1:BM:300:GLN:HG3	2.49	0.42
1:BO:11:PRO:HG2	1:BO:18:ARG:HD2	2.01	0.42
1:BP:170:PHE:HD1	1:BP:389:MET:CE	2.32	0.42
1:CE:22:THR:OG1	1:CE:131:HIS:CD2	2.58	0.42
1:CN:272:TYR:CD1	1:CN:272:TYR:N	2.87	0.42
1:CO:234:ARG:CG	1:CO:280:GLU:HG2	2.50	0.42
1:AA:404:LEU:HD22	1:AA:486:VAL:HG22	2.00	0.42
1:AC:440:ALA:HB3	1:AD:444:LEU:HD13	2.02	0.42
1:AF:347:TYR:O	1:AJ:435:PRO:HB3	2.18	0.42
1:AH:14:CYS:H	1:AH:138:ASN:ND2	2.16	0.42
1:AI:404:LEU:N	1:AI:404:LEU:HD23	2.34	0.42
1:AN:252:VAL:HG22	1:AN:253:SER:N	2.34	0.42
1:AP:188:PHE:C	1:AP:189:PHE:HD1	2.22	0.42
1:AQ:272:TYR:N	1:AQ:272:TYR:CD1	2.85	0.42
1:AS:202:LEU:HD23	1:AS:202:LEU:HA	1.92	0.42
1:BA:73:TYR:CE2	1:BA:394:GLY:HA3	2.54	0.42
1:BA:189:PHE:HD2	1:BA:247:ILE:CD1	2.33	0.42
1:BA:423:LYS:HE2	1:BA:449:GLU:O	2.19	0.42
1:BD:300:GLN:HE21	1:BD:300:GLN:HB2	1.51	0.42
1:BF:79:ARG:CG	1:BF:79:ARG:NH1	2.80	0.42
1:BF:272:TYR:N	1:BF:272:TYR:HD1	2.17	0.42
1:BJ:324:LEU:HA	1:BJ:325:PRO:HD3	1.84	0.42
1:BJ:423:LYS:HE2	1:BJ:449:GLU:O	2.18	0.42
1:BL:7:VAL:HG12	1:BL:9:TYR:CE2	2.55	0.42
1:BO:175:PHE:CD2	1:BO:175:PHE:O	2.72	0.42
1:BP:25:ILE:HG23	1:BP:152:LEU:HD11	2.01	0.42
1:BS:239:ILE:HG23	1:BS:324:LEU:HD21	2.02	0.42
1:CD:43:ALA:HB1	1:CD:158:GLU:HA	2.00	0.42
1:CE:237:VAL:HG23	1:CE:279:PHE:CD2	2.54	0.42
1:CJ:171:ASP:HA	1:CJ:172:PRO:HD3	1.78	0.42
1:CJ:252:VAL:HG22	1:CJ:253:SER:N	2.35	0.42
1:CJ:404:LEU:HD22	1:CJ:486:VAL:HG22	1.99	0.42
1:CM:324:LEU:HA	1:CM:325:PRO:HD3	1.89	0.42
1:CN:404:LEU:N	1:CN:404:LEU:HD23	2.35	0.42
1:CO:189:PHE:CE2	1:CO:249:LEU:HD21	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CP:171:ASP:HA	1:CP:172:PRO:HD3	1.76	0.42
1:CP:234:ARG:HG2	1:CP:280:GLU:HG2	1.99	0.42
1:CT:234:ARG:HG2	1:CT:280:GLU:HG2	2.01	0.42
1:AA:300:GLN:HE21	1:AA:300:GLN:HB2	1.61	0.42
1:AE:379:VAL:HG11	1:AE:381:MET:HE1	2.01	0.42
1:AG:265:LEU:C	1:AG:265:LEU:CD1	2.51	0.42
1:AI:454:ASN:ND2	1:AI:456:ALA:H	2.12	0.42
1:AJ:163:LEU:HD12	1:AJ:163:LEU:HA	1.88	0.42
1:AK:340:LEU:HD23	1:AK:340:LEU:HA	1.89	0.42
1:AM:324:LEU:HD23	1:AM:324:LEU:C	2.40	0.42
1:AO:229:MET:O	1:AO:290:THR:HG22	2.19	0.42
1:AP:189:PHE:HD2	1:AP:247:ILE:HD11	1.83	0.42
1:AQ:423:LYS:HE2	1:AQ:449:GLU:O	2.20	0.42
1:AR:226:VAL:HG13	1:AR:228:GLY:H	1.85	0.42
1:BD:188:PHE:C	1:BD:189:PHE:HD1	2.23	0.42
1:BE:170:PHE:HD1	1:BE:389:MET:HE2	1.84	0.42
1:BI:182:LEU:C	1:BI:182:LEU:HD12	2.40	0.42
1:BK:423:LYS:HE2	1:BK:449:GLU:O	2.19	0.42
1:BM:171:ASP:HA	1:BM:172:PRO:HD3	1.79	0.42
1:BP:404:LEU:HD22	1:BP:486:VAL:HG22	2.01	0.42
1:BR:182:LEU:HG	1:BR:330:ILE:HB	2.01	0.42
1:BS:272:TYR:N	1:BS:272:TYR:CD1	2.88	0.42
1:BT:182:LEU:C	1:BT:182:LEU:HD12	2.39	0.42
1:CA:19:TYR:CZ	1:CA:81:THR:HG22	2.55	0.42
1:CA:36:GLN:HE22	1:CA:156:LEU:H	1.64	0.42
1:CC:263:ASN:O	1:CC:267:LYS:HG3	2.19	0.42
1:CH:14:CYS:H	1:CH:138:ASN:ND2	2.18	0.42
1:CJ:22:THR:OG1	1:CJ:131:HIS:CD2	2.60	0.42
1:CL:191:LEU:HD23	1:CL:191:LEU:N	2.19	0.42
1:CM:252:VAL:HG22	1:CM:253:SER:N	2.35	0.42
1:CR:324:LEU:C	1:CR:324:LEU:HD23	2.40	0.42
1:AA:239:ILE:HG23	1:AA:324:LEU:HD21	2.01	0.42
1:AB:372:PHE:H	1:AB:381:MET:HE1	1.85	0.42
1:AB:423:LYS:HE2	1:AB:449:GLU:O	2.20	0.42
1:AC:74:ASN:ND2	1:AC:77:THR:OG1	2.53	0.42
1:AD:239:ILE:HD12	1:AD:275:GLU:HA	2.01	0.42
1:AE:74:ASN:ND2	1:AE:77:THR:OG1	2.53	0.42
1:AF:74:ASN:ND2	1:AF:77:THR:OG1	2.53	0.42
1:AF:241:ALA:HB1	1:AF:242:PRO:HD2	2.02	0.42
1:AF:371:ASP:OD1	1:AF:381:MET:HG2	2.20	0.42
1:AG:418:SER:HB3	1:AH:407:SER:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:263:ASN:HD22	1:AQ:5:ARG:HD3	1.84	0.42
1:AJ:423:LYS:HE2	1:AJ:449:GLU:O	2.20	0.42
1:AK:14:CYS:HB3	1:AK:64:LEU:HD21	2.01	0.42
1:AK:61:PHE:CE2	1:AK:243:ILE:HD11	2.55	0.42
1:AK:324:LEU:HD23	1:AK:324:LEU:C	2.40	0.42
1:AL:232:THR:HB	1:AL:334:VAL:HG23	2.01	0.42
1:AL:239:ILE:HG12	1:AL:326:ILE:CD1	2.50	0.42
1:AL:379:VAL:HG11	1:AL:381:MET:HE1	2.02	0.42
1:AO:295:LEU:O	1:AO:296:ALA:C	2.57	0.42
1:AQ:79:ARG:HG3	1:AQ:79:ARG:NH1	2.32	0.42
1:AQ:272:TYR:N	1:AQ:272:TYR:HD1	2.18	0.42
1:AQ:340:LEU:HA	1:AQ:340:LEU:HD23	1.86	0.42
1:AT:55:ARG:CZ	1:BA:272:TYR:CE2	3.03	0.42
1:BC:171:ASP:HA	1:BC:172:PRO:HD3	1.78	0.42
1:BF:418:SER:HB3	1:BG:407:SER:HB3	2.01	0.42
1:BO:25:ILE:HD12	1:BO:128:PRO:HB2	2.01	0.42
1:BR:404:LEU:HD22	1:BR:486:VAL:HG22	2.01	0.42
1:BS:300:GLN:HE21	1:BS:300:GLN:HB2	1.57	0.42
1:CF:284:ARG:CG	1:CF:284:ARG:NH1	2.74	0.42
1:CJ:300:GLN:HE21	1:CJ:300:GLN:HB2	1.59	0.42
1:CL:162:PHE:CD1	1:CM:287:TYR:HA	2.54	0.42
1:CM:108:ILE:HG23	1:CM:113:LEU:HD12	2.02	0.42
1:CN:237:VAL:HG23	1:CN:279:PHE:CD2	2.54	0.42
1:CO:263:ASN:O	1:CO:267:LYS:HG3	2.19	0.42
1:CP:250:TRP:CE3	1:CP:272:TYR:CD1	3.08	0.42
1:CR:79:ARG:NH1	1:CR:79:ARG:HG3	2.15	0.42
1:AA:10:ILE:HG21	1:AA:146:TRP:CZ2	2.54	0.42
1:AF:191:LEU:CD2	1:AF:191:LEU:N	2.78	0.42
1:AF:232:THR:HB	1:AF:334:VAL:HG23	2.01	0.42
1:AF:318:SER:HA	1:AF:319:GLY:HA2	1.82	0.42
1:AI:55:ARG:NE	1:AR:272:TYR:CD2	2.87	0.42
1:AK:285:SER:HA	1:AK:286:PRO:HD3	1.93	0.42
1:AL:454:ASN:HD21	1:AL:456:ALA:HB3	1.84	0.42
1:AM:10:ILE:HG21	1:AM:146:TRP:CZ2	2.54	0.42
1:AN:55:ARG:CD	1:AS:272:TYR:CD2	3.00	0.42
1:AP:255:TRP:CE3	1:AP:285:SER:HB2	2.55	0.42
1:BI:237:VAL:HG23	1:BI:279:PHE:CD2	2.54	0.42
1:BM:170:PHE:HD1	1:BM:389:MET:HE2	1.85	0.42
1:BN:25:ILE:HG23	1:BN:152:LEU:HD11	2.01	0.42
1:CD:250:TRP:CE3	1:CD:272:TYR:CD1	3.07	0.42
1:CD:423:LYS:HE2	1:CD:449:GLU:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CE:20:LEU:HB2	1:CE:132:PHE:O	2.19	0.42
1:CG:22:THR:OG1	1:CG:131:HIS:CD2	2.61	0.42
1:CK:318:SER:HA	1:CK:319:GLY:HA2	1.77	0.42
1:CM:237:VAL:HG23	1:CM:279:PHE:CD2	2.55	0.42
1:CR:83:SER:OG	1:CR:84:ALA:N	2.50	0.42
1:CS:252:VAL:HG22	1:CS:253:SER:N	2.35	0.42
1:AA:36:GLN:HE22	1:AA:156:LEU:H	1.68	0.42
1:AA:234:ARG:HG2	1:AA:280:GLU:HG2	2.01	0.42
1:AA:272:TYR:CD2	1:CT:55:ARG:CZ	3.03	0.42
1:AB:185:PRO:HA	1:AB:186:PRO:HD3	1.92	0.42
1:AD:191:LEU:HD23	1:AD:191:LEU:N	2.18	0.42
1:AD:232:THR:HB	1:AD:334:VAL:CG2	2.49	0.42
1:AH:272:TYR:HD2	1:CF:55:ARG:HD3	1.79	0.42
1:AJ:272:TYR:N	1:AJ:272:TYR:CD1	2.86	0.42
1:AN:79:ARG:CG	1:AN:79:ARG:NH1	2.74	0.42
1:AP:189:PHE:HE2	1:AP:249:LEU:CD2	2.33	0.42
1:AQ:108:ILE:HG23	1:AQ:113:LEU:HD12	2.00	0.42
1:BC:318:SER:HA	1:BC:319:GLY:HA2	1.78	0.42
1:BD:185:PRO:HA	1:BD:186:PRO:HD3	1.91	0.42
1:BE:182:LEU:C	1:BE:182:LEU:HD12	2.40	0.42
1:BL:207:VAL:HA	1:BL:208:PRO:HD3	1.87	0.42
1:BN:423:LYS:HE2	1:BN:449:GLU:O	2.20	0.42
1:BR:28:MET:CE	1:BR:152:LEU:HG	2.50	0.42
1:BT:14:CYS:H	1:BT:138:ASN:ND2	2.14	0.42
1:CA:234:ARG:CG	1:CA:280:GLU:HG2	2.49	0.42
1:CB:418:SER:HB3	1:CC:407:SER:HB3	2.01	0.42
1:CC:226:VAL:HG13	1:CC:228:GLY:H	1.85	0.42
1:CD:324:LEU:C	1:CD:324:LEU:HD23	2.40	0.42
1:CE:189:PHE:CE1	1:CE:198:ARG:HG2	2.53	0.42
1:CE:234:ARG:CG	1:CE:280:GLU:HG2	2.50	0.42
1:CF:20:LEU:HB2	1:CF:132:PHE:O	2.19	0.42
1:CG:395:LEU:HB2	1:CG:497:TYR:HB2	2.02	0.42
1:CH:207:VAL:HA	1:CH:208:PRO:HD3	1.84	0.42
1:CI:324:LEU:HA	1:CI:325:PRO:HD3	1.88	0.42
1:CI:373:THR:CG2	1:CI:374:SER:N	2.83	0.42
1:CL:239:ILE:HD12	1:CL:275:GLU:HA	2.01	0.42
1:CM:201:GLY:HA3	1:CM:300:GLN:HG2	2.02	0.42
1:CN:162:PHE:CD2	1:CN:163:LEU:HD13	2.55	0.42
1:CO:108:ILE:HG23	1:CO:113:LEU:HD12	2.02	0.42
1:CO:237:VAL:HG23	1:CO:279:PHE:CD2	2.55	0.42
1:CR:232:THR:HB	1:CR:334:VAL:CG2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:285:SER:HA	1:AA:286:PRO:HD3	1.92	0.42
1:AH:58:ALA:HB2	1:AH:102:GLY:HA3	2.02	0.42
1:AI:79:ARG:NH1	1:AI:79:ARG:CG	2.79	0.42
1:AI:423:LYS:HE2	1:AI:449:GLU:O	2.19	0.42
1:AN:442:GLN:HE21	1:AO:412:PHE:HB2	1.85	0.42
1:AQ:77:THR:O	1:AQ:81:THR:HG23	2.20	0.42
1:AQ:263:ASN:O	1:AQ:267:LYS:HG3	2.19	0.42
1:AS:379:VAL:HG11	1:AS:381:MET:HE1	2.02	0.42
1:AT:324:LEU:HA	1:AT:325:PRO:HD3	1.87	0.42
1:BB:252:VAL:HG22	1:BB:253:SER:N	2.35	0.42
1:BB:300:GLN:HE21	1:BB:300:GLN:HB2	1.67	0.42
1:BC:232:THR:HB	1:BC:334:VAL:HG23	2.02	0.42
1:BD:324:LEU:HD23	1:BD:324:LEU:C	2.40	0.42
1:BD:375:ASN:OD1	1:BD:376:THR:HG23	2.19	0.42
1:BF:14:CYS:H	1:BF:138:ASN:ND2	2.14	0.42
1:BG:170:PHE:HD1	1:BG:389:MET:CE	2.33	0.42
1:BG:175:PHE:CD2	1:BG:175:PHE:O	2.73	0.42
1:BH:318:SER:HA	1:BH:319:GLY:HA2	1.78	0.42
1:BI:285:SER:HA	1:BI:286:PRO:HD3	1.89	0.42
1:BK:237:VAL:HG23	1:BK:279:PHE:CD2	2.55	0.42
1:BK:272:TYR:N	1:BK:272:TYR:HD1	2.17	0.42
1:BN:55:ARG:CZ	1:BS:272:TYR:CE2	3.03	0.42
1:BS:108:ILE:HG23	1:BS:113:LEU:HD12	2.02	0.42
1:CC:237:VAL:HG23	1:CC:279:PHE:CD2	2.54	0.42
1:CE:185:PRO:HA	1:CE:186:PRO:HD3	1.92	0.42
1:CF:43:ALA:HB1	1:CF:158:GLU:HA	2.01	0.42
1:CF:379:VAL:CG1	1:CF:381:MET:CE	2.98	0.42
1:CI:285:SER:HA	1:CI:286:PRO:HD3	1.92	0.42
1:CJ:185:PRO:HA	1:CJ:186:PRO:HD3	1.88	0.42
1:CJ:404:LEU:N	1:CJ:404:LEU:HD23	2.35	0.42
1:CO:372:PHE:H	1:CO:381:MET:HE1	1.85	0.42
1:CQ:175:PHE:CD2	1:CQ:175:PHE:O	2.73	0.42
1:CS:28:MET:HE2	1:CS:152:LEU:HG	2.02	0.42
1:CS:232:THR:HB	1:CS:334:VAL:HG23	2.02	0.42
1:AA:182:LEU:HG	1:AA:330:ILE:HB	2.02	0.42
1:AB:207:VAL:HA	1:AB:208:PRO:HD3	1.83	0.42
1:AB:237:VAL:HG23	1:AB:279:PHE:CD2	2.55	0.42
1:AC:55:ARG:HD3	1:AT:272:TYR:HD2	1.82	0.42
1:AD:340:LEU:HD23	1:AD:340:LEU:HA	1.92	0.42
1:AE:252:VAL:HG22	1:AE:253:SER:N	2.35	0.42
1:AE:379:VAL:HG12	1:AE:381:MET:HE2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:191:LEU:O	1:BG:144:ALA:HB3	2.20	0.42
1:AL:232:THR:HB	1:AL:334:VAL:CG2	2.50	0.42
1:AM:191:LEU:HD23	1:AM:191:LEU:N	2.16	0.42
1:AP:237:VAL:HG23	1:AP:279:PHE:CD2	2.55	0.42
1:AP:379:VAL:HG12	1:AP:381:MET:HE2	2.01	0.42
1:AT:16:ALA:O	1:AT:17:ASN:HB2	2.20	0.42
1:AT:379:VAL:HG12	1:AT:381:MET:HE2	2.01	0.42
1:AT:379:VAL:CG1	1:AT:381:MET:CE	2.98	0.42
1:BA:252:VAL:HG22	1:BA:253:SER:N	2.34	0.42
1:BA:412:PHE:HB2	1:BE:442:GLN:HE21	1.85	0.42
1:BB:232:THR:HB	1:BB:334:VAL:HG23	2.01	0.42
1:BD:239:ILE:HD12	1:BD:275:GLU:HA	2.02	0.42
1:BD:371:ASP:OD1	1:BD:381:MET:HG2	2.20	0.42
1:BJ:202:LEU:HD23	1:BJ:202:LEU:HA	1.87	0.42
1:BL:33:LYS:HB2	1:BL:33:LYS:HE2	1.96	0.42
1:BP:324:LEU:C	1:BP:324:LEU:HD23	2.40	0.42
1:BQ:189:PHE:CE2	1:BQ:249:LEU:HD21	2.52	0.42
1:BR:171:ASP:HA	1:BR:172:PRO:HD3	1.78	0.42
1:BR:371:ASP:OD1	1:BR:381:MET:HG2	2.20	0.42
1:CC:16:ALA:O	1:CC:17:ASN:HB2	2.20	0.42
1:CI:170:PHE:HD1	1:CI:389:MET:HE2	1.85	0.42
1:CJ:324:LEU:HA	1:CJ:325:PRO:HD3	1.88	0.42
1:CK:108:ILE:HG23	1:CK:113:LEU:HD12	2.01	0.42
1:CL:188:PHE:C	1:CL:189:PHE:HD1	2.22	0.42
1:CL:207:VAL:HA	1:CL:208:PRO:HD3	1.85	0.42
1:CM:182:LEU:C	1:CM:182:LEU:HD12	2.40	0.42
1:CM:232:THR:HB	1:CM:334:VAL:HG23	2.00	0.42
1:CN:234:ARG:HG2	1:CN:280:GLU:HG2	2.01	0.42
1:CO:239:ILE:HG23	1:CO:324:LEU:HD21	2.01	0.42
1:CP:252:VAL:HG22	1:CP:253:SER:N	2.35	0.42
1:CP:423:LYS:HE2	1:CP:449:GLU:O	2.20	0.42
1:CR:436:SER:O	1:CS:487:LEU:HD21	2.19	0.42
1:CT:182:LEU:HG	1:CT:330:ILE:HB	2.02	0.42
1:AF:182:LEU:HG	1:AF:330:ILE:HB	2.02	0.41
1:AF:381:MET:HE2	1:AF:381:MET:HB2	1.87	0.41
1:AG:259:THR:OG1	1:AG:260:MET:N	2.53	0.41
1:AH:32:PHE:CZ	1:AK:267:LYS:HG2	2.55	0.41
1:AI:189:PHE:HD2	1:AI:247:ILE:HD11	1.85	0.41
1:AJ:48:PRO:HG2	1:AJ:50:PHE:CZ	2.55	0.41
1:AM:263:ASN:O	1:AM:267:LYS:HG3	2.20	0.41
1:AR:43:ALA:HB1	1:AR:158:GLU:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AT:252:VAL:HG22	1:AT:253:SER:N	2.35	0.41
1:BA:73:TYR:CZ	1:BA:394:GLY:HA3	2.55	0.41
1:BA:163:LEU:HD21	1:BA:458:ALA:HB2	2.01	0.41
1:BC:22:THR:OG1	1:BC:131:HIS:CD2	2.59	0.41
1:BD:285:SER:HA	1:BD:286:PRO:HD3	1.90	0.41
1:BE:175:PHE:CD2	1:BE:175:PHE:O	2.73	0.41
1:BF:15:GLN:HA	1:BF:15:GLN:HE21	1.84	0.41
1:BF:232:THR:HB	1:BF:334:VAL:CG2	2.50	0.41
1:BI:55:ARG:HD3	1:BR:272:TYR:HD2	1.79	0.41
1:BN:404:LEU:HD22	1:BN:486:VAL:HG22	2.01	0.41
1:BQ:371:ASP:OD1	1:BQ:381:MET:HG2	2.20	0.41
1:BT:234:ARG:CG	1:BT:280:GLU:HG2	2.49	0.41
1:CA:440:ALA:CB	1:CB:444:LEU:HD13	2.49	0.41
1:CB:256:ASN:HD22	1:CB:302:ASP:HA	1.85	0.41
1:CE:170:PHE:HD1	1:CE:389:MET:HE2	1.85	0.41
1:CF:189:PHE:CE2	1:CF:249:LEU:HD21	2.47	0.41
1:CG:324:LEU:C	1:CG:324:LEU:HD23	2.40	0.41
1:CI:232:THR:HB	1:CI:334:VAL:CG2	2.50	0.41
1:CK:189:PHE:CE2	1:CK:249:LEU:HD21	2.55	0.41
1:CL:232:THR:HB	1:CL:334:VAL:CG2	2.51	0.41
1:CN:393:HIS:CG	1:CN:496:PHE:HB3	2.54	0.41
1:CS:203:THR:CB	1:CS:300:GLN:HG3	2.49	0.41
1:CS:318:SER:HA	1:CS:319:GLY:HA2	1.81	0.41
1:AB:259:THR:O	1:AB:259:THR:HG22	2.15	0.41
1:AC:381:MET:HE2	1:AC:381:MET:HB2	1.86	0.41
1:AF:43:ALA:HB1	1:AF:158:GLU:HA	2.02	0.41
1:AH:234:ARG:CG	1:AH:280:GLU:HG2	2.50	0.41
1:AJ:379:VAL:HG11	1:AJ:381:MET:HE1	2.01	0.41
1:AK:52:ILE:HD11	1:AK:108:ILE:HD12	2.03	0.41
1:AK:207:VAL:HA	1:AK:208:PRO:HD3	1.82	0.41
1:AK:324:LEU:HA	1:AK:325:PRO:HD3	1.89	0.41
1:BE:16:ALA:O	1:BE:17:ASN:CB	2.64	0.41
1:BF:182:LEU:HG	1:BF:330:ILE:HB	2.02	0.41
1:BF:379:VAL:CG1	1:BF:381:MET:HE2	2.50	0.41
1:BG:33:LYS:O	1:BG:33:LYS:CG	2.62	0.41
1:BJ:162:PHE:CD2	1:BJ:163:LEU:HD13	2.55	0.41
1:BL:318:SER:HA	1:BL:319:GLY:HA2	1.77	0.41
1:BM:255:TRP:CE3	1:BM:285:SER:HB2	2.55	0.41
1:BR:234:ARG:HG2	1:BR:280:GLU:HG2	2.01	0.41
1:BT:379:VAL:HG12	1:BT:381:MET:HE2	2.01	0.41
1:CA:272:TYR:N	1:CA:272:TYR:HD1	2.17	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CD:55:ARG:CD	1:CN:272:TYR:CD2	2.97	0.41
1:CF:423:LYS:HE2	1:CF:449:GLU:O	2.19	0.41
1:CG:175:PHE:CD2	1:CG:175:PHE:O	2.74	0.41
1:CH:442:GLN:NE2	1:CI:412:PHE:HB2	2.35	0.41
1:CI:239:ILE:HD12	1:CI:275:GLU:HA	2.00	0.41
1:CP:188:PHE:C	1:CP:189:PHE:HD1	2.24	0.41
1:CQ:182:LEU:C	1:CQ:182:LEU:HD12	2.41	0.41
1:CR:10:ILE:HA	1:CR:11:PRO:HD3	1.88	0.41
1:CS:324:LEU:HA	1:CS:325:PRO:HD3	1.85	0.41
1:AC:163:LEU:HD12	1:AC:163:LEU:HA	1.90	0.41
1:AD:171:ASP:HA	1:AD:172:PRO:HD3	1.78	0.41
1:AD:371:ASP:OD1	1:AD:381:MET:HG2	2.20	0.41
1:AD:423:LYS:HE2	1:AD:449:GLU:O	2.19	0.41
1:AE:163:LEU:HD12	1:AE:163:LEU:HA	1.88	0.41
1:AE:423:LYS:HE2	1:AE:449:GLU:O	2.21	0.41
1:AJ:61:PHE:CD2	1:AJ:243:ILE:HD11	2.55	0.41
1:AN:418:SER:HB3	1:AO:407:SER:HB3	2.01	0.41
1:AP:250:TRP:HZ3	1:AP:272:TYR:CE1	2.33	0.41
1:BI:20:LEU:HB2	1:BI:132:PHE:O	2.20	0.41
1:BL:239:ILE:HG23	1:BL:324:LEU:HD21	2.01	0.41
1:BO:73:TYR:CE2	1:BO:394:GLY:HA3	2.56	0.41
1:BO:272:TYR:CD2	1:BR:55:ARG:NH1	2.87	0.41
1:BP:272:TYR:HD2	1:CE:55:ARG:HD3	1.77	0.41
1:BP:324:LEU:HA	1:BP:325:PRO:HD3	1.84	0.41
1:BR:239:ILE:HG12	1:BR:326:ILE:CD1	2.50	0.41
1:BR:272:TYR:N	1:BR:272:TYR:HD1	2.18	0.41
1:BR:395:LEU:HB2	1:BR:497:TYR:HB2	2.01	0.41
1:CD:48:PRO:HG2	1:CD:50:PHE:CZ	2.56	0.41
1:CH:437:HIS:CE1	1:CI:405:GLN:NE2	2.88	0.41
1:CJ:191:LEU:CD2	1:CJ:191:LEU:N	2.78	0.41
1:CL:440:ALA:CB	1:CM:444:LEU:HD13	2.50	0.41
1:CN:14:CYS:HB3	1:CN:64:LEU:HD21	2.01	0.41
1:CP:28:MET:CE	1:CP:152:LEU:HG	2.51	0.41
1:CP:444:LEU:HD13	1:CT:440:ALA:CB	2.50	0.41
1:CQ:162:PHE:CD1	1:CR:287:TYR:HA	2.56	0.41
1:CQ:395:LEU:HB2	1:CQ:497:TYR:HB2	2.01	0.41
1:CR:272:TYR:N	1:CR:272:TYR:HD1	2.18	0.41
1:AC:25:ILE:HG23	1:AC:152:LEU:HD11	2.01	0.41
1:AC:171:ASP:HA	1:AC:172:PRO:HD3	1.81	0.41
1:AG:182:LEU:HG	1:AG:330:ILE:HB	2.03	0.41
1:AH:15:GLN:HE21	1:AH:15:GLN:CA	2.24	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:267:LYS:HG2	1:AO:32:PHE:CZ	2.55	0.41
1:AI:318:SER:HA	1:AI:319:GLY:HA2	1.78	0.41
1:AJ:234:ARG:CG	1:AJ:280:GLU:HG2	2.50	0.41
1:AL:442:GLN:NE2	1:AM:412:PHE:HB2	2.34	0.41
1:AM:163:LEU:HD12	1:AM:163:LEU:HA	1.82	0.41
1:AN:77:THR:O	1:AN:81:THR:HG23	2.20	0.41
1:AO:202:LEU:HB2	1:AO:304:SER:O	2.21	0.41
1:AO:294:LEU:CD1	1:AO:299:SER:HA	2.49	0.41
1:AP:222:LEU:O	1:AP:225:CYS:HB2	2.21	0.41
1:AR:182:LEU:HG	1:AR:330:ILE:HB	2.02	0.41
1:AR:379:VAL:HG12	1:AR:381:MET:HE2	2.02	0.41
1:BA:18:ARG:HG3	1:BA:19:TYR:N	2.34	0.41
1:BB:170:PHE:HD1	1:BB:389:MET:CE	2.33	0.41
1:BD:38:GLU:HB3	1:BM:35:VAL:HG23	2.02	0.41
1:BD:55:ARG:HD3	1:BN:272:TYR:HD2	1.78	0.41
1:BG:232:THR:HB	1:BG:334:VAL:HG23	2.00	0.41
1:BG:454:ASN:HD21	1:BG:456:ALA:HB3	1.84	0.41
1:BI:25:ILE:HD12	1:BI:128:PRO:HB2	2.02	0.41
1:BI:238:HIS:HE1	1:BI:329:GLN:OE1	2.04	0.41
1:BN:202:LEU:HD23	1:BN:202:LEU:HA	1.93	0.41
1:BN:226:VAL:HG13	1:BN:228:GLY:H	1.86	0.41
1:BO:25:ILE:HG23	1:BO:152:LEU:HD11	2.02	0.41
1:BS:252:VAL:HG22	1:BS:253:SER:N	2.36	0.41
1:CB:182:LEU:C	1:CB:182:LEU:HD12	2.40	0.41
1:CB:423:LYS:HE2	1:CB:449:GLU:O	2.20	0.41
1:CD:232:THR:HB	1:CD:334:VAL:HG23	2.02	0.41
1:CD:371:ASP:OD1	1:CD:381:MET:HG2	2.20	0.41
1:CF:14:CYS:H	1:CF:138:ASN:ND2	2.18	0.41
1:CF:475:LEU:HB3	1:CF:478:ALA:HB2	2.02	0.41
1:CH:285:SER:HA	1:CH:286:PRO:HD3	1.93	0.41
1:CP:255:TRP:CG	1:CP:286:PRO:HD3	2.56	0.41
1:CP:324:LEU:HD23	1:CP:324:LEU:C	2.40	0.41
1:CQ:45:LEU:HD23	1:CQ:45:LEU:HA	1.88	0.41
1:CQ:234:ARG:HG2	1:CQ:280:GLU:HG2	2.03	0.41
1:CS:79:ARG:HH11	1:CS:79:ARG:CG	2.33	0.41
1:CT:379:VAL:HG11	1:CT:381:MET:HE1	2.02	0.41
1:AD:43:ALA:HB1	1:AD:158:GLU:HA	2.02	0.41
1:AE:22:THR:OG1	1:AE:131:HIS:CD2	2.60	0.41
1:AH:207:VAL:HA	1:AH:208:PRO:HD3	1.83	0.41
1:AK:33:LYS:HB2	1:AK:33:LYS:HE2	1.97	0.41
1:AK:188:PHE:C	1:AK:189:PHE:HD1	2.24	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:272:TYR:CE2	1:CP:55:ARG:CZ	3.04	0.41
1:AM:272:TYR:N	1:AM:272:TYR:HD1	2.18	0.41
1:AN:226:VAL:HG13	1:AN:228:GLY:H	1.85	0.41
1:AQ:58:ALA:HB2	1:AQ:102:GLY:HA3	2.02	0.41
1:AS:182:LEU:HG	1:AS:330:ILE:HB	2.03	0.41
1:AT:324:LEU:HD23	1:AT:324:LEU:C	2.40	0.41
1:BA:11:PRO:HG2	1:BA:18:ARG:CD	2.51	0.41
1:BA:22:THR:OG1	1:BA:131:HIS:CD2	2.61	0.41
1:BD:189:PHE:HE1	1:BD:198:ARG:CG	2.27	0.41
1:BE:252:VAL:HG22	1:BE:253:SER:N	2.36	0.41
1:BG:238:HIS:HE1	1:BG:329:GLN:OE1	2.03	0.41
1:BG:300:GLN:HE21	1:BG:300:GLN:HB2	1.60	0.41
1:BJ:234:ARG:HG2	1:BJ:280:GLU:HG2	2.02	0.41
1:BK:239:ILE:HG23	1:BK:324:LEU:HD21	2.02	0.41
1:BN:379:VAL:HG11	1:BN:381:MET:HE1	2.03	0.41
1:BQ:454:ASN:HD21	1:BQ:456:ALA:HB3	1.85	0.41
1:BR:379:VAL:HG11	1:BR:381:MET:HE1	2.02	0.41
1:CC:189:PHE:HE2	1:CC:249:LEU:HD21	1.85	0.41
1:CD:22:THR:OG1	1:CD:131:HIS:CD2	2.58	0.41
1:CF:226:VAL:HG13	1:CF:228:GLY:H	1.85	0.41
1:CF:239:ILE:HG23	1:CF:324:LEU:HD21	2.02	0.41
1:CH:10:ILE:HA	1:CH:11:PRO:HD3	1.86	0.41
1:CJ:423:LYS:HE2	1:CJ:449:GLU:O	2.20	0.41
1:CK:232:THR:HB	1:CK:334:VAL:HG23	2.02	0.41
1:CL:232:THR:HB	1:CL:334:VAL:HG23	2.01	0.41
1:CO:232:THR:HB	1:CO:334:VAL:HG23	2.02	0.41
1:CP:444:LEU:HD13	1:CT:440:ALA:HB3	2.02	0.41
1:CR:77:THR:HA	1:CR:80:ILE:HD11	2.03	0.41
1:CT:324:LEU:HD23	1:CT:324:LEU:C	2.41	0.41
1:AA:379:VAL:HG11	1:AA:381:MET:HE1	2.03	0.41
1:AB:171:ASP:HA	1:AB:172:PRO:HD3	1.79	0.41
1:AC:263:ASN:O	1:AC:267:LYS:HG3	2.20	0.41
1:AC:443:LYS:HD3	1:AC:443:LYS:HA	1.93	0.41
1:AD:379:VAL:HG11	1:AD:381:MET:HE1	2.02	0.41
1:AG:25:ILE:HG23	1:AG:152:LEU:HD11	2.03	0.41
1:AG:232:THR:HB	1:AG:334:VAL:HG23	2.01	0.41
1:AG:285:SER:HA	1:AG:286:PRO:HD3	1.94	0.41
1:AO:79:ARG:NH1	1:AO:79:ARG:CG	2.84	0.41
1:AQ:163:LEU:HD12	1:AQ:163:LEU:HA	1.87	0.41
1:AQ:188:PHE:C	1:AQ:189:PHE:HD1	2.24	0.41
1:AQ:241:ALA:HB1	1:AQ:242:PRO:HD2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:318:SER:HA	1:AR:319:GLY:HA2	1.75	0.41
1:AS:22:THR:OG1	1:AS:131:HIS:CD2	2.63	0.41
1:AS:239:ILE:HD12	1:AS:275:GLU:HA	2.02	0.41
1:AT:55:ARG:CZ	1:BA:272:TYR:CD2	3.04	0.41
1:BC:28:MET:HE2	1:BC:152:LEU:HG	2.02	0.41
1:BG:25:ILE:HD12	1:BG:128:PRO:HB2	2.03	0.41
1:BI:263:ASN:O	1:BI:267:LYS:HG3	2.20	0.41
1:BI:324:LEU:HD23	1:BI:324:LEU:C	2.40	0.41
1:BJ:371:ASP:OD1	1:BJ:381:MET:HG2	2.19	0.41
1:BN:340:LEU:HA	1:BN:340:LEU:HD23	1.87	0.41
1:BO:234:ARG:CG	1:BO:280:GLU:HG2	2.50	0.41
1:BS:423:LYS:HE2	1:BS:449:GLU:O	2.20	0.41
1:BT:263:ASN:O	1:BT:267:LYS:HG3	2.20	0.41
1:BT:300:GLN:HE21	1:BT:300:GLN:HB2	1.57	0.41
1:CC:239:ILE:HD12	1:CC:275:GLU:HA	2.01	0.41
1:CI:20:LEU:HB2	1:CI:132:PHE:O	2.21	0.41
1:CK:12:LYS:HB3	1:CK:144:ALA:C	2.41	0.41
1:CN:226:VAL:HG13	1:CN:228:GLY:H	1.85	0.41
1:CO:10:ILE:HA	1:CO:11:PRO:HD3	1.82	0.41
1:CP:22:THR:OG1	1:CP:131:HIS:CD2	2.64	0.41
1:CS:234:ARG:CG	1:CS:280:GLU:HG2	2.51	0.41
1:AA:108:ILE:HG23	1:AA:113:LEU:HD12	2.02	0.41
1:AA:203:THR:HB	1:AA:300:GLN:HG3	2.02	0.41
1:AB:18:ARG:NH1	1:AB:18:ARG:HB2	2.36	0.41
1:AB:79:ARG:CG	1:AB:79:ARG:NH1	2.82	0.41
1:AB:257:GLY:O	1:AB:258:THR:HG22	2.20	0.41
1:AE:300:GLN:HE21	1:AE:300:GLN:HB2	1.72	0.41
1:AF:163:LEU:HD12	1:AF:163:LEU:HA	1.90	0.41
1:AG:182:LEU:C	1:AG:182:LEU:HD12	2.40	0.41
1:AK:189:PHE:CE2	1:AK:249:LEU:HD21	2.55	0.41
1:AN:414:LYS:HA	1:AO:411:GLU:HB3	2.02	0.41
1:AP:232:THR:HB	1:AP:334:VAL:CG2	2.51	0.41
1:AQ:318:SER:HA	1:AQ:319:GLY:HA2	1.80	0.41
1:AS:234:ARG:CG	1:AS:280:GLU:HG2	2.51	0.41
1:BB:35:VAL:HG22	1:CA:38:GLU:HB2	2.03	0.41
1:BB:202:LEU:HD23	1:BB:202:LEU:HA	1.95	0.41
1:BH:237:VAL:HG23	1:BH:279:PHE:CD2	2.54	0.41
1:BI:52:ILE:HG12	1:BI:152:LEU:CD2	2.51	0.41
1:BJ:79:ARG:NH1	1:BJ:79:ARG:CG	2.73	0.41
1:BL:272:TYR:N	1:BL:272:TYR:HD1	2.19	0.41
1:BM:300:GLN:HE21	1:BM:300:GLN:HB2	1.66	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BP:28:MET:HE2	1:BP:152:LEU:HG	2.03	0.41
1:BR:423:LYS:HE2	1:BR:449:GLU:O	2.21	0.41
1:BT:11:PRO:HG2	1:BT:18:ARG:HD2	2.03	0.41
1:CE:454:ASN:ND2	1:CE:456:ALA:HB3	2.36	0.41
1:CG:170:PHE:HD1	1:CG:389:MET:CE	2.34	0.41
1:CG:404:LEU:HD22	1:CG:486:VAL:HG22	2.02	0.41
1:CI:232:THR:HB	1:CI:334:VAL:HG23	2.03	0.41
1:CI:234:ARG:CG	1:CI:280:GLU:HG2	2.51	0.41
1:CL:191:LEU:CD2	1:CL:191:LEU:N	2.75	0.41
1:CM:20:LEU:HB2	1:CM:132:PHE:O	2.21	0.41
1:CP:379:VAL:HG12	1:CP:381:MET:HE2	2.02	0.41
1:CS:401:ASP:O	1:CS:488:CYS:HA	2.21	0.41
1:AA:232:THR:HB	1:AA:334:VAL:CG2	2.50	0.41
1:AC:324:LEU:C	1:AC:324:LEU:HD23	2.42	0.41
1:AE:371:ASP:OD1	1:AE:381:MET:HG2	2.20	0.41
1:AH:182:LEU:C	1:AH:182:LEU:HD12	2.41	0.41
1:AH:256:ASN:HD22	1:AH:302:ASP:HA	1.86	0.41
1:AI:182:LEU:C	1:AI:182:LEU:HD12	2.41	0.41
1:AK:202:LEU:HB2	1:AK:304:SER:O	2.21	0.41
1:AM:436:SER:O	1:AN:487:LEU:HD21	2.21	0.41
1:AN:241:ALA:HB1	1:AN:242:PRO:HD2	2.03	0.41
1:AQ:285:SER:HA	1:AQ:286:PRO:HD3	1.93	0.41
1:AQ:324:LEU:HA	1:AQ:325:PRO:HD3	1.84	0.41
1:AR:239:ILE:HD12	1:AR:275:GLU:HA	2.02	0.41
1:AS:252:VAL:HG22	1:AS:253:SER:N	2.35	0.41
1:AS:454:ASN:ND2	1:AS:456:ALA:H	2.09	0.41
1:AT:55:ARG:NE	1:BA:272:TYR:HE2	2.10	0.41
1:BA:407:SER:HB3	1:BE:418:SER:HB3	2.01	0.41
1:BE:371:ASP:OD1	1:BE:381:MET:HG2	2.21	0.41
1:BF:285:SER:HA	1:BF:286:PRO:HD3	1.92	0.41
1:BH:335:ARG:N	1:BH:336:PRO:HD3	2.36	0.41
1:BI:232:THR:HB	1:BI:334:VAL:CG2	2.49	0.41
1:BL:79:ARG:CG	1:BL:79:ARG:NH1	2.83	0.41
1:BL:191:LEU:HD23	1:BL:191:LEU:N	2.22	0.41
1:BO:182:LEU:HG	1:BO:330:ILE:HB	2.02	0.41
1:BT:241:ALA:HB1	1:BT:242:PRO:HD2	2.03	0.41
1:CB:379:VAL:HG12	1:CB:381:MET:HE2	2.03	0.41
1:CD:250:TRP:CZ3	1:CD:272:TYR:CD1	3.08	0.41
1:CG:371:ASP:OD1	1:CG:381:MET:HG2	2.21	0.41
1:CH:162:PHE:CD1	1:CI:287:TYR:HA	2.56	0.41
1:CI:255:TRP:CE3	1:CI:285:SER:HB2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CJ:202:LEU:HB2	1:CJ:304:SER:O	2.21	0.41
1:CP:404:LEU:N	1:CP:404:LEU:HD23	2.36	0.41
1:CR:14:CYS:HB3	1:CR:64:LEU:HD21	2.01	0.41
1:AA:238:HIS:HE1	1:AA:329:GLN:OE1	2.04	0.41
1:AA:404:LEU:N	1:AA:404:LEU:HD23	2.36	0.41
1:AB:58:ALA:HB2	1:AB:102:GLY:CA	2.50	0.41
1:AC:14:CYS:H	1:AC:138:ASN:HD21	1.67	0.41
1:AC:256:ASN:HD22	1:AC:302:ASP:HA	1.85	0.41
1:AD:108:ILE:HG23	1:AD:113:LEU:HD12	2.03	0.41
1:AE:272:TYR:CD2	1:AM:55:ARG:CZ	3.04	0.41
1:AF:203:THR:HB	1:AF:300:GLN:CG	2.51	0.41
1:AF:287:TYR:HA	1:AJ:162:PHE:CD1	2.55	0.41
1:AG:38:GLU:CB	1:CF:35:VAL:CG2	2.99	0.41
1:AG:43:ALA:HB1	1:AG:158:GLU:HA	2.03	0.41
1:AG:207:VAL:HA	1:AG:208:PRO:HD3	1.81	0.41
1:AG:239:ILE:HG12	1:AG:326:ILE:CD1	2.50	0.41
1:AI:61:PHE:CD2	1:AI:243:ILE:HD11	2.55	0.41
1:AI:252:VAL:HG22	1:AI:253:SER:N	2.36	0.41
1:AI:379:VAL:CG1	1:AI:381:MET:CE	2.99	0.41
1:AJ:171:ASP:HA	1:AJ:172:PRO:HD3	1.78	0.41
1:AJ:175:PHE:CD2	1:AJ:175:PHE:O	2.74	0.41
1:AL:300:GLN:HE21	1:AL:300:GLN:HB2	1.67	0.41
1:AL:372:PHE:H	1:AL:381:MET:HE1	1.85	0.41
1:AL:379:VAL:HG12	1:AL:381:MET:HE2	2.03	0.41
1:AM:162:PHE:CD1	1:AN:287:TYR:HA	2.56	0.41
1:AN:202:LEU:HD23	1:AN:202:LEU:HA	1.90	0.41
1:AN:289:ARG:NH1	1:AN:337:ASP:OD1	2.54	0.41
1:AN:430:MET:HE1	1:AO:296:ALA:CA	2.50	0.41
1:AO:58:ALA:HB2	1:AO:102:GLY:HA3	2.01	0.41
1:AP:379:VAL:HG11	1:AP:381:MET:HE1	2.02	0.41
1:AQ:170:PHE:HB2	1:AQ:496:PHE:HE1	1.85	0.41
1:AR:371:ASP:OD1	1:AR:381:MET:HG2	2.21	0.41
1:AS:77:THR:O	1:AS:81:THR:HG23	2.21	0.41
1:AT:371:ASP:OD1	1:AT:381:MET:HG2	2.21	0.41
1:BD:11:PRO:HG2	1:BD:18:ARG:HD2	2.02	0.41
1:BE:201:GLY:HA3	1:BE:300:GLN:HG2	2.02	0.41
1:BF:108:ILE:HG23	1:BF:113:LEU:HD12	2.02	0.41
1:BF:324:LEU:HD23	1:BF:324:LEU:C	2.42	0.41
1:BF:379:VAL:CG1	1:BF:381:MET:CE	2.99	0.41
1:BJ:379:VAL:HG11	1:BJ:381:MET:HE1	2.02	0.41
1:BL:7:VAL:CG1	1:BL:9:TYR:CE2	3.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BL:170:PHE:HD1	1:BL:389:MET:CE	2.33	0.41
1:BN:55:ARG:CZ	1:BS:272:TYR:CD2	3.04	0.41
1:BN:207:VAL:HA	1:BN:208:PRO:HD3	1.83	0.41
1:BN:442:GLN:NE2	1:BO:412:PHE:HB2	2.34	0.41
1:BO:232:THR:HB	1:BO:334:VAL:HG23	2.03	0.41
1:BQ:191:LEU:HD23	1:BQ:191:LEU:N	2.20	0.41
1:BQ:340:LEU:HD23	1:BQ:340:LEU:HA	1.88	0.41
1:BR:189:PHE:CE1	1:BR:198:ARG:HG2	2.56	0.41
1:BR:318:SER:HA	1:BR:319:GLY:HA2	1.76	0.41
1:BR:324:LEU:HD23	1:BR:324:LEU:C	2.41	0.41
1:BS:37:TYR:O	1:BS:40:TRP:HB3	2.21	0.41
1:BT:20:LEU:HB2	1:BT:132:PHE:O	2.21	0.41
1:BT:20:LEU:HD11	1:BT:66:TRP:CD1	2.56	0.41
1:BT:324:LEU:HA	1:BT:325:PRO:HD3	1.88	0.41
1:BT:379:VAL:HG11	1:BT:381:MET:HE1	2.02	0.41
1:CA:202:LEU:HD23	1:CA:202:LEU:HA	1.94	0.41
1:CA:324:LEU:C	1:CA:324:LEU:HD23	2.41	0.41
1:CC:189:PHE:HE1	1:CC:198:ARG:CG	2.30	0.41
1:CD:10:ILE:HA	1:CD:11:PRO:HD3	1.89	0.41
1:CD:55:ARG:CZ	1:CN:272:TYR:CD2	3.04	0.41
1:CG:239:ILE:HG23	1:CG:324:LEU:HD21	2.02	0.41
1:CH:182:LEU:C	1:CH:182:LEU:HD12	2.40	0.41
1:CI:75:ARG:NH2	1:CI:391:ALA:O	2.53	0.41
1:CJ:182:LEU:HG	1:CJ:330:ILE:HB	2.03	0.41
1:CK:202:LEU:HD23	1:CK:202:LEU:HA	1.87	0.41
1:CK:371:ASP:OD1	1:CK:381:MET:HG2	2.21	0.41
1:CK:412:PHE:HB2	1:CO:442:GLN:HE21	1.86	0.41
1:CL:43:ALA:HB1	1:CL:158:GLU:HA	2.02	0.41
1:CM:14:CYS:H	1:CM:138:ASN:ND2	2.18	0.41
1:CM:58:ALA:HB2	1:CM:102:GLY:HA3	2.02	0.41
1:CM:239:ILE:HG23	1:CM:324:LEU:HD21	2.02	0.41
1:CN:272:TYR:N	1:CN:272:TYR:HD1	2.18	0.41
1:CP:263:ASN:O	1:CP:267:LYS:HG3	2.20	0.41
1:CQ:170:PHE:HB2	1:CQ:496:PHE:HE1	1.85	0.41
1:CQ:182:LEU:HG	1:CQ:330:ILE:HB	2.02	0.41
1:CQ:207:VAL:HA	1:CQ:208:PRO:HD3	1.83	0.41
1:CR:85:ASP:O	1:CR:86:PRO:C	2.57	0.41
1:CR:162:PHE:CD1	1:CS:287:TYR:HA	2.56	0.41
1:CR:189:PHE:HD2	1:CR:247:ILE:HD11	1.86	0.41
1:CR:285:SER:HA	1:CR:286:PRO:HD3	1.91	0.41
1:CS:232:THR:HB	1:CS:334:VAL:CG2	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CT:25:ILE:HG23	1:CT:152:LEU:HD11	2.03	0.41
1:AB:202:LEU:HD23	1:AB:202:LEU:HA	1.88	0.41
1:AC:454:ASN:ND2	1:AC:456:ALA:HB3	2.36	0.41
1:AD:182:LEU:C	1:AD:182:LEU:HD12	2.42	0.41
1:AD:234:ARG:CG	1:AD:280:GLU:HG2	2.51	0.41
1:AD:324:LEU:HD23	1:AD:324:LEU:C	2.41	0.41
1:AE:197:LEU:HD21	1:AE:258:THR:HG21	2.02	0.41
1:AE:324:LEU:HD23	1:AE:324:LEU:C	2.41	0.41
1:AL:188:PHE:C	1:AL:189:PHE:HD1	2.24	0.41
1:AL:340:LEU:HD23	1:AL:340:LEU:HA	1.94	0.41
1:AM:272:TYR:CD2	1:CP:55:ARG:CZ	3.04	0.41
1:AO:381:MET:HE2	1:AO:381:MET:HB2	1.85	0.41
1:AP:252:VAL:HG22	1:AP:253:SER:N	2.36	0.41
1:AS:11:PRO:HG2	1:AS:18:ARG:CD	2.51	0.41
1:BB:191:LEU:CD2	1:BB:191:LEU:N	2.73	0.41
1:BD:175:PHE:O	1:BD:175:PHE:CD2	2.74	0.41
1:BE:423:LYS:HE2	1:BE:449:GLU:O	2.20	0.41
1:BF:48:PRO:HG2	1:BF:50:PHE:CZ	2.56	0.41
1:BF:263:ASN:O	1:BF:267:LYS:HG3	2.21	0.41
1:BH:18:ARG:HG2	1:BH:20:LEU:HD23	2.03	0.41
1:BJ:234:ARG:CG	1:BJ:280:GLU:HG2	2.51	0.41
1:BL:170:PHE:HD1	1:BL:389:MET:HE2	1.86	0.41
1:BP:182:LEU:C	1:BP:182:LEU:HD12	2.42	0.41
1:BP:250:TRP:HE3	1:BP:272:TYR:CD1	2.39	0.41
1:BQ:226:VAL:HG13	1:BQ:228:GLY:H	1.86	0.41
1:BR:252:VAL:HG22	1:BR:253:SER:N	2.36	0.41
1:BR:379:VAL:HG12	1:BR:381:MET:HE2	2.03	0.41
1:BS:285:SER:HA	1:BS:286:PRO:HD3	1.95	0.41
1:BT:185:PRO:HA	1:BT:186:PRO:HD3	1.94	0.41
1:BT:285:SER:HA	1:BT:286:PRO:HD3	1.92	0.41
1:CD:252:VAL:HG22	1:CD:253:SER:N	2.35	0.41
1:CE:61:PHE:CE2	1:CE:243:ILE:HD11	2.56	0.41
1:CF:48:PRO:HG2	1:CF:50:PHE:CZ	2.56	0.41
1:CF:252:VAL:HG22	1:CF:253:SER:N	2.36	0.41
1:CG:74:ASN:ND2	1:CG:77:THR:OG1	2.54	0.41
1:CI:22:THR:OG1	1:CI:131:HIS:CD2	2.62	0.41
1:CL:234:ARG:CG	1:CL:280:GLU:HG2	2.51	0.41
1:CR:108:ILE:HG23	1:CR:113:LEU:HD12	2.03	0.41
1:CS:202:LEU:HD23	1:CS:202:LEU:HA	1.90	0.41
1:AA:11:PRO:HG2	1:AA:18:ARG:CD	2.51	0.40
1:AB:170:PHE:HD1	1:AB:389:MET:CE	2.33	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:263:ASN:ND2	1:CB:32:PHE:HA	2.34	0.40
1:AC:189:PHE:CE2	1:AC:249:LEU:HD21	2.56	0.40
1:AC:202:LEU:HD23	1:AC:202:LEU:HA	1.91	0.40
1:AF:182:LEU:HD12	1:AF:182:LEU:C	2.42	0.40
1:AF:189:PHE:CE1	1:AF:198:ARG:HG2	2.55	0.40
1:AI:202:LEU:HA	1:AI:202:LEU:HD23	1.87	0.40
1:AI:418:SER:HB3	1:AJ:407:SER:CB	2.50	0.40
1:AI:440:ALA:CB	1:AJ:444:LEU:HD13	2.50	0.40
1:AJ:55:ARG:CZ	1:BL:272:TYR:CD2	3.04	0.40
1:AL:28:MET:CE	1:AL:152:LEU:HG	2.51	0.40
1:AL:250:TRP:HZ3	1:AL:272:TYR:HE1	1.64	0.40
1:AL:252:VAL:HG22	1:AL:253:SER:N	2.36	0.40
1:AM:203:THR:CB	1:AM:300:GLN:HG3	2.51	0.40
1:AQ:379:VAL:CG1	1:AQ:381:MET:CE	2.99	0.40
1:AQ:414:LYS:HA	1:AR:411:GLU:HB3	2.03	0.40
1:AT:18:ARG:HG3	1:AT:19:TYR:N	2.35	0.40
1:BC:201:GLY:HA3	1:BC:300:GLN:HG2	2.03	0.40
1:BE:272:TYR:CD2	1:BM:55:ARG:CZ	3.03	0.40
1:BG:48:PRO:HG2	1:BG:50:PHE:CZ	2.56	0.40
1:BL:340:LEU:HD23	1:BL:340:LEU:HA	1.92	0.40
1:BN:189:PHE:CE2	1:BN:249:LEU:HD21	2.48	0.40
1:BO:226:VAL:HG13	1:BO:228:GLY:H	1.85	0.40
1:BO:324:LEU:HD23	1:BO:324:LEU:C	2.41	0.40
1:BO:371:ASP:OD1	1:BO:381:MET:HG2	2.21	0.40
1:BP:239:ILE:HG12	1:BP:326:ILE:CD1	2.51	0.40
1:CB:14:CYS:H	1:CB:138:ASN:ND2	2.18	0.40
1:CC:189:PHE:CE2	1:CC:249:LEU:HD21	2.56	0.40
1:CD:182:LEU:HG	1:CD:330:ILE:HB	2.03	0.40
1:CH:182:LEU:HG	1:CH:330:ILE:HB	2.02	0.40
1:CK:10:ILE:HG21	1:CK:146:TRP:CZ2	2.55	0.40
1:CM:182:LEU:HG	1:CM:330:ILE:HB	2.03	0.40
1:CO:9:TYR:HE1	1:CO:147:GLN:HE21	1.69	0.40
1:CO:175:PHE:CD2	1:CO:175:PHE:O	2.75	0.40
1:CP:79:ARG:CG	1:CP:79:ARG:NH1	2.78	0.40
1:CS:226:VAL:HG13	1:CS:228:GLY:H	1.85	0.40
1:CT:252:VAL:HG22	1:CT:253:SER:N	2.35	0.40
1:AB:175:PHE:CD2	1:AB:175:PHE:O	2.75	0.40
1:AD:236:ARG:HA	1:AD:278:SER:HA	2.03	0.40
1:AH:434:GLY:O	1:AI:349:VAL:HG23	2.21	0.40
1:AI:203:THR:HB	1:AI:300:GLN:HG3	2.02	0.40
1:AK:47:MET:HG2	1:AK:117:ALA:HB2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:393:HIS:CG	1:AM:496:PHE:HB3	2.57	0.40
1:AO:170:PHE:HD1	1:AO:389:MET:CE	2.33	0.40
1:AO:324:LEU:HD23	1:AO:324:LEU:C	2.41	0.40
1:AR:379:VAL:CG1	1:AR:381:MET:CE	2.99	0.40
1:AS:163:LEU:HD12	1:AS:163:LEU:HA	1.90	0.40
1:AT:234:ARG:CG	1:AT:280:GLU:HG2	2.51	0.40
1:BA:401:ASP:O	1:BA:488:CYS:HA	2.21	0.40
1:BD:25:ILE:HG23	1:BD:152:LEU:HD11	2.02	0.40
1:BE:238:HIS:HE1	1:BE:329:GLN:OE1	2.04	0.40
1:BE:324:LEU:HD23	1:BE:324:LEU:C	2.42	0.40
1:BF:272:TYR:HD2	1:CK:55:ARG:HD3	1.80	0.40
1:BG:272:TYR:CD2	1:CG:55:ARG:NH1	2.89	0.40
1:BH:35:VAL:O	1:BH:39:LYS:HG3	2.21	0.40
1:BJ:185:PRO:HA	1:BJ:186:PRO:HD3	1.95	0.40
1:BK:28:MET:HE2	1:BK:152:LEU:HG	2.04	0.40
1:BL:263:ASN:O	1:BL:267:LYS:HG3	2.21	0.40
1:BM:22:THR:OG1	1:BM:131:HIS:CD2	2.65	0.40
1:BN:272:TYR:N	1:BN:272:TYR:HD1	2.18	0.40
1:BP:73:TYR:CE2	1:BP:394:GLY:HA3	2.56	0.40
1:BP:437:HIS:CE1	1:BQ:405:GLN:NE2	2.89	0.40
1:BQ:36:GLN:HE22	1:BQ:156:LEU:H	1.63	0.40
1:BR:454:ASN:HD22	1:BR:454:ASN:C	2.25	0.40
1:BS:171:ASP:HA	1:BS:172:PRO:HD3	1.80	0.40
1:CA:444:LEU:HD13	1:CE:440:ALA:HB3	2.03	0.40
1:CB:300:GLN:HE21	1:CB:300:GLN:HB2	1.69	0.40
1:CC:170:PHE:HD1	1:CC:389:MET:HE2	1.86	0.40
1:CD:175:PHE:O	1:CD:175:PHE:CD2	2.74	0.40
1:CE:11:PRO:HG2	1:CE:18:ARG:HD2	2.03	0.40
1:CE:197:LEU:HD13	1:CE:309:TYR:CE1	2.56	0.40
1:CF:379:VAL:HG12	1:CF:381:MET:HE2	2.03	0.40
1:CH:28:MET:CE	1:CH:152:LEU:HG	2.51	0.40
1:CQ:203:THR:HB	1:CQ:300:GLN:HG3	2.03	0.40
1:CQ:335:ARG:N	1:CQ:336:PRO:HD3	2.36	0.40
1:CR:171:ASP:HA	1:CR:172:PRO:HD3	1.78	0.40
1:AC:318:SER:HA	1:AC:319:GLY:HA2	1.81	0.40
1:AD:25:ILE:HD12	1:AD:128:PRO:HB2	2.04	0.40
1:AE:182:LEU:HD12	1:AE:182:LEU:C	2.42	0.40
1:AE:379:VAL:CG1	1:AE:381:MET:HE2	2.51	0.40
1:AF:285:SER:HA	1:AF:286:PRO:HD3	1.96	0.40
1:AJ:272:TYR:N	1:AJ:272:TYR:HD1	2.20	0.40
1:AL:443:LYS:HE2	1:AM:444:LEU:HB2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:175:PHE:CD2	1:AN:175:PHE:O	2.74	0.40
1:AO:188:PHE:C	1:AO:189:PHE:HD1	2.23	0.40
1:AP:285:SER:HA	1:AP:286:PRO:HD3	1.91	0.40
1:AS:326:ILE:HD13	1:AS:326:ILE:HA	1.94	0.40
1:AT:28:MET:CE	1:AT:152:LEU:HG	2.51	0.40
1:BA:163:LEU:HD12	1:BA:163:LEU:HA	1.91	0.40
1:BD:232:THR:HB	1:BD:334:VAL:CG2	2.51	0.40
1:BE:340:LEU:HA	1:BE:340:LEU:HD23	1.90	0.40
1:BF:475:LEU:HB3	1:BF:478:ALA:HB2	2.03	0.40
1:BO:47:MET:HG2	1:BO:117:ALA:HB2	2.03	0.40
1:BO:182:LEU:C	1:BO:182:LEU:HD12	2.42	0.40
1:BQ:28:MET:HE2	1:BQ:152:LEU:HG	2.02	0.40
1:CE:191:LEU:HD23	1:CE:191:LEU:N	2.18	0.40
1:CF:429:ALA:HB3	1:CG:296:ALA:HB2	2.03	0.40
1:CK:395:LEU:HB2	1:CK:497:TYR:HB2	2.03	0.40
1:CK:440:ALA:CB	1:CL:444:LEU:HD13	2.52	0.40
1:CM:25:ILE:HG23	1:CM:152:LEU:HD11	2.03	0.40
1:CO:241:ALA:HB1	1:CO:242:PRO:HD2	2.03	0.40
1:CQ:379:VAL:HG11	1:CQ:381:MET:HE1	2.04	0.40
1:CR:434:GLY:O	1:CS:349:VAL:HG23	2.22	0.40
1:AA:318:SER:HA	1:AA:319:GLY:HA2	1.82	0.40
1:AB:45:LEU:HD23	1:AB:45:LEU:HA	1.93	0.40
1:AF:418:SER:HB3	1:AG:407:SER:HB3	2.03	0.40
1:AG:272:TYR:CE2	1:BG:55:ARG:HD3	2.55	0.40
1:AG:324:LEU:HD23	1:AG:324:LEU:C	2.42	0.40
1:AH:395:LEU:HB2	1:AH:497:TYR:HB2	2.04	0.40
1:AI:170:PHE:HB2	1:AI:496:PHE:HE1	1.86	0.40
1:AJ:324:LEU:HA	1:AJ:325:PRO:HD3	1.86	0.40
1:AN:20:LEU:HB2	1:AN:132:PHE:O	2.21	0.40
1:AN:308:PHE:CZ	1:AN:328:VAL:HG21	2.56	0.40
1:AO:170:PHE:HD1	1:AO:389:MET:HE2	1.87	0.40
1:AP:61:PHE:CE2	1:AP:243:ILE:HD11	2.57	0.40
1:AQ:10:ILE:HA	1:AQ:11:PRO:HD3	1.84	0.40
1:BA:20:LEU:HB2	1:BA:132:PHE:O	2.21	0.40
1:BA:404:LEU:N	1:BA:404:LEU:HD23	2.37	0.40
1:BE:404:LEU:N	1:BE:404:LEU:HD23	2.36	0.40
1:BF:30:SER:HA	1:BF:37:TYR:CD1	2.57	0.40
1:BF:324:LEU:HA	1:BF:325:PRO:HD3	1.83	0.40
1:BF:395:LEU:HB2	1:BF:497:TYR:HB2	2.03	0.40
1:BJ:250:TRP:HE3	1:BJ:272:TYR:CD1	2.39	0.40
1:BL:189:PHE:HE2	1:BL:249:LEU:HD21	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BM:318:SER:HA	1:BM:319:GLY:HA2	1.78	0.40
1:BN:182:LEU:C	1:BN:182:LEU:HD12	2.41	0.40
1:BQ:108:ILE:HG23	1:BQ:113:LEU:HD12	2.03	0.40
1:BT:55:ARG:NH1	1:CA:272:TYR:CD2	2.90	0.40
1:BT:372:PHE:H	1:BT:381:MET:HE1	1.86	0.40
1:CA:182:LEU:C	1:CA:182:LEU:HD12	2.42	0.40
1:CA:252:VAL:HG22	1:CA:253:SER:N	2.36	0.40
1:CA:440:ALA:HB3	1:CB:444:LEU:HD13	2.04	0.40
1:CC:163:LEU:HD12	1:CC:163:LEU:HA	1.88	0.40
1:CD:263:ASN:O	1:CD:267:LYS:HG3	2.21	0.40
1:CE:404:LEU:HD22	1:CE:486:VAL:HG22	2.02	0.40
1:CF:33:LYS:HB2	1:CF:33:LYS:HE2	1.96	0.40
1:CI:163:LEU:HA	1:CI:163:LEU:HD12	1.85	0.40
1:CI:189:PHE:CE1	1:CI:198:ARG:HG2	2.55	0.40
1:CJ:189:PHE:CE2	1:CJ:249:LEU:HD21	2.46	0.40
1:CK:175:PHE:CD2	1:CK:175:PHE:O	2.74	0.40
1:CK:324:LEU:HD23	1:CK:324:LEU:C	2.42	0.40
1:CK:404:LEU:HD22	1:CK:486:VAL:HG22	2.02	0.40
1:CP:207:VAL:HA	1:CP:208:PRO:HD3	1.86	0.40
1:CQ:340:LEU:HA	1:CQ:340:LEU:HD23	1.93	0.40
1:CQ:404:LEU:HD22	1:CQ:486:VAL:HG22	2.03	0.40
1:CR:75:ARG:NH2	1:CR:391:ALA:O	2.54	0.40
1:CR:252:VAL:HG22	1:CR:253:SER:N	2.36	0.40
1:CR:423:LYS:HE2	1:CR:449:GLU:O	2.21	0.40
1:CT:189:PHE:HD2	1:CT:247:ILE:CD1	2.35	0.40
1:AA:61:PHE:CD2	1:AA:243:ILE:HD11	2.56	0.40
1:AF:22:THR:OG1	1:AF:131:HIS:CD2	2.60	0.40
1:AF:185:PRO:HA	1:AF:186:PRO:HD3	1.90	0.40
1:AM:418:SER:HB3	1:AN:407:SER:HB3	2.04	0.40
1:AN:108:ILE:HG23	1:AN:113:LEU:HD12	2.03	0.40
1:AO:234:ARG:CG	1:AO:280:GLU:HG2	2.52	0.40
1:AP:395:LEU:HB2	1:AP:497:TYR:HB2	2.03	0.40
1:AQ:22:THR:OG1	1:AQ:131:HIS:CD2	2.63	0.40
1:AQ:48:PRO:HG2	1:AQ:50:PHE:CZ	2.57	0.40
1:AT:10:ILE:HG21	1:AT:146:TRP:CZ2	2.57	0.40
1:BA:207:VAL:HA	1:BA:208:PRO:HD3	1.86	0.40
1:BC:232:THR:HB	1:BC:334:VAL:CG2	2.52	0.40
1:BC:238:HIS:HE1	1:BC:329:GLN:OE1	2.05	0.40
1:BD:314:PRO:HB3	1:BD:324:LEU:HD13	2.04	0.40
1:BG:163:LEU:HD12	1:BG:163:LEU:HA	1.93	0.40
1:BG:203:THR:HB	1:BG:300:GLN:HG3	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BH:22:THR:OG1	1:BH:131:HIS:CD2	2.64	0.40
1:BI:35:VAL:HG23	1:BQ:38:GLU:HB3	2.04	0.40
1:BI:379:VAL:HG11	1:BI:381:MET:HE1	2.03	0.40
1:BN:189:PHE:HD2	1:BN:247:ILE:HD11	1.86	0.40
1:BQ:171:ASP:HA	1:BQ:172:PRO:HD3	1.80	0.40
1:BR:255:TRP:CE3	1:BR:285:SER:HB2	2.56	0.40
1:BS:182:LEU:HD12	1:BS:182:LEU:C	2.41	0.40
1:BT:188:PHE:C	1:BT:189:PHE:HD1	2.25	0.40
1:CB:170:PHE:HB2	1:CB:496:PHE:HE1	1.86	0.40
1:CC:22:THR:OG1	1:CC:131:HIS:CD2	2.66	0.40
1:CC:61:PHE:CD2	1:CC:243:ILE:HD11	2.57	0.40
1:CC:340:LEU:HD23	1:CC:340:LEU:HA	1.92	0.40
1:CD:126:GLU:HG3	1:CD:127:SER:H	1.85	0.40
1:CG:48:PRO:HG2	1:CG:50:PHE:CZ	2.56	0.40
1:CG:440:ALA:HB3	1:CH:444:LEU:HD13	2.03	0.40
1:CH:175:PHE:CD2	1:CH:175:PHE:O	2.75	0.40
1:CH:241:ALA:HB1	1:CH:242:PRO:HD2	2.03	0.40
1:CH:314:PRO:HB3	1:CH:324:LEU:HD13	2.04	0.40
1:CH:434:GLY:O	1:CI:349:VAL:HG23	2.22	0.40
1:CI:354:SER:H	1:CI:378:ARG:HB3	1.86	0.40
1:CI:423:LYS:HE2	1:CI:449:GLU:O	2.21	0.40
1:CJ:163:LEU:HA	1:CJ:163:LEU:HD12	1.85	0.40
1:CJ:250:TRP:CZ3	1:CJ:272:TYR:CD1	3.08	0.40
1:CL:255:TRP:CG	1:CL:286:PRO:HD3	2.57	0.40
1:CM:404:LEU:HD22	1:CM:486:VAL:HG22	2.04	0.40
1:CN:182:LEU:HG	1:CN:330:ILE:HB	2.04	0.40
1:CO:326:ILE:HD13	1:CO:326:ILE:HA	1.90	0.40
1:CO:423:LYS:HE2	1:CO:449:GLU:O	2.21	0.40

All (12) 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:BG:18:ARG:NH2	1:CJ:297:GLY:CA[2_646]	1.46	0.74
1:BD:463:ARG:NH2	1:CB:145:ASP:OD2[2_545]	1.54	0.66
1:AI:463:ARG:NH2	1:AM:360:LYS:CE[2_546]	1.57	0.63
1:AJ:301:ARG:NH2	1:AN:411:GLU:OE2[2_546]	1.59	0.61
1:AG:15:GLN:OE1	1:CI:81:THR:OG1[2_646]	1.80	0.40
1:AI:129:ARG:NH1	1:AM:355:GLU:OE1[2_546]	1.85	0.35
1:AI:375:ASN:ND2	1:AM:429:ALA:CB[2_546]	1.92	0.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BD:463:ARG:NH2	1:CB:145:ASP:CG[2_545]	1.98	0.22
1:AI:126:GLU:OE2	1:AM:357:THR:CG2[2_546]	2.01	0.19
1:BE:212:THR:OG1	1:CB:212:THR:OG1[2_545]	2.05	0.15
1:AI:126:GLU:CD	1:AM:357:THR:CG2[2_546]	2.09	0.11
1:BG:18:ARG:NH2	1:CJ:297:GLY:N[2_646]	2.12	0.08

5.3 Torsion angles

5.3.1 Protein backbone

There are no protein backbone outliers to report in this entry.

5.3.2 Protein sidechains

There are no protein residues with a non-rotameric sidechain to report in this entry.

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 (i)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

EDS failed to run properly - this section is therefore empty.

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

EDS failed to run properly - this section is therefore empty.

6.3 Carbohydrates

EDS failed to run properly - this section is therefore empty.

6.4 Ligands

EDS failed to run properly - this section is therefore empty.

6.5 Other polymers

EDS failed to run properly - this section is therefore empty.