



Full wwPDB X-ray Structure Validation Report ⓘ

Aug 30, 2020 – 08:30 PM BST

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 ⓘ symbol.

The following versions of software and data (see [references ⓘ](#)) 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) : 2.13

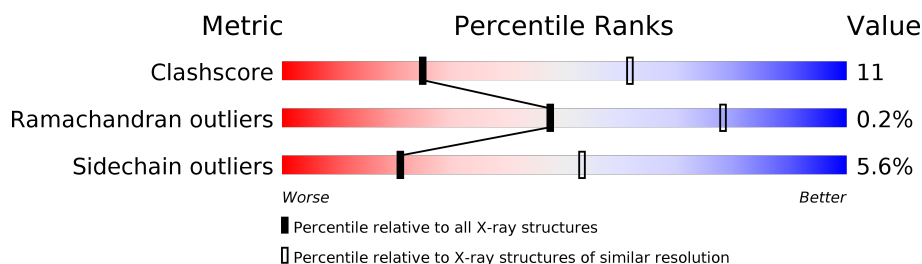
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.70 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)
Ramachandran outliers	138981	1069 (3.88-3.52)
Sidechain outliers	138945	1065 (3.88-3.52)


























The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$.

Note EDS failed to run properly.

Mol	Chain	Length	Quality of chain
1	AA	504	79% 19% .
1	AB	504	79% 17% .
1	AC	504	80% 17% .
1	AD	504	82% 16% .
1	AE	504	82% 16% .
1	AF	504	79% 18% .
1	AG	504	77% 19% .
1	AH	504	78% 19% .


























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Mol	Chain	Length	Quality of chain
1	AI	504	 79% 18% .
1	AJ	504	 78% 19% .
1	AK	504	 78% 19% .
1	AL	504	 79% 19% .
1	AM	504	 80% 18% .
1	AN	504	 78% 19% .
1	AO	504	 79% 18% .
1	AP	504	 81% 16% .
1	AQ	504	 79% 19% .
1	AR	504	 81% 17% .
1	AS	504	 82% 16% .
1	AT	504	 80% 18% .
1	BA	504	 80% 18% .
1	BB	504	 82% 16% .
1	BC	504	 80% 17% .
1	BD	504	 81% 17% .
1	BE	504	 81% 17% .
1	BF	504	 79% 19% .
1	BG	504	 80% 18% .
1	BH	504	 81% 17% .
1	BI	504	 82% 16% .
1	BJ	504	 81% 16% .
1	BK	504	 82% 16% .
1	BL	504	 81% 16% .
1	BM	504	 81% 17% .



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Mol	Chain	Length	Quality of chain
1	BN	504	 81% 16% .
1	BO	504	 80% 17% .
1	BP	504	 82% 15% .
1	BQ	504	 81% 17% .
1	BR	504	 81% 16% .
1	BS	504	 81% 17% .
1	BT	504	 79% 18% .
1	CA	504	 82% 16% .
1	CB	504	 80% 18% .
1	CC	504	 82% 16% .
1	CD	504	 81% 17% .
1	CE	504	 79% 18% .
1	CF	504	 81% 17% .
1	CG	504	 82% 16% .
1	CH	504	 79% 18% .
1	CI	504	 79% 18% .
1	CJ	504	 79% 18% .
1	CK	504	 80% 18% .
1	CL	504	 82% 16% .
1	CM	504	 80% 17% .
1	CN	504	 82% 16% .
1	CO	504	 80% 18% .
1	CP	504	 81% 16% .
1	CQ	504	 81% 17% .
1	CR	504	 78% 20% .

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Mol	Chain	Length	Quality of chain
1	CS	504	 81% 17% •
1	CT	504	 82% 15% •

2 Entry composition

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

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

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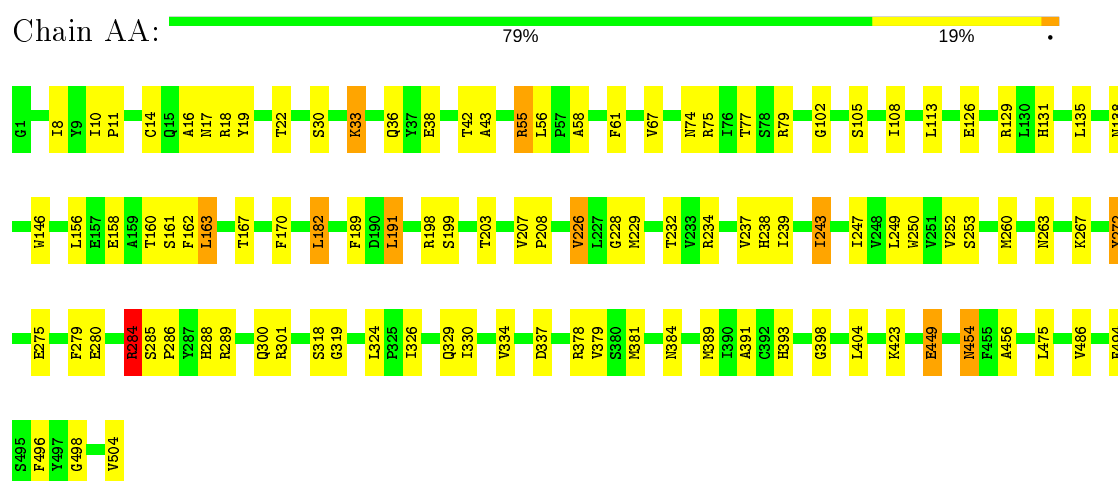
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	CS	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			
1	CT	504	Total	C	N	O	S	0	0	0
			3951	2555	653	721	22			

3 Residue-property plots [i](#)

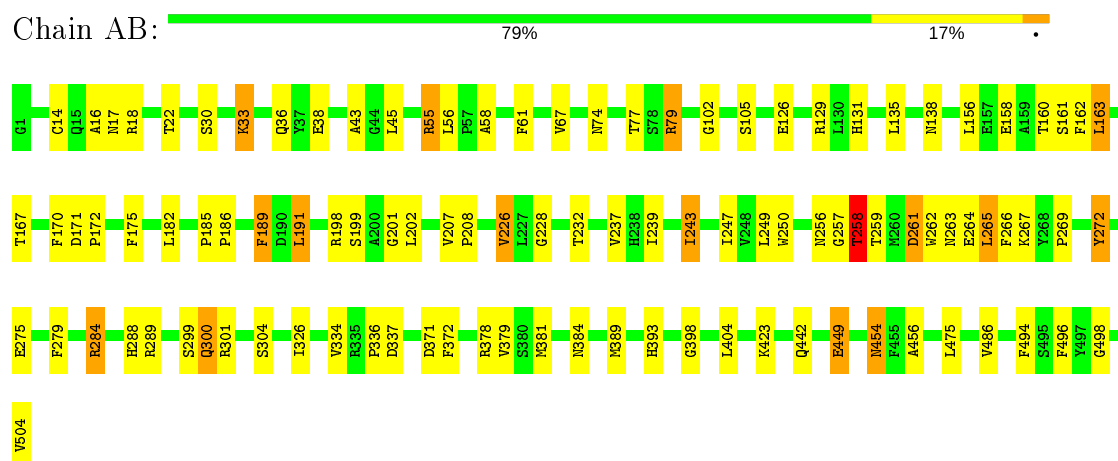
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. Residues are color-coded 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.

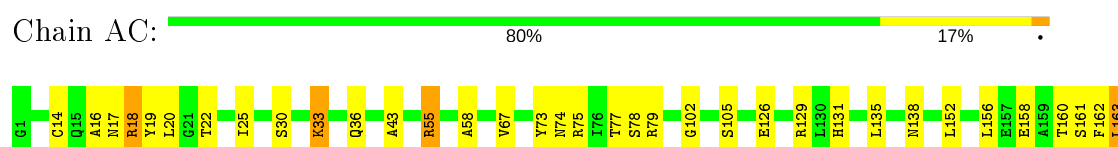
• Molecule 1: COAT PROTEIN

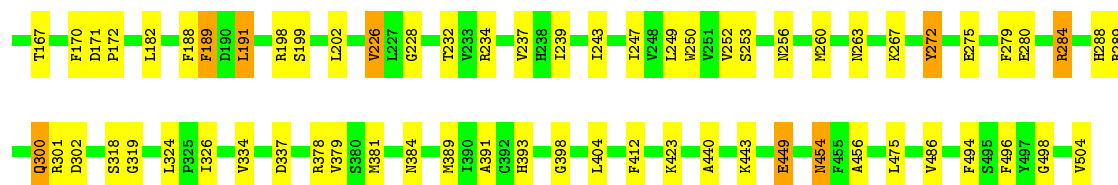


• Molecule 1: COAT PROTEIN



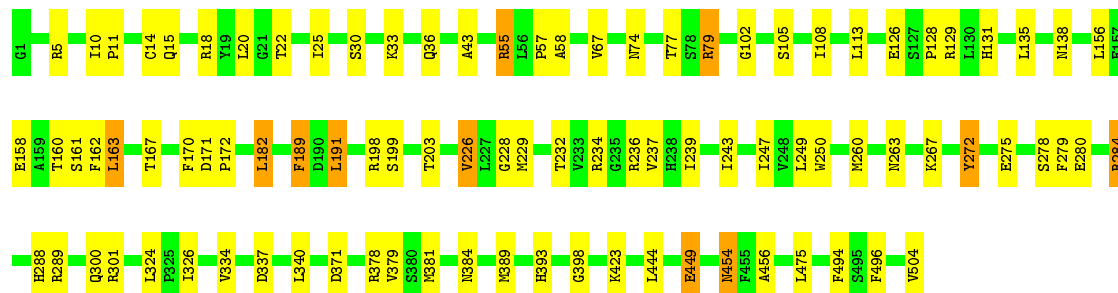
• Molecule 1: COAT PROTEIN





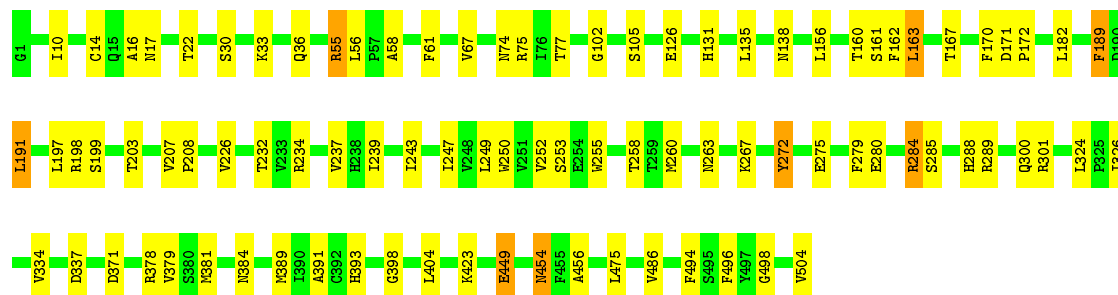
- Molecule 1: COAT PROTEIN

Chain AD: 82% 16% .



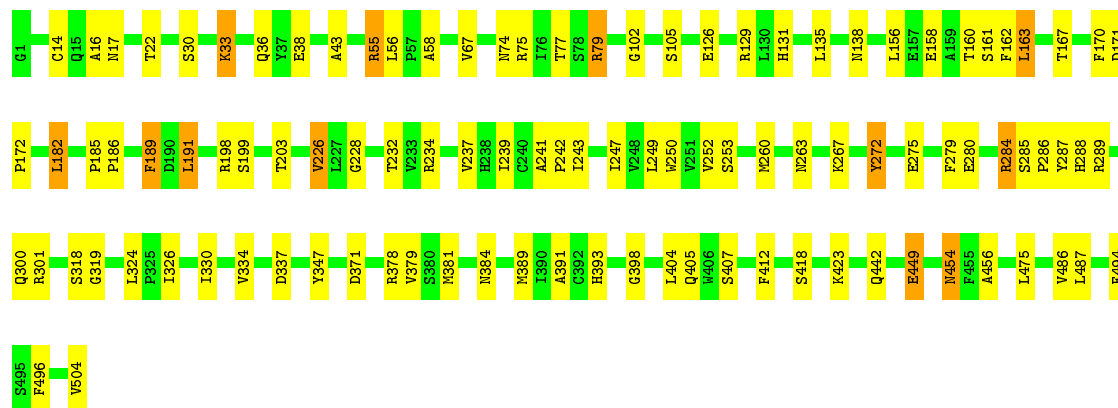
- Molecule 1: COAT PROTEIN

Chain AE: 82% 16% .




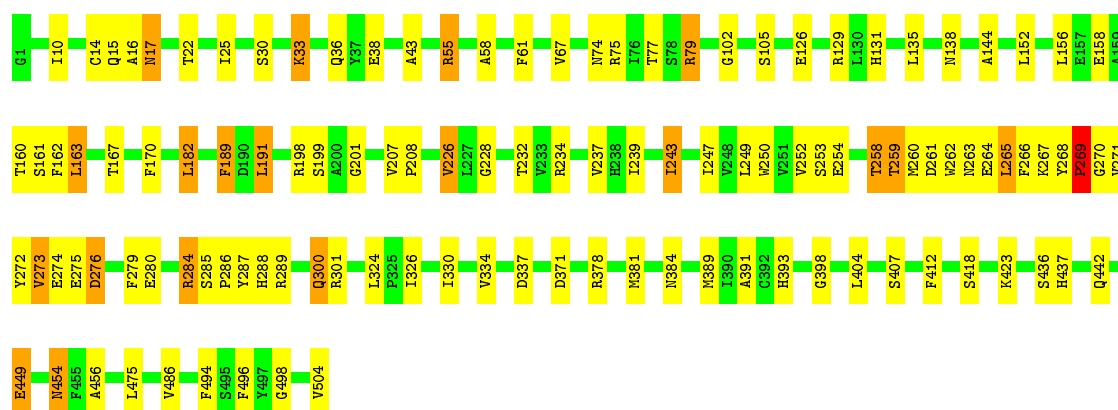
- Molecule 1: COAT PROTEIN

Chain AF: 79% 18% .




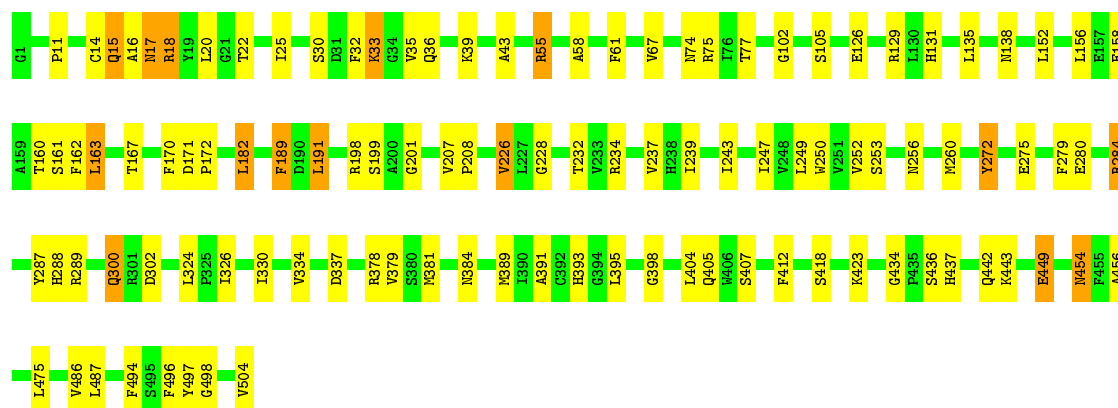
- Molecule 1: COAT PROTEIN

Chain AG:  77% 19%




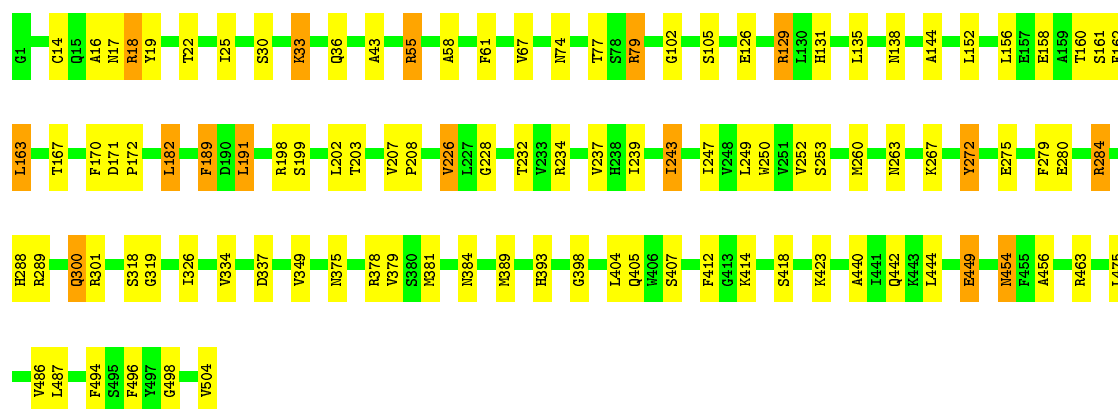
• Molecule 1: COAT PROTEIN

Chain AH:  78% 19%




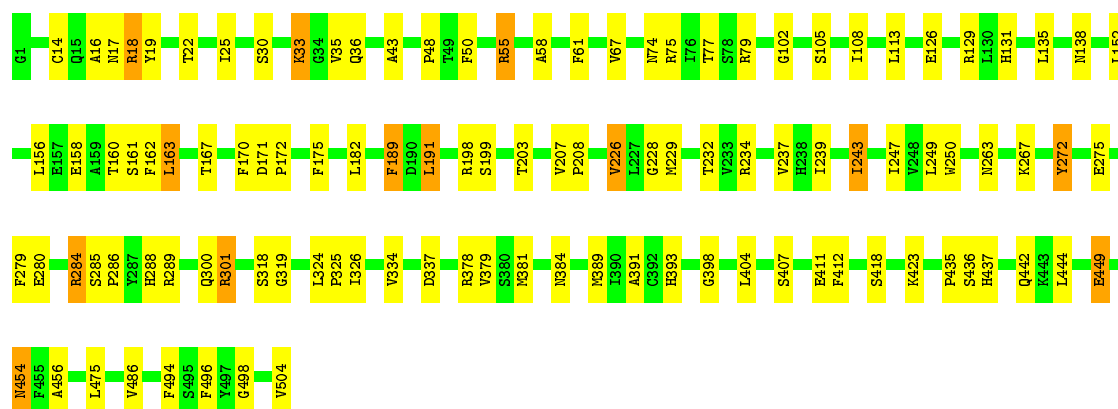
• Molecule 1: COAT PROTEIN

Chain AI:  79% 18%



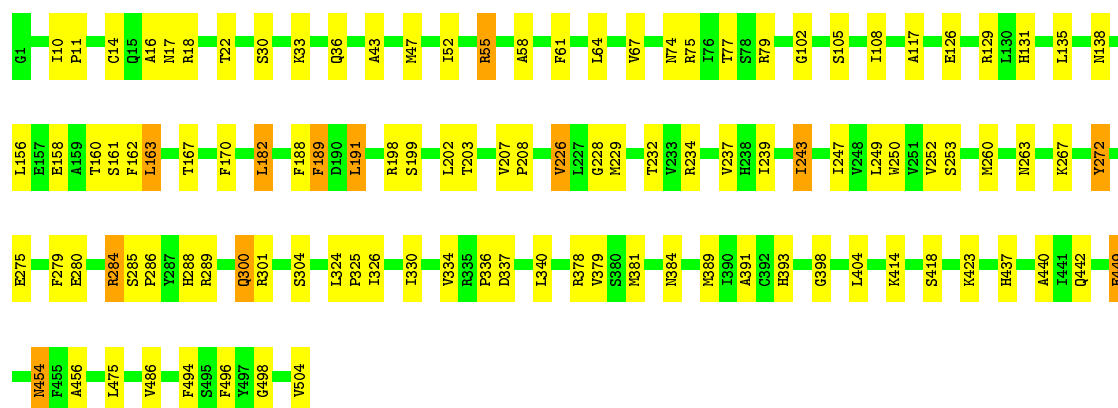
• Molecule 1: COAT PROTEIN

Chain AJ:  78% 19%



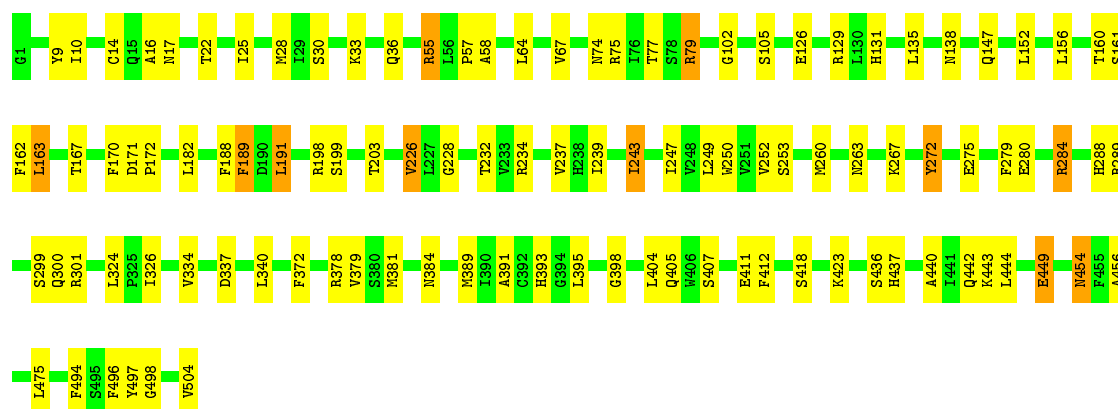
• Molecule 1: COAT PROTEIN

Chain AK: 78% 19% .



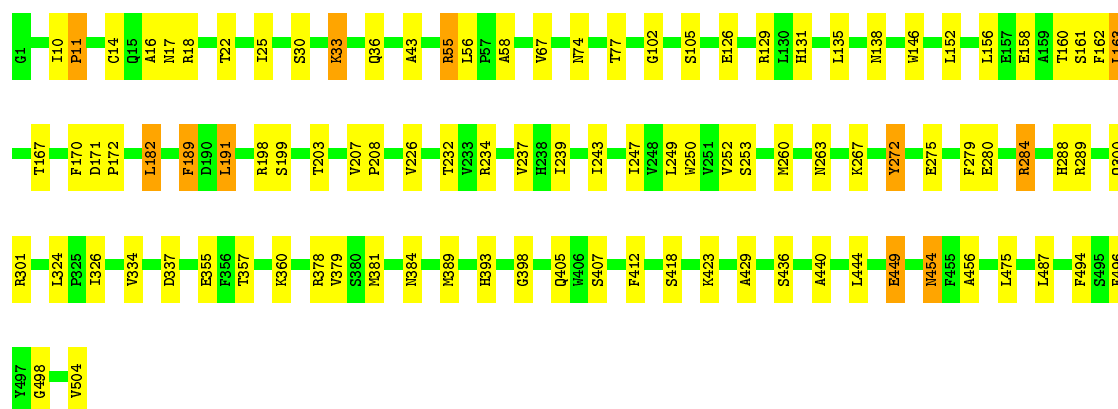
• Molecule 1: COAT PROTEIN

Chain AL: 79% 19% .



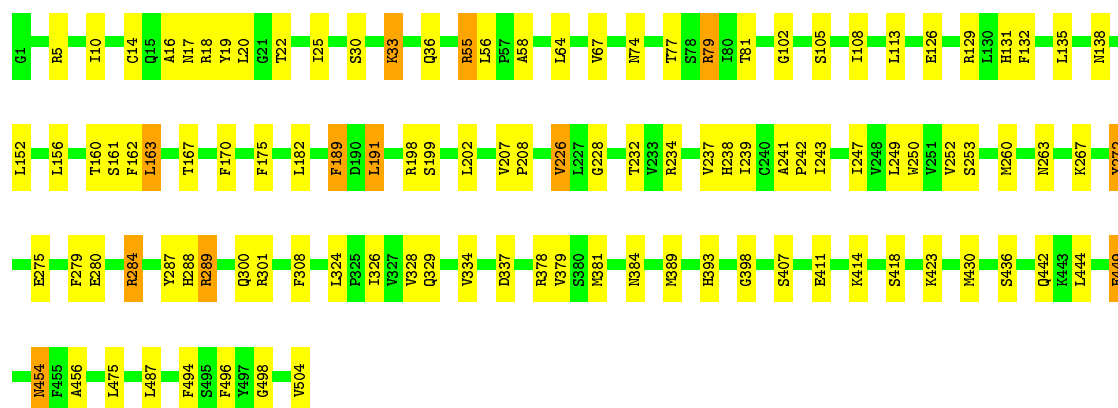
• Molecule 1: COAT PROTEIN

Chain AM: 80% 18% .



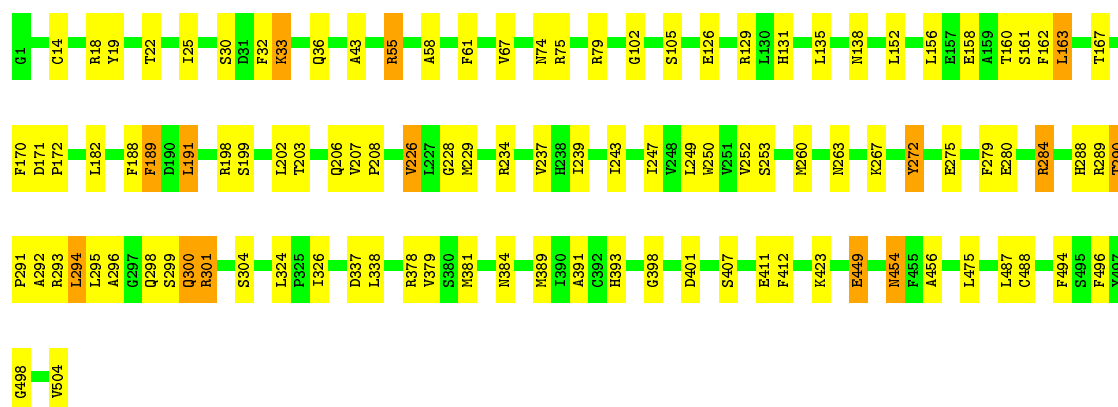
• Molecule 1: COAT PROTEIN

Chain AN: 78% 19% •



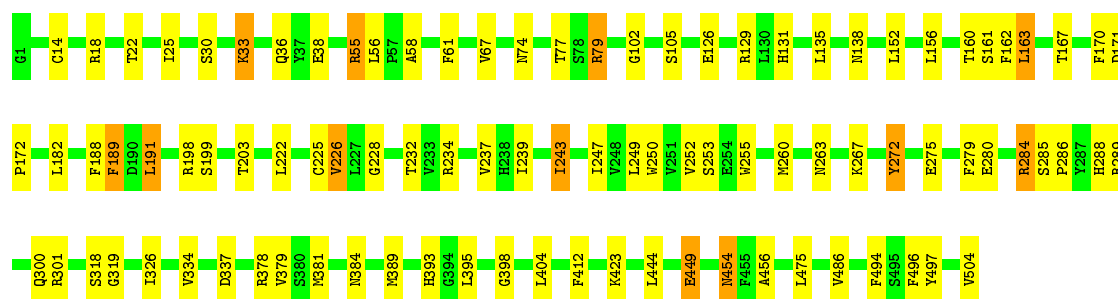
• Molecule 1: COAT PROTEIN

Chain AO: 79% 18% •



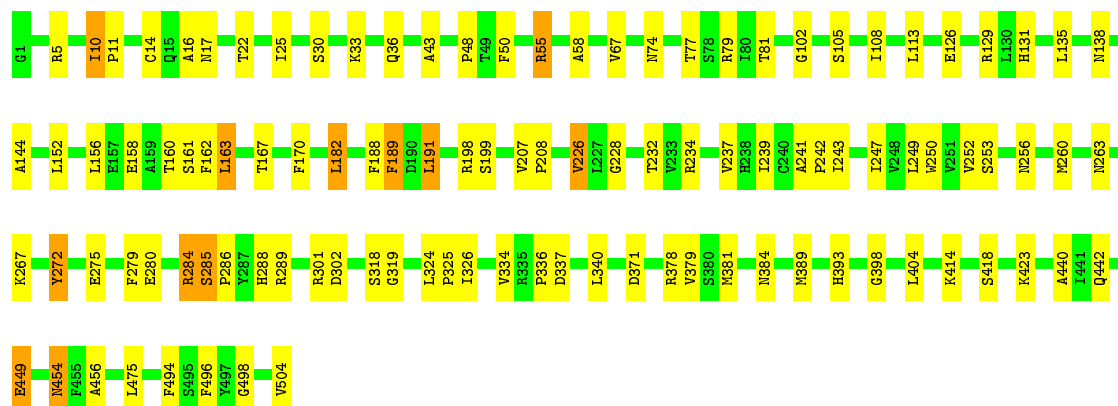
• Molecule 1: COAT PROTEIN

Chain AP: 81% 16% •



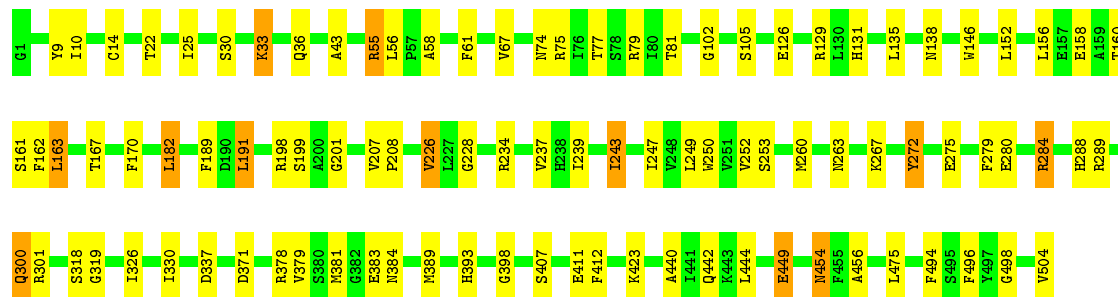
• Molecule 1: COAT PROTEIN

Chain AQ: 79% 19%



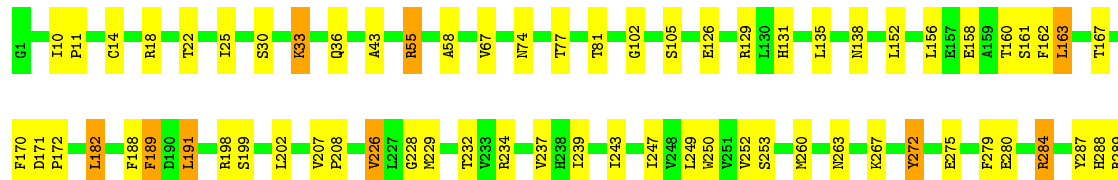
• Molecule 1: COAT PROTEIN

Chain AR: 81% 17%



• Molecule 1: COAT PROTEIN

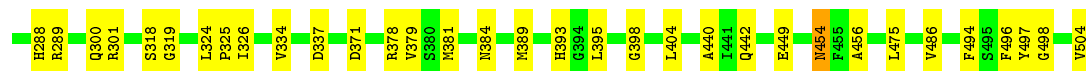
Chain AS: 82% 16%





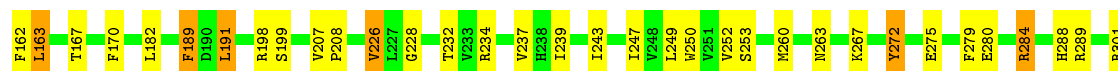
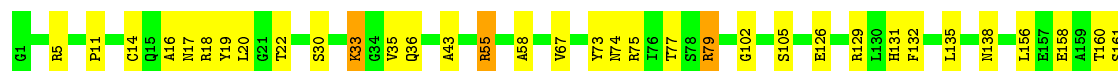
• Molecule 1: COAT PROTEIN

Chain AT: 80% 18%



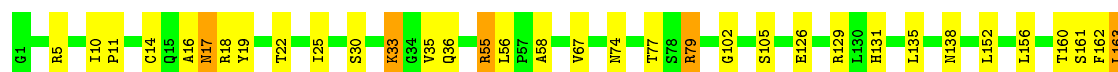
• Molecule 1: COAT PROTEIN

Chain BA: 80% 18%



• Molecule 1: COAT PROTEIN

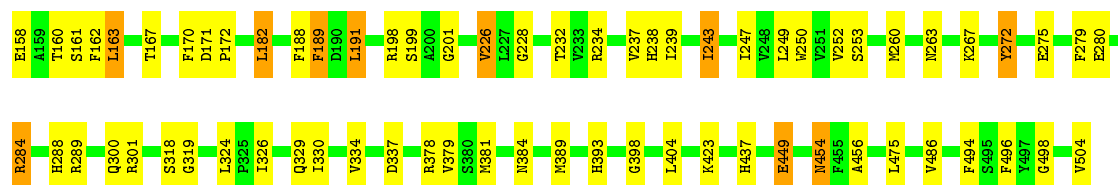
Chain BB: 82% 16%



• Molecule 1: COAT PROTEIN

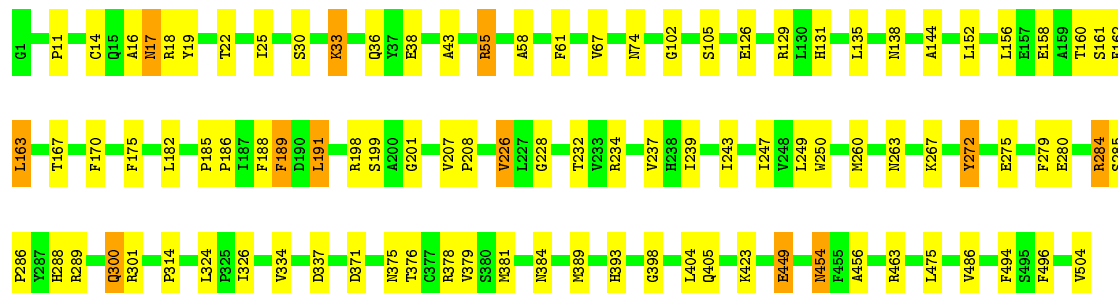
Chain BC: 80% 17%





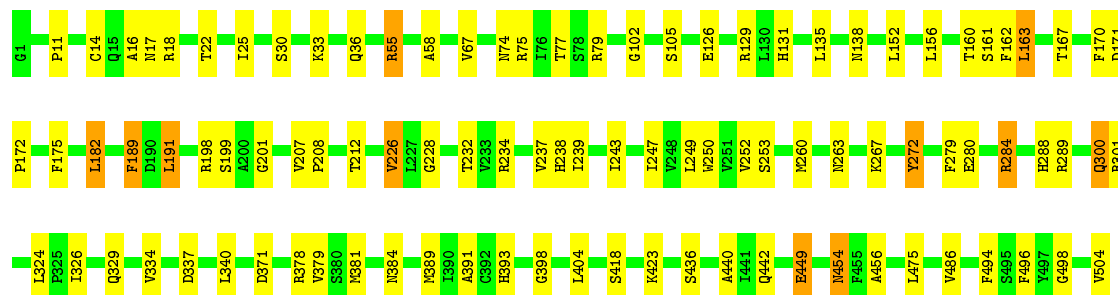
• Molecule 1: COAT PROTEIN

Chain BD: 81% 17% .



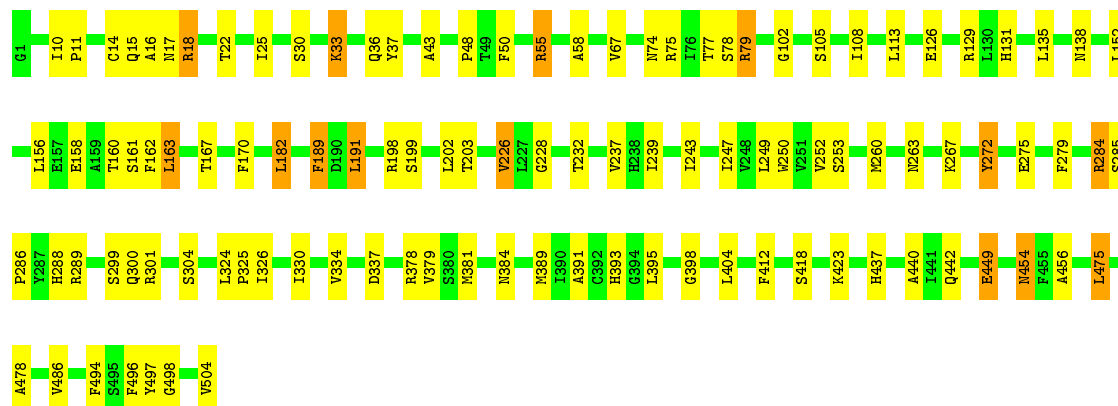
• Molecule 1: COAT PROTEIN

Chain BE: 81% 17% .




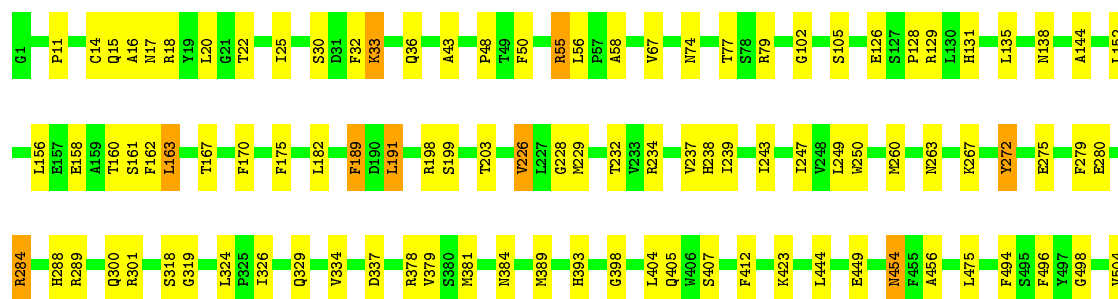
• Molecule 1: COAT PROTEIN

Chain BF: 79% 19% .




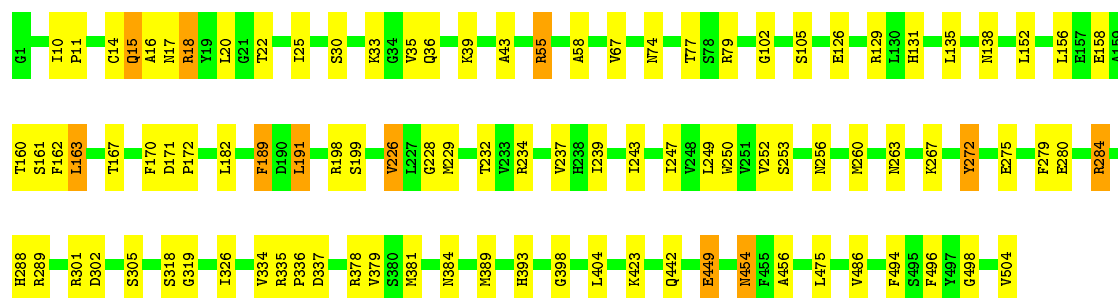
• Molecule 1: COAT PROTEIN

Chain BG:  80% 18%




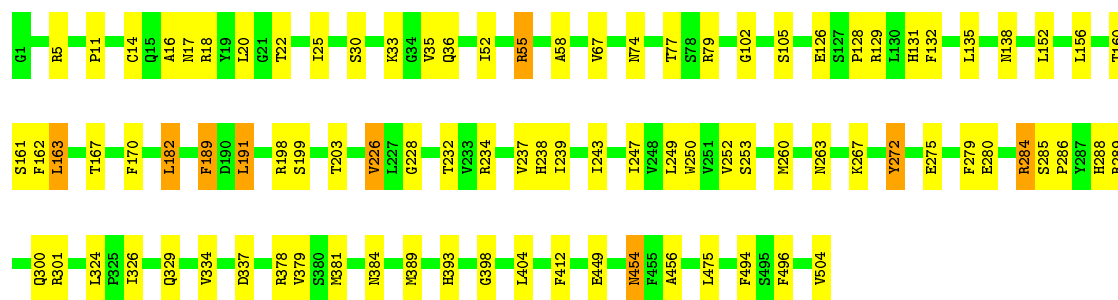
• Molecule 1: COAT PROTEIN

Chain BH:  81% 17%




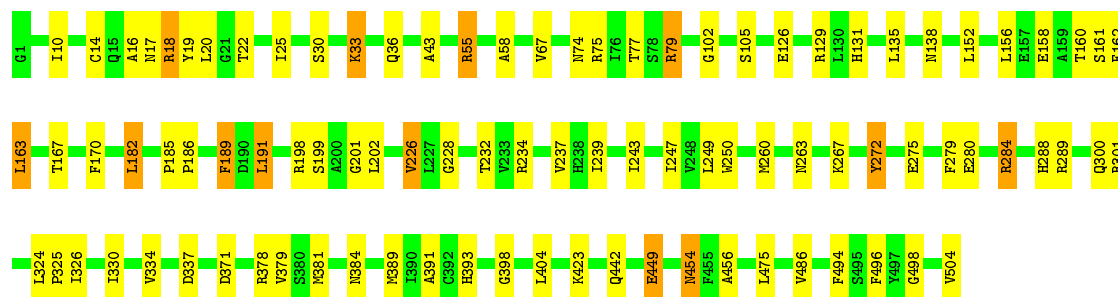
• Molecule 1: COAT PROTEIN

Chain BI:  82% 16%

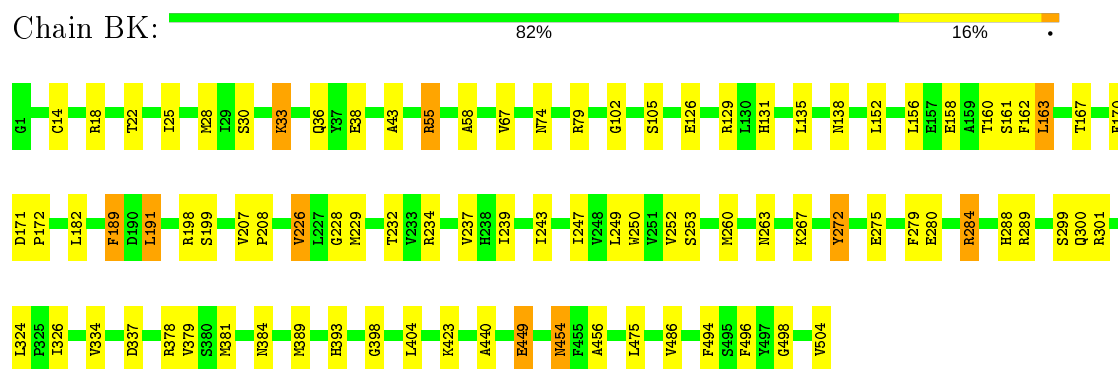


• Molecule 1: COAT PROTEIN

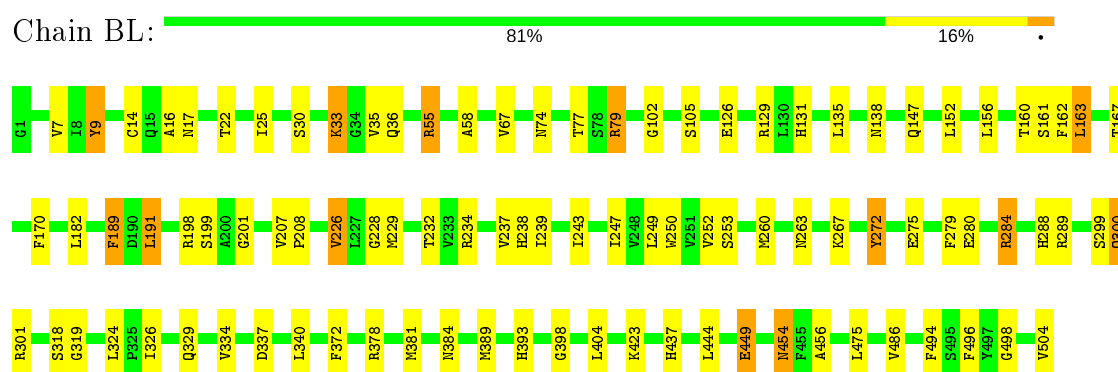
Chain BJ:  81% 16%



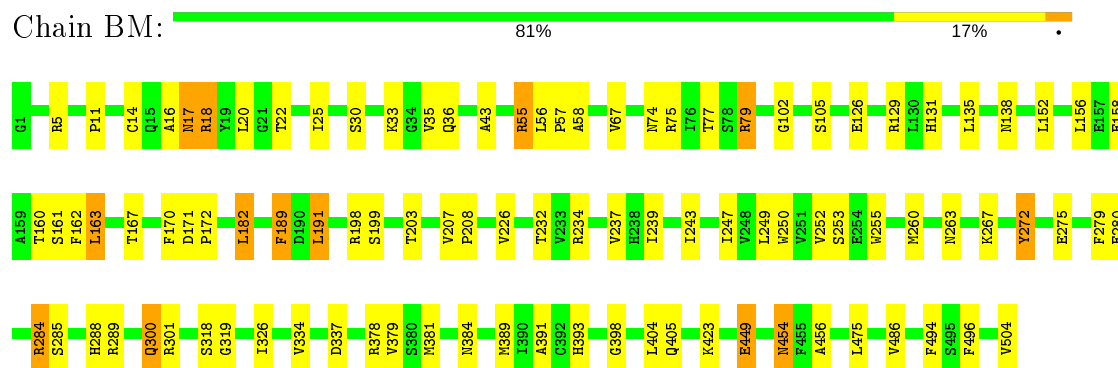
• Molecule 1: COAT PROTEIN



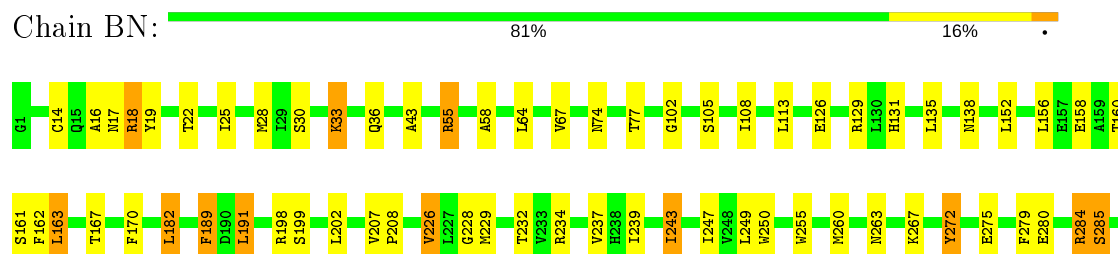
• Molecule 1: COAT PROTEIN



• Molecule 1: COAT PROTEIN



• Molecule 1: COAT PROTEIN





• Molecule 1: COAT PROTEIN

Chain BO:

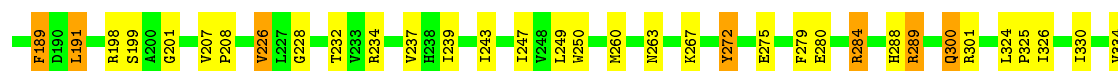
Chain BO: 80% 17% .



• Molecule 1: COAT PROTEIN

Chain BP:

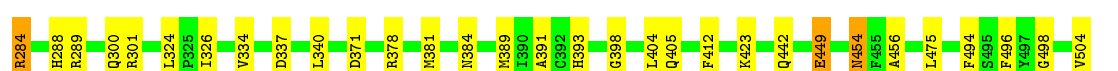
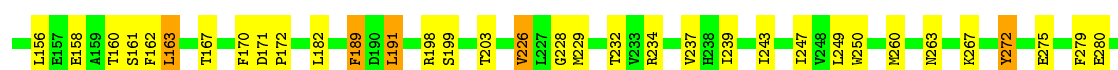
Chain BP: 82% 15% .



• Molecule 1: COAT PROTEIN

Chain BQ:

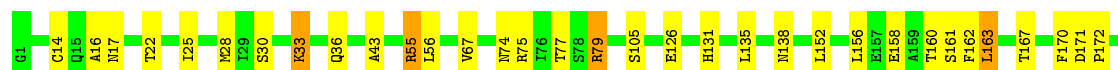
Chain BQ: 81% 17% .

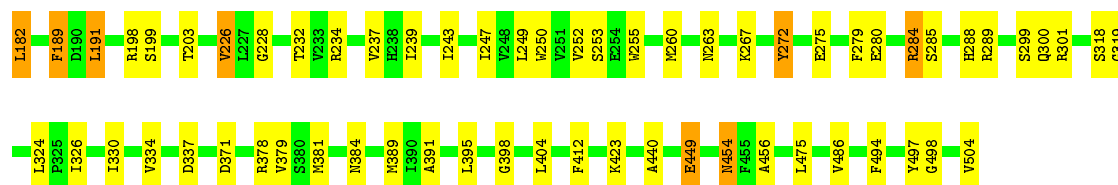


• Molecule 1: COAT PROTEIN

Chain BR:

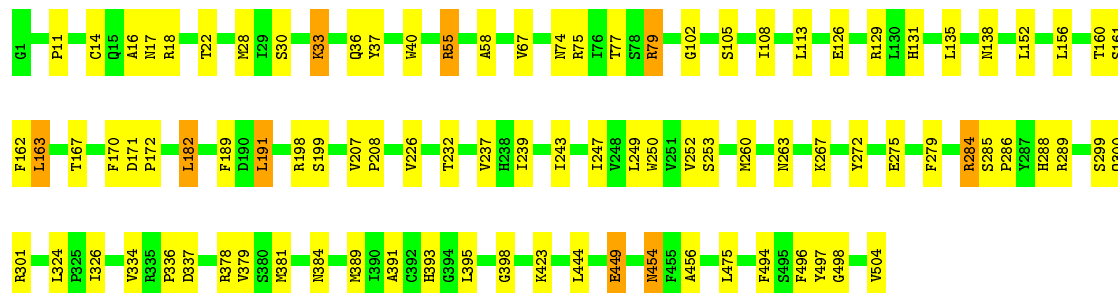
Chain BR: 81% 16% .





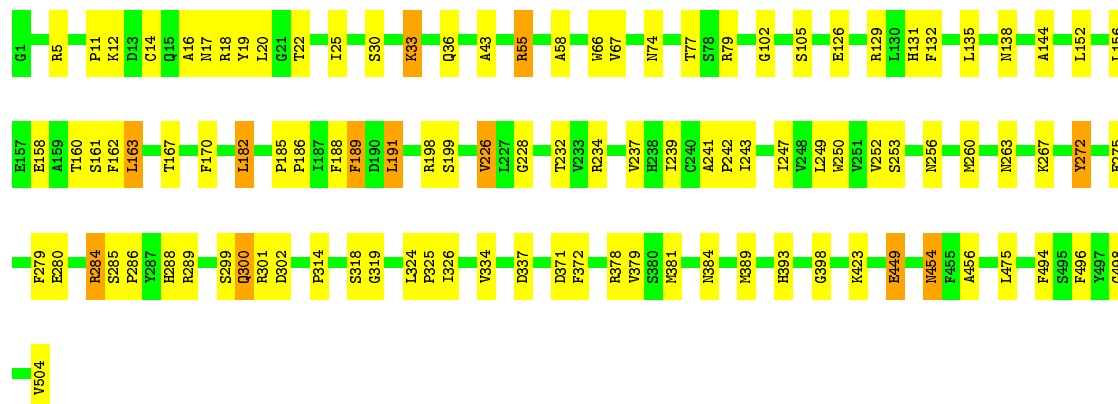
• Molecule 1: COAT PROTEIN

Chain BS: 81% 17% •



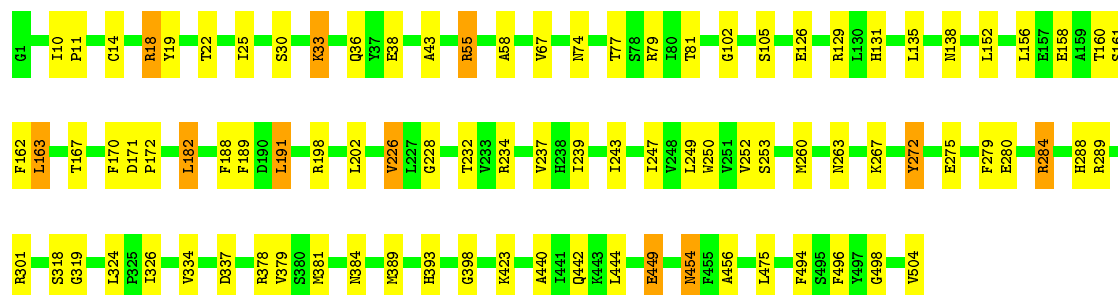
• Molecule 1: COAT PROTEIN

Chain BT: 79% 18% •

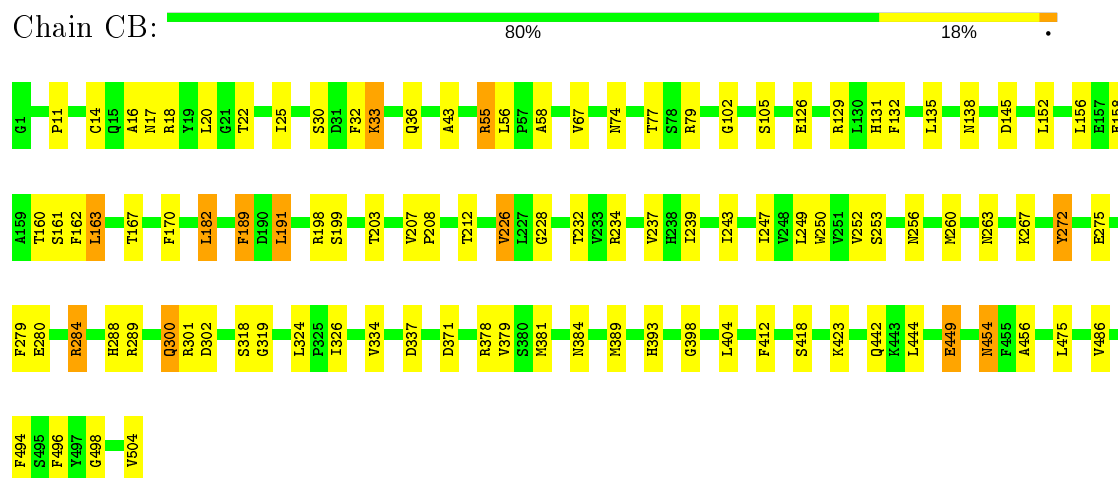


• Molecule 1: COAT PROTEIN

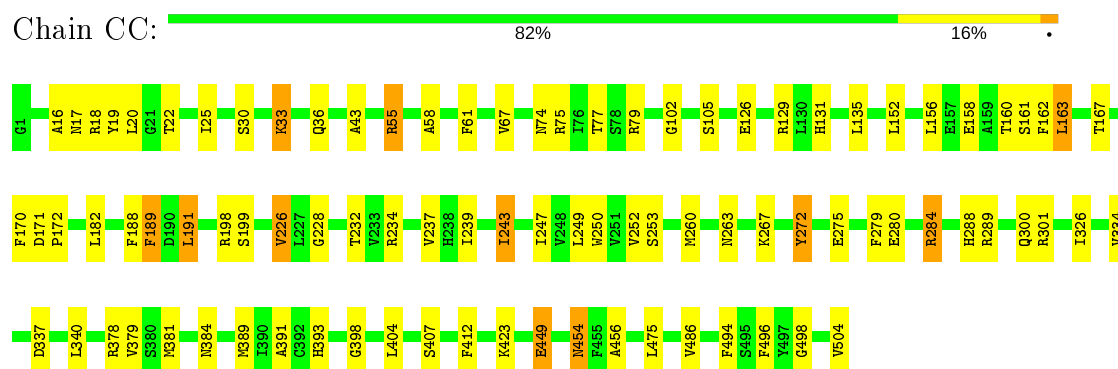
Chain CA: 82% 16% •



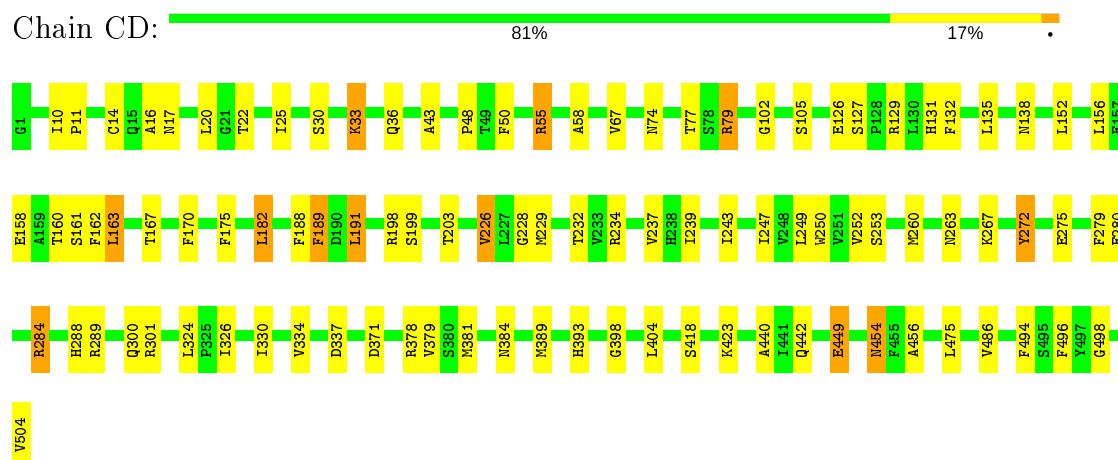
• Molecule 1: COAT PROTEIN



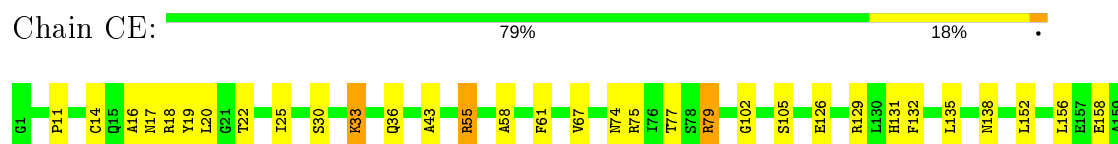
• Molecule 1: COAT PROTEIN

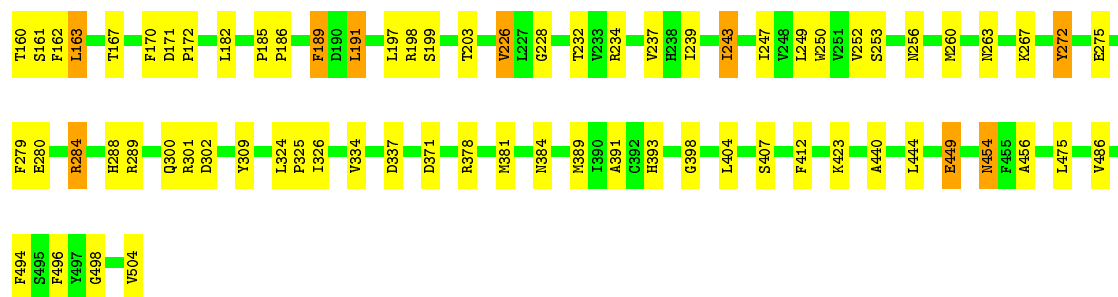


• Molecule 1: COAT PROTEIN



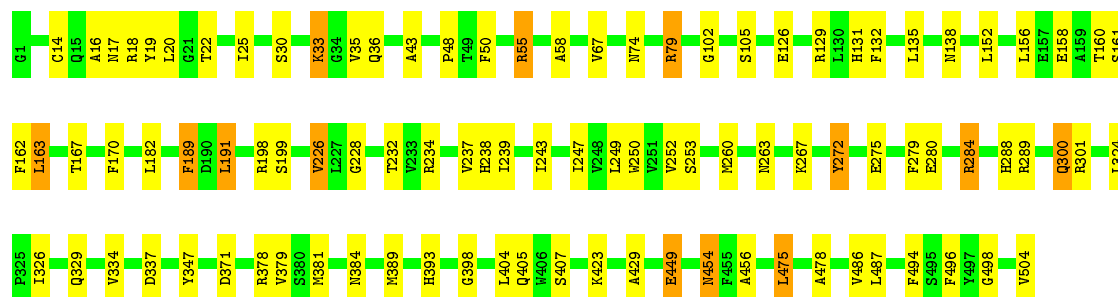
• Molecule 1: COAT PROTEIN





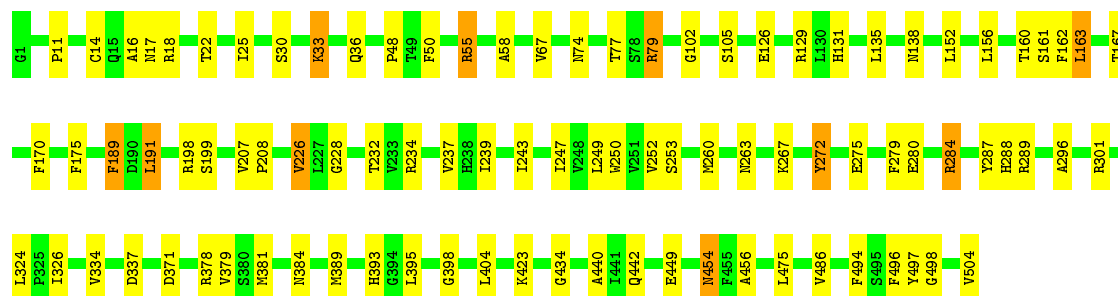
• Molecule 1: COAT PROTEIN

Chain CF: 81% 17%



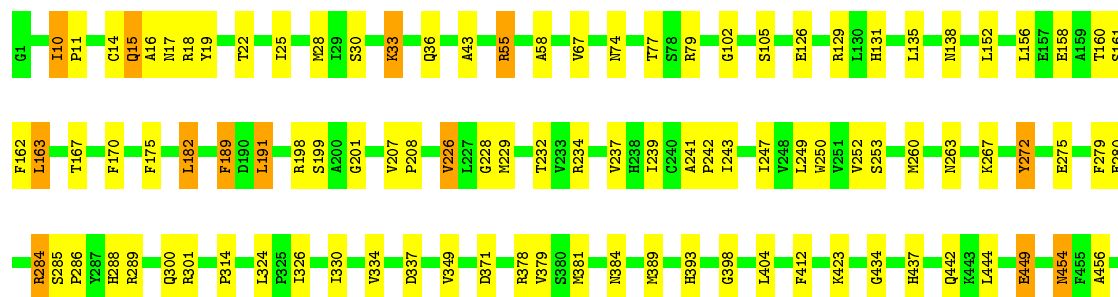
• Molecule 1: COAT PROTEIN

Chain CG: 82% 16%




• Molecule 1: COAT PROTEIN

Chain CH: 79% 18%



L475
V486
F494
S495
F496
V504

• Molecule 1: COAT PROTEIN


Chain CI:  79% 18%

G1
T10
C14
Q15
A16
Q15
A16
N17
L20
G21
T22
T25
S30
K33
Q36
Y37
E38
A43
R55
L56
P57
A58
F61
V67
N74
R75
I76
T77
S78
R79
I80
T81
G102
S105
E126
R129
L130
H131
F132
L135
N138
A144
D145
H146
L152
L156
E157
E158
A159
Q160
S161
F162
L163
T167
F170
L182
F189
D190
L191
R198
S199
V226
L227
G228
T232
V233
R234
V237
H238
I239
I243
I247
L249
H250
H255
H260
H263
K267
Y272
E275
F279
E280

R284
S285
P286
Y287
H288
R289
S299
R301
L324
P325
I326
V334
D337
V349
S354
E361
F372
T373
S374
N375
T376
G377
R378
V379
S380
N384
M389
I390
A391
C392
H393
G398
L404
Q405
F412
K423
E449
N454
F455
A456
L475

V486
F494
S495
F496
V504

• Molecule 1: COAT PROTEIN


Chain CJ:  79% 18%

G1
C14
Q15
A16
N17
R18
Y19
T160
G21
T22
T25
S30
D31
F32
K33
Q36
A43
R55
L56
P57
A58
F61
V67
N74
R75
I76
T77
S78
R79
G102
S105
E126
R129
L130
H131
F132
L135
N138
A144
L152
L156
E157
E158
A159
S161
F162
L163
F170
D171
P172
L182
P185
P186
F189
D190
L191
R198
S199
L202
V207
P208
V226
L227
G228
T232
V233
R234
V237
H238
I239
I243
I247
V248
L249
H250
V251
V252
S253
H260
H263
K267
Y272
E275

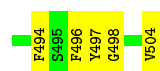
F279
E280
R284
H288
R289
G297
Q300
R301
S304
L324
P325
I326
T330
V334
D337
R378
V379
S380
N381
N384
M389
I390
A391
C392
H393
G398
L404
S418
K423
P435
S436
H437
E449
N454
F455
A456
L475
V486

F494
S495
F496
G498
V504

• Molecule 1: COAT PROTEIN

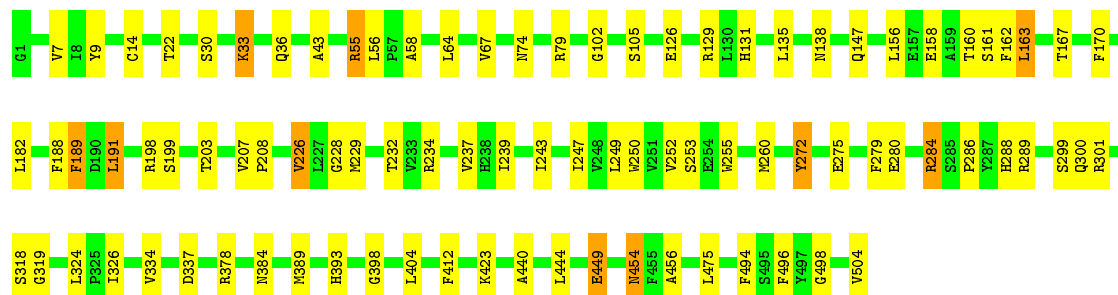
Chain CK:  80% 18%

G1
Y9
T10
P11
K12
D13
C14
Q15
A16
N17
R18
T22
T25
S30
K33
Q36
A43
R55
A58
V67
H74
T77
S78
R79
G102
S105
I108
L113
E126
R129
L130
H131
L135
N138
A144
D145
H146
Q147
L152
L156
E157
E158
A159
T160
F162
L163
T167
F170
D171
P172
F175
L182
F188
F189
D190
L191
R198
S199
L202
V226
L227
G228
T232
V233
R234
V237
H238
I239
I243
I247
V248
L249
H250
V251
V252
S253
H260
H263
K267
Y272
E275
F279
E280
R284
H288
R289
R301
S318
G319
L324
P325
I326
V334
D337
D371
R378
V379
S380
N381
N384
M389
I390
A391
C392
H393
G398
L404
F412
K423
A440
L441
Q442
E449
N454
F455
A456
L475
V486



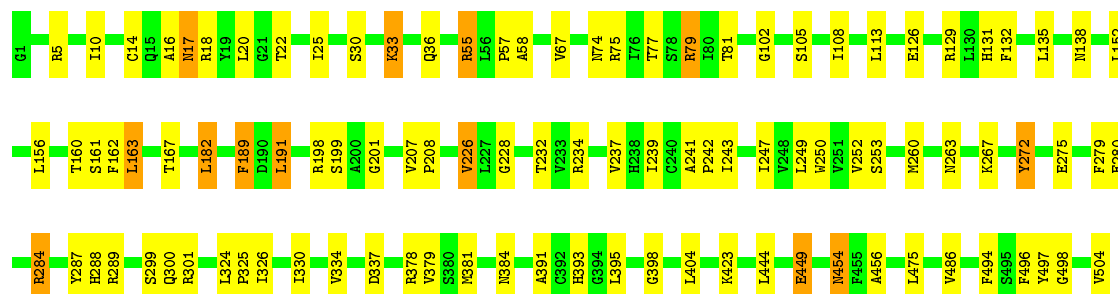
• Molecule 1: COAT PROTEIN

Chain CL: 82% 16%



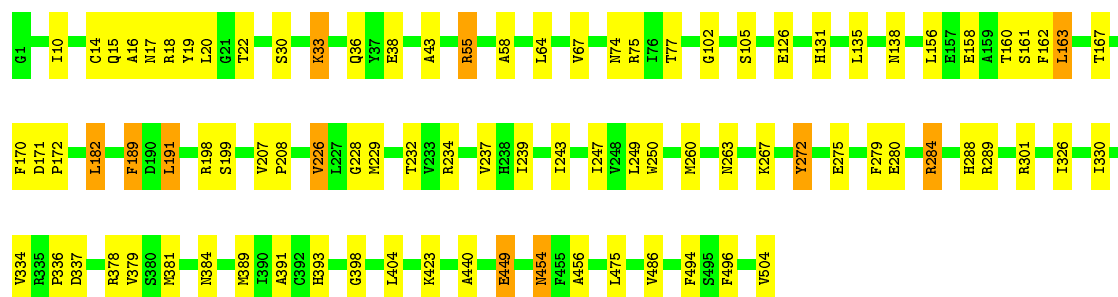
• Molecule 1: COAT PROTEIN

Chain CM: 80% 17%



• Molecule 1: COAT PROTEIN

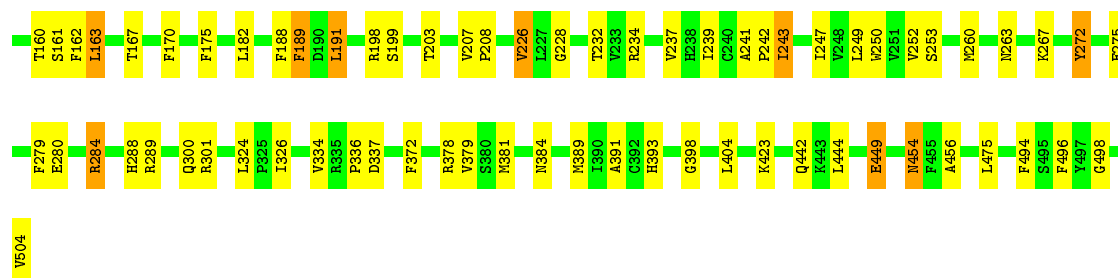
Chain CN: 82% 16%



• Molecule 1: COAT PROTEIN

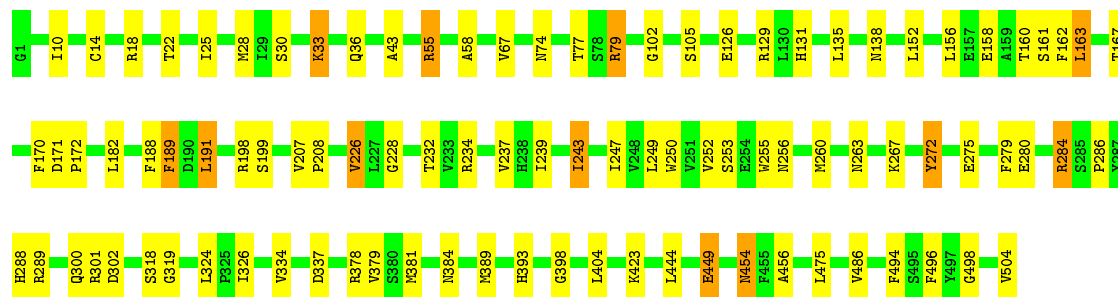
Chain CO: 80% 18%





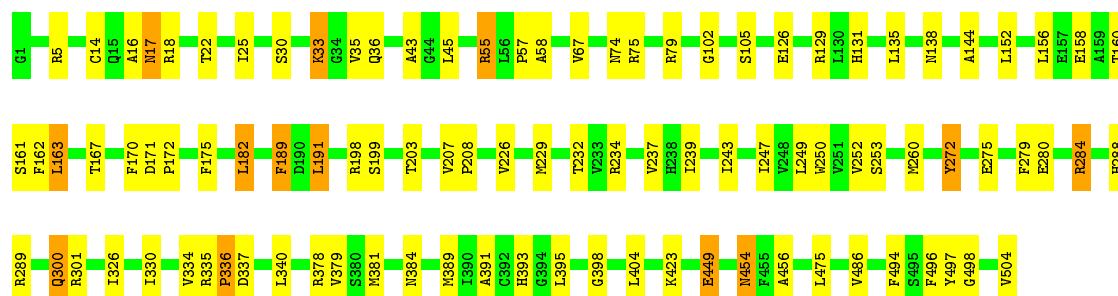
• Molecule 1: COAT PROTEIN

Chain CP: 81% 16%



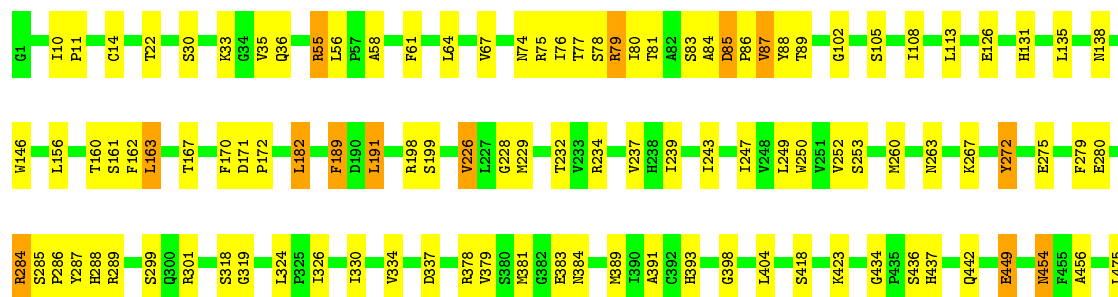
• Molecule 1: COAT PROTEIN

Chain CQ: 81% 17%



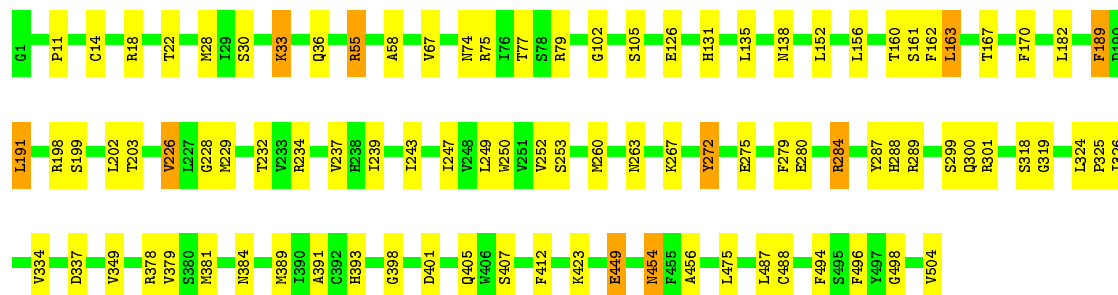
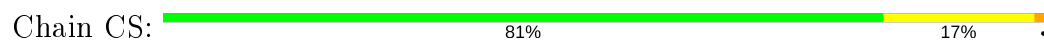
• Molecule 1: COAT PROTEIN

Chain CR: 78% 20%

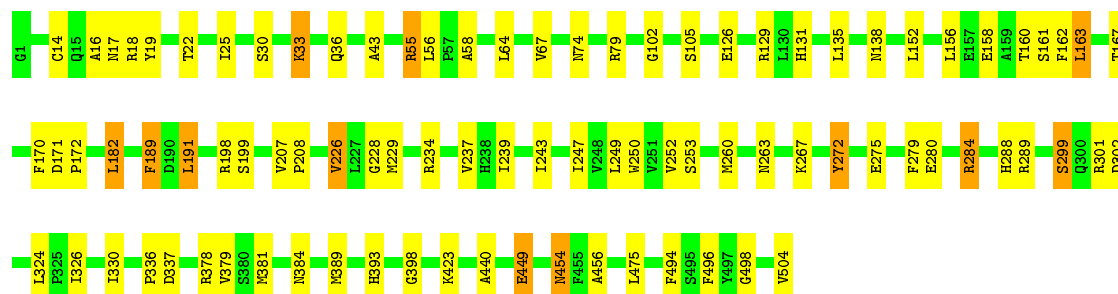
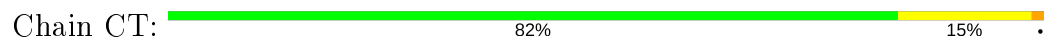




• Molecule 1: COAT PROTEIN



• Molecule 1: COAT PROTEIN



4 Data and refinement statistics

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	283.60 Å 295.50 Å 394.30 Å 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
$\langle I/\sigma(I) \rangle$ ¹	1.88 (at 3.67 Å)	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	$\langle L \rangle = 0.38$, $\langle L^2 \rangle = 0.21$	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 $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	AA	0.50	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(°)	Ideal(°)
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(°)	Ideal(°)
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 ⓘ

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:HG3	1:CF:79:ARG:HH11	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:O	1:AO:290:THR:HG23	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:H	1:AJ:191:LEU:HD23	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:HH11	1:CD:79:ARG:HG3	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:AS:250:TRP:CZ3	1:AS:272:TYR:HE1	1.87	0.92
1:AN:55:ARG:NE	1:AS:272:TYR:HE2	1.66	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:HD23	1:AC:191:LEU:H	1.36	0.90
1:AG:79:ARG:HG3	1:AG:79:ARG:HH11	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:H	1:AL:191:LEU:HD23	1.37	0.89
1:AB:265:LEU:HD12	1:AB:265:LEU:O	1.73	0.89
1:CC:191:LEU:H	1:CC:191:LEU:HD23	1.38	0.89
1:BP:250:TRP:CZ3	1:BP:272:TYR:CE1	2.60	0.89
1:CP:191:LEU:H	1:CP:191:LEU:HD23	1.38	0.89
1:BP:191:LEU:HD23	1:BP:191:LEU:H	1.37	0.88
1:AP:191:LEU:H	1:AP:191:LEU:HD23	1.36	0.88
1:CI:191:LEU:HD23	1:CI:191:LEU:H	1.37	0.88
1:BJ:272:TYR:CE2	1:BQ:55:ARG:NE	2.41	0.88
1:BO:191:LEU:H	1:BO:191:LEU:HD23	1.38	0.88
1:AQ:191:LEU:HD23	1:AQ:191:LEU:H	1.39	0.88
1:AO:191:LEU:H	1:AO:191:LEU:HD23	1.37	0.88
1:AE:55:ARG:NE	1:CP:272:TYR:CE2	2.42	0.88
1:AG:191:LEU:H	1:AG:191:LEU:HD23	1.38	0.88
1:AO:292:ALA:O	1:AO:293:ARG:HG2	1.73	0.88
1:CQ:191:LEU:H	1:CQ:191:LEU:HD23	1.37	0.88
1:BB:191:LEU:H	1:BB:191:LEU:HD23	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:H	1:AK:191:LEU:HD23	1.38	0.87
1:AE:191:LEU:HD23	1:AE:191:LEU:H	1.39	0.87
1:CD:191:LEU:H	1:CD:191:LEU:HD23	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:H	1:BF:191:LEU:HD23	1.40	0.86
1:BJ:189:PHE:HE1	1:BJ:198:ARG:HG3	1.40	0.86
1:BQ:191:LEU:H	1:BQ:191:LEU:HD23	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:H	1:AM:191:LEU:HD23	1.38	0.86
1:AO:250:TRP:CZ3	1:AO:272:TYR:CE1	2.63	0.86
1:CE:191:LEU:H	1:CE:191:LEU:HD23	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:H	1:CG:191:LEU:HD23	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:H	1:CR:191:LEU:HD23	1.41	0.86
1:BH:191:LEU:H	1:BH:191:LEU:HD23	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:H	1:BG:191:LEU:HD23	1.39	0.86
1:CM:191:LEU:H	1:CM:191:LEU:HD23	1.39	0.86
1:AF:79:ARG:HH11	1:AF:79:ARG:HG3	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:C	1:AG:265:LEU:HD12	1.80	0.86
1:CN:191:LEU:H	1:CN:191:LEU:HD23	1.40	0.86
1:BS:191:LEU:H	1:BS:191:LEU:HD23	1.40	0.85
1:BT:55:ARG:NE	1:CA:272:TYR:CE2	2.44	0.85
1:BP:272:TYR:CE2	1:CE:55:ARG:CD	2.58	0.85
1:AL:272:TYR:CD2	1:CJ:55:ARG:HD3	2.10	0.85
1:AL:79:ARG:HG3	1:AL:79:ARG:HH11	1.39	0.85
1:CL:191:LEU:H	1:CL:191:LEU:HD23	1.39	0.85
1:CH:191:LEU:H	1:CH:191:LEU:HD23	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:NH1	1:CR:79:ARG:CG	2.30	0.85
1:AT:250:TRP:CZ3	1:AT:272:TYR:CE1	2.65	0.85
1:CG:189:PHE:HE1	1:CG:198:ARG:CG	1.90	0.85
1:CD:272:TYR:CE2	1:CS:55:ARG:NE	2.44	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:H	1:BC:191:LEU:HD23	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:HG3	1:CR:79:ARG:HH11	1.42	0.84
1:CR:79:ARG:NH1	1:CR:79:ARG:HG2	1.86	0.84
1:AH:191:LEU:H	1:AH:191:LEU:HD23	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:H	1:AS:191:LEU:HD23	1.42	0.84
1:CS:191:LEU:HD23	1:CS:191:LEU:H	1.42	0.84
1:AF:191:LEU:H	1:AF:191:LEU:HD23	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:191:LEU:HD23	1:AN:191:LEU:H	1.42	0.83
1:AN:189:PHE:HE1	1:AN:198:ARG:CG	1.91	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:H	1:AT:191:LEU:HD23	1.42	0.83
1:CJ:191:LEU:H	1:CJ:191:LEU:HD23	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:H	1:BA:191:LEU:HD23	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:O	1:AG:269:PRO:HG2	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:H	1:CT:191:LEU:HD23	1.41	0.82
1:AR:189:PHE:HE1	1:AR:198:ARG:CG	1.91	0.82
1:BP:79:ARG:HH11	1:BP:79:ARG:CG	1.90	0.82
1:CN:250:TRP:CZ3	1:CN:272:TYR:CE1	2.67	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:AP:272:TYR:CD2	1:BE:55:ARG:HD3	2.14	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:BH:189:PHE:HE1	1:BH:198:ARG:CG	1.92	0.82
1:BB:55:ARG:NE	1:CB:272:TYR:CE2	2.48	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:HE21	1:BO:15:GLN:HA	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:CG	1:CF:79:ARG:HH11	1.91	0.81
1:AC:55:ARG:NE	1:AT:272:TYR:CE2	2.49	0.81
1:CH:79:ARG:HH11	1:CH:79:ARG:HG3	1.45	0.81
1:CQ:454:ASN:HD22	1:CQ:456:ALA:H	1.27	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: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: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: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:AH:272:TYR:CE2	1:CF:55:ARG:NE	2.48	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:CB:250:TRP:CZ3	1:CB:272:TYR:CE1	2.70	0.80
1:BG:272:TYR:CE2	1:CG:55:ARG:NE	2.49	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:CL:454:ASN:HD22	1:CL:456:ALA:H	1.29	0.80
1:CC:55:ARG:NE	1:CT:272:TYR:CE2	2.50	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:CD1	1:AG:265:LEU:O	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:CN:454:ASN:HD22	1:CN:456:ALA:H	1.30	0.79
1:CO:272:TYR:CE2	1:CR:55:ARG:CD	2.66	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CJ:272:TYR:HE2	1:CQ:55:ARG:CD	1.95	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:HH11	1:CO:79:ARG:HG3	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:HG3	1:BF:79:ARG:HH11	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:HG23	1:AB:259:THR:O	1.85	0.76
1:AG:55:ARG:HD3	1:CG:272:TYR:CD2	2.21	0.76
1:AO:289:ARG:NH1	1:AO:337:ASP:O	2.19	0.76
1:AN:55:ARG:CD	1:AS:272:TYR:CE2	2.69	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:HG3	1:BT:79:ARG:HH11	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:CC:454:ASN:HD22	1:CC:456:ALA:H	1.34	0.75
1:BP:272:TYR:CD2	1:CE:55:ARG:HD3	2.22	0.75
1:BL:189:PHE:HE1	1:BL:198:ARG:HG3	1.51	0.75
1:AJ:55:ARG:NE	1:BL:272:TYR:CE2	2.55	0.75
1:AI:55:ARG:CD	1:AR:272:TYR:CE2	2.69	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:272:TYR:CE2	1:CO:55:ARG:NE	2.55	0.75
1:CI:74:ASN:HB3	1:CI:126:GLU:HG2	1.67	0.75
1:AJ:250:TRP:CZ3	1:AJ:272:TYR:CE1	2.75	0.75
1:AE:272:TYR:CE2	1:AM:55:ARG:NE	2.55	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:O	1:BA:33:LYS:HG2	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:HG2	1:BB:33:LYS:O	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: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:AC:55:ARG:CD	1:AT:272:TYR:HE2	2.01	0.74
1:BQ:284:ARG:HG2	1:BQ:284:ARG:HH11	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:HH11	1:CG:79:ARG:HG3	1.52	0.74
1:CL:33:LYS:O	1:CL:33:LYS:HG2	1.88	0.74
1:BK:189:PHE:HE1	1:BK:198:ARG:HG3	1.52	0.74
1:BK:33:LYS:O	1:BK:33:LYS:HG2	1.88	0.74
1:BR:189:PHE:HE1	1:BR:198:ARG:CG	2.00	0.74
1:AG:55:ARG:CD	1:CG:272:TYR:HE2	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:HG2	1:BE:33:LYS:O	1.88	0.73
1:CC:55:ARG:CD	1:CT:272:TYR:CE2	2.72	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:O	1:BG:33:LYS:HG2	1.88	0.73
1:BJ:189:PHE:CE1	1:BJ:198:ARG:HG3	2.24	0.73
1:AA:55:ARG:NE	1:CC:272:TYR:HE2	1.86	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:O	1:BD:33:LYS:HG2	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:AO:206:GLN:HE22	1:AO:294:LEU:HB2	1.53	0.73
1:AI:272:TYR:CD2	1:AO:55:ARG:CZ	2.72	0.73
1:BD:55:ARG:CD	1:BN:272:TYR:CE2	2.72	0.73
1:AJ:55:ARG:CD	1:BL: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:HG3	1:CP:79:ARG:HH11	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:O	1:BO:33:LYS:HG2	1.87	0.73
1:CC:33:LYS:O	1:CC:33:LYS:HG2	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:HH11	1:BB:284:ARG:CG	2.02	0.72
1:BD:250:TRP:CZ3	1:BD:272:TYR:HE1	2.06	0.72
1:BJ:191:LEU:CD2	1:BJ:191:LEU:H	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:189:PHE:HE1	1:AD:198:ARG:HG3	1.54	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:CD:284:ARG:HH11	1:CD:284:ARG:HG2	1.55	0.72
1:CI:55:ARG:CD	1:CR:272:TYR:CE2	2.72	0.72
1:CM:250:TRP:CZ3	1:CM:272:TYR:HE1	2.06	0.72
1:CJ:272:TYR:CE2	1:CQ:55:ARG:CD	2.72	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:HG2	1:CP:33:LYS:O	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:HG2	1:AJ:33:LYS:O	1.90	0.72
1:BB:191:LEU:H	1:BB:191:LEU:CD2	2.03	0.72
1:BQ:33:LYS:HG2	1:BQ:33:LYS:O	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:HG2	1:BI:33:LYS:O	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:HG2	1:BH:33:LYS:O	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:HH11	1:AC:284:ARG:CG	2.02	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:AK:55:ARG:HD3	1:CF:272:TYR:CD2	2.25	0.71
1:AB:454:ASN:HD22	1:AB:456:ALA:H	1.38	0.71
1:AQ:33:LYS:HG2	1:AQ:33:LYS:O	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:284:ARG:HH11	1:BO:284:ARG:CG	2.02	0.71
1:BO:74:ASN:HB3	1:BO:126:GLU:HG2	1.73	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: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:CC:55:ARG:CD	1:CT:272:TYR:HE2	2.02	0.71
1:AB:284:ARG:HH11	1:AB:284:ARG:HG2	1.55	0.71
1:AL:22:THR:OG1	1:AL:131:HIS:HD2	1.72	0.71
1:AR:33:LYS:HG2	1:AR:33:LYS:O	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:250:TRP:CZ3	1:CN:272:TYR:HE1	2.08	0.71
1:CN:74:ASN:HB3	1:CN:126:GLU:HG2	1.73	0.71
1:CO:33:LYS:HG2	1:CO:33:LYS:O	1.90	0.71
1:AB:74:ASN:HB3	1:AB:126:GLU:HG2	1.72	0.71
1:AB:79:ARG:HG3	1:AB:79:ARG:HH11	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:HG2	1:CA:33:LYS:O	1.90	0.71
1:CC:284:ARG:CG	1:CC:284:ARG:HH11	2.04	0.71
1:CD:55:ARG:CD	1:CN:272:TYR:CE2	2.74	0.71
1:CE:33:LYS:HG2	1:CE:33:LYS:O	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:O	1:AM:33:LYS:HG2	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BD:191:LEU:CD2	1:BD:191:LEU:H	2.04	0.71
1:BS:22:THR:OG1	1:BS:131:HIS:HD2	1.74	0.71
1:CJ:14:CYS:H	1:CJ:138:ASN:HD21	1.38	0.71
1:CE:272:TYR:CE2	1:CM:55:ARG:CZ	2.73	0.71
1:CR:33:LYS:HG2	1:CR:33:LYS:O	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:HG2	1:BC:33:LYS:O	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:CD2	1:CQ:191:LEU:H	2.04	0.71
1:AB:191:LEU:CD2	1:AB:191:LEU:H	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:HG2	1:CS:33:LYS:O	1.91	0.70
1:AN:33:LYS:O	1:AN:33:LYS:HG2	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:HG2	1:BS:33:LYS:O	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:CG	1:AG:284:ARG:HH11	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:HG2	1:CH:33:LYS:O	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: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
1:BF:272:TYR:CE2	1:CK:55:ARG:CD	2.75	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:HG2	1:AI:33:LYS:O	1.92	0.70
1:AN:189:PHE:HE2	1:AN:249:LEU:HD21	1.56	0.70
1:BK:36:GLN:NE2	1:BK:156:LEU:H	1.89	0.70
1:BE:272:TYR:CE2	1:BM:55:ARG:NE	2.59	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:O	1:AB:33:LYS:HG2	1.90	0.70
1:AF:189:PHE:HE2	1:AF:249:LEU:HD21	1.56	0.70
1:AG:284:ARG:HG2	1:AG:284:ARG:HH11	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:CG	1:BF:284:ARG:HH11	2.04	0.70
1:BJ:272:TYR:CE2	1:BQ:55:ARG:CD	2.74	0.70
1:BP:191:LEU:CD2	1:BP:191:LEU:H	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:HE21	1:AH:15:GLN:HA	1.57	0.70
1:AL:284:ARG:CG	1:AL:284:ARG:HH11	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:HG2	1:BF:284:ARG:HH11	1.57	0.70
1:BO:191:LEU:CD2	1:BO:191:LEU:H	2.05	0.70
1:CA:284:ARG:HG2	1:CA:284:ARG:HH11	1.57	0.70
1:CN:284:ARG:HH11	1:CN:284:ARG:HG2	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:CI:38:GLU:HB2	1:CQ:35:VAL:HG22	1.74	0.70
1:AD:55:ARG:CD	1:AN:272:TYR:CE2	2.75	0.70
1:AG:261:ASP:OD1	1:AG:261:ASP:C	2.30	0.70
1:AK:74:ASN:HB3	1:AK:126:GLU:HG2	1.72	0.70
1:BH:284:ARG:HH11	1:BH:284:ARG:CG	2.04	0.70
1:BJ:22:THR:OG1	1:BJ:131:HIS:HD2	1.75	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:AM:272:TYR:CE2	1:CP:55:ARG:NE	2.60	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:CG	1:BD:284:ARG:HH11	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:HG2	1:AG:33:LYS:O	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:CG	1:AH:284:ARG:HH11	2.05	0.69
1:AJ:79:ARG:HG3	1:AJ:79:ARG:HH11	1.56	0.69
1:AO:284:ARG:HH11	1:AO:284:ARG:CG	2.05	0.69
1:BI:284:ARG:CG	1:BI:284:ARG:HH11	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:CG	1:AB:284:ARG:HH11	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:284:ARG:HH11	1:CI:284:ARG:HG2	1.57	0.69
1:CI:33:LYS:O	1:CI:33:LYS:HG2	1.90	0.69
1:CI:55:ARG:HD3	1:CR:272:TYR:CD2	2.26	0.69
1:AD:284:ARG:CG	1:AD:284:ARG:HH11	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:CD2	1:BI:191:LEU:H	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:O	1:AK:33:LYS:HG2	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:CJ:74:ASN:HB3	1:CJ:126:GLU:HG2	1.74	0.69
1:BP:55:ARG:NE	1:CM:272:TYR:CE2	2.61	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:CD2	1:AA:191:LEU:H	2.05	0.69
1:AJ:191:LEU:H	1:AJ:191:LEU:CD2	2.04	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:CB:191:LEU:CD2	1:CB:191:LEU:H	2.06	0.69
1:CI:191:LEU:CD2	1:CI:191:LEU:H	2.05	0.69
1:CI:55:ARG:HD3	1:CR:272:TYR:CE2	2.27	0.69
1:CM:191:LEU:CD2	1:CM:191:LEU:H	2.06	0.69
1:CM:284:ARG:HH11	1:CM:284:ARG:CG	2.06	0.69
1:AB:261:ASP:OD1	1:AB:261:ASP:C	2.28	0.69
1:AK:442:GLN:HE21	1:AL:412:PHE:HB2	1.58	0.69
1:AT:79:ARG:HH11	1:AT:79:ARG:HG3	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: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:HH11	1:AA:284:ARG:HG2	1.58	0.69
1:AD:284:ARG:HG2	1:AD:284:ARG:HH11	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:CD2	1:AK:191:LEU:H	2.05	0.69
1:AM:191:LEU:CD2	1:AM:191:LEU:H	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:191:LEU:CD2	1:CA:191:LEU:H	2.06	0.69
1:CA:79:ARG:HH11	1:CA:79:ARG:HG3	1.58	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:HE21	1:CH:15:GLN:HA	1.57	0.69
1:CJ:189:PHE:HE2	1:CJ:249:LEU:HD21	1.58	0.69
1:AD:272:TYR:CE2	1:AS:55:ARG:CD	2.76	0.69
1:AD:33:LYS:HG2	1:AD:33:LYS:O	1.93	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:272:TYR:CE2	1:CJ:55:ARG:CZ	2.75	0.68
1:AL:79:ARG:HH11	1:AL:79:ARG:CG	2.06	0.68
1:BC:272:TYR:CD2	1:CA:55:ARG:HD3	2.27	0.68
1:BN:33:LYS:HG2	1:BN:33:LYS:O	1.93	0.68
1:BJ:272:TYR:HE2	1:BQ:55:ARG:CD	2.05	0.68
1:CB:189:PHE:CE1	1:CB:198:ARG:HG3	2.28	0.68
1:CK:284:ARG:CG	1:CK:284:ARG:HH11	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:CG	1:BC:284:ARG:HH11	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:CG	1:CI:284:ARG:HH11	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:HH11	1:BK:284:ARG:HG2	1.57	0.68
1:CK:191:LEU:CD2	1:CK:191:LEU:H	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:AK:284:ARG:CG	1:AK:284:ARG:HH11	2.06	0.68
1:AP:191:LEU:H	1:AP:191:LEU:CD2	2.05	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:AJ:55:ARG:HD3	1:BL:272:TYR:CD2	2.28	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: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:CG	1:CN:284:ARG:HH11	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:HG2	1:AO:33:LYS:O	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:CD2	1:AI:191:LEU:H	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:CD	1:CB:272:TYR:HE2	2.07	0.68
1:BB:55:ARG:NE	1:CB:272:TYR:HE2	1.92	0.68
1:BK:22:THR:OG1	1:BK:131:HIS:HD2	1.76	0.68
1:BT:284:ARG:CG	1:BT:284:ARG:HH11	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:HG2	1:AL:33:LYS:O	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:CG	1:BN:284:ARG:HH11	2.06	0.68
1:BR:284:ARG:HH11	1:BR:284:ARG:HG2	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:O	1:CF:33:LYS:HG2	1.94	0.68
1:CH:74:ASN:HB3	1:CH:126:GLU:HG2	1.74	0.68
1:CK:284:ARG:HG2	1:CK:284:ARG:HH11	1.59	0.68
1:AC:284:ARG:HG2	1:AC:284:ARG:HH11	1.59	0.68
1:AC:74:ASN:HB3	1:AC:126:GLU:HG2	1.75	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:HH11	1:CO:284:ARG:HG2	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:HH11	1:AT:284:ARG:HG2	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:HG2	1:BG:284:ARG:HH11	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: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
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:CG	1:BG:284:ARG:HH11	2.06	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BH:191:LEU:H	1:BH:191:LEU:CD2	2.07	0.67
1:BJ:33:LYS:O	1:BJ:33:LYS:HG2	1.94	0.67
1:AF:272:TYR:HE2	1:BK:55:ARG:CD	2.07	0.67
1:AJ:55:ARG:CD	1:BL:272:TYR:HE2	2.07	0.67
1:BQ:191:LEU:H	1:BQ:191:LEU:CD2	2.07	0.67
1:AH:272:TYR:CD2	1:CF:55:ARG:HD3	2.28	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:CG	1:CO:284:ARG:HH11	2.07	0.67
1:CQ:33:LYS:O	1:CQ:33:LYS:HG2	1.93	0.67
1:BJ:55:ARG:NE	1:CL:272:TYR:CE2	2.62	0.67
1:BL:284:ARG:CG	1:BL:284:ARG:HH11	2.07	0.67
1:BM:33:LYS:O	1:BM:33:LYS:HG2	1.93	0.67
1:BD:55:ARG:HD3	1:BN:272:TYR:CE2	2.28	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:CE:79:ARG:HH11	1:CE:79:ARG:HG3	1.60	0.67
1:CD:55:ARG:CD	1:CN:272:TYR:HE2	2.08	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:CD2	1:BE:191:LEU:H	2.06	0.67
1:BE:284:ARG:HH11	1:BE:284:ARG:CG	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:CD2	1:BC:191:LEU:H	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:HH11	1:CG:284:ARG:CG	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:CG	1:BK:284:ARG:HH11	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:HG2	1:AI:284:ARG:HH11	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:NH1	1:BQ:284:ARG:HG2	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:284:ARG:HH11	1:AT:284:ARG:CG	2.08	0.67
1:AT:55:ARG:CD	1:BA:272:TYR:HE2	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:CD2	1:AE:191:LEU:H	2.08	0.66
1:AE:284:ARG:CG	1:AE:284:ARG:HH11	2.08	0.66
1:AH:55:ARG:CZ	1:AK:272:TYR:CD2	2.79	0.66
1:BF:272:TYR:HE2	1:CK:55:ARG:CD	2.08	0.66
1:BF:55:ARG:HD3	1:CH:272:TYR:CD2	2.31	0.66
1:CH:284:ARG:CG	1:CH:284:ARG:HH11	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:C	1:CR:85:ASP:OD1	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:CG	1:BR:284:ARG:HH11	2.07	0.66
1:BT:55:ARG:HD3	1:CA:272:TYR:CE2	2.30	0.66
1:CB:284:ARG:CG	1:CB:284:ARG:HH11	2.08	0.66
1:CG:74:ASN:HB3	1:CG:126:GLU:HG2	1.78	0.66
1:AC:191:LEU:CD2	1:AC:191:LEU:H	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:BL:191:LEU:CD2	1:BL:191:LEU:H	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:AL:55:ARG:NE	1:CQ:272:TYR:CE2	2.64	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:AH:36:GLN:NE2	1:AH:156:LEU:H	1.94	0.66
1:AE:272:TYR:CD2	1:AM:55:ARG:HD3	2.30	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:BI:55:ARG:HD3	1:BR:272:TYR:CD2	2.31	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:378:ARG:HG3	1:CI:379:VAL:H	1.61	0.66
1:CI:74:ASN:CB	1:CI:126:GLU:HG2	2.26	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:191:LEU:CD2	1:CO:191:LEU:H	2.07	0.66
1:CO:74:ASN:HB3	1:CO:126:GLU:HG2	1.76	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:189:PHE:CE1	1:BS:198:ARG:HG3	2.31	0.66
1:BS:79:ARG:HH11	1:BS:79:ARG:CG	2.04	0.66
1:CA:250:TRP:CZ3	1:CA:272:TYR:HE1	2.14	0.66
1:CB:284:ARG:HG2	1:CB:284:ARG:HH11	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:CD2	1:CC:191:LEU:H	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:HH11	1:CL:79:ARG:HG3	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:HG2	1:AL:284:ARG:HH11	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: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:BQ:272:TYR:HE2	1:CL:55:ARG:CD	2.09	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:HG2	1:CG:284:ARG:HH11	1.62	0.65
1:CS:284:ARG:CG	1:CS:284:ARG:HH11	2.09	0.65
1:AD:22:THR:OG1	1:AD:131:HIS:HD2	1.79	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:AF:55:ARG:CD	1:BH:272:TYR:HE2	2.10	0.65
1:BH:284:ARG:HG2	1:BH:284:ARG:HH11	1.61	0.65
1:CN:16:ALA:O	1:CN:17:ASN:HB2	1.97	0.65
1:AB:256:ASN:ND2	1:AB:256:ASN:O	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:189:PHE:HE2	1:BF:249:LEU:HD21	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CD:284:ARG:NH1	1:CD:284:ARG:HG2	2.12	0.65
1:CF:288:HIS:HD2	1:CF:337:ASP:OD2	1.79	0.65
1:BF:55:ARG:CD	1:CH:272:TYR:CE2	2.80	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:CD2	1:AN:191:LEU:H	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:189:PHE:CE1	1:CH:198:ARG:HG3	2.30	0.65
1:CH:55:ARG:NE	1:CK:272:TYR:CE2	2.65	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:CG	1:AJ:284:ARG:HH11	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:CF:284:ARG:CG	1:CF:284:ARG:HH11	2.10	0.64
1:CF:79:ARG:HG3	1:CF:79:ARG:NH1	2.00	0.64
1:BG:272:TYR:HE2	1:CG:55:ARG:CD	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:272:TYR:CD2	1:CK:55:ARG:HD3	2.32	0.64
1:BF:250:TRP:CZ3	1:BF:272:TYR:HE1	2.14	0.64
1:BF:74:ASN:HB3	1:BF:126:GLU:HG2	1.80	0.64
1:BP:74:ASN:HB3	1:BP:126:GLU:HG2	1.80	0.64
1:BI:55:ARG:HD3	1:BR:272:TYR:CE2	2.33	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:AM:189:PHE:CE1	1:AM:198:ARG:CG	2.80	0.64
1:AI:55:ARG:CD	1:AR:272:TYR:HE2	2.11	0.64
1:BL:16:ALA:O	1:BL:17:ASN:HB2	1.98	0.64
1:BL:284:ARG:HG2	1:BL:284:ARG:HH11	1.63	0.64
1:BM:74:ASN:HB3	1:BM:126:GLU:HG2	1.80	0.64
1:BB:55:ARG:CZ	1:CB:272:TYR:CE2	2.81	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:CR:85:ASP:OD1	1:CR:86:PRO:N	2.31	0.64
1:CN:55:ARG:CD	1:CS:272:TYR:CE2	2.80	0.64
1:AF:55:ARG:HD3	1:BH:272:TYR:CD2	2.33	0.64
1:AG:269:PRO:CG	1:AG:269:PRO:O	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: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:AJ:55:ARG:HD3	1:BL:272:TYR:CE2	2.32	0.64
1:CE:189:PHE:CE1	1:CE:198:ARG:CG	2.81	0.64
1:CQ:284:ARG:HG2	1:CQ:284:ARG:HH11	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: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:BP:272:TYR:CE2	1:CE:55:ARG:CZ	2.81	0.63
1:CF:284:ARG:HG2	1:CF:284:ARG:HH11	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:272:TYR:CE2	1:CP:55:ARG:CD	2.81	0.63
1:AM:36:GLN:NE2	1:AM:156:LEU:H	1.96	0.63
1:BB:14:CYS:H	1:BB:138:ASN:HD21	1.45	0.63
1:BG:79:ARG:HG3	1:BG:79:ARG:HH11	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:CG	1:BP:284:ARG:HH11	2.12	0.63
1:BS:191:LEU:H	1:BS:191:LEU:CD2	2.08	0.63
1:BT:284:ARG:HG2	1:BT:284:ARG:HH11	1.63	0.63
1:CT:284:ARG:HG2	1:CT:284:ARG:NH1	2.13	0.63
1:AC:272:TYR:CE2	1:BA:55:ARG:NE	2.66	0.63
1:AH:284:ARG:HG2	1:AH:284:ARG:HH11	1.63	0.63
1:AD:55:ARG:HD3	1:AN:272:TYR:CD2	2.34	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:AA:55:ARG:CD	1:CC:272:TYR:HE2	2.11	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:HH11	1:BE:79:ARG:HG3	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: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:AG:272:TYR:CE2	1:BG:55:ARG:CD	2.81	0.63
1:BO:284:ARG:NH1	1:BO:284:ARG:HG2	2.12	0.63
1:CN:189:PHE:HE2	1:CN:249:LEU:CD2	2.12	0.63
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:AG:263:ASN:ND2	1:BG:32:PHE:CD1	2.67	0.62
1:BN:189:PHE:CE1	1:BN:198:ARG:CG	2.79	0.62
1:BI:272:TYR:CE2	1:BO:55:ARG:HD3	2.34	0.62
1:CE:36:GLN:NE2	1:CE:156:LEU:H	1.97	0.62
1:CD:272:TYR:HE2	1:CS:55:ARG:NE	1.91	0.62
1:CT:189:PHE:CE1	1:CT:198:ARG:HG3	2.33	0.62
1:AG:274:GLU:N	1:AG:274:GLU:OE1	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:HG2	1:BD:284:ARG:HH11	1.64	0.62
1:BG:15:GLN:HA	1:BG:15:GLN:HE21	1.64	0.62
1:BI:239:ILE:HG12	1:BI:326:ILE:CD1	2.30	0.62
1:BI:74:ASN:HB3	1:BI:126:GLU:HG2	1.79	0.62
1:BS:284:ARG:HG2	1:BS:284:ARG:HH11	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:NH1	1:AO:284:ARG:HG2	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:AL:250:TRP:CZ3	1:AL:272:TYR:HE1	2.14	0.62
1:AI:272:TYR:CD2	1:AO:55:ARG:NE	2.67	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CP:74:ASN:CB	1:CP:126:GLU:HG2	2.30	0.62
1:CO:272:TYR:CD2	1:CR:55:ARG:HD3	2.34	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: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:BG:272:TYR:CE2	1:CG:55:ARG:CD	2.83	0.62
1:CR:284:ARG:HH11	1:CR:284:ARG:CG	2.12	0.62
1:AD:284:ARG:HG2	1:AD:284:ARG:NH1	2.14	0.62
1:AD:55:ARG:HD3	1:AN:272:TYR:CE2	2.35	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: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:BJ:55:ARG:CD	1:CL:272:TYR:CE2	2.82	0.62
1:CL:284:ARG:NH1	1:CL:284:ARG:HG2	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: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:CD2	1:CE:191:LEU:H	2.09	0.62
1:AL:272:TYR:HD2	1:CJ:55:ARG:HD3	1.62	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: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:AB:272:TYR:CE2	1:CB:55:ARG:NE	2.67	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: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:AM:272:TYR:HE2	1:CP:55:ARG:CD	2.12	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:NH1	1:CI:284:ARG:HG2	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:CR:80:ILE:O	1:CR:83:SER:C	2.38	0.61
1:CN:55:ARG:HD3	1:CS:272:TYR:CE2	2.35	0.61
1:AB:265:LEU:HD12	1:AB:266:PHE:N	2.12	0.61
1:AB:58:ALA:HB2	1:AB:102:GLY:HA3	1.83	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:HG2	1:CS:284:ARG:HH11	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:CI:376:THR:O	1:CI:376:THR:CG2	2.48	0.61
1:BJ:55:ARG:HD3	1:CL:272:TYR:CD2	2.35	0.61
1:CR:284:ARG:HH11	1:CR:284:ARG:HG2	1.64	0.61
1:AR:79:ARG:HG3	1:AR:79:ARG:HH11	1.64	0.61
1:AS:284:ARG:NH1	1:AS:284:ARG:HG2	2.15	0.61
1:BN:191:LEU:CD2	1:BN:191:LEU:H	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:NH1	1:AG:79:ARG:HG3	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:NH1	1:CN:284:ARG:HG2	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: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:AL:55:ARG:CD	1:CQ:272:TYR:CE2	2.83	0.61
1:CR:77:THR:O	1:CR:80:ILE:HG12	1.99	0.61
1:AE:284:ARG:HG2	1:AE:284:ARG:HH11	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
1:AJ:203:THR:HB	1:AJ:300:GLN:HG3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:189:PHE:CE1	1:AN:198:ARG:CG	2.79	0.61
1:AR:284:ARG:NH1	1:AR:284:ARG:HG2	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:NH1	1:CM:284:ARG:HG2	2.15	0.61
1:AE:55:ARG:CZ	1:CP:272:TYR:CD2	2.84	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: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:AA:55:ARG:CD	1:CC:272:TYR:CE2	2.85	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:CD2	1:AS:191:LEU:H	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:NH1	1:AB:284:ARG:HG2	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:189:PHE:HE2	1:CR:249:LEU:CD2	2.15	0.60
1:CR:86:PRO:HG2	1:CR:87:VAL:N	2.17	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:NH1	1:CA:284:ARG:HG2	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:BH:15:GLN:NE2	1:BH:15:GLN:HA	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:BF:272:TYR:CE2	1:CK:55:ARG:HD3	2.36	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:AH:284:ARG:HG2	1:AH:284:ARG:NH1	2.17	0.59
1:AP:284:ARG:NH1	1:AP:284:ARG:HG2	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:189:PHE:HE2	1:BA:249:LEU:HD21	1.67	0.59
1:BC:284:ARG:NH1	1:BC:284:ARG:HG2	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:CM:454:ASN:HD22	1:CM:456:ALA:N	1.99	0.59
1:AE:55:ARG:CZ	1:CP:272:TYR:CE2	2.85	0.59
1:CR:189:PHE:CE1	1:CR:198:ARG:CG	2.78	0.59
1:CI:144:ALA:HB3	1:CR:191:LEU:O	2.02	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:250:TRP:CE3	1:BT:272:TYR:CE1	2.90	0.59
1:BT:55:ARG:CZ	1:CA:272:TYR:CE2	2.85	0.59
1:CT:74:ASN:CB	1:CT:126:GLU:HG2	2.31	0.59
1:AG:250:TRP:CZ3	1:AG:272:TYR:CE1	2.89	0.59
1:AG:79:ARG:CG	1:AG:79:ARG:HH11	2.13	0.59
1:AS:74:ASN:CB	1:AS:126:GLU:HG2	2.31	0.59
1:BR:189:PHE:CE1	1:BR:198:ARG:CG	2.84	0.59
1:BN:55:ARG:HD3	1:BS:272:TYR:CE2	2.37	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:NH1	1:AA:284:ARG:HG2	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: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:BG:272:TYR:CE2	1:CG:55:ARG:CZ	2.86	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:C	1:AB:256:ASN:ND2	2.54	0.59
1:AG:272:TYR:C	1:AG:273:VAL:CG2	2.71	0.59
1:BI:284:ARG:NH1	1:BI:284:ARG:HG2	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:HG2	1:CJ:284:ARG:HH11	1.66	0.59
1:CP:79:ARG:CG	1:CP:79:ARG:HH11	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:NH1	1:CH:79:ARG:HG3	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: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:AK:55:ARG:HD3	1:CF:272:TYR:CE2	2.37	0.58
1:CJ:454:ASN:HD22	1:CJ:456:ALA:N	2.00	0.58
1:CJ:272:TYR:CE2	1:CQ:55:ARG:HD3	2.38	0.58
1:CI:55:ARG:NE	1:CR:272:TYR:CE2	2.71	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:NH1	1:BE:284:ARG:HG2	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:272:TYR:HD1	1:AG:272:TYR:N	2.00	0.58
1:AG:38:GLU:HB2	1:CF:35:VAL:HG22	1.84	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:CD1	1:AB:262:TRP:N	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:NH1	1:CG:284:ARG:HG2	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:BQ:43:ALA:HB1	1:BQ:158:GLU:HA	1.86	0.58
1:BP:55:ARG:CD	1:CM:272:TYR:CE2	2.87	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: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:CG	1:BJ:79:ARG:HH11	2.10	0.58
1:BN:74:ASN:CB	1:BN:126:GLU:HG2	2.34	0.58
1:BR:454:ASN:HD22	1:BR:456:ALA:N	2.01	0.58
1:BP:272:TYR:CD2	1:CE:55:ARG:CZ	2.87	0.58
1:AL:55:ARG:CD	1:CQ:272:TYR:HE2	2.17	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:NH1	1:BM:284:ARG:HG2	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:BJ:74:ASN:CB	1:BJ:126:GLU:HG2	2.33	0.58
1:BH:55:ARG:CD	1:BK:272:TYR:HE2	2.17	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:AP:74:ASN:CB	1:AP:126:GLU:HG2	2.34	0.58
1:AJ:272:TYR:CE2	1:AQ:55:ARG:HD3	2.39	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:NH1	1:CF:284:ARG:HG2	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:NH1	1:AK:284:ARG:HG2	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: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:BF:55:ARG:CD	1:CH:272:TYR:HE2	2.16	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:NH1	1:BK:284:ARG:HG2	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:AH:75:ARG:NH2	1:AH:391:ALA:O	2.37	0.57
1:AM:398:GLY:HA3	1:AM:494:PHE:CD2	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:AB:272:TYR:HE2	1:CB:55:ARG:CD	2.18	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: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:NH1	1:CJ:284:ARG:HG2	2.20	0.57
1:AM:272:TYR:CD2	1:CP:55:ARG:HD3	2.40	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:HG3	1:BC:79:ARG:HH11	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: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:AB:55:ARG:HD3	1:BB:272:TYR:CD2	2.40	0.56
1:BS:189:PHE:CE1	1:BS:198:ARG:CG	2.88	0.56
1:BG:272:TYR:CD2	1:CG:55:ARG:CZ	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: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:AB:55:ARG:CD	1:BB:272:TYR:HE2	2.19	0.56
1:BM:398:GLY:HA3	1:BM:494:PHE:CD2	2.40	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:N	1:CB:191:LEU:HD23	2.18	0.56
1:CB:250:TRP:CE3	1:CB:272:TYR:CE1	2.93	0.56
1:CI:378:ARG:CG	1:CI:379:VAL:H	2.17	0.56
1:CR:284:ARG:NH1	1:CR:284:ARG:HG2	2.20	0.56
1:AH:250:TRP:CE3	1:AH:272:TYR:CE1	2.93	0.56
1:BB:454:ASN:ND2	1:BB:456:ALA:H	2.00	0.56
1:BN:189:PHE:CE1	1:BN:198:ARG:HG2	2.41	0.56
1:CC:454:ASN:HD22	1:CC:456:ALA:N	2.02	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:AA:272:TYR:HE2	1:CT:55:ARG:CD	2.18	0.56
1:AI:454:ASN:HD22	1:AI:456:ALA:N	2.03	0.56
1:AI:442:GLN:HE21	1:AJ:412:PHE:HB2	1.70	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:442:GLN:HE21	1:AR:412:PHE:HB2	1.71	0.56
1:AQ:67:VAL:HG23	1:AQ:135:LEU:HB2	1.88	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:CG	1:BF:79:ARG:HH11	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:CJ:18:ARG:HD2	1:CJ:19:TYR:O	2.05	0.56
1:CH:55:ARG:CD	1:CK:272:TYR:HE2	2.17	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:NH1	1:BT:79:ARG:HG3	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:NH1	1:CE:284:ARG:HG2	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:N	1:AK:191:LEU:HD23	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:NH1	1:AJ:284:ARG:HG2	2.22	0.55
1:AT:284:ARG:NH1	1:AT:284:ARG:HG2	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:AP:55:ARG:CD	1:BM:272:TYR:CE2	2.90	0.55
1:AI:144:ALA:HB3	1:AR:191:LEU:O	2.06	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:CI:272:TYR:HE2	1:CO:55:ARG:CD	2.18	0.55
1:CH:55:ARG:HD3	1:CK:272:TYR:CD2	2.41	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:454:ASN:ND2	1:CD:456:ALA:H	2.02	0.55
1:CD:55:ARG:HD3	1:CN:272:TYR:HD2	1.70	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:58:ALA:HB2	1:AR:102:GLY:HA3	1.88	0.55
1:AR:10:ILE:HG21	1:AR:146:TRP:CZ2	2.41	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:AQ:272:TYR:HE2	1:BL:55:ARG:CD	2.19	0.55
1:AJ:272:TYR:CE2	1:AQ:55:ARG:CZ	2.89	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: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:BF:55:ARG:HD3	1:CH:272:TYR:CE2	2.42	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:NH1	1:AQ:284:ARG:HG2	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:454:ASN:ND2	1:CJ:456:ALA:H	2.04	0.55
1:CJ:79:ARG:HG3	1:CJ:79:ARG:HH11	1.72	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:BL:36:GLN:NE2	1:BL:156:LEU:H	2.05	0.55
1:BI:272:TYR:CD2	1:BO:55:ARG:HD3	2.41	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:AH:162:PHE:CD2	1:AH:163:LEU:HD13	2.43	0.54
1:AF:405:GLN:NE2	1:AJ:437:HIS:CE1	2.76	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:189:PHE:HE2	1:BT:249:LEU:CD2	2.20	0.54
1:BT:55:ARG:NE	1:CA:272:TYR:HE2	1.96	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: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:AF:55:ARG:HD3	1:BH:272:TYR:CE2	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:250:TRP:HZ3	1:AH:272:TYR:CE1	2.24	0.54
1:AH:74:ASN:CB	1:AH:126:GLU:HG2	2.37	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:AF:288:HIS:HD2	1:AF:337:ASP:OD2	1.91	0.54
1:AO:203:THR:CG2	1:AO:293:ARG:HA	2.38	0.54
1:AJ:191:LEU:O	1:AQ:144:ALA:HB3	2.09	0.54
1:AD:272:TYR:HE2	1:AS:55:ARG:NE	2.06	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:189:PHE:HE2	1:AT:249:LEU:CD2	2.21	0.53
1:AT:11:PRO:HG2	1:AT:18:ARG:HD2	1.89	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: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:BC:272:TYR:HE2	1:CA:55:ARG:CD	2.21	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:250:TRP:HZ3	1:CP:272:TYR:CE1	2.25	0.53
1:CP:170:PHE:HD1	1:CP:389:MET:HE2	1.74	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: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:AL:272:TYR:CD2	1:CJ:55:ARG:NE	2.77	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:NH1	1:AF:79:ARG:HG3	2.17	0.53
1:AF:487:LEU:HD21	1:AJ:436:SER:O	2.09	0.53
1:AR:454:ASN:ND2	1:AR:456:ALA:H	2.03	0.53
1:AP:412:PHE:HB2	1:AT:442:GLN:HE21	1.74	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:AL:272:TYR:CD2	1:CJ:55:ARG:NH1	2.76	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:NH1	1:AN:79:ARG:HG3	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:N	1:BI:191:LEU:HD23	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:191:LEU:N	1:BM:191:LEU:HD23	2.17	0.53
1:BM:79:ARG:HH11	1:BM:79:ARG:CG	2.22	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:NH1	1:CO:79:ARG:HG3	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:250:TRP:CE3	1:AF:272:TYR:CE1	2.97	0.53
1:AF:67:VAL:HG23	1:AF:135:LEU:HB2	1.91	0.53
1:AK:189:PHE:CE1	1:AK:198:ARG:CG	2.92	0.53
1:AK:74:ASN:ND2	1:AK:77:THR:OG1	2.42	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:N	1:AO:191:LEU:CD2	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:170:PHE:HD1	1:BT:389:MET:CE	2.22	0.53
1:BT:74:ASN:ND2	1:BT:77:THR:OG1	2.41	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:CG	1:AD:79:ARG:HH11	2.21	0.52
1:AG:284:ARG:CG	1:AG:284:ARG:NH1	2.69	0.52
1:AK:398:GLY:HA3	1:AK:494:PHE:CD2	2.43	0.52
1:AK:75:ARG:NH2	1:AK:391:ALA:O	2.42	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:HD1	1:CC:272:TYR:N	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:AL:55:ARG:HD3	1:CQ:272:TYR:CE2	2.44	0.52
1:AH:437:HIS:CE1	1:AI:405:GLN:NE2	2.77	0.52
1:AJ:191:LEU:N	1:AJ:191:LEU:CD2	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:CA:189:PHE:CE1	1:CA:198:ARG:CG	2.93	0.52
1:BT:55:ARG:CZ	1:CA:272:TYR:CD2	2.92	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:398:GLY:HA3	1:BL:494:PHE:CD2	2.44	0.52
1:BL:79:ARG:CG	1:BL:79:ARG:HH11	2.23	0.52
1:BO:191:LEU:CD2	1:BO:191:LEU:N	2.73	0.52
1:BO:284:ARG:NH1	1:BO:284:ARG:CG	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:N	1:AL:191:LEU:CD2	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:N	1:BO:191:LEU:HD23	2.17	0.52
1:BS:250:TRP:CE3	1:BS:272:TYR:CE1	2.98	0.52
1:BT:191:LEU:N	1:BT:191:LEU:HD23	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:191:LEU:CD2	1:AP:191:LEU:N	2.72	0.52
1:AP:55:ARG:HD3	1:BM:272:TYR:CD2	2.44	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:BJ:272:TYR:N	1:BJ:272:TYR:CD1	2.78	0.52
1:AP:55:ARG:CD	1:BM:272:TYR:HE2	2.23	0.52
1:BE:272:TYR:CE2	1:BM:55:ARG:CZ	2.93	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:CG	1:CO:79:ARG:HH11	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:N	1:BD:191:LEU:CD2	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:NH1	1:CF:79:ARG:CG	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:250:TRP:HZ3	1:CA:272:TYR:CE1	2.26	0.51
1:CA:74:ASN:ND2	1:CA:77:THR:OG1	2.43	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:HD13	1:AB:265:LEU:O	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:HD1	1:CJ:272:TYR:N	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:AI:170:PHE:HD1	1:AI:389:MET:CE	2.24	0.51
1:AJ:288:HIS:HD2	1:AJ:337:ASP:OD2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AF:412:PHE:HB2	1:AJ:442:GLN:HE21	1.74	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: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:BC:272:TYR:HD2	1:CA:55:ARG:HD3	1.73	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:HD1	1:AS:272:TYR:N	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:BE:191:LEU:CD2	1:BE:191:LEU:N	2.74	0.51
1:BI:226:VAL:HG13	1:BI:228:GLY:H	1.76	0.51
1:BI:79:ARG:HH11	1:BI:79:ARG:HG3	1.75	0.51
1:BK:239:ILE:HG12	1:BK:326:ILE:CD1	2.41	0.51
1:BD:144:ALA:HB3	1:BN:191:LEU:O	2.10	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:354:SER:O	1:CI:378:ARG:CB	2.58	0.51
1:CI:38:GLU:CB	1:CQ:35:VAL:CG2	2.88	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: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:226:VAL:HG13	1:AP:228:GLY:H	1.75	0.51
1:AP:67:VAL:HG23	1:AP:135:LEU:HB2	1.93	0.51
1:AQ:189:PHE:CE1	1:AQ:198:ARG:CG	2.94	0.51
1:AR:191:LEU:N	1:AR:191:LEU:CD2	2.73	0.51
1:BE:162:PHE:CD2	1:BE:163:LEU:HD13	2.46	0.51
1:AQ:272:TYR:CD2	1:BL:55:ARG:HD3	2.45	0.51
1:BO:30:SER:O	1:BO:33:LYS:HB2	2.11	0.51
1:AA:55:ARG:HD3	1:CC:272:TYR:CD2	2.45	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:BJ:30:SER:O	1:BJ:33:LYS:HB2	2.09	0.51
1:BS:74:ASN:ND2	1:BS:77:THR:OG1	2.44	0.51
1:BF:55:ARG:HD3	1:CH:272:TYR:HD2	1.75	0.51
1:CL:288:HIS:HD2	1:CL:337:ASP:OD2	1.94	0.51
1:BP:55:ARG:HD3	1:CM:272:TYR:CE2	2.46	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:250:TRP:HZ3	1:CB:272:TYR:CE1	2.25	0.51
1:CB:232:THR:HB	1:CB:334:VAL:CG2	2.41	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: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:AG:263:ASN:O	1:BG:32:PHE:HE1	1.93	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:N	1:BT:191:LEU:CD2	2.74	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:N	1:CH:191:LEU:CD2	2.75	0.50
1:CH:398:GLY:HA3	1:CH:494:PHE:CD2	2.45	0.50
1:CI:404:LEU:HD22	1:CI:486:VAL:HG22	1.92	0.50
1:CI:58:ALA:HB2	1:CI:102:GLY:HA3	1.93	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:N	1:CQ:191:LEU:CD2	2.73	0.50
1:CC:55:ARG:CZ	1:CT:272:TYR:CE2	2.93	0.50
1:AB:79:ARG:CG	1:AB:79:ARG:HH11	2.22	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:CG	1:AI:79:ARG:HH11	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:AD:5:ARG:HD3	1:AN:263:ASN:HD22	1.75	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:BI:67:VAL:HG23	1:BI:135:LEU:HB2	1.93	0.50
1:BM:162:PHE:CD2	1:BM:163:LEU:HD13	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BD:272:TYR:HE2	1:BS:55:ARG:NE	2.04	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:N	1:BA:191:LEU:HD23	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:CD1	1:CJ:272:TYR:N	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:N	1:BO:272:TYR:CD1	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:HD1	1:CM:272:TYR:N	2.09	0.50
1:CN:170:PHE:HD1	1:CN:389:MET:CE	2.23	0.50
1:AB:261:ASP:O	1:AB:261:ASP:OD1	2.30	0.50
1:AB:239:ILE:HG12	1:AB:326:ILE:CD1	2.41	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:CD1	1:BB:272:TYR:N	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:232:THR:HB	1:CQ:334:VAL:CG2	2.42	0.50
1:CQ:67:VAL:HG23	1:CQ:135:LEU:HB2	1.94	0.50
1:AB:61:PHE:CD2	1:AB:243:ILE:HD11	2.47	0.50
1:AC:454:ASN:ND2	1:AC:456:ALA:H	2.06	0.50
1:AC:55:ARG:CZ	1:AT:272:TYR:CE2	2.95	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:189:PHE:CE1	1:AO:198:ARG:CG	2.95	0.50
1:AO:79:ARG:NH1	1:AO:79:ARG:HG3	2.24	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:232:THR:HB	1:CQ:334:VAL:HG23	1.93	0.50
1:CQ:79:ARG:HH11	1:CQ:79:ARG:HG3	1.77	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:AE:58:ALA:HB2	1:AE:102:GLY:HA3	1.92	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: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:272:TYR:CD2	1:CK:55:ARG:CZ	2.95	0.50
1:BF:170:PHE:HD1	1:BF:389:MET:CE	2.24	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:AL:272:TYR:HE2	1:CJ:55:ARG:NE	1.87	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:CE:272:TYR:N	1:CE:272:TYR:CD1	2.80	0.49
1:CD:418:SER:HB3	1:CE:407:SER:HB3	1.93	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:AK:79:ARG:HH11	1:AK:79:ARG:HG3	1.77	0.49
1:AO:189:PHE:HE1	1:AO:198:ARG:CG	2.24	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:55:ARG:HD3	1:AR:272:TYR:CE2	2.44	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: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:CB:74:ASN:ND2	1:CB:77:THR:OG1	2.44	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:HH11	1:AC:79:ARG:HG3	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:191:LEU:CD2	1:BG:191:LEU:N	2.75	0.49
1:BG:189:PHE:CE2	1:BG:249:LEU:HD21	2.44	0.49
1:BJ:454:ASN:ND2	1:BJ:456:ALA:H	2.07	0.49
1:BR:79:ARG:NH1	1:BR:79:ARG:HG3	2.22	0.49
1:CF:454:ASN:HD21	1:CF:456:ALA:HB3	1.78	0.49
1:CG:191:LEU:N	1:CG:191:LEU:CD2	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: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:CO:77:THR:O	1:CO:81:THR:HG23	2.11	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:HD1	1:BD:272:TYR:N	2.10	0.49
1:BF:16:ALA:O	1:BF:17:ASN:HB2	2.11	0.49
1:BH:191:LEU:N	1:BH:191:LEU:HD23	2.19	0.49
1:BP:162:PHE:CD2	1:BP:163:LEU:HD13	2.47	0.49
1:CC:272:TYR:N	1:CC:272:TYR:CD1	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:CD1	1:AS:272:TYR:N	2.80	0.49
1:AT:58:ALA:HB2	1:AT:102:GLY:HA3	1.93	0.49
1:BA:272:TYR:N	1:BA:272:TYR:CD1	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:N	1:CP:191:LEU:CD2	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:NH1	1:AO:284:ARG:CG	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: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:BJ:55:ARG:HD3	1:CL:272:TYR:CE2	2.46	0.49
1:CL:454:ASN:HD21	1:CL:456:ALA:HB3	1.77	0.49
1:CM:191:LEU:CD2	1:CM:191:LEU:N	2.74	0.49
1:CM:189:PHE:CE1	1:CM:198:ARG:HG2	2.47	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:N	1:AI:191:LEU:HD23	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:NH1	1:AK:284:ARG:CG	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:N	1:BH:191:LEU:CD2	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:CD1	1:BD:272:TYR:N	2.81	0.49
1:BJ:272:TYR:CE2	1:BQ:55:ARG:HD3	2.48	0.49
1:BQ:191:LEU:CD2	1:BQ:191:LEU:N	2.76	0.49
1:BO:272:TYR:HD2	1:BR:55:ARG:HD3	1.78	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:189:PHE:CE1	1:CF:198:ARG:HG2	2.47	0.49
1:CF:58:ALA:HB2	1:CF:102:GLY:HA3	1.94	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:232:THR:HB	1:AS:334:VAL:CG2	2.43	0.49
1:AS:58:ALA:HB2	1:AS:102:GLY:HA3	1.95	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:HD1	1:BB:272:TYR:N	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:N	1:BB:191:LEU:HD23	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:N	1:BM:191:LEU:CD2	2.74	0.48
1:BP:272:TYR:HD1	1:BP:272:TYR:N	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:CR:30:SER:O	1:CR:33:LYS:HB2	2.12	0.48
1:CO:272:TYR:CD2	1:CR:55:ARG:NH1	2.81	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:N	1:BF:191:LEU:CD2	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:N	1:AT:191:LEU:CD2	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:393:HIS:CG	1:CD:496:PHE:HB3	2.48	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: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:239:ILE:HD12	1:AJ:275:GLU:HA	1.94	0.48
1:AJ:35:VAL:HG22	1:BK:38:GLU:HB2	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:170:PHE:HD1	1:BA:389:MET:CE	2.26	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:272:TYR:N	1:BA:272:TYR:HD1	2.12	0.48
1:BA:67:VAL:HG23	1:BA:135:LEU:HB2	1.94	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:CD1	1:CD:272:TYR:N	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:CD1	1:CT:272:TYR:N	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: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:NH1	1:AS:284:ARG:CG	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:AK:55:ARG:CD	1:CF:272:TYR:CD2	2.94	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:N	1:CR:191:LEU:HD23	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:N	1:AG:276:ASP:OD1	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:404:LEU:HD22	1:AJ:486:VAL:HG22	1.95	0.48
1:AJ:398:GLY:HA3	1:AJ:494:PHE:CD2	2.48	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: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:BP:272:TYR:CD2	1:CE:55:ARG:CD	2.93	0.48
1:CG:272:TYR:CD1	1:CG:272:TYR:N	2.82	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:CI:144:ALA:CB	1:CR:191:LEU:O	2.61	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: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:AE:272:TYR:HD2	1:AM:55:ARG:HD3	1.78	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:N	1:AQ:191:LEU:CD2	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:BH:43:ALA:HB1	1:BH:158:GLU:HA	1.95	0.48
1:BF:412:PHE:HB2	1:BJ:442:GLN:HE21	1.79	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:CD1	1:AA:272:TYR:N	2.82	0.48
1:AC:239:ILE:HD12	1:AC:275:GLU:HA	1.94	0.48
1:AD:272:TYR:N	1:AD:272:TYR:HD1	2.12	0.48
1:AF:55:ARG:HD3	1:BH:272:TYR:HD2	1.77	0.48
1:AL:79:ARG:NH1	1:AL:79:ARG:CG	2.71	0.48
1:AT:284:ARG:CG	1:AT:284:ARG:NH1	2.73	0.48
1:AP:444:LEU:HD13	1:AT:440:ALA:HB3	1.95	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: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:BD:38:GLU:HB2	1:BM:35:VAL:HG22	1.96	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:BS:232:THR:HB	1:BS:334:VAL:HG23	1.96	0.48
1:BR:440:ALA:CB	1:BS:444:LEU:HD13	2.44	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:HD1	1:CD:272:TYR:N	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:NH1	1:AF:79:ARG:CG	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:NH1	1:CJ:284:ARG:CG	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: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:BC:55:ARG:CD	1:BT:272:TYR:CE2	2.96	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:HG3	1:BQ:79:ARG:HH11	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:272:TYR:CD2	1:CG:55:ARG:HD3	2.48	0.47
1:BG:58:ALA:HB2	1:BG:102:GLY:HA3	1.95	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:239:ILE:HD12	1:CR:275:GLU:HA	1.96	0.47
1:CR:86:PRO:O	1:CR:88:TYR:C	2.52	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:N	1:AI:191:LEU:CD2	2.76	0.47
1:AJ:18:ARG:HD2	1:AJ:19:TYR:O	2.13	0.47
1:AI:414:LYS:HA	1:AJ:411:GLU:HB3	1.95	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:454:ASN:HD21	1:AP:456:ALA:HB3	1.78	0.47
1:AP:79:ARG:CG	1:AP:79:ARG:HH11	2.27	0.47
1:BB:79:ARG:CG	1:BB:79:ARG:HH11	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:N	1:AD:191:LEU:CD2	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: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:BF:272:TYR:CE2	1:CK:55:ARG:CZ	2.97	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: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:AF:407:SER:HB3	1:AJ:418:SER:HB3	1.96	0.47
1:AJ:454:ASN:ND2	1:AJ:456:ALA:H	2.09	0.47
1:AJ:55:ARG:HD3	1:BL:272:TYR:HD2	1.78	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: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:AC:272:TYR:HE2	1:BA:55:ARG:NE	2.12	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:AI:162:PHE:CD2	1:AI:163:LEU:HD13	2.49	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:AS:189:PHE:HE2	1:AS:249:LEU:HD21	1.80	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:BL:232:THR:HB	1:BL:334:VAL:CG2	2.45	0.47
1:BT:189:PHE:CE2	1:BT:249:LEU:HD21	2.49	0.47
1:CK:263:ASN:O	1:CK:267:LYS:HG3	2.15	0.47
1:CO:272:TYR:HD1	1:CO:272:TYR:N	2.13	0.47
1:CR:234:ARG:HG2	1:CR:280:GLU:HG2	1.97	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:234:ARG:HG2	1:AI:280:GLU:HG2	1.97	0.47
1:AI:30:SER:O	1:AI:33:LYS:HB2	2.14	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:AR:272:TYR:N	1:AR:272:TYR:HD1	2.12	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: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:BR:239:ILE:HD12	1:BR:275:GLU:HA	1.96	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:BB:55:ARG:HD3	1:CB:272:TYR:CD2	2.49	0.47
1:CI:393:HIS:CG	1:CI:496:PHE:HB3	2.50	0.47
1:CK:442:GLN:HE21	1:CL:412:PHE:HB2	1.78	0.47
1:CI:272:TYR:CD2	1:CO:55:ARG:CZ	2.97	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: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:AC:55:ARG:CZ	1:AT:272:TYR:CD2	2.98	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: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
1:BC:55:ARG:CD	1:BT:272:TYR:HE2	2.28	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:N	1:AH:191:LEU:HD23	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:N	1:BC:191:LEU:CD2	2.76	0.47
1:BC:437:HIS:CE1	1:BD:405:GLN:NE2	2.83	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:BE:272:TYR:HE2	1:BM:55:ARG:NE	2.09	0.47
1:BP:22:THR:OG1	1:BP:131:HIS:CD2	2.58	0.47
1:BP:272:TYR:N	1:BP:272:TYR:CD1	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:CD1	1:CQ:272:TYR:N	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:272:TYR:CD2	1:CB:55:ARG:HD3	2.49	0.47
1:AB:61:PHE:CE2	1:AB:243:ILE:HD11	2.50	0.47
1:AD:272:TYR:CD1	1:AD:272:TYR:N	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:AG:30:SER:O	1:AG:33:LYS:HB2	2.14	0.47
1:AF:442:GLN:HE21	1:AG:412:PHE:HB2	1.80	0.47
1:AL:393:HIS:CG	1:AL:496:PHE:HB3	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:188:PHE:C	1:BC:189:PHE:HD1	2.17	0.47
1:BC:30:SER:O	1:BC:33:LYS:HB2	2.15	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:AK:55:ARG:CZ	1:CF:272:TYR:CD2	2.98	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: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:292:ALA:C	1:AO:293:ARG:CG	2.80	0.46
1:AO:239:ILE:HG23	1:AO:324:LEU:HD21	1.96	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:AA:55:ARG:HD3	1:CC:272:TYR:CE2	2.50	0.46
1:CG:454:ASN:HD21	1:CG:456:ALA:HB3	1.80	0.46
1:CI:162:PHE:CD2	1:CI:163:LEU:HD13	2.49	0.46
1:CI:67:VAL:HG23	1:CI:135:LEU:HB2	1.96	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:189:PHE:HD2	1:AN:247:ILE:CD1	2.27	0.46
1:AN:18:ARG:HG3	1:AN:19:TYR:N	2.30	0.46
1:AN:5:ARG:HD3	1:AS:263:ASN:HD22	1.80	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: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:AP:444:LEU:HD13	1:AT:440:ALA:CB	2.45	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:CD1	1:BH:272:TYR:N	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:HD23	1:CL:404:LEU:N	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:272:TYR:CE2	1:BA:55:ARG:HD3	2.50	0.46
1:AC:43:ALA:HB1	1:AC:158:GLU:HA	1.98	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:BG:18:ARG:HG2	1:BG:20:LEU:HD23	1.98	0.46
1:BF:442:GLN:HE21	1:BG:412:PHE:HB2	1.80	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:239:ILE:HG12	1:CB:326:ILE:CD1	2.46	0.46
1:CB:203:THR:HB	1:CB:300:GLN:HG3	1.97	0.46
1:CD:79:ARG:NH1	1:CD:79:ARG:CG	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:170:PHE:HD1	1:CO:389:MET:CE	2.29	0.46
1:CO:25:ILE:HG23	1:CO:152:LEU:HD11	1.97	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: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:AP:272:TYR:CD2	1:BE:55:ARG:CZ	2.98	0.46
1:BF:58:ALA:HB2	1:BF:102:GLY:HA3	1.97	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:191:LEU:N	1:BR:191:LEU:CD2	2.77	0.46
1:BR:263:ASN:O	1:BR:267:LYS:HG3	2.14	0.46
1:BR:30:SER:O	1:BR:33:LYS:HB2	2.15	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:423:LYS:HE2	1:BT:449:GLU:O	2.16	0.46
1:BT:393:HIS:CG	1:BT:496:PHE:HB3	2.51	0.46
1:CE:61:PHE:CD2	1:CE:243:ILE:HD11	2.50	0.46
1:CE:170:PHE:HD1	1:CE:389:MET:CE	2.29	0.46
1:CE:75:ARG:NH2	1:CE:391:ALA:O	2.48	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:BF:272:TYR:HE2	1:CK:55:ARG:NE	2.10	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:NH1	1:BA:284:ARG:CG	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:226:VAL:HG13	1:BD:228:GLY:H	1.80	0.46
1:BD:189:PHE:CE2	1:BD:249:LEU:HD21	2.50	0.46
1:BD:170:PHE:HD1	1:BD:389:MET:HE2	1.81	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:N	1:AH:191:LEU:CD2	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:CD1	1:BE:272:TYR:N	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:255:TRP:CE3	1:BN:285:SER:HB2	2.51	0.46
1:BN:30:SER:O	1:BN:33:LYS:HB2	2.15	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:HD1	1:CG:272:TYR:N	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:HD1	1:CI:272:TYR:N	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:N	1:CR:191:LEU:CD2	2.76	0.46
1:AA:237:VAL:HG23	1:AA:279:PHE:CD2	2.51	0.45
1:AB:269:PRO:HG2	1:AB:269:PRO:O	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:CD1	1:AT:272:TYR:N	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:272:TYR:N	1:BG:272:TYR:HD1	2.14	0.45
1:BG:79:ARG:HG3	1:BG:79:ARG:NH1	2.30	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:HD1	1:BM:272:TYR:N	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:CB:318:SER:HA	1:CB:319:GLY:HA2	1.76	0.45
1:CA:444:LEU:HD13	1:CE:440:ALA:CB	2.46	0.45
1:CF:272:TYR:CD1	1:CF:272:TYR:N	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:AK:263:ASN:O	1:AK:267:LYS:HG3	2.15	0.45
1:AK:272:TYR:HD1	1:AK:272:TYR:N	2.13	0.45
1:AN:189:PHE:HD2	1:AN:247:ILE:HD11	1.80	0.45
1:AI:144:ALA:CB	1:AR:191:LEU:O	2.64	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: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:232:THR:HB	1:CA:334:VAL:CG2	2.46	0.45
1:CA:170:PHE:HD1	1:CA:389:MET:HE2	1.80	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:BP:272:TYR:CD2	1:CE:55:ARG:NH1	2.84	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:HG3	1:AP:18:ARG:HH11	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:454:ASN:HD21	1:BP:456:ALA:HB3	1.81	0.45
1:BP:79:ARG:CG	1:BP:79:ARG:NH1	2.60	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:379:VAL:HG11	1:AC:381:MET:HE1	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:73:TYR:O	1:AC:75:ARG:HG2	2.16	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:HD1	1:AN:272:TYR:N	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: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:BC:55:ARG:HD3	1:BT:272:TYR:CD2	2.52	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:CD1	1:AC:272:TYR:N	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:272:TYR:N	1:AT:272:TYR:HD1	2.14	0.45
1:AT:234:ARG:HG2	1:AT:280:GLU:HG2	1.97	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:HG3	1:CP:18:ARG:HH11	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:N	1:AM:272:TYR:CD1	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:N	1:BL:272:TYR:CD1	2.85	0.45
1:BM:75:ARG:NH2	1:BM:391:ALA:O	2.50	0.45
1:BP:189:PHE:CE2	1:BP:249:LEU:HD21	2.52	0.45
1:BP:74:ASN:ND2	1:BP:77:THR:OG1	2.50	0.45
1:BQ:237:VAL:HG23	1:BQ:279:PHE:CD2	2.52	0.45
1:BQ:272:TYR:CD1	1:BQ:272:TYR:N	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:189:PHE:HD2	1:CI:247:ILE:HD11	1.81	0.45
1:CI:43:ALA:HB1	1:CI:158:GLU:HA	1.97	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:272:TYR:CD1	1:AP:272:TYR:N	2.85	0.45
1:AP:203:THR:HB	1:AP:300:GLN:HG3	1.97	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:318:SER:HA	1:BN:319:GLY:HA2	1.80	0.45
1:BN:232:THR:HB	1:BN:334:VAL:CG2	2.47	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: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:AN:430:MET:HE1	1:AO:296:ALA:HA	1.98	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: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:HB2	1:CM:300:GLN:HE21	1.54	0.45
1:CM:395:LEU:HB2	1:CM:497:TYR:HB2	1.99	0.45
1:CO:252:VAL:HG22	1:CO:253:SER:N	2.32	0.45
1:CN:440:ALA:CB	1:CO:444:LEU:HD13	2.47	0.45
1:CI:38:GLU:CB	1:CQ:35:VAL:HG23	2.46	0.45
1:CR:437:HIS:CE1	1:CS:405:GLN:NE2	2.85	0.45
1:CR:77:THR:O	1:CR:81:THR:CG2	2.65	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:182:LEU:HG	1:AK:330:ILE:HB	1.99	0.44
1:AK:30:SER:O	1:AK:33:LYS:HB2	2.17	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:191:LEU:CD2	1:CD:191:LEU:N	2.77	0.44
1:CD:79:ARG:NH1	1:CD:79:ARG:HG3	2.14	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:CD1	1:BN:272:TYR:N	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:HD1	1:AI:272:TYR:N	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:BN:191:LEU:N	1:BN:191:LEU:CD2	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:HD1	1:BQ:272:TYR:N	2.15	0.44
1:BJ:272:TYR:CD2	1:BQ:55:ARG:NE	2.83	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:HB2	1:CQ:300:GLN:HE21	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:189:PHE:HD2	1:AG:247:ILE:HD11	1.81	0.44
1:AG:55:ARG:HD3	1:CG:272:TYR:HD2	1.76	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:238:HIS:HE1	1:BL:329:GLN:OE1	2.01	0.44
1:BL:30:SER:O	1:BL:33:LYS:HB2	2.16	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:239:ILE:HD12	1:BP:275:GLU:HA	2.00	0.44
1:BP:234:ARG:HG2	1:BP:280:GLU:HG2	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:CK:188:PHE:C	1:CK:189:PHE:HD1	2.21	0.44
1:CK:272:TYR:HD1	1:CK:272:TYR:N	2.16	0.44
1:CN:398:GLY:HA3	1:CN:494:PHE:CD2	2.52	0.44
1:CJ:191:LEU:O	1:CQ:144:ALA:HB3	2.17	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:191:LEU:N	1:CO:191:LEU:CD2	2.76	0.44
1:CO:79:ARG:CG	1:CO:79:ARG:NH1	2.79	0.44
1:CQ:171:ASP:HA	1:CQ:172:PRO:HD3	1.78	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:CT:79:ARG:HG3	1:CT:79:ARG:HH11	1.83	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:N	1:BI:191:LEU:CD2	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:CD1	1:BT:272:TYR:N	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: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:CQ:75:ARG:NH2	1:CQ:391:ALA:O	2.48	0.44
1:CR:239:ILE:HG12	1:CR:326:ILE:CD1	2.48	0.44
1:AA:272:TYR:HD1	1:AA:272:TYR:N	2.15	0.44
1:AF:272:TYR:CD1	1:AF:272:TYR:N	2.84	0.44
1:AF:162:PHE:CD1	1:AG:287:TYR:HA	2.53	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:272:TYR:CD2	1:AO:55:ARG:NH1	2.86	0.44
1:AI:250:TRP:HZ3	1:AI:272:TYR:CE1	2.31	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:AJ:55:ARG:CZ	1:BL:272:TYR:CE2	3.01	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:CD1	1:BC:272:TYR:N	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:272:TYR:N	1:AF:272:TYR:HD1	2.16	0.44
1:AF:234:ARG:HG2	1:AF:280:GLU:HG2	1.99	0.44
1:AG:262:TRP:C	1:AG:264:GLU:N	2.67	0.44
1:AH:272:TYR:CD1	1:AH:272:TYR:N	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: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:BA:444:LEU:HD13	1:BE:440:ALA:CB	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:CD1	1:CL:272:TYR:N	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:BB:250:TRP:HZ3	1:BB:272:TYR:HE1	1.63	0.43
1:BH:272:TYR:HD1	1:BH:272:TYR:N	2.15	0.43
1:BI:203:THR:HB	1:BI:300:GLN:HG3	2.00	0.43
1:BK:272:TYR:CD1	1:BK:272:TYR:N	2.86	0.43
1:BK:404:LEU:HD22	1:BK:486:VAL:HG22	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AQ:272:TYR:CE2	1:BL:55:ARG:CZ	3.01	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:AM:22:THR:OG1	1:AM:131:HIS:CD2	2.63	0.43
1:AL:440:ALA:HB3	1:AM:444:LEU:HD13	2.00	0.43
1:AN:263:ASN:O	1:AN:267:LYS:HG3	2.17	0.43
1:AN:30:SER:O	1:AN:33:LYS:HB2	2.19	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:HB2	1:BI:381:MET:HE2	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:58:ALA:HB2	1:CA:102:GLY:HA3	2.00	0.43
1:CA:18:ARG:HG3	1:CA:19:TYR:N	2.32	0.43
1:CG:79:ARG:NH1	1:CG:79:ARG:CG	2.70	0.43
1:CL:30:SER:O	1:CL:33:LYS:HB2	2.17	0.43
1:CN:15:GLN:HA	1:CN:15:GLN:OE1	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:CD1	1:CR:272:TYR:N	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:202:LEU:HB2	1:AB:304:SER:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:AB:38:GLU:HB2	1:BA:35:VAL:HG22	2.00	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:C	1:CB:324:LEU:HD23	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:272:TYR:HD1	1:AH:272:TYR:N	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:AH:55:ARG:NH1	1:AK:272:TYR:CD2	2.86	0.43
1:AM:454:ASN:C	1:AM:454:ASN:HD22	2.22	0.43
1:AN:300:GLN:HB2	1:AN:300:GLN:HE21	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: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:AO:272:TYR:CD2	1:AR:55:ARG:CZ	3.01	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:318:SER:HA	1:BT:319:GLY:HA2	1.81	0.43
1:BT:314:PRO:HB3	1:BT:324:LEU:HD13	2.01	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:256:ASN:HD22	1:CP:302:ASP:HA	1.84	0.43
1:CP:170:PHE:HD1	1:CP:389:MET:CE	2.30	0.43
1:AA:454:ASN:HD21	1:AA:456:ALA:HB3	1.84	0.43
1:AA:55:ARG:CZ	1:CC:272:TYR:CD2	3.02	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:404:LEU:HD22	1:AF:486:VAL:HG22	2.00	0.43
1:AF:55:ARG:CZ	1:BH:272:TYR:CE2	3.01	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:N	1:BG:404:LEU:HD23	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: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:189:PHE:HD2	1:CJ:247:ILE:HD11	1.83	0.43
1:CJ:25:ILE:HG23	1:CJ:152:LEU:HD11	2.01	0.43
1:CJ:324:LEU:HD23	1:CJ:324:LEU:C	2.39	0.43
1:CL:272:TYR:N	1:CL:272:TYR:HD1	2.16	0.43
1:BP:55:ARG:CZ	1:CM:272:TYR:CE2	3.01	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: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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:BP:55:ARG:NE	1:CM:272:TYR:HE2	2.10	0.43
1:AE:55:ARG:NH1	1:CP:272:TYR:CD2	2.86	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:272:TYR:CD1	1:BF:272:TYR:N	2.84	0.43
1:BF:232:THR:HB	1:BF:334:VAL:HG23	2.00	0.43
1:BG:318:SER:HA	1:BG:319:GLY:HA2	1.81	0.43
1:BF:437:HIS:CE1	1:BG:405:GLN:NE2	2.87	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:43:ALA:HB1	1:CE:158:GLU:HA	2.00	0.43
1:CE:25:ILE:HG23	1:CE:152:LEU:HD11	2.01	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: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:AE:272:TYR:CE2	1:AM:55:ARG:CZ	3.01	0.43
1:AQ:170:PHE:HD1	1:AQ:389:MET:HE2	1.84	0.43
1:AR:55:ARG:HH11	1:AR:55:ARG:HG2	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: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:BI:55:ARG:CD	1:BR:272:TYR:CD2	2.98	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:272:TYR:N	1:CB:272:TYR:HD1	2.16	0.43
1:CB:79:ARG:NH1	1:CB:79:ARG:HG3	2.30	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:C	1:CF:324:LEU:HD23	2.39	0.43
1:CH:272:TYR:N	1:CH:272:TYR:HD1	2.17	0.43
1:CH:79:ARG:NH1	1:CH:79:ARG:CG	2.77	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:HB2	1:BC:18:ARG:NH1	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:HD23	1:AB:404:LEU:N	2.34	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:N	1:BA:191:LEU:CD2	2.77	0.43
1:AC:272:TYR:CD2	1:BA:55:ARG:HD3	2.54	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:HD1	1:BE:272:TYR:N	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:HD1	1:CF:272:TYR:N	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:11:PRO:HG2	1:AD:18:ARG:CD	2.48	0.42
1:AD:10:ILE:CD1	1:AD:20:LEU:HD13	2.49	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:HA	1:AP:163:LEU:HD12	1.90	0.42
1:AR:207:VAL:HA	1:AR:208:PRO:HD3	1.84	0.42
1:AD:272:TYR:HD2	1:AS:55:ARG:HD3	1.81	0.42
1:AT:191:LEU:N	1:AT:191:LEU:HD23	2.21	0.42
1:BA:324:LEU:C	1:BA:324:LEU:HD23	2.39	0.42
1:BF:226:VAL:HG13	1:BF:228:GLY:H	1.84	0.42
1:BF:189:PHE:CE2	1:BF:249:LEU:HD21	2.49	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:HA	1:BN:163:LEU:HD12	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:HD23	1:AC:404:LEU:N	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: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: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:AI:55:ARG:HD2	1:AR:272:TYR:HE2	1.81	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:HB2	1:BG:381:MET:HE2	1.80	0.42
1:AF:55:ARG:CZ	1:BH:272:TYR:CD2	3.02	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:NH1	1:BR:79:ARG:CG	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: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:AC:272:TYR:CE2	1:BA:55:ARG:CZ	3.03	0.42
1:BD:263:ASN:O	1:BD:267:LYS:HG3	2.19	0.42
1:BF:191:LEU:N	1:BF:191:LEU:HD23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BF:75:ARG:NH2	1:BF:391:ALA:O	2.50	0.42
1:BG:15:GLN:NE2	1:BG:15:GLN:HA	2.30	0.42
1:BH:33:LYS:CG	1:BH:33:LYS:O	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:HD12	1:BM:182:LEU:C	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:HD23	1:AI:404:LEU:N	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:CD1	1:AQ:272:TYR:N	2.85	0.42
1:AS:202:LEU:HD23	1:AS:202:LEU:HA	1.92	0.42
1:BA:189:PHE:HD2	1:BA:247:ILE:CD1	2.33	0.42
1:BA:73:TYR:CE2	1:BA:394:GLY:HA3	2.54	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:272:TYR:HD1	1:BF:272:TYR:N	2.17	0.42
1:BF:79:ARG:CG	1:BF:79:ARG:NH1	2.80	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:O	1:BO:175:PHE:CD2	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:HD23	1:CN:404:LEU:N	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:HB2	1:AA:300:GLN:HE21	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:HA	1:AK:340:LEU:HD23	1.89	0.42
1:AM:324:LEU:C	1:AM:324:LEU:HD23	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:HD12	1:BT:182:LEU:C	2.39	0.42
1:CA:36:GLN:HE22	1:CA:156:LEU:H	1.64	0.42
1:CA:19:TYR:CZ	1:CA:81:THR:HG22	2.55	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:N	1:CL:191:LEU:HD23	2.19	0.42
1:CM:252:VAL:HG22	1:CM:253:SER:N	2.35	0.42
1:CR:324:LEU:HD23	1:CR:324:LEU:C	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: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:AF:74:ASN:ND2	1:AF:77:THR:OG1	2.53	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: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:239:ILE:HG12	1:AL:326:ILE:CD1	2.50	0.42
1:AL:232:THR:HB	1:AL:334:VAL:HG23	2.01	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:272:TYR:HD1	1:AQ:272:TYR:N	2.18	0.42
1:AQ:340:LEU:HD23	1:AQ:340:LEU:HA	1.86	0.42
1:AJ:263:ASN:HD22	1:AQ:5:ARG:HD3	1.84	0.42
1:AQ:79:ARG:HG3	1:AQ:79:ARG:NH1	2.32	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:HB2	1:BS:300:GLN:HE21	1.57	0.42
1:CF:284:ARG:CG	1:CF:284:ARG:NH1	2.74	0.42
1:CJ:300:GLN:HB2	1:CJ:300:GLN:HE21	1.59	0.42
1:CM:108:ILE:HG23	1:CM:113:LEU:HD12	2.02	0.42
1:CL:162:PHE:CD1	1:CM:287:TYR:HA	2.54	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:318:SER:HA	1:AF:319:GLY:HA2	1.82	0.42
1:AF:232:THR:HB	1:AF:334:VAL:HG23	2.01	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:AP:255:TRP:CE3	1:AP:285:SER:HB2	2.55	0.42
1:AI:55:ARG:NE	1:AR:272:TYR:CD2	2.87	0.42
1:AN:55:ARG:CD	1:AS:272:TYR:CD2	3.00	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: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:AJ:272:TYR:CD1	1:AJ:272:TYR:N	2.86	0.42
1:AN:79:ARG:NH1	1:AN:79:ARG:CG	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:HD23	1:CD:324:LEU:C	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:AH:272:TYR:HD2	1:CF:55:ARG:HD3	1.79	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
1:AA:272:TYR:CD2	1:CT:55:ARG:CZ	3.03	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:423:LYS:HE2	1:AI:449:GLU:O	2.19	0.42
1:AI:79:ARG:CG	1:AI:79:ARG:NH1	2.79	0.42
1:AN:442:GLN:HE21	1:AO:412:PHE:HB2	1.85	0.42
1:AQ:263:ASN:O	1:AQ:267:LYS:HG3	2.19	0.42
1:AQ:77:THR:O	1:AQ:81:THR:HG23	2.20	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:HB2	1:BB:300:GLN:HE21	1.67	0.42
1:BC:232:THR:HB	1:BC:334:VAL:HG23	2.02	0.42
1:BD:324:LEU:C	1:BD:324:LEU:HD23	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:O	1:BG:175:PHE:CD2	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:HD1	1:BK:272:TYR:N	2.17	0.42
1:BS:108:ILE:HG23	1:BS:113:LEU:HD12	2.02	0.42
1:BN:55:ARG:CZ	1:BS:272:TYR:CE2	3.03	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:379:VAL:CG1	1:CF:381:MET:CE	2.98	0.42
1:CF:43:ALA:HB1	1:CF:158:GLU:HA	2.01	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:HD23	1:CJ:404:LEU:N	2.35	0.42
1:CO:372:PHE:H	1:CO:381:MET:HE1	1.85	0.42
1:CQ:175:PHE:O	1:CQ:175:PHE:CD2	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: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: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:BA:412:PHE:HB2	1:BE:442:GLN:HE21	1.85	0.42
1:AG:191:LEU:O	1:BG:144:ALA:HB3	2.20	0.42
1:BJ:202:LEU:HD23	1:BJ:202:LEU:HA	1.87	0.42
1:BL:33:LYS:HE2	1:BL:33:LYS:HB2	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:HB2	1:AF:381:MET:HE2	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:163:LEU:HD21	1:BA:458:ALA:HB2	2.01	0.41
1:BA:73:TYR:CZ	1:BA:394:GLY:HA3	2.55	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:O	1:BE:175:PHE:CD2	2.73	0.41
1:BF:15:GLN:HE21	1:BF:15:GLN:HA	1.84	0.41
1:BF:232:THR:HB	1:BF:334:VAL:CG2	2.50	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:BI:55:ARG:HD3	1:BR:272:TYR:HD2	1.79	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:HG22	1:AB:259:THR:O	2.15	0.41
1:AC:381:MET:HB2	1:AC:381:MET:HE2	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:O	1:CG:175:PHE:CD2	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:HD12	1:CQ:182:LEU:C	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:HA	1:AE:163:LEU:HD12	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:BP:324:LEU:HA	1:BP:325:PRO:HD3	1.84	0.41
1:BR:272:TYR:N	1:BR:272:TYR:HD1	2.18	0.41
1:BR:239:ILE:HG12	1:BR:326:ILE:CD1	2.50	0.41
1:BR:395:LEU:HB2	1:BR:497:TYR:HB2	2.01	0.41
1:BO:272:TYR:CD2	1:BR:55:ARG:NH1	2.87	0.41
1:CD:48:PRO:HG2	1:CD:50:PHE:CZ	2.56	0.41
1:BP:272:TYR:HD2	1:CE:55:ARG:HD3	1.77	0.41
1:CH:437:HIS:CE1	1:CI:405:GLN:NE2	2.88	0.41
1:CJ:191:LEU:N	1:CJ:191:LEU:CD2	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: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:CP:444:LEU:HD13	1:CT:440:ALA:CB	2.50	0.41
1:AC:171:ASP:HA	1:AC:172:PRO:HD3	1.81	0.41
1:AC:25:ILE:HG23	1:AC:152:LEU:HD11	2.01	0.41
1:AG:182:LEU:HG	1:AG:330:ILE:HB	2.03	0.41
1:AH:15:GLN:CA	1:AH:15:GLN:HE21	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:AM:163:LEU:HD12	1:AM:163:LEU:HA	1.82	0.41
1:AL:442:GLN:NE2	1:AM:412:PHE:HB2	2.34	0.41
1:AN:77:THR:O	1:AN:81:THR:HG23	2.20	0.41
1:AO:294:LEU:CD1	1:AO:299:SER:HA	2.49	0.41
1:AO:202:LEU:HB2	1:AO:304:SER:O	2.21	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: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:238:HIS:HE1	1:BI:329:GLN:OE1	2.04	0.41
1:BI:25:ILE:HD12	1:BI:128:PRO:HB2	2.02	0.41
1:BD:38:GLU:HB3	1:BM:35:VAL:HG23	2.02	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:C	1:CP:324:LEU:HD23	2.40	0.41
1:CQ:234:ARG:HG2	1:CQ:280:GLU:HG2	2.03	0.41
1:CQ:45:LEU:HD23	1:CQ:45:LEU:HA	1.88	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:188:PHE:C	1:AK:189:PHE:HD1	2.24	0.41
1:AK:33:LYS:HE2	1:AK:33:LYS:HB2	1.97	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:272:TYR:HD1	1:AM:272:TYR:N	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:HB2	1:BG:300:GLN:HE21	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:AM:272:TYR:CE2	1:CP:55:ARG:CZ	3.04	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:285:SER:HA	1:AG:286:PRO:HD3	1.94	0.41
1:AG:232:THR:HB	1:AG:334:VAL:HG23	2.01	0.41
1:AO:79:ARG:CG	1:AO:79:ARG:NH1	2.84	0.41
1:AQ:163:LEU:HA	1:AQ:163:LEU:HD12	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:HB2	1:BT:300:GLN:HE21	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:HB2	1:AB:18:ARG:NH1	2.36	0.41
1:AB:257:GLY:O	1:AB:258:THR:HG22	2.20	0.41
1:AB:79:ARG:CG	1:AB:79:ARG:NH1	2.82	0.41
1:AE:300:GLN:HB2	1:AE:300:GLN:HE21	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: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:CG	1:BJ:79:ARG:NH1	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
1:BP:28:MET:HE2	1:BP:152:LEU:HG	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:BB:35:VAL:HG22	1:CA:38:GLU:HB2	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:N	1:CL:191:LEU:CD2	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:HD23	1:AC:324:LEU:C	2.42	0.41
1:AE:371:ASP:OD1	1:AE:381:MET:HG2	2.20	0.41
1:AH:182:LEU:HD12	1:AH:182:LEU:C	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:AN:241:ALA:HB1	1:AN:242:PRO:HD2	2.03	0.41
1:AM:436:SER:O	1:AN:487:LEU:HD21	2.21	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:191:LEU:HD23	1:BL:191:LEU:N	2.22	0.41
1:BL:79:ARG:NH1	1:BL:79:ARG:CG	2.83	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:CI:255:TRP:CE3	1:CI:285:SER:HB2	2.56	0.41
1:CH:162:PHE:CD1	1:CI:287:TYR:HA	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: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: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:287:TYR:HA	1:AJ:162:PHE:CD1	2.55	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: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:AL:372:PHE:H	1:AL:381:MET:HE1	1.85	0.41
1:AN:202:LEU:HD23	1:AN:202:LEU:HA	1.90	0.41
1:AO:58:ALA:HB2	1:AO:102:GLY:HA3	2.01	0.41
1:BE:201:GLY:HA3	1:BE:300:GLN:HG2	2.02	0.41
1:BL:170:PHE:HD1	1:BL:389:MET:CE	2.33	0.41
1:BO:232:THR:HB	1:BO:334:VAL:HG23	2.03	0.41
1:BN:442:GLN:NE2	1:BO:412:PHE:HB2	2.34	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:C	1:BR:324:LEU:HD23	2.41	0.41
1:BT:20:LEU:HB2	1:BT:132:PHE:O	2.21	0.41
1:BT:324:LEU:HA	1:BT:325:PRO:HD3	1.88	0.41
1:CA:202:LEU:HA	1:CA:202:LEU:HD23	1.94	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: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:CL:43:ALA:HB1	1:CL:158:GLU:HA	2.02	0.41
1:CK:412:PHE:HB2	1:CO:442:GLN:HE21	1.86	0.41
1:CP:263:ASN:O	1:CP:267:LYS:HG3	2.20	0.41
1:CQ:207:VAL:HA	1:CQ:208:PRO:HD3	1.83	0.41
1:CR:189:PHE:HD2	1:CR:247:ILE:HD11	1.86	0.41
1:CR:85:ASP:O	1:CR:86:PRO:C	2.57	0.41
1:CS:232:THR:HB	1:CS:334:VAL:CG2	2.51	0.41
1:CR:162:PHE:CD1	1:CS:287:TYR:HA	2.56	0.41
1:CT:25:ILE:HG23	1:CT:152:LEU:HD11	2.03	0.41
1:AA:238:HIS:HE1	1:AA:329:GLN:OE1	2.04	0.41
1:AC:14:CYS:H	1:AC:138:ASN:HD21	1.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:256:ASN:HD22	1:AC:302:ASP:HA	1.85	0.41
1:AF:203:THR:HB	1:AF:300:GLN:CG	2.51	0.41
1:AG:43:ALA:HB1	1:AG:158:GLU:HA	2.03	0.41
1:AI:61:PHE:CD2	1:AI:243:ILE:HD11	2.55	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: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: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: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: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
1:BN:207:VAL:HA	1:BN:208:PRO:HD3	1.83	0.41
1:BQ:191:LEU:HD23	1:BQ:191:LEU:N	2.20	0.41
1:BN:55:ARG:CZ	1:BS:272:TYR:CD2	3.04	0.41
1:BS:37:TYR:O	1:BS:40:TRP:HB3	2.21	0.41
1:BT:20:LEU:HD11	1:BT:66:TRP:CD1	2.56	0.41
1:BT:379:VAL:HG11	1:BT:381:MET:HE1	2.02	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:AG:38:GLU:CB	1:CF:35:VAL:CG2	2.99	0.41
1:CG:239:ILE:HG23	1:CG:324:LEU:HD21	2.02	0.41
1:CH:182:LEU:HD12	1:CH:182:LEU:C	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:CM:58:ALA:HB2	1:CM:102:GLY:HA3	2.02	0.41
1:CM:14:CYS:H	1:CM:138:ASN:ND2	2.18	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:CQ:182:LEU:HG	1:CQ:330:ILE:HB	2.02	0.41
1:CQ:170:PHE:HB2	1:CQ:496:PHE:HE1	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CR:285:SER:HA	1:CR:286:PRO:HD3	1.91	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:HD12	1:AD:182:LEU:C	2.42	0.41
1:AD:234:ARG:CG	1:AD:280:GLU:HG2	2.51	0.41
1:AD:324:LEU:C	1:AD:324:LEU:HD23	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:HA	1:AL:340:LEU:HD23	1.94	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:N	1:BB:191:LEU:CD2	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:263:ASN:O	1:BF:267:LYS:HG3	2.21	0.41
1:BF:48:PRO:HG2	1:BF:50:PHE:CZ	2.56	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:252:VAL:HG22	1:CF:253:SER:N	2.36	0.41
1:CF:48:PRO:HG2	1:CF:50:PHE:CZ	2.56	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:AM:272:TYR:CD2	1:CP:55:ARG:CZ	3.04	0.41
1:CR:108:ILE:HG23	1:CR:113:LEU:HD12	2.03	0.41
1:CS:202:LEU:HA	1:CS:202:LEU:HD23	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: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:HD23	1:AI:202:LEU:HA	1.87	0.40
1:AI:440:ALA:CB	1:AJ:444:LEU:HD13	2.50	0.40
1:AI:418:SER:HB3	1:AJ:407:SER:CB	2.50	0.40
1:AJ:55:ARG:CZ	1:BL:272:TYR:CD2	3.04	0.40
1:AL:252:VAL:HG22	1:AL:253:SER:N	2.36	0.40
1:AL:250:TRP:HZ3	1:AL:272:TYR:HE1	1.64	0.40
1:AL:28:MET:CE	1:AL:152:LEU:HG	2.51	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:HA	1:BL:340:LEU:HD23	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:AB:263:ASN:ND2	1:CB:32:PHE:HA	2.34	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:O	1:CO:175:PHE:CD2	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:O	1:AB:175:PHE:CD2	2.75	0.40
1:AD:236:ARG:HA	1:AD:278:SER:HA	2.03	0.40
1:AI:203:THR:HB	1:AI:300:GLN:HG3	2.02	0.40
1:AH:434:GLY:O	1:AI:349:VAL:HG23	2.21	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:324:LEU:C	1:AO:324:LEU:HD23	2.41	0.40
1:AO:170:PHE:HD1	1:AO:389:MET:CE	2.33	0.40
1:AR:379:VAL:CG1	1:AR:381:MET:CE	2.99	0.40
1:AS:163:LEU:HA	1:AS:163:LEU:HD12	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: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:HD1	1:BN:272:TYR:N	2.18	0.40
1:BP:73:TYR:CE2	1:BP:394:GLY:HA3	2.56	0.40
1:BQ:36:GLN:HE22	1:BQ:156:LEU:H	1.63	0.40
1:BP:437:HIS:CE1	1:BQ:405:GLN:NE2	2.89	0.40
1:BR:454:ASN:C	1:BR:454:ASN:HD22	2.25	0.40
1:BS:171:ASP:HA	1:BS:172:PRO:HD3	1.80	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:CA:444:LEU:HD13	1:CE:440:ALA:HB3	2.03	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:BF:272:TYR:HD2	1:CK:55:ARG:HD3	1.80	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:C	1:AE:182:LEU:HD12	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:HA	1:BA:163:LEU:HD12	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:182:LEU:HD12	1:BO:182:LEU:C	2.42	0.40
1:BO:47:MET:HG2	1:BO:117:ALA:HB2	2.03	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: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:AF:418:SER:HB3	1:AG:407:SER:HB3	2.03	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:324:LEU:HA	1:BF:325:PRO:HD3	1.83	0.40
1:BF:30:SER:HA	1:BF:37:TYR:CD1	2.57	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:HD12	1:BN:182:LEU:C	2.41	0.40
1:BQ:108:ILE:HG23	1:BQ:113:LEU:HD12	2.03	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:BT:55:ARG:NH1	1:CA:272:TYR:CD2	2.90	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:HE2	1:CF:33:LYS:HB2	1.96	0.40
1:CI:163:LEU:HD12	1:CI:163:LEU:HA	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:HD23	1:CQ:340:LEU:HA	1.93	0.40
1:CQ:404:LEU:HD22	1:CQ:486:VAL:HG22	2.03	0.40
1:CR:252:VAL:HG22	1:CR:253:SER:N	2.36	0.40
1:CR:75:ARG:NH2	1:CR:391:ALA:O	2.54	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:185:PRO:HA	1:AF:186:PRO:HD3	1.90	0.40
1:AF:22:THR:OG1	1:AF:131:HIS:CD2	2.60	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:HA	1:CC:340:LEU:HD23	1.92	0.40
1:CD:126:GLU:HG3	1:CD:127:SER:H	1.85	0.40
1:CG:440:ALA:HB3	1:CH:444:LEU:HD13	2.03	0.40
1:CG:48:PRO:HG2	1:CG:50:PHE:CZ	2.56	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:HA	1:CO:326:ILE:HD13	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 [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	AA	502/504 (100%)	478 (95%)	23 (5%)	1 (0%)	47	78
1	AB	502/504 (100%)	483 (96%)	18 (4%)	1 (0%)	47	78
1	AC	502/504 (100%)	480 (96%)	20 (4%)	2 (0%)	34	69
1	AD	502/504 (100%)	482 (96%)	20 (4%)	0	100	100
1	AE	502/504 (100%)	480 (96%)	21 (4%)	1 (0%)	47	78
1	AF	502/504 (100%)	482 (96%)	20 (4%)	0	100	100
1	AG	502/504 (100%)	480 (96%)	18 (4%)	4 (1%)	19	56
1	AH	502/504 (100%)	481 (96%)	19 (4%)	2 (0%)	34	69
1	AI	502/504 (100%)	482 (96%)	19 (4%)	1 (0%)	47	78
1	AJ	502/504 (100%)	480 (96%)	21 (4%)	1 (0%)	47	78
1	AK	502/504 (100%)	482 (96%)	19 (4%)	1 (0%)	47	78
1	AL	502/504 (100%)	482 (96%)	19 (4%)	1 (0%)	47	78
1	AM	502/504 (100%)	480 (96%)	21 (4%)	1 (0%)	47	78
1	AN	502/504 (100%)	481 (96%)	20 (4%)	1 (0%)	47	78
1	AO	502/504 (100%)	483 (96%)	18 (4%)	1 (0%)	47	78
1	AP	502/504 (100%)	483 (96%)	19 (4%)	0	100	100
1	AQ	502/504 (100%)	483 (96%)	18 (4%)	1 (0%)	47	78

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	AR	502/504 (100%)	483 (96%)	18 (4%)	1 (0%)	47	78
1	AS	502/504 (100%)	480 (96%)	21 (4%)	1 (0%)	47	78
1	AT	502/504 (100%)	484 (96%)	17 (3%)	1 (0%)	47	78
1	BA	502/504 (100%)	480 (96%)	21 (4%)	1 (0%)	47	78
1	BB	502/504 (100%)	481 (96%)	19 (4%)	2 (0%)	34	69
1	BC	502/504 (100%)	481 (96%)	20 (4%)	1 (0%)	47	78
1	BD	502/504 (100%)	482 (96%)	19 (4%)	1 (0%)	47	78
1	BE	502/504 (100%)	481 (96%)	20 (4%)	1 (0%)	47	78
1	BF	502/504 (100%)	481 (96%)	19 (4%)	2 (0%)	34	69
1	BG	502/504 (100%)	480 (96%)	21 (4%)	1 (0%)	47	78
1	BH	502/504 (100%)	482 (96%)	19 (4%)	1 (0%)	47	78
1	BI	502/504 (100%)	479 (95%)	23 (5%)	0	100	100
1	BJ	502/504 (100%)	481 (96%)	20 (4%)	1 (0%)	47	78
1	BK	502/504 (100%)	483 (96%)	18 (4%)	1 (0%)	47	78
1	BL	502/504 (100%)	482 (96%)	19 (4%)	1 (0%)	47	78
1	BM	502/504 (100%)	481 (96%)	20 (4%)	1 (0%)	47	78
1	BN	502/504 (100%)	481 (96%)	20 (4%)	1 (0%)	47	78
1	BO	502/504 (100%)	482 (96%)	19 (4%)	1 (0%)	47	78
1	BP	502/504 (100%)	479 (95%)	21 (4%)	2 (0%)	34	69
1	BQ	502/504 (100%)	481 (96%)	20 (4%)	1 (0%)	47	78
1	BR	502/504 (100%)	481 (96%)	20 (4%)	1 (0%)	47	78
1	BS	502/504 (100%)	481 (96%)	20 (4%)	1 (0%)	47	78
1	BT	502/504 (100%)	480 (96%)	21 (4%)	1 (0%)	47	78
1	CA	502/504 (100%)	482 (96%)	19 (4%)	1 (0%)	47	78
1	CB	502/504 (100%)	483 (96%)	18 (4%)	1 (0%)	47	78
1	CC	502/504 (100%)	482 (96%)	19 (4%)	1 (0%)	47	78
1	CD	502/504 (100%)	482 (96%)	19 (4%)	1 (0%)	47	78
1	CE	502/504 (100%)	483 (96%)	18 (4%)	1 (0%)	47	78
1	CF	502/504 (100%)	480 (96%)	21 (4%)	1 (0%)	47	78
1	CG	502/504 (100%)	480 (96%)	21 (4%)	1 (0%)	47	78
1	CH	502/504 (100%)	481 (96%)	21 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	CI	502/504 (100%)	481 (96%)	19 (4%)	2 (0%)	34	69
1	CJ	502/504 (100%)	484 (96%)	17 (3%)	1 (0%)	47	78
1	CK	502/504 (100%)	482 (96%)	19 (4%)	1 (0%)	47	78
1	CL	502/504 (100%)	481 (96%)	20 (4%)	1 (0%)	47	78
1	CM	502/504 (100%)	480 (96%)	20 (4%)	2 (0%)	34	69
1	CN	502/504 (100%)	482 (96%)	20 (4%)	0	100	100
1	CO	502/504 (100%)	481 (96%)	20 (4%)	1 (0%)	47	78
1	CP	502/504 (100%)	480 (96%)	21 (4%)	1 (0%)	47	78
1	CQ	502/504 (100%)	482 (96%)	18 (4%)	2 (0%)	34	69
1	CR	502/504 (100%)	479 (95%)	21 (4%)	2 (0%)	34	69
1	CS	502/504 (100%)	481 (96%)	20 (4%)	1 (0%)	47	78
1	CT	502/504 (100%)	479 (95%)	22 (4%)	1 (0%)	47	78
All	All	30120/30240 (100%)	28873 (96%)	1181 (4%)	66 (0%)	47	78

All (66) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	BP	82	ALA
1	CR	87	VAL
1	AG	273	VAL
1	CI	377	CYS
1	BM	17	ASN
1	AC	78	SER
1	BB	17	ASN
1	BD	17	ASN
1	BF	78	SER
1	CM	17	ASN
1	AG	269	PRO
1	AH	17	ASN
1	BA	498	GLY
1	AG	17	ASN
1	AN	498	GLY
1	AT	498	GLY
1	BG	498	GLY
1	BP	498	GLY
1	BT	498	GLY
1	CF	498	GLY
1	CG	498	GLY

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Mol	Chain	Res	Type
1	CI	78	SER
1	CQ	17	ASN
1	CT	498	GLY
1	AE	498	GLY
1	AQ	498	GLY
1	BF	498	GLY
1	BK	498	GLY
1	BL	498	GLY
1	CK	498	GLY
1	CL	498	GLY
1	CM	498	GLY
1	CO	498	GLY
1	CR	498	GLY
1	AA	498	GLY
1	AG	498	GLY
1	AK	498	GLY
1	AM	498	GLY
1	BC	498	GLY
1	BE	498	GLY
1	BJ	498	GLY
1	BN	498	GLY
1	BO	498	GLY
1	CD	498	GLY
1	AJ	498	GLY
1	AS	498	GLY
1	BH	498	GLY
1	BR	498	GLY
1	BS	498	GLY
1	CB	498	GLY
1	CP	498	GLY
1	CS	498	GLY
1	AH	498	GLY
1	AI	498	GLY
1	AO	498	GLY
1	AR	498	GLY
1	BB	498	GLY
1	CA	498	GLY
1	CE	498	GLY
1	CJ	498	GLY
1	CQ	498	GLY
1	AB	498	GLY
1	AC	498	GLY

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Mol	Chain	Res	Type
1	AL	498	GLY
1	BQ	498	GLY
1	CC	498	GLY

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	AA	430/430 (100%)	407 (95%)	23 (5%)	22	54
1	AB	430/430 (100%)	402 (94%)	28 (6%)	17	48
1	AC	430/430 (100%)	406 (94%)	24 (6%)	21	53
1	AD	430/430 (100%)	404 (94%)	26 (6%)	19	50
1	AE	430/430 (100%)	409 (95%)	21 (5%)	25	56
1	AF	430/430 (100%)	407 (95%)	23 (5%)	22	54
1	AG	430/430 (100%)	403 (94%)	27 (6%)	18	49
1	AH	430/430 (100%)	406 (94%)	24 (6%)	21	53
1	AI	430/430 (100%)	405 (94%)	25 (6%)	20	52
1	AJ	430/430 (100%)	407 (95%)	23 (5%)	22	54
1	AK	430/430 (100%)	404 (94%)	26 (6%)	19	50
1	AL	430/430 (100%)	404 (94%)	26 (6%)	19	50
1	AM	430/430 (100%)	406 (94%)	24 (6%)	21	53
1	AN	430/430 (100%)	406 (94%)	24 (6%)	21	53
1	AO	430/430 (100%)	406 (94%)	24 (6%)	21	53
1	AP	430/430 (100%)	407 (95%)	23 (5%)	22	54
1	AQ	430/430 (100%)	405 (94%)	25 (6%)	20	52
1	AR	430/430 (100%)	406 (94%)	24 (6%)	21	53
1	AS	430/430 (100%)	405 (94%)	25 (6%)	20	52
1	AT	430/430 (100%)	406 (94%)	24 (6%)	21	53
1	BA	430/430 (100%)	407 (95%)	23 (5%)	22	54

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	BB	430/430 (100%)	405 (94%)	25 (6%)	20	52
1	BC	430/430 (100%)	407 (95%)	23 (5%)	22	54
1	BD	430/430 (100%)	407 (95%)	23 (5%)	22	54
1	BE	430/430 (100%)	407 (95%)	23 (5%)	22	54
1	BF	430/430 (100%)	404 (94%)	26 (6%)	19	50
1	BG	430/430 (100%)	408 (95%)	22 (5%)	24	55
1	BH	430/430 (100%)	404 (94%)	26 (6%)	19	50
1	BI	430/430 (100%)	408 (95%)	22 (5%)	24	55
1	BJ	430/430 (100%)	406 (94%)	24 (6%)	21	53
1	BK	430/430 (100%)	404 (94%)	26 (6%)	19	50
1	BL	430/430 (100%)	404 (94%)	26 (6%)	19	50
1	BM	430/430 (100%)	404 (94%)	26 (6%)	19	50
1	BN	430/430 (100%)	405 (94%)	25 (6%)	20	52
1	BO	430/430 (100%)	407 (95%)	23 (5%)	22	54
1	BP	430/430 (100%)	407 (95%)	23 (5%)	22	54
1	BQ	430/430 (100%)	405 (94%)	25 (6%)	20	52
1	BR	430/430 (100%)	407 (95%)	23 (5%)	22	54
1	BS	430/430 (100%)	406 (94%)	24 (6%)	21	53
1	BT	430/430 (100%)	406 (94%)	24 (6%)	21	53
1	CA	430/430 (100%)	407 (95%)	23 (5%)	22	54
1	CB	430/430 (100%)	407 (95%)	23 (5%)	22	54
1	CC	430/430 (100%)	407 (95%)	23 (5%)	22	54
1	CD	430/430 (100%)	406 (94%)	24 (6%)	21	53
1	CE	430/430 (100%)	407 (95%)	23 (5%)	22	54
1	CF	430/430 (100%)	406 (94%)	24 (6%)	21	53
1	CG	430/430 (100%)	409 (95%)	21 (5%)	25	56
1	CH	430/430 (100%)	405 (94%)	25 (6%)	20	52
1	CI	430/430 (100%)	405 (94%)	25 (6%)	20	52
1	CJ	430/430 (100%)	407 (95%)	23 (5%)	22	54
1	CK	430/430 (100%)	406 (94%)	24 (6%)	21	53
1	CL	430/430 (100%)	406 (94%)	24 (6%)	21	53

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	CM	430/430 (100%)	403 (94%)	27 (6%)	18	49
1	CN	430/430 (100%)	407 (95%)	23 (5%)	22	54
1	CO	430/430 (100%)	407 (95%)	23 (5%)	22	54
1	CP	430/430 (100%)	405 (94%)	25 (6%)	20	52
1	CQ	430/430 (100%)	403 (94%)	27 (6%)	18	49
1	CR	430/430 (100%)	404 (94%)	26 (6%)	19	50
1	CS	430/430 (100%)	407 (95%)	23 (5%)	22	54
1	CT	430/430 (100%)	405 (94%)	25 (6%)	20	52
All	All	25800/25800 (100%)	24348 (94%)	1452 (6%)	21	53

All (1452) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	AA	105	SER
1	AA	129	ARG
1	AA	160	THR
1	AA	161	SER
1	AA	163	LEU
1	AA	167	THR
1	AA	182	LEU
1	AA	191	LEU
1	AA	199	SER
1	AA	226	VAL
1	AA	229	MET
1	AA	243	ILE
1	AA	260	MET
1	AA	272	TYR
1	AA	284	ARG
1	AA	289	ARG
1	AA	301	ARG
1	AA	378	ARG
1	AA	384	ASN
1	AA	449	GLU
1	AA	454	ASN
1	AA	475	LEU
1	AA	504	VAL
1	AB	79	ARG
1	AB	105	SER
1	AB	129	ARG

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Mol	Chain	Res	Type
1	AB	160	THR
1	AB	161	SER
1	AB	163	LEU
1	AB	167	THR
1	AB	182	LEU
1	AB	191	LEU
1	AB	199	SER
1	AB	226	VAL
1	AB	243	ILE
1	AB	258	THR
1	AB	261	ASP
1	AB	265	LEU
1	AB	272	TYR
1	AB	284	ARG
1	AB	289	ARG
1	AB	299	SER
1	AB	300	GLN
1	AB	301	ARG
1	AB	336	PRO
1	AB	378	ARG
1	AB	384	ASN
1	AB	449	GLU
1	AB	454	ASN
1	AB	475	LEU
1	AB	504	VAL
1	AC	18	ARG
1	AC	105	SER
1	AC	129	ARG
1	AC	160	THR
1	AC	161	SER
1	AC	163	LEU
1	AC	167	THR
1	AC	182	LEU
1	AC	191	LEU
1	AC	199	SER
1	AC	226	VAL
1	AC	243	ILE
1	AC	260	MET
1	AC	272	TYR
1	AC	284	ARG
1	AC	289	ARG
1	AC	300	GLN

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Mol	Chain	Res	Type
1	AC	301	ARG
1	AC	378	ARG
1	AC	384	ASN
1	AC	449	GLU
1	AC	454	ASN
1	AC	475	LEU
1	AC	504	VAL
1	AD	15	GLN
1	AD	57	PRO
1	AD	79	ARG
1	AD	105	SER
1	AD	129	ARG
1	AD	160	THR
1	AD	161	SER
1	AD	163	LEU
1	AD	167	THR
1	AD	182	LEU
1	AD	191	LEU
1	AD	199	SER
1	AD	226	VAL
1	AD	229	MET
1	AD	243	ILE
1	AD	260	MET
1	AD	272	TYR
1	AD	284	ARG
1	AD	289	ARG
1	AD	301	ARG
1	AD	378	ARG
1	AD	384	ASN
1	AD	449	GLU
1	AD	454	ASN
1	AD	475	LEU
1	AD	504	VAL
1	AE	10	ILE
1	AE	105	SER
1	AE	160	THR
1	AE	161	SER
1	AE	163	LEU
1	AE	167	THR
1	AE	191	LEU
1	AE	199	SER
1	AE	226	VAL

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Mol	Chain	Res	Type
1	AE	243	ILE
1	AE	260	MET
1	AE	272	TYR
1	AE	284	ARG
1	AE	289	ARG
1	AE	301	ARG
1	AE	378	ARG
1	AE	384	ASN
1	AE	449	GLU
1	AE	454	ASN
1	AE	475	LEU
1	AE	504	VAL
1	AF	79	ARG
1	AF	105	SER
1	AF	129	ARG
1	AF	160	THR
1	AF	161	SER
1	AF	163	LEU
1	AF	167	THR
1	AF	182	LEU
1	AF	191	LEU
1	AF	199	SER
1	AF	226	VAL
1	AF	243	ILE
1	AF	260	MET
1	AF	272	TYR
1	AF	284	ARG
1	AF	289	ARG
1	AF	301	ARG
1	AF	378	ARG
1	AF	384	ASN
1	AF	449	GLU
1	AF	454	ASN
1	AF	475	LEU
1	AF	504	VAL
1	AG	10	ILE
1	AG	79	ARG
1	AG	105	SER
1	AG	129	ARG
1	AG	160	THR
1	AG	161	SER
1	AG	163	LEU

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Mol	Chain	Res	Type
1	AG	167	THR
1	AG	182	LEU
1	AG	191	LEU
1	AG	199	SER
1	AG	226	VAL
1	AG	243	ILE
1	AG	258	THR
1	AG	259	THR
1	AG	269	PRO
1	AG	276	ASP
1	AG	284	ARG
1	AG	289	ARG
1	AG	300	GLN
1	AG	301	ARG
1	AG	378	ARG
1	AG	384	ASN
1	AG	449	GLU
1	AG	454	ASN
1	AG	475	LEU
1	AG	504	VAL
1	AH	15	GLN
1	AH	18	ARG
1	AH	105	SER
1	AH	129	ARG
1	AH	160	THR
1	AH	161	SER
1	AH	163	LEU
1	AH	167	THR
1	AH	182	LEU
1	AH	191	LEU
1	AH	199	SER
1	AH	226	VAL
1	AH	243	ILE
1	AH	260	MET
1	AH	272	TYR
1	AH	284	ARG
1	AH	289	ARG
1	AH	300	GLN
1	AH	378	ARG
1	AH	384	ASN
1	AH	449	GLU
1	AH	454	ASN

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Mol	Chain	Res	Type
1	AH	475	LEU
1	AH	504	VAL
1	AI	18	ARG
1	AI	79	ARG
1	AI	105	SER
1	AI	129	ARG
1	AI	160	THR
1	AI	161	SER
1	AI	163	LEU
1	AI	167	THR
1	AI	182	LEU
1	AI	191	LEU
1	AI	199	SER
1	AI	226	VAL
1	AI	243	ILE
1	AI	260	MET
1	AI	272	TYR
1	AI	284	ARG
1	AI	289	ARG
1	AI	300	GLN
1	AI	301	ARG
1	AI	378	ARG
1	AI	384	ASN
1	AI	449	GLU
1	AI	454	ASN
1	AI	475	LEU
1	AI	504	VAL
1	AJ	18	ARG
1	AJ	105	SER
1	AJ	129	ARG
1	AJ	160	THR
1	AJ	161	SER
1	AJ	163	LEU
1	AJ	167	THR
1	AJ	182	LEU
1	AJ	191	LEU
1	AJ	199	SER
1	AJ	226	VAL
1	AJ	229	MET
1	AJ	243	ILE
1	AJ	272	TYR
1	AJ	284	ARG

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Mol	Chain	Res	Type
1	AJ	289	ARG
1	AJ	301	ARG
1	AJ	378	ARG
1	AJ	384	ASN
1	AJ	449	GLU
1	AJ	454	ASN
1	AJ	475	LEU
1	AJ	504	VAL
1	AK	18	ARG
1	AK	105	SER
1	AK	129	ARG
1	AK	160	THR
1	AK	161	SER
1	AK	163	LEU
1	AK	167	THR
1	AK	182	LEU
1	AK	191	LEU
1	AK	199	SER
1	AK	226	VAL
1	AK	229	MET
1	AK	243	ILE
1	AK	260	MET
1	AK	272	TYR
1	AK	284	ARG
1	AK	289	ARG
1	AK	300	GLN
1	AK	301	ARG
1	AK	336	PRO
1	AK	378	ARG
1	AK	384	ASN
1	AK	449	GLU
1	AK	454	ASN
1	AK	475	LEU
1	AK	504	VAL
1	AL	10	ILE
1	AL	57	PRO
1	AL	79	ARG
1	AL	105	SER
1	AL	129	ARG
1	AL	160	THR
1	AL	161	SER
1	AL	163	LEU

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Mol	Chain	Res	Type
1	AL	167	THR
1	AL	182	LEU
1	AL	191	LEU
1	AL	199	SER
1	AL	226	VAL
1	AL	243	ILE
1	AL	260	MET
1	AL	272	TYR
1	AL	284	ARG
1	AL	289	ARG
1	AL	299	SER
1	AL	301	ARG
1	AL	378	ARG
1	AL	384	ASN
1	AL	449	GLU
1	AL	454	ASN
1	AL	475	LEU
1	AL	504	VAL
1	AM	11	PRO
1	AM	18	ARG
1	AM	105	SER
1	AM	129	ARG
1	AM	160	THR
1	AM	161	SER
1	AM	163	LEU
1	AM	167	THR
1	AM	182	LEU
1	AM	191	LEU
1	AM	199	SER
1	AM	226	VAL
1	AM	243	ILE
1	AM	260	MET
1	AM	272	TYR
1	AM	284	ARG
1	AM	289	ARG
1	AM	301	ARG
1	AM	378	ARG
1	AM	384	ASN
1	AM	449	GLU
1	AM	454	ASN
1	AM	475	LEU
1	AM	504	VAL

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Mol	Chain	Res	Type
1	AN	10	ILE
1	AN	79	ARG
1	AN	105	SER
1	AN	129	ARG
1	AN	160	THR
1	AN	161	SER
1	AN	163	LEU
1	AN	167	THR
1	AN	182	LEU
1	AN	191	LEU
1	AN	199	SER
1	AN	226	VAL
1	AN	243	ILE
1	AN	260	MET
1	AN	272	TYR
1	AN	284	ARG
1	AN	289	ARG
1	AN	301	ARG
1	AN	378	ARG
1	AN	384	ASN
1	AN	449	GLU
1	AN	454	ASN
1	AN	475	LEU
1	AN	504	VAL
1	AO	105	SER
1	AO	129	ARG
1	AO	160	THR
1	AO	161	SER
1	AO	163	LEU
1	AO	167	THR
1	AO	182	LEU
1	AO	191	LEU
1	AO	199	SER
1	AO	226	VAL
1	AO	243	ILE
1	AO	260	MET
1	AO	272	TYR
1	AO	284	ARG
1	AO	290	THR
1	AO	294	LEU
1	AO	300	GLN
1	AO	301	ARG

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Mol	Chain	Res	Type
1	AO	378	ARG
1	AO	384	ASN
1	AO	449	GLU
1	AO	454	ASN
1	AO	475	LEU
1	AO	504	VAL
1	AP	79	ARG
1	AP	105	SER
1	AP	129	ARG
1	AP	160	THR
1	AP	161	SER
1	AP	163	LEU
1	AP	167	THR
1	AP	182	LEU
1	AP	191	LEU
1	AP	199	SER
1	AP	226	VAL
1	AP	243	ILE
1	AP	260	MET
1	AP	272	TYR
1	AP	284	ARG
1	AP	289	ARG
1	AP	301	ARG
1	AP	378	ARG
1	AP	384	ASN
1	AP	449	GLU
1	AP	454	ASN
1	AP	475	LEU
1	AP	504	VAL
1	AQ	10	ILE
1	AQ	105	SER
1	AQ	129	ARG
1	AQ	160	THR
1	AQ	161	SER
1	AQ	163	LEU
1	AQ	167	THR
1	AQ	182	LEU
1	AQ	191	LEU
1	AQ	199	SER
1	AQ	226	VAL
1	AQ	243	ILE
1	AQ	260	MET

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Mol	Chain	Res	Type
1	AQ	272	TYR
1	AQ	284	ARG
1	AQ	285	SER
1	AQ	289	ARG
1	AQ	301	ARG
1	AQ	336	PRO
1	AQ	378	ARG
1	AQ	384	ASN
1	AQ	449	GLU
1	AQ	454	ASN
1	AQ	475	LEU
1	AQ	504	VAL
1	AR	75	ARG
1	AR	105	SER
1	AR	129	ARG
1	AR	160	THR
1	AR	161	SER
1	AR	163	LEU
1	AR	167	THR
1	AR	182	LEU
1	AR	191	LEU
1	AR	199	SER
1	AR	226	VAL
1	AR	243	ILE
1	AR	260	MET
1	AR	272	TYR
1	AR	284	ARG
1	AR	289	ARG
1	AR	300	GLN
1	AR	301	ARG
1	AR	378	ARG
1	AR	384	ASN
1	AR	449	GLU
1	AR	454	ASN
1	AR	475	LEU
1	AR	504	VAL
1	AS	10	ILE
1	AS	105	SER
1	AS	129	ARG
1	AS	160	THR
1	AS	161	SER
1	AS	163	LEU

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Mol	Chain	Res	Type
1	AS	167	THR
1	AS	182	LEU
1	AS	191	LEU
1	AS	199	SER
1	AS	226	VAL
1	AS	229	MET
1	AS	243	ILE
1	AS	260	MET
1	AS	272	TYR
1	AS	284	ARG
1	AS	289	ARG
1	AS	301	ARG
1	AS	305	SER
1	AS	378	ARG
1	AS	384	ASN
1	AS	449	GLU
1	AS	454	ASN
1	AS	475	LEU
1	AS	504	VAL
1	AT	105	SER
1	AT	129	ARG
1	AT	160	THR
1	AT	161	SER
1	AT	163	LEU
1	AT	167	THR
1	AT	182	LEU
1	AT	191	LEU
1	AT	199	SER
1	AT	226	VAL
1	AT	229	MET
1	AT	243	ILE
1	AT	260	MET
1	AT	272	TYR
1	AT	284	ARG
1	AT	289	ARG
1	AT	300	GLN
1	AT	301	ARG
1	AT	378	ARG
1	AT	384	ASN
1	AT	449	GLU
1	AT	454	ASN
1	AT	475	LEU

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Mol	Chain	Res	Type
1	AT	504	VAL
1	BA	79	ARG
1	BA	105	SER
1	BA	129	ARG
1	BA	160	THR
1	BA	161	SER
1	BA	163	LEU
1	BA	167	THR
1	BA	182	LEU
1	BA	191	LEU
1	BA	199	SER
1	BA	226	VAL
1	BA	243	ILE
1	BA	260	MET
1	BA	272	TYR
1	BA	284	ARG
1	BA	289	ARG
1	BA	301	ARG
1	BA	378	ARG
1	BA	384	ASN
1	BA	449	GLU
1	BA	454	ASN
1	BA	475	LEU
1	BA	504	VAL
1	BB	79	ARG
1	BB	105	SER
1	BB	129	ARG
1	BB	160	THR
1	BB	161	SER
1	BB	163	LEU
1	BB	167	THR
1	BB	182	LEU
1	BB	191	LEU
1	BB	199	SER
1	BB	226	VAL
1	BB	243	ILE
1	BB	260	MET
1	BB	272	TYR
1	BB	284	ARG
1	BB	289	ARG
1	BB	300	GLN
1	BB	301	ARG

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Mol	Chain	Res	Type
1	BB	336	PRO
1	BB	378	ARG
1	BB	384	ASN
1	BB	449	GLU
1	BB	454	ASN
1	BB	475	LEU
1	BB	504	VAL
1	BC	18	ARG
1	BC	105	SER
1	BC	129	ARG
1	BC	160	THR
1	BC	161	SER
1	BC	163	LEU
1	BC	167	THR
1	BC	182	LEU
1	BC	191	LEU
1	BC	199	SER
1	BC	226	VAL
1	BC	243	ILE
1	BC	260	MET
1	BC	272	TYR
1	BC	284	ARG
1	BC	289	ARG
1	BC	301	ARG
1	BC	378	ARG
1	BC	384	ASN
1	BC	449	GLU
1	BC	454	ASN
1	BC	475	LEU
1	BC	504	VAL
1	BD	105	SER
1	BD	129	ARG
1	BD	160	THR
1	BD	161	SER
1	BD	163	LEU
1	BD	167	THR
1	BD	182	LEU
1	BD	191	LEU
1	BD	199	SER
1	BD	226	VAL
1	BD	243	ILE
1	BD	260	MET

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Mol	Chain	Res	Type
1	BD	272	TYR
1	BD	284	ARG
1	BD	289	ARG
1	BD	300	GLN
1	BD	301	ARG
1	BD	378	ARG
1	BD	384	ASN
1	BD	449	GLU
1	BD	454	ASN
1	BD	475	LEU
1	BD	504	VAL
1	BE	105	SER
1	BE	129	ARG
1	BE	160	THR
1	BE	161	SER
1	BE	163	LEU
1	BE	167	THR
1	BE	182	LEU
1	BE	191	LEU
1	BE	199	SER
1	BE	226	VAL
1	BE	243	ILE
1	BE	260	MET
1	BE	272	TYR
1	BE	284	ARG
1	BE	289	ARG
1	BE	300	GLN
1	BE	301	ARG
1	BE	378	ARG
1	BE	384	ASN
1	BE	449	GLU
1	BE	454	ASN
1	BE	475	LEU
1	BE	504	VAL
1	BF	10	ILE
1	BF	18	ARG
1	BF	79	ARG
1	BF	105	SER
1	BF	129	ARG
1	BF	160	THR
1	BF	161	SER
1	BF	163	LEU

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Mol	Chain	Res	Type
1	BF	167	THR
1	BF	182	LEU
1	BF	191	LEU
1	BF	199	SER
1	BF	226	VAL
1	BF	243	ILE
1	BF	260	MET
1	BF	272	TYR
1	BF	284	ARG
1	BF	289	ARG
1	BF	299	SER
1	BF	301	ARG
1	BF	378	ARG
1	BF	384	ASN
1	BF	449	GLU
1	BF	454	ASN
1	BF	475	LEU
1	BF	504	VAL
1	BG	105	SER
1	BG	129	ARG
1	BG	160	THR
1	BG	161	SER
1	BG	163	LEU
1	BG	167	THR
1	BG	182	LEU
1	BG	191	LEU
1	BG	199	SER
1	BG	226	VAL
1	BG	229	MET
1	BG	243	ILE
1	BG	260	MET
1	BG	272	TYR
1	BG	284	ARG
1	BG	289	ARG
1	BG	301	ARG
1	BG	378	ARG
1	BG	384	ASN
1	BG	454	ASN
1	BG	475	LEU
1	BG	504	VAL
1	BH	15	GLN
1	BH	18	ARG

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Mol	Chain	Res	Type
1	BH	105	SER
1	BH	129	ARG
1	BH	160	THR
1	BH	161	SER
1	BH	163	LEU
1	BH	167	THR
1	BH	182	LEU
1	BH	191	LEU
1	BH	199	SER
1	BH	226	VAL
1	BH	229	MET
1	BH	243	ILE
1	BH	260	MET
1	BH	272	TYR
1	BH	284	ARG
1	BH	289	ARG
1	BH	301	ARG
1	BH	305	SER
1	BH	378	ARG
1	BH	384	ASN
1	BH	449	GLU
1	BH	454	ASN
1	BH	475	LEU
1	BH	504	VAL
1	BI	105	SER
1	BI	129	ARG
1	BI	160	THR
1	BI	161	SER
1	BI	163	LEU
1	BI	167	THR
1	BI	182	LEU
1	BI	191	LEU
1	BI	199	SER
1	BI	226	VAL
1	BI	243	ILE
1	BI	260	MET
1	BI	272	TYR
1	BI	284	ARG
1	BI	289	ARG
1	BI	301	ARG
1	BI	378	ARG
1	BI	384	ASN

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Mol	Chain	Res	Type
1	BI	449	GLU
1	BI	454	ASN
1	BI	475	LEU
1	BI	504	VAL
1	BJ	18	ARG
1	BJ	79	ARG
1	BJ	105	SER
1	BJ	129	ARG
1	BJ	160	THR
1	BJ	161	SER
1	BJ	163	LEU
1	BJ	167	THR
1	BJ	182	LEU
1	BJ	191	LEU
1	BJ	199	SER
1	BJ	226	VAL
1	BJ	243	ILE
1	BJ	260	MET
1	BJ	272	TYR
1	BJ	284	ARG
1	BJ	289	ARG
1	BJ	301	ARG
1	BJ	378	ARG
1	BJ	384	ASN
1	BJ	449	GLU
1	BJ	454	ASN
1	BJ	475	LEU
1	BJ	504	VAL
1	BK	18	ARG
1	BK	105	SER
1	BK	129	ARG
1	BK	160	THR
1	BK	161	SER
1	BK	163	LEU
1	BK	167	THR
1	BK	182	LEU
1	BK	191	LEU
1	BK	199	SER
1	BK	226	VAL
1	BK	229	MET
1	BK	243	ILE
1	BK	260	MET

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Mol	Chain	Res	Type
1	BK	272	TYR
1	BK	284	ARG
1	BK	289	ARG
1	BK	299	SER
1	BK	300	GLN
1	BK	301	ARG
1	BK	378	ARG
1	BK	384	ASN
1	BK	449	GLU
1	BK	454	ASN
1	BK	475	LEU
1	BK	504	VAL
1	BL	79	ARG
1	BL	105	SER
1	BL	129	ARG
1	BL	160	THR
1	BL	161	SER
1	BL	163	LEU
1	BL	167	THR
1	BL	182	LEU
1	BL	191	LEU
1	BL	199	SER
1	BL	226	VAL
1	BL	229	MET
1	BL	243	ILE
1	BL	260	MET
1	BL	272	TYR
1	BL	284	ARG
1	BL	289	ARG
1	BL	299	SER
1	BL	300	GLN
1	BL	301	ARG
1	BL	378	ARG
1	BL	384	ASN
1	BL	449	GLU
1	BL	454	ASN
1	BL	475	LEU
1	BL	504	VAL
1	BM	18	ARG
1	BM	57	PRO
1	BM	79	ARG
1	BM	105	SER

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Mol	Chain	Res	Type
1	BM	129	ARG
1	BM	160	THR
1	BM	161	SER
1	BM	163	LEU
1	BM	167	THR
1	BM	182	LEU
1	BM	191	LEU
1	BM	199	SER
1	BM	226	VAL
1	BM	243	ILE
1	BM	260	MET
1	BM	272	TYR
1	BM	284	ARG
1	BM	289	ARG
1	BM	300	GLN
1	BM	301	ARG
1	BM	378	ARG
1	BM	384	ASN
1	BM	449	GLU
1	BM	454	ASN
1	BM	475	LEU
1	BM	504	VAL
1	BN	18	ARG
1	BN	105	SER
1	BN	129	ARG
1	BN	160	THR
1	BN	161	SER
1	BN	163	LEU
1	BN	167	THR
1	BN	182	LEU
1	BN	191	LEU
1	BN	199	SER
1	BN	226	VAL
1	BN	229	MET
1	BN	243	ILE
1	BN	260	MET
1	BN	272	TYR
1	BN	284	ARG
1	BN	285	SER
1	BN	289	ARG
1	BN	301	ARG
1	BN	378	ARG

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Mol	Chain	Res	Type
1	BN	384	ASN
1	BN	449	GLU
1	BN	454	ASN
1	BN	475	LEU
1	BN	504	VAL
1	BO	15	GLN
1	BO	105	SER
1	BO	129	ARG
1	BO	160	THR
1	BO	161	SER
1	BO	163	LEU
1	BO	167	THR
1	BO	182	LEU
1	BO	191	LEU
1	BO	199	SER
1	BO	226	VAL
1	BO	243	ILE
1	BO	260	MET
1	BO	284	ARG
1	BO	289	ARG
1	BO	301	ARG
1	BO	336	PRO
1	BO	378	ARG
1	BO	384	ASN
1	BO	449	GLU
1	BO	454	ASN
1	BO	475	LEU
1	BO	504	VAL
1	BP	79	ARG
1	BP	105	SER
1	BP	160	THR
1	BP	161	SER
1	BP	163	LEU
1	BP	167	THR
1	BP	182	LEU
1	BP	191	LEU
1	BP	199	SER
1	BP	226	VAL
1	BP	243	ILE
1	BP	260	MET
1	BP	272	TYR
1	BP	284	ARG

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Mol	Chain	Res	Type
1	BP	289	ARG
1	BP	300	GLN
1	BP	301	ARG
1	BP	378	ARG
1	BP	384	ASN
1	BP	449	GLU
1	BP	454	ASN
1	BP	475	LEU
1	BP	504	VAL
1	BQ	18	ARG
1	BQ	105	SER
1	BQ	129	ARG
1	BQ	160	THR
1	BQ	161	SER
1	BQ	163	LEU
1	BQ	167	THR
1	BQ	182	LEU
1	BQ	191	LEU
1	BQ	199	SER
1	BQ	226	VAL
1	BQ	229	MET
1	BQ	243	ILE
1	BQ	260	MET
1	BQ	272	TYR
1	BQ	284	ARG
1	BQ	289	ARG
1	BQ	301	ARG
1	BQ	378	ARG
1	BQ	384	ASN
1	BQ	404	LEU
1	BQ	449	GLU
1	BQ	454	ASN
1	BQ	475	LEU
1	BQ	504	VAL
1	BR	79	ARG
1	BR	105	SER
1	BR	160	THR
1	BR	161	SER
1	BR	163	LEU
1	BR	167	THR
1	BR	182	LEU
1	BR	191	LEU

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Mol	Chain	Res	Type
1	BR	199	SER
1	BR	226	VAL
1	BR	243	ILE
1	BR	260	MET
1	BR	272	TYR
1	BR	284	ARG
1	BR	289	ARG
1	BR	299	SER
1	BR	301	ARG
1	BR	378	ARG
1	BR	384	ASN
1	BR	449	GLU
1	BR	454	ASN
1	BR	475	LEU
1	BR	504	VAL
1	BS	79	ARG
1	BS	105	SER
1	BS	129	ARG
1	BS	160	THR
1	BS	161	SER
1	BS	163	LEU
1	BS	167	THR
1	BS	182	LEU
1	BS	191	LEU
1	BS	199	SER
1	BS	226	VAL
1	BS	243	ILE
1	BS	260	MET
1	BS	284	ARG
1	BS	289	ARG
1	BS	299	SER
1	BS	301	ARG
1	BS	336	PRO
1	BS	378	ARG
1	BS	384	ASN
1	BS	449	GLU
1	BS	454	ASN
1	BS	475	LEU
1	BS	504	VAL
1	BT	105	SER
1	BT	129	ARG
1	BT	160	THR

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Mol	Chain	Res	Type
1	BT	161	SER
1	BT	163	LEU
1	BT	167	THR
1	BT	182	LEU
1	BT	191	LEU
1	BT	199	SER
1	BT	226	VAL
1	BT	243	ILE
1	BT	260	MET
1	BT	272	TYR
1	BT	284	ARG
1	BT	289	ARG
1	BT	299	SER
1	BT	300	GLN
1	BT	301	ARG
1	BT	378	ARG
1	BT	384	ASN
1	BT	449	GLU
1	BT	454	ASN
1	BT	475	LEU
1	BT	504	VAL
1	CA	10	ILE
1	CA	18	ARG
1	CA	105	SER
1	CA	129	ARG
1	CA	160	THR
1	CA	161	SER
1	CA	163	LEU
1	CA	167	THR
1	CA	182	LEU
1	CA	191	LEU
1	CA	226	VAL
1	CA	243	ILE
1	CA	260	MET
1	CA	272	TYR
1	CA	284	ARG
1	CA	289	ARG
1	CA	301	ARG
1	CA	378	ARG
1	CA	384	ASN
1	CA	449	GLU
1	CA	454	ASN

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Mol	Chain	Res	Type
1	CA	475	LEU
1	CA	504	VAL
1	CB	105	SER
1	CB	129	ARG
1	CB	160	THR
1	CB	161	SER
1	CB	163	LEU
1	CB	167	THR
1	CB	182	LEU
1	CB	191	LEU
1	CB	199	SER
1	CB	226	VAL
1	CB	243	ILE
1	CB	260	MET
1	CB	272	TYR
1	CB	284	ARG
1	CB	289	ARG
1	CB	300	GLN
1	CB	301	ARG
1	CB	378	ARG
1	CB	384	ASN
1	CB	449	GLU
1	CB	454	ASN
1	CB	475	LEU
1	CB	504	VAL
1	CC	105	SER
1	CC	129	ARG
1	CC	160	THR
1	CC	161	SER
1	CC	163	LEU
1	CC	167	THR
1	CC	182	LEU
1	CC	191	LEU
1	CC	199	SER
1	CC	226	VAL
1	CC	243	ILE
1	CC	260	MET
1	CC	272	TYR
1	CC	284	ARG
1	CC	289	ARG
1	CC	300	GLN
1	CC	301	ARG

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Mol	Chain	Res	Type
1	CC	378	ARG
1	CC	384	ASN
1	CC	449	GLU
1	CC	454	ASN
1	CC	475	LEU
1	CC	504	VAL
1	CD	79	ARG
1	CD	105	SER
1	CD	129	ARG
1	CD	160	THR
1	CD	161	SER
1	CD	163	LEU
1	CD	167	THR
1	CD	182	LEU
1	CD	191	LEU
1	CD	199	SER
1	CD	226	VAL
1	CD	229	MET
1	CD	243	ILE
1	CD	260	MET
1	CD	272	TYR
1	CD	284	ARG
1	CD	289	ARG
1	CD	301	ARG
1	CD	378	ARG
1	CD	384	ASN
1	CD	449	GLU
1	CD	454	ASN
1	CD	475	LEU
1	CD	504	VAL
1	CE	79	ARG
1	CE	105	SER
1	CE	129	ARG
1	CE	160	THR
1	CE	161	SER
1	CE	163	LEU
1	CE	167	THR
1	CE	182	LEU
1	CE	191	LEU
1	CE	199	SER
1	CE	226	VAL
1	CE	243	ILE

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Mol	Chain	Res	Type
1	CE	260	MET
1	CE	272	TYR
1	CE	284	ARG
1	CE	289	ARG
1	CE	301	ARG
1	CE	378	ARG
1	CE	384	ASN
1	CE	449	GLU
1	CE	454	ASN
1	CE	475	LEU
1	CE	504	VAL
1	CF	79	ARG
1	CF	105	SER
1	CF	129	ARG
1	CF	160	THR
1	CF	161	SER
1	CF	163	LEU
1	CF	167	THR
1	CF	182	LEU
1	CF	191	LEU
1	CF	199	SER
1	CF	226	VAL
1	CF	243	ILE
1	CF	260	MET
1	CF	272	TYR
1	CF	284	ARG
1	CF	289	ARG
1	CF	300	GLN
1	CF	301	ARG
1	CF	378	ARG
1	CF	384	ASN
1	CF	449	GLU
1	CF	454	ASN
1	CF	475	LEU
1	CF	504	VAL
1	CG	79	ARG
1	CG	105	SER
1	CG	129	ARG
1	CG	160	THR
1	CG	161	SER
1	CG	163	LEU
1	CG	167	THR

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Mol	Chain	Res	Type
1	CG	191	LEU
1	CG	199	SER
1	CG	226	VAL
1	CG	243	ILE
1	CG	260	MET
1	CG	272	TYR
1	CG	284	ARG
1	CG	289	ARG
1	CG	301	ARG
1	CG	378	ARG
1	CG	384	ASN
1	CG	454	ASN
1	CG	475	LEU
1	CG	504	VAL
1	CH	10	ILE
1	CH	15	GLN
1	CH	105	SER
1	CH	129	ARG
1	CH	160	THR
1	CH	161	SER
1	CH	163	LEU
1	CH	167	THR
1	CH	182	LEU
1	CH	191	LEU
1	CH	199	SER
1	CH	226	VAL
1	CH	229	MET
1	CH	243	ILE
1	CH	260	MET
1	CH	272	TYR
1	CH	284	ARG
1	CH	289	ARG
1	CH	301	ARG
1	CH	378	ARG
1	CH	384	ASN
1	CH	449	GLU
1	CH	454	ASN
1	CH	475	LEU
1	CH	504	VAL
1	CI	79	ARG
1	CI	105	SER
1	CI	129	ARG

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Mol	Chain	Res	Type
1	CI	160	THR
1	CI	161	SER
1	CI	163	LEU
1	CI	167	THR
1	CI	182	LEU
1	CI	191	LEU
1	CI	199	SER
1	CI	226	VAL
1	CI	243	ILE
1	CI	260	MET
1	CI	272	TYR
1	CI	284	ARG
1	CI	289	ARG
1	CI	299	SER
1	CI	300	GLN
1	CI	301	ARG
1	CI	377	CYS
1	CI	384	ASN
1	CI	449	GLU
1	CI	454	ASN
1	CI	475	LEU
1	CI	504	VAL
1	CJ	18	ARG
1	CJ	105	SER
1	CJ	129	ARG
1	CJ	160	THR
1	CJ	161	SER
1	CJ	163	LEU
1	CJ	182	LEU
1	CJ	191	LEU
1	CJ	199	SER
1	CJ	226	VAL
1	CJ	243	ILE
1	CJ	260	MET
1	CJ	272	TYR
1	CJ	284	ARG
1	CJ	289	ARG
1	CJ	300	GLN
1	CJ	301	ARG
1	CJ	378	ARG
1	CJ	384	ASN
1	CJ	449	GLU

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Mol	Chain	Res	Type
1	CJ	454	ASN
1	CJ	475	LEU
1	CJ	504	VAL
1	CK	18	ARG
1	CK	77	THR
1	CK	105	SER
1	CK	129	ARG
1	CK	160	THR
1	CK	161	SER
1	CK	163	LEU
1	CK	167	THR
1	CK	182	LEU
1	CK	191	LEU
1	CK	199	SER
1	CK	226	VAL
1	CK	243	ILE
1	CK	260	MET
1	CK	272	TYR
1	CK	284	ARG
1	CK	289	ARG
1	CK	301	ARG
1	CK	378	ARG
1	CK	384	ASN
1	CK	449	GLU
1	CK	454	ASN
1	CK	475	LEU
1	CK	504	VAL
1	CL	105	SER
1	CL	129	ARG
1	CL	160	THR
1	CL	161	SER
1	CL	163	LEU
1	CL	167	THR
1	CL	182	LEU
1	CL	191	LEU
1	CL	199	SER
1	CL	226	VAL
1	CL	229	MET
1	CL	243	ILE
1	CL	260	MET
1	CL	272	TYR
1	CL	284	ARG

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Mol	Chain	Res	Type
1	CL	289	ARG
1	CL	299	SER
1	CL	301	ARG
1	CL	378	ARG
1	CL	384	ASN
1	CL	449	GLU
1	CL	454	ASN
1	CL	475	LEU
1	CL	504	VAL
1	CM	10	ILE
1	CM	18	ARG
1	CM	57	PRO
1	CM	79	ARG
1	CM	105	SER
1	CM	129	ARG
1	CM	160	THR
1	CM	161	SER
1	CM	163	LEU
1	CM	167	THR
1	CM	182	LEU
1	CM	191	LEU
1	CM	199	SER
1	CM	226	VAL
1	CM	243	ILE
1	CM	260	MET
1	CM	272	TYR
1	CM	284	ARG
1	CM	289	ARG
1	CM	299	SER
1	CM	301	ARG
1	CM	378	ARG
1	CM	384	ASN
1	CM	449	GLU
1	CM	454	ASN
1	CM	475	LEU
1	CM	504	VAL
1	CN	105	SER
1	CN	160	THR
1	CN	161	SER
1	CN	163	LEU
1	CN	167	THR
1	CN	182	LEU

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Mol	Chain	Res	Type
1	CN	191	LEU
1	CN	199	SER
1	CN	226	VAL
1	CN	229	MET
1	CN	243	ILE
1	CN	260	MET
1	CN	272	TYR
1	CN	284	ARG
1	CN	289	ARG
1	CN	301	ARG
1	CN	336	PRO
1	CN	378	ARG
1	CN	384	ASN
1	CN	449	GLU
1	CN	454	ASN
1	CN	475	LEU
1	CN	504	VAL
1	CO	57	PRO
1	CO	79	ARG
1	CO	105	SER
1	CO	160	THR
1	CO	161	SER
1	CO	163	LEU
1	CO	167	THR
1	CO	191	LEU
1	CO	199	SER
1	CO	226	VAL
1	CO	243	ILE
1	CO	260	MET
1	CO	272	TYR
1	CO	284	ARG
1	CO	289	ARG
1	CO	301	ARG
1	CO	336	PRO
1	CO	378	ARG
1	CO	384	ASN
1	CO	449	GLU
1	CO	454	ASN
1	CO	475	LEU
1	CO	504	VAL
1	CP	10	ILE
1	CP	79	ARG

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Mol	Chain	Res	Type
1	CP	105	SER
1	CP	129	ARG
1	CP	160	THR
1	CP	161	SER
1	CP	163	LEU
1	CP	167	THR
1	CP	182	LEU
1	CP	191	LEU
1	CP	199	SER
1	CP	226	VAL
1	CP	243	ILE
1	CP	260	MET
1	CP	272	TYR
1	CP	284	ARG
1	CP	289	ARG
1	CP	300	GLN
1	CP	301	ARG
1	CP	378	ARG
1	CP	384	ASN
1	CP	449	GLU
1	CP	454	ASN
1	CP	475	LEU
1	CP	504	VAL
1	CQ	18	ARG
1	CQ	57	PRO
1	CQ	105	SER
1	CQ	129	ARG
1	CQ	160	THR
1	CQ	161	SER
1	CQ	163	LEU
1	CQ	167	THR
1	CQ	182	LEU
1	CQ	191	LEU
1	CQ	199	SER
1	CQ	226	VAL
1	CQ	229	MET
1	CQ	243	ILE
1	CQ	260	MET
1	CQ	272	TYR
1	CQ	284	ARG
1	CQ	289	ARG
1	CQ	300	GLN

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Mol	Chain	Res	Type
1	CQ	301	ARG
1	CQ	336	PRO
1	CQ	378	ARG
1	CQ	384	ASN
1	CQ	449	GLU
1	CQ	454	ASN
1	CQ	475	LEU
1	CQ	504	VAL
1	CR	78	SER
1	CR	79	ARG
1	CR	85	ASP
1	CR	105	SER
1	CR	160	THR
1	CR	161	SER
1	CR	163	LEU
1	CR	167	THR
1	CR	182	LEU
1	CR	191	LEU
1	CR	199	SER
1	CR	226	VAL
1	CR	229	MET
1	CR	243	ILE
1	CR	260	MET
1	CR	272	TYR
1	CR	284	ARG
1	CR	289	ARG
1	CR	299	SER
1	CR	301	ARG
1	CR	378	ARG
1	CR	384	ASN
1	CR	449	GLU
1	CR	454	ASN
1	CR	475	LEU
1	CR	504	VAL
1	CS	105	SER
1	CS	160	THR
1	CS	161	SER
1	CS	163	LEU
1	CS	167	THR
1	CS	182	LEU
1	CS	191	LEU
1	CS	199	SER

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Mol	Chain	Res	Type
1	CS	226	VAL
1	CS	229	MET
1	CS	243	ILE
1	CS	260	MET
1	CS	272	TYR
1	CS	284	ARG
1	CS	289	ARG
1	CS	299	SER
1	CS	301	ARG
1	CS	378	ARG
1	CS	384	ASN
1	CS	449	GLU
1	CS	454	ASN
1	CS	475	LEU
1	CS	504	VAL
1	CT	105	SER
1	CT	129	ARG
1	CT	160	THR
1	CT	161	SER
1	CT	163	LEU
1	CT	167	THR
1	CT	182	LEU
1	CT	191	LEU
1	CT	199	SER
1	CT	226	VAL
1	CT	229	MET
1	CT	243	ILE
1	CT	260	MET
1	CT	272	TYR
1	CT	284	ARG
1	CT	289	ARG
1	CT	299	SER
1	CT	301	ARG
1	CT	336	PRO
1	CT	378	ARG
1	CT	384	ASN
1	CT	449	GLU
1	CT	454	ASN
1	CT	475	LEU
1	CT	504	VAL

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (653) such sidechains are listed below:

Mol	Chain	Res	Type
1	AA	36	GLN
1	AA	74	ASN
1	AA	131	HIS
1	AA	138	ASN
1	AA	238	HIS
1	AA	256	ASN
1	AA	263	ASN
1	AA	288	HIS
1	AA	300	GLN
1	AA	454	ASN
1	AB	36	GLN
1	AB	74	ASN
1	AB	131	HIS
1	AB	138	ASN
1	AB	147	GLN
1	AB	238	HIS
1	AB	256	ASN
1	AB	263	ASN
1	AB	288	HIS
1	AB	300	GLN
1	AB	454	ASN
1	AC	36	GLN
1	AC	74	ASN
1	AC	131	HIS
1	AC	138	ASN
1	AC	238	HIS
1	AC	256	ASN
1	AC	263	ASN
1	AC	288	HIS
1	AC	300	GLN
1	AC	437	HIS
1	AC	454	ASN
1	AD	36	GLN
1	AD	74	ASN
1	AD	131	HIS
1	AD	138	ASN
1	AD	147	GLN
1	AD	238	HIS
1	AD	256	ASN
1	AD	263	ASN
1	AD	288	HIS
1	AD	454	ASN
1	AE	36	GLN

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Mol	Chain	Res	Type
1	AE	74	ASN
1	AE	131	HIS
1	AE	138	ASN
1	AE	147	GLN
1	AE	238	HIS
1	AE	256	ASN
1	AE	263	ASN
1	AE	288	HIS
1	AE	454	ASN
1	AF	15	GLN
1	AF	36	GLN
1	AF	74	ASN
1	AF	131	HIS
1	AF	138	ASN
1	AF	147	GLN
1	AF	238	HIS
1	AF	256	ASN
1	AF	263	ASN
1	AF	288	HIS
1	AF	300	GLN
1	AF	437	HIS
1	AF	454	ASN
1	AG	15	GLN
1	AG	36	GLN
1	AG	74	ASN
1	AG	131	HIS
1	AG	138	ASN
1	AG	147	GLN
1	AG	238	HIS
1	AG	256	ASN
1	AG	288	HIS
1	AG	300	GLN
1	AG	454	ASN
1	AH	15	GLN
1	AH	36	GLN
1	AH	74	ASN
1	AH	131	HIS
1	AH	138	ASN
1	AH	238	HIS
1	AH	256	ASN
1	AH	263	ASN
1	AH	288	HIS

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Mol	Chain	Res	Type
1	AH	300	GLN
1	AH	454	ASN
1	AI	36	GLN
1	AI	74	ASN
1	AI	131	HIS
1	AI	138	ASN
1	AI	147	GLN
1	AI	238	HIS
1	AI	256	ASN
1	AI	263	ASN
1	AI	288	HIS
1	AI	300	GLN
1	AI	437	HIS
1	AI	454	ASN
1	AJ	15	GLN
1	AJ	36	GLN
1	AJ	74	ASN
1	AJ	131	HIS
1	AJ	138	ASN
1	AJ	147	GLN
1	AJ	238	HIS
1	AJ	256	ASN
1	AJ	263	ASN
1	AJ	288	HIS
1	AJ	454	ASN
1	AK	36	GLN
1	AK	74	ASN
1	AK	131	HIS
1	AK	138	ASN
1	AK	147	GLN
1	AK	238	HIS
1	AK	256	ASN
1	AK	263	ASN
1	AK	288	HIS
1	AK	300	GLN
1	AK	454	ASN
1	AL	36	GLN
1	AL	74	ASN
1	AL	131	HIS
1	AL	138	ASN
1	AL	147	GLN
1	AL	238	HIS

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Mol	Chain	Res	Type
1	AL	256	ASN
1	AL	263	ASN
1	AL	288	HIS
1	AL	454	ASN
1	AM	36	GLN
1	AM	74	ASN
1	AM	131	HIS
1	AM	138	ASN
1	AM	238	HIS
1	AM	256	ASN
1	AM	263	ASN
1	AM	288	HIS
1	AM	454	ASN
1	AN	36	GLN
1	AN	74	ASN
1	AN	131	HIS
1	AN	138	ASN
1	AN	238	HIS
1	AN	256	ASN
1	AN	263	ASN
1	AN	288	HIS
1	AN	300	GLN
1	AN	437	HIS
1	AN	454	ASN
1	AO	36	GLN
1	AO	74	ASN
1	AO	131	HIS
1	AO	138	ASN
1	AO	238	HIS
1	AO	256	ASN
1	AO	263	ASN
1	AO	288	HIS
1	AO	300	GLN
1	AO	454	ASN
1	AP	36	GLN
1	AP	74	ASN
1	AP	131	HIS
1	AP	138	ASN
1	AP	147	GLN
1	AP	238	HIS
1	AP	256	ASN
1	AP	263	ASN

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Mol	Chain	Res	Type
1	AP	288	HIS
1	AP	300	GLN
1	AP	437	HIS
1	AP	454	ASN
1	AQ	36	GLN
1	AQ	74	ASN
1	AQ	131	HIS
1	AQ	138	ASN
1	AQ	238	HIS
1	AQ	256	ASN
1	AQ	263	ASN
1	AQ	288	HIS
1	AQ	300	GLN
1	AQ	454	ASN
1	AR	36	GLN
1	AR	74	ASN
1	AR	131	HIS
1	AR	138	ASN
1	AR	147	GLN
1	AR	238	HIS
1	AR	256	ASN
1	AR	263	ASN
1	AR	288	HIS
1	AR	300	GLN
1	AR	437	HIS
1	AR	454	ASN
1	AS	36	GLN
1	AS	74	ASN
1	AS	131	HIS
1	AS	138	ASN
1	AS	147	GLN
1	AS	238	HIS
1	AS	256	ASN
1	AS	263	ASN
1	AS	288	HIS
1	AS	300	GLN
1	AS	437	HIS
1	AS	454	ASN
1	AT	36	GLN
1	AT	74	ASN
1	AT	131	HIS
1	AT	138	ASN

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Mol	Chain	Res	Type
1	AT	147	GLN
1	AT	238	HIS
1	AT	256	ASN
1	AT	263	ASN
1	AT	288	HIS
1	AT	300	GLN
1	AT	454	ASN
1	BA	36	GLN
1	BA	74	ASN
1	BA	131	HIS
1	BA	138	ASN
1	BA	238	HIS
1	BA	256	ASN
1	BA	263	ASN
1	BA	288	HIS
1	BA	300	GLN
1	BA	454	ASN
1	BB	36	GLN
1	BB	74	ASN
1	BB	131	HIS
1	BB	138	ASN
1	BB	147	GLN
1	BB	238	HIS
1	BB	256	ASN
1	BB	263	ASN
1	BB	288	HIS
1	BB	300	GLN
1	BB	454	ASN
1	BC	36	GLN
1	BC	74	ASN
1	BC	131	HIS
1	BC	138	ASN
1	BC	147	GLN
1	BC	238	HIS
1	BC	256	ASN
1	BC	263	ASN
1	BC	288	HIS
1	BC	300	GLN
1	BC	454	ASN
1	BD	36	GLN
1	BD	74	ASN
1	BD	131	HIS

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Mol	Chain	Res	Type
1	BD	138	ASN
1	BD	147	GLN
1	BD	238	HIS
1	BD	256	ASN
1	BD	263	ASN
1	BD	288	HIS
1	BD	300	GLN
1	BD	454	ASN
1	BE	36	GLN
1	BE	74	ASN
1	BE	131	HIS
1	BE	138	ASN
1	BE	147	GLN
1	BE	238	HIS
1	BE	256	ASN
1	BE	263	ASN
1	BE	288	HIS
1	BE	300	GLN
1	BE	437	HIS
1	BE	454	ASN
1	BF	15	GLN
1	BF	36	GLN
1	BF	74	ASN
1	BF	131	HIS
1	BF	138	ASN
1	BF	147	GLN
1	BF	238	HIS
1	BF	256	ASN
1	BF	263	ASN
1	BF	288	HIS
1	BF	300	GLN
1	BF	437	HIS
1	BF	454	ASN
1	BG	15	GLN
1	BG	36	GLN
1	BG	74	ASN
1	BG	131	HIS
1	BG	138	ASN
1	BG	238	HIS
1	BG	256	ASN
1	BG	263	ASN
1	BG	288	HIS

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Mol	Chain	Res	Type
1	BG	300	GLN
1	BG	454	ASN
1	BH	15	GLN
1	BH	36	GLN
1	BH	74	ASN
1	BH	131	HIS
1	BH	138	ASN
1	BH	147	GLN
1	BH	238	HIS
1	BH	256	ASN
1	BH	263	ASN
1	BH	288	HIS
1	BH	454	ASN
1	BI	36	GLN
1	BI	74	ASN
1	BI	131	HIS
1	BI	138	ASN
1	BI	238	HIS
1	BI	256	ASN
1	BI	263	ASN
1	BI	288	HIS
1	BI	300	GLN
1	BI	454	ASN
1	BJ	36	GLN
1	BJ	74	ASN
1	BJ	131	HIS
1	BJ	138	ASN
1	BJ	147	GLN
1	BJ	238	HIS
1	BJ	256	ASN
1	BJ	263	ASN
1	BJ	288	HIS
1	BJ	454	ASN
1	BK	36	GLN
1	BK	74	ASN
1	BK	131	HIS
1	BK	138	ASN
1	BK	147	GLN
1	BK	238	HIS
1	BK	256	ASN
1	BK	263	ASN
1	BK	288	HIS

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Mol	Chain	Res	Type
1	BK	454	ASN
1	BL	15	GLN
1	BL	36	GLN
1	BL	74	ASN
1	BL	131	HIS
1	BL	138	ASN
1	BL	147	GLN
1	BL	238	HIS
1	BL	256	ASN
1	BL	263	ASN
1	BL	288	HIS
1	BL	300	GLN
1	BL	437	HIS
1	BL	454	ASN
1	BM	36	GLN
1	BM	74	ASN
1	BM	131	HIS
1	BM	138	ASN
1	BM	238	HIS
1	BM	256	ASN
1	BM	263	ASN
1	BM	288	HIS
1	BM	300	GLN
1	BM	454	ASN
1	BN	36	GLN
1	BN	74	ASN
1	BN	131	HIS
1	BN	138	ASN
1	BN	238	HIS
1	BN	256	ASN
1	BN	263	ASN
1	BN	288	HIS
1	BN	454	ASN
1	BO	15	GLN
1	BO	36	GLN
1	BO	74	ASN
1	BO	131	HIS
1	BO	138	ASN
1	BO	147	GLN
1	BO	238	HIS
1	BO	256	ASN
1	BO	263	ASN

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Mol	Chain	Res	Type
1	BO	288	HIS
1	BO	300	GLN
1	BO	437	HIS
1	BO	454	ASN
1	BP	36	GLN
1	BP	74	ASN
1	BP	131	HIS
1	BP	138	ASN
1	BP	147	GLN
1	BP	238	HIS
1	BP	256	ASN
1	BP	263	ASN
1	BP	288	HIS
1	BP	300	GLN
1	BP	437	HIS
1	BP	454	ASN
1	BQ	36	GLN
1	BQ	74	ASN
1	BQ	131	HIS
1	BQ	138	ASN
1	BQ	147	GLN
1	BQ	238	HIS
1	BQ	256	ASN
1	BQ	263	ASN
1	BQ	288	HIS
1	BQ	437	HIS
1	BQ	454	ASN
1	BR	36	GLN
1	BR	74	ASN
1	BR	131	HIS
1	BR	138	ASN
1	BR	147	GLN
1	BR	238	HIS
1	BR	256	ASN
1	BR	263	ASN
1	BR	288	HIS
1	BR	300	GLN
1	BR	437	HIS
1	BR	454	ASN
1	BS	36	GLN
1	BS	74	ASN
1	BS	131	HIS

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Mol	Chain	Res	Type
1	BS	138	ASN
1	BS	147	GLN
1	BS	238	HIS
1	BS	256	ASN
1	BS	263	ASN
1	BS	288	HIS
1	BS	300	GLN
1	BS	454	ASN
1	BT	36	GLN
1	BT	74	ASN
1	BT	131	HIS
1	BT	138	ASN
1	BT	147	GLN
1	BT	238	HIS
1	BT	256	ASN
1	BT	263	ASN
1	BT	288	HIS
1	BT	300	GLN
1	BT	454	ASN
1	CA	36	GLN
1	CA	74	ASN
1	CA	131	HIS
1	CA	138	ASN
1	CA	147	GLN
1	CA	238	HIS
1	CA	256	ASN
1	CA	263	ASN
1	CA	288	HIS
1	CA	454	ASN
1	CB	36	GLN
1	CB	74	ASN
1	CB	131	HIS
1	CB	138	ASN
1	CB	238	HIS
1	CB	256	ASN
1	CB	263	ASN
1	CB	288	HIS
1	CB	300	GLN
1	CB	454	ASN
1	CC	36	GLN
1	CC	74	ASN
1	CC	131	HIS

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Mol	Chain	Res	Type
1	CC	147	GLN
1	CC	238	HIS
1	CC	256	ASN
1	CC	263	ASN
1	CC	288	HIS
1	CC	300	GLN
1	CC	454	ASN
1	CD	36	GLN
1	CD	74	ASN
1	CD	131	HIS
1	CD	138	ASN
1	CD	147	GLN
1	CD	238	HIS
1	CD	256	ASN
1	CD	263	ASN
1	CD	288	HIS
1	CD	454	ASN
1	CE	36	GLN
1	CE	74	ASN
1	CE	131	HIS
1	CE	138	ASN
1	CE	238	HIS
1	CE	256	ASN
1	CE	263	ASN
1	CE	288	HIS
1	CE	454	ASN
1	CF	36	GLN
1	CF	74	ASN
1	CF	131	HIS
1	CF	138	ASN
1	CF	147	GLN
1	CF	238	HIS
1	CF	256	ASN
1	CF	263	ASN
1	CF	288	HIS
1	CF	300	GLN
1	CF	454	ASN
1	CG	36	GLN
1	CG	74	ASN
1	CG	131	HIS
1	CG	138	ASN
1	CG	147	GLN

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Mol	Chain	Res	Type
1	CG	238	HIS
1	CG	256	ASN
1	CG	263	ASN
1	CG	288	HIS
1	CG	300	GLN
1	CG	454	ASN
1	CH	15	GLN
1	CH	36	GLN
1	CH	74	ASN
1	CH	131	HIS
1	CH	138	ASN
1	CH	238	HIS
1	CH	256	ASN
1	CH	263	ASN
1	CH	288	HIS
1	CH	454	ASN
1	CI	36	GLN
1	CI	74	ASN
1	CI	131	HIS
1	CI	138	ASN
1	CI	147	GLN
1	CI	238	HIS
1	CI	256	ASN
1	CI	263	ASN
1	CI	288	HIS
1	CI	300	GLN
1	CI	437	HIS
1	CI	454	ASN
1	CJ	15	GLN
1	CJ	36	GLN
1	CJ	74	ASN
1	CJ	131	HIS
1	CJ	138	ASN
1	CJ	238	HIS
1	CJ	256	ASN
1	CJ	263	ASN
1	CJ	288	HIS
1	CJ	300	GLN
1	CJ	437	HIS
1	CJ	454	ASN
1	CK	36	GLN
1	CK	74	ASN

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Mol	Chain	Res	Type
1	CK	131	HIS
1	CK	138	ASN
1	CK	147	GLN
1	CK	238	HIS
1	CK	256	ASN
1	CK	263	ASN
1	CK	288	HIS
1	CK	454	ASN
1	CL	36	GLN
1	CL	74	ASN
1	CL	131	HIS
1	CL	138	ASN
1	CL	147	GLN
1	CL	238	HIS
1	CL	256	ASN
1	CL	263	ASN
1	CL	288	HIS
1	CL	454	ASN
1	CM	36	GLN
1	CM	74	ASN
1	CM	131	HIS
1	CM	138	ASN
1	CM	238	HIS
1	CM	256	ASN
1	CM	263	ASN
1	CM	288	HIS
1	CM	454	ASN
1	CN	36	GLN
1	CN	74	ASN
1	CN	131	HIS
1	CN	138	ASN
1	CN	147	GLN
1	CN	238	HIS
1	CN	256	ASN
1	CN	263	ASN
1	CN	288	HIS
1	CN	300	GLN
1	CN	454	ASN
1	CO	36	GLN
1	CO	74	ASN
1	CO	131	HIS
1	CO	138	ASN

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Mol	Chain	Res	Type
1	CO	147	GLN
1	CO	238	HIS
1	CO	256	ASN
1	CO	263	ASN
1	CO	288	HIS
1	CO	300	GLN
1	CO	454	ASN
1	CP	36	GLN
1	CP	74	ASN
1	CP	131	HIS
1	CP	138	ASN
1	CP	147	GLN
1	CP	238	HIS
1	CP	256	ASN
1	CP	263	ASN
1	CP	288	HIS
1	CP	300	GLN
1	CP	437	HIS
1	CP	454	ASN
1	CQ	36	GLN
1	CQ	74	ASN
1	CQ	131	HIS
1	CQ	138	ASN
1	CQ	147	GLN
1	CQ	238	HIS
1	CQ	256	ASN
1	CQ	263	ASN
1	CQ	288	HIS
1	CQ	300	GLN
1	CQ	454	ASN
1	CR	36	GLN
1	CR	74	ASN
1	CR	131	HIS
1	CR	138	ASN
1	CR	147	GLN
1	CR	238	HIS
1	CR	256	ASN
1	CR	263	ASN
1	CR	288	HIS
1	CR	300	GLN
1	CR	454	ASN
1	CS	36	GLN

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Mol	Chain	Res	Type
1	CS	74	ASN
1	CS	131	HIS
1	CS	138	ASN
1	CS	147	GLN
1	CS	238	HIS
1	CS	256	ASN
1	CS	263	ASN
1	CS	288	HIS
1	CS	454	ASN
1	CT	15	GLN
1	CT	36	GLN
1	CT	74	ASN
1	CT	131	HIS
1	CT	138	ASN
1	CT	147	GLN
1	CT	238	HIS
1	CT	256	ASN
1	CT	263	ASN
1	CT	288	HIS
1	CT	300	GLN
1	CT	437	HIS
1	CT	454	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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.